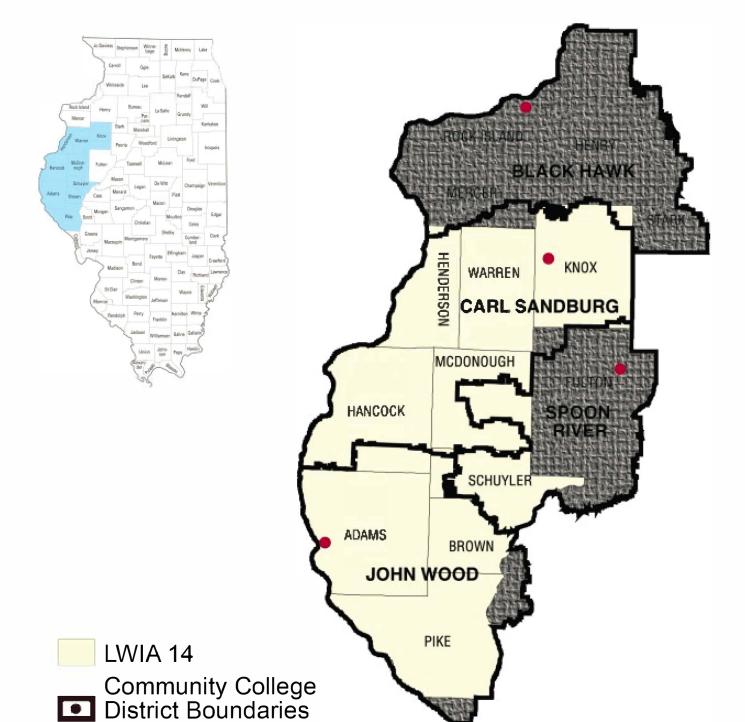
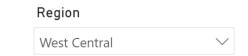
# **2022 Regional Plan Data Packet** EDR 10 - West Central

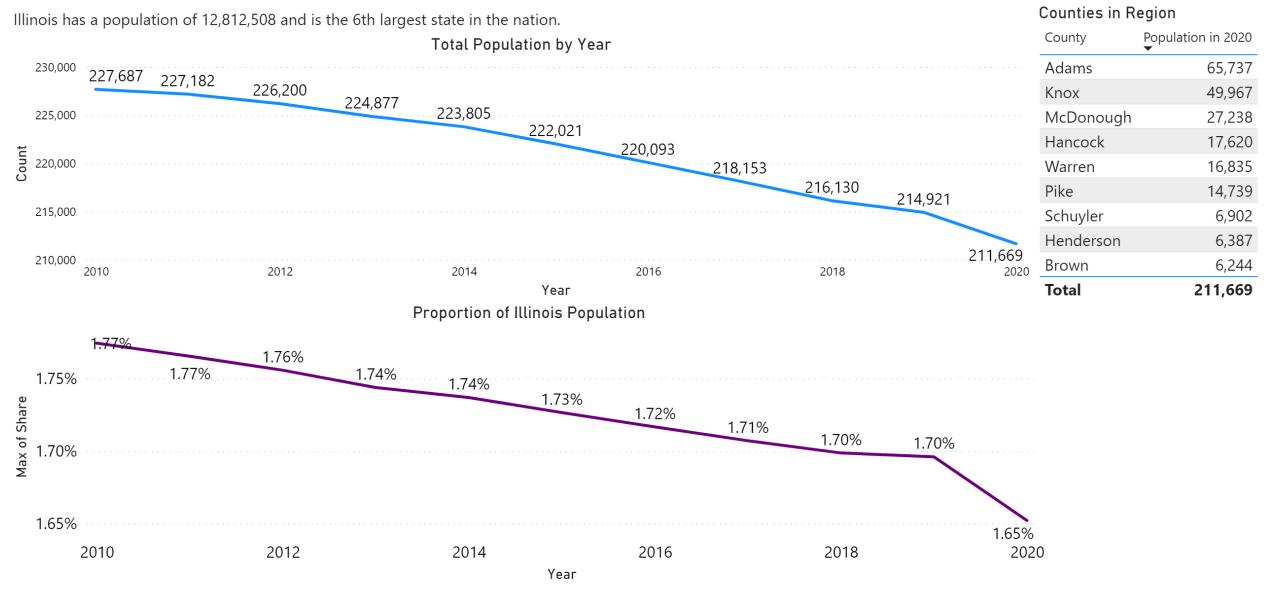




& Locations

# **Population Trends**



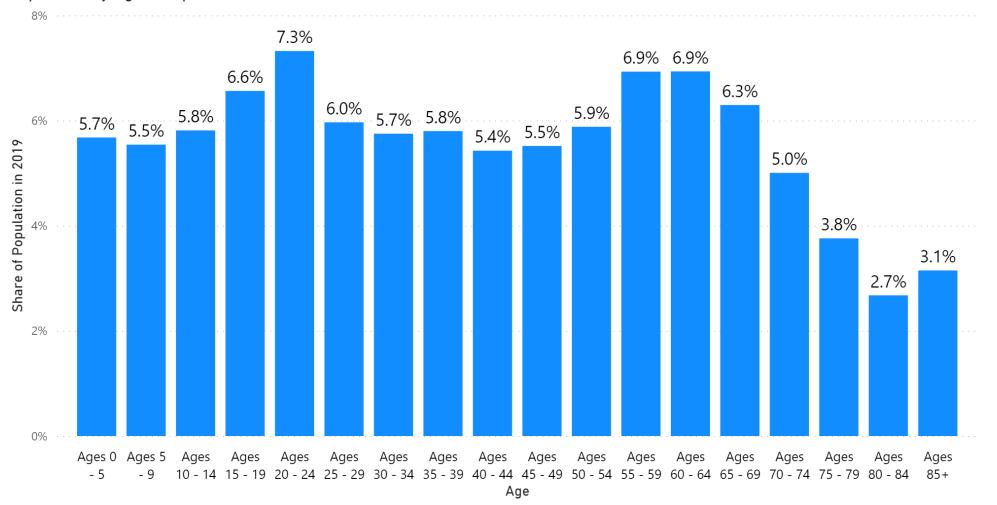


# **Population Trends**

Region
West Central

The median age in Illinois has been steadily increasing over the past decade. In 2019, the median age was 38.6 compared to 36.6 in 2010. Statewide, just over 16% of Illinois residents are age 65 and over.

#### Population by Age Group



Age Group	2019 Population
Ages 0 - 5	12,202
Ages 5 - 9	11,909
Ages 10 - 14	12,490
Ages 15 - 19	14,105
Ages 20 - 24	15,737
Ages 25 - 29	12,822
Ages 30 - 34	12,357
Ages 35 - 39	12,464
Ages 40 - 44	11,662
Ages 45 - 49	11,856
Ages 50 - 54	12,640
Ages 55 - 59	14,893
Ages 60 - 64	14,903
Ages 65 - 69	13,530
Ages 70 - 74	10,756
Ages 75 - 79	8,078
Ages 80 - 84	5,750
Ages 85+	6,767
Total	214,921

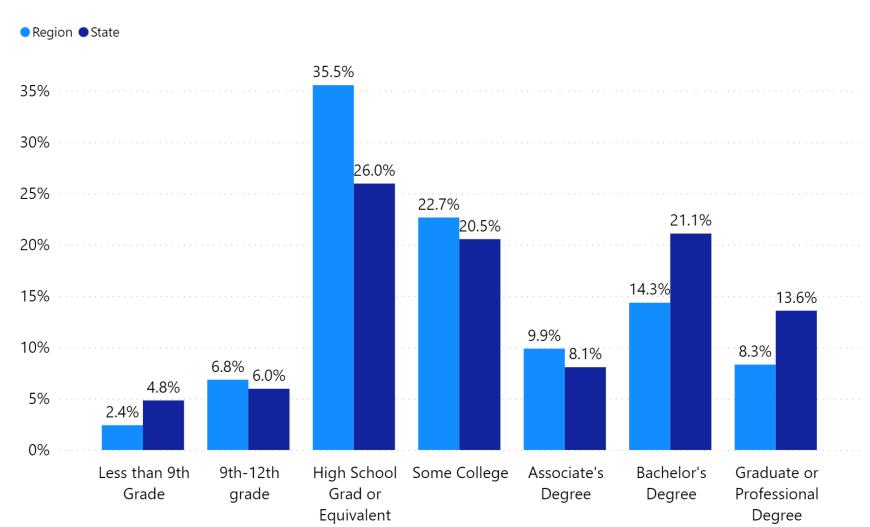
#### Region

## West Central

Population Ages 25+

## **Education Attainment of Population 25 & Over**



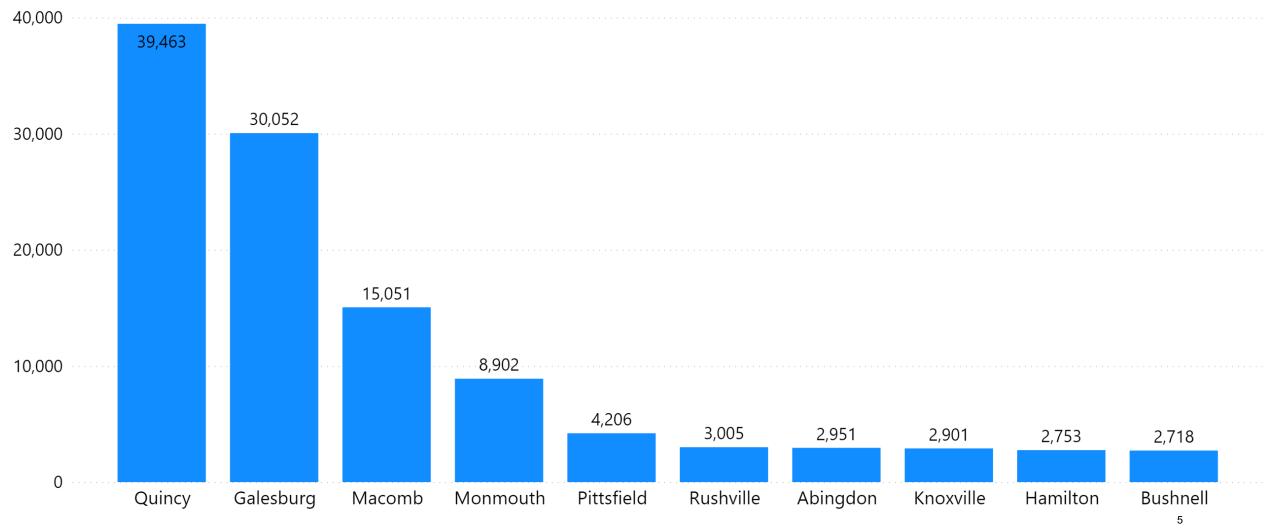


Total	149.764
Graduate or Professional Degree	12,462
Bachelor's Degree	21,484
Associate's Degree	14,786
Some College	33,923
High School Grad or Equivalent	53,231
9th-12th grade	10,256
Less than 9th Grade	3,622

# Population by Largest Cities in Region

Region
West Central

Statewide, Illinois has a current population of 12.8 million people (4% of the US Population). The population of Illinois declined each year between 2013 and 2019, but it increased in 2020.



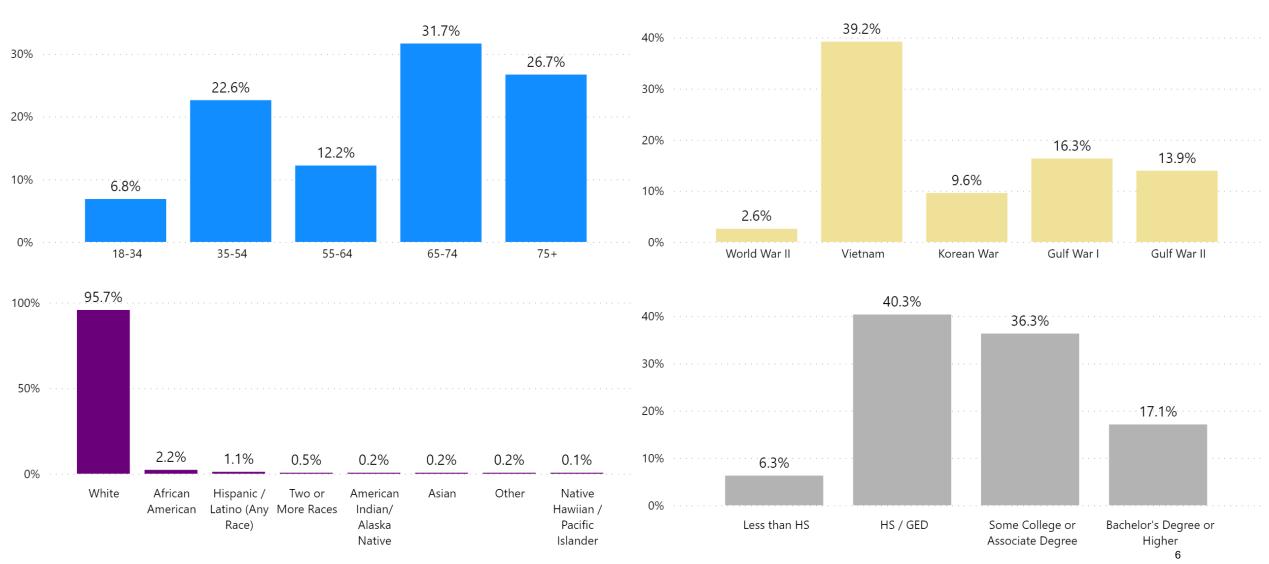
## **Veteran Population by Age, Type, Race, & Education**

Region
West Central

14,432

Regional Veteran Population

Statewide, there are 570,264 veterans in Illinois, which is about 4% of the total population. On the national level, veterans represent about 6% of the total population.



Source: U.S. Census Bureau, 2015-2019 American Community Survey, Table S2101.

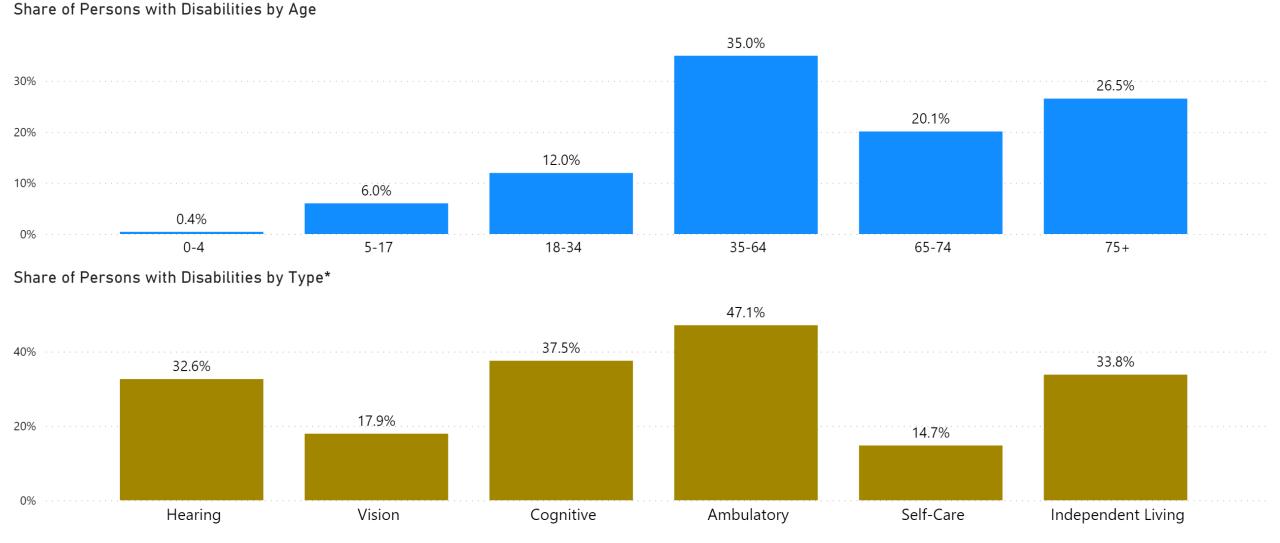
## **Population with Disabilities by Age and Type**

Region
West Central

32,014

Approximately 11% of the population (or 1.4 million people) in Illinois have some type of disability. The most prominent disabilities include ambulatory and the inability to live independently.

People with disabilities in region



<sup>\*</sup>Sum of percentages can exceed 100 due to persons with multiple disabilities.

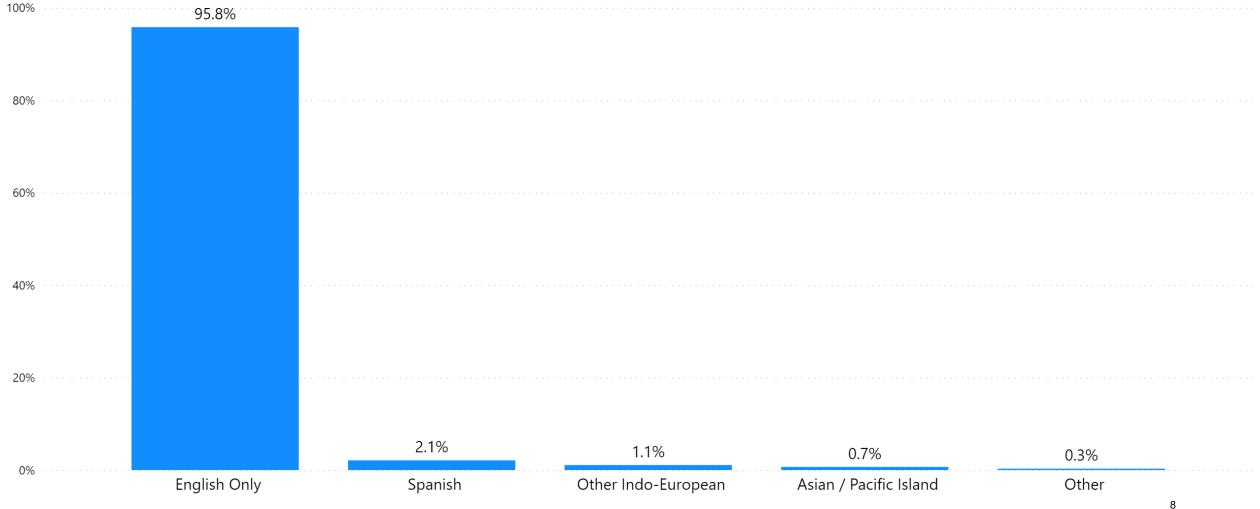
7 Source: U.S. Census Bureau, 2015-2019 American Community Survey, Table S1810.

### **Population by Language**

Region

West Central

Statewide, 23.1% of Illinois residents speak a langauge other than English at home. On the national level, 21.6% of the population speaks a language other than English at home.

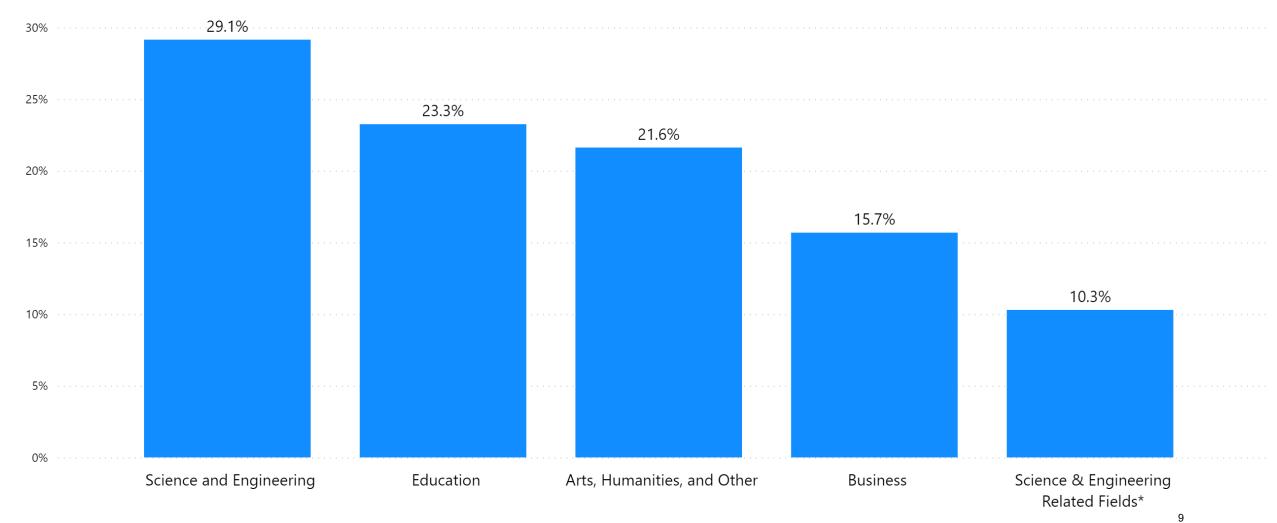


## **Bachelor Degree Population by Field**

Region

West Central

In Illinois, 36% of individuals 25 or older hold at least a Bachelor's degree, which is higher than the national figure of 32%.

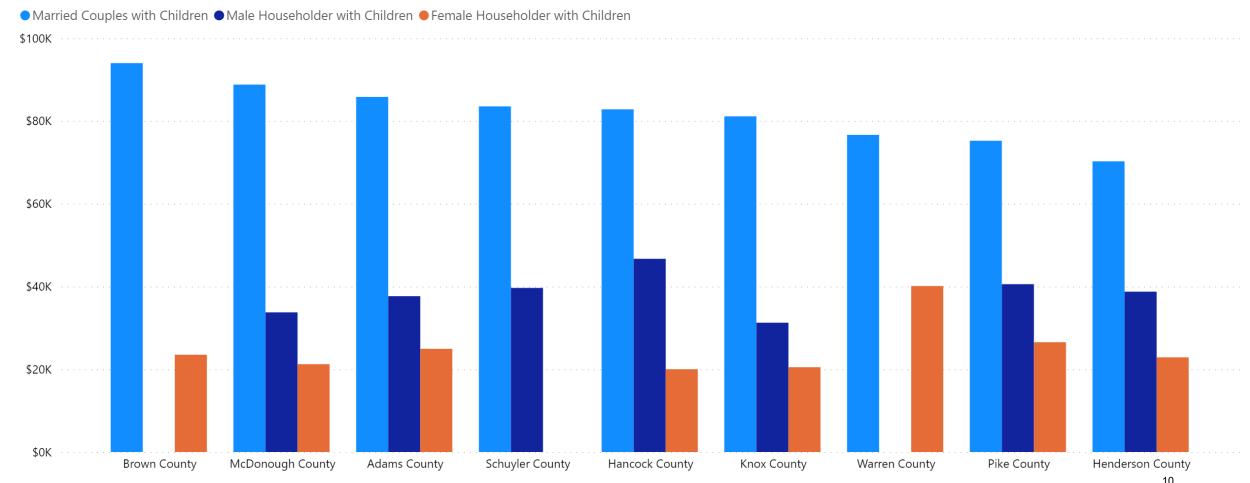


## **Median Income by County- Households with Children**

Region
West Central

The statewide median income for all households was \$65,886, which is 5% higher than the national level of \$62,843. In Illinois, the median income was \$107,172 for married couples with children, \$44,318 for male householders with children, and \$39,720 for female householders with children.

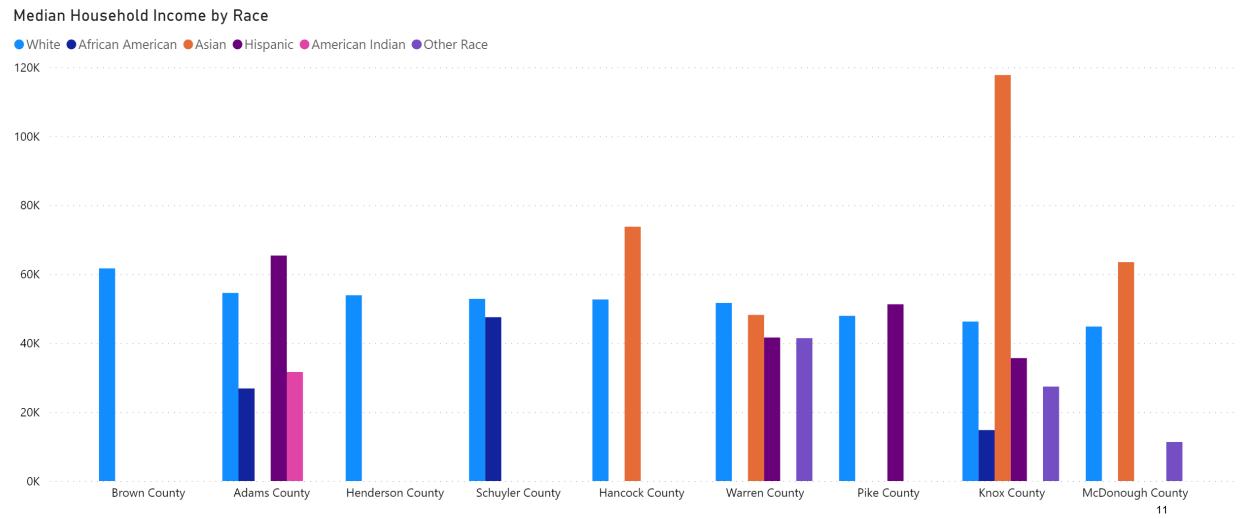




## **Median Income by County and Race**

Region
West Central

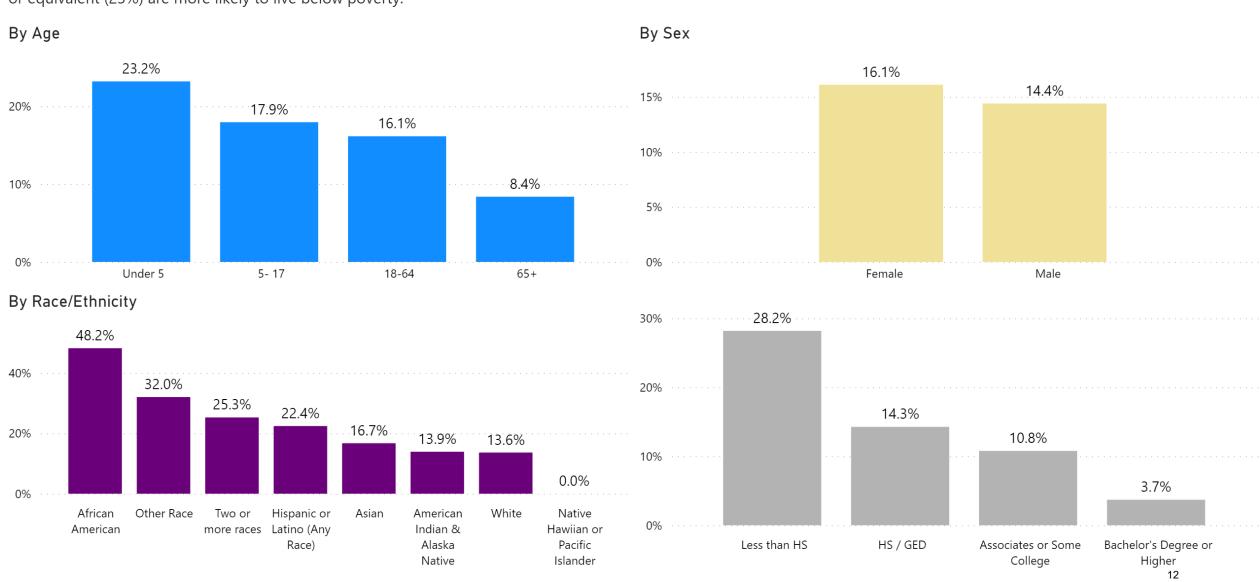
Statewide, the median income for African American households is \$38,573, American Indian households is \$49,634, Asian households is \$90,278, Hispanic households is \$55,836, White households is \$71,922, and Other Race households is \$52,832.



## **Percent of Population Below Poverty**

Region
West Central

Roughly 1.6 million Illinois residents live below poverty. Children under the age of 5 (19%), females (14%), African Americans (26%), and individuals lacking a high school diploma or equivalent (23%) are more likely to live below poverty.



## **Counts of Population Below Poverty**

Region	
Southwest	~

Roughly 1.6 million Illinois residents live below poverty. Children under the age of 5 (19%), females (14%), African Americans (26%), and individuals lacking a high school diploma or equivalent (23%) are more likely to live below poverty. Approximately 12.5% of the population in Illinois are below the poverty level compared to 13.4% nationwide. About 44.6% of the population in poverty worked full-time, year round, 23.3% worked part-time or part-year, and 32.0% did not work.



#### ADDITIONAL TARGET POPULATION STATISTICS

#### EDR 10 West Central

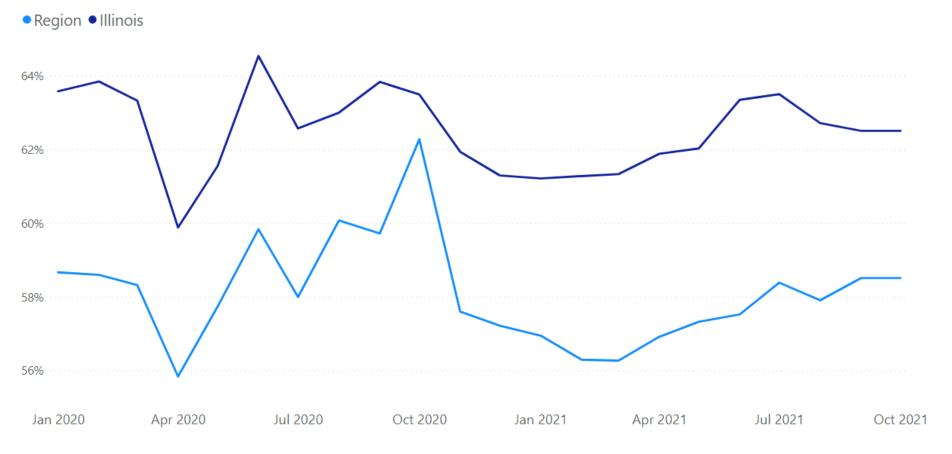
(Adams, Brown, Hancock, Henderson, Knox, McDonough, Pike, Schuyler & Warren)

Low-Income Indicators	
SNAP Households, Monthly Average 2020	17,888
SNAP Cases, Monthly Average 2020	34,369
TANF Cases, Monthly Average 2020	622
TANF Persons, Monthly Average 2020	1,679
Foster Care Indicators	
Total Foster Youth, October 31, 2021	640
Foster Youth- Foster Care	291
Foster Youth- Relative	324
Foster Youth- Institution or Group Home	16
Other Foster Youth	9
<b>DOCIndicators</b>	
Adult Prison Population by Sentencing Region, June 30th, 2021	635
Adult Parolee Population by Region of Residence, June 30, 2021	559
Average Daily Juvenile Detention Population, June 2021	20.9
Other Indicators	
Single Parents	
Male Householder with own children, no partner present	1,128
Female Householder with own children, no partner present	4,219
Adult Population at Risk	
Foreign Born Population	5,547
Age 18+ without high school diploma	16,027

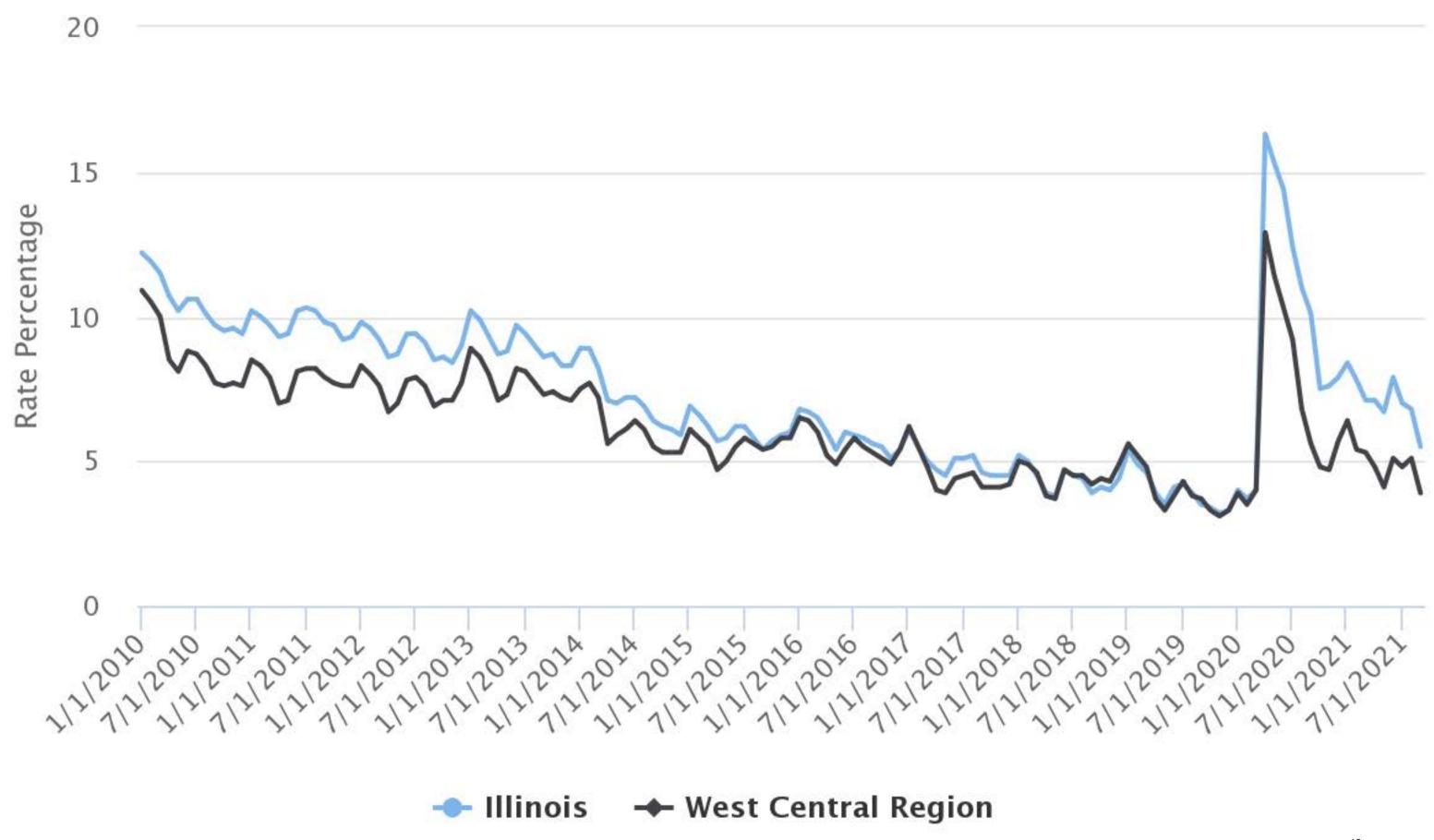
# West Central

Labor Force Participation Rates by Month, January 2020 - October 2021



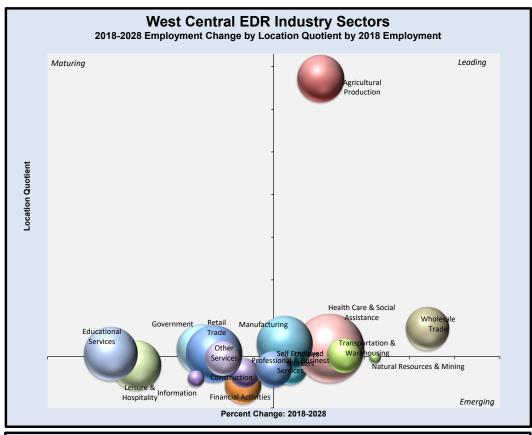


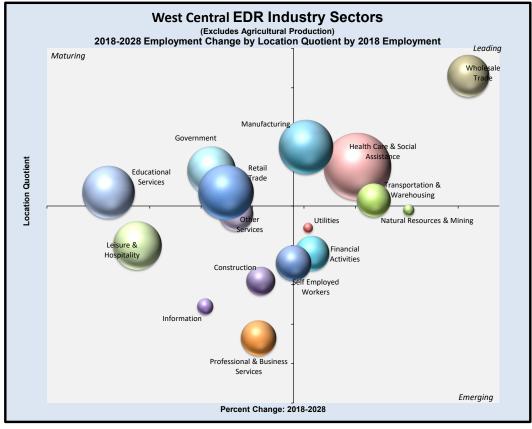
# Not Seasonally Adjusted Monthly Unemployment Rate

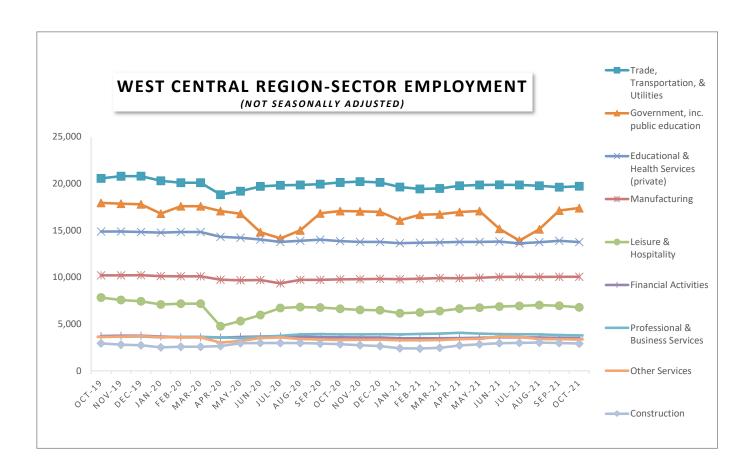


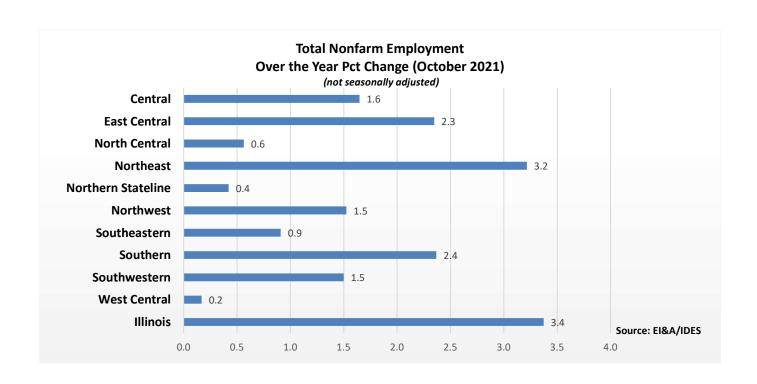
	2018	Projected 2028	Net Employment	Percent Employment	Concentration (Location
NAICS Title	<b>Employment</b>	<b>Employment</b>	Change 2018 -	Change	Quotient)
TOTAL, ALL INDUSTRIES	98,943	98,014	-929	-0.9%	
Self Employed Workers	4,230	4,230	0	0.0%	0.71
Agricultural Production	7,147	7,331	184	2.6%	7.52
Natural Resources & Mining	411	434	23	5.6%	0.98
Construction	2,755	2,711	-44	-1.6%	0.62
Manufacturing	10,122	10,180	58	0.6%	1.3
Wholesale Trade	5,971	6,478	507	8.5%	1.66
Retail Trade	10,389	10,041	-348	-3.3%	1.07
Utilities	303	305	2	0.7%	0.89
Transportation & Warehousing	3,824	3,973	149	3.9%	1.03
Information	852	815	-37	-4.3%	0.49
Financial Activities	4,001	4,039	38	0.9%	0.76
Professional & Business Services	4,232	4,158	-74	-1.7%	0.33
Educational Services	9,346	8,507	-839	-9.0%	1.07
Health Care & Social Assistance	15,531	16,014	483	3.1%	1.2
Leisure & Hospitality	8,007	7,401	-606	-7.6%	0.8
Other Services	3,898	3,789	-109	-2.8%	0.96
Government	7,924	7,608	-316	-4.0%	1.18

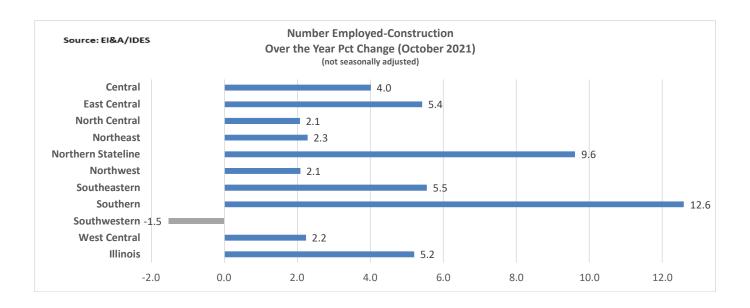
Leading Maturing Emerging

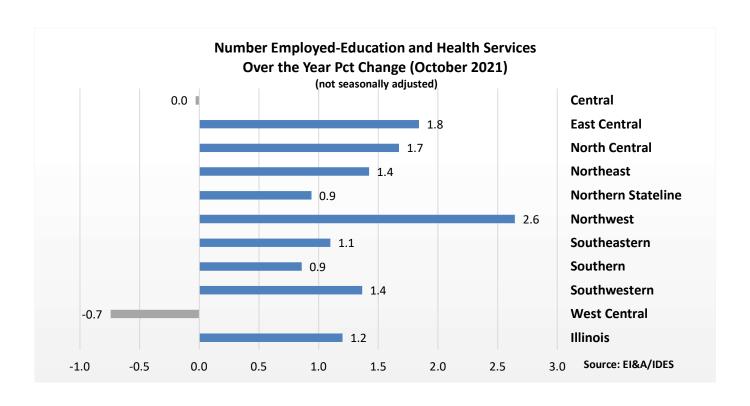


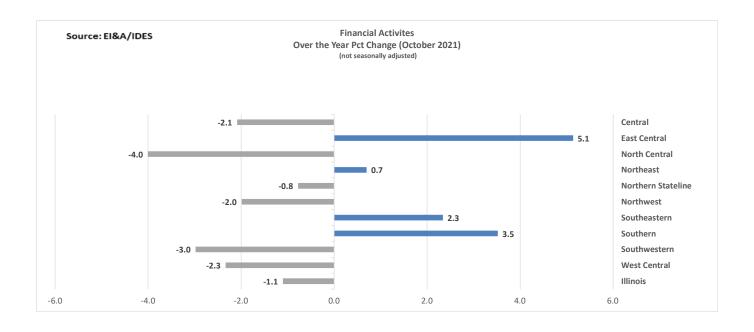


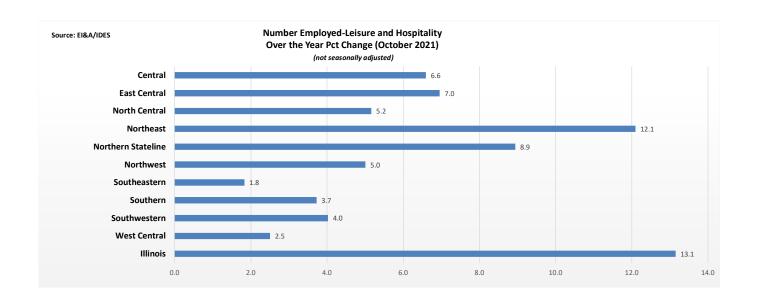


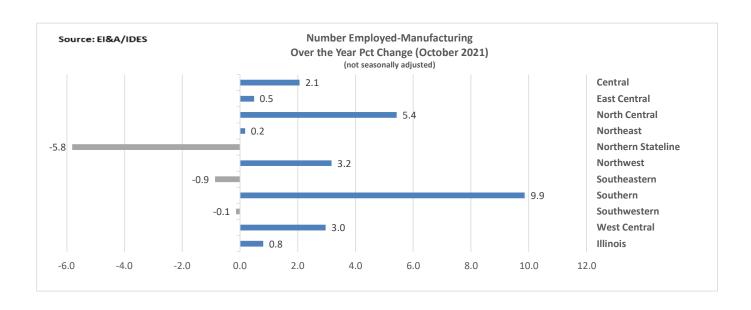


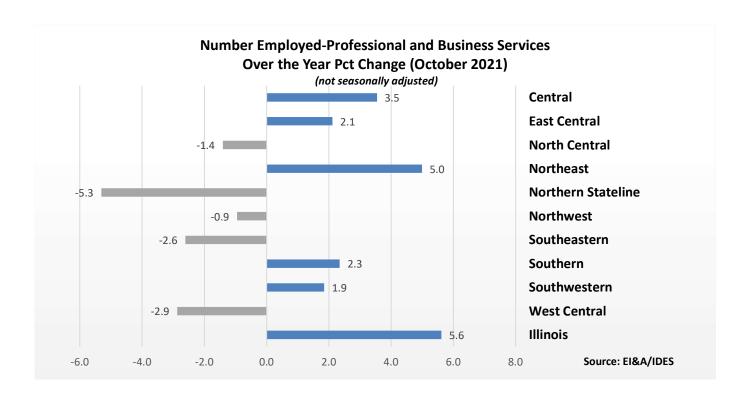


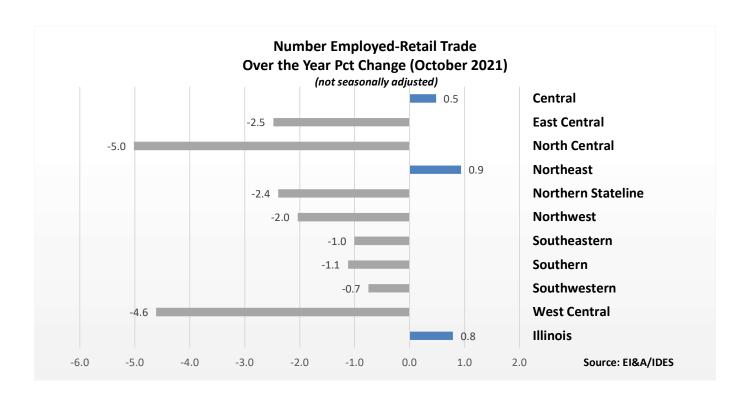


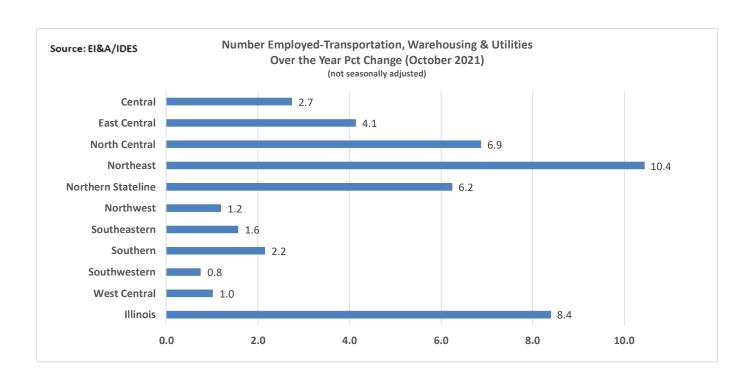












#### **Sectors, Industries & Clusters**

The terms "sector", "industry" and "cluster" are sometimes a source of confusion, and can be an unnecessary source of debate among various stakeholders.

**Sector** describes a large segment of the economy, while **Industry** refers to a much more specific group of companies or businesses. The terms industry and sector are often used interchangeably to describe a group of companies that operate in the same segment of the economy or share a similar business type.

A **cluster** is a regional concentration of related industries in a particular location. Clusters are a striking feature of economies, making regions uniquely competitive for jobs and private investment. Adding to the confusion, the education community established a national framework of 16 "career clusters", which links programs of study to occupations with similar knowledge and skill requirements.

The table below is a standardized list of Industries from the North American Industry Classification System (NAICS) at its highest, "2-digit" sector level. Within each of these sectors, NAICS groups similar companies into ever-increasing levels of granularity, down to the "6-digit" level. The table below right shows how this works in the Construction sector, with just a partial list of more detailed codes.

Code	Industry Title
11	Agriculture, Forestry, Fishing and Hunting
21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	RetailTrade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)
92	Public Administration

Codes	<u>Titles</u>
23	Construction
2361	Residential Building Construction
236115	New Single-Family Housing Construction (except For-Sale Builders)
236116	New Multifamily Housing Construction (except For-Sale Builders)
236117	New Housing For-Sale Builders
236118	Residential Remodelers
2362	Nonresidential Building Construction
236210	Industrial Building Construction
236220	Commercial and Institutional Building Construction
2371	Utility System Construction
237110	Water and Sewer Line and Related Structures Construction
237120	Oil and Gas Pipeline and Related Structures Construction
237130	Power and Communication Line and Related Structures Construction

There are literally thousands of 6-digit NAICS codes, which may be viewed at naics.com/search/. For our purposes, 2 to 3 digit NAICS codes provide sufficient detail.

NAICS is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. Like all data, NAICS does have some limitations and caveats. For example, NAICS classifies businesses based on their primary activities, but a specific business may have significant activity in other sectors. For example, Wal-Mart's primary activity is a retailer, but it employs thousands of workers focused on Transportation / Distribution/Logistics at its distribution centers and in-house trucking division.

Readers are cautioned to not make assumptions on the types of businesses or occupations implied by high level groupings.

For example, the NAICS "Information" sector includes industries primarily focused on: publishing, motion pictures, broadcasting, internet publishing and broadcasting, telecommunications, data processing etc. Occupations requiring "information technology" skills are embedded in companies from all sectors. We must look beyond the Information sector to discern the full extent of the supply and demand for jobs and workers needing IT skills. There are significant numbers of tech workers spread across manufacturing, finance, government and many other sectors. Likewise, "Energy" is not a sector in the NAICS model, but energy-related industries and occupations are found in sectors such as: Construction; Manufacturing; and Professional, Scientific and Technical Services, among others.

### Regional Sector Analysis Change in Employment and Location Quotient

The following maps show the "where" for selected economic data at the regional and county levels. This view allows readers to more easily see how each county contributes to the overall economic engine in a region and how regions as a whole compare to other areas of the state.

The **Employment Change** maps indicate the level of gain or loss of employment between Q4 2017 and Q4 2018. Use these maps to understand where gains and losses occurred, identify targets of opportunity where skilled workers may be in greater demand and areas which may be in need of attention.

The **Location Quotient** maps indicate counties where sector employment is most and least concentrated. The LQ value indicates how concentrated employment in a given sector compares to the nation.

A value of 1.0 means employment is in line with the overall national employment for that sector. A value greater than 1.0 means that sector's employment is more heavily concentrated here than in the nation, while values less than 1.0 indicate employment is less concentrated than in the nation. The farther away from 1.0, the greater the difference between what is happening in that county compared to the nation.

2.0 1.5 ----1.0 0.75 0.5 0.25

4.0

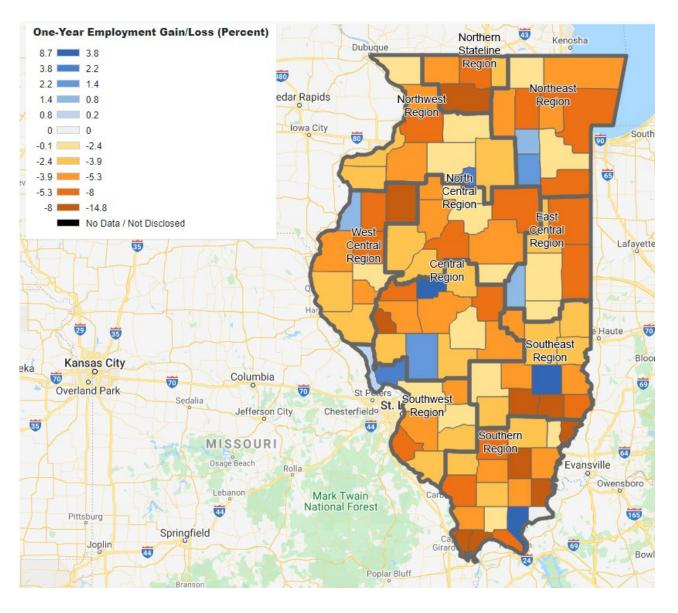
NOTE: Counties shaded black have insufficient numbers of workers to reach the federal employment reporting threshold.

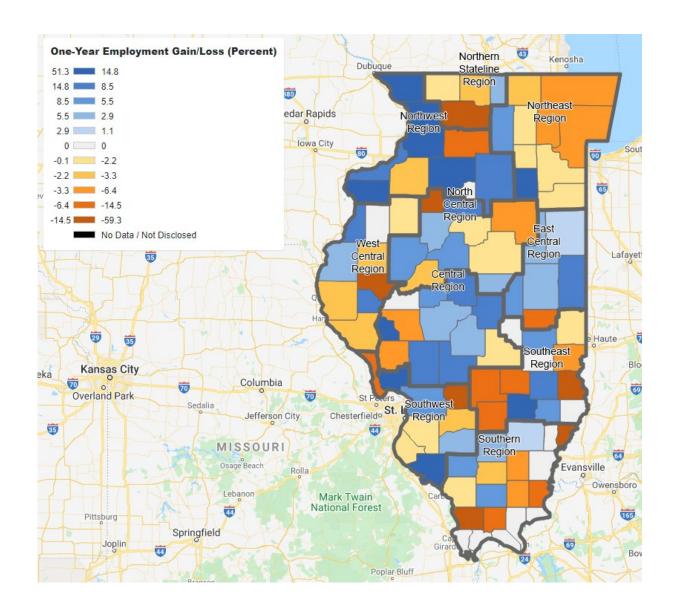
Use these maps to quickly see where sector-based employment is concentrated and the degree to which it is above or below the national level. Areas with high LQs may have an inherent advantage, while areas with low LQs may be at an inherent disadvantage for supporting a particular sector's businesses with skilled workers.

# Regional Employment Change and Location Quotient Maps as of Quarter 1 2021

All maps retrieved from the Illinois Employment Business System at Illinois workNet. Underlying data is from the U.S. Census Bureau, Quarterly Census of Employment and Wages.

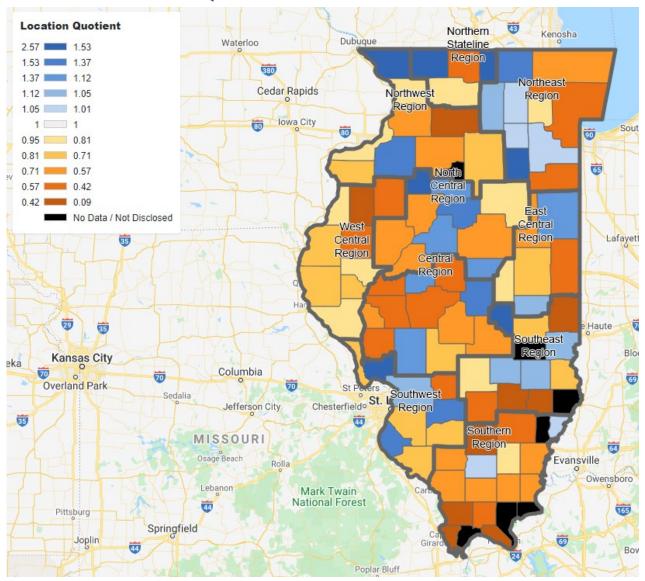
#### All Industry 12 Month Employment Change

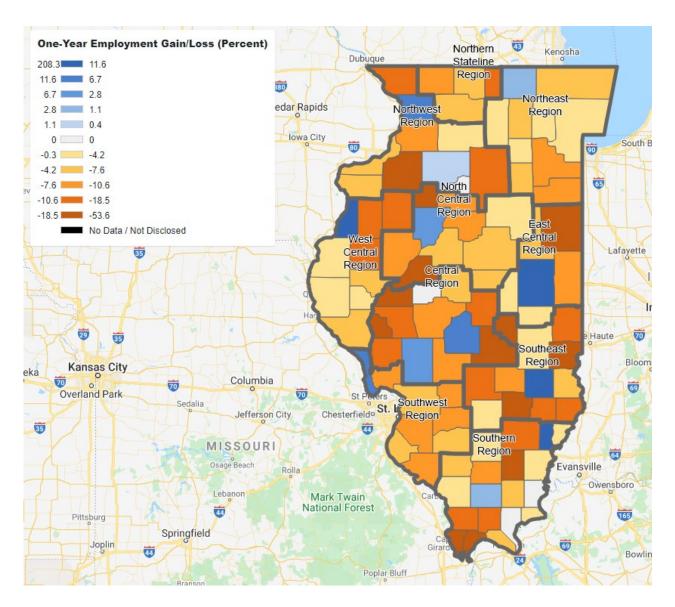




Construction (NAICS 23)
Construction of Buildings (NAICS 236)
Heavy and Civil Engineering Construction (NAICS 237)
Specialty Trade Contractors (NAICS 238)

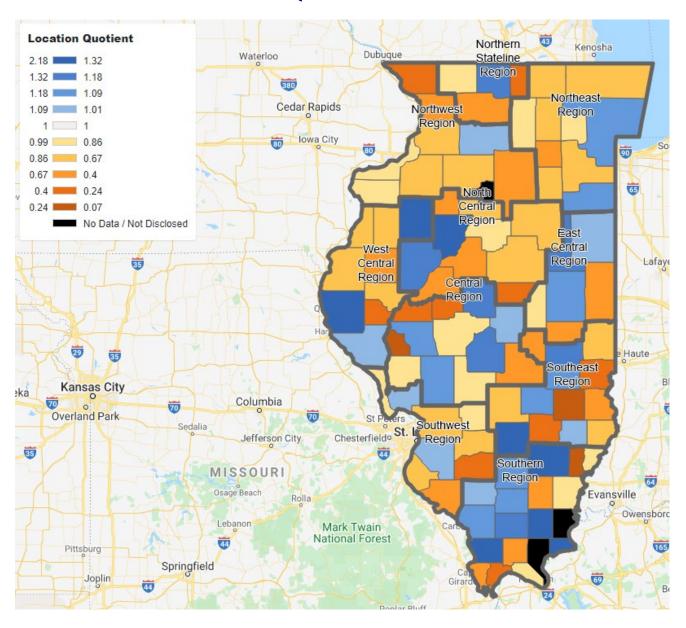
#### Construction Location Quotient

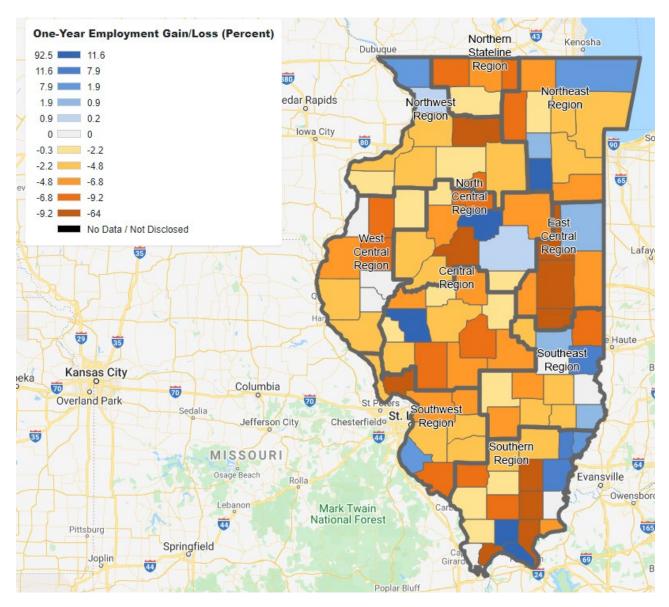




Education and Health Services
Educational Services (NAICS 61)
Health Care and Social Assistance (NAICS 62)
Ambulatory Health Care Services (NAICS 621)
Hospitals (NAICS 622)
Nursing and Residential Care Facilities (NAICS 623)
Social Assistance (NAICS 624)

#### Education and Health Location Quotient





### **Financial Activities**

Finance and Insurance (NAICS 52)

Monetary Authorities - Central Bank (NAICS 521)

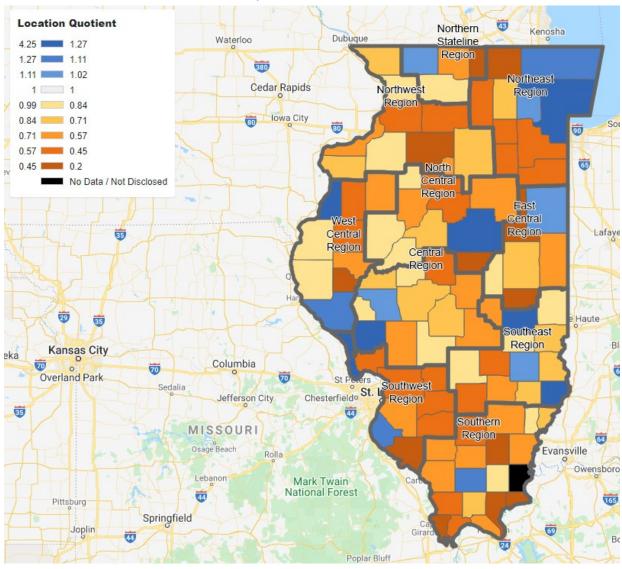
Credit Intermediation and Related Activities (NAICS 522)

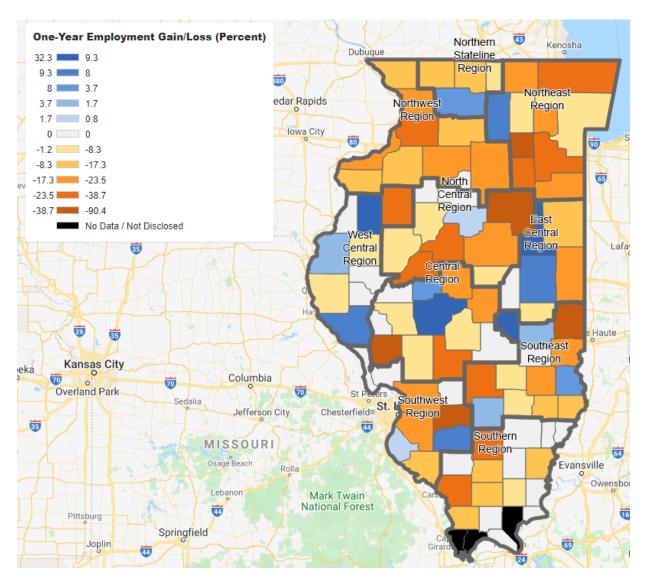
Securities, Commodity Contracts, and Other Financial Investments and Related Activities (NAICS 523)

Insurance Carriers and Related Activities (NAICS 524)

Funds, Trusts, and Other Financial Vehicles (NAICS 525)

## Financial Activities Location Quotient





## Information (NAICS 51)

Publishing Industries (except Internet) (NAICS 511)

Motion Picture and Sound Recording Industries (NAICS 512)

Broadcasting (except Internet) (NAICS 515)

Internet Publishing and Broadcasting (NAICS 516)

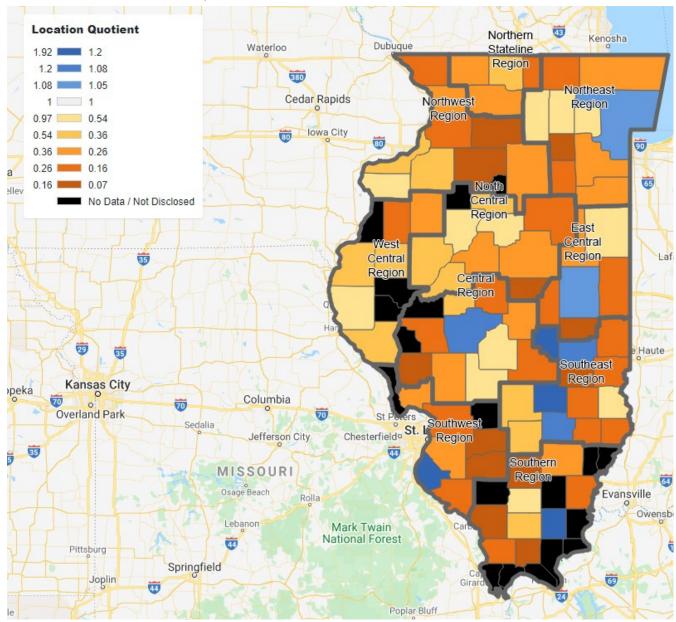
Telecommunications (NAICS 517)

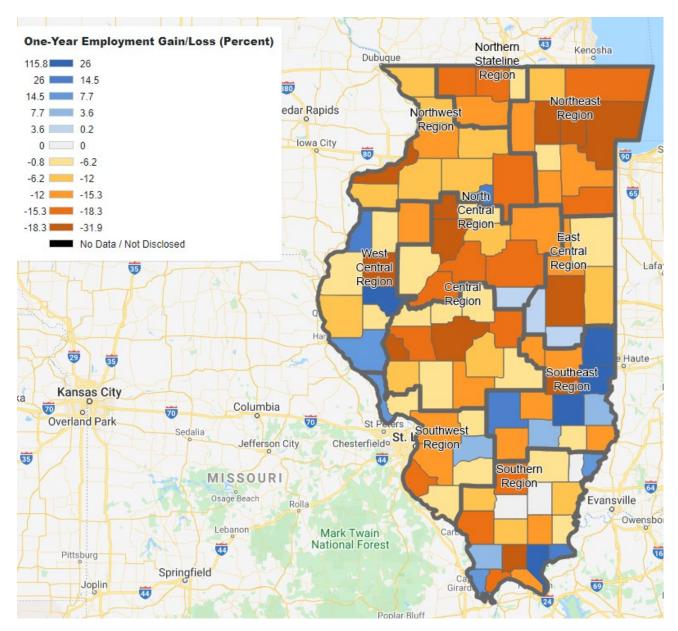
Data Processing, Hosting, and Related Services (NAICS 518)

Other Information Services (NAICS 519)

<sup>\*</sup> NOTE - Internet Publishing and Broadcasting and Data Processing, Hosting and Related Services includes COMPANIES primarily focused on this activity. Nearly all companies across all sectors employ workers in Information Technology occupations. Most IT workers are counted in the sector of their employer.

## Information Location Quotient





### Leisure and Hospitality

Arts, Entertainment, and Recreation (NAICS 71)

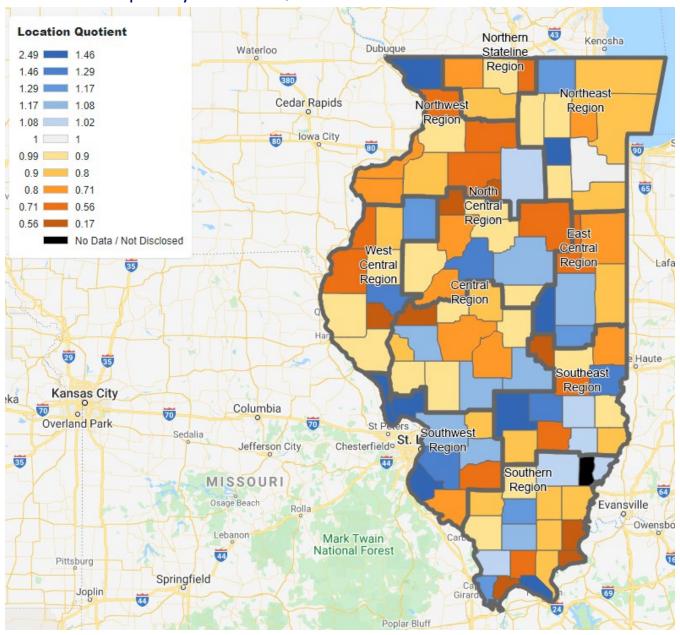
Performing Arts, Spectator Sports, and Related Industries (NAICS 711)

Museums, Historical Sites, and Similar Institutions (NAICS 712)

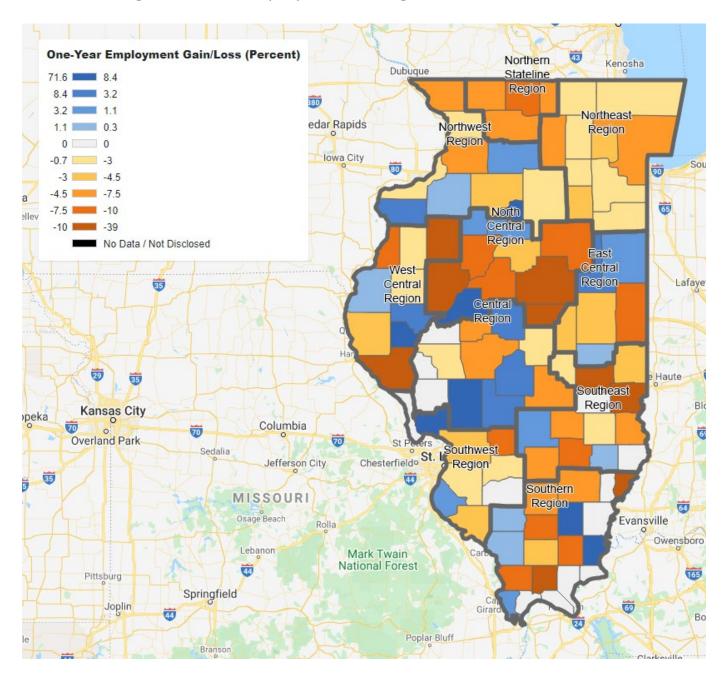
Amusement, Gambling, and Recreation Industries (NAICS 713)

Accommodation and Food Services (NAICS 72) Accommodation (NAICS 721)
Food Services and Drinking Places (NAICS 722)

# Leisure & Hospitality Location Quotient



## Manufacturing 12 Month Employment Change



Manufacturing (NAICS 31-33)

Food Manufacturing (NAICS 311)

Beverage and Tobacco Product Manufacturing (NAICS 312)

Textile Mills (NAICS 313)

Textile Product Mills (NAICS 314)

Apparel Manufacturing (NAICS 315)

Leather and Allied Product Manufacturing (NAICS 316)

Wood Product Manufacturing (NAICS 321)

Paper Manufacturing (NAICS 322)

Printing and Related Support Activities (NAICS 323)

Petroleum and Coal Products Manufacturing (NAICS 324)

Chemical Manufacturing (NAICS 325)

Plastics and Rubber Products Manufacturing (NAICS 326)

Nonmetallic Mineral Product Manufacturing (NAICS 327)

Primary Metal Manufacturing (NAICS 331)

Fabricated Metal Product Manufacturing (NAICS 332) Machinery Manufacturing (NAICS 333)

Computer and Electronic Product Manufacturing (NAICS 334)

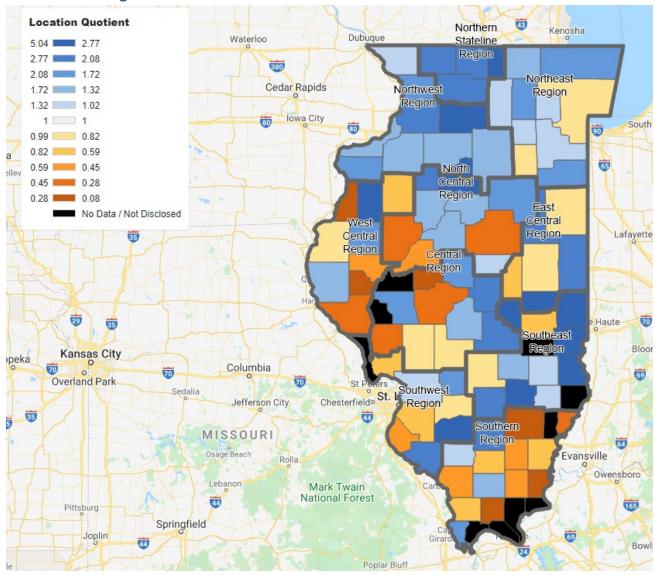
Electrical Equipment, Appliance, and Component Manufacturing (NAICS 335)

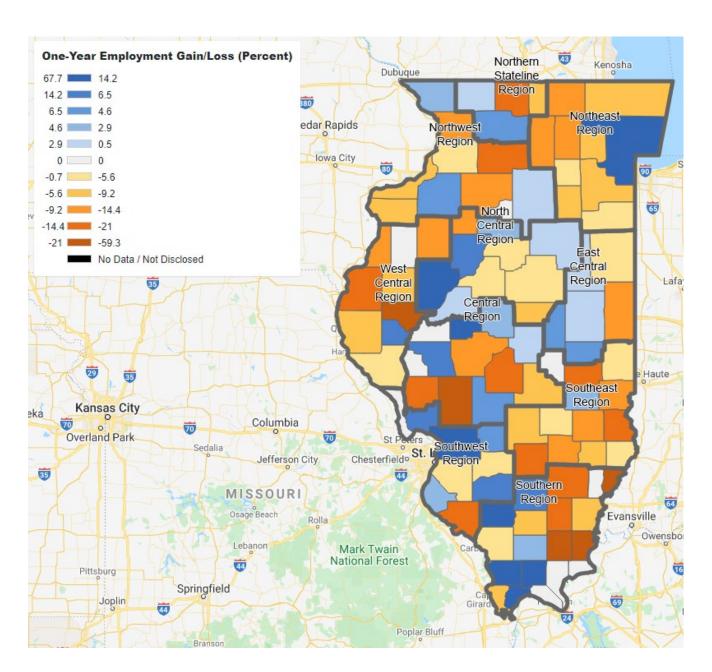
Transportation Equipment Manufacturing (NAICS 336)

Furniture and Related Product Manufacturing (NAICS 337)

Miscellaneous Manufacturing (NAICS 339)

## Manufacturing Location Quotient





### **Natural Resources and Mining**

Agriculture, Forestry, Fishing and Hunting (NAICS 11)

Crop Production (NAICS 111)

Animal Production (NAICS 112)

Forestry and Logging (NAICS 113)

Fishing, Hunting and Trapping (NAICS 114)

Support Activities for Agriculture and Forestry (NAICS 115)

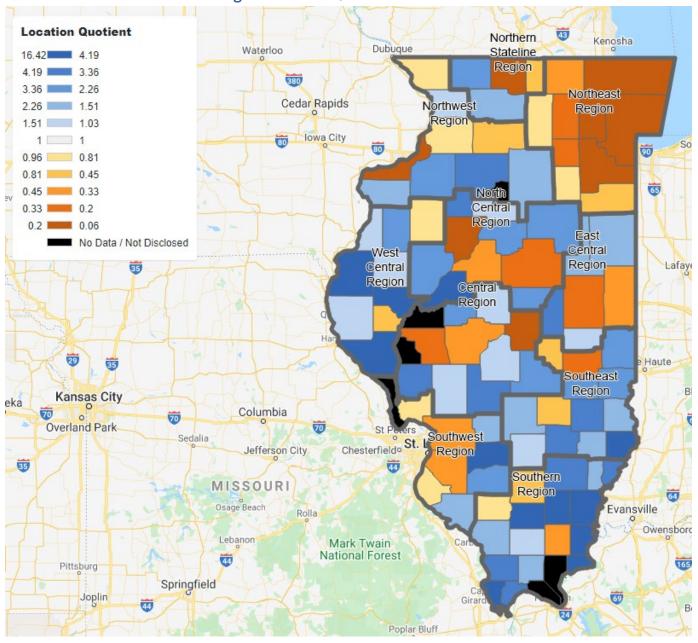
Mining, Quarrying, and Oil and Gas Extraction (NAICS 21)

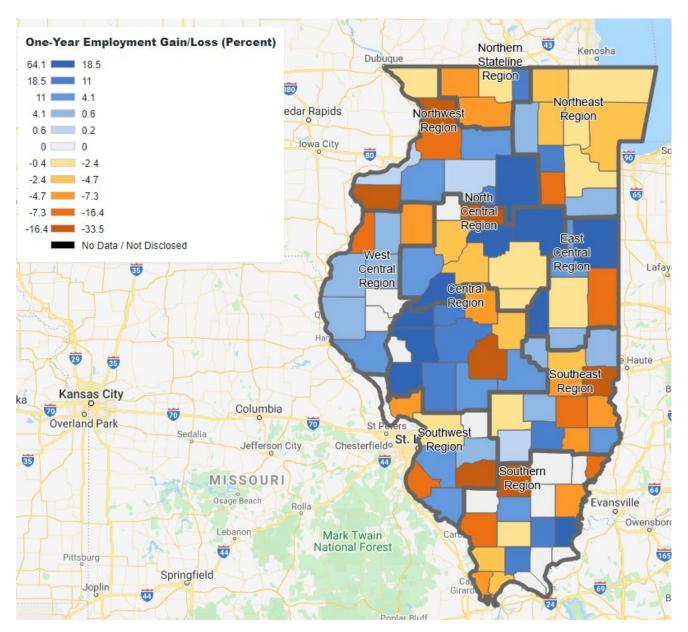
Oil and Gas Extraction (NAICS 211)

Mining (except Oil and Gas) (NAICS 212)

Support Activities for Mining (NAICS 213)

# Natural Resources & Mining Location Quotient





**Professional and Business Services** 

Professional, Scientific, and Technical Services (NAICS 54)

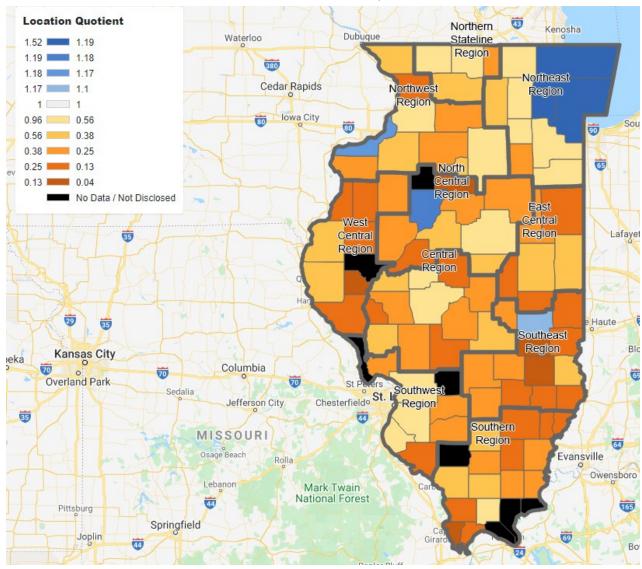
Management of Companies and Enterprises (NAICS 55)

Administrative and Support and Waste Management and Remediation Services (NAICS 56)

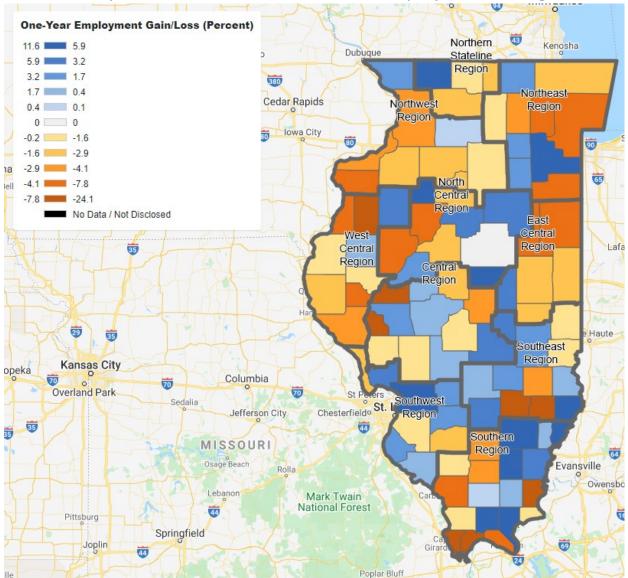
Administrative and Support Services (NAICS 561)

Waste Management and Remediation Services (NAICS 562)

## Professional & Business Services Location Quotient



Trade, Transportation, & Utilities 12 Month Employment Change



Trade, Transportation, and Utilities (List Continues on next page)

Wholesale Trade (NAICS 42)

Merchant Wholesalers, Durable Goods (NAICS 423)

Merchant Wholesalers, Nondurable Goods (NAICS 424)

Wholesale Electronic Markets and Agents and Brokers (NAICS 425)

## Retail Trade (NAICS 44-45)

Motor Vehicle and Parts Dealers (NAICS 441)

Furniture and Home Furnishings Stores (NAICS 442)

Electronics and Appliance Stores (NAICS 443)

Building Material and Garden Equipment and Supplies Dealers (NAICS 444)

Food and Beverage Stores (NAICS 445)

Health and Personal Care Stores (NAICS 446)

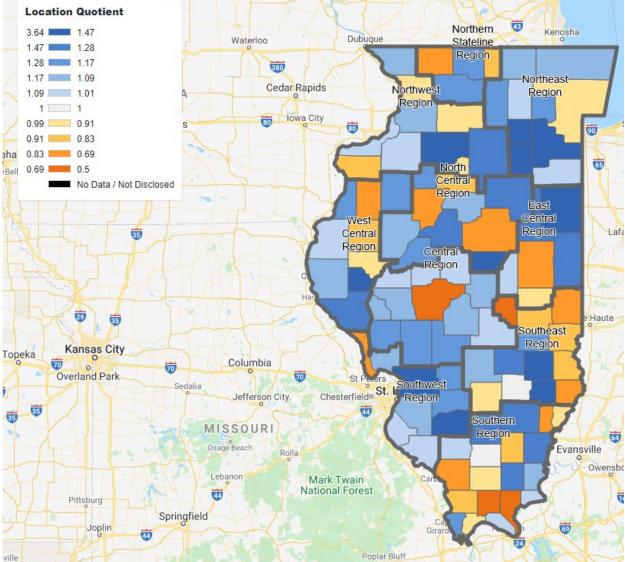
Gasoline Stations (NAICS 447)

Clothing and Clothing Accessories Stores (NAICS 448)

Sporting Goods, Hobby, Book, and Music Stores (NAICS 451)

General Merchandise Stores (NAICS 452) Miscellaneous Store Retailers (NAICS 453) Nonstore Retailers (NAICS 454) Miscellaneous Store Retailers (NAICS 453) Non-store Retailers (NAICS 454) Transportation and Warehousing (NAICS 48-49) Air Transportation (NAICS 481) Rail Transportation (NAICS 482) Water Transportation (NAICS 483) Truck Transportation (NAICS 484) Transit and Ground Passenger Transportation (NAICS 485) Pipeline Transportation (NAICS 486) Scenic and Sightseeing Transportation (NAICS 487) Support Activities for Transportation (NAICS 488) Postal Service (NAICS 491) Couriers and Messengers (NAICS 492) Warehousing and Storage (NAICS 493) Utilities (NAICS 22)

Trade, Transportation, & Utilities Location Quotient **Location Quotient** Northern 3.64 1.47 Dubuque Waterloo Stateline 1.47 \_\_\_\_ 1.28 Region 1.28 1.17 380 1.17 1.09 Cedar Rapids Northwest 1.09 1.01 Region 1 1



	West Central									
	Econmic Development Region - Illinois Community College System									
Fiscal Year	Fiscal Year 2020 Summary of Career & Technical Education Degree & Certificate Graduates									
	Associate in Certificates Certificates									
District ID	College Name	Applied	of One Year	of Less Than	Total					
		Science	or More	One Year						
51801	Carl Sandburg	92	67	34	193					
53901	John Wood	88	58	135	281					
West Central	Total	180	125	169	474					
Statewide Total 9,217 5,493 20,201 34,913										
% of Statewid	le Total	1.95%	2.28%	0.84%	1.36%					

#### Illinois Community College Board

More detailed curriculum-level data about Illinois Community College System students and graduates are available through the ICCB Databook (Table III-3 and Table III-9).

#### ICCB Databook:

http://www2.iccb.org/data/data-characteristics/

Source of Data: ICCB Centralized Data Systen

	West Central  Econmic Development Region - Illinois Community College System  Fiscal Year 2020 Summary of Transfer & General Studies Degrees & Certificates Awarded												
District ID   College Name		Associate in Arts	Associate in Science	Associate in Arts and Science	Associate in Arts in Teaching	Associate in Engineering Science	Associate in Fine Arts	General Education Core Curriculum Credential	ion Liberal General Studies Lum General Ed Certificates		Total		
51801	Carl Sandburg	165	16	0	0	0	2	136	19	0	338		
53901	John Wood	159	23	0	0	0	1	27	0	0	210		
West Central	Total	324	39	0	0	0	3	163	19	0	548		
Statewide Tot	atewide Total 13,579 5,039 308 0 312 111 8,819 2,622 6 30,796												
% of Statewid	e Total	2.39%	0.77%	0.00%	0.00%	0.00%	2.70%	1.85%	0.72%	0.00%	1.78%		

	West Central  Econmic Development Region - Illinois Community College System  Fiscal Year 2020 Summary of Unduplicated Headcount Enrollment by Program Classification											
District ID	College Name	Bacc / Transfer	Vocational	Career and Technical Ed.	ABE	ASE	ESL	General Studies	General Associates	Total	Noncredit Total	
51801	Carl Sandburg	1,846	0	541	0	0	0	0	340	2,727	1,760	
53901	John Wood	1,970	0	631	95	0	0	0	0	2,696	1,135	
West Central	Total	3,816	0	1,172	95	0	0	0	340	5,423	2,895	
State Total		249,146	27,898	119,269	16,680	3,366	26,557	1,216	28,346	472,478	139,808	
% of State Tot	al	1.53%	0.00%	0.98%	0.57%	0.00%	0.00%	0.00%	1.20%	1.15%	2.07%	

ABE = Adult Basic Education; ASE = Adult Secondary Education; ESL = English-as-a-Second Language

<sup>\*\*</sup> Noncredit instruction provides activities that do not meet ICCB Rules for credit courses, such as those designed for specific employers, professional development, or others offered for hobby leisure, or recreational purposes.

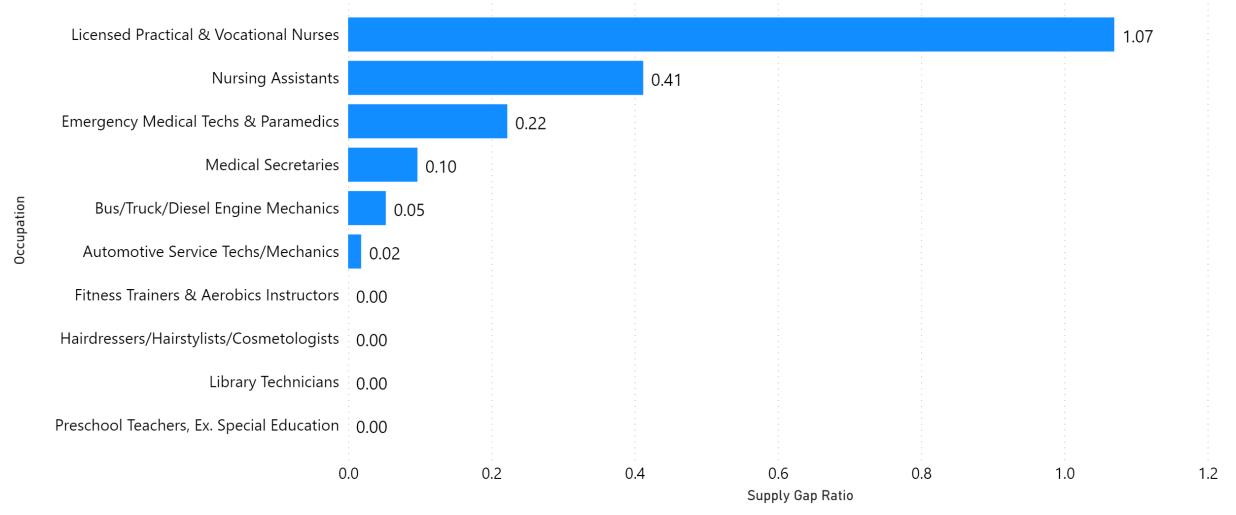
	<u>West Central</u> Econmic Development Region - Illinois Community College System  Fiscal Year 2020 Summary of Graduates by Career Cluster																			
District ID	College Name	Agriculture, Food & Natural Resources	Architecture & Construction	Arts, Audio/Video Technology & Communications	Business Management & Administration	Education & Training	Finance	Government & Public Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Law, Public Safety, Corrections & Security	Manufacturing	Marketing	Science, Technology, Engineering & Mathematics	Transportation, Distribution & Logistics	Associate - Transfer	General Education Core Curriculum Credential (GECC)	Total
51801	Carl Sandburg	0	0	0	17	0	2	0	90	0	9	27	9	38	0	0	1	202	136	531
53901	John Wood	23	18	3	23	0	2	0	121	0	1	0	14	66	0	0	10	183	27	491
West Central	Total	23	18	3	40	0	4	0	211	0	10	27	23	104	0	0	11	385	163	1,022
State Total	•	1,497	2,650	613	2,915	333	760	0	12,607	1,065	1,899	1,896	1,580	3,556	229	126	3,191	21,971	8,819	65,707
% of State Tot	al	1.54%	0.68%	0.49%	1.37%	0.00%	0.53%	0.00%	1.67%	0.00%	0.53%	1.42%	1.46%	2.92%	0.00%	0.00%	0.34%	1.75%	1.85%	1.56%

# Supply Gap Analysis for Occupations Requiring a Certificate or License

Region

West Central

The supply gap ratio is a proxy measure the provides insight on how closely supply aligns with demand for selected occupations. The calculation of the ratio is supply / demand. In this case, the supply is the number of program completions in the region associated with the occupation and the demand is the estimated number of regional job openings. A gap ratio of one indicates one completer per projected job opening. Gaps lower than one indicate more job openings than completers, and gaps greater than 1 indicate more completers than openings.

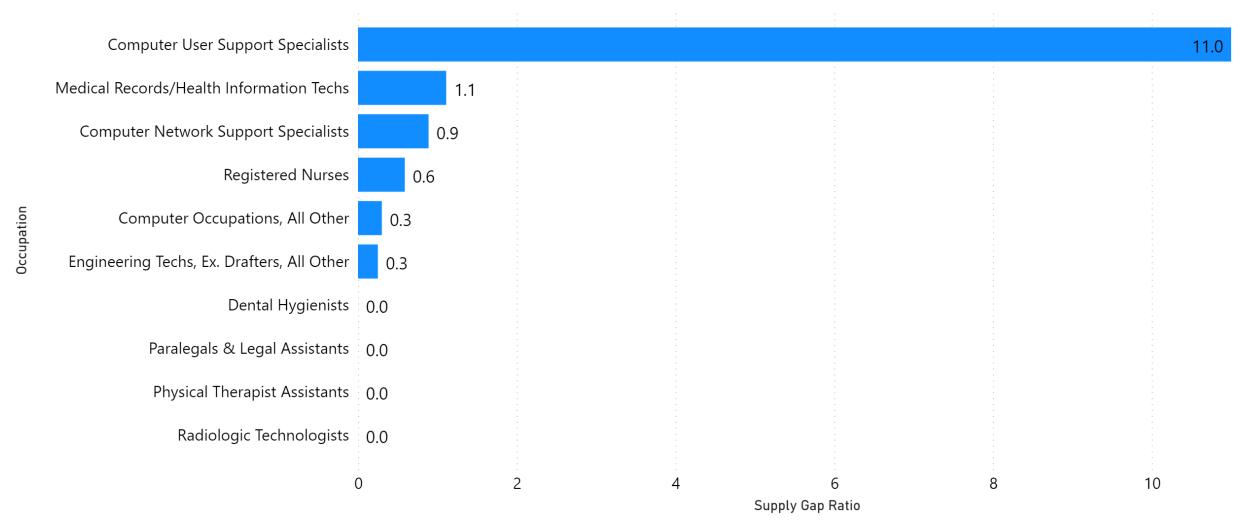


# Supply Gap Analysis for Occupations Requiring an Associate's Degree

Region

West Central

The supply gap ratio is a proxy measure the provides insight on how closely supply aligns with demand for selected occupations. The calculation of the ratio is supply / demand. In this case, the supply is the number of program completions in the region associated with the occupation and the demand is the estimated number of regional job openings. A gap ratio of one indicates one completer per projected job opening. Gaps lower than one indicate more job openings than completers, and gaps greater than 1 indicate more completers than openings.

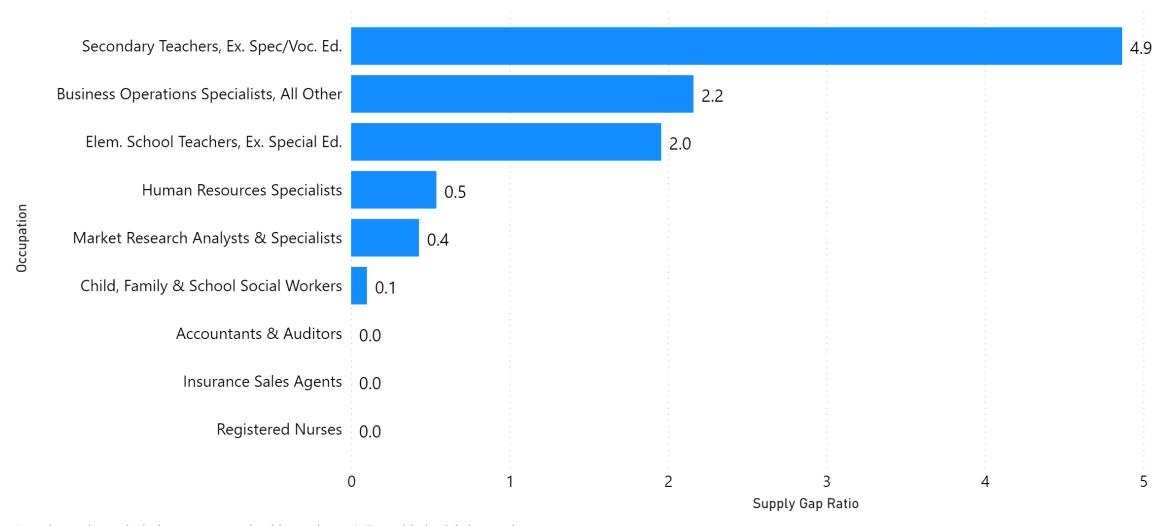


# Supply Gap Analysis for Occupations Requiring a Bachelor's Degree

Region

West Central

The supply gap ratio is a proxy measure the provides insight on how closely supply aligns with demand for selected occupations. The calculation of the ratio is supply / demand. In this case, the supply is the number of program completions in the region associated with the occupation and the demand is the estimated number of regional job openings. A gap ratio of one indicates one completer per projected job opening. Gaps lower than one indicate more job openings than completers, and gaps greater than 1 indicate more completers than openings.

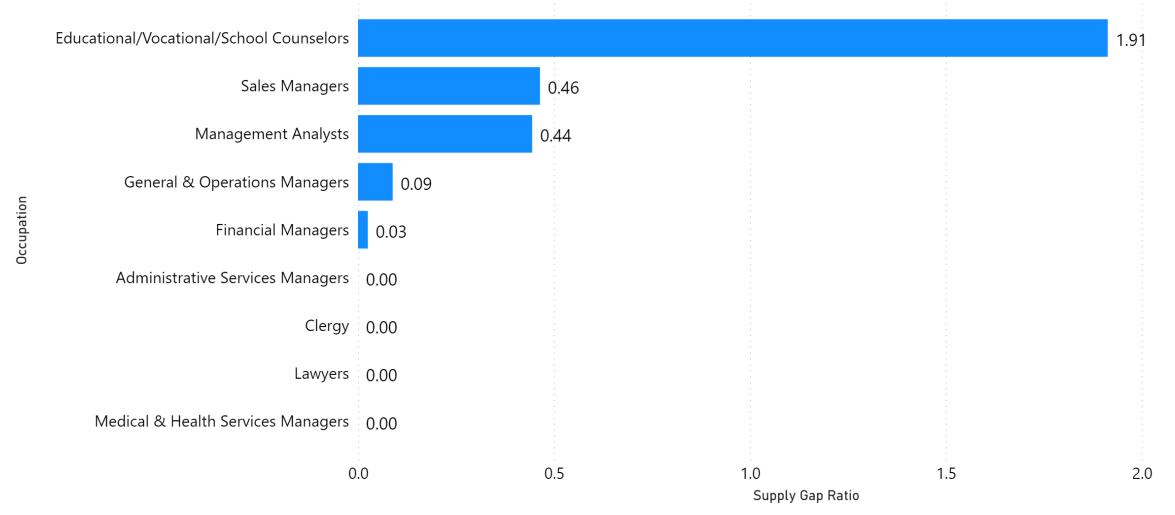


# Supply Gap Analysis for Occupations Requiring more than a Bachelor's Degree

Region

West Central

The supply gap ratio is a proxy measure the provides insight on how closely supply aligns with demand for selected occupations. The calculation of the ratio is supply / demand. In this case, the supply is the number of program completions in the region associated with the occupation and the demand is the estimated number of regional job openings. A gap ratio of one indicates one completer per projected job opening. Gaps lower than one indicate more job openings than completers, and gaps greater than 1 indicate more completers than openings.



### Region

West Central

# **Demand Occupations Requiring a Certificate or License**

Occupation	Average Annual Job Openings	Skills	Hourly Entry Wage	Hourly Experienced Wage
Hairdressers/Hairstylists/Cosmetologists	38	Active Listening, Speaking, Service Orientation	14.65	25
Emergency Medical Techs & Paramedics	18	Critcal Thinking, Active Listening, Coordination	12.3	17.39
Automotive Service Techs/Mechanics	55	Equipment Maintenance, Repairing, Troubleshooting	13.67	23.66
Fitness Trainers & Aerobics Instructors	42	Instructing, Service Orientation, Social Perceptiveness	10.11	15.78
Library Technicians	13	Reading Comprehension, Speaking, Active Listening	11.74	19.62
Bus/Truck/Diesel Engine Mechanics	19	Repairing, Troubleshooting, Operation & Control	12.59	23.55
Licensed Practical & Vocational Nurses	43	Service Orientation, Active Listening, Coordination	17.5	24.37
Nursing Assistants	216	Service Orientation, Active Listening, Social Perceptiveness	11.66	15.39
Medical Secretaries	31	Speaking, Active Listening, Service Orientation	11.66	20.2
Preschool Teachers, Ex. Special Education	29	Speaking, Learning Strategies, Instructing	10.7	17.94

# **Demand Occupations Requiring an Associate's Degree**

Occupation	Average Annual Job Openings	Skills	Hourly Entry Wage	Hourly Experienced Wage
Engineering Techs, Ex. Drafters, All Other	12	Active Listening, Critical Thinking, Reading Comprehension	20.07	31.71
Physical Therapist Assistants	11	Active Listening, Monitoring, Social Perceptiveness	25.73	33.58
Registered Nurses	163	Active Listening, Social Perceptiveness, Service Orientation	23.3	32.87
Computer User Support Specialists	19	Active Listening, Speaking, Reading Comprehension	14.05	26.86
Radiologic Technologists	6	Active Listening, Speaking, Reading Comprehension	20.88	29.12
Computer Network Support Specialists	9	Critical Thinking, Active Listening, Judgement/Decision Making	15.8	30.49
Computer Occupations, All Other	10	Critical Thinking, Reading Comprehension, Active Listening	21.66	35.8
Medical Records/Health Information Techs	9	Reading Comprehension, Active Listening, Critical Thinking	12.98	23.8
Paralegals & Legal Assistants	10	Reading Comprehension, Active Listening, Speaking	20.22	35.86
Dental Hygienists	6	Speaking, Active Listening, Critical Thinking	NA	NA

### Region

West Central

# **Demand Occupations Requiring a Bachelor's Degree**

Occupation	Average Annual Job Openings	Skills	Hourly Entry Wage	Hourly Experienced Wage
Business Operations Specialists, All Other	87	Active Listening, Critical Thinking, Reading Comprehension	19.89	40.75
Accountants & Auditors	63	Active Listening, Mathematics, Reading Comprehension	14.15	32.29
Insurance Sales Agents	47	Active Listening, Reading Comprehension, Speaking	15.41	36.91
Registered Nurses	163	Active Listening, Social Perceptiveness, Service Orientation	23.3	32.87
Child, Family & School Social Workers	30	Active Listening, Speaking, Reading Comprehension	13.55	25.24
Human Resources Specialists	26	Active Listening, Speaking, Reading Comprehension	15.61	29.9
Secondary Teachers, Ex. Spec/Voc. Ed.	45	Instructing, Learning Strategies, Speaking	NA	NA
Elem. School Teachers, Ex. Special Ed.	70	Instructing, Speaking, Learning Strategies	NA	NA
Market Research Analysts & Specialists	35	Reading Comprehension, Active Listening, Complex Problem Solving	14.97	28.43
Substitute Teachers	42	Speaking, Instructing, Learning Strategies	NA	NA

# **Demand Occupations Requiring Education Beyond a Bachelor's Degree**

Occupation	Average Annual Job Openings	Skills	Hourly Entry Wage	Hourly Experienced Wage
General & Operations Managers	147	Active Listening, Coordination, Monitoring	21.16	49.7
Financial Managers	40	Active Listening, Critical Thinking, Monitoring	26.06	56.56
Management Analysts	27	Active Listening, Critical Thinking, Reading Comprehension	21.79	46.38
Educational/Vocational/School Counselors	23	Active Listening, Speaking, Reading Comprehension	16.05	26.21
Lawyers	17	Active Listening, Speaking, Reading Comprehension	26.77	61.21
Sales Managers	28	Persuasion, Active Listening, Speaking	27.45	59.45
Administrative Services Managers	18	Speaking, Active Listening, Coordination	22.51	45.22
Clergy	26	Speaking, Active Listening, Service Orientation	13.98	28.06
Medical & Health Services Managers	22	Speaking, Critical Thinking, Active Listening	29.41	51.05
Health Specialties Teachers, College	19	Speaking, Instructing, Reading Comprehension	NA	NA

Sector	Agribusiness AgTech				
000101	7 g.12 d.3.11 e.3.1				
Region	West Central				
	_				
* Data sou	rced from Burning Glass 2021 estimates				
SOC	Description	2024 Llivaa	2021	2021 Turnover	2021 Jobs
30C	Description	2021 Hires	Separations	Rate	2021 JODS
45-2000	Agricultural Workers	1,355	1,347	103%	1,307
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
51-6000	Textile, Apparel, and Furnishings Workers	240	270	65%	413
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
53-7000	Material Moving Workers	2,724	2,664	61%	4,363
39-2000	Animal Care and Service Workers	118	108	60%	179
31-9000	Other Healthcare Support Occupations	378	384	52%	740
53-3000	Motor Vehicle Operators	2,028	1,909	50%	3,832
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	567	610	44%	1,382
51-9000	Other Production Occupations	767	816	43%	1,879
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
51-3000	Food Processing Workers	366	373	40%	935
29-2000	Health Technologists and Technicians	811	859	38%	2,286
51-1000	Supervisors of Production Workers	146	148	33%	444
41-4000	Sales Representatives, Wholesale and Manufacturing	341	308	33%	937
11-3000	Operations Specialties Managers	390	326	31%	1,051
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
29-1000	Healthcare Diagnosing or Treating Practitioners	700	732	21%	3,436
Totals		18,831	19,143	47%	40,317

Sector	Energy				
Sector	Lileigy				
Region	West Central				
Region	West_Ceritial				
*Data cou	rced from 2021 Burning Glass estimates				
Data Sou	liced from 2021 Burning Glass estimates				
				2021 Turnover	
soc	Description	2021 Hires	2021 Separations	Rate	2021 Jobs
47-5000	Extraction Workers	120	171	103%	166
47-3000	Helpers, Construction Trades	62	56	91%	61
41-2000	Retail Sales Workers	4,149	4,288	90%	4,785
47-1000	Supervisors of Construction and Extraction Workers	184	164	73%	223
47-2000	Construction Trades Workers	2,054	1,852	71%	2,615
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
19-4000	Life, Physical, and Social Science Technicians	107	105	61%	172
53-7000	Material Moving Workers	2,724	2,664	61%	4,363
43-6000	Secretaries and Administrative Assistants	906	1,066	61%	1,757
51-8000	Plant and System Operators	86	94	51%	183
53-3000	Motor Vehicle Operators	2,028	1,909	50%	3,832
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
41-3000	Sales Representatives, Services	405	372	45%	824
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	567	610	44%	1,382
51-9000	Other Production Occupations	767	816	43%	1,879
41-1000	Supervisors of Sales Workers	386	383	43%	885
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
51-4000	Metal Workers and Plastic Workers	560	697	38%	1,830
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	114	109	37%	293
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	94	106	36%	292
51-2000	Assemblers and Fabricators	471	551	36%	1,539
13-2000	Financial Specialists	388	359	35%	1,036
15-1200	Computer Occupations	282	261	34%	770
41-4000	Sales Representatives, Wholesale and Manufacturing	341	308	33%	937
11-3000	Operations Specialties Managers	390	326	31%	1,051
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
17-2000	Engineers	117	118	25%	469
Totals		25,203	25.672	53%	48.475

Sector	Healthcare				
Sector	neaulcale				
Region	West Central				
rtegion	West_Genual				
*Data sour	ced from 2021 Burning Glass estimates				
Data soul	Oct 110111 2021 Butting Glass countains				
000		0004111	0004.0 "	2021 Turnover	0004.1.1
soc	Description	2021 Hires	2021 Separations	Rate	2021 Jobs
35-3000	Food and Beverage Serving Workers	5,176	6,000	157%	3,817
35-2000	Cooks and Food Preparation Workers	1,877	2,055	112%	1,829
41-2000	Retail Sales Workers	4,149	4,288	90%	4,785
37-2000	Building Cleaning and Pest Control Workers	1,446	1,518	76%	1,987
31-1100	Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides	2,262	2,323	76%	3,063
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	82	81	65%	123
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
43-6000	Secretaries and Administrative Assistants	906	1,066	61%	1,757
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	801	868	52%	1,660
31-9000	Other Healthcare Support Occupations	378	384	52%	740
43-1000	Supervisors of Office and Administrative Support Workers	332	355	48%	735
43-3000	Financial Clerks	986	1,077	48%	2,234
13-1000	Business Operations Specialists	858	773	41%	1,866
29-2000	Health Technologists and Technicians	811	859	38%	2,286
15-1200	Computer Occupations	282	261	34%	770
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
29-1000	Healthcare Diagnosing or Treating Practitioners	700	732	21%	3,436
Totals		25,345	27,294	68%	40,131

Sector	Hospitality				
Sector	Tiospitality				
Region	West Central				
region	West_Ochia				
*Data sour	rced from 2021 Burning Glass estimates				
Data oou.	John 2021 Barring Glass sommates				
000	D	000411	0004.0 "	2021 Turnover	2224 1 1
soc	Description	2021 Hires	2021 Separations	Rate	2021 Jobs
35-3000	Food and Beverage Serving Workers	5,176	6,000	157%	3,817
39-3000	Entertainment Attendants and Related Workers	193	195	148%	132
35-9000	Other Food Preparation and Serving Related Workers	449	493	144%	342
35-1000	Supervisors of Food Preparation and Serving Workers	562	630	113%	558
35-2000	Cooks and Food Preparation Workers	1,877	2,055	112%	1,829
33-9000	Other Protective Service Workers	419	465	106%	439
39-6000	Baggage Porters, Bellhops, and Concierges	11	10	95%	11
39-7000	Tour and Travel Guides	16	14	90%	16
41-2000	Retail Sales Workers	4,149	4,288	90%	4,785
37-2000	Building Cleaning and Pest Control Workers	1,446	1,518	76%	1,987
37-3000	Grounds Maintenance Workers	673	712	76%	939
39-9000	Other Personal Care and Service Workers	791	846	70%	1,213
27-2000	Entertainers and Performers, Sports and Related Workers	252	265	66%	402
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
51-6000	Textile, Apparel, and Furnishings Workers	240	270	65%	413
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
39-1000	Supervisors of Personal Care and Service Workers	61	62	62%	100
43-1000	Supervisors of Office and Administrative Support Workers	332	355	48%	735
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	63	59	45%	131
41-3000	Sales Representatives, Services	405	372	45%	824
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
Totals		25,016	26.899	75%	35,808

Sector	InfoTech						
Region	West Central						
*Data soul	*Data sourced from 2021 Burning Glass estimates						
	-						
soc	Description	2021 Hires	2021 Separations	2021 Turnover Rate	2021 Jobs		
47-2000	Construction Trades Workers	2,054	1,852	71%	2,615		
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873		
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664		
53-7000	Material Moving Workers	2,724	2,664	61%	4,363		
43-6000	Secretaries and Administrative Assistants	906	1,066	61%	1,757		
43-3000	Financial Clerks	986	1,077	48%	2,234		
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112		
19-1000	Life Scientists	38	42	48%	88		
41-3000	Sales Representatives, Services	405	372	45%	824		
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	567	610	44%	1,382		
51-9000	Other Production Occupations	767	816	43%	1,879		
13-1000	Business Operations Specialists	858	773	41%	1,866		
11-1000	Top Executives	755	775	41%	1,879		
51-4000	Metal Workers and Plastic Workers	560	697	38%	1,830		
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	115	120	37%	320		
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	114	109	37%	293		
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	94	106	36%	292		
51-2000	Assemblers and Fabricators	471	551	36%	1,539		
13-2000	Financial Specialists	388	359	35%	1,036		
15-1200	Computer Occupations	282	261	34%	770		
41-4000	Sales Representatives, Wholesale and Manufacturing	341	308	33%	937		
11-3000	Operations Specialties Managers	390	326	31%	1,051		
11-9000	Other Management Occupations	1,014	1,035	30%	3,504		
17-2000	Engineers	117	118	25%	469		
Totals		18,235	18,665	48%	38,576		

Sector	Life_Science				
Region	West_Central				
*Data sour	rced from 2021 Burning Glass estimates				
soc	Description		2021 Separations	Rate	2021 Jobs
35-3000	Food and Beverage Serving Workers	5,176	6,000		3,817
35-2000	Cooks and Food Preparation Workers	1,877	2,055	112%	1,829
41-2000	Retail Sales Workers	4,149	4,288	90%	4,785
37-2000	Building Cleaning and Pest Control Workers	1,446	1,518	76%	1,987
31-1100	Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides	2,262	2,323	76%	3,063
39-9000	Other Personal Care and Service Workers	791	846	70%	1,213
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
43-6000	Secretaries and Administrative Assistants	906	1,066	61%	1,757
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	801	868	52%	1,660
31-9000	Other Healthcare Support Occupations	378	384	52%	740
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
19-1000	Life Scientists	38	42	48%	88
51-9000	Other Production Occupations	767	816	43%	1,879
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
29-2000	Health Technologists and Technicians	811	859	38%	2,286
15-1200	Computer Occupations	282	261	34%	770
11-3000	Operations Specialties Managers	390	326	31%	1,051
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
17-2000	Engineers	117	118	25%	469
29-1000	Healthcare Diagnosing or Treating Practitioners	700	732	21%	3,436
Totals		28.793	30,789	64%	47.964

Sector	Manufacturing				
Sector	Manuacturing				
Region	West Central				
Region	West_Ceritial				
*Data sou	rced from 2021 Burning Glass estimates				
Data coa	Sod from 2021 Burning Glass Southlates				
				2021 Turnover	
SOC	Description	2021 Hires	2021 Separations	Rate	2021 Jobs
47-2000	Construction Trades Workers	2,054	1,852	71%	2,615
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
53-7000	Material Moving Workers	2,724	2,664	61%	4,363
51-5100	Printing Workers	31	38	53%	71
53-3000	Motor Vehicle Operators	2,028	1,909	50%	3,832
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	567	610	44%	1,382
51-9000	Other Production Occupations	767	816	43%	1,879
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
51-7000	Woodworkers	105	69	39%	176
51-4000	Metal Workers and Plastic Workers	560	697	38%	1,830
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	94	106	36%	292
51-2000	Assemblers and Fabricators	471	551	36%	1,539
15-1200	Computer Occupations	282	261	34%	770
51-1000	Supervisors of Production Workers	146	148	33%	444
41-4000	Sales Representatives, Wholesale and Manufacturing	341	308	33%	937
11-3000	Operations Specialties Managers	390	326	31%	1,051
11-9000	Other Management Occupations	1,014	1,035	30%	3,504
17-2000	Engineers	117	118	25%	469
Totals		18,578	18,762	48%	38,781

Castan	Transportation Indiction				
Sector	Transportation_Logistics				
	March Outline				
Region	West_Central				
± D .	16 0004 B : 01				
^Data sour	ced from 2021 Burning Glass estimates				
soc	Description	2021 Hires	2021 Separations	2021 Turnover	2021 Jobs
				Rate	
41-2000	Retail Sales Workers	4,149	4,288	90%	4,785
43-9000	Other Office and Administrative Support Workers	1,665	1,884	66%	2,873
43-4000	Information and Record Clerks	1,620	1,737	65%	2,664
53-4000	Rail Transportation Workers	352	354	63%	564
53-7000	Material Moving Workers	2,724	2,664	61%	4,363
43-6000	Secretaries and Administrative Assistants	906	1,066	61%	1,757
53-1000	Supervisors of Transportation and Material Moving Workers	130	118	52%	229
53-2000	Air Transportation Workers	12	13	51%	25
53-3000	Motor Vehicle Operators	2,028	1,909	50%	3,832
43-1000	Supervisors of Office and Administrative Support Workers	332	355	48%	735
43-3000	Financial Clerks	986	1,077	48%	2,234
49-9000	Other Installation, Maintenance, and Repair Occupations	1,004	1,008	48%	2,112
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	655	668	47%	1,413
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	567	610	44%	1,382
51-9000	Other Production Occupations	767	816	43%	1,879
41-1000	Supervisors of Sales Workers	386	383	43%	885
13-1000	Business Operations Specialists	858	773	41%	1,866
11-1000	Top Executives	755	775	41%	1,879
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	115	120	37%	320
15-1200	Computer Occupations	282	261	34%	770
41-4000	Sales Representatives, Wholesale and Manufacturing	341	308	33%	937
11-3000	Operations Specialties Managers	390	326	31%	1,051
Totals		21,022	21,512	56%	38,557

0	Warehouse Transportation				
Sector	warenouse_transportation				
Region	West Central				
-n .	W 2004 D 1 01 11 1				
^Data sour	ced from 2021 Burning Glass estimates				
				2004 T	
soc	Description	2021 Hires	2021 Separations	2021 Turnover Rate	2021 Jobs
53-2011	Airline Pilots, Copilots, and Flight Engineers	<10	<10	N/A	<10
53-2031	Flight Attendants	0	0	N/A	0
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	29	34	81%	42
53-3052	Bus Drivers, Transit and Intercity	33	35	78%	45
53-7065	Stockers and Order Fillers	724	676	72%	944
43-9061	Office Clerks, General	1,537	1,737	67%	2,593
53-7064	Packers and Packagers, Hand	177	181	66%	273
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	126	143	62%	233
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	1,464	1,466	60%	2,427
43-4051	Customer Service Representatives	733	749	58%	1,299
53-3033	Light Truck Drivers	668	651	52%	1,241
53-1047	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	130	118	52%	229
43-5021	Couriers and Messengers	21	24	49%	48
43-1011	First-Line Supervisors of Office and Administrative Support Workers	332	355	48%	735
43-5032	Dispatchers, Except Police, Fire, and Ambulance	43	44	47%	94
53-3032	Heavy and Tractor-Trailer Truck Drivers	990	880	45%	1,948
43-5011	Cargo and Freight Agents	21	18	44%	42
11-1021	General and Operations Managers	617	620	43%	1,447
53-7051	Industrial Truck and Tractor Operators	188	179	42%	422
49-3011	Aircraft Mechanics and Service Technicians	11	12	41%	30
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	111	100	40%	249
43-5071	Shipping, Receiving, and Inventory Clerks	152	167	40%	422
Totals	· · · · · · · · · · · · · · · · · · ·	8,108	8,194	55%	14.772