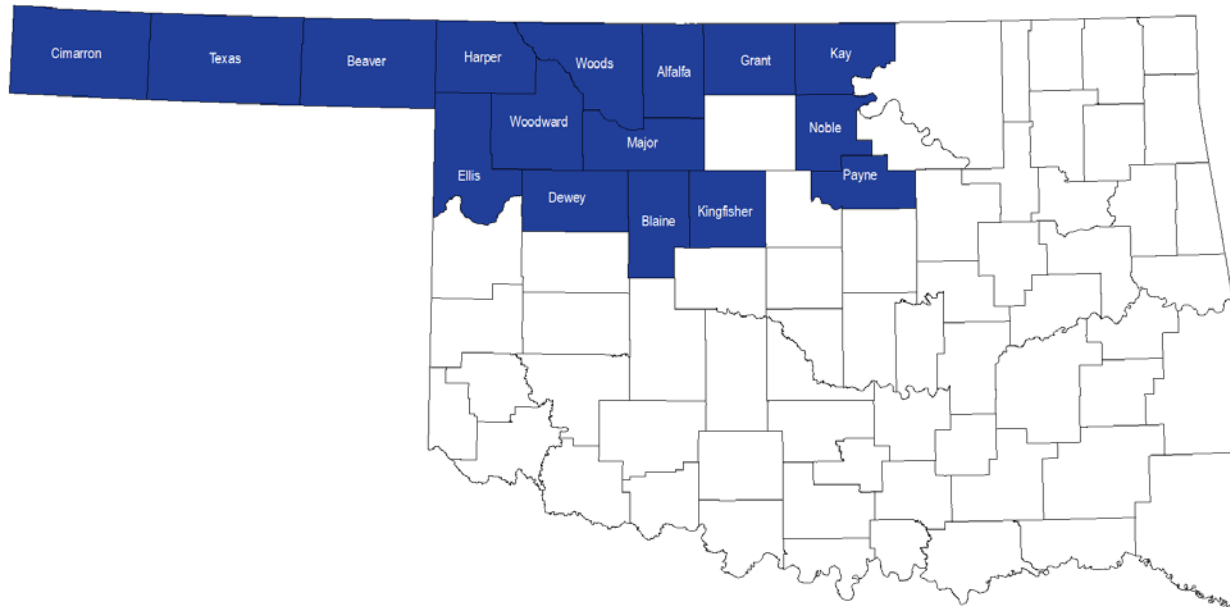


NORTHWEST NONMETROPOLITAN AREA



2023 LOCAL BRIEFING

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Introduction

The Northwest Nonmetropolitan Area is comprised of sixteen Oklahoma counties: Alfalfa, Beaver, Blaine, Cimarron, Dewey, Ellis, Grant, Harper, Kay, Kingfisher, Major, Noble, Payne, Texas, Woods, Woodward. According to the U.S. Census Bureau, this combined region of Oklahoma covers 19,398 square miles and is home to nearly 250,000 residents. Texas County, the largest county by land area in this region, constitutes 10.6 percent of the Northwest Area. Payne County, with 3.6 percent of the area, is the smallest county in the Northwest Area. The following reviews the population, education, labor force, top industries by total jobs, and staffing patterns of state key industry sectors.

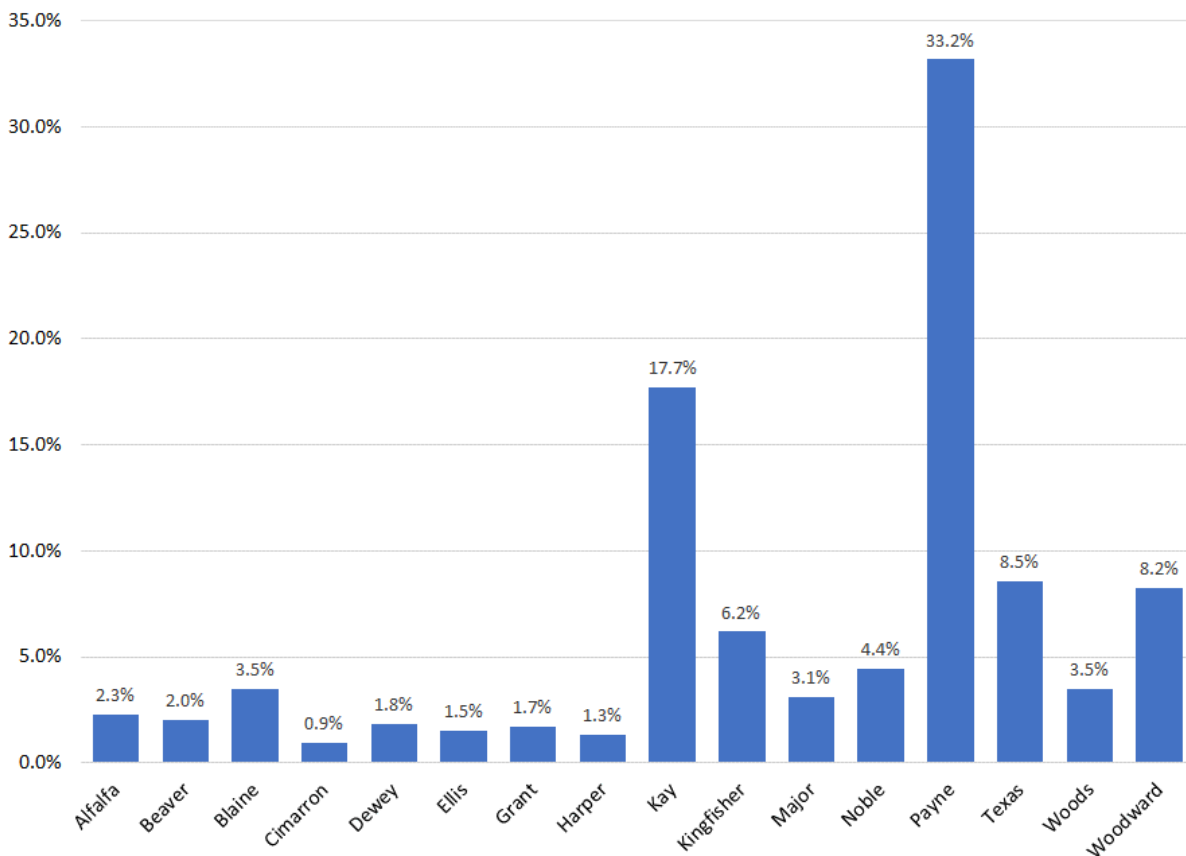
Population

Between 2017 and 2022, the population of the Northwest Nonmetropolitan Area declined by approximately 2.1 percent, from 252,679 to 247,452 or around 5,227 fewer people. However, the area is expected to grow by 2030 to an additional 6,403 people (2.6 percent). The following shows population figures and analyses by county, age, race, and ethnicity in the Northwest Area.

Population by County

Figure 1 shows the Northwest Nonmetropolitan Area population breakdown by county. Payne County had the largest population, representing 33.2 percent of the population in the Northwest Area. Kay County had the second largest population at 17.7 percent. Cimarron County had the smallest population, 2,272, which represents 0.9 percent of the population in the Northwest Area.

Figure 1: Population by County



Source: U.S. Census Bureau. American Community Survey (ACS), 2022 5-Year Estimates.

Table 1: Population by County

County	2017 Population	2022 Population	Total Change	Percent Change
Alfalfa County	5,877	5,683	-194	-3.3%
Beaver County	5,445	5,071	-374	-6.9%
Blaine County	9,680	8,661	-1,019	-10.5%
Cimarron County	2,221	2,272	51	2.3%
Dewey County	4,904	4,504	-400	-8.2%
Ellis County	4,102	3,755	-347	-8.5%
Grant County	4,458	4,152	-306	-6.9%
Harper County	3,843	3,272	-571	-14.9%
Kay County	45,173	43,859	-1,314	-2.9%
Kingfisher County	15,510	15,290	-220	-1.4%
Major County	7,730	7,678	-52	-0.7%
Noble County	11,421	10,981	-440	-3.9%
Payne County	80,634	82,058	1,424	1.8%
Texas County	21,409	21,144	-265	-1.2%
Woods County	9,132	8,661	-471	-5.2%
Woodward County	21,140	20,411	-729	-3.4%
Total	252,679	247,452	-5,227	-2.1%

Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

Table 2: Projected Population by County

County	2020 Population	2030 Population	Total Change	Percent Change
Alfalfa County	5,699	6,047	348	6.1%
Beaver County	5,049	5,211	162	3.2%
Blaine County	8,735	8,137	-598	-6.8%
Cimarron County	2,296	1,987	-309	-13.5%
Dewey County	4,484	5,067	583	13.0%
Ellis County	3,749	3,833	84	2.2%
Grant County	4,169	4,387	218	5.2%
Harper County	3,272	3,737	465	14.2%
Kay County	43,700	41,769	-1,931	-4.4%
Kingfisher County	15,184	16,619	1,435	9.5%
Major County	7,782	8,153	371	4.8%
Noble County	10,924	10,929	5	0.0%
Payne County	81,646	86,914	5,268	6.5%
Texas County	21,384	20,456	-928	-4.3%
Woods County	8,624	9,613	989	11.5%
Woodward County	20,470	20,711	241	1.2%
Total	247,167	253,570	6,403	2.6%

Source: Oklahoma Department of Commerce. Oklahoma Population Projections, 2020-2070, March 2023.

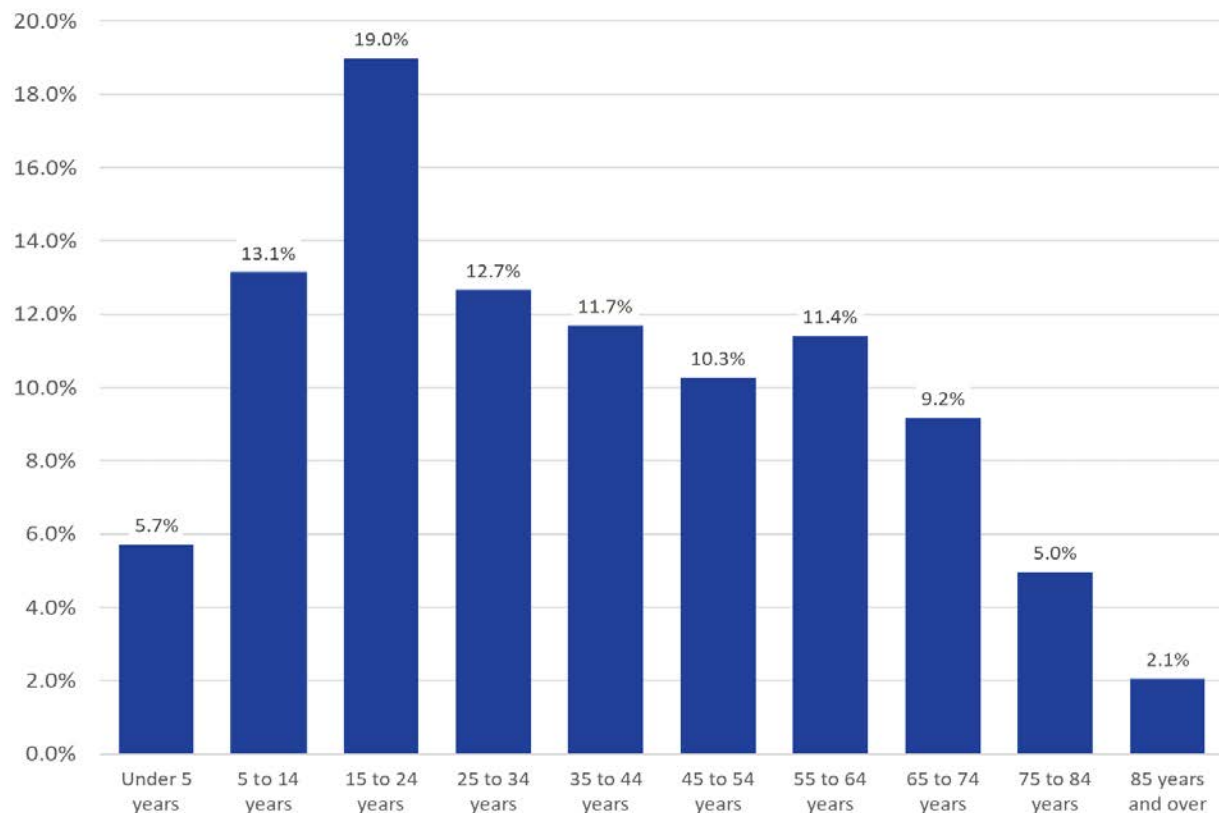
Table 1, on the previous page, provides the change in the Northwest Nonmetropolitan Area population by county from 2017 to 2022. During this period, all but two counties (Payne and Cimarron) declined in population. Payne County added the most people during this period with an additional 1,424 (1.8 percent) people in 2022. Cimarron County added at 51 people (2.3 percent). Kay County lost the most people at 1,314 (2.9 percent).

Table 2, on the previous page, shows the Northwest Nonmetropolitan Area projected population change from 2020 to 2030 by county. During this period, a majority of counties in the Northwest Area are projected to grow in population. Payne County is projected to have the largest increase in population, 5,268 (6.5 percent) additional people by 2030. Kingfisher County is projected to add the second largest number of people at 1,435 (9.5 percent). However, the population of some counties will shrink. The population in Kay County is projected to decline the most, losing 1,931 people (4.4 percent).

Population by Age

Figure 2 below shows the population by age in the Northwest Area. In 2022, the 15-to-24 and 5- to 14-year-old age groups represented the largest age groups in the Northwest Area at 19.0 percent and 13.1 percent respectively. The next largest age groups were the 25-to-34-year-old and 35- to 44-year-old groups at 12.7 percent and 11.7 percent. Those aged 85 and over represented the smallest age group in Northwest Area at 2.1 percent.

Figure 2: Population by Age



Source: U.S. Census Bureau. American Community Survey (ACS), 2022 5-Year Estimates.

Table 3, on the next page, provides the population change in the Northwest Nonmetropolitan Area by age group from 2017 to 2022. During this period, most age groups declined in population. In particular, the 45- to 54-year-old age group lost the most people at 3,113 (-10.9 percent), while under 5-year-olds were next at 2,216 people (-13.6 percent). Alternatively, the population of some age groups increased. The 65-to 74-year-old age group added the most at 1,935 (9.3 percent) people in the last 5 years, followed by 35- to 44-year-olds at 1,016 (3.6 percent).

Table 3: Population by Age

Age	2017 Population	2022 Population	Total Change	Percent Change
Under 5 years	16,326	14,110	-2,216	-13.6%
5 to 14 years	32,987	32,498	-489	-1.5%
15 to 24 years	46,315	46,936	621	1.3%
25 to 34 years	32,739	31,327	-1,412	-4.3%
35 to 44 years	27,914	28,930	1,016	3.6%
45 to 54 years	28,500	25,387	-3,113	-10.9%
55 to 64 years	29,751	28,233	-1,518	-5.1%
65 to 74 years	20,737	22,672	1,935	9.3%
75 to 84 years	12,673	12,270	-403	-3.2%
85 years and over	4,737	5,089	352	7.4%
Total	252,679	247,452	-5,227	-2.1%

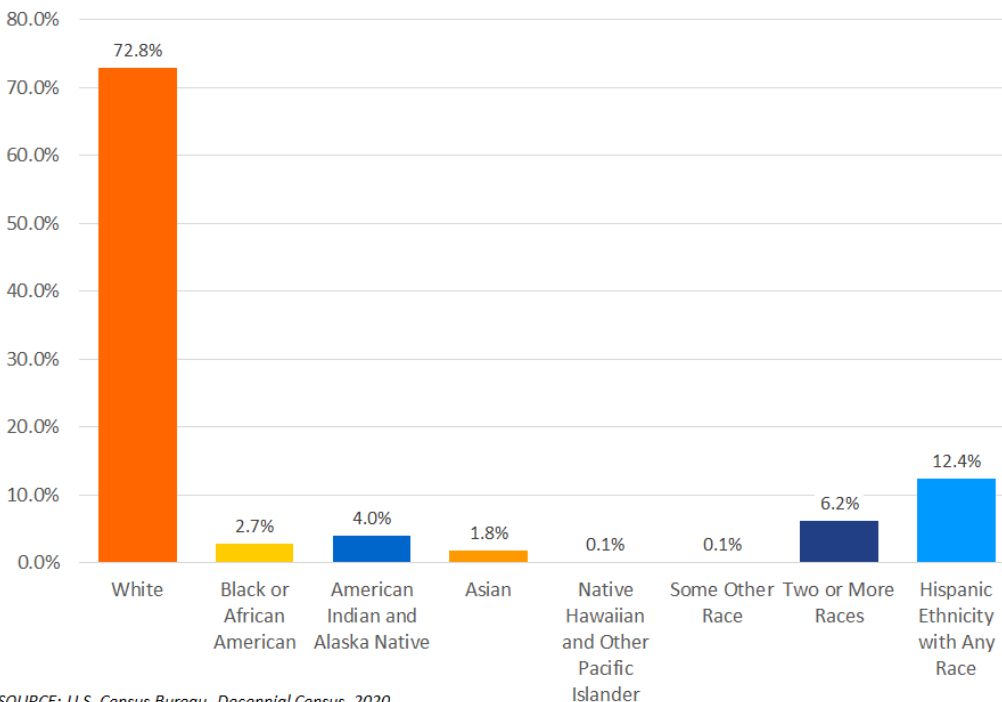
Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

Population by Race and Ethnicity

The following analyses uses the racial and ethnicity categories designated by the U.S. Census Bureau which categorizes “Hispanic Origin” as an ethnicity rather than a race. People who identify as Hispanic, Latino, or Spanish may be any race. As such, Hispanic is always reported in conjunction with another racial designator, i.e., “Black or African American, Hispanic.” Unless otherwise noted, individual races included in this briefing section were reported as non-Hispanic.

Figure 3, below, summarizes the Northwest Nonmetropolitan Area population by race and ethnicity in 2020. White made up the largest percentage of the population at 72.8 percent. Hispanic Ethnicity with Any Race was the second largest percentage of the population at 12.4 percent. Native Hawaiians or Pacific Islanders were the smallest percentage of the population at 0.1 percent.

Figure 3: Population by Race and Ethnicity



SOURCE: U.S. Census Bureau, Decennial Census, 2020.

Table 4, below, provides the population change by demographic group for the Northwest Nonmetropolitan Area from 2017 to 2022. During this period, most demographic groups grew in population. Two or More Races and Hispanic Ethnicity with Any Race added the most population during this period at 2,630 (20.8 percent) and 2,539 (9.1 percent) additional people by 2022, respectively. Overall, the population of the Northwest Area shrunk in size. The White segment of the population declined the most, losing 10,598 people (-5.6 percent) during this period.

Table 4: Population by Race and Ethnicity

Demographic	2017 Population	2022 Population	Total Change	Percent Change
White	190,847	180,249	-10,598	-5.6%
Black or African American	6,106	6,722	616	10.1%
American Indian and Alaska Native	10,165	9,778	-387	-3.8%
Asian	4,655	4,337	-318	-6.8%
Native Hawaiian and Other Pacific Islander	84	147	63	75.0%
Some Other Race	141	369	228	161.7%
Two or More Races	12,653	15,283	2,630	20.8%
Hispanic Ethnicity with Any Race	28,028	30,567	2,539	9.1%
Total	252,679	247,452	-5,227	-2.1%

Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

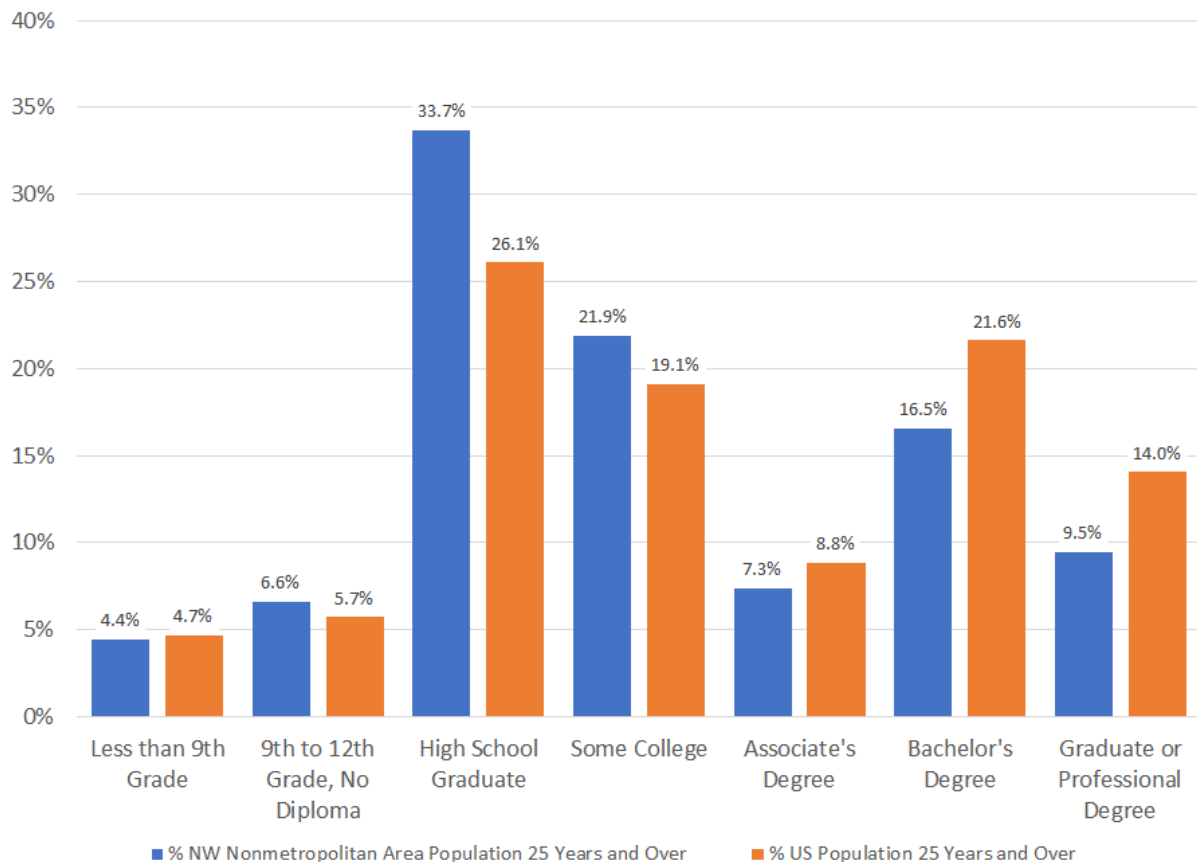
Education

Colleges, universities, career technology centers, and K-12 schools are instrumental in developing the workforce. Educational institutions help supply local businesses and organizations with a workforce with the necessary education and skills to be competitive in today's economy. The following section reviews the Northwest Nonmetropolitan Area's educational attainment and provides an educational attainment mismatch analysis and details the area's educational assets.

Educational Attainment

Figure 4 below compares the Northwest Nonmetropolitan Area's educational attainment levels with the United States educational attainment levels in 2022. In the Northwest Area, High School Graduates made up the largest share of the population at 33.7 percent. This was 7.6 percentage points higher than the U.S. average of 26.1 percent. The second largest share of the population was Some College at 21.9 percent. Those with less than 9th grade educational attainment represented the smallest group at 4.4 percent, 0.3 percentage point below the national average.

Figure 4: Educational Attainment



Source: U.S. Census Bureau. American Community Survey (ACS), 2022 5-Year Estimates.

Table 5, on the next page, provides the change in educational attainment levels in the Northwest Nonmetropolitan Area from 2017 to 2022. By 2022, those with an Associate's Degree grew the most during this period, adding 888 more people, followed by High School Graduate with an additional 763 people. Alternatively, 3,212 fewer people had an education level of less than High School Graduate by 2022.

Table 5: Educational Attainment

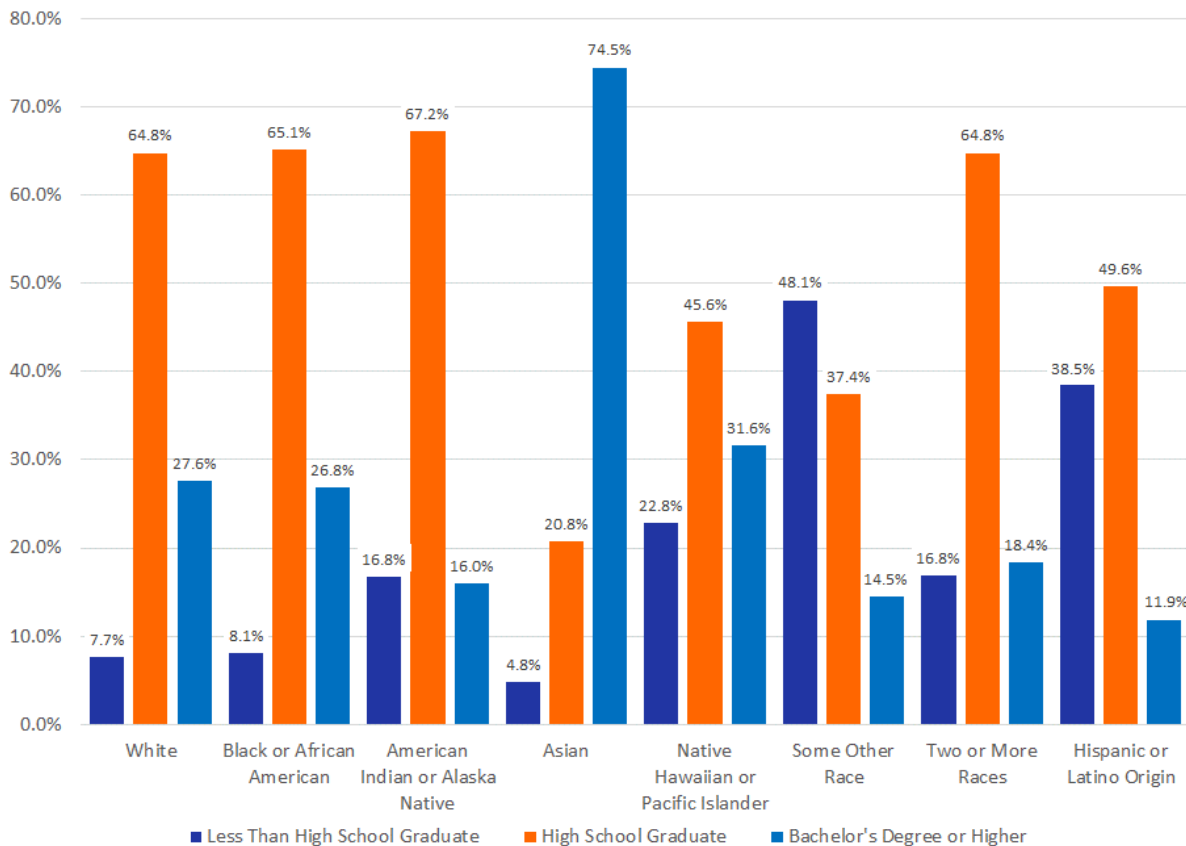
Educational Attainment	2017 Population	2022 Population	Total Change	Percent Change
Less than 9th Grade	7,644	6,834	-810	-10.6%
9th to 12th Grade, No Diploma	12,606	10,204	-2,402	-19.1%
High School Graduate	51,072	51,835	763	1.5%
Some College	35,117	33,690	-1,427	-4.1%
Associate's Degree	10,423	11,311	888	8.5%
Bachelor's Degree	26,082	25,464	-618	-2.4%
Graduate or Professional Degree	14,107	14,570	463	3.3%
Total	157,051	153,908	-3,143	-2.0%

Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

Educational Attainment by Race and Ethnicity

Figure 5 below shows the Northwest Nonmetropolitan Area’s education attainment levels by race and ethnicity in 2022. High School Graduate represented the largest percentage with the exception of Asian and Some Other Race. Asians highest educational attainment was Bachelor’s Degree or Higher (74.5 percent), while Some Other Race had 48.1 percent Less Than High School Graduate.

Figure 5: Educational Attainment by Race and Ethnicity

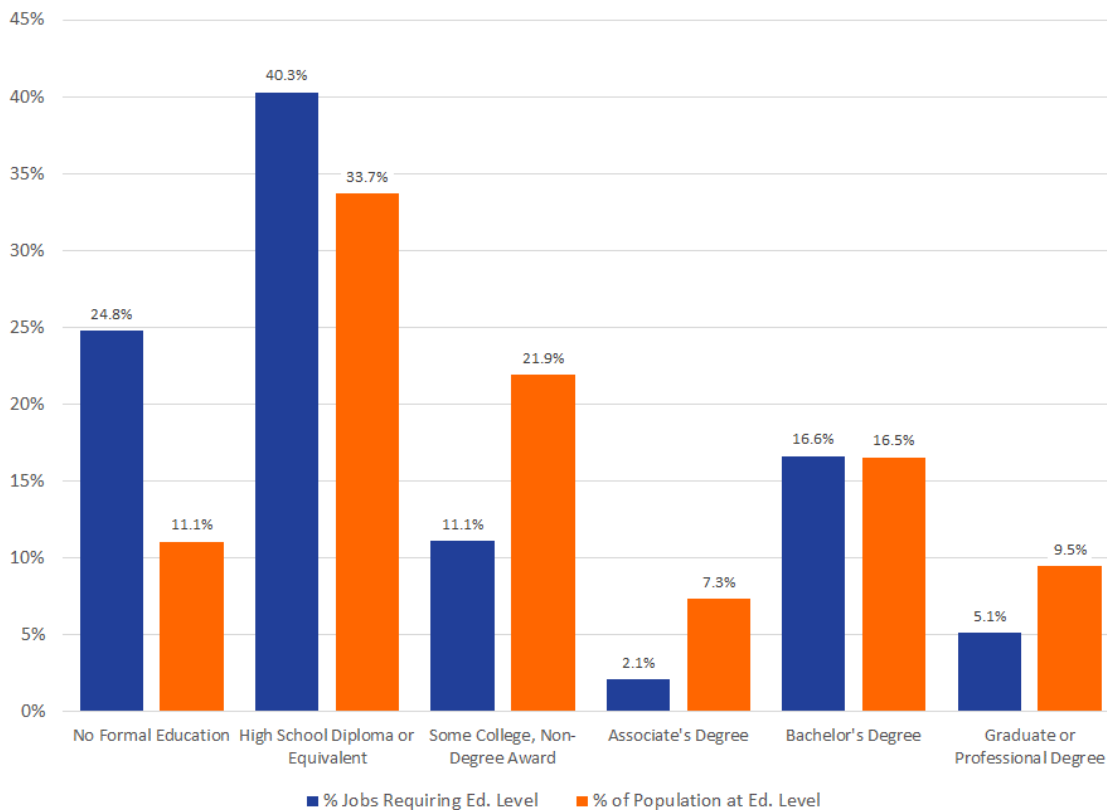


Source: U.S. Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates.

Educational Attainment Mismatch

Figure 6 below shows an educational attainment mismatch analysis for the Northwest Nonmetropolitan Area.¹ This compares the typical education required for jobs to the educational attainment of the population in 2022. In 2022, approximately 24.8 percent of jobs in the Northwest Area required no formal education while just 11.1 percent of the population have an education at this level. This suggests that many of these jobs may be filled by those with an education level beyond what is required. At the High School Diploma level, 40.3 percent of jobs in the Northwest Area require this level of education while 33.7 percent of the population have this level of education. The percent of population with Some College, Non-Degree Award was 21.9 percent, while just 11.1 percent of jobs required this level of education, suggesting underemployment. At the Bachelor's Degree level, 16.5 percent of the population hold the degree while 16.6 percent of jobs require it. For those with a Graduate Degree or Higher, 9.5 percent of the population is prepared for 5.1 percent of the jobs in the market.

Figure 6: Educational Attainment Mismatch



Source: U.S. Census Bureau. American Community Survey (ACS) 2021 5-Year Estimates.

Educational Assets

The Northwest Nonmetropolitan Area has 10 distinct post-secondary educational institutions, ranging from universities, technical colleges, community colleges, and specialty training schools. These institutions are important educational and professional assets as they help connect students of all backgrounds and circumstances with resources, degrees, certifications, and higher knowledge. Table 8 in the Appendix details accredited institutions and their programs of study.

¹ The educational attainment mismatch analysis, formerly known as skills gaps analysis, is attained by comparing the working age (25 years and older) population's educational attainment and typical entry level education for the total number of jobs. The analysis does not account for individuals' actual educational attainment and their current employment. The analysis compares American Community Survey data from the Census Bureau with occupation data from the Bureau of Labor Statistics.

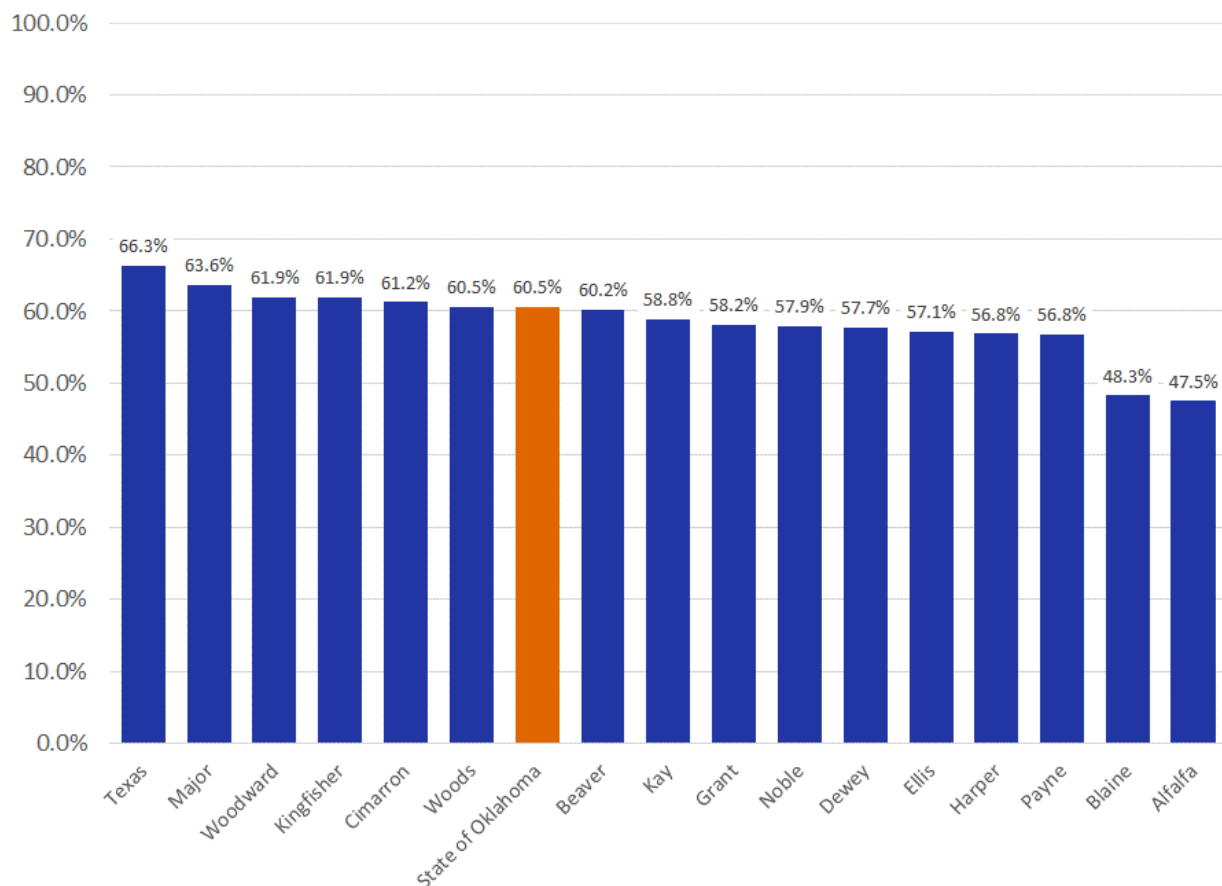
Labor Force

The labor force may be considered one of the foremost assets of a particular region, providing key goods and services, collaborating across industries, and participating in economic and skills development. The following section reviews the Northwest Nonmetropolitan Area's labor force participation rates broken down by county, median earnings, as well as commuter data detailing inflow, outflow, and circulation.

Labor Force Participation by County

Figure 7 shows the Northwest Nonmetropolitan Area labor force participation rate (LFPR) by county. In 2022, six of the sixteen counties in the Northwest Area met or exceeded the Oklahoma state average LFPR of 60.5 percent. The highest LFPR was in Texas County at 66.3 percent. The second highest was in Major County at 63.6 percent. Kingfisher County and Woodward County tied for the third highest at 61.9 percent. The lowest percentage was in Alfalfa County at 47.5 percent.

Figure 7: Labor Force Participation by County, 2022



Source: U.S. Census Bureau. American Community Survey (ACS), 2022 5-Year Estimates.

Table 6, below, shows the labor force participation rate for the Northwest Nonmetropolitan Area from 2021 to 2022. During this period, eight of the counties in the Northwest Area had declining labor force participation rates. This follows the general decline of the state's LFPR at -0.3 percent since 2021. Woodward County's LFPR grew during this period at an additional 2.0 percentage points, while Texas County's rate decreased the most by 4.1 percentage points.

Table 6: Labor Force Participation by County

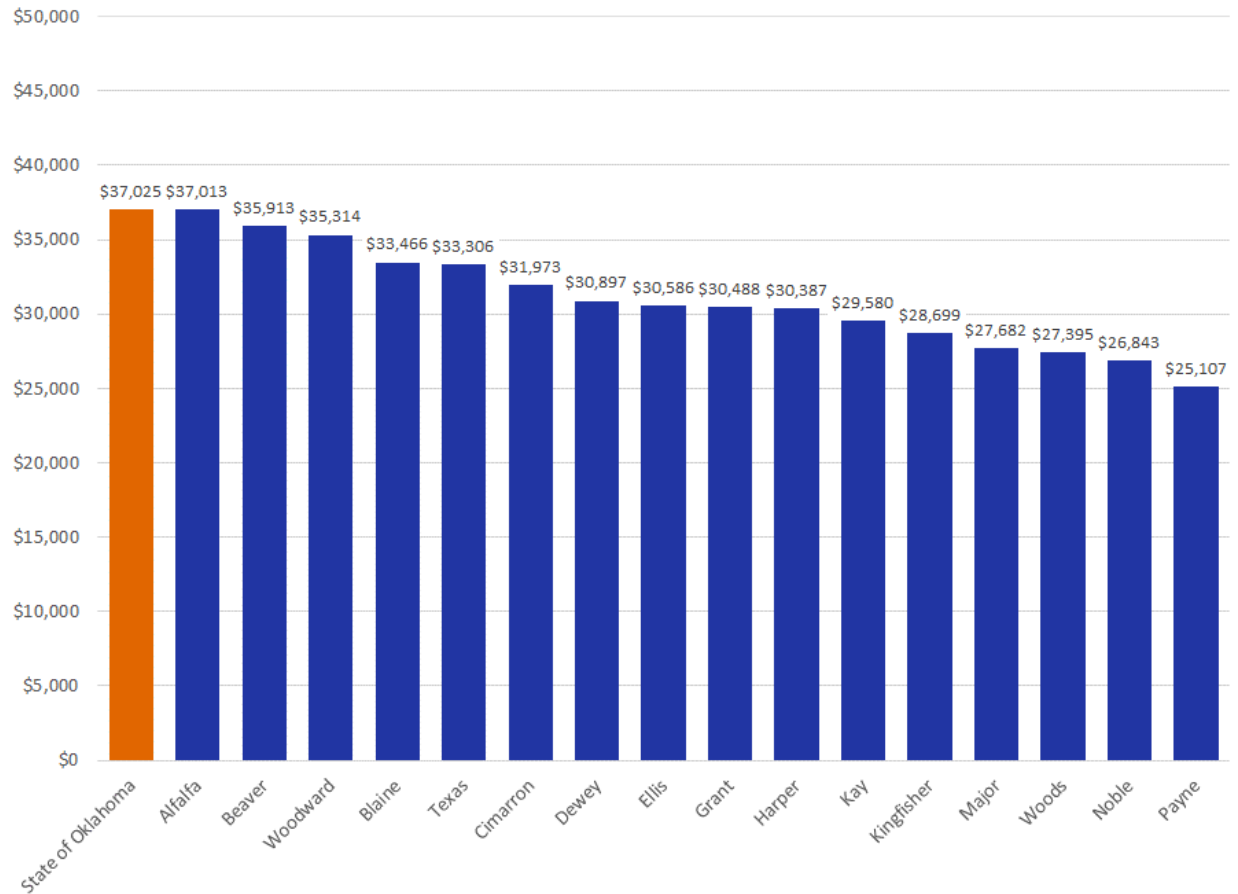
Area	LFPR 2021	LFPR 2022	Total Change
State of Oklahoma	60.8%	60.5%	-0.3%
Alfalfa County	47.8%	47.5%	-0.4%
Beaver County	62.2%	60.2%	-2.1%
Blaine County	47.5%	48.3%	0.8%
Cimarron County	61.7%	61.2%	-0.5%
Dewey County	57.3%	57.7%	0.5%
Ellis County	57.0%	57.1%	0.1%
Grant County	60.6%	58.2%	-2.4%
Harper County	55.4%	56.8%	1.4%
Kay County	58.4%	58.8%	0.4%
Kingfisher County	61.7%	61.9%	0.2%
Major County	63.7%	63.6%	-0.1%
Noble County	57.1%	57.9%	0.8%
Payne County	57.5%	56.8%	-0.7%
Texas County	70.4%	66.3%	-4.1%
Woods County	62.7%	60.5%	-2.2%
Woodward County	59.9%	61.9%	2.0%

Source: U.S. Census Bureau. American Community Survey (ACS), 5-Year Estimates.

Median Earnings

Figure 8, below, provides the median earnings of those that are over the age of 16 for each of the Northwest Nonmetropolitan Area's counties compared to the State of Oklahoma in 2022. Overall, none of the sixteen Northwest Area's counties met or exceeded the median earnings found at the state level of \$37,025. The highest earnings were found in Alfalfa County at \$37,013. The second highest median earnings were in Beaver County at \$35,913. The third highest were in Woodward County at \$35,314. The lowest median earnings were in Payne County at \$25,107.

Figure 8: Median Earnings by County

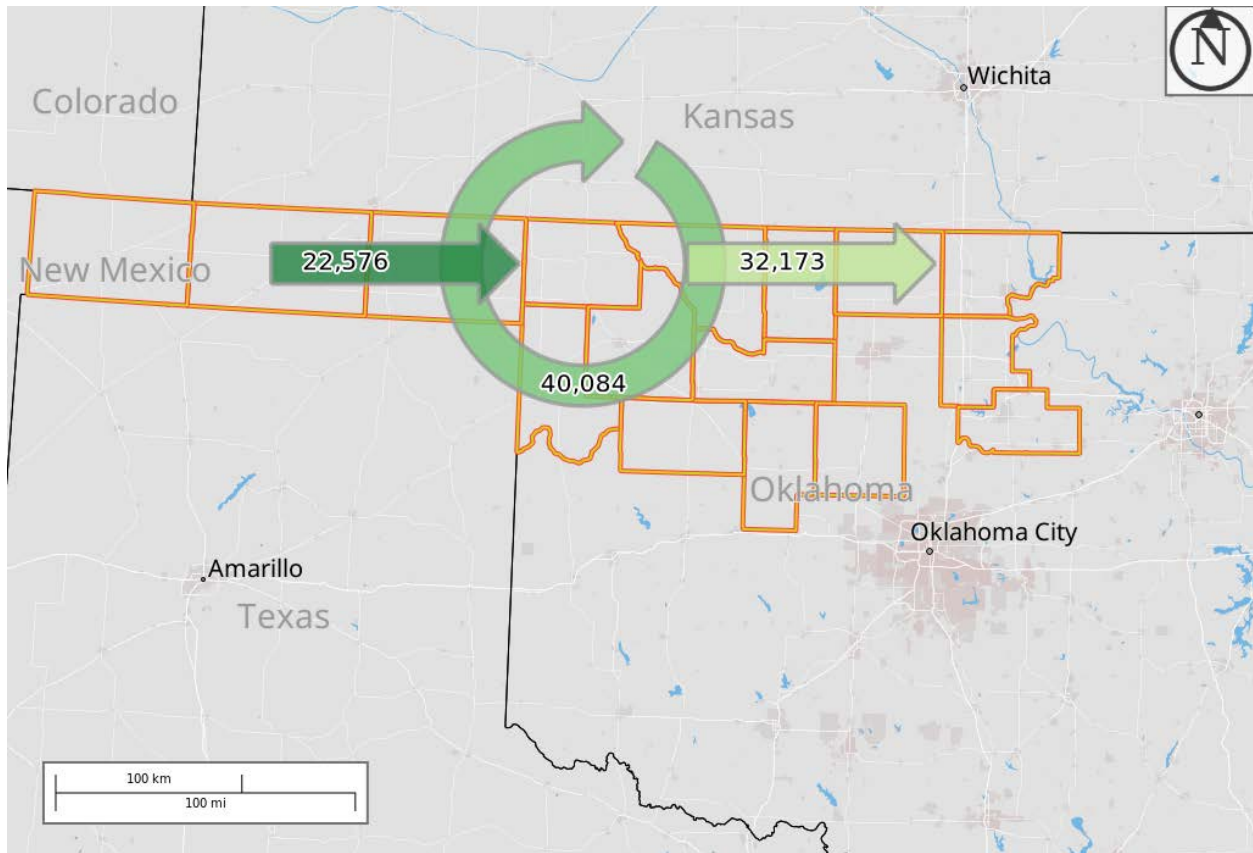


SOURCE: U.S. Census Bureau, 2018-2022 American Community Survey 5-Year Estimates

Commuter Data

The U.S. Census Bureau Longitudinal Employer-Household Dynamics (LEHD) program uses data from a variety of sources including the unemployment insurance program, Quarterly Census of Employment and Wages (QCEW), and administrative data from censuses and surveys to create models estimating worker commutes for primary employment. In 2021, 22,576 people (36.0 percent) worked in the Northwest Area and did not live there, 40,084 lived and worked in the Northwest Area, and 32,173 (44.5 percent) lived in the Northwest Area and worked outside the area. See Figure 9 below.

Figure 9: Commuter Patterns



Source: U.S. Census Bureau, Longitudinal-Employer Household Dynamics Program (LEHD), 2021, <https://onthemap.ces.census.gov>.

Top Industries by Total Jobs

The North American Industry Classification System (NAICS) is the standard utilized by federal agencies to classify businesses to collect, analyze, and publish statistical data related to the United States business economy. Several of the analyses that follow are based upon data using NAICS employment sector codes. The following information is provided to enhance understanding of the framework of these analyses.

NAICS uses a 6-digit coding system which is structured hierarchically, beginning with 20 broad economic sectors. Over 1,000 industries are then sub-categorized within these 20 sectors. Each industry within a sector shares distinguishing economic activities. The most recent version of the classification system was implemented in 2017. Additional information is available at: www.census.gov/eos/www/naics.

Table 7, below, shows the top ten industries in the Northwest Nonmetropolitan Area by the total number of jobs in 2022. There were an estimated 84,239 total jobs in the Northwest Area in 2022. The largest sector was Government with 14,237 jobs. The second largest sector was Retail Trade with 11,244. The tenth largest sector was Transportation and Warehousing with 2,146 jobs. Together, these industries made up 71.8% percent of the total jobs in the area.

Table 7: Top Industries by Total Jobs

NAICS Code	Industry Description	2022 Jobs	Percentage of Total Employment
90	Government*	14,237	16.9%
44-45	Retail Trade*	11,244	13.3%
72	Accommodation and Food Services*	8,358	9.9%
62	Health Care and Social Assistance*	5,965	7.1%
31-33	Manufacturing*	5,478	6.5%
23	Construction*	4,244	5.0%
21	Mining, Quarrying, and Oil and Gas Extraction*	4,175	5.0%
56	Administrative and Support and Waste Management*	2,407	2.9%
11	Agriculture, Forestry, Fishing and Hunting*	2,233	2.7%
48-49	Transportation and warehousing*	2,146	2.5%

*Data for at least one county in the region does not meet BLS disclosure requirements and is not included in the statistics listed above.

SOURCE: Quarterly Census of Employment and Wages (QCEW), Bureau of Labor Statistics.

Key Sectors

This section will provide both data and analysis of key industries and occupations in Oklahoma using official labor market statistics from the Oklahoma Employment Security Commission (OESC), the U.S. Bureau of Labor Statistics (BLS), and the Census Bureau.

It is well understood that some industries are more heavily concentrated in some geographic areas than in others as individual firms have realized advantages in being close to competitors, customers, supply chain sources, etc... Knowing this, policy makers can profit by understanding the long-standing (and perhaps even the emerging) economic geography of their state and sub-state regions. Using location quotients, we can identify those industries and occupation that already exist and are thriving within our state.

Utilizing 4-digit NAICS codes we have identified industries with at least 500 employees within the private and federal government sectors that have an employment concentration that is at least twice that of the nation. Table 9 in the Appendix outlines the top 4-digit NAICS industries in Oklahoma based on location quotients.

Key Occupations

Table 10 in the Appendix shows similar employment concentration data but from an occupational perspective. Here we are illustrating occupations that have LQs of at least 3.0 and at least 100 employees.

Long Term Industry and Occupational Employment Projections

Next, we transition to looking at the industry and occupational projections produced by the OESC's Economic Research & Analysis division in partnership with the U.S. Department of Labor (see Tables 11 and 12 in the Appendix). These data products are produced every-other year in accordance with national standards. They provide labor market participants with an informed guide of how current trends may play out over the next decade.

Summary

This local briefing reviewed the Northwest Nonmetropolitan Area's population, educational attainment and assets, labor force information, top industry data, and target and complementary sectors. The Northwest Nonmetropolitan Area is comprised of sixteen counties in Oklahoma. The Oklahoma Employment Security Commission prepares briefings for each of the Metropolitan Statistical Areas and four Nonmetropolitan Areas, including a state-level briefing.

Table 8: Educational Assets

Institution Name	Institution Type	City	County	Area	Degree Types
Central Technology Center	Technical School	Drumright	Payne	Northwest	Certificate
Chisholm Trail Technology Center	Technical School	Omega	Kingfisher	Northwest	Certificate
High Plains Technology Center	Technical School	Woodward	Woodward	Northwest	Certificate
Northern Oklahoma College	Public	Stillwater	Payne	Northwest	Associate, Certificate
Northern Oklahoma College	Public	Tonkawa	Kay	Northwest	Associate, Certificate
Northwestern Oklahoma State University	Public	Alva	Woods	Northwest	Bachelor, Master, Ph.D.
Northwestern Oklahoma State University	Public	Woodward	Woodward	Northwest	Bachelor, Master, Ph.D.
Oklahoma Panhandle State University	Public	Goodwell	Texas	Northwest	Associate, Bachelor, Certificate
Oklahoma State University	Public	Stillwater	Payne	Northwest	Bachelor, Master, Ph.D.
University Center at Ponca City	Public	Ponca City	Kay	Northwest	Associate, Bachelor, Master, Ph.D.

SOURCE: Oklahoma State Regents of Higher Education, CareerTech.org.

Key Industries

Table 9: Industry Location Quotients (LQ)

NAICS Code	Industry	2022 Average Employment	2022 Average Annual Earnings	Employment LQ
Aerospace and Defense Industries				
3329	Other Fabricated Metal Product Manufacturing - Federal Government	1,634	\$67,581	39.24
9281	National Security and International Affairs	21,590	\$79,377	3.38
3364	Aerospace Product and Parts Manufacturing	11,690	\$96,525	2.16
6211	Offices of Physicians - Federal Government	693	\$91,330	2.56
Energy Industries				
4869	Other Pipeline Transportation	1,275	\$156,838	14.47
2111	Oil and Gas Extraction	11,965	\$159,860	9.8
4862	Pipeline Transportation of Natural Gas	2,248	\$118,726	6.58
2131	Support Activities for Mining	16,315	\$84,665	5.75
Agribusiness and Biosciences Industries				
1122	Hog and Pig Farming	1,636	\$49,110	5.21
4245	Farm Product Raw Material Merchant Wholesalers	1,960	\$39,219	2.59
3111	Animal Food Manufacturing	1,851	\$64,187	2.39
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	870	\$114,517	2.14
3116	Animal Slaughtering and Processing	11,834	\$49,125	2.06
Manufacturing Industries				
3334	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing	6,429	\$58,148	4.18
3324	Boiler, Tank, and Shipping Container Manufacturing	4,094	\$76,039	4.11
3274	Lime and Gypsum Product Manufacturing	607	\$68,555	3.62
3262	Rubber Product Manufacturing	4,931	\$70,199	3.39
3331	Agriculture, Construction, and Mining Machinery Manufacturing	7,493	\$72,907	3.27
3312	Steel Product Manufacturing from Purchased Steel	1,567	\$73,056	2.58
3221	Pulp, Paper, and Paperboard Mills	2,385	\$80,124	2.49
3352	Household Appliance Manufacturing	1,785	\$47,029	2.37
3271	Clay Product and Refractory Manufacturing	926	\$53,039	2.35

Source: Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW).

Key Occupations

Table 10: Employment Location Quotients (LQ)

SOC Code	Occupational Title	2022 Employment	2022 Annual Average Wage	Employment LQ
33-9031	Gambling Surveillance Officers and Gambling Investigators	1,700	\$31,310	14.94
47-5012	Rotary Drill Operators, Oil and Gas	1,770	\$56,380	13.37
43-3041	Gambling Cage Workers	1,310	\$25,740	10.27
41-2012	Gambling Change Persons and Booth Cashiers	1,870	\$26,400	9.16
47-5032	Explosives Workers, Ordnance Handling Experts, and Blasters	420	\$50,890	8.18
47-5071	Roustabouts, Oil and Gas	3,370	\$44,660	7.94
47-5013	Service Unit Operators, Oil and Gas	2,730	\$56,330	6.92
17-2171	Petroleum Engineers	1,470	\$144,160	6.62
17-2021	Agricultural Engineers	110	\$62,890	6.56
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	2,050	\$83,850	6.01
47-5081	Helpers--Extraction Workers	420	\$50,350	5.6
11-9071	Gambling Managers	270	\$66,670	5.15
49-9043	Maintenance Workers, Machinery	3,500	\$57,840	5.14
49-9081	Wind Turbine Service Technicians	540	\$53,870	5.03
49-3011	Aircraft Mechanics and Service Technicians	6090	\$75,590	4.18
19-4043	Geological Technicians, Except Hydrologic Technicians	400	\$73,300	4.05

Key Occupations

Table 10: Employment Location Quotients (LQ)

SOC Code	Occupational Title	2022 Employment	2022 Annual Average Wage	Employment LQ
47-5011	Derrick Operators, Oil and Gas	470	\$54,200	3.94
53-7073	Wellhead Pumpers	580	\$59,810	3.68
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1400	\$31,190	3.62
45-2011	Agricultural Inspectors	540	\$42,820	3.56
29-9021	Health Information Technologists and Medical Registrars	1340	\$49,340	3.49
39-1013	First-Line Supervisors of Gambling Services Workers	830	\$44,000	3.49
47-5051	Rock Splitters, Quarry	140	\$30,640	3.3
43-4141	New Accounts Clerks	1,610	\$37,320	3.28
51-8092	Gas Plant Operators	480	\$70,670	3.09

Source: Bureau of Labor Statistics, Occupational Employment and Wage Statistics (OEWS).

Industry and Occupational Employment Projections

Table 11: 2020-2030 Northwest Nonmetropolitan Area Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Numeric Change	Percent Change
000000	Total All Industries	98,770	108,200	9,430	9.6%
000670	Self Employed and Unpaid Family Workers, All Jobs	4,350	4,370	20	0.4%
110000	Agriculture, Forestry, Fishing and Hunting	*	*	*	*
210000	Mining	*	*	*	*
220000	Utilities	*	*	*	*
230000	Construction	4,950	5,160	210	0.4%
310000	Manufacturing	9,570	9,680	110	0.1%
420000	Wholesale Trade	2,480	2,740	260	1.0%
440000	Retail Trade	10,950	11,030	80	0.1%
480000	Transportation and Warehousing	*	*	*	*
510000	Information	1,130	1,260	120	1.0%
520000	Finance and Insurance	2,640	2,640	0	0.0%
530000	Real Estate and Rental and Leasing	820	820	0	0.0%
540000	Professional, Scientific, and Technical Services	2,330	2,840	510	2.0%
550000	Management of Companies and Enterprises	1,430	1,460	30	0.2%
560000	Administrative and Support and Waste Management and Remediation Services	2,760	3,040	280	1.0%
610000	Educational Services	14,790	15,990	1,200	0.8%
620000	Health Care and Social Assistance	9,360	10,860	1,490	1.5%
710000	Arts, Entertainment, and Recreation	1,780	2,590	800	3.8%
720000	Accommodation and Food Services	8,540	10,540	2,000	2.1%
810000	Other Services (except Government)	1,870	2,130	260	1.3%
910000	Total Federal Government Employment	900	800	-100	-1.2%
999200	State Government, Excluding Education and Hospitals	1,780	1,910	130	0.7%
999300	Local Government, Excluding Education and Hospitals	6,270	6,350	80	0.1%

Source: Employment Projections (EP) program, Oklahoma Employment Security Commission, Economic Research & Analysis Division, [Industry and Occupational Employment Projections \(oklahoma.gov\)](https://www.oklahoma.gov/industry-and-occupational-employment-projections).

Industry and Occupational Employment Projections

Table 12: 2020-2030 Northwest Nonmetropolitan Area Occupational Employment Projections

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
00-0000	Total, All Occupations	98,770	108,200	9,430	9.55	123940	35580			
11-1011	Chief Executives	220	200	-10	-6.51	130	100940	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	1,510	1,700	190	12.72	1,510	79860	Bachelor's degree	5 years or more	None
11-1031	Legislators	90	100	10	5.56	70	*	Bachelor's degree	Less than 5 years	None
11-2022	Sales Managers	50	60	10	11.32	50	109470	Bachelor's degree	Less than 5 years	None
11-3010	Administrative Services and Facilities Managers	390	420	30	8.76	350	78090	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	130	150	20	14.62	120	103650	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	300	350	60	18.86	290	104790	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	130	130	0	3.08	90	97060	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	70	70	10	9.09	60	99290	High school diploma or equivalent	5 years or more	None
11-3121	Human Resources Managers	70	80	10	14.08	70	90350	Bachelor's degree	5 years or more	None
11-9021	Construction Managers	320	360	40	11.15	280	87400	Bachelor's degree	None	Moderate-term on-the-job training
11-9032	Education Administrators, Kindergarten through Secondary	240	260	20	6.69	190	78480	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	180	190	10	6.86	140	*	Master's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	70	80	0	5.41	60	129940	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	240	280	40	18.57	330	44100	High school diploma or equivalent	Less than 5 years	None
11-9141	Property, Real Estate, and Community Association Managers	90	100	10	5.32	80	51890	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	60	70	10	13.33	60	54150	Bachelor's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers. All Other	150	170	20	16.55	140	74230	Bachelor's degree	Less than 5 years	None
13-1020	Buyers and Purchasing Agents	260	260	-10	-3.03	250	54920	Bachelor's degree	None	Moderate-term on-the-job training
13-1041	Compliance Officers	230	250	20	10.09	210	55170	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	100	100	0	0.00	90	56470	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	370	420	50	13.14	420	54670	Bachelor's degree	None	None
13-1081	Logisticians	70	100	30	37.14	100	69990	Bachelor's degree	None	None

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
13-1111	Management Analysts	120	140	20	17.65	140	64450	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	150	170	20	13.70	160	47800	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	170	220	50	29.17	240	58700	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	520	580	60	11.47	460	57310	Bachelor's degree	None	None
13-2011	Accountants and Auditors	770	910	150	18.95	870	56940	Bachelor's degree	None	None
13-2020	Property Appraisers and Assessors	80	90	0	2.41	70	39410	Bachelor's degree	None	Long-term on-the-job training
13-2072	Loan Officers	390	400	10	2.58	310	71930	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
15-1211	Computer Systems Analysts	120	130	10	7.38	100	81320	Bachelor's degree	None	None
15-1231	Computer Network Support Specialists	190	210	20	10.88	170	48330	Associate's degree	None	None
15-1232	Computer User Support Specialists	260	290	30	10.04	220	38150	Some college, no degree	None	None
15-1244	Network and Computer Systems Administrators	130	140	10	7.52	100	58500	Bachelor's degree	None	None
15-1245	Database Administrators and Architects	60	60	0	1.64	50	83170	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	150	190	50	30.61	170	84030	Bachelor's degree	None	None
15-1299	Computer Occupations, All Other	50	50	0	1.96	40	79500	Bachelor's degree	None	None
17-2051	Civil Engineers	80	80	0	2.67	60	86570	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	60	70	10	8.20	50	112550	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	90	100	0	4.40	60	*	Bachelor's degree	None	None
17-2112	Industrial Engineers	60	70	10	13.33	50	81050	Bachelor's degree	None	None
17-2141	Mechanical Engineers	120	130	10	9.92	90	89310	Bachelor's degree	None	None
17-2171	Petroleum Engineers	50	60	10	9.26	40	96290	Bachelor's degree	None	None
17-2199	Engineers, All Other	60	60	0	1.64	40	85040	Bachelor's degree	None	None
17-3023	Electrical and Electronics Engineering Technologists and Technicians	90	90	0	-1.09	80	58860	Associate's degree	None	None
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	50	60	10	9.80	50	63490	Associate's degree	None	None
19-4031	Chemical Technicians	150	160	20	10.96	180	70280	Associate's degree	None	Moderate-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
21-1015	Rehabilitation Counselors	110	130	20	13.16	130	21840	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	310	390	80	25.48	410	34500	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	280	310	30	11.27	300	38660	Bachelor's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	70	80	10	16.67	80	40300	Master's degree	None	Internship/residency
21-1093	Social and Human Service Assistants	60	80	10	18.75	90	29760	High school diploma or equivalent	None	Short-term on-the-job training
23-1011	Lawyers	110	130	20	14.68	70	77620	Doctoral or professional degree	None	None
23-1023	Judges, Magistrate Judges, and Magistrates	50	60	10	9.62	30	59290	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	180	230	50	25.00	260	34870	Associate's degree	None	None
25-1194	Career/Technical Education Teachers, Postsecondary	70	70	0	2.99	60	58450	Bachelor's degree	Less than 5 years	None
25-2011	Preschool Teachers, Except Special Education	470	540	70	15.91	570	36120	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	170	180	10	7.06	190	40690	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	1,070	1,140	70	6.85	850	41930	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	540	570	40	6.72	430	44470	Bachelor's degree	None	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	910	970	70	7.27	700	46090	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	80	90	10	6.25	60	46880	Bachelor's degree	Less than 5 years	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	160	170	10	6.83	130	46340	Bachelor's degree	None	None
25-2057	Special Education Teachers, Middle School	70	70	0	6.15	50	45720	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	70	70	10	7.35	60	43710	Bachelor's degree	None	None
25-3031	Substitute Teachers, Short-Term	420	470	50	11.85	560	21140	Bachelor's degree	None	None
25-4022	Librarians and Media Collections Specialists	140	140	10	4.44	130	37860	Master's degree	None	None
25-4031	Library Technicians	60	60	0	-5.17	80	27790	Postsecondary non-degree award	None	None
25-9031	Instructional Coordinators	170	180	10	8.24	180	49720	Master's degree	5 years or more	None
25-9045	Teaching Assistants, Except Postsecondary	1,020	1,110	90	8.31	1060	20280	Some college, no degree	None	None
29-1011	Chiropractors	50	60	10	12.00	20	74740	Doctoral or professional degree	None	None

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
29-1021	Dentists, General	60	60	10	9.09	20	127960	Doctoral or professional degree	None	None
29-1051	Pharmacists	230	230	0	0.44	90	57510	Doctoral or professional degree	None	None
29-1071	Physician Assistants	130	160	30	19.08	100	104100	Master's degree	None	None
29-1123	Physical Therapists	130	160	30	21.97	90	122620	Doctoral or professional degree	None	None
29-1127	Speech-Language Pathologists	80	90	20	22.67	70	54490	Master's degree	None	Internship/residency
29-1131	Veterinarians	60	80	20	31.75	40	77700	Doctoral or professional degree	None	None
29-1141	Registered Nurses	1,250	1,370	130	10.18	810	57270	Bachelor's degree	None	None
29-1215	Family Medicine Physicians	100	110	10	4.95	30	*	Doctoral or professional degree	None	Internship/residency
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	240	260	10	5.81	80	*	Doctoral or professional degree	None	Internship/residency
29-1292	Dental Hygienists	110	120	10	10.91	80	83440	Associate's degree	None	None
29-2010	Clinical Laboratory Technologists and Technicians	210	230	20	9.52	160	50770	Bachelor's degree	None	None
29-2034	Radiologic Technologists and Technicians	120	130	10	10.34	100	51010	Associate's degree	None	None
29-2040	Emergency Medical Technicians and Paramedics	230	260	20	10.34	180	27360	Postsecondary non-degree award	None	None
29-2052	Pharmacy Technicians	350	370	30	7.23	280	25890	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2056	Veterinary Technologists and Technicians	70	90	20	25.00	80	27680	Associate's degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	970	1,080	100	10.48	870	39340	Postsecondary non-degree award	None	None
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	230	260	20	8.97	190	46130	Postsecondary non-degree award	None	None
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners, AO	70	70	10	10.61	60	35490	Postsecondary non-degree award	None	None
31-1120	Home Health and Personal Care Aides	750	1,000	260	34.63	1310	21260	High school diploma or equivalent	None	Short-term on-the-job training
31-1131	Nursing Assistants	940	1,030	100	10.35	1,290	25890	Postsecondary non-degree award	None	None
31-2021	Physical Therapist Assistants	60	80	20	33.33	100	60510	Associate's degree	None	None
31-9091	Dental Assistants	260	280	30	11.37	340	32460	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	610	700	90	14.66	850	29190	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	90	80	-10	-11.36	100	20330	High school diploma or equivalent	None	Short-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
31-9097	Phlebotomists	50	70	10	25.00	80	28830	Postsecondary non-degree award	None	None
33-1012	First-Line Supervisors of Police and Detectives	110	120	10	4.50	80	58600	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Firefighting and Prevention Workers	100	100	10	5.10	70	60950	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-2011	Firefighters	230	250	20	7.42	190	34850	Postsecondary non-degree award	None	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	420	390	-30	-6.65	350	*	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	650	680	30	4.93	540	43860	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9031	Gambling Surveillance Officers and Gambling Investigators	100	130	30	28.43	180	25400	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9098	School Bus Monitors and Protective Service Workers, All Other	70	80	10	16.67	210	31590	High school diploma or equivalent	None	Short-term on-the-job training
35-2011	Cooks, Fast Food	720	730	10	1.39	1,050	20800	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	800	850	60	7.29	1250	21810	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	710	1,100	390	54.48	1,700	21950	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
35-2021	Food Preparation Workers	680	780	100	14.96	1350	21630	No formal educational credential	None	Short-term on-the-job training
35-3023	Fast Food and Counter Workers	2,520	3,010	490	19.37	6,090	19820	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	1,240	1,540	310	24.68	2980	18610	No formal educational credential	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	50	70	20	30.00	120	18790	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	100	120	20	20.79	200	21230	No formal educational credential	None	Short-term on-the-job training
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	160	170	10	8.33	200	39180	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	100	110	10	5.88	110	57880	High school diploma or equivalent	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,400	1,520	120	8.49	2,050	23490	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	780	910	130	16.97	1250	19250	No formal educational credential	None	Short-term on-the-job training
39-1013	First-Line Supervisors of Gambling Services Workers	90	120	30	31.82	140	33650	High school diploma or equivalent	Less than 5 years	None
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Workers, Exc Gambling Services	50	70	20	40.00	80	30630	High school diploma or equivalent	Less than 5 years	None
39-3011	Gambling Dealers	110	150	40	32.74	230	18710	High school diploma or equivalent	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	60	90	30	49.21	200	18160	No formal educational credential	None	Short-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
39-4021	Funeral Attendants	60	60	0	3.57	80	21950	High school diploma or equivalent	None	Short-term on-the-job training
39-9011	Childcare Workers	400	460	60	15.15	650	18630	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Exercise Trainers and Group Fitness Instructors	130	180	50	39.37	280	26030	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	90	100	10	15.29	150	27300	High school diploma or equivalent	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	1,330	1,290	-30	-2.56	1340	36700	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	280	280	0	0.00	240	61490	High school diploma or equivalent	Less than 5 years	None
41-2011	Cashiers	2,430	2,270	-160	-6.63	4080	20890	No formal educational credential	None	Short-term on-the-job training
41-2012	Gambling Change Persons and Booth Cashiers	90	120	30	35.56	220	21900	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	180	190	10	7.34	220	27050	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	230	260	30	11.74	320	34140	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	2,830	2,940	110	3.71	4100	23470	No formal educational credential	None	Short-term on-the-job training
41-3021	Insurance Sales Agents	340	370	30	9.50	350	53790	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	460	490	30	5.65	560	33030	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	280	310	30	11.51	320	65050	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	400	430	30	7.73	440	50000	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9022	Real Estate Sales Agents	310	310	0	-0.96	260	30590	High school diploma or equivalent	None	Moderate-term on-the-job training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	990	1,000	10	1.41	990	49350	High school diploma or equivalent	Less than 5 years	None
43-3011	Bill and Account Collectors	110	110	0	-2.68	120	33680	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	440	440	0	0.00	450	31970	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,860	1,920	70	3.61	2,140	35750	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gambling Cage Workers	100	140	30	31.73	160	21400	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	150	130	-10	-9.59	130	40870	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	530	450	-80	-15.88	420	29510	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	220	230	20	6.98	240	36200	High school diploma or equivalent	None	Long-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
43-4051	Customer Service Representatives	1,600	1,610	10	0.75	2030	30100	High school diploma or equivalent	None	Short-term on-the-job training
43-4071	File Clerks	80	70	-10	-13.33	70	31370	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	240	280	50	19.41	470	20140	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	140	130	-10	-5.07	160	29720	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	120	120	-10	-5.74	170	19740	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	240	240	0	-0.42	210	37320	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	70	60	-10	-14.29	50	34080	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4171	Receptionists and Information Clerks	440	440	10	1.83	560	27580	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Public Safety Telecommunicators	250	270	10	5.51	250	33270	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	210	210	0	0.48	190	36310	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5051	Postal Service Clerks	120	110	-20	-15.32	70	48070	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	360	300	-60	-15.45	180	45940	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	260	280	20	8.20	290	50280	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Inventory Clerks	290	270	-20	-5.26	250	31550	High school diploma or equivalent	None	Short-term on-the-job training
43-6013	Medical Secretaries and Administrative Assistants	400	450	50	12.37	500	28580	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,830	1,740	-80	-4.49	1,820	30900	High school diploma or equivalent	None	Short-term on-the-job training
43-9021	Data Entry Keyers	130	100	-30	-21.54	100	31460	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	1,120	1,150	30	2.50	1,320	26680	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	50	60	0	7.55	70	20820	High school diploma or equivalent	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	60	70	10	9.52	110	36160	No formal educational credential	None	Moderate-term on-the-job training
45-2099	Agricultural Workers, All Other	90	120	40	41.86	200	24780	No formal educational credential	None	Short-term on-the-job training
45-4022	Logging Equipment Operators	320	470	150	47.62	740 *		High school diploma or equivalent	None	Moderate-term on-the-job training
45-4029	Logging Workers, All Other	50	80	20	45.28	120 *		High school diploma or equivalent	None	Moderate-term on-the-job training
47-2031	Carpenters	350	360	10	2.28	330	39990	High school diploma or equivalent	None	Apprenticeship

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
47-2051	Cement Masons and Concrete Finishers	210	220	10	2.82	200	36160	No formal educational credential	None	Moderate-term on-the-job training
47-2061	Construction Laborers	750	810	60	8.42	820	31390	No formal educational credential	None	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	650	700	50	7.81	760	43540	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2111	Electricians	510	560	50	8.98	590	55420	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	90	100	10	5.49	90	35850	No formal educational credential	None	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	370	390	20	4.83	400	55640	High school diploma or equivalent	None	Apprenticeship
47-2211	Sheet Metal Workers	90	90	10	6.82	90	40020	High school diploma or equivalent	None	Apprenticeship
47-4011	Construction and Building Inspectors	90	90	0	2.22	110	62270	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	530	550	20	4.53	580	40360	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	60	60	10	8.77	70	32820	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	90	120	20	26.09	150	52050	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	440	550	110	24.71	680	45170	No formal educational credential	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil and Gas	290	350	60	20.82	440	52760	No formal educational credential	None	Moderate-term on-the-job training
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	100	100	0	1.00	120	43400	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	500	640	140	26.95	800	37150	No formal educational credential	None	Moderate-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	590	650	50	9.09	600	70690	High school diploma or equivalent	Less than 5 years	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	140	140	0	0.71	160	59720	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-3021	Automotive Body and Related Repairers	170	170	10	4.19	160	33400	High school diploma or equivalent	None	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	430	440	10	2.55	440	39190	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	290	330	40	14.19	320	42400	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	80	90	10	17.95	100	46890	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	140	160	20	15.44	160	54440	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	180	190	10	7.22	230	29430	High school diploma or equivalent	None	Short-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	210	220	10	5.19	180	50180	High school diploma or equivalent	None	Moderate-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	360	380	20	4.70	370	45650	Postsecondary non-degree award	None	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	440	520	80	18.10	490	50460	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	640	690	60	8.63	640	61100	High school diploma or equivalent	None	Long-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	250	260	10	5.28	230	62710	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	160	150	0	-0.65	160	69960	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	1,160	1,290	120	10.66	1270	30300	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9081	Wind Turbine Service Technicians	70	130	60	77.78	160	72390	Postsecondary non-degree award	None	Long-term on-the-job training
49-9098	Helpers—Installation, Maintenance, and Repair Workers	150	160	10	6.16	200	36500	High school diploma or equivalent	None	Short-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	750	780	30	4.15	770	59380	High school diploma or equivalent	Less than 5 years	None
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	70	80	0	5.63	80	38190	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2090	Miscellaneous Assemblers and Fabricators	670	610	-60	-9.06	640	31090	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3021	Butchers and Meat Cutters	70	70	0	2.78	90	27150	No formal educational credential	None	Long-term on-the-job training
51-3092	Food Batchmakers	150	160	10	5.44	190	32940	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	60	60	0	-6.45	60	37410	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	220	230	20	7.34	250	41240	High school diploma or equivalent	None	Long-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	60	50	0	-5.26	50	25130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,040	1,120	80	7.31	1,210	42870	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	100	110	10	9.80	150	21610	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	60	50	-10	-8.62	50	18580	No formal educational credential	None	Short-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	300	290	-10	-3.31	260	32950	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	420	440	10	3.07	450	79880	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	120	110	-10	-6.61	110	62110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	100	100	0	2.04	100	50010	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	220	230	10	5.07	250	36160	High school diploma or equivalent	None	Moderate-term on-the-job training

Table 12: 2020-2030 Occupational Employment Projections (continued)

SOC Code	Occupation	2020 Employment	2030 Employment	Numeric Change	Percent Change	Total Annual Openings	Median Annual Wage	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	390	360	-40	-9.90	400	45030	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	300	310	10	3.32	340	41260	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	220	240	20	9.05	250	36840	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9161	Computer Numerically Controlled Tool Operators	50	50	0	0.00	50	36460	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	130	130	-10	-4.48	180	31870	High school diploma or equivalent	None	Short-term on-the-job training
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	470	500	30	6.34	550	54640	High school diploma or equivalent	Less than 5 years	None
53-3031	Driver/Sales Workers	160	190	30	18.29	220	106450	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	2,580	2,870	290	11.31	3260	26930	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck Drivers	440	470	30	7.29	530	34250	High school diploma or equivalent	None	Short-term on-the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	360	410	50	13.45	490	21140	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	180	190	10	4.40	260	24340	No formal educational credential	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	50	50	0	5.88	60	33950	No formal educational credential	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	400	450	60	14.36	510	30870	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	430	460	40	8.16	650	27880	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,290	1,490	200	15.57	2,020	29000	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	590	590	0	0.00	820	24070	No formal educational credential	None	Short-term on-the-job training
53-7065	Stockers and Order Fillers	970	1,050	80	8.69	1,640	24160	High school diploma or equivalent	None	Short-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumps	70	70	10	12.31	80	60610	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7073	Wellhead Pumps	200	210	10	6.47	240	64840	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	250	270	30	11.38	370	35910	No formal educational credential	None	Short-term on-the-job training

Source: Employment Projections (EP) program, Oklahoma Employment Security Commission, Economic Research & Analysis Division, [Industry and Occupational Employment Projections \(oklahoma.gov\)](http://oklahoma.gov).