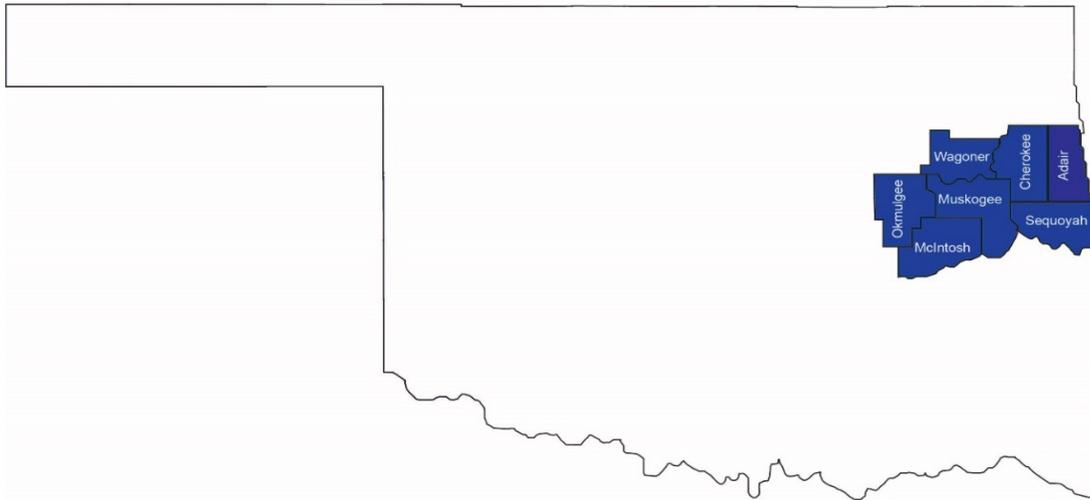


# EASTERN OKLAHOMA WORKFORCE DEVELOPMENT AREA



## 2020 LOCAL BRIEFING



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## Introduction

The Eastern Oklahoma Workforce Development Area (WFDA) is composed of seven Oklahoma counties: Adair, Cherokee, McIntosh, Muskogee, Okmulgee, Sequoyah, and Wagoner. According to the U.S. Census Bureau, this combined region of Oklahoma covers 4,912 square miles and is home to over 319,000 residents. The following briefing reviews the population, education, labor force, economic indicators, and regional industry clusters for the Eastern Oklahoma WFDA.

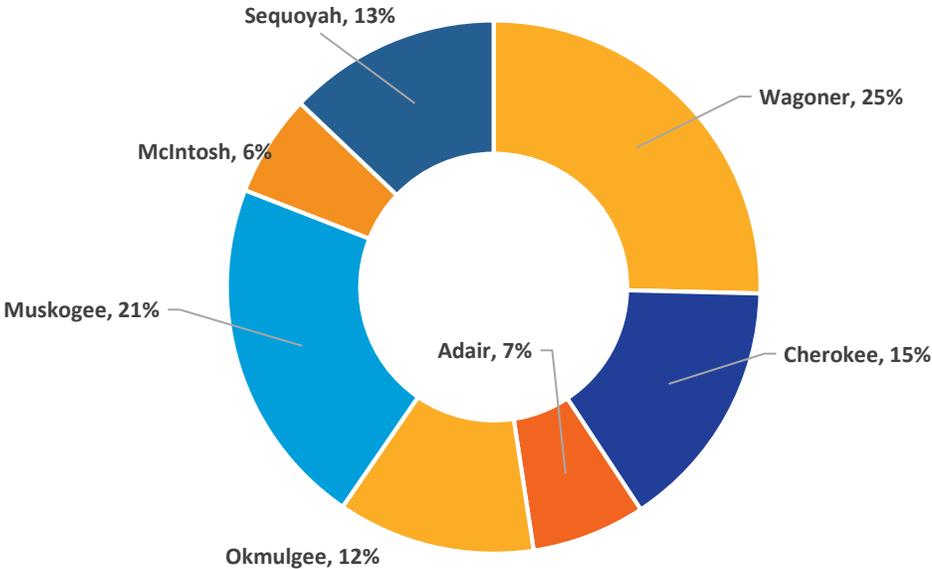
## Population Overview

Overall, Eastern WFDA population grew by 1%. Wagoner County had the largest growth rate of 7% from 2014-2019. Cherokee County had the second largest growth rate of 1%. Okmulgee County and Muskogee County had the smallest growth rate of -2%. Density per square mile remained constant at 65 persons. The highest density was in Wagoner County with 137 persons per square mile. The second highest density was in Muskogee County with 81 persons per square mile. The lowest density was in McIntosh County with 28 persons per square mile.

## Population by County

Figure 1 shows Eastern WFDA percentage of population by county. This figure shows Wagoner County had the largest population representing 25% of the population in Eastern WFDA. Muskogee County had the second largest population representing 21% of the population in Eastern W DFA. McIntosh County had the smallest population representing 6% of the population in Eastern W DFA.

Figure 1: Percentage of Population by County



Source: Emsi- economicmodeling.com- 2020.1

Table 1 shows the population change from 2014 to 2019. The Wagoner County population is 81,059 making it the largest population in Eastern WFDA. The Muskogee County population is 68,153, which is the second largest population in Eastern WFDA. The McIntosh County population is 19,745, which is the smallest population in Eastern WFDA.

**Table 1: Population Change, 2014-2019**

County	2014 Population	2019 Population	Total Change
Wagoner	75,662	81,059	5,396
Cherokee	48,239	48,931	692
Adair	22,236	22,020	(216)
Okmulgee	39,097	38,251	(846)
Muskogee	69,743	68,153	(1,590)
McIntosh	19,961	19,745	(215)
Sequoyah	41,452	41,180	(272)
<b>Total</b>	<b>316,390</b>	<b>319,339</b>	<b>2,949</b>

Source: Emsi- economicmodeling.com- 2020.1

Table 2 shows the projected population change from 2019 to 2024. Two counties are projected to increase while the other counties are projected to decrease.

**Table 2: Projected Population Change, 2019-2024**

County	2019 Population	2024 Population	Total Change
Adair	22,020	21,955	(65)
Cherokee	48,931	49,406	475
McIntosh	19,745	19,685	(61)
Muskogee	68,153	67,115	(1,038)
Okmulgee	38,251	37,472	(779)
Sequoyah	41,180	41,071	(109)
Wagoner	81,059	85,179	4,120
<b>Total</b>	<b>319,339</b>	<b>321,883</b>	<b>2,544</b>

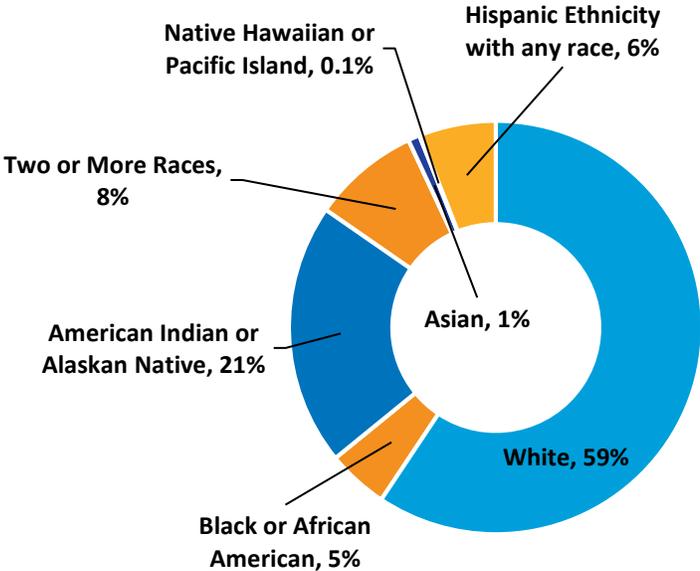
Source: Emsi- economicmodeling.com- 2020.1

## Population by Race and Ethnicity

The following analyses used the racial categories designated by the U.S. Census Bureau. The Census Bureau categorizes "Hispanic," not as a race, but as an ethnicity. 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 2 provides Eastern WFDA population by Race and Ethnicity by percentage. This figure shows that white had the highest percentage of the population in at 59%. American Indian or Alaskan Native with any race had the second highest percentage of the population at 21%. Native Hawaiians or Pacific Islander had the smallest amount of the population at .1%.

**Figure 2: Population by Race and Ethnicity**



Source: Emsi- economicmodeling.com- 2020.1

Table 3 provides Eastern WFDA 2019 population by Race and Ethnicity. This table shows that White has the largest population at 189,544. American Indian or Alaskan Native with any race had the second largest population at 65,582. Native Hawaiians or Pacific Islander had the small amount of the population at 195.

**Table 3: Population by Race & Ethnicity**

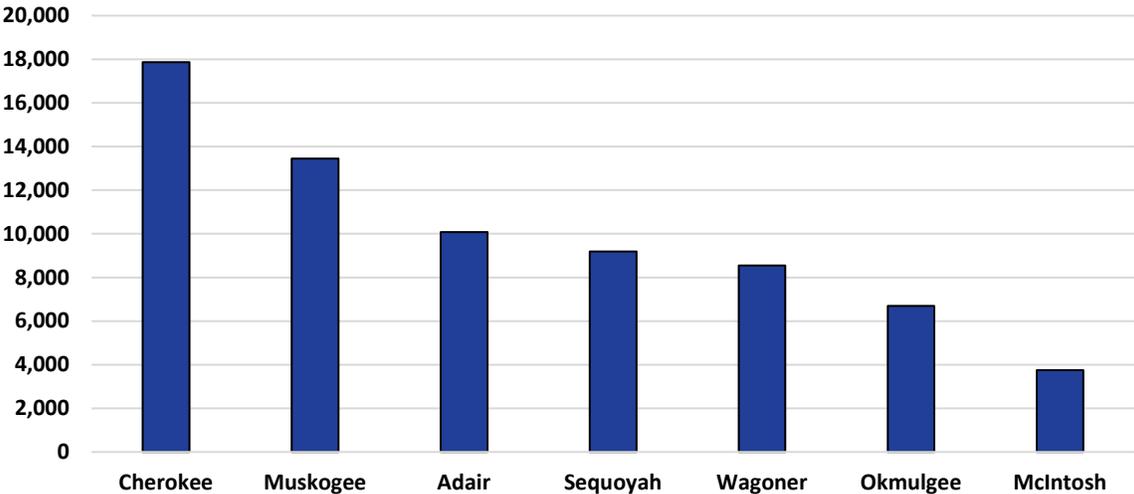
Demographic	2019 Population
White	189,544
Black or African American	15,217
American Indian or Alaskan Native	65,582
Two or More Races	26,846
Asian	2,892
Native Hawaiian or Pacific Island	195
Hispanic Ethnicity with any race	19,063

Source: Emsi- economicmodeling.com- 2020.1

**American Indian or Alaska Native Population**

In the Eastern WFDA, the American Indian or Alaskan Native Population was the largest non-white population. The American Indian or Alaskan Native population is 69,586 in the Eastern WDFDA, and the Non- American Indian or Alaskan Native population is 249,755. American Indian or Alaskan Native represents 22% of the population in Eastern WDFDA, compared to 9% in Oklahoma, and 1% in the United States.

**Table 4: American Indian or Alaskan Native Population**



Source: Emsi- economicmodeling.com- 2020.1

## 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 labor and skills to be competitive in today's economy. The following section reviews Eastern WFDA's educational attainment and an educational skills gap analysis.

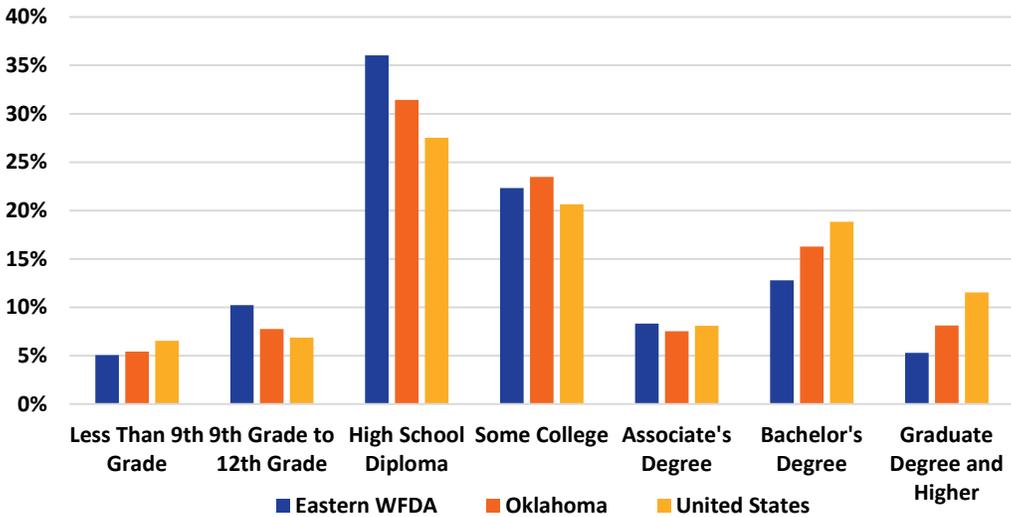
### Educational Attainment

Figure 3 shows the Eastern WFDA Education Attainment Level. High School Graduates had the largest population at 36%. The second highest share of the population was Some College at 22%. The third highest share of the population is Bachelor's Degree at 13%. The fourth highest population was 9th grade to 12th grade at 10%. The fifth highest share of the population was Associate's Degree at 8%. Lastly, the smallest share of population was both Graduate Degree or Higher or Less than 9th Grade at 5%.

In Oklahoma, High School Diploma had the highest share of the population at 31%. The second highest share of the population was Some College, at 23%. The third highest share of the population is Bachelor's Degree at 16%. The fourth share highest share of the population is Graduate Degree and Higher, Associate's Degree, and 9<sup>th</sup> Grade to 12 Grade at have the same share of the population at 8%. The smallest group is less than 9<sup>th</sup> grade at 5%.

In the United States, High School Diploma had the highest share of the population at 28%. The next is Some College at 21%. The third highest population is Bachelor's Degree at 16%. The fourth largest group is Graduate Degree at 12%. The fifth largest group is the Associate's Degree at 8%. Lastly the smallest groups are Less than 9<sup>th</sup> grade and 9<sup>th</sup> grade to 12<sup>th</sup> grade at 7%.

Figure 3: Education Attainment Level



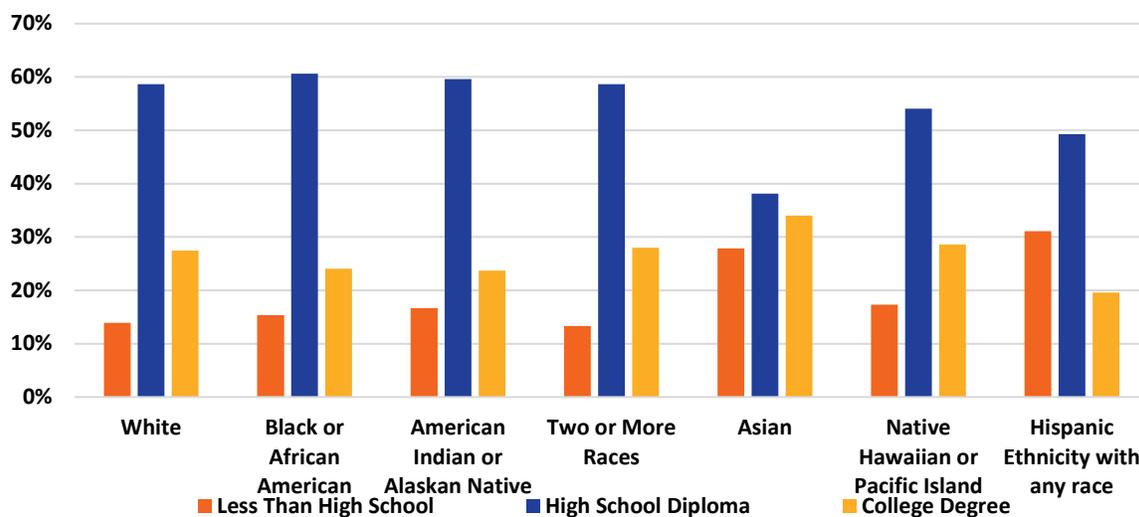
Source: Emsi- economicmodeling.com- 2020.1

Figure 4 shows the breakdown of education by race and ethnicity. High School Diploma had the largest share of the population with 125,445 individuals. White High School Graduates had the highest share of this population with 82,883. American Indian or Alaskan Native had the second highest share of the population with 23,565. Two or more races had the third highest share of the population 7,729. Black or African American had the fourth highest share of the population at 6,106. Hispanic Ethnicity with any race had the fifth highest share of the population at 4,404. Asian had the sixth highest share of the population at 685. Lastly, Native Hawaiian or Pacific Island had the smallest share of the population with 72.

College Degree had the second largest share of the population with 56,665 individuals. White had the highest share of this population with 38,786. American Indian or Alaskan Native had the second highest share of the population with 9,366. The third highest share of the population was Two or More Races at 3,690. Black or African American had the fourth highest share of the population at 2,425. Hispanic Ethnicity with any race had fifth highest share of the population with 1,749. Asian had the sixth highest share of the population with 611. Lastly, Native Hawaiian or Pacific Island had the smallest share of the population with 38.

Less than High School had the smallest share of the population with 32,834 individuals. White had the highest share of this population with 19,644, or 9%. American Indian or Alaskan Native had the second highest share of the population with 6,587, or 3%. Hispanic Ethnicity with any race was the third largest highest share of the population 2,778, or 1%. Two or more races had the fourth highest share of the population with 1,756, or 1%. Black or African American had the fifth highest share of the population with 1,545, or 1%. Asian had the sixth highest share of the population with 500, or .2%. Lastly, Native Hawaiian or Pacific Island had the smallest share of the population with 23, or .01%.

**Figure 4: Education Attainment Level by Race/Ethnicity**



Source: Emsi- economicmodeling.com- 2020.1

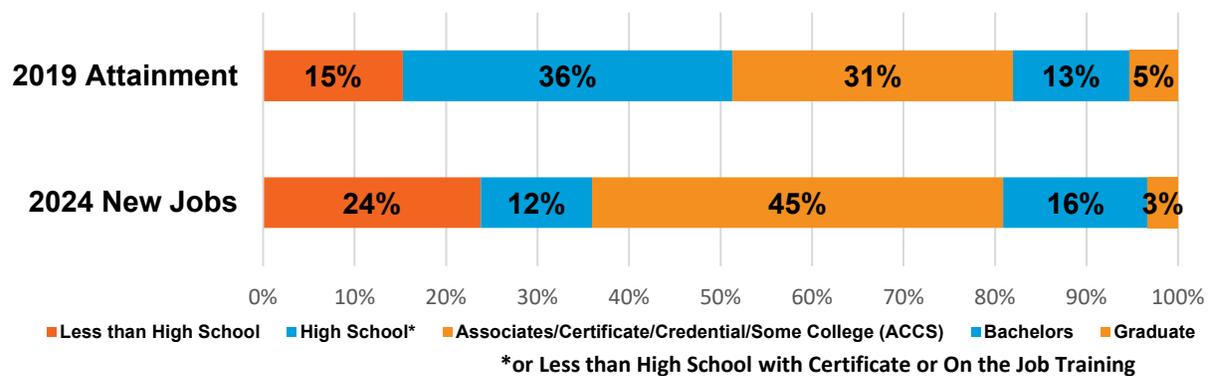
## Skills Gap

A skills gap analysis was completed. The current percentage of educational achievement of residents was directly compared to the percentage of entry level education required by newly created jobs projected to develop between 2019 and 2024.

The data in this analysis were based upon projected need estimated with historical data. The projected shortfall at the Bachelor’s degree level will be significantly compounded by a misalignment of degree specialty. The existence of a sufficient number of individuals possessing a Bachelor’s Degree fails to meet the needs of employers if those degrees do not provide the appropriate training necessary to fulfill job requirements.

Figure 5 is the skills gap shown by the forecast of new jobs in the next five years matched with the current level of education attainment. The greatest need or deficiency for workers is the group of Associates, Certificates, Some College, and Credential with a deficit is 14%, from the subtraction of 45% of new jobs in 2025, and the attainment level in 2019 of 31%. The greatest surplus is those with a High School. This surplus is 24%, from the subtraction of 12% of new jobs, and the 36% attainment in 2019.

**Figure 5: Local Skills Gap Analysis**



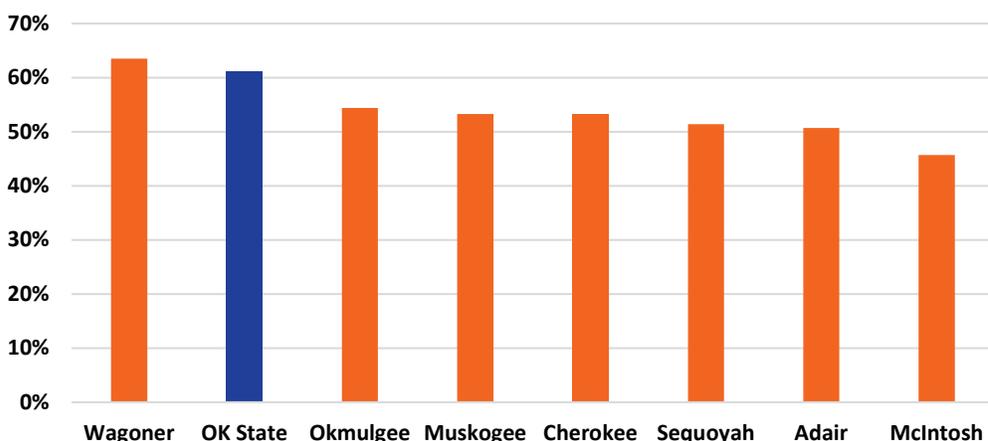
Source: Emsi- economicmodeling.com- 2020.1

## Labor Force

### Labor Force Participation by County

Figure 6 shows the Eastern WFDA labor force participation rate by county. The highest percentage is in Wagoner County at 63.5%. The second highest is in Okmulgee County at 54.4%. The third highest is in Muskogee County at 53.3%. The fourth highest is in Cherokee County at 53.2%. The fifth highest is in Sequoyah County at 51.4%. The sixth highest is in Adair County at 50.7%. Lastly, the lowest percentage is in Jefferson County at 45.7%.

**Figure 6: Labor Force Participation Rate by County**



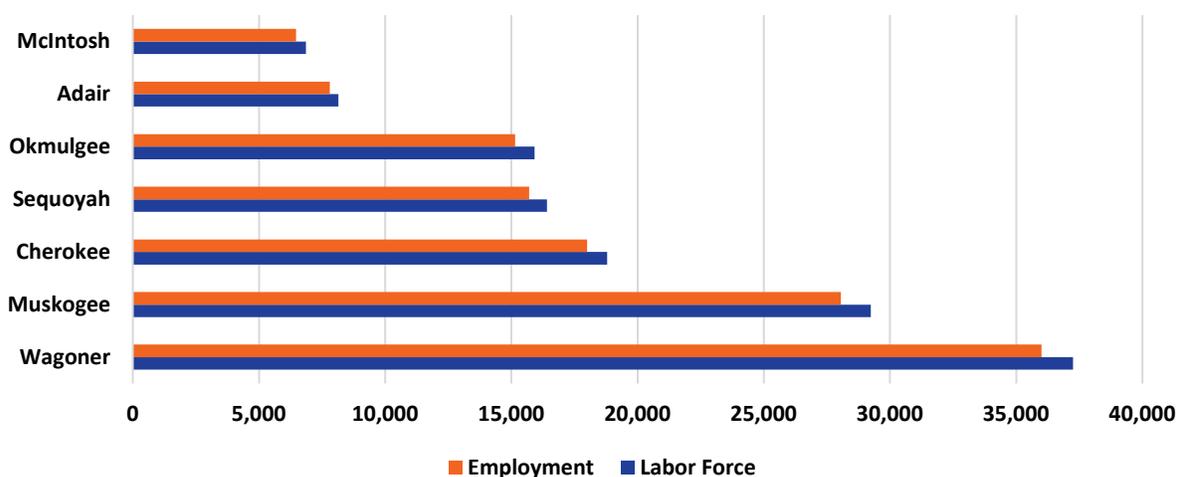
Source: American Community Survey (ACS) 2018 5-Year Estimates

### Total Employment by County

Figure 7 compares the total employment and the total labor force for the Eastern WFDA by county. The largest employment was found in Wagoner County at 36,008. The second largest is in Muskogee County at 28,057. The third largest is in Cherokee County at 18,001. The fourth largest is in Sequoyah County at 15,699. The fifth largest is in Okmulgee County at 15,142. The sixth largest is in Adair County at 7,811. The smallest labor force was in McIntosh County at 6,463.

The largest labor force was found in Wagoner County at 37,252. The second largest is in Muskogee County at 29,238. The third largest is in Cherokee County at 18,796. The fourth largest is in Sequoyah County at 16,406. The fifth largest is in Okmulgee County at 15,918. The sixth largest is in Adair County at 8,151. The smallest labor force was in McIntosh County at 6,865.

**Figure 7: Total Employment and Labor Force by County**



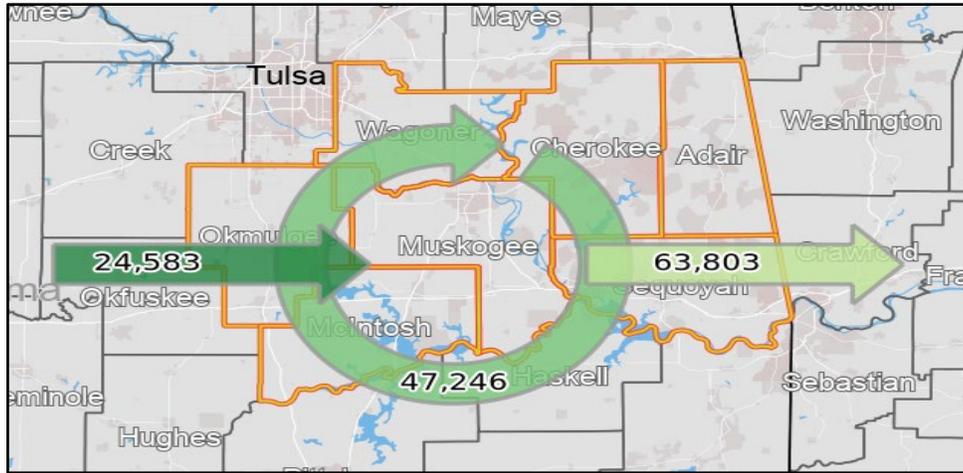
Source: 2018 Bureau of Labor Statistics (BLS), Local Area Unemployment Statistics (LAUS)

## 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 the Eastern WFDA, 24,583 work in the area and did not live there (See Figure 8). 47,246 lived there and worked there. 63,803 lived in Eastern WFDA and worked outside the area.

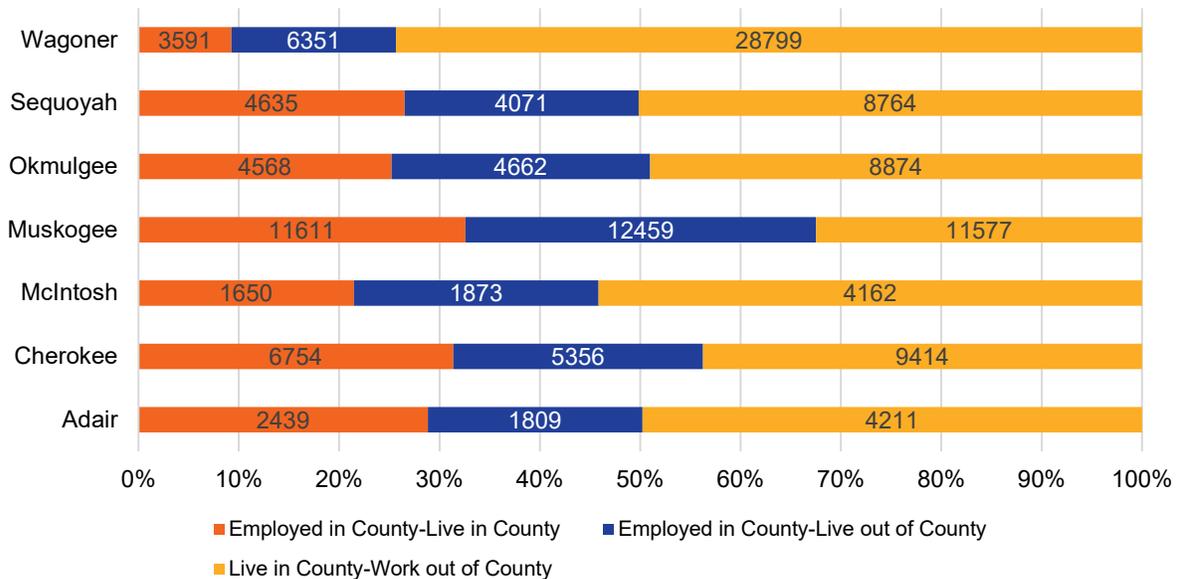
**Figure 8: Total Local Area Commuter Patterns**



Source: Center of Economic Studies (CES), OnTheMap, 2017

Figure 9 provides a county level analysis on each individual county.

**Figure 9: County Level Commuter Patterns**



Source: Center of Economic Studies (CES), OnTheMap, 2017

## Economic Indicators

### Industry Sectors 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).

There was an estimated 85,791 number of total jobs in Eastern WFDA in 2019. Table 5 shows the top employment industrial sectors in Eastern WFDA. The largest sector is Government with 29,503 jobs. The second largest sector was Retail Trade with 10,647 jobs. The tenth largest sectors was Agriculture, Forestry, Fishing and Hunting with 1,819 jobs.

**Table 5: Top Industry Sectors by Total Number of Jobs**

NAICS	Description	2019 Jobs	Percentage of Total Employment
90	Government	29,503	34.39%
44	Retail Trade	10,647	12.41%
62	Health Care and Social Assistance	10,044	11.71%
31	Manufacturing	7,845	9.14%
72	Accommodation and Food Services	6,920	8.07%
23	Construction	4,040	4.71%
56	Administrative and Support and Waste Management and Remediation Services	2,574	3.00%
81	Other Services (except Public Administration)	2,495	2.91%
52	Finance and Insurance	2,145	2.50%
11	Agriculture, Forestry, Fishing and Hunting	1,819	2.12%

Source: Emsi- [economicmodeling.com](http://economicmodeling.com)- 2020.1

### Top Occupations by Total Jobs

The Standard Occupational Classification (SOC) system is used by Federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data. Additional analyses that follow are based upon data examined utilizing SOC occupational codes. The following information is provided to enhance understanding of the framework of these analyses.

All workers are classified into one of 840 detailed occupations according to their occupational definition. To facilitate classification, detailed occupations are combined to form 461 broad occupations, 97 minor groups, and 23 major groups. Detailed occupations in the SOC with

similar job duties, and in some cases, skills, education, and/or training, are grouped together. Recently, the 2018 system for SOC was implemented, replacing the 2010 version. Additional information is available at [www.bls.gov/soc/](http://www.bls.gov/soc/).

Table 6 shows the top occupations by total number of jobs in the Eastern WFDA. Cashiers had the highest number of jobs at 3,001. Retail Salespersons had the second highest number of jobs at 2,338. The tenth highest number of jobs were Janitors and Cleaners, Except Maids and Housekeeping Cleaners at 1,212.

**Table 6: Top Occupations by Total Number of Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
41-2011	Cashiers	3,001	3,038	37	\$9.13	No formal educational credential	Short-term on-the-job training
41-2031	Retail Salespersons	2,338	2,502	164	\$11.21	No formal educational credential	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	2,016	2,203	187	\$8.28	No formal educational credential	Short-term on-the-job training
43-9061	Office Clerks, General	1,464	1,506	42	\$12.03	High school diploma or equivalent	Short-term on-the-job training
29-1141	Registered Nurses	1,453	1,472	19	\$29.13	Bachelor's degree	None
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,403	1,386	(17)	\$13.03	High school diploma or equivalent	Short-term on-the-job training
31-1014	Nursing Assistants	1,376	1,365	(11)	\$11.53	Postsecondary nondegree award	None
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	1,484	142	\$11.05	No formal educational credential	Short-term on-the-job training
25-2021	Elementary School Teachers, Except Special Education	1,337	1,310	(27)	\$18.06	Bachelor's degree	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,212	1,260	48	\$10.38	No formal educational credential	Short-term on-the-job training

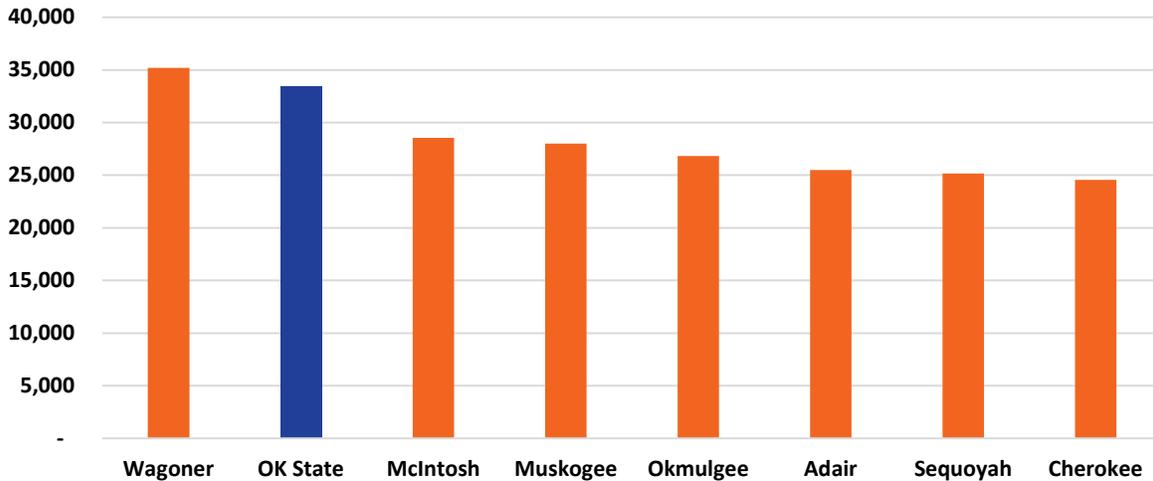
Source: Emsi- [economicmodeling.com](http://economicmodeling.com)- 2020.1

## Median Wage

Figure 10 provides the median wage of those over the age of 16. The highest wage was found in Wagoner County at \$35,189. The second highest wage was in McIntosh County at

\$28,560. The third highest was in Muskogee County at \$27,991. The fourth highest wages were found in Okmulgee County at \$26,827. Adair County has the fifth highest wages at \$25,486. The sixth highest wage was in Sequoyah County at \$25,161. Lastly, the lowest median wage is in Cherokee County at \$24,542.

**Figure 10: Median Wage by County**

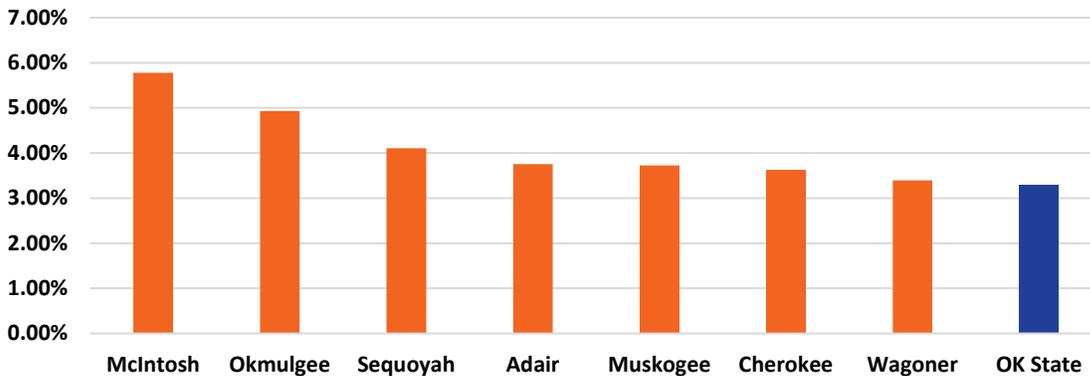


Source: American Community Survey (ACS) 2018 5-Year Estimates

## Unemployment Rate

Figure 11 shows the unemployment rate for Eastern WFDA. The highest unemployment was found in McIntosh County with an unemployment rate of 5.78%. The second highest unemployment was found in Okmulgee County with an unemployment rate of 4.93%. The third highest unemployment rate was in Sequoyah County with an unemployment rate of 4.11%. The fourth highest unemployment rate was in Adair County at 3.75%. The fifth highest unemployment rate was in Muskogee County at 3.72%. The sixth highest unemployment rate was in Cherokee County at 3.63%. Lastly, the lowest unemployment rate was found in Wagoner County with an unemployment rate of 3.39%.

**Figure 11: Unemployment Rate**



Source: Emsi- economicmodeling.com- 2020.1

## Industry Clusters

Oklahoma Department of Commerce has identified five key, in demand, industry clusters for the state of Oklahoma (also known as Ecosystems). Industry clusters provide a competitive advantage in a global economy. They exhibit significant potential for employment growth and provide wealth generating employment opportunities. Regional industry clusters have been identified for each Local Workforce Development Area

### State Industry Clusters

The five State Industry Cluster's demand industries produce or provide similar goods and services and therefore have similar needs in workforce, infrastructure, and economic development policy. These ecosystems include Aerospace and Defense, Agriculture and Biosciences, Energy, Information and Finance, and Transportation and Distribution.

### Regional Industry Clusters

In addition to the five State Industry clusters, Regional Industry Clusters have been identified. The regional clusters for the Eastern WFDA are Industrial, Transportation and Distribution, Utilities Generation, Transmission and Energy Pipelines, Professional Services, Healthcare, and STEM.

The source data to start the process was establishment level data from over 100,000 business establishments in the state. Major employers are non-retail sector establishments that are among the top twenty percent of employing establishments in their respective counties. Retail was excluded since it is dependent on other sectors of the economy employing people and generating economic activity. Ensuring other sectors are successful will impact the success of the retail sector.

The clusters were informed by the methodology utilized by the Harvard Business School and the Economic Development Administration. In order to report data in a meaningful manner, there was some customization grouping linked industries. After identifying the top twenty percent of the major employers in each of the counties, they were grouped into industry clusters in their regional economy. Establishment level data from the Quarterly Census of Employment & Wages was utilized as the primary data source in the cluster identification. Since confidentiality must be maintained, in order to report the results, the data must be aggregated by clusters and geography.

Major employers include traditional sectors targeted in economic development including manufacturing, energy and knowledge-based service industries. It also includes other sectors that are not targeted in economic development but are important to the local region and have demands on workforce skills. These sectors include, but not limited to, agriculture, construction, utilities, healthcare, education, government, tourism and hospitality.

Table 7 summarizes the industry clusters in Eastern WFDA. The highest expected growth is in the Industrial cluster with an expected growth of 867 jobs. The next highest expected growth cluster is in Transportation and Distribution with 780 jobs. The sixth highest expected growth is in Utilities Generation, Transmission & Energy Pipelines with 197 jobs. Estimated Net job growth is based upon the indirect effect of those industries. While, there can be a

growth in the support of an industry in customers service or management, there can be a decrease in those jobs directly in the industry.

**Table 7: Regional Industry Clusters**

State Industry Clusters	Estimated Net Job Growth (2019-2024)	Industry Cluster Growth Rate (2019-2024)	Average Annual Earnings
Industrial	867	1%	\$69,492
Transportation and Distribution	780	9%	\$55,270
Utilities Generation, Transmission & Energy Pipelines	197	(11%)	\$125,594
Professional Services	356	(0%)	\$62,667
Healthcare	490	1%	\$43,119
STEM	385	9%	\$80,164

Source: Emsi- economicmodeling.com- 2020.1

## Healthcare

In 2019 there were 12,463 jobs in the Eastern WFDA Healthcare Industry Cluster with average earnings of \$43,119. Based on demand projections, jobs within the Industry Cluster will increase by 145 jobs totaling 12,608 jobs by the year 2024.

Shown in Table 8 is the top industries in the Eastern WFDA Healthcare Industry Cluster. Nursing Care Facilities (Skilled Nursing Facilities) had the highest number of job with 2,073. General Medical and Surgical Hospitals had the second highest number of jobs with 1,462. The tenth highest number of jobs is in Outpatient Mental Health and Substance Abuse Centers at 365.

**Table 8: Top Healthcare Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
623110	Nursing Care Facilities (Skilled Nursing Facilities)	2,073	\$31,590
622110	General Medical and Surgical Hospitals	1,462	\$59,457
903622	Hospitals (Local Government)	1,333	\$64,666
621610	Home Health Care Services	1,170	\$32,955
624120	Services for the Elderly and Persons with Disabilities	960	\$21,895
621111	Offices of Physicians (except Mental Health Specialists)	761	\$67,938
446110	Pharmacies and Drug Stores	459	\$43,534
624410	Child Day Care Services	434	\$18,881
621210	Offices of Dentists	387	\$59,869
621420	Outpatient Mental Health and Substance Abuse Centers	365	\$44,757

Source: EMSI-Economicmodeling.com 2020.1

**Table 9: Top Healthcare Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
621910	Ambulance Services	249	381	132	53%
621420	Outpatient Mental Health and Substance Abuse Centers	365	484	119	33%
621498	All Other Outpatient Care Centers	113	165	52	46%
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	133	178	45	34%
623312	Assisted Living Facilities for the Elderly	105	139	34	32%
624190	Other Individual and Family Services	135	168	33	24%
624120	Services for the Elderly and Persons with Disabilities	960	992	32	3%
624410	Child Day Care Services	434	461	27	6%
623220	Residential Mental Health and Substance Abuse Facilities	69	93	24	35%
623210	Residential Intellectual and Developmental Disability Facilities	314	337	23	7%

Source: EMSI-Economicmodeling.com 2020.1

Table 10 shows the top jobs in the Eastern WFDA Healthcare cluster. Cashiers had the highest number of jobs in this cluster with 3,001. Office Clerks, General had the second highest number of jobs in this cluster with 1,464. The tenth highest number of jobs in this cluster is Maintenance and Repair Workers, General with 969.

**Table 10: Top Healthcare Occupations by Number of Current Jobs**

SOC	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
41-2011	Cashiers	3,001	\$9.13	No formal educational credential	Short-term on-the-job training
43-9061	Office Clerks, General	1,464	\$12.03	High school diploma or equivalent	Short-term on-the-job training
29-1141	Registered Nurses	1,453	\$29.13	Bachelor's degree	None
31-1014	Nursing Assistants	1,376	\$11.53	Postsecondary nondegree award	None
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	\$11.05	No formal educational credential	Short-term on-the-job training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1,064	\$19.90	High school diploma or equivalent	None
39-9021	Personal Care Aides	1,007	\$9.59	High school diploma or equivalent	Short-term on-the-job training
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
49-9071	Maintenance and Repair Workers, General	969	\$14.49	High school diploma or equivalent	Moderate-term on-the-job training

Source: EMSI-Economicmodeling.com 2020.1

Table 11 shows the Eastern WFDA Healthcare emerging jobs by growth from 2019 to 2024. Laborers and Freight, Stock, and Material Movers, Hand is expected to have the most growth with 142. The second highest expect growth is in General and Operations Managers with 82. The job with the ten largest expected growth is in Registered Nurses with 19 jobs.

**Table 11: Top Healthcare Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	1,484	142	10.58%	\$11.05
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
49-9071	Maintenance and Repair Workers, General	969	1,023	54	5.58%	\$14.49
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	225	269	44	19.57%	\$19.60
43-9061	Office Clerks, General	1,464	1,506	42	2.87%	\$12.03
41-2011	Cashiers	3,001	3,038	37	1.23%	\$9.13
51-1011	First-Line Supervisors of Production and Operating Workers	501	524	23	4.59%	\$26.31
43-4051	Customer Service Representatives	1,002	1,024	22	2.20%	\$12.78
21-1093	Social and Human Service Assistants	98	117	19	19.38%	\$13.12
29-1141	Registered Nurses	1,453	1,472	19	1.31%	\$29.13

Source: EMSI-Economicmodeling.com 2020.1

## STEM

In 2019 there were 529 jobs in the Eastern WFDA STEM Industry Cluster with average earnings of \$80,164. Based on demand projections jobs within the STEM Cluster will increase by 50 jobs totaling 579 jobs by the year 2024.

Table 12 shows the top industries in the Eastern WFDA STEM Clusters. The industry with the highest number of jobs is Engineering Services with 69. The second highest number of job is in Offices of Mental Health Practitioners (except Physicians) at 57. The tenth highest number of jobs is the Computer Systems Design Services with 24.

**Table 12: Top STEM Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
541330	Engineering Services	69	\$87,183
621330	Offices of Mental Health Practitioners (except Physicians)	57	\$48,579
517312	Wireless Telecommunications Carriers (except Satellite)	48	\$53,609
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing	47	\$57,799
541370	Surveying and Mapping (except Geophysical) Services	41	\$54,634
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	40	\$83,824
541511	Custom Computer Programming Services	31	\$89,230
325412	Pharmaceutical Preparation Manufacturing	25	\$157,307
517911	Telecommunications Resellers	25	\$104,278
541512	Computer Systems Design Services	24	\$123,486

Source: EMSI-Economicmodeling.com 2020.1

Table 13 shows the top emerging industries in Eastern WFDA STEM clusters by growth of total jobs from 2019-2024. The largest expected growth was in Offices of Mental Health Practitioners (except Physicians) with a growth of 20. The second largest expected growth was in Surveying and Mapping (except Geophysical) Services with growth of 12. The tenth largest expected growth was in Architectural Services with a change of 0.

**Table 13: Top STEM Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
621330	Offices of Mental Health Practitioners (except Physicians)	57	77	20	35%
541370	Surveying and Mapping (except Geophysical) Services	41	53	12	29%
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing	47	57	10	21%
517312	Wireless Telecommunications Carriers (except Satellite)	48	58	10	21%
541511	Custom Computer Programming Services	31	40	9	29%
541519	Other Computer Related Services	13	21	8	62%
325412	Pharmaceutical Preparation Manufacturing	25	31	6	24%
541360	Geophysical Surveying and Mapping Services	13	19	6	46%
517911	Telecommunications Resellers	25	28	3	12%
541310	Architectural Services	19	19	0	0%

Source: EMSI-Economicmodeling.com 2020.1

Table 14 shows the top jobs in Eastern WFDA STEM cluster for 2019. The highest number of jobs is in Office Clerks, General at 1,464. The second highest number of jobs is in Secretaries and Administrative Assistants, Except Legal, Medical, and Executive at 1,403. The tenth number of job was in Inspectors, Testers, Sorters, Samplers, and Weighers at 211.

**Table 14: Top STEM Occupations by Number of Current Jobs**

SOC	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
43-9061	Office Clerks, General	1,464	\$12.03	High school diploma or equivalent	Short-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,403	\$13.03	High school diploma or equivalent	Short-term on-the-job training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	576	\$11.94	High school diploma or equivalent	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	501	\$26.31	High school diploma or equivalent	None
15-1151	Computer User Support Specialists	305	\$22.06	Some college, no degree	None
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	256	\$12.31	High school diploma or equivalent	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	215	\$22.08	High school diploma or equivalent	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	211	\$19.14	High school diploma or equivalent	Moderate-term on-the-job training

Source: EMSI-Economicmodeling.com 2020.1

Table 15 shows the emerging jobs by growth from 2019 to 2024 in the Eastern WFDA STEM cluster. The largest expected growth in number of jobs was in General and Operations Managers with an increase of 82. The second largest expected growth was in Office Clerks, General with 42. The tenth largest expected growth was in Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products with 15 jobs.

**Table 15: Top STEM Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
43-9061	Office Clerks, General	1,464	1,506	42	2.87%	\$12.03
13-1199	Business Operations Specialists, All Other	145	173	28	19.25%	\$30.91
41-3099	Sales Representatives, Services, All Other	215	240	25	11.63%	\$22.08
13-1161	Market Research Analysts and Marketing Specialists	154	177	23	14.98%	\$22.70
51-1011	First-Line Supervisors of Production and Operating Workers	501	524	23	4.59%	\$26.31
43-4051	Customer Service Representatives	1,002	1,024	22	2.20%	\$12.78
13-1111	Management Analysts	131	148	17	12.96%	\$33.56
51-9111	Packaging and Filling Machine Operators and Tenders	156	172	16	10.28%	\$11.93
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	160	175	15	9.39%	\$32.30

Source: EMSI-Economicmodeling.com 2020.1

## Transportation and Distribution

In 2019 there were 3,349 jobs in the Eastern WFDA Transportation and Distribution Industry Cluster with average earnings of \$55,270. Based on demand projections jobs within the Transportation and Distribution Industry Cluster will increase 313 jobs totaling 3,662 jobs by the year 2024.

Shown in Table 16 is the top industries in the Eastern WFDA Transportation and Distribution Industry Cluster. General Freight Trucking, Long-Distance had the highest number of job with 363. General Warehousing and Storage had the second highest number of jobs with 284. The tenth highest number of jobs is in Recyclable Material Merchant Wholesalers at 111.

**Table 16: Top Transportation and Distribution Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
48412	General Freight Trucking, Long-Distance	363	\$59,075
49311	General Warehousing and Storage	284	\$41,345
42383	Industrial Machinery and Equipment Merchant Wholesalers	267	\$58,511
33639	Other Motor Vehicle Parts Manufacturing	228	\$57,929
48211	Rail Transportation	228	\$85,354
42449	Other Grocery and Related Products Merchant Wholesalers	182	\$46,455
48422	Specialized Freight (except Used Goods) Trucking, Local	171	\$51,259
42481	Beer and Ale Merchant Wholesalers	156	\$60,579
42351	Metal Service Centers and Other Metal Merchant Wholesalers	150	\$55,846
42393	Recyclable Material Merchant Wholesalers	111	\$53,327

Source: EMSI-Economicmodeling.com 2020.1

Table 17 is the top Emerging Occupations in the Eastern WFDA transportation and distribution with the largest change from 2019-2024. Beer and Ale Merchant Wholesalers had the highest expected growth with 73 jobs. The second highest expected growth was found in Other Grocery and Related Products Merchant Wholesalers with 1,311 jobs. The tenth highest expected growth was in Refrigerated Warehousing and Storage with 16 jobs.

**Table 17: Top Transportation & Distribution Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
42481	Beer and Ale Merchant Wholesalers	156	229	73	47%
42449	Other Grocery and Related Products Merchant Wholesalers	182	239	57	31%
42492	Book, Periodical, and Newspaper Merchant Wholesalers	90	137	47	52%
42512	Wholesale Trade Agents and Brokers	102	141	39	38%
48422	Specialized Freight (except Used Goods) Trucking, Local	171	199	28	16%
33611	Automobile and Light Duty Motor Vehicle Manufacturing	41	65	24	59%
48211	Rail Transportation	228	247	19	8%
42469	Other Chemical and Allied Products Merchant Wholesalers	63	81	18	29%
42445	Confectionery Merchant Wholesalers	54	71	17	31%
49312	Refrigerated Warehousing and Storage	35	51	16	46%

Source: EMSI-Economicmodeling.com 2020.1

Table 18 shows the top jobs in the Eastern WFDA Transportation & Distribution cluster. Office Clerks, General had the highest number of jobs in this cluster with 1,464. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive had the second highest number of jobs in this cluster with 1,403. The tenth highest number of jobs in this cluster is Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products with 421.

**Table 18: Top Transportation & Distribution Occupations by Number of Current Jobs**

SOC	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
43-9061	Office Clerks, General	1,464	\$12.03	High school diploma or equivalent	Short-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,403	\$13.03	High school diploma or equivalent	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	\$11.05	No formal educational credential	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1,169	\$10.47	High school diploma or equivalent	Short-term on-the-job training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,048	\$16.47	Some college, no degree	Moderate-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,040	\$18.93	Postsecondary nondegree award	Short-term on-the-job training
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
13-2011	Accountants and Auditors	492	\$33.52	Bachelor's degree	None
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	421	\$19.03	High school diploma or equivalent	Moderate-term on-the-job training

Source: EMSI-Economicmodeling.com 2020.1

Table 19 shows the emerging jobs by growth in Eastern WFDA Transportation and Distribution from 2019 to 2024. Laborers and Freight, Stock, and Material Movers, Hand has the most expected growth with 142. The second highest expected growth is in General and Operations Managers with 82. The job with the tenth largest expected growth is in Sales Representatives, Services, All Other with 25 jobs.

**Table 19: Top Transportation & Distribution Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	1,484	142	10.58%	\$11.05
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,040	1,109	69	6.64%	\$18.93
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	421	475	54	12.82%	\$19.03
43-5081	Stock Clerks and Order Fillers	1,169	1,221	52	4.45%	\$10.47
43-9061	Office Clerks, General	1,464	1,506	42	2.87%	\$12.03
13-1199	Business Operations Specialists, All Other	145	173	28	19.25%	\$30.91
13-2011	Accountants and Auditors	492	519	27	5.49%	\$33.52
53-3033	Light Truck or Delivery Services Drivers	344	370	26	7.55%	\$13.99
41-3099	Sales Representatives, Services, All Other	215	240	25	11.63%	\$22.08

Source: EMSI-Economicmodeling.com 2020.1

## Utilities

In 2019 there were 259 jobs in the Eastern WFDA Utilities Industry Cluster with average earnings of \$51,272. Based on demand projections jobs within the Utilities Industry Cluster will increase by 42 jobs totaling 301 jobs by the year 2024.

Shown in Table 20 is the top industries in the Eastern WFDA Utilities Industry Cluster. Support Activities for Oil and Gas Operations had the highest number of job with 81. Crushed and Broken Limestone Mining and Quarrying the second highest number of jobs with 58. The fifth highest number of jobs is in Crude Petroleum Extraction at 22.

**Table 20: Top Utilities Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
213112	Support Activities for Oil and Gas Operations	81	\$36,982
212312	Crushed and Broken Limestone Mining and Quarrying	58	\$70,156
213115	Support Activities for Nonmetallic Minerals (except Fuels) Mining	32	\$45,698
212321	Construction Sand and Gravel Mining	25	\$37,595
211120	Crude Petroleum Extraction	22	\$79,289

Source: EMSI-Economicmodeling.com 2020.1

Table 21 is the Emerging Occupations in the Eastern WFDA Utilities industry cluster with the largest change from 2019-2024. Crushed and Broken Limestone Mining and Quarrying had the highest expected growth of 21. The second highest expected growth was found in Other Crushed and Broken Stone Mining and Quarrying with 9 jobs. The fifth highest growth was in Dimension Stone Mining and Quarrying with 5 jobs.

**Table 21: Top Utilities Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
212312	Crushed and Broken Limestone Mining and Quarrying	58	79	21	36%
212319	Other Crushed and Broken Stone Mining and Quarrying	16	25	9	56%
212321	Construction Sand and Gravel Mining	25	31	6	24%
213112	Support Activities for Oil and Gas Operations	81	87	6	7%
212311	Dimension Stone Mining and Quarrying	11	16	5	45%

Source: EMSI-Economicmodeling.com 2020.1

Table 22 shows the top five jobs in the Eastern WFDA Utilities cluster. General and Operations Managers had the highest number of jobs in this cluster with 1,100. Customer Service Representatives had the second highest number of jobs in this cluster with 1,002. The tenth highest number of jobs in this cluster is Electrical and Electronics Repairers, Powerhouse, Substation, and Relay with 49.

**Table 22: Top Utilities Occupations by Number of Current Jobs**

SOC	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	501	\$26.31	High school diploma or equivalent	None
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	333	\$27.47	High school diploma or equivalent	None
49-9041	Industrial Machinery Mechanics	242	\$25.82	High school diploma or equivalent	Long-term on-the-job training
13-1199	Business Operations Specialists, All Other	145	\$30.91	Bachelor's degree	None
49-9051	Electrical Power-Line Installers and Repairers	96	\$29.35	High school diploma or equivalent	Long-term on-the-job training
51-8013	Power Plant Operators	57	\$53.17	High school diploma or equivalent	Long-term on-the-job training
17-2071	Electrical Engineers	56	\$47.08	Bachelor's degree	None
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	49	\$30.27	Postsecondary nondegree award	Moderate-term on-the-job training

Source: EMSI-Economicmodeling.com 2020.1

Table 23 shows the emerging jobs in Eastern WFDA Utilities industry cluster by growth from 2019 to 2024. General and Operations Managers had the most expected growth with 82. The second highest expected growth is in Industrial Machinery Mechanics with 29. The job with the tenth largest expected growth is in Power Distributors and Dispatchers with 0 jobs.

**Table 23: Top Utilities Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
49-9041	Industrial Machinery Mechanics	242	271	29	11.99%	\$25.82
13-1199	Business Operations Specialists, All Other	145	173	28	19.25%	\$30.91
51-1011	First-Line Supervisors of Production and Operating Workers	501	524	23	4.59%	\$26.31
43-4051	Customer Service Representatives	1,002	1,024	22	2.20%	\$12.78
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	333	352	19	5.71%	\$27.47
49-9051	Electrical Power-Line Installers and Repairers	96	102	6	6.24%	\$29.35
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	26	29	3	11.47%	\$23.42
17-2071	Electrical Engineers	56	56	0	0.00%	\$47.08
51-8012	Power Distributors and Dispatchers	11	11	0	0.00%	\$37.75

Source: EMSI-Economicmodeling.com 2020.1

## Professional Services

In 2019 there were 2,619 in the Eastern WFDA Professional Services Industry Cluster with average earnings of \$62,666. Based on demand projections jobs within the Professional Services Industry Cluster will decrease by 12 jobs totaling 2,607 jobs by the year 2024.

Shown in Table 24 is the top industries in the Eastern WFDA Professional Services Industry Cluster. Commercial Banking had the highest number of job with 1,083. Other Nondepository Credit Intermediation the second highest number of jobs with 321. The tenth highest number of jobs is in Other Activities Related to Credit Intermediation at 28.

**Table 24: Top Professional Services Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
52211	Commercial Banking	1,083	\$58,062
52229	Other Nondepository Credit Intermediation	321	\$45,961
54121	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	310	\$56,493
55111	Management of Companies and Enterprises	260	\$81,423
51731	Wired and Wireless Telecommunications Carriers	206	\$70,882
52213	Credit Unions	123	\$45,346
54151	Computer Systems Design and Related Services	74	\$105,358
52429	Other Insurance Related Activities	57	\$48,612
52312	Securities Brokerage	45	\$159,514
52239	Other Activities Related to Credit Intermediation	28	\$26,106

Source: EMSI-Economicmodeling.com 2020.1

Table 25 is the emerging occupations in the Eastern WFDA Professional Services industry cluster with the largest change from 2019-2024. Other Nondepository Credit Intermediation had the highest expected growth with 72 jobs. The second highest expected growth was found in Computer Systems Design and Related Services with 11 jobs. The tenth highest expected growth was in Other Activities Related to Credit Intermediation with -6 jobs.

**Table 25: Top Professional Services Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
52229	Other Nondepository Credit Intermediation	321	393	72	22%
54151	Computer Systems Design and Related Services	74	85	11	15%
52213	Credit Unions	123	131	8	7%
52312	Securities Brokerage	45	50	5	11%
51791	Other Telecommunications	27	31	4	15%
52392	Portfolio Management	12	14	2	17%
52222	Sales Financing	17	18	1	6%
52391	Miscellaneous Intermediation	12	13	1	8%
52429	Other Insurance Related Activities	57	56	(1)	-2%
52239	Other Activities Related to Credit Intermediation	28	22	(6)	-21%

Source: EMSI-Economicmodeling.com 2020.1

Table 24 shows the top jobs in the Eastern WFDA Professional Services cluster. Office Clerks, General had the highest number of jobs in this cluster with 1,464. Secretaries and Administrative Assistants, Except Legal, Medical, and Executive had the second highest number of jobs in this cluster with 1,403. The tenth highest number of jobs in this cluster is Financial Managers with 226.

**Table 26: Top Professional Services Occupations by Number of Current Jobs**

SOC	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
43-9061	Office Clerks, General	1,464	\$12.03	High school diploma or equivalent	Short-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,403	\$13.03	High school diploma or equivalent	Short-term on-the-job training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1,064	\$19.90	High school diploma or equivalent	None
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,048	\$16.47	Some college, no degree	Moderate-term on-the-job training
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
13-2011	Accountants and Auditors	492	\$33.52	Bachelor's degree	None
43-4171	Receptionists and Information Clerks	335	\$11.77	High school diploma or equivalent	Short-term on-the-job training
13-1071	Human Resources Specialists	276	\$23.67	Bachelor's degree	None
11-3031	Financial Managers	226	\$44.50	Bachelor's degree	None

Source: EMSI-Economicmodeling.com 2020.1

Table 27 shows the emerging jobs in the Eastern WFDA Professional Services industry cluster by growth from 2019 to 2024. Business Operations Specialists, All Other had the

most expected growth with 28. The second highest expected growth is in Software Developers, Applications with 11. The job with the tenth largest expected growth is in Financial Analysts with 2 jobs.

**Table 27: Top Professional Services Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
13-1199	Business Operations Specialists, All Other	145	173	28	19.25%	\$30.91
15-1132	Software Developers, Applications	66	77	11	16.67%	\$32.96
13-1161	Market Research Analysts and Marketing Specialists	154	177	23	14.98%	\$22.70
13-1111	Management Analysts	131	148	17	12.96%	\$33.56
11-9199	Managers, All Other	89	100	11	12.43%	\$33.84
41-3099	Sales Representatives, Services, All Other	215	240	25	11.63%	\$22.08
11-3031	Financial Managers	226	246	20	8.85%	\$44.50
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
13-1071	Human Resources Specialists	276	296	20	7.25%	\$23.67
13-2051	Financial Analysts	29	31	2	6.91%	\$30.67

Source: EMSI-Economicmodeling.com 2020.1

## Industrial

In 2019 there were 3,378 in the Eastern WFDA Industrial Industry Cluster with average earnings of \$69,491. Based on demand projections jobs within the Industrial Industry Cluster will increase by 45 jobs totaling 3,423 jobs by the year 2024.

Shown in Table 28 is the top industries in the Eastern WFDA Industrial Cluster. Industrial Process Furnace and Oven Manufacturing had the highest number of job with 517. Motor and Generator Manufacturing had the second highest number of jobs with 379. The tenth highest number of jobs is in Sheet Metal Work Manufacturing at 122.

**Table 28: Top Industrial Industries by Number of Current Jobs**

NAICS	Description	2019 Jobs	Avg. Earnings Per Job
333994	Industrial Process Furnace and Oven Manufacturing	517	\$103,196
335312	Motor and Generator Manufacturing	379	\$66,993
333132	Oil and Gas Field Machinery and Equipment Manufacturing	337	\$78,945
333413	Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing	275	\$45,874
336390	Other Motor Vehicle Parts Manufacturing	228	\$57,929
332710	Machine Shops	221	\$59,935
332312	Fabricated Structural Metal Manufacturing	165	\$49,592
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	165	\$72,394
333999	All Other Miscellaneous General Purpose Machinery Manufacturing	154	\$40,459
332322	Sheet Metal Work Manufacturing	122	\$60,175

Source: EMSI-Economicmodeling.com 2020.1

Table 29 is the emerging occupations in the Eastern WFDA in the Industrial cluster with the largest change from 2019-2024. Light Truck and Utility Vehicle Manufacturing had the highest expected growth with 24 jobs. The second highest expected growth was found in Electroplating, Plating, Polishing, Anodizing, and Coloring with 23 jobs. The tenth highest expected growth was in Other Commercial and Service Industry Machinery Manufacturing with 3 jobs.

**Table 29: Top Industrial Emerging Industries by Number of New Jobs**

NAICS	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 % Change
336112	Light Truck and Utility Vehicle Manufacturing	41	65	24	59%
332813	Electroplating, Plating, Polishing, Anodizing, and Coloring	86	109	23	27%
333994	Industrial Process Furnace and Oven Manufacturing	517	538	21	4%
332911	Industrial Valve Manufacturing	74	93	19	26%
331512	Steel Investment Foundries	41	51	10	24%
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing	47	57	10	21%
331222	Steel Wire Drawing	24	33	9	38%
332996	Fabricated Pipe and Pipe Fitting Manufacturing	14	20	6	43%
332311	Prefabricated Metal Building and Component Manufacturing	24	28	4	17%
333318	Other Commercial and Service Industry Machinery Manufacturing	50	53	3	6%

Source: EMSI-Economicmodeling.com 2020.1

Table 30 shows the top jobs in the Eastern WFDA Industrial cluster. Office Clerks, General had the highest number of jobs in this cluster with 1,464. Laborers and Freight, Stock, and Material Movers, Hand had the second highest number of jobs in this cluster with 1,342. The

tenth highest number of jobs in this cluster is Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products with 421.

**Table 30: Top Industrial Occupations by Number of Current Jobs**

SO C	Description	2019 Jobs	Median Hourly Earnings	Typical Entry Level Education	Typical On-The-Job Training
43-9061	Office Clerks, General	1,464	\$12.03	High school diploma or equivalent	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	\$11.05	No formal educational credential	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1,169	\$10.47	High school diploma or equivalent	Short-term on-the-job training
11-1021	General and Operations Managers	1,100	\$34.07	Bachelor's degree	None
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,040	\$18.93	Postsecondary nondegree award	Short-term on-the-job training
43-4051	Customer Service Representatives	1,002	\$12.78	High school diploma or equivalent	Short-term on-the-job training
49-9071	Maintenance and Repair Workers, General	969	\$14.49	High school diploma or equivalent	Moderate-term on-the-job training
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	576	\$11.94	High school diploma or equivalent	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	501	\$26.31	High school diploma or equivalent	None
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	421	\$19.03	High school diploma or equivalent	Moderate-term on-the-job training

Source: EMSI-Economicmodeling.com 2020.1

Table 31 shows the emerging jobs in the Eastern WFDA Industrial cluster by growth from 2019 to 2024. Laborers and Freight, Stock, and Material Movers, Hand had the most expected growth with 142. The second highest expected growth is in General and Operations Managers with 82. The job with the tenth largest expected growth is in First-Line Supervisors of Production and Operating Workers with 23 jobs.

**Table 31: Top Industrial Emerging Occupations by Number of New Jobs**

SOC	Description	2019 Jobs	2024 Jobs	2019 - 2024 Change	2019 - 2024 Change %	Median Hourly Earnings
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,342	1,484	142	10.58%	\$11.05
11-1021	General and Operations Managers	1,100	1,182	82	7.45%	\$34.07
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,040	1,109	69	6.64%	\$18.93
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	421	475	54	12.82%	\$19.03
49-9071	Maintenance and Repair Workers, General	969	1,023	54	5.58%	\$14.49
43-5081	Stock Clerks and Order Fillers	1,169	1,221	52	4.45%	\$10.47
43-9061	Office Clerks, General	1,464	1,506	42	2.87%	\$12.03
51-4121	Welders, Cutters, Solderers, and Brazers	365	406	41	11.22%	\$18.74
49-9041	Industrial Machinery Mechanics	242	271	29	11.99%	\$25.82
51-1011	First-Line Supervisors of Production and Operating Workers	501	524	23	4.59%	\$26.31

Source: EMSI-Economicmodeling.com 2020.1