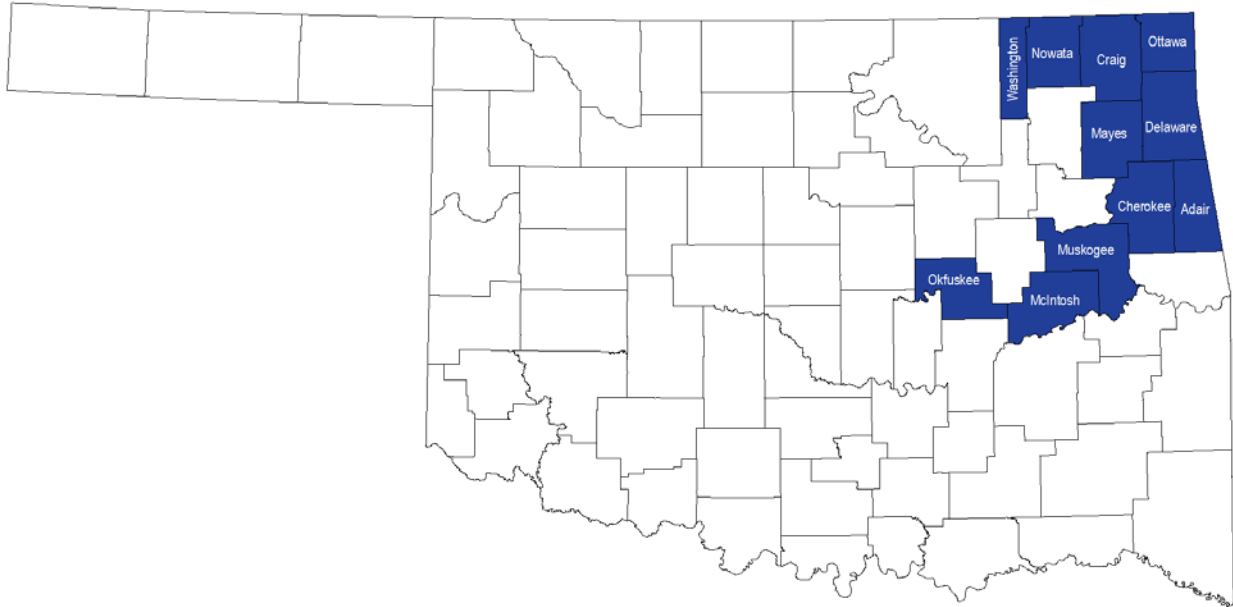


# NORTHEAST NONMETROPOLITAN AREA



## 2023 LOCAL BRIEFING

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## Introduction

The Northeast Nonmetropolitan Area is comprised of 11 Oklahoma counties: Adair, Cherokee, Craig, Delaware, McIntosh, Mayes, Muskogee, Nowata, Okfuskee, Ottawa, and Washington. According to the U.S. Census Bureau, this combined nonmetropolitan area of Oklahoma covers 7,263 square miles and is home to more than 350,000 residents. Muskogee County, the largest county in land area, constitutes 12 percent of the Northeast Area. Washington County, with 6 percent of the land area, is the smallest county of the Northeast Area. The following reviews the population, education, labor force, top industries by total jobs, and staffing patterns of state key industry sectors.

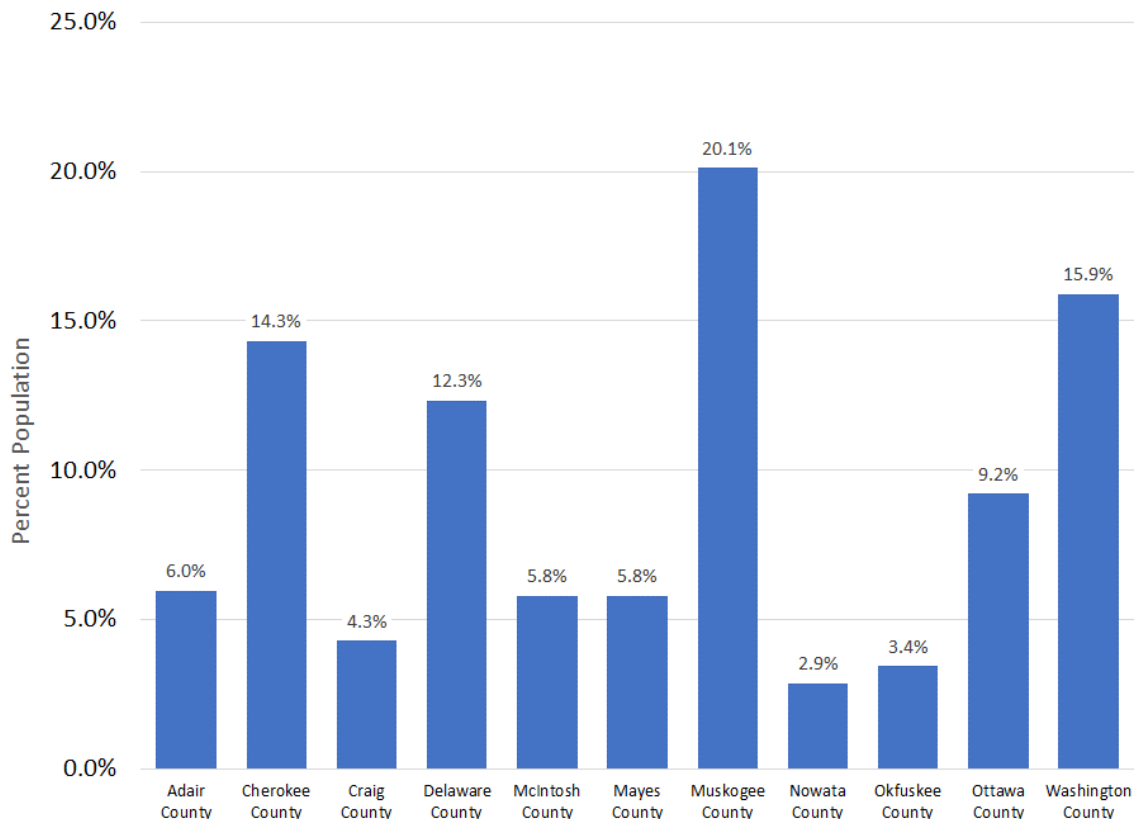
## Population

Between 2017 and 2022, the Northeast Nonmetropolitan Area declined by approximately 3.4 percent, from 363,455 to 351,022, or around 12,433 fewer people. Between 2020 and 2030, the area is expected to grow by 2.5 percent to 357,540 people. The following shows population figures and analyses by county, age, race, and ethnicity in the Northeast Nonmetropolitan Area.

### Population by County

Figure 1 shows the Northeast Nonmetropolitan Area population breakdown by county. Muskogee County had the largest share of population, representing 20.1 percent of the total population in the Northeast Area. Washington County had the second largest share of population at 15.9 percent. Nowata County had the smallest population, representing 2.9 percent of the population in the Northeast area.

Figure 1: Population by County



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

Table 1 provides the change in the Northeast Nonmetropolitan Area population by county from 2017 to 2022. During this period, all counties declined in population, with the exception of Washington County which added 712 (1.4 percent) residents. Muskogee County lost the largest number of people at 2,865 (-4.1 percent), followed by Adair County at 2,410 (-10.9 percent).

**Table 1: Population by County**

County	2017 Population	2022 Population	Total Change	Percent Change
Adair	22,136	19,726	-2,410	-10.9%
Cherokee	48,404	47,412	-992	-2.0%
Craig	14,563	14,144	-419	-2.9%
Delaware	41,878	40,791	-1,087	-2.6%
McIntosh	19,874	19,159	-715	-3.6%
Mayes	40,929	39,324	-1,605	-3.9%
Muskogee	69,471	66,606	-2,865	-4.1%
Nowata	10,448	9,460	-988	-9.5%
Okfuskee	12,160	11,349	-811	-6.7%
Ottawa	31,725	30,472	-1,253	-3.9%
Washington	51,867	52,579	712	1.4%
<b>Total</b>	<b>363,455</b>	<b>351,022</b>	<b>-12,433</b>	<b>-3.4%</b>

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

Table 2 below shows the projected population change from 2020 to 2030 by county. During this period, the Northeast area's population is projected to grow 2.5 percent, adding 8,767 new residents. Mayes County is projected to have the largest increase in population at 2,715 (7.0 percent) additional people. Delaware County is projected to add the second largest number of people at 2,114 (5.2 percent). The populations in Craig, McIntosh, Muskogee, and Washington Counties are projected to decline.

**Table 2: Projected Population by County**

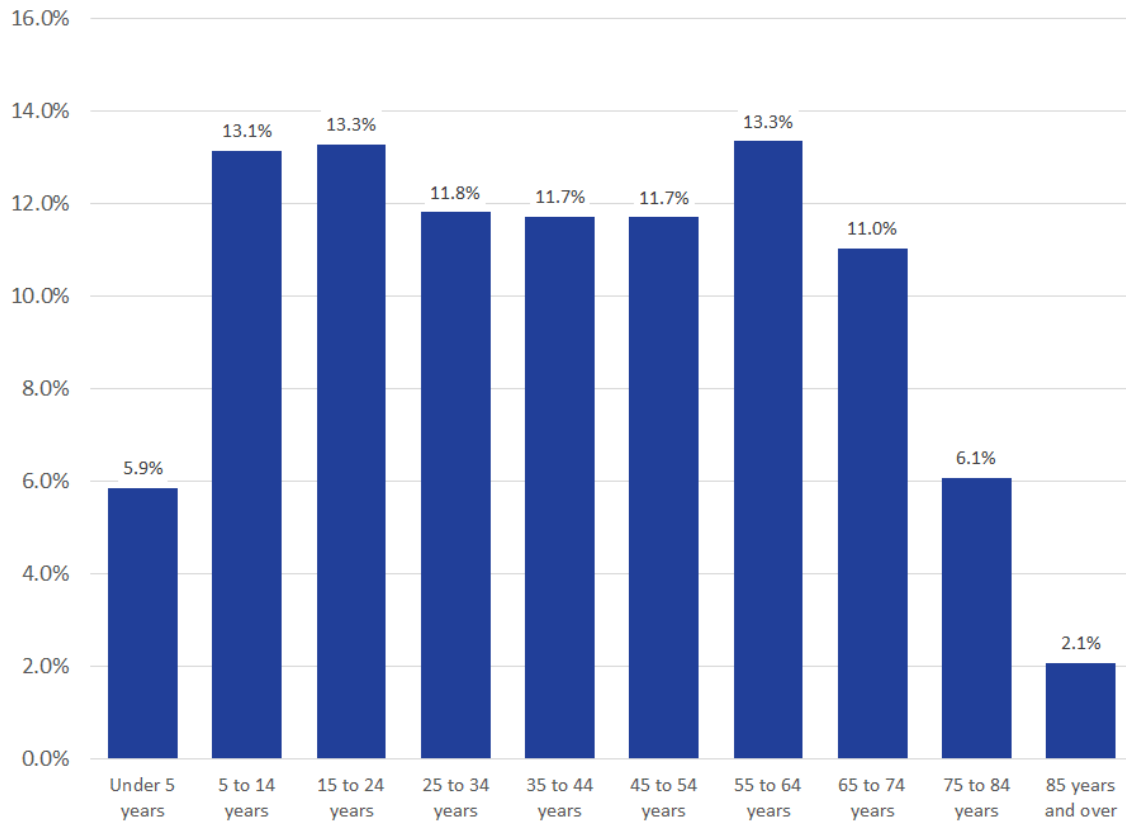
County	2020 Population	2030 Population	Total Change	Percent Change
Adair	19,495	21,410	1,915	9.8%
Cherokee	47,078	49,697	2,619	5.6%
Craig	14,107	13,494	-613	-4.3%
Delaware	40,397	42,511	2,114	5.2%
McIntosh	18,941	18,008	-933	-4.9%
Mayes	39,046	41,761	2,715	7.0%
Muskogee	66,339	65,442	-897	-1.4%
Nowata	9,320	10,084	764	8.2%
Okfuskee	11,310	11,828	518	4.6%
Ottawa	30,285	30,894	609	2.0%
Washington	52,455	52,411	-44	-0.1%
<b>Total</b>	<b>348,773</b>	<b>357,540</b>	<b>8,767</b>	<b>2.5%</b>

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

## Population by Age

Figure 2 below shows the population by age in the Northeast Nonmetropolitan Area. In 2022, the 15- to 24- and 55- to 64-year old age groups represented the largest age groups in the Northeast area's population at 13.3 percent each. The next largest age group was the 5- to 14-year old group at 13.1 percent. Those aged 85 and over represent the smallest age group in the Northeast Nonmetropolitan Area at 2.1 percent.

Figure 2: Population by Age



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

Table 3 below provides the population change by age group from 2017 to 2021. During this period, all age groups declined in population, with the exception of 65- to 74- and 75- to 84-years old gaining 786 (2.1 percent) and 654 (3.2 percent) respectively. The largest decline was seen in the 45- to 54-year old age group decreasing by 4,392 (-9.7 percent), followed by under 5-year olds declining 2,132 (-9.4 percent). Collectively, the population over 65 years old gained 1,359 (2.1 percent), while the population under 25 years old declined by 5,845 (-4.9 percent) from 2017 to 2022.

Table 3: Population by Age

Age	2017 Population	2022 Population	Total Change	Percent Change
Under 5 years	22,701	20,569	-2,132	-9.4%
5 to 14 years	47,825	46,096	-1,729	-3.6%
15 to 24 years	48,551	46,567	-1,984	-4.1%
25 to 34 years	42,919	41,449	-1,470	-3.4%
35 to 44 years	41,437	41,090	-347	-0.8%
45 to 54 years	45,451	41,059	-4,392	-9.7%
55 to 64 years	48,561	46,823	-1,738	-3.6%
65 to 74 years	37,931	38,717	786	2.1%
75 to 84 years	20,695	21,349	654	3.2%
85 years and over	7,384	7,303	-81	-1.1%
<b>Total</b>	<b>363,455</b>	<b>351,022</b>	<b>-12,433</b>	<b>-3.4%</b>

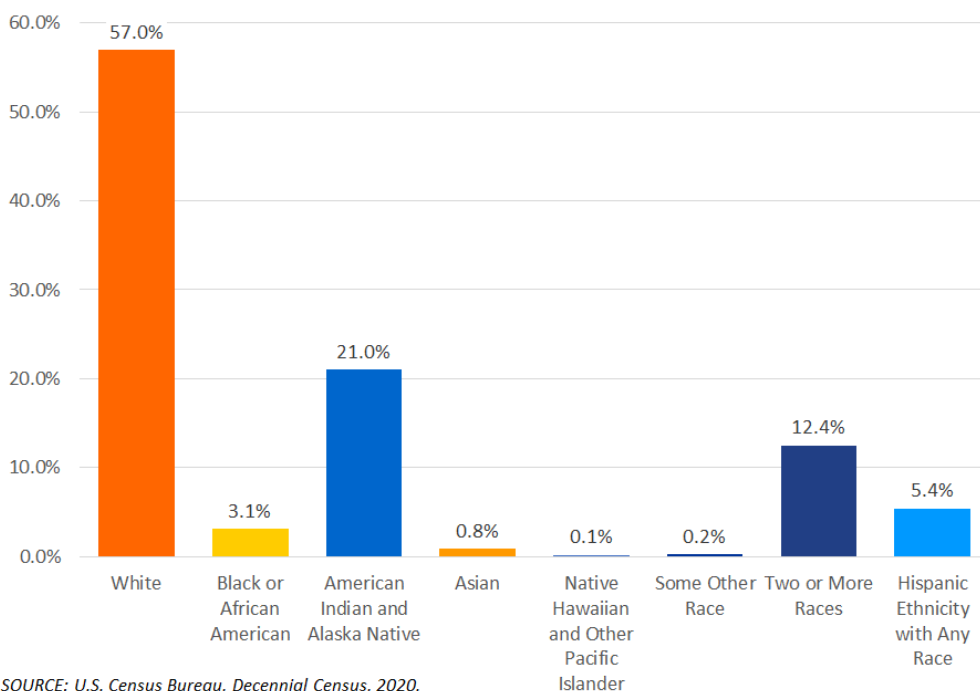
SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.

### Population by Race and Ethnicity

The following analysis 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 summarizes the Northeast Nonmetropolitan Area population by race and ethnicity in 2020. White made up the largest percentage of the population at 57.0 percent. American Indian and Alaska Native were the second largest percentage of the population at 21.0 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 provides the population change by demographic group for Northeast Nonmetropolitan Area from 2017 to 2022. During this period, half of the demographic groups grew in population. Hispanic Ethnicity with Any Race and Two or More Races saw the most population growth during this period at 2,626 (14.5 percent) and 983 (2.8 percent) additional people, respectively. Alternatively, Some Other Race added the least in total population during this period at 125 (66.5 percent) additional people. The White (-15,083) and Black or African American (-1,078) segments of the population declined the most during this period.

**Table 4: Population by Race and Ethnicity**

Demographic	2017 Population	2022 Population	Total Change	Percent Change
White	221,733	206,650	-15,083	-6.8%
Black or African American	12,183	11,105	-1,078	-8.8%
American Indian and Alaska Native	72,260	71,853	-407	-0.6%
Asian	2,986	3,632	646	21.6%
Native Hawaiian and Other Pacific Islander	630	385	-245	-38.9%
Some Other Race	188	313	125	66.5%
Two or More Races	35,306	36,289	983	2.8%
Hispanic Ethnicity with Any Race	18,169	20,795	2,626	14.5%
<b>Total</b>	<b>363,455</b>	<b>351,022</b>	<b>-12,433</b>	<b>-3.4%</b>

*SOURCE: U.S. Census Bureau. American Community Survey, ACS 5-Year Estimates.*

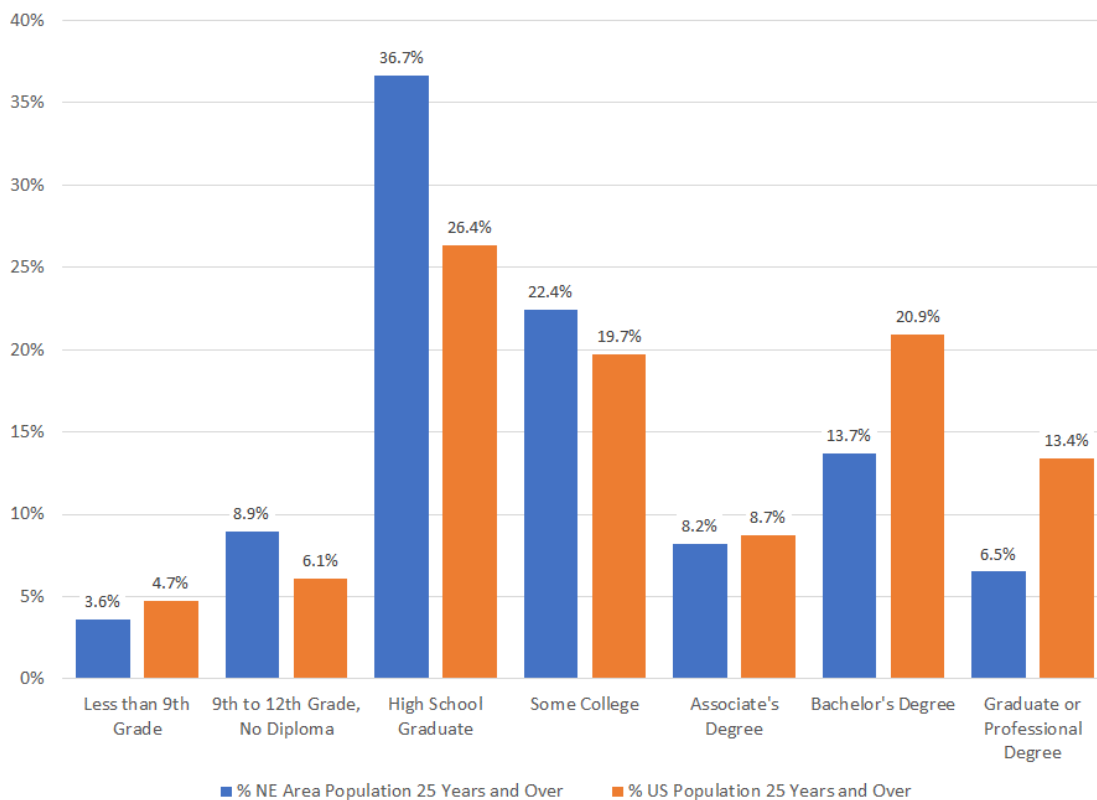
## Education

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 Northeast Nonmetropolitan Area’s educational attainment and provides an educational attainment mismatch analysis, and details the State’s educational assets.

### Educational Attainment

Figure 4 compares the Northeast Nonmetropolitan Area’s educational attainment levels with the United States educational attainment levels in 2022. In the Northeast area, High School Graduates made up the largest share of the population at 36.7 percent. This was 10.3 percentage points higher than the U.S. average of 26.4 percent. The second largest share of the population was Some College at 22.4 percent. Those with less than 9th grade educational attainment represented the smallest group at 3.6 percent, 1.2 percentage point below the national average.

Figure 4: Educational Attainment



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

Table 5 provides the change in educational attainment levels in Northeast Nonmetropolitan Area from 2017 to 2022. By 2022, more people achieved higher levels of education than in 2017, while fewer people had below high school graduate. In particular, those with Bachelor’s and Graduate Degrees grew the most during this period adding 1,967 and 1,219 more people respectively. Those with less than a high school diploma fell a combined 5,673 people (-16.0 percent) from 2017 to 2022.

Table 5: Educational Attainment

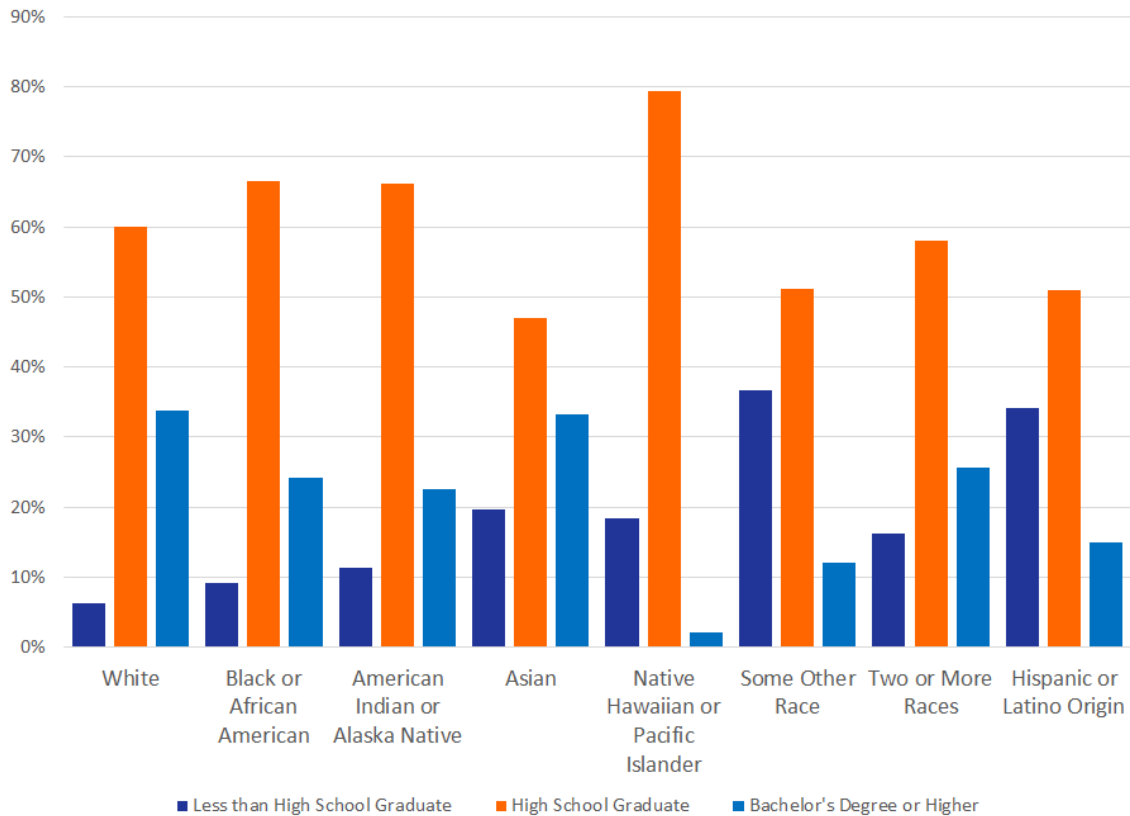
Educational Attainment	2017 Population	2022 Population	Total Change	Percent Change
Less than 9th Grade	9,485	8,537	-948	-10.0%
9th to 12th Grade, No Diploma	25,970	21,245	-4,725	-18.2%
High School Graduate	91,249	87,203	-4,046	-4.4%
Some College	54,057	53,294	-763	-1.4%
Associate's Degree	18,812	19,520	708	3.8%
Bachelor's Degree	30,553	32,520	1,967	6.4%
Graduate or Professional Degree	14,252	15,471	1,219	8.6%
<b>Total</b>	<b>244,378</b>	<b>237,790</b>	<b>-6,588</b>	<b>-2.7%</b>

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

### Educational Attainment by Race and Ethnicity

Figure 5 shows Northeastern Nonmetropolitan Area’s education attainment levels by race and ethnicity in 2022. Across all racial and ethnic groups, High School Graduate represented the largest percentage of the respective population groups. Native Hawaiian or Pacific Islander had the largest population percentage at the High School Graduate level at nearly 80 percent. White had the largest population percentage at the Bachelor’s Degree or Higher level at 33.8 percent, followed by Asian at 33.3 percent.

Figure 5: Educational Attainment by Race and Ethnicity

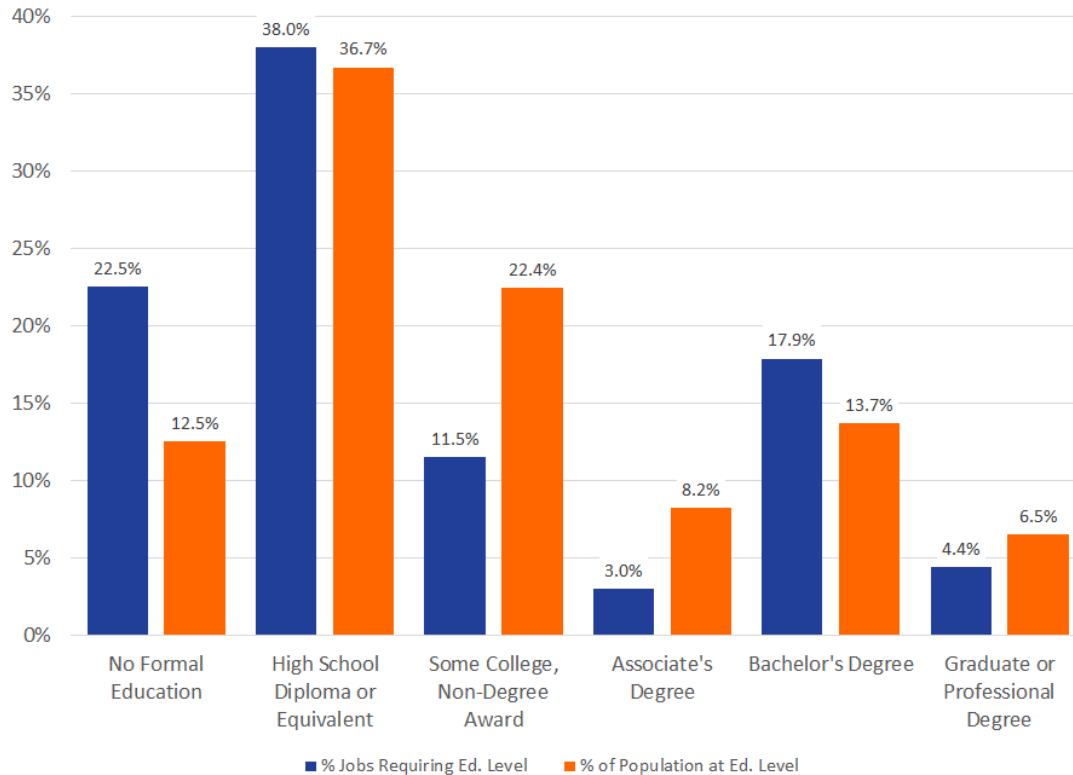


SOURCE: U.S. Census Bureau. 2022 American Community Survey, ACS 5-Year Estimates.

## Educational Attainment Mismatch

Figure 6 below shows an educational attainment mismatch analysis for the Northeast Nonmetropolitan Area.<sup>1</sup> This compares the typical education required for jobs to the educational attainment of the population in 2022. In 2022, approximately 22.5 percent of jobs in the Northeast Area required no formal education while just 12.5 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, 38.0 percent of jobs in Northeast Area require this level of education while 36.7 percent of the population have this level of education. The percent of population with Some College, Non-Degree Award was 22.4 percent, while just 11.5 percent of jobs required these levels of education, suggesting underemployment. At the Bachelor’s Degree level, 13.7 percent of the population hold the degree while 17.9 percent of jobs require it. For those with a Graduate Degree or Higher, 6.5 percent of the population is prepared for 4.4 percent of the jobs in the market.

Figure 6: Educational Attainment Mismatch



## Educational Assets

The Northeast Area has 16 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.

<sup>1</sup> 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 OESC’s Economic Research and Analysis Division and Bureau of Labor Statistics.

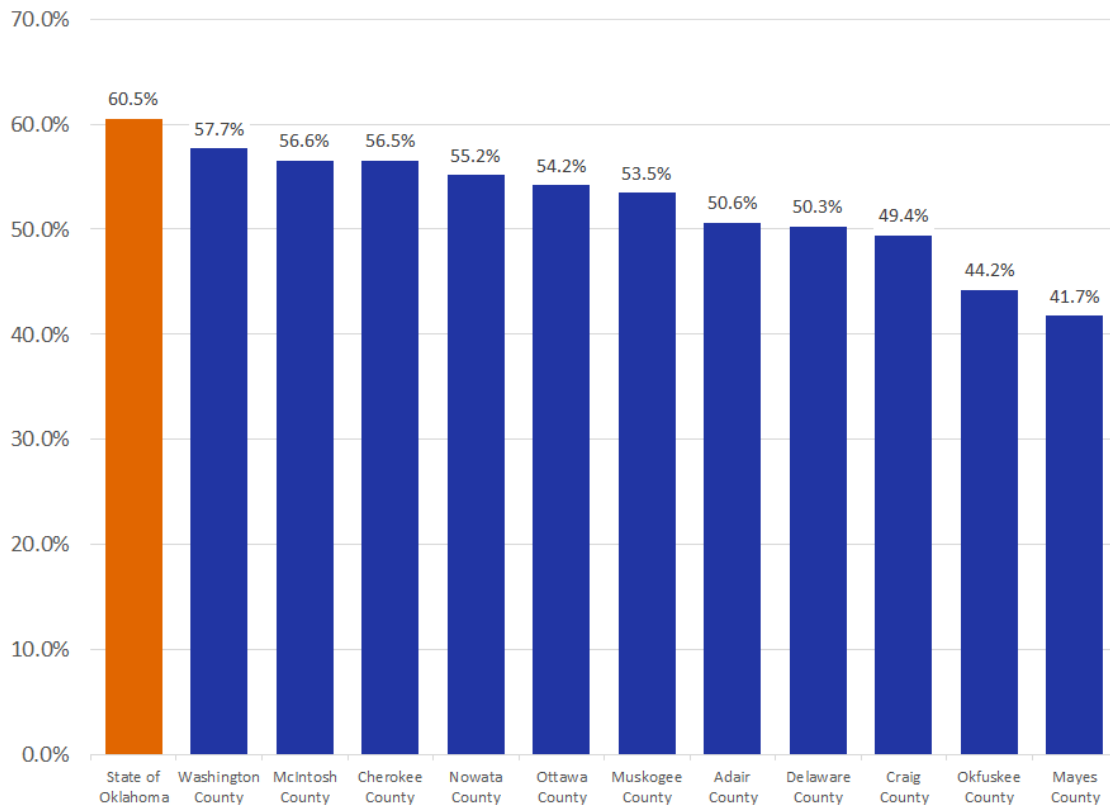
## Labor Force

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 Northeast 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 Northeast Nonmetropolitan Area labor force participation rate (LFPR) by county. In 2022, none of 11 counties in the Northeast Area met or exceeded the Oklahoma state average labor force participation rate of 60.5 percent. The highest labor force participation rate was in Washington County at 57.7 percent. The second highest was in McIntosh County at 56.6 percent, followed by Cherokee County at 56.5 percent. The lowest labor force participation rate was in Mayes County at 41.7 percent, the lowest in the state in 2022.

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 by county for the Northeast Nonmetropolitan Area from 2020 to 2021. During this period, six of the Northeast Area’s county labor force participation rates increased. Muskogee County’s labor force participation rate grew the most during this period at an additional 0.6 percentage point. Craig and McIntosh County’s rate decreased by the most at -0.9 and -0.7 percentage point respectively. This follows the general decline of the state’s rate at -0.3 since 2020.

Table 6: Labor Force Participation by County

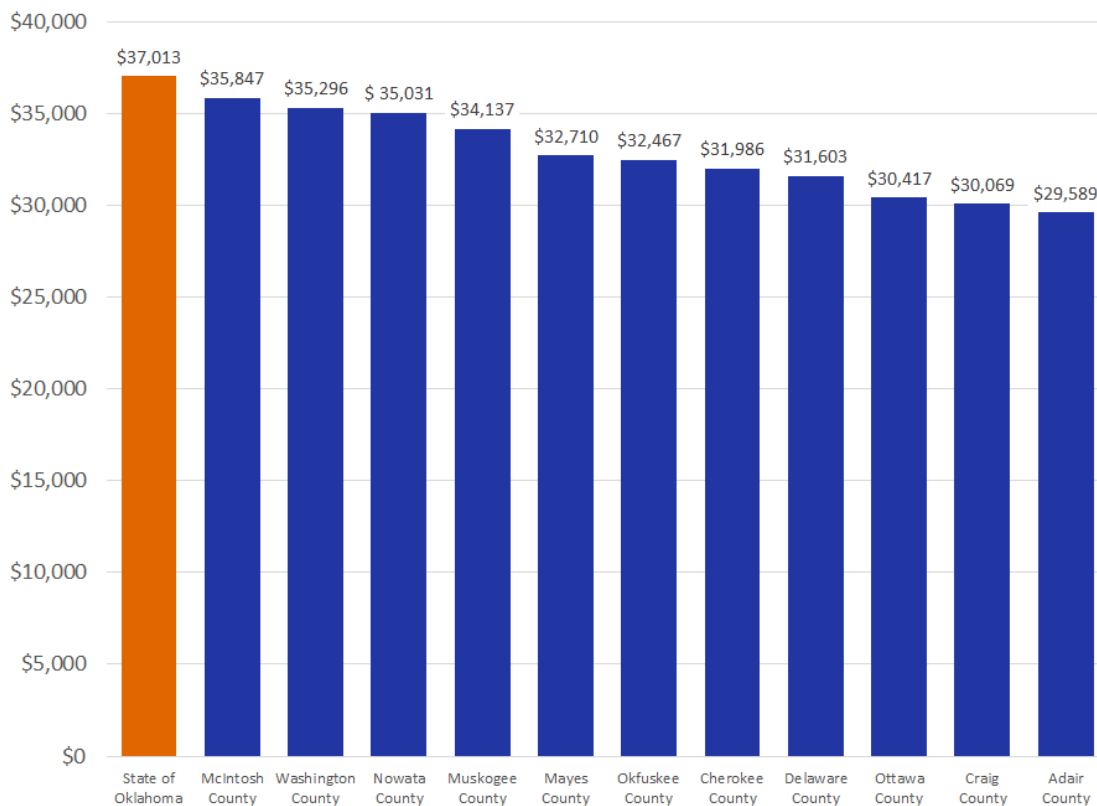
Area	LFPR 2021	LFPR 2022	Total Change
State of Oklahoma	60.8%	60.5%	-0.3%
Adair County	50.4%	50.6%	0.3%
Cherokee County	56.4%	56.5%	0.2%
Craig County	50.3%	49.4%	-0.9%
Delaware County	50.0%	50.3%	0.3%
Mayes County	42.3%	41.7%	-0.5%
McIntosh County	57.2%	56.6%	-0.7%
Muskogee County	52.8%	53.5%	0.6%
Nowata County	54.8%	55.2%	0.3%
Okfuskee County	44.3%	44.2%	-0.1%
Ottawa County	54.5%	54.2%	-0.4%
Washington County	57.5%	57.7%	0.2%

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

### Median Earnings

Figure 8 provides the median earnings of those that are over the age of 16 in each of Northeast Nonmetropolitan Area’s counties and the State of Oklahoma in 2022. Overall, none of the Northeast area’s counties had median earnings above those at the state level of \$37,013. The highest earnings were found in McIntosh County at \$35,847. The second highest median earnings were Washington County at \$35,296, followed by Nowata County at \$35,031. The lowest median earnings were in Adair County at \$29,589.

Figure 8: Median Earnings by County, 2022

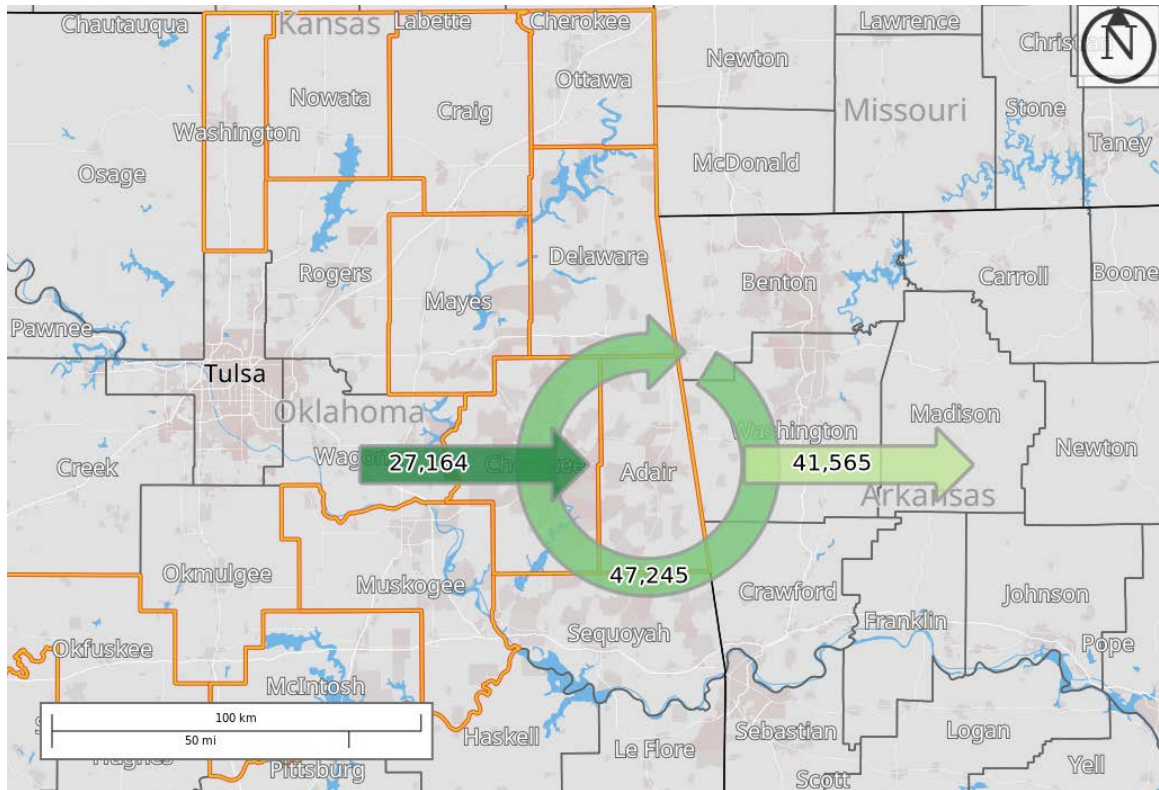


SOURCE: U.S. Census Bureau. American Community Survey (ACS) 5-Year Estimates.

## 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, 27,164 (36.5 percent) worked in the Northeast Nonmetropolitan Area and did not live there, 47,245 lived and worked in the Northeast Area, and 41,565 (46.8 percent) lived in the Northeast Nonmetropolitan 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](http://www.census.gov/eos/www/naics).

Table 7 below shows the top ten industries in the Northeast Nonmetropolitan Area by the total number of jobs in 2022. There was an estimated 117,794 number of total jobs in the Northeast Area in 2022. The largest sector was Government with 35,188 jobs. The second largest sector was Retail Trade with 14,893 jobs, followed by Health Care and Social Assistance with 12,173 jobs. The tenth largest sector was Other Services with 2,428 jobs. Together, these industries made up 85.5 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	35,188	29.9%
44	Retail Trade	14,893	12.6%
62	Health Care and Social Assistance*	12,173	10.3%
31-33	Manufacturing	10,667	9.1%
72	Accommodation and Food Services*	9,969	8.5%
56	Administrative and Support and Waste Management*	5,196	4.4%
23	Construction	4,446	3.8%
52	Finance and Insurance	3,003	2.5%
21	Mining, Quarrying, and Oil and Gas Extraction*	2,790	2.4%
81	Other Services (except Public Administration)*	2,428	2.1%

\* 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: Bureau of Labor Statistics. Quarterly Census of Employment and Wages (QCEW).

## 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 11 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 Northeast Nonmetropolitan Area's population, educational attainment and assets, labor force information, top industry data, and key and complementary sectors. The Northeast Nonmetropolitan Area is one of four Nonmetropolitan Areas in Oklahoma. The Oklahoma Employment Security Commission prepares briefings for each of the five Metropolitan Statistical Areas and the four Nonmetropolitan Areas, including a state-level briefing.

Table 10: Educational Assets

Institution Name	Institution Type	City	County	Area	Degree Types
College of the Muscogee Nation	Public	Muskogee	Muskogee	Northeast	Associate, Certificate
Connors State College	Public	Muskogee	Muskogee	Northeast	Associate, Certificate
Connors State College	Public	Warner	Muskogee	Northeast	Associate, Certificate
Northeastern Oklahoma A&M College	Public	Miami	Ottawa	Northeast	Associate, Certificate
Northeastern State University	Public	Tahlequah	Cherokee	Northeast	Certificate, Bachelor, Master
Northeastern State University	Public	Muskogee	Muskogee	Northeast	Certificate, Bachelor, Master
Rogers State University	Public	Bartlesville	Washington	Northeast	Certificate, Associate, Bachelor, Master
Rogers State University	Public	Pryor	Mayes	Northeast	Certificate, Associate, Bachelor, Master
Oklahoma Wesleyan University	Private Non-Profit	Bartlesville	Washington	Northeast	Associate, Bachelor, Master, Doctorate, Certificate
Indian Capital Technology Center	Technical School	Stilwell	Adair	Northeast	Certificate
Indian Capital Technology Center	Technical School	Tahlequah	Cherokee	Northeast	Certificate
Northeast Technology Center	Technical School	Afton	Ottawa	Northeast	Certificate
Northeast Technology Center	Technical School	Claremore	Rogers	Northeast	Certificate
Northeast Technology Center	Technical School	Kansas	Delaware	Northeast	Certificate
Northeast Technology Center	Technical School	Pryor	Mayes	Northeast	Certificate
Tri-County Technology Center	Technical School	Bartlesville	Washington	Northeast	Certificate

SOURCE: Oklahoma State Regents of Higher Education. [CareerTech.org](http://www.careertech.org).

## Key Industries

Table 11: Industry Location Quotients (LQ)

NAICS Code	Industry	2022 Average Employment	2022 Average Annual Earnings	Employment LQ
<b>Aerospace and Defense Industries</b>				
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
<b>Energy Industries</b>				
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
<b>Agribusiness and Biosciences Industries</b>				
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
<b>Manufacturing Industries</b>				
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 12: 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 12: 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 13: 2020-2030 Northeast Nonmetropolitan Area Industry Employment Projections

NAICS Code	Industry	2020 Employment	2030 Employment	Numeric Change	Percent Change
000000	Total All Industries	119,600	131,210	11,610	9.7%
000670	Self Employed and Unpaid Family Workers, All Jobs	5,400	5,380	-20	-0.4%
110000	Agriculture, Forestry, Fishing and Hunting	*	*	*	*
210000	Mining	*	*	*	*
220000	Utilities	*	*	*	*
230000	Construction	*	*	*	*
310000	Manufacturing	10,370	11,190	820	0.8%
420000	Wholesale Trade	*	*	*	*
440000	Retail Trade	14,320	14,490	170	0.1%
480000	Transportation and Warehousing	2,550	2,740	200	0.7%
510000	Information	1,250	1,420	170	1.3%
520000	Finance and Insurance	2,920	3,280	360	1.2%
530000	Real Estate and Rental and Leasing	1,030	1,110	80	0.8%
540000	Professional, Scientific, and Technical Services	1,780	1,990	210	1.1%
550000	Management of Companies and Enterprises	350	380	30	0.8%
560000	Administrative and Support and Waste Management and Remediation Services	4,620	5,090	470	1.0%
610000	Educational Services	11010	11,640	640	0.6%
620000	Health Care and Social Assistance	15,590	18,080	2,490	1.5%
710000	Arts, Entertainment, and Recreation	5630	6,740	1,110	1.8%
720000	Accommodation and Food Services	10,460	12,730	2,270	2.0%
810000	Other Services (except Government)	2410	2,740	330	1.3%
910000	Total Federal Government Employment	4,060	4,000	-60	-0.2%
999200	State Government, Excluding Education and Hospitals	2880	2,990	110	0.4%
999300	Local Government, Excluding Education and Hospitals	15,310	15,860	540	0.4%

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 14: 2020-2030 Northeast 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
<b>00-0000</b>	<b>Total, All Occupations</b>	<b>119,600</b>	<b>131,210</b>	<b>11,610</b>	<b>9.71</b>	<b>150,150</b>	<b>\$33,140</b>			
11-1021	General and Operations Managers	1,490	1,680	190	12.41	1,480	\$75,510	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	150	160	10	6.58	140	\$73,830	Bachelor's degree	Less than 5 years	None
11-3010	Administrative Services and Facilities Managers	420	480	60	15.27	420	\$84,560	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	210	240	30	13.68	200	\$119,710	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	370	460	90	25.61	390	\$95,820	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	100	110	10	11.11	80	99380	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	60	70	10	16.13	60	\$83,130	High school diploma or equivalent	5 years or more	None
11-3121	Human Resources Managers	100	120	20	18.27	110	\$86,870	Bachelor's degree	5 years or more	None
11-9021	Construction Managers	160	180	20	9.94	140	\$82,380	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education and Childcare Administrators, Preschool and Daycare	80	90	10	12.2	70	\$37,590	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Kindergarten through Secondary	320	340	20	7.21	260	75510	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	60	60	0	6.9	50	\$95,390	Master's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	60	60	10	10.34	50	\$118,980	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	200	230	30	13.5	260	\$51,760	High school diploma or equivalent	Less than 5 years	None
11-9071	Gambling Managers	60	70	10	15.79	50	\$67,810	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	60	70	10	12.9	80	\$43,230	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	580	790	200	34.65	720	\$85,870	Bachelor's degree	Less than 5 years	None
11-9141	Property, Real Estate, and Community Association Managers	330	340	20	5.21	270	\$32,080	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	150	180	20	15.03	160	\$59,640	Bachelor's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	170	190	20	10.65	150	\$80,160	Bachelor's degree	Less than 5 years	None
13-1020	Buyers and Purchasing Agents	360	360	0	0.56	350	53150	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	1,510	1,410	-100	-6.7	1,000	\$61,730	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	290	330	30	11.68	270	\$53,980	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	90	90	0	1.09	80	\$53,740	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	530	600	70	14.07	600	\$50,590	Bachelor's degree	None	None
13-1081	Logisticians	110	140	40	33.33	140	\$69,690	Bachelor's degree	None	None
13-1111	Management Analysts	220	260	40	19.35	260	\$76,720	Bachelor's degree	Less than 5 years	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	60	70	10	20	60	\$39,910	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	140	160	20	16.43	160	\$48,860	Bachelor's degree	Less than 5 years	None

Table 14: 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
13-1161	Market Research Analysts and Marketing Specialists	200	270	60	30.88	290	\$46,210	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	550	590	40	6.52	450	\$58,180	Bachelor's degree	None	None
13-2011	Accountants and Auditors	1,270	1,430	160	12.24	1,330	\$71,130	Bachelor's degree	None	None
13-2072	Loan Officers	350	410	50	15.06	340	\$58,390	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	100	120	10	11.54	90	\$59,910	Bachelor's degree	None	None
15-1211	Computer Systems Analysts	130	140	0	2.24	100	*	Bachelor's degree	None	None
15-1231	Computer Network Support Specialists	120	140	20	13.82	110	60740	Associate's degree	None	None
15-1232	Computer User Support Specialists	340	380	40	12.35	300	\$44,830	Some college, no degree	None	None
15-1241	Computer Network Architects	130	140	0	2.26	80	\$116,410	Bachelor's degree	5 years or more	None
15-1244	Network and Computer Systems Administrators	350	380	30	8.47	270	*	Bachelor's degree	None	None
15-1251	Computer Programmers	70	60	-10	-9.09	40	*	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	320	400	90	28.25	350	103350	Bachelor's degree	None	None
15-1299	Computer Occupations, All Other	130	140	20	13.6	110	\$73,830	Bachelor's degree	None	None
17-2041	Chemical Engineers	80	90	10	16.67	60	*	Bachelor's degree	None	None
17-2071	Electrical Engineers	80	90	10	10.98	70	\$92,630	Bachelor's degree	None	None
17-2081	Environmental Engineers	60	70	10	9.84	50	\$88,830	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	50	60	10	12	40	\$119,050	Bachelor's degree	None	None
17-2112	Industrial Engineers	100	120	20	21.88	90	\$78,890	Bachelor's degree	None	None
17-2141	Mechanical Engineers	60	70	10	16.95	50	\$71,690	Bachelor's degree	None	None
17-2171	Petroleum Engineers	70	80	10	16.67	60	\$130,720	Bachelor's degree	None	None
17-3026	Industrial Engineering Technologists and Technicians	60	70	10	12.5	70	\$58,000	Associate's degree	None	None
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	50	60	10	12.96	60	\$58,620	Associate's degree	None	None
19-1031	Conservation Scientists	50	60	10	11.76	60	\$57,080	Bachelor's degree	None	None
19-2031	Chemists	60	70	10	19.35	70	*	Bachelor's degree	None	None
21-1012	Educational, Guidance, and Career Counselors and Advisors	360	400	40	11.17	390	\$40,650	Master's degree	None	None
21-1015	Rehabilitation Counselors	170	190	20	12.79	190	\$27,200	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	460	580	120	26.03	600	\$47,330	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	700	790	90	12.93	770	\$37,500	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	220	250	30	15.67	250	\$46,190	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	90	100	20	17.05	100	\$31,880	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	80	90	0	2.41	80	\$84,390	Bachelor's degree	None	None
21-1091	Health Education Specialists	80	90	20	25.33	110	\$56,260	Bachelor's degree	None	None
21-1093	Social and Human Service Assistants	150	180	30	18.18	220	\$31,540	High school diploma or equivalent	None	Short-term on-the-job training
23-1011	Lawyers	310	350	40	11.78	190	\$51,200	Doctoral or professional degree	None	None
23-1023	Judges, Magistrate Judges, and Magistrates	90	100	10	8.79	50	*	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	90	90	0	4.44	90	\$33,630	High school diploma or equivalent	None	Moderate-term on-the-job training



Table 14: 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
25-1021	Computer Science Teachers, Postsecondary	70	80	0	5.41	70	\$49,770	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	150	180	30	22.15	180	\$62,170	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	50	60	10	21.15	60	\$48,430	Doctoral or professional degree	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	80	90	10	8.97	80	\$58,180	Master's degree	None	None
25-1194	Career/Technical Education Teachers, Postsecondary	170	180	10	3.53	160	\$58,740	Bachelor's degree	Less than 5 years	None
25-2011	Preschool Teachers, Except Special Education	680	810	130	18.56	860	\$24,640	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	210	230	10	6.6	230	43950	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	1,490	1,590	100	6.57	1,190	\$43,680	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	750	800	50	6.78	600	\$45,610	Bachelor's degree	None	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	990	1,070	80	7.55	770	\$47,460	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	60	60	0	4.92	50	\$50,560	Bachelor's degree	Less than 5 years	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	140	150	10	6.43	110	\$46,340	Bachelor's degree	None	None
25-2057	Special Education Teachers, Middle School	80	90	10	7.32	70	\$48,340	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	50	60	0	5.56	40	\$48,020	Bachelor's degree	None	None
25-3031	Substitute Teachers, Short-Term	450	500	50	12.03	590	\$18,940	Bachelor's degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	110	130	20	16.51	150	\$27,300	Bachelor's degree	None	None
25-4022	Librarians and Media Collections Specialists	230	260	30	12.72	250	\$39,020	Master's degree	None	None
25-9031	Instructional Coordinators	110	120	10	8.33	110	\$49,410	Master's degree	5 years or more	None
25-9045	Teaching Assistants, Except Postsecondary	1,260	1,360	100	7.7	1,290	\$18,980	Some college, no degree	None	None
27-1024	Graphic Designers	100	110	10	10.89	110	\$38,870	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	150	150	10	3.42	140	\$29,210	High school diploma or equivalent	None	Short-term on-the-job training
27-2022	Coaches and Scouts	170	200	40	20.71	290	\$27,440	Bachelor's degree	None	None
27-3031	Public Relations Specialists	100	120	10	12.5	110	*	Bachelor's degree	None	None
27-3043	Writers and Authors	110	110	10	7.62	110	\$48,610	Bachelor's degree	None	Long-term on-the-job
29-1021	Dentists, General	100	110	10	11.76	40	\$162,100	Doctoral or professional degree	None	None
29-1031	Dietitians and Nutritionists	60	70	10	11.86	50	\$62,660	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	50	60	10	11.32	20	\$77,620	Doctoral or professional degree	None	None
29-1051	Pharmacists	290	290	10	2.8	120	\$123,270	Doctoral or professional degree	None	None
29-1071	Physician Assistants	70	90	20	28.17	70	\$97,030	Master's degree	None	None
29-1123	Physical Therapists	110	130	20	18.92	70	\$95,490	Doctoral or professional degree	None	None
29-1126	Respiratory Therapists	80	100	20	23.46	60	\$58,510	Associate's degree	None	None
29-1127	Speech-Language Pathologists	90	120	20	26.37	90	\$59,380	Master's degree	None	Internship/residency
29-1141	Registered Nurses	2,500	2,750	250	10.13	1,610	\$65,700	Bachelor's degree	None	None
29-1171	Nurse Practitioners	80	120	40	55.7	100	\$107,390	Master's degree	None	None

Table 14: 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
29-1215	Family Medicine Physicians	120	130	10	8.2	40	\$193,300	Doctoral or professional degree	None	Internship/residency
29-1292	Dental Hygienists	150	160	20	12.41	110	\$81,690	Associate's degree	None	None
29-2010	Clinical Laboratory Technologists and Technicians	240	260	30	11.39	190	\$47,450	Bachelor's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	60	70	10	8.2	50	\$36,950	Associate's degree	None	None
29-2034	Radiologic Technologists and Technicians	190	210	20	9.95	160	\$53,330	Associate's degree	None	None
29-2040	Emergency Medical Technicians and Paramedics	330	380	50	16.26	280	\$31,560	Postsecondary non-	None	None
29-2052	Pharmacy Technicians	430	470	40	8.78	360	\$32,220	High school diploma or	None	Moderate-term on-
29-2053	Psychiatric Technicians	170	200	30	14.53	150	\$41,790	Postsecondary non-degree	Less than 5 years	Short-term on-the-job training
29-2055	Surgical Technologists	90	100	10	9.57	80	\$43,030	Postsecondary non-	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,500	1,660	160	10.96	1,360	\$41,920	Postsecondary non-	None	None
29-2081	Opticians, Dispensing	70	80	10	9.72	60	\$29,680	High school diploma or	None	Long-term on-the-job
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	190	200	20	9.68	160	\$43,470	Postsecondary non-	None	None
31-1120	Home Health and Personal Care Aides	1,930	2,580	650	33.56	3,360	\$19,490	High school diploma or	None	Short-term on-the-job
31-1131	Nursing Assistants	2,160	2,370	210	9.59	2,940	\$25,240	Postsecondary non-	None	None
31-2021	Physical Therapist Assistants	90	130	30	36.17	170	\$64,160	Associate's degree	None	None
31-9091	Dental Assistants	250	280	40	14.17	340	\$38,750	Postsecondary non-	None	None
31-9092	Medical Assistants	480	570	100	20.21	700	\$26,550	Postsecondary non-	None	None
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	110	140	20	20.35	220	\$28,970	High school diploma or	None	Short-term on-the-job
31-9097	Phlebotomists	80	100	20	23.46	120	\$28,160	Postsecondary non-degree	None	None
33-1012	First-Line Supervisors of Police and Detectives	130	150	20	16.67	110	\$48,100	High school diploma or	Less than 5 years	Moderate-term on-
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	120	140	30	21.37	150	\$69,730	High school diploma or equivalent	Less than 5 years	None
33-2011	Firefighters	170	200	30	17.75	170	\$31,140	Postsecondary non-	None	Long-term on-the-job
33-3012	Correctional Officers and Jailers	250	250	0	0	220	\$33,810	High school diploma or	None	Moderate-term on-
33-3021	Detectives and Criminal Investigators	80	80	10	9.09	70	\$58,320	High school diploma or	Less than 5 years	Moderate-term on-
33-3051	Police and Sheriff's Patrol Officers	690	800	110	15.72	670	*	High school diploma or equivalent	None	Moderate-term on-the-job
33-9031	Gambling Surveillance Officers and Gambling Investigators	310	360	60	17.92	490	\$29,840	High school diploma or	Less than 5 years	Moderate-term on-
33-9032	Security Guards	730	880	150	20.11	1,200	\$28,140	High school diploma or equivalent	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	70	80	10	20	100	\$48,620	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1,220	1,480	260	21.28	2,230	\$29,030	High school diploma or	Less than 5 years	None
35-2011	Cooks, Fast Food	1,040	1,040	10	0.58	1,510	\$18,510	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	1,510	2,190	680	44.81	3,350	\$21,650	No formal educational	Less than 5 years	Moderate-term on-
35-2021	Food Preparation Workers	1,080	1,200	120	11.4	2,070	\$19,340	No formal educational credential	None	Short-term on-the-job training
35-3023	Fast Food and Counter Workers	2,180	2,570	390	18.1	5,210	\$18,460	No formal educational	None	Short-term on-the-job
35-3031	Waiters and Waitresses	1,710	2,020	320	18.58	3,910	\$18,840	No formal educational credential	None	Short-term on-the-job training

Table 14: 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
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	220	270	60	26.05	480	\$19,970	No formal educational credential	None	Short-term on-the-job training
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	210	240	30	12.32	280	\$32,010	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	190	200	10	4.21	210	\$49,000	High school diploma or equivalent	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,850	2,040	190	10.32	2,770	\$23,580	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	1,120	1,270	150	13.18	1,730	\$20,740	No formal educational credential	None	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	800	870	70	8.39	1,140	\$26,610	No formal educational credential	None	Short-term on-the-job training
39-1013	First-Line Supervisors of Gambling Services Workers	250	290	40	16.19	320	\$40,990	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	80	100	30	32.47	120	\$32,440	High school diploma or equivalent	Less than 5 years	None
39-3011	Gambling Dealers	560	660	100	18.15	990	\$19,180	High school diploma or equivalent	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	90	110	20	22.73	230	\$19,510	No formal educational credential	None	Short-term on-the-job training
39-4021	Funeral Attendants	80	80	0	2.47	110	\$24,470	High school diploma or equivalent	None	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	300	340	40	14.33	390	\$19,840	Postsecondary non-degree award	None	None
39-9011	Childcare Workers	380	420	40	11.58	600	\$21,200	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	210	250	40	18.78	400	\$26,200	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	100	110	10	14.43	160	\$28,160	High school diploma or equivalent	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	1,850	1,820	-30	-1.52	1,890	\$31,030	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	230	220	-10	-2.65	190	\$59,870	High school diploma or equivalent	Less than 5 years	None
41-2011	Cashiers	3,840	3,610	-240	-6.17	6,500	\$20,330	No formal educational credential	None	Short-term on-the-job training
41-2012	Gambling Change Persons and Booth Cashiers	320	360	40	13.4	660	\$22,310	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	140	150	10	9.63	170	\$26,360	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	420	460	40	10.24	570	\$24,570	No formal educational credential	None	Moderate-term on-the-job
41-2031	Retail Salespersons	2,960	3,090	130	4.33	4,320	\$25,060	No formal educational credential	None	Short-term on-the-job training
41-3021	Insurance Sales Agents	320	390	80	23.51	390	\$39,490	High school diploma or equivalent	None	Moderate-term on-the-job
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	290	330	40	12.46	380	\$37,090	High school diploma or equivalent	None	Moderate-term on-the-job
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	120	130	10	7.69	130	\$88,170	Bachelor's degree	None	Moderate-term on-the-job
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	670	710	40	6.6	710	\$45,430	High school diploma or equivalent	None	Moderate-term on-the-job
41-9022	Real Estate Sales Agents	360	370	10	2.53	320	\$39,850	High school diploma or equivalent	None	Moderate-term on-the-job
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1,550	1,620	80	4.84	1,630	\$45,300	High school diploma or equivalent	Less than 5 years	None

Table 14: 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
43-3021	Billing and Posting Clerks	490	510	20	4.12	530	\$28,780	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,880	1,910	30	1.7	2,110	\$34,390	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gambling Cage Workers	310	360	50	15.65	400	\$22,520	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	170	150	-20	-10.98	150	\$42,310	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	110	110	0	0	100	\$43,240	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	650	620	-30	-4.31	630	\$24,130	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	240	280	40	17.72	300	\$30,330	High school diploma or equivalent	None	Long-term on-the-job training
43-4051	Customer Service Representatives	1,720	1,810	90	5.36	2,310	\$30,210	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	70	80	10	13.89	80	\$34,550	High school diploma or equivalent	None	Moderate-term on-the-job
43-4071	File Clerks	60	50	-10	-9.09	60	\$29,610	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	300	360	60	18.42	600	\$20,920	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	120	120	-10	-6.45	140	\$24,610	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	310	350	40	13.31	330	\$26,800	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	150	140	-10	-4.08	130	\$25,330	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	120	100	-20	-15.7	100	\$32,460	Some college, no degree	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	60	60	0	3.45	60	\$40,210	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	470	500	30	5.32	630	\$27,740	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	170	180	10	5.75	200	\$44,540	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	190	180	-10	-2.69	170	\$29,880	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Public Safety Telecommunicators	170	200	30	17.26	200	\$27,540	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	290	310	20	6.48	300	\$32,690	High school diploma or equivalent	None	Moderate-term on-the-job
43-5051	Postal Service Clerks	120	120	-10	-4.96	90	\$48,130	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	340	320	-10	-3.57	220	\$51,610	High school diploma or equivalent	None	Short-term on-the-job training

Table 14: 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
43-5061	Production, Planning, and Expediting Clerks	390	440	50	13.62	470	\$46,530	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Inventory Clerks	490	480	-10	-1.63	460	\$29,580	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	60	60	0	7.27	60	*	High school diploma or equivalent	None	Short-term on-the-job training
43-6013	Medical Secretaries and Administrative Assistants	700	780	90	12.48	880	\$31,820	High school diploma or equivalent	None	Moderate-term on-the-job
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,600	1,500	-100	-6.3	1,560	\$27,730	High school diploma or equivalent	None	Short-term on-the-job training
43-9021	Data Entry Keyers	110	90	-20	-15.6	90	\$29,030	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	1,680	1,680	0	0.24	1,920	\$26,960	High school diploma or equivalent	None	Short-term on-the-job training
45-2011	Agricultural Inspectors	70	70	10	9.23	110	\$36,250	Bachelor's degree	None	Moderate-term on-the-job
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	60	60	0	0	90	\$19,900	No formal educational credential	None	Short-term on-the-job training
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	560	610	50	9.73	600	\$60,160	High school diploma or equivalent	5 years or more	None
47-2031	Carpenters	280	290	10	3.64	270	\$39,080	High school diploma or equivalent	None	Apprenticeship
47-2051	Cement Masons and Concrete Finishers	140	140	0	0	120	\$36,210	No formal educational credential	None	Moderate-term on-the-job
47-2061	Construction Laborers	1,020	1,100	80	7.92	1,110	\$34,300	No formal educational credential	None	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	640	670	20	3.74	710	\$39,910	High school diploma or equivalent	None	Moderate-term on-the-job
47-2111	Electricians	310	340	30	9.29	360	\$51,720	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	120	120	10	6.9	110	\$29,080	No formal educational credential	None	Moderate-term on-the-job
47-2152	Plumbers, Pipefitters, and Steamfitters	400	440	40	8.93	460	\$45,290	High school diploma or equivalent	None	Apprenticeship
47-2211	Sheet Metal Workers	90	90	10	6.82	90	\$35,120	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	70	80	10	6.94	80	\$33,270	High school diploma or equivalent	None	Apprenticeship
47-4011	Construction and Building Inspectors	70	70	0	-1.41	80	\$42,030	High school diploma or equivalent	5 years or more	Moderate-term on-the-job
47-4051	Highway Maintenance Workers	250	290	40	17.96	320	\$30,450	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	430	500	70	17.21	610	\$35,000	High school diploma or equivalent	None	Moderate-term on-the-job
47-5013	Service Unit Operators, Oil and Gas	80	100	20	25.93	130	\$34,310	No formal educational credential	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	50	80	20	42.59	100	\$30,440	No formal educational credential	None	Moderate-term on-the-job

Table 14: 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
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	550	590	50	8.59	550	\$65,550	High school diploma or equivalent	Less than 5 years	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	60	60	0	6.78	70	\$54,070	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-3021	Automotive Body and Related Repairers	160	160	0	1.86	150	\$39,520	High school diploma or equivalent	None	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	340	350	10	2.33	350	\$23,110	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	300	330	30	8.94	310	\$37,520	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	200	240	30	15.2	240	\$44,310	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	80	100	20	18.75	110	\$41,060	High school diploma or equivalent	None	Long-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	80	90	10	15.58	80	\$43,620	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	400	420	30	6.57	410	\$38,590	Postsecondary non-degree award	None	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	280	360	80	27.92	350	\$56,160	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	520	620	100	18.39	600	\$60,700	High school diploma or equivalent	None	Long-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	150	160	10	4.67	140	\$72,620	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	220	230	10	2.25	250	\$71,000	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	1,330	1,480	150	11.15	1,460	\$31,400	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	150	170	20	9.8	200	\$29,940	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	200	210	10	5.58	220	\$34,880	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	750	830	80	10.21	850	\$56,830	High school diploma or equivalent	Less than 5 years	None
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	110	120	20	14.02	130	\$36,740	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2051	Fiberglass Laminators and Fabricators	60	70	10	9.52	80	\$31,910	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2090	Miscellaneous Assemblers and Fabricators	720	720	0	0	790	\$28,480	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	140	170	20	17.02	220	\$25,950	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	100	90	0	-1.05	110	\$25,690	No formal educational credential	None	Long-term on-the-job training
51-3023	Slaughterers and Meat Packers	60	70	10	8.33	80	\$25,120	No formal educational credential	None	Short-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	160	160	0	1.92	160	\$29,980	High school diploma or equivalent	None	Moderate-term on-the-job training

Table 14: 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
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	80	80	0	2.6	90	\$34,440	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	120	140	20	12.9	150	\$43,490	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	120	120	0	0	120	\$31,080	High school diploma or equivalent	None	Moderate-term on-the-job
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	190	220	30	16.06	240	\$32,730	High school diploma or equivalent	None	Moderate-term on-the-job
51-4121	Welders, Cutters, Solderers, and Brazers	690	790	100	13.71	870	\$37,620	High school diploma or equivalent	None	Moderate-term on-the-job
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	90	90	0	4.55	100	\$30,950	High school diploma or equivalent	None	Moderate-term on-the-job
51-5112	Printing Press Operators	80	70	-10	-7.89	70	\$30,630	High school diploma or equivalent	None	Moderate-term on-the-job
51-6011	Laundry and Dry-Cleaning Workers	380	410	30	9.07	550	\$22,880	No formal educational credential	None	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	310	360	50	15.06	360	\$30,010	High school diploma or equivalent	None	Moderate-term on-the-job
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	60	60	10	10.34	70	\$20,210	High school diploma or equivalent	None	Moderate-term on-the-job
51-8031	Water and Wastewater Treatment Plant and System Operators	460	490	30	5.65	450	\$25,560	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	150	150	0	0	150	\$49,170	High school diploma or equivalent	None	Moderate-term on-the-job
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	210	230	20	9.57	260	\$40,480	High school diploma or equivalent	None	Moderate-term on-the-job
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	370	340	-30	-7.88	390	\$44,130	High school diploma or equivalent	None	Moderate-term on-the-job
51-9111	Packaging and Filling Machine Operators and Tenders	190	220	20	11.34	240	\$25,870	High school diploma or equivalent	None	Moderate-term on-the-job
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	160	190	20	12.8	190	\$35,800	High school diploma or equivalent	None	Moderate-term on-the-job
51-9161	Computer Numerically Controlled Tool Operators	440	450	10	2.95	500	\$26,540	High school diploma or equivalent	None	Moderate-term on-the-job
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	150	190	40	24.03	210	\$28,720	High school diploma or equivalent	None	Long-term on-the-job training
51-9198	Helpers--Production Workers	180	180	0	-1.1	250	\$30,870	High school diploma or equivalent	None	Short-term on-the-job training
51-9199	Production Workers, All Other	60	70	10	8.33	70	\$25,850	High school diploma or equivalent	None	Moderate-term on-the-job
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	400	430	30	7.48	470	\$43,540	High school diploma or equivalent	Less than 5 years	None
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,630	1,740	110	6.75	1,940	\$42,660	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck Drivers	500	540	40	7.36	610	\$32,160	High school diploma or equivalent	None	Short-term on-the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	490	550	60	12.63	670	\$22,040	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	180	190	10	7.3	260	\$25,080	No formal educational credential	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	800	860	70	8.15	950	\$32,990	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	230	260	20	9.44	360	\$28,270	No formal educational credential	None	Short-term on-the-job training

Table 14: 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
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,540	1,710	170	10.77	2,290	\$26,020	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	50	60	10	11.11	80	\$26,880	No formal educational credential	None	Short-term on-the-job training
53-7065	Stockers and Order Fillers	1,710	1,850	150	8.74	2,900	\$25,740	High school diploma or equivalent	None	Short-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	180	210	30	14.75	290	\$29,250	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).