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## OCCUPATIONAL EMPLOYMENT AND WAGES — MAY 2019

Installation, maintenance, and repair occupations had employment of 5.7 million in May 2019, representing 3.9 percent of total national employment, the U.S. Bureau of Labor Statistics reported today. The largest installation, maintenance, and repair occupation was general maintenance and repair workers (1.4 million) and the highest paying installation, maintenance, and repair occupation was powerhouse, substation, and relay electrical and electronics repairers (\$81,280). (See charts 1 and 2.) The annual mean wage across all installation, maintenance, and repair occupations was \$50,130, compared with the U.S. average wage of \$53,490. (See table 1.)

The Occupational Employment Statistics (OES) program provides employment and wage estimates for nearly 800 occupations in the nation, states, and approximately 530 areas. National data are available by industry for approximately 415 industry classifications and by ownership across all industries, schools, and hospitals. This news release features installation, maintenance, and repair; sales and related; and community and social service occupations, in addition to STEM (science, technology, engineering, and mathematics) occupations and employment and wages by typical entry-level educational requirement. National employment and wage information for all occupations is shown in table 1.

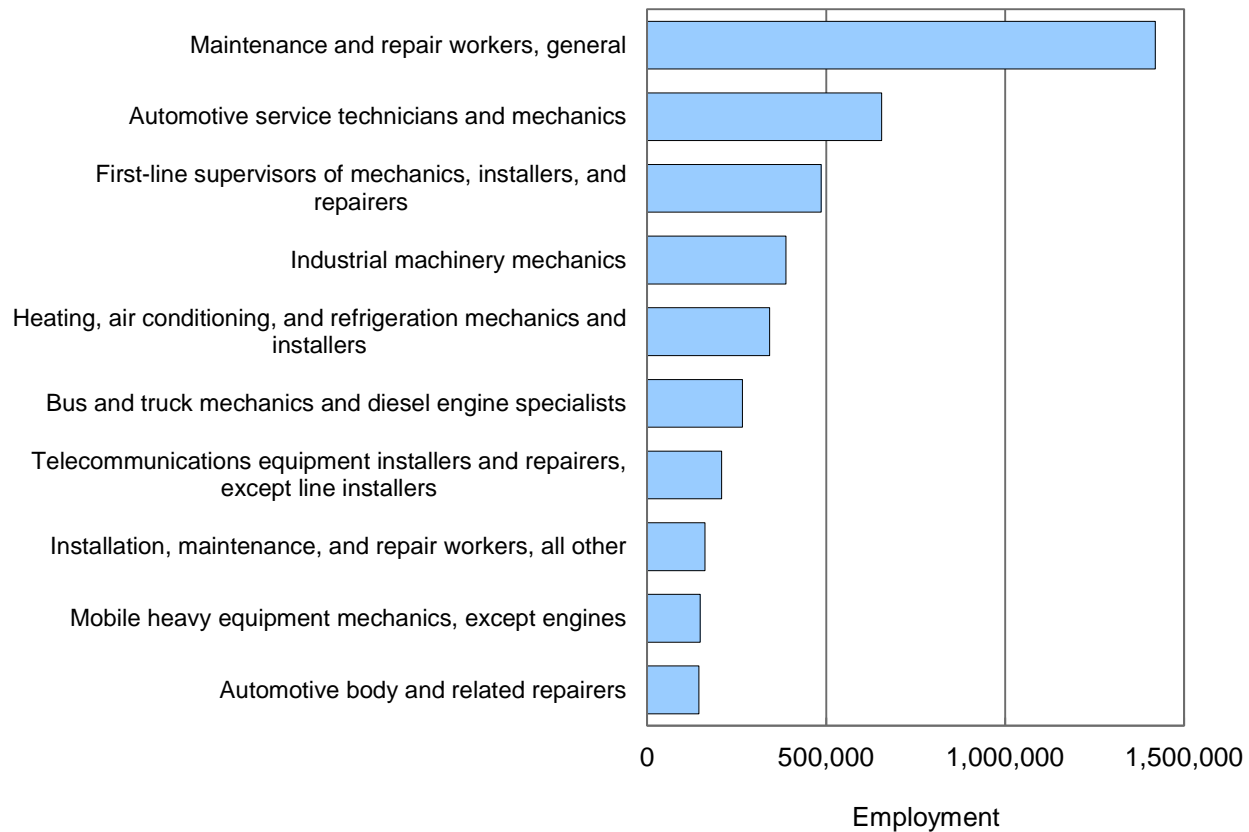
### Installation, maintenance, and repair occupations

- The **largest** installation, maintenance, and repair occupations were general maintenance and repair workers (1.4 million); automotive service technicians and mechanics (655,330); and first-line supervisors of mechanics, installers, and repairers (485,700). (See table 1 and chart 1.)
- The **highest paying** installation, maintenance, and repair occupations included powerhouse, substation, and relay electrical and electronics repairers (\$81,280), which typically require a

### Changes to the Occupational Employment Statistics (OES) Data

With the May 2019 estimates, the OES program has begun implementing the 2018 Standard Occupational Classification (SOC) system. See the box note at the end of this news release for more information on changes to the OES data.

**Chart 1. Employment for the largest installation, maintenance, and repair occupations, May 2019**



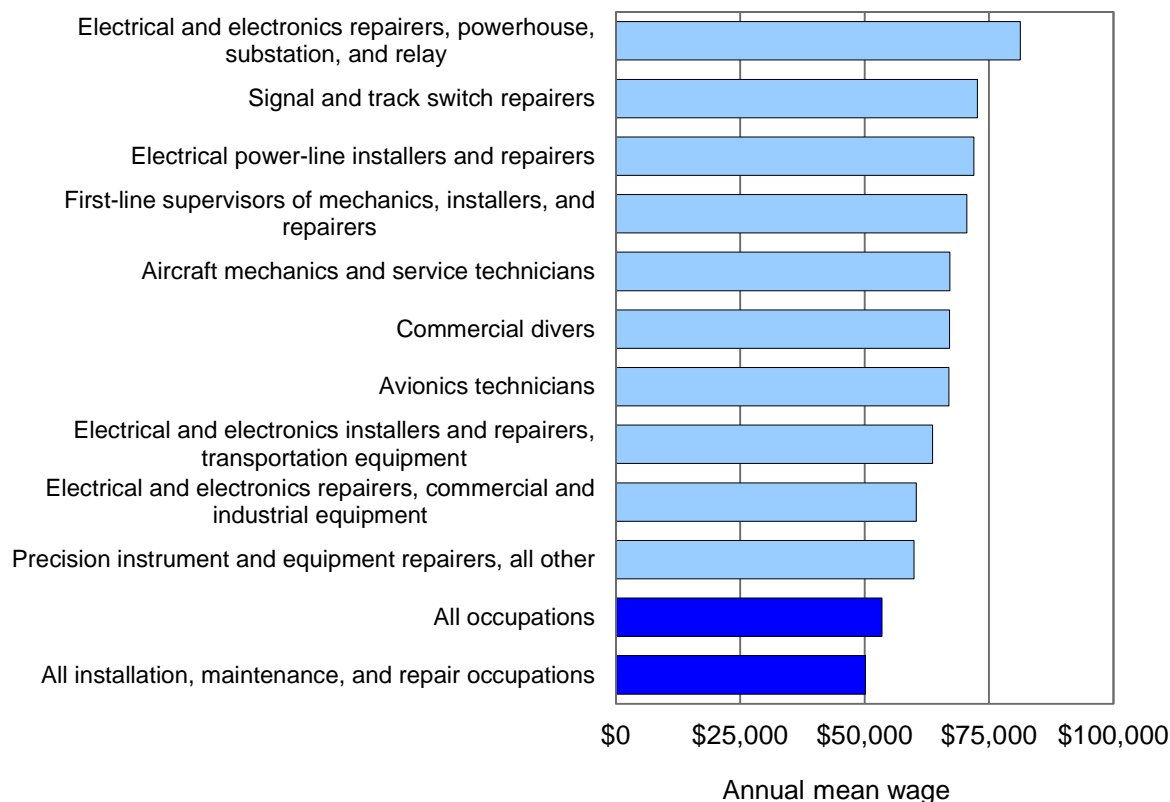
Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics.

postsecondary nondegree award, such as a certificate, for entry; and signal and track switch repairers (\$72,690) and electrical power-line installers and repairers (\$71,960), which typically require a high school diploma or equivalent. (See table 1 and chart 2.)

- The **lowest paying** installation, maintenance, and repair occupations were tire repairers and changers (\$30,350) and bicycle repairers (\$31,360). (See table 1.)
- **Industries** with the largest employment of installation, maintenance, and repair occupations were automotive repair and maintenance (454,220), building equipment contractors (437,470), and real estate (352,350).
- **States** with the highest employment shares of installation, maintenance, and repair occupations included Wyoming (6.6 percent of state employment), Alaska (5.7 percent), and North Dakota (5.3 percent).
- Alaska (\$61,260), the District of Columbia (\$60,630), and Connecticut (\$58,110) were among the states with the highest wages for installation, maintenance, and repair occupations.

State data are available at [www.bls.gov/oes/current/oessrcst.htm](http://www.bls.gov/oes/current/oessrcst.htm).

**Chart 2. Highest paying installation, maintenance, and repair occupations, May 2019**



Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics.

National industry-specific data are available at [www.bls.gov/oes/current/oessrci.htm](http://www.bls.gov/oes/current/oessrci.htm).

### Sales and related occupations

- Sales and related occupations had **employment** of 14.4 million, representing 9.8 percent of U.S. employment, and an **annual mean wage** of \$43,060. This was the second-largest occupational group, after office and administrative support occupations. (See table 1.)
- The **largest** sales and related occupations were retail salespersons (4.3 million); cashiers (3.6 million); and wholesale and manufacturing sales representatives, except technical and scientific products (1.3 million). (See table 1.)
- **Metropolitan areas** with the highest employment of wholesale and manufacturing sales representatives, except technical and scientific products were New York-Newark-Jersey City, N.Y.-N.J.-PA. (84,870); Los Angeles-Long Beach-Anaheim, CA. (63,550); and Chicago-Naperville-Elgin, IL.-IN.-WI. (57,050).
- The **highest paying** sales and related occupations were sales engineers (\$112,780); securities, commodities, and financial services sales agents (\$93,090); and wholesale and manufacturing

sales representatives of technical and scientific products (\$92,980). These occupations typically require a bachelor's degree for entry. (See table 1.)

- The **lowest paying** sales and related occupations were cashiers (\$24,370) and gambling change persons and booth cashiers (\$28,010). (See table 1.)
- **Wholesale and manufacturing sales representatives, except technical and scientific products** had an annual mean wage of \$71,110 nationally. (See table 1.) The highest paying states for this occupation included New Jersey (\$84,170), Massachusetts (\$82,220), and Colorado (\$81,670).

Metropolitan area data are available at [www.bls.gov/oes/current/oessrcma.htm](http://www.bls.gov/oes/current/oessrcma.htm).

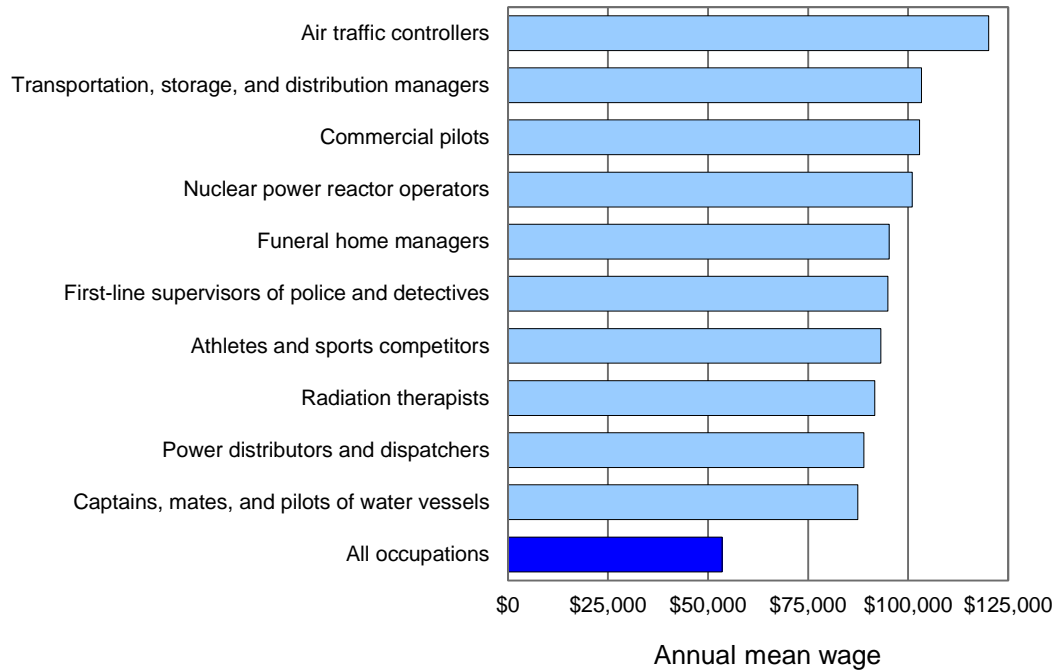
### Community and social service occupations

- Community and social service occupations had total **employment** of 2.2 million and an **annual mean wage** of \$50,480. (See table 1.)
- The **largest** community and social service occupations were social and human service assistants (404,450) and child, family, and school social workers (327,710). (See table 1.)
- The **highest paying** community and social service occupations included all other social workers (\$61,750); educational, guidance, and career counselors and advisors (\$61,000); and health education specialists (\$60,500). Educational, guidance, and career counselors and advisors typically require a master's degree for entry; health education specialists and all other social workers typically require a bachelor's degree. (See table 1.)
- The **lowest paying** occupation in this group was social and human service assistants (\$37,050). (See table 1.)
- **Child, family, and school social workers** had an annual mean wage of \$51,030 nationally. (See table 1.) The states with the highest wages for this occupation included New Jersey (\$68,830) and the District of Columbia (\$71,590). The lowest paying states for this occupation included Mississippi (\$37,190) and Oklahoma (\$37,610).

### Typical entry-level education

- Occupations typically requiring **postsecondary education** for entry made up 38 percent of employment. The largest postsecondary category, occupations typically requiring a **bachelor's degree** for entry, made up 22 percent of employment. This educational category includes registered nurses; teachers at the kindergarten through secondary levels; and many management, business and financial operations, computer, and engineering occupations.
- Occupations typically requiring a **high school diploma or the equivalent** for entry made up 38 percent of employment, and occupations typically requiring **no formal educational credential** for entry made up 24 percent of employment. These two educational categories include most

**Chart 3. Highest paying occupations that typically require less than a bachelor's degree for entry, May 2019**



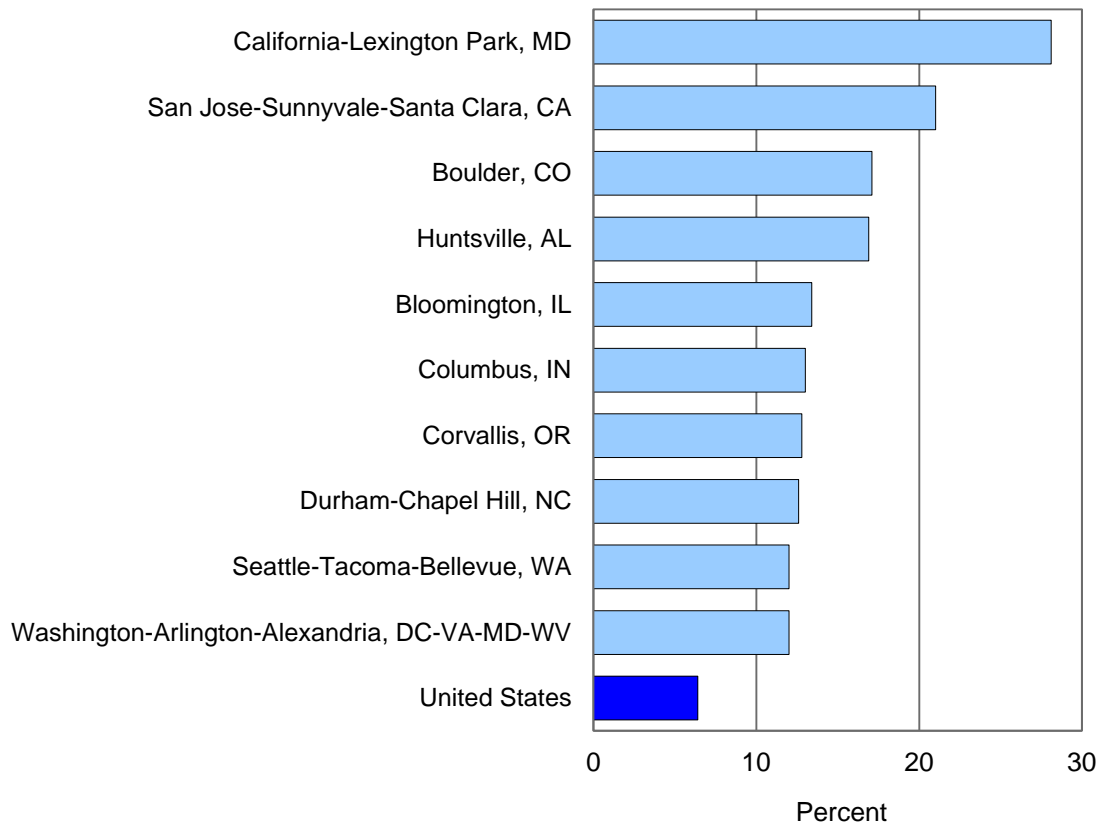
Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics and Employment Projections.

production and construction occupations, as well as large occupations such as retail salespersons, fast food and counter workers, and cashiers.

- **Average wages** were generally higher for occupations requiring more education. Annual mean wages were \$29,190 for occupations typically requiring no formal educational credential for entry, \$44,190 for occupations typically requiring a high school diploma or the equivalent, \$58,430 for occupations typically requiring an associate's degree, and \$88,260 for occupations typically requiring a bachelor's degree.
- The **highest paying** occupations typically requiring **less than a bachelor's degree** for entry included air traffic controllers (\$120,140), which typically require an associate's degree for entry, and transportation, storage, and distribution managers (\$103,320), which typically require a high school diploma or the equivalent. (See chart 3.)

The typical education level required to enter an occupation is based on education and training categories from the BLS Employment Projections program. More information about the system of education and training categories is available at [www.bls.gov/emp/documentation/education/tech.htm](http://www.bls.gov/emp/documentation/education/tech.htm). Typical entry-level educational requirements assigned to each occupation in the May 2019 OES estimates are available at [www.bls.gov/oes/educ\\_list\\_2019.xlsx](http://www.bls.gov/oes/educ_list_2019.xlsx). Additional charts are available at [www.bls.gov/oes/current/overview\\_2019.htm](http://www.bls.gov/oes/current/overview_2019.htm).

**Chart 4. Metropolitan areas with the highest employment shares of STEM occupations, May 2019**



Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics.

### Science, technology, engineering, and mathematics (STEM) occupations

- There were over 9.3 million STEM jobs representing 6.4 percent of total U.S. employment.
- Six of the 10 **largest** STEM occupations were related to computers and included software developers and software quality assurance analysts and testers (1.4 million) and computer user support specialists (647,330). (See table 1.)
- **Areas** with the highest employment shares of STEM occupations were California-Lexington Park, MD. (28.1 percent), and San Jose-Sunnyvale-Santa Clara, CA. (21.0 percent). (See chart 4.)
- STEM occupations had an **annual mean wage** of \$95,350, compared with \$50,600 for non-STEM occupations. Ninety-one of the 98 STEM occupations had mean wages significantly above the all-occupations average of \$53,490. (See table 1.)
- The **highest paying** STEM occupations were petroleum engineers (\$156,780) and the three STEM-related management occupations: computer and information systems managers

(\$156,390), architectural and engineering managers (\$152,930), and natural sciences managers (\$145,450). (See table 1.)

- The **lowest paying** STEM occupations were agricultural and food science technicians (\$44,440) and forest and conservation technicians (\$45,860). (See table 1.)

Occupations included in the STEM definition used for this news release are available at [www.bls.gov/oes/stem\\_list\\_2019.xlsx](http://www.bls.gov/oes/stem_list_2019.xlsx). Additional STEM charts are available at [www.bls.gov/oes/current/overview\\_2019.htm](http://www.bls.gov/oes/current/overview_2019.htm).

### **Largest occupations**

- The largest occupations overall were retail salespersons (4.3 million) and fast food and counter workers (4.0 million). (See table 1.)
- Eight of the 10 largest occupations had below-average wages. Retail salespersons (\$29,360) and fast food and counter workers (\$23,250) had annual mean wages significantly below the all-occupations average of \$53,490. (See table 1.)
- Of the 10 largest occupations, registered nurses (\$77,460) and general and operations managers (\$123,030) were the only occupations with above-average wages. (See table 1.)

### **Public sector occupations**

- The public sector made up 15 percent of employment and had a different occupational mix from the private sector.
- Many of the **largest** public sector occupations were related to education. These occupations included elementary school teachers, except special education (public sector employment of 1.3 million); teaching assistants, except postsecondary (1.1 million); secondary school teachers, except special and career/technical education (904,570); and middle school teachers, except special and career/technical education (553,620).
- Outside of the educational instruction and library group, the occupations with the highest public sector employment included police and sheriff's patrol officers (658,300); general office clerks (511,040); and secretaries and administrative assistants, except legal, medical, and executive (500,330).

## **Changes to the Occupational Employment Statistics (OES) Data**

With the May 2019 estimates, the OES program has begun implementing the 2018 Standard Occupational Classification (SOC) system. Each set of OES estimates is calculated from six panels of survey data collected over three years. Because the May 2019 estimates are based on a combination of survey data collected using the 2010 SOC and survey data collected using the 2018 SOC, these estimates use a hybrid of the two classification systems that contains some combinations of occupations that are not found in either the 2010 or 2018 SOC. These combinations may include occupations from more than one 2018 SOC minor group or broad occupation. Therefore, OES will not publish data for some 2018 SOC minor groups and broad occupations in the May 2019 estimates. The May 2021 estimates, to be published in Spring 2022, will be the first OES estimates based entirely on survey data collected using the 2018 SOC.

In addition, the OES program has replaced some 2018 SOC detailed occupations with SOC broad occupations or OES-specific aggregations. These include home health aides and personal care aides, for which OES will publish only the 2018 SOC broad occupation 31-1120 Home Health and Personal Care Aides.

For more information on the occupational classification system used in the May 2019 OES estimates, please see [www.bls.gov/oes/soc\\_2018.htm](http://www.bls.gov/oes/soc_2018.htm) and [www.bls.gov/oes/oes\\_ques.htm#qf10](http://www.bls.gov/oes/oes_ques.htm#qf10).

The May 2019 OES estimates use the metropolitan area definitions delineated in Office of Management and Budget (OMB) Bulletin 17-01, which add a new Metropolitan Statistical Area (MSA) for Twin Falls, Idaho. For more information on the area definitions used in the May 2019 estimates, please see [www.bls.gov/oes/current/msa\\_def.htm](http://www.bls.gov/oes/current/msa_def.htm).



# Technical Note

## Scope of the survey

The Occupational Employment Statistics (OES) survey is a semiannual survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OES data available from BLS include cross-industry occupational employment and wage estimates for the nation; over 580 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS sector, 3-digit, most 4-digit, and selected 5- and 6-digit industry levels; and national estimates by ownership across all industries and for schools and hospitals.

The OES survey is a cooperative effort between BLS and the State Workforce Agencies (SWAs). BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies collect most of the data. OES estimates are constructed from a sample of about 1.1 million establishments. Each year, two semiannual panels of approximately 180,000 to 200,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, Internet or other electronic means, email, telephone, or personal visit. The May 2019 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2019, November 2018, May 2018, November 2017, May 2017, and November 2016. The unweighted sampled employment of 83 million across all six semiannual panels represents approximately 57 percent of total national employment. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 71 percent based on establishments and 68 percent based on weighted sampled employment.

## The occupational coding system

The May 2019 OES estimates contain nearly 800 occupational categories based on the Office of Management and Budget's Standard Occupational Classification (SOC) system. Together, these occupations make up 22 of the 23 SOC major occupational groups. Major group 55, Military Specific Occupations, is not included.

For more information about the SOC system, please see the BLS website at [www.bls.gov/soc/](http://www.bls.gov/soc/).

The May 2019 OES estimates are the first set of OES estimates to be based in part on survey data collected using the 2018 SOC. These estimates use a hybrid of the 2010 and 2018 SOC systems. For more information on the hybrid classification system used in the May 2019 OES estimates, please see the "Changes to the May 2019 estimates" section of this technical note.

## The industry coding system

The May 2019 OES estimates use the 2017 North American Industry Classification System (NAICS). For more information about NAICS, see the BLS website at [www.bls.gov/bls/naics.htm](http://www.bls.gov/bls/naics.htm).

The OES survey excludes the majority of the agricultural

sector, with the exception of logging (NAICS 113310), support activities for crop production (NAICS 1151), and support activities for animal production (NAICS 1152). Private households (NAICS 814) also are excluded. OES federal government data include the U.S. Postal Service and the federal executive branch only. All other industries, including state and local government, are covered by the survey.

## Survey sample

The OES survey draws its sample from state unemployment insurance (UI) files. Supplemental sources are used for rail transportation (NAICS 4821) and Guam because they do not report to the UI program. The OES survey sample is stratified by metropolitan and nonmetropolitan area, industry, and size.

To provide the most occupational coverage, larger employers are more likely to be selected than smaller employers. A census is taken of the executive branch of the federal government, the U.S. Postal Service, and state government.

## Concepts

*Occupational employment* is the estimate of total wage and salary employment in an occupation. The OES survey defines employment as the number of workers who can be classified as full- or part-time employees, including workers on paid vacations or other types of paid leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey does not include the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers.

*Wages* for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate; cost-of-living allowances; guaranteed pay; hazardous-duty pay; incentive pay, including commissions and production bonuses; and tips are included. Excluded are overtime pay, severance pay, shift differentials, nonproduction bonuses, employer cost for supplementary benefits, and tuition reimbursements.

OES receives wage rate data for the federal government, the U.S. Postal Service, and most state governments. For the remaining establishments, the OES survey data are placed into 12 intervals. The intervals are defined both as hourly rates and the corresponding annual rates, where the annual rate for an occupation is calculated by multiplying the hourly wage rate by a typical work year of 2,080 hours. The responding establishments are instructed to report the hourly rate for part-time workers, and to report annual rates for occupations that are typically paid at an annual rate but do not work 2,080 hours per year, such as teachers, pilots, and flight attendants. Other workers, such as some entertainment workers, are paid hourly rates, but generally do not work 40 hours per week, year round. For these workers, only an hourly wage is reported.

## Estimation methodology

The OES survey is designed to produce estimates by combining six panels of data collected over a 3-year period. Each OES panel contains approximately 180,000 to 200,000 establishments. Recent OES survey panels have a reduced sample; see the “Changes to the May 2019 estimates” section below for more information. The full six-panel sample of 1.1 million establishments allows the production of estimates at detailed levels of geography, industry, and occupation.

*Wage updating.* Significant reductions in sampling errors are obtained by combining six panels of data, particularly for small geographic areas and occupations. Wages for the current panel need no adjustment. However, wages in the five previous panels need to be updated to the current panel’s reference period.

The OES program uses the BLS Employment Cost Index (ECI) to adjust survey data from prior panels before combining them with the current panel’s data. The wage updating procedure adjusts each detailed occupation’s wage rate, as measured in the earlier panel, according to the average movement of its broader occupational division.

*Imputation.* Some establishments do not respond for a given panel. For most employers, a “nearest neighbor” hot deck imputation procedure is used to impute missing occupational employment totals. A variant of mean imputation is used to impute missing wage distributions. In some cases, data for nonrespondents are available from earlier panels. In those cases, the older data may be used and aged to represent the current reference period.

*Weighting and benchmarking.* The sampled establishments are weighted to represent all establishments for the reference period. Weights are further adjusted by the ratio of employment totals (the average of November 2018 and May 2019 employment) from the BLS Quarterly Census of Employment and Wages to employment totals from the OES survey.

## Changes to the May 2019 estimates

With the May 2019 estimates, the OES program has begun implementing the 2018 Standard Occupational Classification

(SOC) system. Each set of OES estimates is calculated from six panels of survey data collected over three years. Because the May 2019 estimates are based on a combination of survey data collected using the 2010 SOC and survey data collected using the 2018 SOC, these estimates use a hybrid of the two classification systems that contains some combinations of occupations that are not found in either the 2010 or 2018 SOC. These combinations may include occupations from more than one 2018 SOC minor group or broad occupation. Therefore, OES will not publish data for some 2018 SOC minor groups and broad occupations in the May 2019 estimates. The May 2021 estimates, to be published in Spring 2022, will be the first OES estimates based entirely on survey data collected using the 2018 SOC.

In addition, the OES program has replaced some 2018 SOC detailed occupations with SOC broad occupations or OES-specific aggregations. These include home health aides and personal care aides, for which OES will publish only the 2018 SOC broad occupation 31-1120 Home Health and Personal Care Aides.

More information on the occupational classification system used in the May 2019 OES estimates is available at [www.bls.gov/oes/soc\\_2018.htm](http://www.bls.gov/oes/soc_2018.htm) and in the OES frequently asked questions at [www.bls.gov/oes/oes\\_ques.htm#qf10](http://www.bls.gov/oes/oes_ques.htm#qf10).

The May 2019 OES estimates use the metropolitan area definitions delineated in Office of Management and Budget (OMB) Bulletin 17-01, which add a new Metropolitan Statistical Area (MSA) for Twin Falls, Idaho. For more information on the area definitions used in the May 2019 estimates, please see [www.bls.gov/oes/current/msa\\_def.htm](http://www.bls.gov/oes/current/msa_def.htm).

The OES sample has been reduced in recent survey panels. The May 2019 OES survey panel had a sample of approximately 183,000 establishments. The November 2017, May 2018, and November 2018 survey panels each had a sample of approximately 186,000 establishments. The May 2017 panel sample consisted of approximately 195,000 establishments, and the November 2016 panel sample consisted of approximately 202,000 establishments.

## For more information

Answers to frequently asked questions about the OES data are available at [www.bls.gov/oes/oes\\_ques.htm](http://www.bls.gov/oes/oes_ques.htm).

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>All occupations</b>	<b>146,875,480</b>	<b>\$25.72</b>	<b>\$53,490</b>	<b>\$19.14</b>
<b>Management occupations</b>	<b>8,054,120</b>	<b>58.88</b>	<b>122,480</b>	<b>50.80</b>
Top executives.....	2,658,440	61.09	127,070	49.63
Chief executives.....	205,890	93.20	193,850	88.68
General and operations managers.....	2,400,280	59.15	123,030	48.45
Legislators.....	52,280	(?)	49,440	(?)
Advertising, marketing, promotions, public relations, and sales managers.....	770,540	68.91	143,330	61.96
Advertising and promotions managers.....	25,100	68.22	141,890	60.34
Marketing and sales managers.....	666,280	69.55	144,660	62.84
Marketing managers.....	263,680	71.73	149,200	65.79
Sales managers.....	402,600	68.12	141,690	60.89
Public relations and fundraising managers.....	79,160	63.77	132,630	55.86
Operations specialties managers.....	1,996,160	64.69	134,550	58.15
Administrative services and facilities managers.....	307,280	51.23	106,550	46.61
Computer and information systems managers.....	433,960	75.19	156,390	70.37
Financial managers.....	654,790	70.93	147,530	62.45
Industrial production managers.....	185,790	55.34	115,110	50.71
Purchasing managers.....	72,100	61.73	128,400	58.23
Transportation, storage, and distribution managers.....	132,040	49.67	103,320	45.46
Compensation and benefits managers.....	16,900	64.52	134,210	58.78
Human resources managers.....	154,800	62.29	129,570	56.11
Training and development managers.....	38,510	59.36	123,470	54.50
Other management occupations.....	2,628,970	49.31	102,560	43.90
Farmers, ranchers, and other agricultural managers.....	5,060	38.63	80,360	34.21
Construction managers.....	293,380	50.48	105,000	45.80
Education and childcare administrators.....	512,820	47.25	98,270	43.81
Education and childcare administrators, preschool and daycare.....	52,360	25.81	53,690	23.18
Education administrators, kindergarten through secondary.....	271,020	(?)	100,340	(?)
Education administrators, postsecondary.....	144,880	54.04	112,400	45.87
Education administrators, all other.....	44,550	44.30	92,150	41.08
Architectural and engineering managers.....	194,250	73.52	152,930	69.63
Food service managers.....	235,470	28.76	59,820	26.60
Gambling managers.....	4,450	40.72	84,700	36.04
Lodging managers.....	38,340	30.56	63,570	26.17
Medical and health services managers.....	394,910	55.37	115,160	48.55
Natural sciences managers.....	67,720	69.93	145,450	62.07
Postmasters and mail superintendents.....	13,850	37.60	78,220	36.97
Property, real estate, and community association managers.....	220,750	34.48	71,720	28.25
Social and community service managers.....	156,460	35.05	72,900	32.28
Emergency management directors.....	10,060	39.68	82,530	35.86
Funeral home managers.....	9,400	45.78	95,220	36.71
Personal service managers, all other; entertainment and recreation managers, except gambling; and managers, all other.....	472,060	57.07	118,710	53.19
<b>Business and financial operations occupations</b>	<b>8,183,750</b>	<b>37.56</b>	<b>78,130</b>	<b>33.57</b>
Business operations specialists.....	5,427,140	36.31	75,530	33.04
Agents and business managers of artists, performers, and athletes.....	17,060	46.72	97,170	35.45
Buyers and purchasing agents.....	421,280	33.50	69,680	30.95
Claims adjusters, appraisers, examiners, and investigators.....	301,710	33.09	68,820	31.99
Claims adjusters, examiners, and investigators.....	287,960	33.15	68,940	32.11
Insurance appraisers, auto damage.....	13,750	31.85	66,240	30.42
Compliance officers.....	317,600	35.03	72,850	33.20
Cost estimators.....	210,000	34.31	71,350	31.37
Human resources workers.....	708,780	32.79	68,200	30.02
Human resources specialists.....	633,040	32.58	67,760	29.77
Farm labor contractors.....	160	29.84	62,060	29.77
Labor relations specialists.....	75,580	34.55	71,870	33.18
Logisticians.....	182,050	37.83	78,680	35.94
Management analysts.....	709,750	45.94	95,560	40.99
Meeting, convention, and event planners.....	117,610	26.39	54,880	24.33
Fundraisers.....	81,660	30.21	62,830	27.87
Compensation, benefits, and job analysis specialists.....	89,300	33.58	69,840	31.04
Training and development specialists.....	312,450	31.56	65,640	29.43
Market research analysts and marketing specialists.....	678,500	34.41	71,570	30.67
Project management specialists and business operations specialists, all other.....	1,279,390	38.57	80,220	35.37
Financial specialists.....	2,756,610	40.03	83,260	34.59
Accountants and auditors.....	1,280,700	38.23	79,520	34.40
Property appraisers and assessors.....	56,320	30.58	63,610	27.41
Budget analysts.....	51,460	38.61	80,300	36.80
Credit analysts.....	73,930	40.83	84,930	35.41
Personal financial advisors.....	210,190	57.35	119,290	42.24
Insurance underwriters.....	100,050	37.33	77,640	33.67
Financial examiners.....	64,550	44.39	92,330	38.99
Credit counselors and loan officers.....	340,480	35.46	73,750	29.37
Credit counselors.....	32,110	24.15	50,230	22.09
Loan officers.....	308,370	36.64	76,200	30.42
Tax examiners, collectors and preparers, and revenue agents.....	120,430	26.27	54,640	23.84
Tax examiners and collectors, and revenue agents.....	53,760	29.31	60,960	26.39

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Business and financial operations occupations (Continued)</b>				
Tax preparers.....	66,670	\$23.82	\$49,550	\$20.71
Financial and investment analysts, financial risk specialists, and financial specialists, all other.....	458,510	45.27	94,160	39.22
<b>Computer and mathematical occupations</b>				
<b>Computer occupations.....</b>	<b>4,552,880</b>	<b>45.08</b>	<b>93,760</b>	<b>42.47</b>
Computer occupations.....	4,358,410	45.01	93,620	42.43
Computer and information analysts.....	714,640	46.91	97,570	44.40
Computer systems analysts.....	589,060	46.23	96,160	43.71
Information security analysts.....	125,570	50.10	104,210	47.95
Computer and information research scientists.....	30,780	61.28	127,460	59.06
Computer support specialists.....	832,750	28.51	59,290	26.33
Computer network support specialists.....	185,430	33.10	68,860	30.51
Computer user support specialists.....	647,330	27.19	56,550	25.13
Database and network administrators and architects.....	632,330	46.33	96,380	43.94
Computer network architects.....	152,420	55.34	115,110	54.18
Network and computer systems administrators.....	354,450	42.51	88,410	40.15
Database administrators and architects.....	125,460	46.21	96,110	45.07
Software and web developers, programmers, and testers.....	1,754,750	51.44	106,980	49.20
Computer programmers.....	199,540	44.53	92,610	41.61
Software developers and software quality assurance analysts and testers.....	1,406,870	53.66	111,620	51.69
Web developers and digital interface designers.....	148,340	39.60	82,370	35.46
Computer occupations, all other.....	393,160	44.43	92,410	42.57
Mathematical science occupations.....	194,460	46.59	96,900	43.47
Actuaries.....	22,260	58.16	120,970	52.09
Mathematicians.....	2,630	51.57	107,280	50.50
Operations research analysts.....	99,680	43.56	90,600	40.78
Statisticians.....	39,090	46.00	95,680	43.83
Data scientists and mathematical science occupations, all other.....	30,810	48.35	100,560	45.33
<b>Architecture and engineering occupations</b>				
<b>Architects, surveyors, and cartographers.....</b>	<b>2,592,680</b>	<b>42.69</b>	<b>88,800</b>	<b>39.15</b>
Architects, surveyors, and cartographers.....	182,650	39.06	81,250	35.83
Architects, except naval.....	126,130	41.85	87,060	37.93
Architects, except landscape and naval.....	105,850	43.06	89,560	38.82
Landscape architects.....	20,280	35.56	73,970	33.35
Surveyors, cartographers, and photogrammetrists.....	56,520	32.84	68,300	30.71
Cartographers and photogrammetrists.....	11,300	33.55	69,790	31.47
Surveyors.....	45,220	32.66	67,920	30.49
<b>Engineers.....</b>	<b>1,730,720</b>	<b>48.45</b>	<b>100,770</b>	<b>45.43</b>
Aerospace engineers.....	63,200	57.32	119,220	56.01
Agricultural engineers.....	1,550	47.26	98,290	38.81
Bioengineers and biomedical engineers.....	19,780	46.68	97,090	43.95
Chemical engineers.....	30,120	56.29	117,090	52.30
Civil engineers.....	310,850	45.36	94,360	41.86
Computer hardware engineers.....	67,880	59.15	123,030	56.36
Electrical and electronics engineers.....	314,360	51.08	106,240	48.68
Electrical engineers.....	185,570	49.75	103,480	47.37
Electronics engineers, except computer.....	128,800	52.99	110,210	50.76
Environmental engineers.....	53,150	45.30	94,220	42.72
Industrial engineers, including health and safety.....	317,560	44.63	92,830	42.42
Health and safety engineers, except mining safety engineers and inspectors.....	25,860	45.58	94,810	43.95
Industrial engineers.....	291,710	44.55	92,660	42.32
Marine engineers and naval architects.....	11,360	47.47	98,730	44.42
Materials engineers.....	26,820	47.06	97,890	44.88
Mechanical engineers.....	306,990	44.97	93,540	42.51
Mining and geological engineers, including mining safety engineers.....	6,280	46.63	96,990	43.83
Nuclear engineers.....	15,850	58.03	120,700	54.55
Petroleum engineers.....	32,620	75.37	156,780	66.21
Engineers, all other.....	152,340	49.26	102,460	47.62
<b>Drafters, engineering technicians, and mapping technicians.....</b>	<b>679,310</b>	<b>29.00</b>	<b>60,320</b>	<b>27.73</b>
Drafters.....	192,760	28.60	59,480	27.32
Architectural and civil drafters.....	98,800	27.92	58,080	27.09
Electrical and electronics drafters.....	24,140	31.60	65,720	29.58
Mechanical drafters.....	55,210	29.09	60,500	27.43
Drafters, all other.....	14,600	26.37	54,840	25.40
<b>Engineering technologists and technicians, except drafters.....</b>	<b>433,520</b>	<b>29.87</b>	<b>62,130</b>	<b>28.66</b>
Aerospace engineering and operations technologists and technicians.....	11,540	32.86	68,340	31.74
Civil engineering technologists and technicians.....	68,870	26.67	55,480	25.68
Electrical and electronic engineering technologists and technicians.....	122,550	31.84	66,240	31.38
Electro-mechanical and mechatronics technologists and technicians.....	14,290	29.53	61,420	28.05
Environmental engineering technologists and technicians.....	18,010	26.32	54,740	24.34
Industrial engineering technologists and technicians.....	67,110	28.56	59,400	27.19
Mechanical engineering technologists and technicians.....	42,820	28.44	59,160	27.40
Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other.....	88,330	31.70	65,940	30.28
Surveying and mapping technicians.....	53,030	23.32	48,500	21.64
<b>Life, physical, and social science occupations</b>				
<b>Life scientists.....</b>	<b>1,288,920</b>	<b>37.28</b>	<b>77,540</b>	<b>32.77</b>
Life scientists.....	311,910	42.68	88,770	37.54
Agricultural and food scientists.....	30,300	34.88	72,550	31.33
Animal scientists.....	2,690	32.96	68,570	28.99

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Life, physical, and social science occupations (Continued)</b>				
Food scientists and technologists.....	13,460	\$36.63	\$76,190	\$33.16
Soil and plant scientists.....	14,150	33.58	69,860	30.39
Biological scientists.....	108,980	42.84	89,100	38.26
Biochemists and biophysicists.....	31,360	52.01	108,180	45.43
Microbiologists.....	18,270	39.79	82,760	36.37
Zoologists and wildlife biologists.....	19,250	32.31	67,200	30.42
Biological scientists, all other.....	40,100	42.11	87,590	39.53
Conservation scientists and foresters.....	31,580	31.68	65,900	30.01
Conservation scientists.....	22,070	32.23	67,040	30.12
Foresters.....	9,510	30.42	63,270	29.71
Medical scientists.....	134,600	46.95	97,650	41.97
Epidemiologists.....	7,410	37.64	78,290	34.13
Medical scientists, except epidemiologists.....	127,180	47.49	98,770	42.69
Life scientists, all other.....	6,450	41.29	85,890	36.49
Physical scientists.....	255,790	43.80	91,110	39.07
Astronomers and physicists.....	18,800	62.56	130,110	58.76
Astronomers.....	2,070	58.79	122,270	55.09
Physicists.....	16,730	63.02	131,080	59.06
Atmospheric and space scientists.....	9,290	46.71	97,160	45.86
Chemists and materials scientists.....	90,240	41.04	85,360	37.88
Chemists.....	83,530	40.46	84,150	37.32
Materials scientists.....	6,710	48.28	100,430	46.54
Environmental scientists and geoscientists.....	119,920	41.25	85,790	36.46
Environmental scientists and specialists, including health.....	84,290	37.47	77,940	34.31
Geoscientists, except hydrologists and geographers.....	29,200	52.09	108,350	44.25
Hydrologists.....	6,440	41.50	86,330	39.07
Physical scientists, all other.....	17,550	53.88	112,070	52.84
Social scientists and related workers.....	249,120	42.32	88,030	38.57
Economists.....	19,000	56.07	116,630	50.49
Survey researchers.....	9,930	31.61	65,760	28.45
Psychologists.....	128,130	42.68	88,770	38.64
Clinical, counseling, and school psychologists.....	113,270	42.04	87,450	37.59
Industrial-organizational psychologists.....	630	53.44	111,150	44.66
Psychologists, all other.....	14,220	47.23	98,230	48.94
Sociologists.....	2,630	43.55	90,590	40.10
Urban and regional planners.....	38,560	37.38	77,750	35.75
Miscellaneous social scientists and related workers.....	50,870	42.06	87,480	39.37
Anthropologists and archeologists.....	6,720	32.12	66,810	30.61
Geographers.....	1,400	39.41	81,970	39.20
Historians.....	3,040	33.02	68,690	30.62
Political scientists.....	6,010	57.82	120,260	58.76
Social scientists and related workers, all other.....	33,690	42.16	87,690	40.06
Life, physical, and social science technicians.....	358,740	25.17	52,340	23.19
Agricultural and food science technicians.....	21,870	21.37	44,440	19.82
Biological technicians.....	79,530	23.61	49,110	22.05
Chemical technicians.....	65,760	25.44	52,910	23.68
Environmental science and geoscience technicians.....	49,730	26.07	54,220	22.96
Environmental science and protection technicians, including health.....	32,620	24.41	50,760	22.38
Geological and hydrologic technicians.....	17,110	29.23	60,800	24.58
Nuclear technicians.....	6,420	39.77	82,710	39.46
Social science research assistants.....	35,580	24.68	51,340	22.84
Forest and conservation technicians.....	19,060	22.05	45,860	21.87
Miscellaneous life, physical, and social science technicians.....	80,780	26.74	55,610	25.04
Forensic science technicians.....	16,520	30.37	63,170	28.44
Life, physical, and social science technicians, all other.....	64,260	25.80	53,670	24.30
Occupational health and safety specialists and technicians.....	113,360	34.95	72,690	33.88
Occupational health and safety specialists and technicians.....	113,360	34.95	72,690	33.88
Occupational health and safety specialists.....	92,780	36.68	76,290	35.63
Occupational health and safety technicians.....	20,580	27.15	56,470	24.79
<b>Community and social service occupations</b>				
Counselors, social workers, and other community and social service specialists.....	2,159,870	24.23	50,410	22.15
Counselors.....	773,500	25.54	53,120	23.45
Educational, guidance, and career counselors and advisors.....	296,460	29.33	61,000	27.42
Marriage and family therapists.....	59,050	26.25	54,590	23.85
Rehabilitation counselors.....	109,040	19.31	40,160	17.28
Substance abuse, behavioral disorder, and mental health counselors.....	283,540	24.01	49,950	22.23
Counselors, all other.....	25,420	23.46	48,800	20.64
Social workers.....	678,780	26.05	54,190	24.26
Child, family, and school social workers.....	327,710	24.53	51,030	22.78
Healthcare social workers.....	174,890	28.51	59,300	27.29
Mental health and substance abuse social workers.....	117,770	24.84	51,670	22.43
Social workers, all other.....	58,410	29.69	61,750	29.44
Miscellaneous community and social service specialists.....	707,590	21.06	43,810	18.80
Health education specialists.....	58,590	29.09	60,500	26.55
Probation officers and correctional treatment specialists.....	88,120	28.80	59,910	26.10
Social and human service assistants.....	404,450	17.81	37,050	16.85
Community health workers.....	58,950	21.34	44,390	19.41
Community and social service specialists, all other.....	97,480	22.55	46,900	21.05

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Community and social service occupations (Continued)</b>				
Religious workers.....	84,440	\$25.12	\$52,260	\$22.54
Clergy.....	53,180	26.53	55,190	24.23
Directors, religious activities and education.....	21,820	24.28	50,490	21.09
Religious workers, all other.....	9,450	19.15	39,830	15.21
<b>Legal occupations</b>	<b>1,150,780</b>	<b>52.71</b>	<b>109,630</b>	<b>39.34</b>
Lawyers, judges, and related workers.....	722,940	67.87	141,180	57.68
Lawyers and judicial law clerks.....	673,800	68.84	143,200	58.02
Lawyers.....	657,170	69.86	145,300	59.11
Judicial law clerks.....	16,630	28.79	59,890	25.97
Judges, magistrates, and other judicial workers.....	49,140	54.55	113,470	53.40
Administrative law judges, adjudicators, and hearing officers.....	14,380	48.19	100,230	47.05
Arbitrators, mediators, and conciliators.....	6,090	35.44	73,720	30.74
Judges, magistrate judges, and magistrates.....	28,670	61.80	128,550	65.82
Legal support workers.....	427,840	27.08	56,320	24.96
Paralegals and legal assistants.....	329,870	26.45	55,020	24.87
Miscellaneous legal support workers.....	97,970	29.18	60,690	25.21
Title examiners, abstractors, and searchers.....	52,890	25.02	52,050	23.17
Legal support workers, all other.....	45,080	34.06	70,840	28.08
<b>Educational instruction and library occupations</b>	<b>8,886,600</b>	<b>27.75</b>	<b>57,710</b>	<b>24.42</b>
Postsecondary teachers.....	1,407,110	(?)	90,830	(?)
Business teachers, postsecondary.....	83,920	(?)	105,440	(?)
Math and computer science teachers, postsecondary.....	82,940	(?)	90,970	(?)
Computer science teachers, postsecondary.....	31,800	(?)	98,430	(?)
Mathematical science teachers, postsecondary.....	51,150	(?)	86,330	(?)
Engineering and architecture teachers, postsecondary.....	42,860	(?)	110,040	(?)
Architecture teachers, postsecondary.....	6,780	(?)	98,980	(?)
Engineering teachers, postsecondary.....	36,080	(?)	112,110	(?)
Life sciences teachers, postsecondary.....	64,330	(?)	97,110	(?)
Agricultural sciences teachers, postsecondary.....	9,470	(?)	89,320	(?)
Biological science teachers, postsecondary.....	53,090	(?)	98,700	(?)
Forestry and conservation science teachers, postsecondary.....	1,770	(?)	90,940	(?)
Physical sciences teachers, postsecondary.....	52,240	(?)	97,090	(?)
Atmospheric, earth, marine, and space sciences teachers, postsecondary.....	11,020	(?)	102,690	(?)
Chemistry teachers, postsecondary.....	21,380	(?)	92,650	(?)
Environmental science teachers, postsecondary.....	6,060	(?)	93,450	(?)
Physics teachers, postsecondary.....	13,780	(?)	101,110	(?)
Social sciences teachers, postsecondary.....	117,590	(?)	92,920	(?)
Anthropology and archeology teachers, postsecondary.....	5,850	(?)	95,140	(?)
Area, ethnic, and cultural studies teachers, postsecondary.....	10,600	(?)	88,410	(?)
Economics teachers, postsecondary.....	13,270	(?)	119,160	(?)
Geography teachers, postsecondary.....	3,970	(?)	86,540	(?)
Political science teachers, postsecondary.....	15,750	(?)	102,290	(?)
Psychology teachers, postsecondary.....	37,480	(?)	87,530	(?)
Sociology teachers, postsecondary.....	13,850	(?)	85,240	(?)
Social sciences teachers, postsecondary, all other.....	16,830	(?)	85,390	(?)
Health teachers, postsecondary.....	261,590	(?)	112,850	(?)
Health specialties teachers, postsecondary.....	201,920	(?)	121,620	(?)
Nursing instructors and teachers, postsecondary.....	59,680	(?)	83,160	(?)
Education and library science teachers, postsecondary.....	65,690	(?)	74,740	(?)
Education teachers, postsecondary.....	61,300	(?)	74,560	(?)
Library science teachers, postsecondary.....	4,390	(?)	77,170	(?)
Law, criminal justice, and social work teachers, postsecondary.....	43,890	(?)	95,510	(?)
Criminal justice and law enforcement teachers, postsecondary.....	14,070	(?)	72,980	(?)
Law teachers, postsecondary.....	16,180	(?)	129,950	(?)
Social work teachers, postsecondary.....	13,640	(?)	77,910	(?)
Arts, communications, history, and humanities teachers, postsecondary.....	260,500	(?)	82,360	(?)
Art, drama, and music teachers, postsecondary.....	94,060	(?)	83,220	(?)
Communications teachers, postsecondary.....	29,120	(?)	79,830	(?)
English language and literature teachers, postsecondary.....	67,930	(?)	80,180	(?)
Foreign language and literature teachers, postsecondary.....	24,860	(?)	80,170	(?)
History teachers, postsecondary.....	21,030	(?)	84,210	(?)
Philosophy and religion teachers, postsecondary.....	23,490	(?)	88,970	(?)
Miscellaneous postsecondary teachers.....	331,560	(?)	73,540	(?)
Family and consumer sciences teachers, postsecondary.....	2,150	(?)	85,270	(?)
Recreation and fitness studies teachers, postsecondary.....	15,880	(?)	73,720	(?)
Career/technical education teachers, postsecondary.....	112,210	29.05	60,420	26.26
Postsecondary teachers, all other.....	201,320	(?)	80,720	(?)
Preschool, elementary, middle, secondary, and special education teachers.....	4,211,470	(?)	61,420	(?)
Preschool and kindergarten teachers.....	555,650	19.41	40,370	16.65
Preschool teachers, except special education.....	431,350	16.66	34,650	14.67
Kindergarten teachers, except special education.....	124,290	(?)	60,210	(?)
Elementary and middle school teachers.....	2,064,680	(?)	63,820	(?)
Elementary school teachers, except special education.....	1,430,480	(?)	63,930	(?)
Middle school teachers, except special and career/technical education.....	622,330	(?)	63,550	(?)
Career/technical education teachers, middle school.....	11,860	(?)	64,900	(?)
Secondary school teachers.....	1,110,370	(?)	65,850	(?)
Secondary school teachers, except special and career/technical education.....	1,035,850	(?)	65,930	(?)
Career/technical education teachers, secondary school.....	74,520	(?)	64,800	(?)

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Educational instruction and library occupations (Continued)</b>				
Special education teachers.....	480,780	(?)	\$65,230	(?)
Special education teachers, preschool.....	22,340	(?)	67,060	(?)
Special education teachers, kindergarten and elementary school.....	193,830	(?)	64,420	(?)
Special education teachers, middle school.....	85,840	(?)	65,740	(?)
Special education teachers, secondary school.....	143,170	(?)	65,710	(?)
Special education teachers, all other.....	35,600	(?)	65,350	(?)
Other teachers and instructors.....	1,212,090	19.58	40,730	15.93
Adult basic education, adult secondary education, and English as a second language instructors.....	51,950	28.36	58,980	26.13
Self-enrichment teachers.....	252,780	22.17	46,120	18.84
Substitute teachers, short-term.....	587,120	15.61	32,460	13.84
Tutors and teachers and instructors, all other.....	320,250	(?)	48,700	(?)
Librarians, curators, and archivists.....	257,060	25.16	52,330	23.57
Archivists, curators, and museum technicians.....	32,640	26.11	54,320	23.97
Archivists.....	6,560	27.65	57,500	25.94
Curators.....	12,890	28.43	59,130	26.24
Museum technicians and conservators.....	13,190	23.09	48,030	21.36
Librarians and media collections specialists.....	135,690	29.77	61,920	28.61
Library technicians.....	88,720	17.76	36,950	16.78
Other educational instruction and library occupations.....	1,798,860	(?)	35,330	(?)
Farm and home management educators.....	8,720	25.34	52,720	23.90
Instructional coordinators.....	176,690	33.26	69,180	31.87
Teaching assistants.....	1,484,410	(?)	30,280	(?)
Teaching assistants, postsecondary.....	137,500	(?)	36,460	(?)
Teaching assistants, except postsecondary.....	1,346,910	(?)	29,640	(?)
Educational instruction and library workers, all other.....	129,040	22.10	45,970	19.38
<b>Arts, design, entertainment, sports, and media occupations</b>				
Art and design workers.....	2,017,810	29.79	61,960	24.59
Artists and related workers.....	633,420	27.54	57,290	23.14
Art directors.....	96,760	43.01	89,470	37.14
Craft artists.....	42,890	52.69	109,600	45.30
Craft artists.....	4,640	18.63	38,740	16.69
Fine artists, including painters, sculptors, and illustrators.....	12,350	30.30	63,030	24.30
Special effects artists and animators.....	29,340	40.76	84,780	36.19
Artists and related workers, all other.....	7,550	32.57	67,750	31.01
Designers.....	536,660	24.75	51,490	21.35
Commercial and industrial designers.....	32,770	35.49	73,820	33.12
Fashion designers.....	22,030	41.40	86,110	35.48
Floral designers.....	41,770	14.31	29,760	13.48
Graphic designers.....	215,930	27.17	56,510	25.05
Interior designers.....	60,650	29.32	60,990	26.94
Merchandise displayers and window trimmers.....	140,850	15.84	32,940	14.16
Set and exhibit designers.....	12,040	30.04	62,480	26.25
Designers, all other.....	10,610	35.34	73,510	31.07
Entertainers and performers, sports and related workers.....	536,540	30.10	62,600	21.76
Actors, producers, and directors.....	181,830	40.52	84,290	30.34
Actors.....	52,620	29.14	(?)	20.43
Producers and directors.....	129,210	45.16	93,940	35.78
Athletes, coaches, umpires, and related workers.....	272,840	(?)	46,460	(?)
Athletes and sports competitors.....	11,330	(?)	93,140	(?)
Coaches and scouts.....	241,390	(?)	44,910	(?)
Umpires, referees, and other sports officials.....	20,120	(?)	38,810	(?)
Dancers and choreographers.....	14,320	23.83	49,570	18.68
Dancers.....	9,690	22.91	(?)	17.49
Choreographers.....	4,630	25.77	53,590	22.27
Musicians, singers, and related workers.....	51,710	38.15	(?)	28.88
Music directors and composers.....	10,580	31.09	64,670	24.84
Musicians and singers.....	41,130	39.96	(?)	30.39
Miscellaneous entertainers and performers, sports and related workers.....	15,840	23.40	(?)	15.86
Media and communication workers.....	609,210	32.61	67,830	28.48
Broadcast announcers and radio disc jockeys.....	29,230	25.76	53,580	16.65
News analysts, reporters, and journalists.....	44,100	30.00	62,400	22.25
Public relations specialists.....	244,730	33.75	70,190	29.40
Writers and editors.....	192,580	35.42	73,680	31.31
Editors.....	95,970	34.57	71,910	29.50
Technical writers.....	50,760	36.95	76,860	35.03
Writers and authors.....	45,860	35.51	73,860	30.39
Miscellaneous media and communication workers.....	98,560	27.49	57,170	25.15
Interpreters and translators.....	58,870	27.40	57,000	24.92
Court reporters and simultaneous captioners.....	14,530	31.25	64,990	28.91
Media and communication workers, all other.....	25,160	25.51	53,060	22.88
Media and communication equipment workers.....	238,630	27.86	57,950	23.21
Audio and video technicians.....	73,960	24.65	51,260	22.07
Broadcast technicians.....	28,650	22.50	46,800	19.51
Sound engineering technicians.....	12,890	32.25	67,090	26.32
Photographers.....	50,620	21.85	45,440	17.44
Television, video, and film camera operators and editors.....	49,070	37.27	77,510	28.76
Camera operators, television, video, and film.....	21,500	31.23	64,960	26.52
Film and video editors.....	27,570	41.97	87,300	30.66
Lighting technicians and media and communication equipment workers, all other.....	23,440	35.43	73,700	35.32

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Healthcare practitioners and technical occupations</b>	<b>8,673,140</b>	<b>\$40.21</b>	<b>\$83,640</b>	<b>\$32.78</b>
Healthcare diagnosing or treating practitioners.....	5,685,500	49.26	102,470	39.61
Chiropractors.....	35,010	40.87	85,010	33.82
Dentists.....	127,200	88.01	183,060	76.54
Dentists, general.....	110,730	85.70	178,260	74.81
Oral and maxillofacial surgeons.....	4,650	114.21	237,570	( <sup>3</sup> )
Orthodontists.....	5,990	110.98	230,830	( <sup>3</sup> )
Prosthodontists.....	490	106.17	220,840	( <sup>3</sup> )
Dentists, all other specialists.....	5,330	85.59	178,040	70.78
Dietitians and nutritionists.....	67,670	29.97	62,330	29.46
Optometrists.....	39,420	59.12	122,980	55.41
Pharmacists.....	311,200	60.34	125,510	61.58
Physician assistants.....	120,090	54.04	112,410	53.97
Podiatrists.....	9,770	68.60	142,680	60.69
Therapists.....	709,730	38.87	80,850	37.88
Occupational therapists.....	133,570	41.45	86,210	40.84
Physical therapists.....	233,350	43.35	90,170	43.00
Radiation therapists.....	17,860	44.05	91,620	41.14
Recreational therapists.....	19,070	24.58	51,130	23.18
Respiratory therapists.....	132,090	30.75	63,950	29.48
Speech-language pathologists.....	154,360	39.43	82,000	38.04
Exercise physiologists.....	7,280	26.32	54,750	23.64
Therapists, all other.....	12,170	28.17	58,600	25.31
Veterinarians.....	74,540	50.39	104,820	45.90
Registered nurses.....	2,982,280	37.24	77,460	35.24
Nurse anesthetists.....	43,570	87.04	181,040	84.03
Nurse midwives.....	6,930	52.31	108,810	50.50
Nurse practitioners.....	200,600	53.77	111,840	52.80
Audiologists.....	13,590	40.34	83,900	37.31
Anesthesiologists.....	31,010	125.83	261,730	( <sup>3</sup> )
Family medicine physicians.....	109,370	102.53	213,270	98.84
General internal medicine physicians.....	44,610	96.85	201,440	96.92
Obstetricians and gynecologists.....	18,620	112.31	233,610	( <sup>3</sup> )
Pediatricians, general.....	29,740	88.66	184,410	84.28
Psychiatrists.....	25,530	105.98	220,430	( <sup>3</sup> )
Physicians, all other; and ophthalmologists, except pediatric.....	390,680	97.81	203,450	99.28
Surgeons, except ophthalmologists.....	36,270	121.17	252,040	( <sup>3</sup> )
Miscellaneous healthcare diagnosing or treating practitioners.....	258,060	37.93	78,900	36.63
Dental hygienists.....	221,560	37.13	77,230	36.65
Acupuncturists and healthcare diagnosing or treating practitioners, all other.....	36,500	42.82	89,060	36.37
Health technologists and technicians.....	2,902,300	22.86	47,540	21.34
Clinical laboratory technologists and technicians.....	326,020	26.34	54,780	25.54
Cardiovascular technologists and technicians.....	56,110	28.66	59,600	27.75
Diagnostic medical sonographers.....	72,790	36.44	75,780	35.73
Nuclear medicine technologists.....	18,110	38.58	80,240	37.48
Radiologic technologists and technicians.....	207,360	30.34	63,120	29.09
Magnetic resonance imaging technologists.....	37,900	35.70	74,270	35.30
Emergency medical technicians and paramedics.....	260,600	18.67	38,830	17.02
Health practitioner support technologists and technicians.....	803,740	18.17	37,800	17.12
Dietetic technicians.....	29,230	14.99	31,180	13.66
Pharmacy technicians.....	417,780	16.95	35,250	16.32
Psychiatric technicians.....	78,470	18.05	37,550	16.24
Surgical technologists.....	109,000	24.09	50,110	23.22
Veterinary technologists and technicians.....	110,650	17.63	36,670	16.98
Ophthalmic medical technicians.....	58,600	18.64	38,760	17.76
Licensed practical and licensed vocational nurses.....	697,510	23.32	48,500	22.83
Opticians, dispensing.....	72,330	19.58	40,730	18.19
Orthotists and prosthetists.....	9,830	35.01	72,810	32.89
Hearing aid specialists.....	8,210	26.62	55,360	25.68
Medical dosimetrists, medical records specialists, and health technologists and technicians, all other.....	331,790	22.40	46,590	20.50
Other healthcare practitioners and technical occupations.....	85,340	27.22	56,620	23.93
Athletic trainers.....	28,600	( <sup>2</sup> )	50,540	( <sup>2</sup> )
Genetic counselors.....	2,390	40.54	84,310	39.36
Health information technologists, medical registrars, surgical assistants, and healthcare practitioners and technical workers, all other.....	54,350	28.17	58,600	23.97
<b>Healthcare support occupations</b>	<b>6,521,790</b>	<b>14.91</b>	<b>31,010</b>	<b>13.69</b>
Home health and personal care aides; and nursing assistants, orderlies, and psychiatric aides.....	4,683,430	13.39	27,860	12.68
Home health and personal care aides.....	3,161,500	12.71	26,440	12.15
Nursing assistants, orderlies, and psychiatric aides.....	1,521,930	14.80	30,790	14.27
Nursing assistants.....	1,419,920	14.77	30,720	14.26
Orderlies.....	46,990	14.76	30,710	13.93
Psychiatric aides.....	55,020	15.67	32,590	14.96
Occupational therapy and physical therapist assistants and aides.....	198,660	24.56	51,080	25.44
Occupational therapy assistants and aides.....	52,550	27.84	57,910	28.46
Occupational therapy assistants.....	44,990	29.75	61,880	29.57
Occupational therapy aides.....	7,560	16.50	34,310	14.05
Physical therapist assistants and aides.....	146,110	23.38	48,630	23.55
Physical therapist assistants.....	96,840	28.14	58,520	28.26
Physical therapist aides.....	49,270	14.03	29,180	12.98
Other healthcare support occupations.....	1,639,700	18.07	37,580	17.24
Massage therapists.....	107,240	22.68	47,180	20.59

See footnotes at end of table.



**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Healthcare support occupations (Continued)</b>				
Miscellaneous healthcare support occupations.....	1,532,460	\$17.74	\$36,910	\$17.13
Dental assistants.....	351,470	19.79	41,170	19.27
Medical assistants.....	712,430	17.17	35,720	16.73
Medical equipment preparers.....	56,900	19.01	39,530	18.00
Medical transcriptionists.....	55,780	16.93	35,210	16.05
Pharmacy aides.....	37,280	14.66	30,490	13.39
Veterinary assistants and laboratory animal caretakers.....	97,030	14.28	29,690	13.75
Phlebotomists.....	128,290	17.54	36,480	17.07
Healthcare support workers, all other.....	93,270	19.24	40,010	18.49
<b>Protective service occupations</b>				
Supervisors of protective service workers.....	<b>3,498,800</b>	<b>23.98</b>	<b>49,880</b>	<b>19.99</b>
First-line supervisors of law enforcement workers.....	319,960	37.31	77,600	34.35
First-line supervisors of correctional officers.....	167,780	42.20	87,770	39.90
First-line supervisors of police and detectives.....	46,430	33.18	69,000	30.64
First-line supervisors of firefighting and prevention workers.....	121,340	45.65	94,950	43.79
Miscellaneous first-line supervisors, protective service workers.....	69,590	39.43	82,010	37.40
Firefighting and prevention workers.....	82,590	25.58	53,210	24.27
Firefighters.....	340,490	26.46	55,040	24.68
Fire inspectors.....	324,620	26.27	54,650	24.45
Fire inspectors and investigators.....	15,870	30.38	63,180	28.96
Forest fire inspectors and prevention specialists.....	13,710	31.12	64,730	29.65
Law enforcement workers.....	2,160	25.65	53,350	21.77
Bailiffs, correctional officers, and jailers.....	1,232,740	30.17	62,740	27.42
Bailiffs.....	442,700	24.14	50,210	21.78
Correctional officers and jailers.....	19,650	24.92	51,840	22.99
Detectives and criminal investigators.....	423,050	24.10	50,130	21.72
Fish and game wardens.....	105,620	41.36	86,030	39.99
Parking enforcement workers.....	6,800	27.73	57,690	27.64
Police officers.....	7,650	20.88	43,420	19.67
Police and sheriff's patrol officers.....	669,970	32.51	67,620	30.41
Transit and railroad police.....	665,280	32.50	67,600	30.36
Other protective service workers.....	4,690	34.19	71,120	34.53
Animal control workers.....	1,605,610	16.05	33,380	14.31
Private detectives and investigators.....	11,980	19.09	39,710	18.07
Security guards and gambling surveillance officers.....	35,000	27.40	57,000	24.28
Gambling surveillance officers and gambling investigators.....	1,136,650	15.90	33,080	14.29
Security guards.....	10,280	18.28	38,030	16.44
Miscellaneous protective service workers.....	1,126,370	15.88	33,030	14.27
Crossing guards and flaggers.....	421,980	15.42	32,070	13.78
Lifeguards, ski patrol, and other recreational protective service workers.....	84,920	15.83	32,920	14.31
Transportation security screeners.....	143,940	12.20	25,380	11.26
School bus monitors and protective service workers, all other.....	46,730	20.34	42,310	20.08
	146,390	16.77	34,880	14.90
<b>Food preparation and serving related occupations</b>				
Supervisors of food preparation and serving workers.....	<b>13,494,590</b>	<b>12.82</b>	<b>26,670</b>	<b>11.65</b>
Supervisors of food preparation and serving workers.....	1,139,290	18.82	39,140	16.74
Chefs and head cooks.....	1,139,290	18.82	39,140	16.74
First-line supervisors of food preparation and serving workers.....	128,190	27.07	56,310	24.78
Cooks and food preparation workers.....	1,011,100	17.77	36,960	16.06
Cooks.....	3,367,740	13.03	27,100	12.45
Cooks, fast food.....	2,504,000	13.24	27,550	12.67
Cooks, institution and cafeteria.....	527,220	11.31	23,530	11.30
Cooks, private household.....	402,480	13.96	29,030	13.34
Cooks, restaurant.....	390	21.92	45,600	18.21
Cooks, short order.....	1,401,890	13.80	28,700	13.36
Cooks, all other.....	152,670	12.62	26,240	12.09
Food preparation workers.....	19,340	15.50	32,240	14.79
Food and beverage serving workers.....	863,740	12.41	25,820	11.92
Bartenders.....	7,500,280	12.01	24,990	11.02
Fast food and counter workers.....	646,850	13.46	28,000	11.39
Waiters and waitresses.....	3,996,820	11.18	23,250	10.93
Food servers, nonrestaurant.....	2,579,020	12.88	26,800	11.00
Other food preparation and serving related workers.....	277,580	12.54	26,080	11.74
Dining room and cafeteria attendants and bartender helpers.....	1,487,290	11.82	24,590	11.37
Dishwashers.....	477,270	12.03	25,020	11.28
Hosts and hostesses, restaurant, lounge, and coffee shop.....	514,330	11.74	24,410	11.53
Food preparation and serving related workers, all other.....	423,380	11.54	24,010	11.10
	72,300	12.74	26,510	12.01
<b>Building and grounds cleaning and maintenance occupations</b>				
Supervisors of building and grounds cleaning and maintenance workers.....	<b>4,429,100</b>	<b>15.03</b>	<b>31,250</b>	<b>13.62</b>
First-line supervisors of building and grounds cleaning and maintenance workers.....	259,140	22.80	47,430	21.39
First-line supervisors of housekeeping and janitorial workers.....	259,140	22.80	47,430	21.39
First-line supervisors of landscaping, lawn service, and groundskeeping workers.....	155,550	21.23	44,160	19.61
Building cleaning and pest control workers.....	103,580	25.16	52,340	23.73
Building cleaning workers.....	3,170,010	14.11	29,350	12.78
Janitors and cleaners, except maids and housekeeping cleaners.....	3,090,570	13.98	29,080	12.68
Maids and housekeeping cleaners.....	2,145,450	14.43	30,010	13.19
Building cleaning workers, all other.....	926,960	12.89	26,810	11.95
Pest control workers.....	18,150	16.96	35,270	15.01
	79,450	19.19	39,910	17.95

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Building and grounds cleaning and maintenance occupations (Continued)</b>				
Grounds maintenance workers.....	999,960	\$15.91	\$33,100	\$14.85
Grounds maintenance workers.....	999,960	15.91	33,100	14.85
Landscaping and groundskeeping workers.....	912,660	15.56	32,360	14.63
Pesticide handlers, sprayers, and applicators, vegetation.....	25,780	18.86	39,230	17.23
Tree trimmers and pruners.....	47,210	20.44	42,510	19.22
Grounds maintenance workers, all other.....	14,310	18.21	37,870	15.43
<b>Personal care and service occupations</b>	<b>3,303,200</b>	<b>15.03</b>	<b>31,260</b>	<b>12.61</b>
Supervisors of personal care and service workers.....	247,100	21.35	44,400	19.68
First-line supervisors of gambling services workers.....	29,420	24.93	51,850	24.38
First-line supervisors of personal service and entertainment and recreation workers, except gambling services.....	217,680	20.86	43,400	19.14
Animal care and service workers.....	228,980	13.33	27,720	12.02
Animal trainers.....	16,530	17.43	36,240	14.63
Animal caretakers.....	212,450	13.01	27,060	11.91
Entertainment attendants and related workers.....	628,090	12.05	25,060	11.18
Gambling services workers.....	119,330	12.02	25,010	10.45
Gambling dealers.....	98,890	11.53	23,980	10.22
Gambling and sports book writers and runners.....	9,970	13.38	27,830	11.90
Gambling service workers, all other.....	10,470	15.38	32,000	13.61
Motion picture projectionists.....	4,540	14.37	29,890	12.09
Ushers, lobby attendants, and ticket takers.....	138,160	11.96	24,870	11.30
Miscellaneous entertainment attendants and related workers.....	366,050	12.06	25,090	11.32
Amusement and recreation attendants.....	338,110	11.70	24,330	11.23
Costume attendants.....	7,460	23.55	48,970	19.91
Locker room, coatroom, and dressing room attendants.....	15,990	13.57	28,230	12.07
Entertainment attendants and related workers, all other.....	4,500	15.28	31,790	12.72
Embalmers.....	3,890	24.09	50,100	22.96
Funeral attendants.....	34,370	14.34	29,830	13.43
Morticians, undertakers, and funeral arrangers.....	25,440	28.06	58,360	26.04
Personal appearance workers.....	589,960	15.24	31,700	12.71
Barbers, hairdressers, hairstylists and cosmetologists.....	405,990	15.25	31,710	12.63
Barbers.....	20,030	16.92	35,190	14.50
Hairdressers, hairstylists, and cosmetologists.....	385,960	15.16	31,530	12.54
Miscellaneous personal appearance workers.....	183,970	15.22	31,660	12.83
Makeup artists, theatrical and performance.....	3,400	39.23	81,600	36.41
Manicurists and pedicurists.....	111,780	13.17	27,390	12.39
Shampooers.....	12,120	11.02	22,910	10.84
Skincare specialists.....	56,660	18.74	38,970	16.39
Baggage porters, bellhops, and concierges.....	81,460	15.06	31,330	13.73
Baggage porters, bellhops, and concierges.....	81,460	15.06	31,330	13.73
Baggage porters and bellhops.....	39,790	13.57	28,230	12.30
Concierges.....	41,670	16.48	34,290	15.09
Tour and travel guides.....	48,710	14.74	30,670	13.27
Tour and travel guides.....	48,710	14.74	30,670	13.27
Childcare workers.....	561,520	12.27	25,510	11.65
Recreation and fitness workers.....	684,240	17.71	36,830	14.66
Exercise trainers and group fitness instructors.....	325,500	21.69	45,110	19.42
Recreation workers.....	358,750	14.10	29,330	12.67
Residential advisors.....	107,930	15.20	31,610	14.16
Crematory operators and personal care and service workers, all other.....	61,510	14.03	29,190	13.04
<b>Sales and related occupations</b>	<b>14,371,410</b>	<b>20.70</b>	<b>43,060</b>	<b>14.24</b>
Supervisors of sales workers.....	1,420,990	25.43	52,900	21.27
First-line supervisors of sales workers.....	1,420,990	25.43	52,900	21.27
First-line supervisors of retail sales workers.....	1,171,900	22.03	45,830	19.40
First-line supervisors of non-retail sales workers.....	249,090	41.43	86,180	35.94
Retail sales workers.....	8,603,590	13.27	27,600	11.84
Cashiers.....	3,617,910	11.73	24,400	11.38
Cashiers.....	3,596,630	11.72	24,370	11.37
Gambling change persons and booth cashiers.....	21,290	13.46	28,010	12.35
Counter and rental clerks and parts salespersons.....	667,730	16.16	33,610	14.35
Counter and rental clerks.....	411,560	15.67	32,600	13.86
Parts salespersons.....	256,170	16.93	35,220	15.24
Retail salespersons.....	4,317,950	14.12	29,360	12.14
Sales representatives, services.....	2,084,000	34.45	71,660	26.62
Advertising sales agents.....	129,740	31.09	64,660	25.63
Insurance sales agents.....	410,050	32.59	67,780	24.49
Securities, commodities, and financial services sales agents.....	437,880	44.75	93,090	29.94
Travel agents.....	66,670	21.49	44,690	19.55
Sales representatives of services, except advertising, insurance, financial services, and travel.....	1,039,670	32.10	66,760	26.99
Sales representatives, wholesale and manufacturing.....	1,651,500	36.14	75,180	30.29
Sales representatives, wholesale and manufacturing.....	1,651,500	36.14	75,180	30.29
Sales representatives, wholesale and manufacturing, technical and scientific products.....	306,980	44.70	92,980	38.95
Sales representatives, wholesale and manufacturing, except technical and scientific products.....	1,344,530	34.19	71,110	28.81
Other sales and related workers.....	611,330	25.72	53,500	17.89
Models, demonstrators, and product promoters.....	80,080	17.00	35,360	14.85
Demonstrators and product promoters.....	77,760	16.98	35,320	14.87
Models.....	2,320	17.52	36,430	13.63

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Sales and related occupations (Continued)</b>				
Real estate brokers and sales agents.....	205,060	\$31.78	\$66,100	\$24.39
Real estate brokers.....	42,730	39.16	81,450	28.71
Real estate sales agents.....	162,330	29.83	62,060	23.53
Sales engineers.....	63,550	54.22	112,780	49.95
Telemarketers.....	134,800	14.31	29,770	12.64
Miscellaneous sales and related workers.....	127,850	19.35	40,240	15.14
Door-to-door sales workers, news and street vendors, and related workers.....	8,930	16.90	35,150	13.19
Sales and related workers, all other.....	118,910	19.53	40,620	15.30
<b>Office and administrative support occupations</b>				
Supervisors of office and administrative support workers.....	<b>19,528,250</b>	<b>19.73</b>	<b>41,040</b>	<b>18.07</b>
First-line supervisors of office and administrative support workers.....	1,487,870	28.91	60,130	27.22
Communications equipment operators.....	76,030	16.29	33,890	14.94
Switchboard operators, including answering service.....	68,050	15.88	33,030	14.72
Telephone operators.....	4,740	18.24	37,940	17.19
Communications equipment operators, all other.....	3,240	22.14	46,050	20.57
Financial clerks.....	2,910,660	19.60	40,770	18.52
Bill and account collectors.....	235,870	18.90	39,300	17.79
Billing and posting clerks.....	466,450	19.53	40,620	18.63
Bookkeeping, accounting, and auditing clerks.....	1,512,660	20.65	42,960	19.82
Gambling cage workers.....	14,330	14.23	29,600	13.48
Payroll and timekeeping clerks.....	142,700	22.79	47,390	22.20
Procurement clerks.....	66,030	21.14	43,980	20.82
Tellers.....	442,120	15.22	31,660	15.02
Financial clerks, all other.....	30,500	21.51	44,740	20.40
Information and record clerks.....	5,780,040	17.59	36,580	16.37
Brokerage clerks.....	47,990	26.53	55,190	25.36
Correspondence clerks.....	6,250	19.03	39,570	18.34
Court, municipal, and license clerks.....	154,020	20.21	42,030	18.93
Credit authorizers, checkers, and clerks.....	26,700	20.13	41,880	19.28
Customer service representatives.....	2,919,230	17.94	37,320	16.69
Eligibility interviewers, government programs.....	139,780	22.65	47,110	22.40
File clerks.....	102,300	16.64	34,610	15.73
Hotel, motel, and resort desk clerks.....	267,940	12.47	25,950	11.76
Interviewers, except eligibility and loan.....	188,570	17.49	36,390	16.81
Library assistants, clerical.....	85,910	14.34	29,820	13.22
Loan interviewers and clerks.....	208,530	20.17	41,960	19.54
New accounts clerks.....	43,420	18.50	38,490	17.57
Order clerks.....	137,180	17.60	36,600	16.46
Human resources assistants, except payroll and timekeeping.....	117,340	20.49	42,620	19.92
Receptionists and information clerks.....	1,057,370	15.02	31,250	14.45
Reservation and transportation ticket agents and travel clerks.....	123,660	21.34	44,390	18.45
Information and record clerks, all other.....	153,850	20.39	42,410	19.89
Material recording, scheduling, dispatching, and distributing workers.....	2,155,080	21.13	43,950	19.39
Cargo and freight agents.....	95,810	22.48	46,770	21.03
Couriers and messengers.....	74,720	15.21	31,640	14.28
Dispatchers.....	294,680	21.24	44,170	19.61
Public safety telecommunicators.....	95,320	21.31	44,310	20.15
Dispatchers, except police, fire, and ambulance.....	199,360	21.20	44,100	19.32
Meter readers, utilities.....	30,450	22.23	46,250	20.33
Postal service workers.....	523,220	24.88	51,740	25.03
Postal service clerks.....	81,170	24.33	50,610	23.23
Postal service mail carriers.....	339,650	25.09	52,180	24.67
Postal service mail sorters, processors, and processing machine operators.....	102,390	24.61	51,190	28.91
Production, planning, and expediting clerks.....	370,380	24.35	50,640	23.20
Shipping, receiving, and inventory clerks.....	704,910	17.32	36,030	16.44
Weighers, measurers, checkers, and samplers, recordkeeping.....	60,920	17.62	36,650	16.85
Secretaries and administrative assistants.....	3,353,950	20.87	43,410	19.16
Secretaries and administrative assistants.....	3,353,950	20.87	43,410	19.16
Executive secretaries and executive administrative assistants.....	542,690	30.25	62,920	29.27
Legal secretaries and administrative assistants.....	168,140	24.47	50,900	22.74
Medical secretaries and administrative assistants.....	604,780	18.31	38,090	17.59
Secretaries and administrative assistants, except legal, medical, and executive.....	2,038,340	18.84	39,180	18.12
Other office and administrative support workers.....	3,764,620	17.75	36,920	16.67
Data entry and information processing workers.....	207,390	17.52	36,440	16.79
Data entry keyers.....	159,930	16.74	34,820	16.10
Word processors and typists.....	47,460	20.13	41,880	19.39
Desktop publishers.....	8,740	23.43	48,740	21.82
Insurance claims and policy processing clerks.....	257,000	20.81	43,280	19.59
Mail clerks and mail machine operators, except postal service.....	83,580	15.68	32,620	14.89
Office clerks, general.....	2,956,060	17.48	36,360	16.37
Office machine operators, except computer.....	45,960	16.90	35,150	16.08
Proofreaders and copy markers.....	7,730	20.77	43,200	19.54
Statistical assistants.....	9,810	24.83	51,640	23.97
Office and administrative support workers, all other.....	188,360	18.41	38,290	17.05
<b>Farming, fishing, and forestry occupations</b>				
Supervisors of farming, fishing, and forestry workers.....	<b>484,750</b>	<b>15.07</b>	<b>31,340</b>	<b>13.07</b>
First-line supervisors of farming, fishing, and forestry workers.....	22,560	25.25	52,520	23.21
First-line supervisors of farming, fishing, and forestry workers.....	22,560	25.25	52,520	23.21

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Farming, fishing, and forestry occupations (Continued)</b>				
Agricultural workers.....	415,390	\$14.00	\$29,120	\$12.52
Agricultural inspectors.....	13,760	22.67	47,160	21.87
Animal breeders.....	1,610	22.32	46,420	20.64
Graders and sorters, agricultural products.....	34,340	13.25	27,570	12.34
Miscellaneous agricultural workers.....	365,680	13.71	28,510	12.41
Agricultural equipment operators.....	26,990	16.01	33,300	15.36
Farmworkers and laborers, crop, nursery, and greenhouse.....	295,520	13.36	27,780	12.23
Farmworkers, farm, ranch, and aquacultural animals.....	36,630	14.37	29,880	13.38
Agricultural workers, all other.....	6,540	16.31	33,930	14.23
Forest, conservation, and logging workers.....	44,720	19.78	41,130	18.79
Forest and conservation workers.....	6,760	15.76	32,790	15.27
Logging workers.....	37,960	20.49	42,620	19.82
Fallers.....	4,890	23.88	49,670	21.46
Logging equipment operators.....	26,030	20.22	42,060	19.92
Log graders and scalers.....	3,300	18.80	39,110	17.92
Logging workers, all other.....	3,750	19.42	40,390	19.12
<b>Construction and extraction occupations</b>				
Supervisors of construction and extraction workers.....	<b>6,194,140</b>	<b>25.28</b>	<b>52,580</b>	<b>22.80</b>
First-line supervisors of construction trades and extraction workers.....	626,180	34.35	71,440	31.83
Construction trades workers.....	4,617,440	24.68	51,330	22.28
Boilermakers.....	15,820	31.27	65,040	30.34
Brickmasons, blockmasons, and stonemasons.....	73,040	26.46	55,040	24.79
Brickmasons and blockmasons.....	60,650	27.15	56,470	25.53
Stonemasons.....	12,390	23.11	48,070	20.81
Carpenters.....	734,170	25.41	52,850	23.24
Carpet, floor, and tile installers and finishers.....	87,700	22.44	46,680	20.22
Carpet installers.....	26,010	21.79	45,320	19.27
Floor layers, except carpet, wood, and hard tiles.....	16,290	23.37	48,610	21.27
Floor sanders and finishers.....	4,940	20.34	42,300	19.04
Tile and stone setters.....	40,470	22.74	47,300	20.70
Cement masons, concrete finishers, and terrazzo workers.....	199,090	23.30	48,450	21.57
Cement masons and concrete finishers.....	196,120	23.24	48,330	21.54
Terrazzo workers and finishers.....	2,970	27.09	56,340	25.09
Construction laborers.....	1,020,350	20.06	41,730	17.72
Construction equipment operators.....	455,050	25.66	53,370	23.16
Paving, surfacing, and tamping equipment operators.....	45,770	21.46	44,630	19.29
Pile driver operators.....	3,540	33.76	70,230	30.10
Operating engineers and other construction equipment operators.....	405,750	26.06	54,210	23.55
Drywall installers, ceiling tile installers, and tapers.....	120,820	25.09	52,190	22.77
Drywall and ceiling tile installers.....	102,850	24.31	50,560	21.97
Tapers.....	17,970	29.59	61,550	28.40
Electricians.....	688,620	29.02	60,370	27.01
Glaziers.....	52,400	23.95	49,810	21.46
Insulation workers.....	60,220	23.60	49,090	21.24
Insulation workers, floor, ceiling, and wall.....	33,550	21.68	45,100	19.41
Insulation workers, mechanical.....	26,670	26.02	54,120	23.41
Painters and paperhangers.....	236,140	21.46	44,630	19.37
Painters, construction and maintenance.....	232,760	21.46	44,640	19.37
Paperhangers.....	3,380	21.38	44,470	19.48
Pipelayers, plumbers, pipefitters, and steamfitters.....	479,140	28.16	58,570	25.92
Pipelayers.....	36,270	20.96	43,600	18.66
Plumbers, pipefitters, and steamfitters.....	442,870	28.75	59,800	26.52
Plasterers and stucco masons.....	27,360	23.90	49,710	21.85
Reinforcing iron and rebar workers.....	18,870	26.27	54,650	23.60
Roofers.....	129,690	22.03	45,820	20.24
Sheet metal workers.....	131,300	26.19	54,480	24.23
Structural iron and steel workers.....	76,570	28.45	59,170	26.46
Solar photovoltaic installers.....	11,080	22.52	46,850	21.58
Helpers, construction trades.....	242,400	16.49	34,300	15.73
Helpers, construction trades.....	242,400	16.49	34,300	15.73
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters.....	23,480	18.48	38,440	17.02
Helpers--carpenters.....	32,920	16.26	33,830	15.89
Helpers--electricians.....	79,260	16.49	34,300	15.78
Helpers--painters, paperhangers, plasterers, and stucco masons.....	10,850	15.83	32,930	15.07
Helpers--pipelayers, plumbers, pipefitters, and steamfitters.....	58,400	16.23	33,750	15.43
Helpers--roofers.....	8,960	16.04	33,350	15.44
Helpers, construction trades, all other.....	28,530	16.06	33,400	15.34
Other construction and related workers.....	437,730	24.81	51,600	22.36
Construction and building inspectors.....	110,420	30.96	64,390	29.19
Elevator and escalator installers and repairers.....	28,350	40.02	83,250	40.86
Fence erectors.....	25,900	18.56	38,600	17.21
Hazardous materials removal workers.....	44,240	22.95	47,740	21.11
Highway maintenance workers.....	150,860	20.39	42,410	19.58
Rail-track laying and maintenance equipment operators.....	16,180	27.48	57,160	26.97
Septic tank servicers and sewer pipe cleaners.....	29,750	20.56	42,760	19.17
Miscellaneous construction and related workers.....	32,040	21.17	44,030	19.10
Extraction workers.....	270,390	23.16	48,180	21.61
Derrick, rotary drill, and service unit operators, oil and gas.....	84,880	25.15	52,320	23.24

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Construction and extraction occupations (Continued)</b>				
Derrick operators, oil and gas.....	12,110	\$23.09	\$48,030	\$22.59
Rotary drill operators, oil and gas.....	21,010	27.44	57,070	26.43
Service unit operators, oil and gas.....	51,760	24.71	51,390	22.47
Excavating and loading machine and dragline operators, surface mining.....	44,090	23.36	48,580	21.54
Continuous mining machine operators.....	14,630	27.18	56,530	26.58
Roof bolters, mining.....	3,140	28.63	59,560	28.41
Loading and moving machine operators, underground mining.....	4,200	25.83	53,730	26.06
Rock splitters, quarry.....	5,080	17.97	37,390	17.34
Roustabouts, oil and gas.....	58,930	19.85	41,280	18.71
Helpers--extraction workers.....	16,700	18.46	38,390	17.85
Earth drillers, except oil and gas; and explosives workers, ordnance handling experts, and blasters.....	24,940	23.50	48,890	22.24
Underground mining machine operators and extraction workers, all other.....	13,790	25.13	52,280	24.11
<b>Installation, maintenance, and repair occupations</b>	<b>5,713,450</b>	<b>24.10</b>	<b>50,130</b>	<b>22.42</b>
Supervisors of installation, maintenance, and repair workers.....	485,700	33.92	70,550	32.44
First-line supervisors of mechanics, installers, and repairers.....	485,700	33.92	70,550	32.44
Electrical and electronic equipment mechanics, installers, and repairers.....	557,620	26.27	54,630	25.28
Computer, automated teller, and office machine repairers.....	98,260	20.23	42,070	19.01
Radio and telecommunications equipment installers and repairers.....	222,850	28.13	58,510	27.75
Radio, cellular, and tower equipment installers and repairers.....	14,370	27.80	57,820	26.62
Telecommunications equipment installers and repairers, except line installers.....	208,480	28.15	58,560	27.84
Miscellaneous electrical and electronic equipment mechanics, installers, and repairers.....	236,500	27.02	56,200	26.14
Avionics technicians.....	21,750	32.20	66,970	31.59
Electric motor, power tool, and related repairers.....	15,890	22.41	46,620	21.19
Electrical and electronics installers and repairers, transportation equipment.....	9,790	30.61	63,670	30.06
Electrical and electronics repairers, commercial and industrial equipment.....	58,930	29.02	60,360	28.51
Electrical and electronics repairers, powerhouse, substation, and relay.....	22,650	39.08	81,280	39.80
Electronic equipment installers and repairers, motor vehicles.....	10,310	18.71	38,910	17.97
Audiovisual equipment installers and repairers.....	25,590	20.25	42,130	18.99
Security and fire alarm systems installers.....	71,600	24.14	50,210	23.54
Vehicle and mobile equipment mechanics, installers, and repairers.....	1,638,920	22.81	47,440	21.44
Aircraft mechanics and service technicians.....	133,310	32.27	67,110	30.81
Automotive technicians and repairers.....	818,920	21.71	45,150	20.26
Automotive body and related repairers.....	144,180	22.79	47,390	20.95
Automotive glass installers and repairers.....	19,410	18.00	37,440	17.20
Automotive service technicians and mechanics.....	655,330	21.58	44,890	20.24
Bus and truck mechanics and diesel engine specialists.....	266,330	24.21	50,360	23.32
Heavy vehicle and mobile equipment service technicians and mechanics.....	210,020	25.55	53,140	24.80
Farm equipment mechanics and service technicians.....	36,290	20.97	43,630	20.29
Mobile heavy equipment mechanics, except engines.....	147,800	26.36	54,840	25.66
Rail car repairers.....	25,930	27.31	56,810	27.11
Small engine mechanics.....	70,690	19.26	40,050	18.19
Motorboat mechanics and service technicians.....	22,940	20.89	43,440	19.87
Motorcycle mechanics.....	15,590	19.22	39,970	18.08
Outdoor power equipment and other small engine mechanics.....	32,160	18.11	37,670	17.36
Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers.....	139,640	15.24	31,710	14.19
Bicycle repairers.....	13,190	15.07	31,360	14.58
Recreational vehicle service technicians.....	15,580	20.03	41,660	18.54
Tire repairers and changers.....	110,880	14.59	30,350	13.77
Other installation, maintenance, and repair occupations.....	3,031,220	22.83	47,480	21.20
Control and valve installers and repairers.....	75,320	26.43	54,970	24.34
Mechanical door repairers.....	23,050	21.03	43,740	19.99
Control and valve installers and repairers, except mechanical door.....	52,270	28.81	59,920	27.93
Heating, air conditioning, and refrigeration mechanics and installers.....	342,040	24.72	51,420	23.43
Home appliance repairers.....	31,100	20.38	42,400	19.36
Industrial machinery installation, repair, and maintenance workers.....	508,660	26.27	54,640	25.41
Industrial machinery mechanics.....	387,630	26.60	55,320	25.77
Maintenance workers, machinery.....	72,890	23.77	49,450	22.85
Millwrights.....	47,320	27.43	57,050	26.71
Refractory materials repairers, except brickmasons.....	820	26.80	55,750	25.95
Line installers and repairers.....	232,560	31.52	65,570	31.59
Electrical power-line installers and repairers.....	111,660	34.60	71,960	34.86
Telecommunications line installers and repairers.....	120,900	28.69	59,670	27.29
Precision instrument and equipment repairers.....	71,360	24.85	51,700	23.29
Camera and photographic equipment repairers.....	3,620	19.58	40,720	18.69
Medical equipment repairers.....	46,370	25.54	53,130	23.69
Musical instrument repairers and tuners.....	8,020	19.11	39,750	17.62
Watch and clock repairers.....	2,780	21.77	45,280	20.44
Precision instrument and equipment repairers, all other.....	10,570	28.82	59,940	28.23
Maintenance and repair workers, general.....	1,418,990	20.17	41,960	18.79
Wind turbine service technicians.....	5,960	27.26	56,700	25.44
Miscellaneous installation, maintenance, and repair workers.....	345,230	19.86	41,310	17.91
Coin, vending, and amusement machine servicers and repairers.....	31,370	17.97	37,380	17.03
Commercial divers.....	3,420	32.26	67,100	24.03
Locksmiths and safe repairers.....	17,010	21.38	44,460	20.16
Manufactured building and mobile home installers.....	2,810	16.49	34,300	16.29
Riggers.....	23,000	25.20	52,420	24.45
Signal and track switch repairers.....	6,860	34.95	72,690	35.52
Helpers--installation, maintenance, and repair workers.....	99,460	15.66	32,570	14.68
Installation, maintenance, and repair workers, all other.....	161,290	21.06	43,800	19.15

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Production occupations</b>	<b>9,158,980</b>	<b>\$19.30</b>	<b>\$40,140</b>	<b>\$17.31</b>
Supervisors of production workers.....	631,100	31.35	65,220	29.48
First-line supervisors of production and operating workers.....	631,100	31.35	65,220	29.48
Assemblers and fabricators.....	1,856,870	17.46	36,310	16.21
Aircraft structure, surfaces, rigging, and systems assemblers.....	42,940	27.15	56,460	26.06
Electrical, electronics, and electromechanical assemblers.....	297,880	17.79	37,010	16.77
Coil winders, tapers, and finishers.....	12,690	18.63	38,760	17.56
Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers.....	285,190	17.75	36,930	16.74
Engine and other machine assemblers.....	45,980	22.39	46,570	21.95
Structural metal fabricators and fitters.....	76,890	20.67	43,000	19.42
Fiberglass laminators and fabricators.....	20,010	17.78	36,970	17.06
Timing device assemblers and adjusters.....	1,260	18.32	38,110	16.87
Miscellaneous assemblers and fabricators.....	1,371,920	16.73	34,800	15.55
Food processing workers.....	802,290	14.94	31,080	14.09
Bakers.....	184,990	14.25	29,630	13.32
Butchers and other meat, poultry, and fish processing workers.....	364,150	14.87	30,920	14.19
Butchers and meat cutters.....	136,770	16.35	34,010	15.62
Meat, poultry, and fish cutters and trimmers.....	153,990	13.85	28,810	13.51
Slaughterers and meat packers.....	73,390	14.23	29,600	14.05
Miscellaneous food processing workers.....	253,140	15.56	32,360	14.52
Food and tobacco roasting, baking, and drying machine operators and tenders.....	20,830	16.29	33,880	15.19
Food batchmakers.....	159,390	15.92	33,120	14.80
Food cooking machine operators and tenders.....	30,030	15.54	32,320	14.96
Food processing workers, all other.....	42,890	13.85	28,820	13.24
Metal workers and plastic workers.....	1,825,170	20.22	42,050	18.96
Forming machine setters, operators, and tenders, metal and plastic.....	125,730	18.89	39,290	18.12
Extruding and drawing machine setters, operators, and tenders, metal and plastic.....	76,940	18.16	37,770	17.46
Forging machine setters, operators, and tenders, metal and plastic.....	16,320	19.81	41,200	19.07
Rolling machine setters, operators, and tenders, metal and plastic.....	32,470	20.15	41,920	19.47
Machine tool cutting setters, operators, and tenders, metal and plastic.....	329,530	18.48	38,440	17.54
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic.....	195,040	17.94	37,310	17.12
Drilling and boring machine tool setters, operators, and tenders, metal and plastic.....	10,870	20.49	42,630	18.71
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic.....	76,810	18.20	37,860	17.36
Lathe and turning machine tool setters, operators, and tenders, metal and plastic.....	28,070	20.19	41,990	19.28
Milling and planing machine setters, operators, and tenders, metal and plastic.....	18,730	21.55	44,820	20.77
Machinists.....	383,470	22.17	46,120	21.36
Metal furnace operators, tenders, pourers, and casters.....	25,160	20.43	42,500	19.66
Metal-refining furnace operators and tenders.....	17,150	20.81	43,280	20.31
Pourers and casters, metal.....	8,010	19.64	40,850	18.57
Model makers and patternmakers, metal and plastic.....	7,310	25.75	53,560	25.09
Model makers, metal and plastic.....	4,300	27.61	57,420	27.41
Patternmakers, metal and plastic.....	3,010	23.10	48,050	22.55
Molders and molding machine setters, operators, and tenders, metal and plastic.....	190,110	16.77	34,870	15.61
Foundry mold and coremakers.....	17,590	17.75	36,920	17.11
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic.....	172,520	16.67	34,670	15.45
Multiple machine tool setters, operators, and tenders, metal and plastic.....	146,950	18.47	38,410	17.47
Tool and die makers.....	70,770	26.43	54,980	25.92
Welding, soldering, and brazing workers.....	445,850	21.54	44,800	20.24
Welders, cutters, solderers, and brazers.....	410,750	21.73	45,190	20.43
Welding, soldering, and brazing machine setters, operators, and tenders.....	35,110	19.35	40,240	18.42
Miscellaneous metal workers and plastic workers.....	100,300	18.49	38,470	17.33
Heat treating equipment setters, operators, and tenders, metal and plastic.....	19,560	19.16	39,840	18.39
Layout workers, metal and plastic.....	8,150	23.51	48,900	24.01
Plating machine setters, operators, and tenders, metal and plastic.....	41,810	17.14	35,640	16.10
Tool grinders, filers, and sharpeners.....	6,440	20.18	41,970	18.91
Metal workers and plastic workers, all other.....	24,340	18.17	37,790	16.75
Printing workers.....	249,300	18.65	38,790	17.60
Printing workers.....	249,300	18.65	38,790	17.60
Prepress technicians and workers.....	30,270	20.45	42,540	19.48
Printing press operators.....	173,430	18.80	39,100	17.74
Print binding and finishing workers.....	45,600	16.89	35,130	15.89
Textile, apparel, and furnishings workers.....	569,260	13.78	28,660	12.68
Laundry and dry-cleaning workers.....	209,330	12.22	25,420	11.64
Pressers, textile, garment, and related materials.....	38,070	11.93	24,820	11.63
Sewing machine operators.....	133,410	13.46	28,000	12.70
Shoe and leather workers.....	13,780	14.70	30,570	14.34
Shoe and leather workers and repairers.....	8,760	14.70	30,580	14.21
Shoe machine operators and tenders.....	5,020	14.68	30,540	14.70
Tailors, dressmakers, and sewers.....	28,880	16.32	33,950	15.02
Sewers, hand.....	4,770	14.92	31,020	14.40
Tailors, dressmakers, and custom sewers.....	24,110	16.60	34,530	15.15
Textile machine setters, operators, and tenders.....	74,220	14.77	30,720	14.25
Textile bleaching and dyeing machine operators and tenders.....	8,690	14.81	30,810	14.16
Textile cutting machine setters, operators, and tenders.....	13,210	14.26	29,660	13.81
Textile knitting and weaving machine setters, operators, and tenders.....	21,130	15.05	31,300	14.41
Textile winding, twisting, and drawing out machine setters, operators, and tenders.....	31,190	14.78	30,740	14.32
Miscellaneous textile, apparel, and furnishings workers.....	71,570	17.67	36,750	16.26
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers.....	18,230	18.16	37,760	17.36
Fabric and apparel patternmakers.....	5,870	25.35	52,740	21.67

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Production occupations (Continued)</b>				
Upholsters.....	29,420	\$17.62	\$36,640	\$16.89
Textile, apparel, and furnishings workers, all other.....	18,060	14.76	30,710	13.45
Woodworkers.....	253,080	16.66	34,660	15.75
Cabinetmakers and bench carpenters.....	99,400	18.09	37,620	17.21
Furniture finishers.....	16,220	16.51	34,350	15.62
Model makers and patternmakers, wood.....	1,190	28.49	59,270	29.39
Model makers, wood.....	810	27.56	57,320	28.49
Patternmakers, wood.....	370	30.53	63,490	31.19
Woodworking machine setters, operators, and tenders.....	129,580	15.47	32,170	14.79
Sawing machine setters, operators, and tenders, wood.....	50,730	15.46	32,150	14.62
Woodworking machine setters, operators, and tenders, except sawing.....	78,850	15.47	32,180	14.90
Woodworkers, all other.....	6,700	16.96	35,270	15.92
Plant and system operators.....	302,270	30.40	63,230	29.01
Power plant operators, distributors, and dispatchers.....	49,440	40.22	83,660	41.32
Nuclear power reactor operators.....	5,050	48.55	100,990	48.33
Power distributors and dispatchers.....	10,770	42.74	88,910	43.61
Power plant operators.....	33,620	38.16	79,370	39.42
Stationary engineers and boiler operators.....	32,520	31.71	65,970	29.88
Water and wastewater treatment plant and system operators.....	123,730	24.28	50,490	22.96
Miscellaneous plant and system operators.....	96,580	32.77	68,170	32.64
Chemical plant and system operators.....	28,840	30.15	62,710	30.07
Gas plant operators.....	14,410	34.16	71,050	34.00
Petroleum pump system operators, refinery operators, and gaugers.....	40,370	35.49	73,830	35.66
Plant and system operators, all other.....	12,950	28.61	59,500	28.07
Other production occupations.....	2,669,650	18.64	38,770	17.11
Chemical processing machine setters, operators, and tenders.....	138,290	23.68	49,250	22.22
Chemical equipment operators and tenders.....	87,120	24.78	51,540	23.62
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders.....	51,160	21.81	45,370	19.87
Crushing, grinding, polishing, mixing, and blending workers.....	187,870	18.63	38,740	17.62
Crushing, grinding, and polishing machine setters, operators, and tenders.....	33,360	18.88	39,270	18.06
Grinding and polishing workers, hand.....	29,170	15.90	33,060	14.71
Mixing and blending machine setters, operators, and tenders.....	125,340	19.19	39,920	18.17
Cutting workers.....	67,620	17.37	36,120	16.74
Cutters and trimmers, hand.....	9,670	15.55	32,340	14.52
Cutting and slicing machine setters, operators, and tenders.....	57,960	17.67	36,750	17.11
Extruding, forming, pressing, and compacting machine setters, operators, and tenders.....	71,850	17.90	37,240	17.06
Furnace, kiln, oven, drier, and kettle operators and tenders.....	18,970	19.88	41,350	19.27
Inspectors, testers, sorters, samplers, and weighers.....	576,950	20.67	43,000	18.82
Jewelers and precious stone and metal workers.....	23,590	22.09	45,950	19.65
Dental and ophthalmic laboratory technicians and medical appliance technicians.....	77,730	19.58	40,730	17.96
Dental laboratory technicians.....	34,460	21.31	44,330	19.87
Medical appliance technicians.....	14,130	21.25	44,200	19.56
Ophthalmic laboratory technicians.....	29,150	16.73	34,800	15.68
Packaging and filling machine operators and tenders.....	390,540	16.15	33,590	14.90
Painting workers.....	158,780	19.63	40,820	18.16
Painting, coating, and decorating workers.....	12,430	17.11	35,600	15.84
Coating, painting, and spraying machine setters, operators, and tenders.....	146,350	19.84	41,260	18.34
Semiconductor processing technicians.....	27,680	20.17	41,950	18.30
Photographic process workers and processing machine operators.....	11,940	17.74	36,890	15.52
Computer numerically controlled tool operators and programmers.....	177,270	21.90	45,560	20.68
Computer numerically controlled tool operators.....	151,700	20.75	43,170	19.81
Computer numerically controlled tool programmers.....	25,570	28.72	59,730	27.14
Miscellaneous production workers.....	740,570	16.34	33,980	14.94
Adhesive bonding machine operators and tenders.....	13,890	17.31	36,010	16.51
Cleaning, washing, and metal pickling equipment operators and tenders.....	16,410	16.46	34,230	15.31
Cooling and freezing equipment operators and tenders.....	8,740	17.80	37,010	16.97
Etchers and engravers.....	10,310	16.24	33,770	14.72
Molders, shapers, and casters, except metal and plastic.....	44,890	17.31	36,000	16.36
Paper goods machine setters, operators, and tenders.....	100,290	19.70	40,980	18.85
Tire builders.....	20,790	21.64	45,010	22.12
Helpers--production workers.....	303,030	14.68	30,540	13.99
Production workers, all other.....	222,230	16.26	33,830	14.33
<b>Transportation and material moving occupations</b>	<b>12,532,030</b>	<b>18.23</b>	<b>37,920</b>	<b>15.60</b>
Supervisors of transportation and material moving workers.....	464,890	27.81	57,850	26.46
First-line supervisors of transportation and material moving workers.....	464,890	27.81	57,850	26.46
Aircraft cargo handling supervisors.....	9,500	27.87	57,960	25.89
First-line supervisors of transportation and material moving workers, except aircraft cargo handling supervisors.....	455,390	27.81	57,840	26.47
Air transportation workers.....	275,960	(?)	104,130	(?)
Aircraft pilots and flight engineers.....	122,350	(?)	152,610	(?)
Airline pilots, copilots, and flight engineers.....	84,520	(?)	174,870	(?)
Commercial pilots.....	37,830	(?)	102,870	(?)
Air traffic controllers and airfield operations specialists.....	32,780	47.96	99,760	44.80
Air traffic controllers.....	22,090	57.76	120,140	59.13
Airfield operations specialists.....	10,680	27.70	57,620	25.31
Flight attendants.....	120,840	(?)	56,230	(?)
Motor vehicle operators.....	4,174,700	19.57	40,710	18.53
Ambulance drivers and attendants, except emergency medical technicians.....	14,740	14.23	29,600	12.45
Driver/sales workers and truck drivers.....	3,223,840	20.27	42,170	19.38
Driver/sales workers.....	444,660	14.53	30,230	12.43

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2019- Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Transportation and material moving occupations (Continued)</b>				
Heavy and tractor-trailer truck drivers.....	1,856,130	\$22.52	\$46,850	\$21.76
Light truck drivers.....	923,050	18.52	38,520	16.70
Passenger vehicle drivers.....	879,540	17.21	35,790	16.01
Bus drivers, transit and intercity.....	179,510	22.03	45,830	20.69
Passenger vehicle drivers, except bus drivers, transit and intercity.....	700,030	15.97	33,210	15.07
Motor vehicle operators, all other.....	56,590	17.93	37,300	15.82
Rail transportation workers.....	111,090	32.33	67,240	31.20
Locomotive engineers and operators.....	40,920	33.21	69,080	31.27
Locomotive engineers.....	35,520	34.41	71,570	32.26
Rail yard engineers, dinky operators, and hostlers.....	5,400	25.33	52,690	23.72
Railroad brake, signal, and switch operators and locomotive firers.....	11,080	29.99	62,380	28.97
Railroad conductors and yardmasters.....	45,710	32.86	68,350	31.73
Subway and streetcar operators.....	10,730	30.66	63,770	32.63
Rail transportation workers, all other.....	2,650	26.04	54,170	24.81
Water transportation workers.....	75,180	34.25	71,240	27.56
Sailors and marine oilers.....	31,290	25.60	53,250	20.90
Ship and boat captains and operators.....	35,480	40.93	85,130	33.60
Captains, mates, and pilots of water vessels.....	33,370	42.03	87,420	34.78
Motorboat operators.....	2,120	23.57	49,030	23.20
Ship engineers.....	8,410	38.24	79,540	35.87
Other transportation workers.....	368,840	15.98	33,240	12.87
Bridge and lock tenders.....	3,150	23.02	47,880	24.09
Parking attendants.....	147,390	12.72	26,450	12.09
Automotive and watercraft service attendants.....	117,670	12.91	26,860	12.11
Traffic technicians.....	7,470	25.28	52,590	22.83
Transportation inspectors.....	30,020	37.27	77,530	36.45
Passenger attendants.....	28,200	14.15	29,420	12.78
Aircraft service attendants and transportation workers, all other.....	34,940	20.65	42,940	17.79
Material moving workers.....	7,061,370	15.28	31,790	13.97
Conveyor operators and tenders.....	24,050	17.38	36,150	16.66
Crane and tower operators.....	45,480	29.10	60,530	27.26
Dredge operators.....	1,550	24.68	51,340	22.62
Hoist and winch operators.....	4,800	30.14	62,690	28.71
Industrial truck and tractor operators.....	629,270	18.24	37,930	17.40
Laborers and material movers.....	6,168,600	14.70	30,570	13.53
Cleaners of vehicles and equipment.....	382,670	13.43	27,940	12.40
Laborers and freight, stock, and material movers, hand.....	2,953,170	15.45	32,130	14.19
Machine feeders and offbearers.....	63,280	15.87	33,010	14.99
Packers and packagers, hand.....	633,640	13.31	27,680	12.46
Stockers and order fillers.....	2,135,850	14.26	29,660	13.16
Pumping station operators.....	26,420	25.87	53,820	25.11
Gas compressor and gas pumping station operators.....	3,440	30.15	62,710	31.81
Pump operators, except wellhead pumpers.....	10,000	23.61	49,120	21.65
Wellhead pumpers.....	12,970	26.48	55,080	26.46
Refuse and recyclable material collectors.....	121,330	19.90	41,400	18.19
Tank car, truck, and ship loaders.....	11,620	22.88	47,580	20.36
Material moving workers, all other.....	28,240	17.56	36,530	15.28

<sup>1</sup> Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

<sup>2</sup> Wages for some occupations that do not generally work year-round, full time, are reported either as hourly wages or annual salaries depending on how they are typically paid.

<sup>3</sup> Represents a wage equal to or greater than \$100.00 per hour.