HOUSEHOLD DATA ANNUAL AVERAGES

53. Certification and licensing status of the employed by occupation, 2024 annual averages

[Numbers in thousands]

Total employed Total Gentification, but no but n	Occupation		Percent distribution				
Total				With a certification or license ¹			
Management, professional, and related occupations. 70,744 100.0 33.8 3.4 30.5 66.2 Management, business, and financial operations occupations. 30,602 100.0 21.0 3.3 17.7 79.0 Management occupations. 20,657 100.0 20.9 3.1 17.8 79.1 Business and financial operations occupations. 40,142 100.0 43.6 3.4 40.2 56.4 Computer and mathematical occupations. 6,386 100.0 13.1 6.1 7.0 86.9 Architecture and engineering occupations. 3,552 100.0 21.2 3.4 17.8 78.8 Life, physical, and social science occupations. 1,877 100.0 24.0 2.8 21.2 76.0 Community and social science occupations. 1,832 100.0 39.4 3.6 35.8 60.6 Legal occupations. 1,832 100.0 56.2 3.1 62.2 34.8 Education, training, and library occupations. 3,483 100.0 56.0				Total	certification, but no		Without a certification or license
Management, business, and financial operations occupations	Total, 16 years and over	161,346	100.0	24.0	2.4	21.6	76.0
Management, business, and financial operations occupations	Management, professional, and related occupations	70,744	100.0	33.8	3.4	30.5	66.2
Management occupations. 20,657 100.0 20.9 3.1 17.8 79.1 Business and financial operations occupations. 9,945 100.0 21.2 3.8 17.4 78.8 Professional and related occupations. 40,142 100.0 43.6 3.4 40.2 56.4 Computer and mathematical occupations. 6,386 100.0 13.1 6.1 7.0 86.9 Architecture and engineering occupations. 3,552 100.0 21.2 3.4 17.8 78.8 Life, physical, and social science occupations. 2,950 100.0 39.4 3.6 35.8 60.6 Community and social science occupations. 2,950 100.0 39.4 3.6 35.8 60.6 Legal occupations. 1,832 100.0 65.2 3.1 62.2 34.8 Arts, design, entertainment, sports, and media occupations. 9,587 100.0 50.8 1.6 49.2 49.2 Arts, design, entertainment, sports, and media occupations. 10,475 100.0 75.0	Management, business, and financial operations						
Business and financial operations occupations. 9,945 100.0 21.2 3.8 17.4 78.8	occupations	30,602	100.0	21.0	3.3	17.7	79.0
Professional and related occupations.	Management occupations	20,657	100.0	20.9	3.1	17.8	79.1
Computer and mathematical occupations. 6,386 100.0 13.1 6.1 7.0 86.9 Architecture and engineering occupations. 3,552 100.0 21.2 3.4 17.8 78.8 Life, physical, and social science occupations. 1,877 100.0 24.0 2.8 21.2 76.0 Community and social services occupations. 2,950 100.0 39.4 3.6 35.8 60.6 Legal occupations. 1,832 100.0 65.2 3.1 62.2 34.8 Education, training, and library occupations. 9,587 100.0 50.8 1.6 49.2 49.2 Arts, design, entertainment, sports, and media occupations. 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations. 26,452 100.0 75.0 3.7 71.3 25.0 Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 3,110 100.0 34.7 1.6	Business and financial operations occupations	9,945	100.0	21.2	3.8	17.4	78.8
Architecture and engineering occupations	Professional and related occupations	40,142	100.0	43.6	3.4	40.2	56.4
Life, physical, and social science occupations. 1,877 100.0 24.0 2.8 21.2 76.0 Community and social services occupations. 2,950 100.0 39.4 3.6 35.8 60.6 Legal occupations. 1,832 100.0 65.2 3.1 62.2 34.8 Education, training, and library occupations. 9,587 100.0 50.8 1.6 49.2 49.2 Arts, design, entertainment, sports, and media occupations. 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations. 10,475 100.0 75.0 3.7 71.3 25.0 Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations. 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations. 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 14,090 100.0 16.2 1.6 14.5 33.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 970 100.0 14.1 1.5 12.6 85.9 Production occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	Computer and mathematical occupations	6,386	100.0	13.1	6.1	7.0	86.9
Community and social services occupations. 2,950 100.0 39.4 3.6 35.8 60.6 Legal occupations. 1,832 100.0 65.2 3.1 62.2 34.8 Education, training, and library occupations. 9,587 100.0 50.8 1.6 49.2 49.2 Arts, design, entertainment, sports, and media occupations. 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations. 10,475 100.0 75.0 3.7 71.3 25.0 Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 3,110 100.0 36.4 2.5 33.9 63.6 Protective service occupations. 3,110 100.0 34.7 1.6 33.1 65.2 Building and grounds cleaning and maintenance occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and service occupations. 4,055 100.0 7.4 0.8	Architecture and engineering occupations	3,552	100.0	21.2	3.4	17.8	78.8
Legal occupations	Life, physical, and social science occupations	1,877	100.0	24.0	2.8	21.2	76.0
Education, training, and library occupations. 9,587 100.0 50.8 1.6 49.2 49.2 Arts, design, entertainment, sports, and media occupations. 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations. 10,475 100.0 75.0 3.7 71.3 25.0 Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations. 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations. 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 14,090 100.0 16.2 <t< td=""><td>Community and social services occupations</td><td>2,950</td><td>100.0</td><td>39.4</td><td>3.6</td><td>35.8</td><td>60.6</td></t<>	Community and social services occupations	2,950	100.0	39.4	3.6	35.8	60.6
Arts, design, entertainment, sports, and media occupations. 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations. 10,475 100.0 75.0 3.7 71.3 25.0 Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations. 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations. 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. <t< td=""><td>Legal occupations</td><td>1,832</td><td>100.0</td><td>65.2</td><td>3.1</td><td>62.2</td><td>34.8</td></t<>	Legal occupations	1,832	100.0	65.2	3.1	62.2	34.8
occupations 3,483 100.0 10.6 2.3 8.3 89.4 Healthcare practitioners and technical occupations 10,475 100.0 75.0 3.7 71.3 25.0 Service occupations 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations 14,095 100.0 13.1 1.5 11.6 86.9 Sales and related occupations 14,090 100.0 16.2 1.6 14.5 83.8 <t< td=""><td>Education, training, and library occupations</td><td>9,587</td><td>100.0</td><td>50.8</td><td>1.6</td><td>49.2</td><td>49.2</td></t<>	Education, training, and library occupations	9,587	100.0	50.8	1.6	49.2	49.2
Healthcare practitioners and technical occupations.	Arts, design, entertainment, sports, and media						
Service occupations. 26,452 100.0 20.7 1.7 19.1 79.3 Healthcare support occupations. 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations. 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations. 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 970 100.0 8.8 0.9 <	occupations	3,483	100.0	10.6	2.3	8.3	89.4
Healthcare support occupations 5,456 100.0 36.4 2.5 33.9 63.6 Protective service occupations 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations <td< td=""><td>Healthcare practitioners and technical occupations</td><td>10,475</td><td>100.0</td><td>75.0</td><td>3.7</td><td>71.3</td><td>25.0</td></td<>	Healthcare practitioners and technical occupations	10,475	100.0	75.0	3.7	71.3	25.0
Protective service occupations 3,110 100.0 34.7 1.6 33.1 65.3 Food preparation and serving related occupations 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations 4,901 100.0 22.0 <	Service occupations	26,452	100.0	20.7	1.7	19.1	79.3
Food preparation and serving related occupations. 8,061 100.0 7.2 1.0 6.3 92.8 Building and grounds cleaning and maintenance occupations. 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 4,901 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0	Healthcare support occupations	5,456	100.0	36.4	2.5	33.9	63.6
Building and grounds cleaning and maintenance occupations	•	3,110	100.0	34.7	1.6	33.1	65.3
occupations 5,770 100.0 7.4 0.8 6.6 92.6 Personal care and service occupations 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations 7,944 100.0 9.6 1.9	Food preparation and serving related occupations	8,061	100.0	7.2	1.0	6.3	92.8
Personal care and service occupations. 4,055 100.0 34.6 3.2 31.5 65.4 Sales and office occupations. 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4		5 770	100.0	7.4	0.8	6.6	92.6
Sales and office occupations. 29,885 100.0 13.1 1.5 11.6 86.9 Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	•	·					
Sales and related occupations. 14,090 100.0 16.2 1.6 14.5 83.8 Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	·	·			_		
Office and administrative support occupations. 15,795 100.0 10.4 1.3 9.0 89.6 Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	•	· '			_		
Natural resources, construction, and maintenance occupations. 14,391 100.0 18.4 2.5 15.8 81.6 Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	·	·		_	_	_	
occupations	·····	13,793	100.0	10.4	1.5	9.0	09.0
Farming, fishing, and forestry occupations. 970 100.0 8.8 0.9 7.8 91.2 Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4		14.391	100.0	18.4	2.5	15.8	81.6
Construction and extraction occupations. 8,520 100.0 17.3 1.9 15.5 82.7 Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	·	· ·	100.0				91.2
Installation, maintenance, and repair occupations. 4,901 100.0 22.0 4.0 18.0 78.0 Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4							82.7
Production, transportation, and material moving occupations. 19,873 100.0 14.1 1.5 12.6 85.9 Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	•						78.0
Production occupations. 7,944 100.0 9.6 1.9 7.7 90.4	Production, transportation, and material moving	,					
	·	·					
Transportation and material moving occupations 11 930 1000 1/1 19 19 15 9 189 9	Transportation and material moving occupations	11,930	100.0	17.1	1.2	15.9	82.9

¹ A person may have more than one certification or license.
² Persons with a license may also have a certification.

NOTE: Certifications are issued by a non-governmental certification body and convey that an individual has the knowledge or skill to perform a specific job. A license is awarded by a government agency and conveys a legal authority to work in an occupation. Updated population controls are introduced annually with the release of January data.