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**Table 1.1 Employment by major occupational group, 2016 and projected 2026 (Numbers in thousands)**

2016 National Employment Matrix title and code		Employment		Change, 2016-26		Median annual wage, 2016 <sup>(1)</sup>
		2016	2026	Number	Percent	
Total, all occupations	00-0000	156,063.8	167,582.3	11,518.6	7.4	\$37,040
Management occupations	11-0000	9,533.1	10,411.5	878.3	9.2	\$100,790
Business and financial operations occupations	13-0000	8,066.8	8,817.3	750.4	9.3	\$66,530
Computer and mathematical occupations	15-0000	4,419.0	5,015.3	596.3	13.5	\$82,830
Architecture and engineering occupations	17-0000	2,601.0	2,794.2	193.2	7.4	\$77,900
Life, physical, and social science occupations	19-0000	1,299.5	1,422.4	122.9	9.5	\$63,340
Community and social service occupations	21-0000	2,570.7	2,917.9	347.2	13.5	\$42,990
Legal occupations	23-0000	1,283.3	1,409.1	125.8	9.8	\$79,650
Education, training, and library occupations	25-0000	9,426.5	10,303.4	876.8	9.3	\$48,000
Arts, design, entertainment, sports, and media occupations	27-0000	2,772.9	2,946.5	173.6	6.3	\$47,190
Healthcare practitioners and technical occupations	29-0000	8,751.5	10,082.4	1,330.9	15.2	\$63,420
Healthcare support occupations	31-0000	4,315.6	5,315.5	999.9	23.2	\$27,910
Protective service occupations	33-0000	3,505.6	3,663.8	158.2	4.5	\$38,660
Food preparation and serving related occupations	35-0000	13,206.1	14,438.3	1,232.2	9.3	\$20,810
Building and grounds cleaning and maintenance occupations	37-0000	5,654.1	6,147.3	493.2	8.7	\$24,700
Personal care and service occupations	39-0000	6,419.7	7,589.0	1,169.2	18.2	\$22,710
Sales and related occupations	41-0000	15,747.8	16,255.2	507.4	3.2	\$26,590
Office and administrative support occupations	43-0000	23,081.2	23,230.6	149.4	0.6	\$34,050
Farming, fishing, and forestry occupations	45-0000	1,060.1	1,060.6	0.5	0.0	\$23,510
Construction and extraction occupations	47-0000	6,812.5	7,570.8	758.4	11.1	\$43,610
Installation, maintenance, and repair occupations	49-0000	5,905.4	6,301.5	396.1	6.7	\$43,440
Production occupations	51-0000	9,356.9	8,971.6	-385.3	-4.1	\$33,130
Transportation and material moving occupations	53-0000	10,274.2	10,918.1	643.9	6.3	\$30,730

Footnotes:

<sup>(1)</sup> Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and salary workers and do not cover the self-employed, owners and partners in unincorporated firms, or household workers.

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

**Table 1.3 Fastest growing occupations, 2016 and projected 2026  
(Numbers in thousands)**

2016 National Employment Matrix title and code		Employment		Change, 2016-26		Median annual wage, 2016 <sup>(1)</sup>
		2016	2026	Number	Percent	
Total, all occupations	00-0000	156,063.8	167,582.3	11,518.6	7.4	\$37,040
Solar photovoltaic installers	47-2231	11.3	23.2	11.9	105.3	\$39,240
Wind turbine service technicians	49-9081	5.8	11.3	5.5	96.1	\$52,260
Home health aides	31-1011	911.5	1,337.0	425.6	46.7	\$22,600
Personal care aides	39-9021	2,016.1	2,770.1	754.0	37.4	\$21,920
Physician assistants	29-1071	106.2	145.9	39.7	37.4	\$101,480
Nurse practitioners	29-1171	155.5	211.5	56.0	36.0	\$100,910
Statisticians	15-2041	37.2	49.6	12.4	33.4	\$80,500
Physical therapist assistants	31-2021	88.3	115.5	27.2	30.8	\$56,610
Software developers, applications	15-1132	831.3	1,084.6	253.4	30.5	\$100,080
Mathematicians	15-2021	3.1	4.0	0.9	29.4	\$105,810
Bicycle repairers	49-3091	12.4	16.1	3.7	29.4	\$27,630
Medical assistants	31-9092	634.4	819.0	184.6	29.1	\$31,540
Physical therapist aides	31-2022	52.0	67.1	15.1	29.1	\$25,680
Occupational therapy assistants	31-2011	39.3	50.7	11.4	28.9	\$59,010
Information security analysts	15-1122	100.0	128.5	28.4	28.4	\$92,600
Genetic counselors	29-9092	3.1	3.9	0.9	28.3	\$74,120
Operations research analysts	15-2031	114.0	145.3	31.3	27.4	\$79,200
Forest fire inspectors and prevention specialists	33-2022	1.7	2.2	0.5	26.6	\$36,230
Health specialties teachers, postsecondary	25-1071	233.5	294.0	60.5	25.9	\$99,360
Derrick operators, oil and gas	47-5011	11.1	13.9	2.8	25.7	\$48,130
Physical therapists	29-1123	239.8	299.8	60.0	25.0	\$85,400
Occupational therapy aides	31-2012	7.5	9.3	1.8	24.7	\$28,330
Roustabouts, oil and gas	47-5071	50.0	62.3	12.2	24.5	\$37,340
Phlebotomists	31-9097	122.7	152.6	30.0	24.4	\$32,710
Rotary drill operators, oil and gas	47-5012	16.7	20.8	4.0	24.2	\$54,430
Nursing instructors and teachers, postsecondary	25-1072	67.9	84.2	16.3	24.0	\$69,130
Massage therapists	31-9011	160.3	198.1	37.7	23.5	\$39,860
Service unit operators, oil, gas, and mining	47-5013	41.4	51.1	9.7	23.4	\$48,610
Respiratory therapists	29-1126	130.2	160.6	30.4	23.4	\$58,670
Diagnostic medical sonographers	29-2032	67.3	82.9	15.6	23.2	\$69,650

Footnotes:

<sup>(1)</sup> Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and  
Source: Employment Projections program, U.S. Bureau of Labor Statistics

**Table 1.4 Occupations with the most job growth, 2016 and projected 2026  
(Numbers in thousands)**

2016 National Employment Matrix title and code		Employment		Change, 2016-26		Median annual wage, 2016 <sup>(1)</sup>
		2016	2026	Number	Percent	
Total, all occupations	00-0000	156,063.8	167,582.3	11,518.6	7.4	\$37,040
Personal care aides	39-9021	2,016.1	2,770.1	754.0	37.4	\$21,920
Combined food preparation and serving workers, including fast food	35-3021	3,452.2	4,032.1	579.9	16.8	\$19,440
Registered nurses	29-1141	2,955.2	3,392.2	437.0	14.8	\$68,450
Home health aides	31-1011	911.5	1,337.0	425.6	46.7	\$22,600
Software developers, applications	15-1132	831.3	1,084.6	253.4	30.5	\$100,080
Janitors and cleaners, except maids and housekeeping cleaners	37-2011	2,384.6	2,617.7	233.0	9.8	\$24,190
General and operations managers	11-1021	2,263.1	2,469.0	205.9	9.1	\$99,310
Laborers and freight, stock, and material movers, hand	53-7062	2,628.4	2,829.2	200.8	7.6	\$25,980
Medical assistants	31-9092	634.4	819.0	184.6	29.1	\$31,540
Waiters and waitresses	35-3031	2,600.5	2,783.0	182.5	7.0	\$19,990
Nursing assistants	31-1014	1,510.3	1,674.4	164.0	10.9	\$26,590
Construction laborers	47-2061	1,216.7	1,370.0	153.3	12.6	\$33,430
Cooks, restaurant	35-2014	1,231.9	1,377.2	145.3	11.8	\$24,140
Accountants and auditors	13-2011	1,397.7	1,538.0	140.3	10.0	\$68,150
Customer service representatives	43-4051	2,784.5	2,920.5	136.0	4.9	\$32,300
Market research analysts and marketing specialists	13-1161	595.4	731.4	136.0	22.8	\$62,560
Medical secretaries	43-6013	574.2	703.2	129.1	22.5	\$33,730
Landscaping and groundskeeping workers	37-3011	1,197.9	1,321.2	123.3	10.3	\$26,320
Heavy and tractor-trailer truck drivers	53-3032	1,871.7	1,985.5	113.8	6.1	\$41,340
Maintenance and repair workers, general	49-9071	1,432.6	1,545.3	112.7	7.9	\$36,940
Teacher assistants	25-9041	1,308.1	1,417.6	109.5	8.4	\$25,410
Financial managers	11-3031	580.4	688.8	108.4	18.7	\$121,750
Elementary school teachers, except special education	25-2021	1,410.9	1,514.9	104.1	7.4	\$55,800
Stock clerks and order fillers	43-5081	2,008.6	2,109.9	101.3	5.0	\$23,840
Management analysts	13-1111	806.4	902.8	96.5	12.0	\$81,330
Receptionists and information clerks	43-4171	1,053.7	1,149.4	95.7	9.1	\$27,920
Sales representatives, services, all other	41-3099	983.0	1,077.2	94.2	9.6	\$52,490
Teachers and instructors, all other	25-3099	993.9	1,086.4	92.5	9.3	\$30,110
Business operations specialists, all other	13-1199	1,023.9	1,114.1	90.2	8.8	\$69,040
Licensed practical and licensed vocational nurses	29-2061	724.5	813.1	88.6	12.2	\$44,090

Footnotes:

<sup>(1)</sup> Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and salary workers and do not cover the self-employed, owners and partners in unincorporated firms, or household workers.

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

**Table 1.5 Fastest declining occupations, 2016 and projected 2026  
(Numbers in thousands)**

2016 National Employment Matrix title and code		Employment		Change, 2016-26		Median annual wage, 2016 <sup>(1)</sup>
		2016	2026	Number	Percent	
Total, all occupations	00-0000	156,063.8	167,582.3	11,518.6	7.4	\$37,040
Locomotive firers	53-4012	1.2	0.3	-0.9	-78.6	\$58,230
Respiratory therapy technicians	29-2054	10.8	4.7	-6.1	-56.3	\$49,780
Parking enforcement workers	33-3041	9.4	6.1	-3.3	-35.3	\$37,950
Word processors and typists	43-9022	74.9	49.9	-25.0	-33.4	\$38,740
Watch repairers	49-9064	1.8	1.3	-0.5	-28.7	\$36,740
Electronic equipment installers and repairers, motor vehicles	49-2096	12.1	9.0	-3.0	-25.2	\$32,220
Foundry mold and coremakers	51-4071	12.5	9.5	-3.0	-24.0	\$34,790
Pourers and casters, metal	51-4052	8.4	6.5	-2.0	-23.4	\$36,180
Computer operators	43-9011	51.5	39.7	-11.8	-22.9	\$42,270
Telephone operators	43-2021	9.1	7.0	-2.0	-22.6	\$37,000
Mine shuttle car operators	53-7111	1.5	1.2	-0.3	-21.9	\$56,450
Electromechanical equipment assemblers	51-2023	45.7	36.0	-9.7	-21.3	\$33,350
Data entry keyers	43-9021	203.8	160.8	-43.1	-21.1	\$30,100
Postmasters and mail superintendents	11-9131	14.2	11.2	-3.0	-20.9	\$71,670
Electrical and electronic equipment assemblers	51-2022	218.9	173.6	-45.3	-20.7	\$31,310
Coil winders, tapers, and finishers	51-2021	14.1	11.2	-2.9	-20.6	\$33,940
Grinding and polishing workers, hand	51-9022	26.6	21.1	-5.4	-20.5	\$28,720
Timing device assemblers and adjusters	51-2093	0.8	0.6	-0.2	-19.9	\$37,040
Switchboard operators, including answering service	43-2011	93.2	74.7	-18.5	-19.9	\$28,030
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	51-4032	12.3	9.9	-2.4	-19.4	\$36,410
Milling and planing machine setters, operators, and tenders, metal and plastic	51-4035	17.6	14.2	-3.4	-19.3	\$39,840
Forging machine setters, operators, and tenders, metal and plastic	51-4022	19.2	15.5	-3.7	-19.2	\$36,930
Legal secretaries	43-6012	194.7	157.5	-37.1	-19.1	\$44,180
Prepress technicians and workers	51-5111	34.6	28.0	-6.6	-19.0	\$38,930
Photographic process workers and processing machine operators	51-9151	26.9	21.9	-4.9	-18.4	\$26,470
Textile knitting and weaving machine setters, operators, and tenders	51-6063	22.2	18.1	-4.1	-18.3	\$27,470
Aircraft structure, surfaces, rigging, and systems assemblers	51-2011	41.8	34.5	-7.3	-17.4	\$50,050
Executive secretaries and executive administrative assistants	43-6011	685.3	566.2	-119.1	-17.4	\$55,860
Engine and other machine assemblers	51-2031	38.0	31.5	-6.5	-17.2	\$41,210
Textile bleaching and dyeing machine operators and tenders	51-6061	11.3	9.4	-1.9	-17.0	\$27,270

Footnotes:

<sup>(1)</sup> Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and salary workers and do not cover the self-employed, owners and partners in unincorporated firms, or household workers.

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

**Table 1.6 Occupations with the largest job declines, 2016 and projected 2026  
(Numbers in thousands)**

2016 National Employment Matrix title and code		Employment		Change, 2016-26		Median annual wage, 2016 <sup>(1)</sup>
		2016	2026	Number	Percent	
Total, all occupations	00-0000	156,063.8	167,582.3	11,518.6	7.4	\$37,040
Secretaries and administrative assistants, except legal, medical, and executive	43-6014	2,536.2	2,371.4	-164.8	-6.5	\$34,820
Team assemblers	51-2092	1,130.9	987.9	-143.0	-12.6	\$30,060
Executive secretaries and executive administrative assistants	43-6011	685.3	566.2	-119.1	-17.4	\$55,860
Inspectors, testers, sorters, samplers, and weighers	51-9061	520.7	465.2	-55.5	-10.7	\$36,780
Electrical and electronic equipment assemblers	51-2022	218.9	173.6	-45.3	-20.7	\$31,310
Data entry keyers	43-9021	203.8	160.8	-43.1	-21.1	\$30,100
Tellers	43-3071	502.7	460.9	-41.7	-8.3	\$27,260
Postal service mail carriers	43-5052	316.7	278.5	-38.2	-12.1	\$58,110
Legal secretaries	43-6012	194.7	157.5	-37.1	-19.1	\$44,180
Correctional officers and jailers	33-3012	450.0	415.5	-34.5	-7.7	\$42,820
Assemblers and fabricators, all other	51-2099	232.4	200.3	-32.2	-13.8	\$28,550
Office clerks, general	43-9061	3,117.7	3,085.7	-32.1	-1.0	\$30,580
Cashiers	41-2011	3,555.5	3,526.0	-29.5	-0.8	\$20,180
Cooks, fast food	35-2011	517.6	490.5	-27.1	-5.2	\$19,860
Word processors and typists	43-9022	74.9	49.9	-25.0	-33.4	\$38,740
Bookkeeping, accounting, and auditing clerks	43-3031	1,730.5	1,706.9	-23.5	-1.4	\$38,390
Computer programmers	15-1131	294.9	272.3	-22.6	-7.6	\$79,840
Sewing machine operators	51-6031	153.9	132.0	-21.9	-14.2	\$23,670
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	51-4072	145.4	123.6	-21.8	-15.0	\$30,480
Switchboard operators, including answering service	43-2011	93.2	74.7	-18.5	-19.9	\$28,030
Telecommunications equipment installers and repairers, except line installers	49-2022	237.6	219.6	-17.9	-7.6	\$53,640
Postal service mail sorters, processors, and processing machine operators	43-5053	106.7	89.1	-17.5	-16.5	\$56,220
Purchasing agents, except wholesale, retail, and farm products	13-1023	309.4	292.1	-17.3	-5.6	\$63,300
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	51-4031	192.7	175.9	-16.8	-8.7	\$32,370
Printing press operators	51-5112	178.7	162.0	-16.8	-9.4	\$35,530
File clerks	43-4071	135.0	121.1	-13.9	-10.3	\$29,090
Photographers	27-4021	147.3	134.9	-12.4	-8.4	\$34,070
Computer operators	43-9011	51.5	39.7	-11.8	-22.9	\$42,270
Structural metal fabricators and fitters	51-2041	77.0	65.2	-11.8	-15.3	\$37,730
Extruding and drawing machine setters, operators, and tenders, metal and plastic	51-4021	72.3	61.3	-11.0	-15.2	\$33,870

Footnotes:

<sup>(1)</sup> Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and salary workers and do not cover the self-employed, owners and partners in unincorporated firms, or household workers.

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

**Table 1.7 Occupational projections, 2016-26, and worker characteristics, 2016**  
(Numbers in thousands)

2016 National Employment Matrix title and code	Occupation type	Employment		Employment Change, 2016-26		Percent self employed, 2016	Occupational openings, 2016-26 annual average	Median annual wage, 2016 <sup>(1)</sup>	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026	Number	Percent						
Total, all occupations	00-0000 Summary	156,063.8	167,582.3	11,518.6	7.4	6.1	18,740.3	\$ 37,040	—	—	—
Management occupations	11-0000 Summary	9,533.1	10,411.5	878.3	9.2	19.8	851.2	\$ 100,790	—	—	—
Top executives	11-1000 Summary	2,627.5	2,826.6	199.1	7.6	3.2	235.3	\$ 102,320	—	—	—
Chief executives	11-1011 Line item	308.9	298.2	-10.7	-3.5	22.8	20.1	\$ 181,210	Bachelor's degree	5 years or more	None
General and operations managers	11-1021 Line item	2,263.1	2,469.0	205.9	9.1	0.6	210.8	\$ 99,310	Bachelor's degree	5 years or more	None
Legislators	11-1031 Line item	55.5	59.4	3.9	7.1	—	4.4	\$ 23,470	Bachelor's degree	Less than 5 years	None
managers	11-2000 Summary	708.6	768.2	59.6	8.4	3.3	67.8	\$ 120,420	—	—	—
Advertising and promotions managers	11-2011 Line item	31.3	33.1	1.8	5.8	5.2	3.4	\$ 100,810	Bachelor's degree	Less than 5 years	None
Marketing and sales managers	11-2020 Summary	603.8	654.0	50.2	8.3	3.6	57.5	\$ 122,930	—	—	—
Marketing managers	11-2021 Line item	218.3	240.1	21.8	10.0	3.5	21.3	\$ 131,180	Bachelor's degree	5 years or more	None
Sales managers	11-2022 Line item	385.5	413.9	28.4	7.4	3.6	36.2	\$ 117,960	Bachelor's degree	Less than 5 years	None
Public relations and fundraising managers	11-2031 Line item	73.5	81.1	7.7	10.4	—	6.9	\$ 107,320	Bachelor's degree	5 years or more	None
Operations specialties managers	11-3000 Summary	1,776.1	1,984.8	208.6	11.7	1.4	160.3	\$ 112,080	—	—	—
Administrative services managers	11-3011 Line item	281.7	310.1	28.4	10.1	0.2	26.2	\$ 90,050	Bachelor's degree	Less than 5 years	None
Computer and information systems managers	11-3021 Line item	367.6	411.4	43.8	11.9	0.8	32.5	\$ 135,800	Bachelor's degree	5 years or more	None
Financial managers	11-3031 Line item	580.4	688.8	108.4	18.7	2.6	56.8	\$ 121,750	Bachelor's degree	5 years or more	None
Industrial production managers	11-3051 Line item	170.6	170.3	-0.3	-0.2	1.4	11.7	\$ 97,140	Bachelor's degree	5 years or more	None
Purchasing managers	11-3061 Line item	73.9	78.0	4.1	5.6	1.3	6.3	\$ 111,590	Bachelor's degree	5 years or more	None
Transportation, storage, and distribution managers	11-3071 Line item	115.5	123.3	7.7	6.7	1.1	9.7	\$ 89,190	High school diploma	5 years or more	None
Compensation and benefits managers	11-3111 Line item	15.8	16.6	0.8	5.0	—	1.2	\$ 116,240	Bachelor's degree	5 years or more	None
Human resources managers	11-3121 Line item	136.1	148.3	12.2	8.9	1.5	12.4	\$ 106,910	Bachelor's degree	5 years or more	None
Training and development managers	11-3131 Line item	34.5	38.1	3.6	10.3	—	3.5	\$ 105,830	Bachelor's degree	5 years or more	None
Other management occupations	11-9000 Summary	4,421.0	4,832.0	411.0	9.3	39.7	387.8	\$ 87,420	—	—	—
Farmers, ranchers, and other agricultural managers	11-9013 Line item	1,028.7	1,097.4	68.7	6.7	72.5	84.8	\$ 66,360	High school diploma	5 years or more	None
Construction managers	11-9021 Line item	403.8	449.9	46.1	11.4	37.8	33.4	\$ 89,300	Bachelor's degree	None	Moderate-term on-the-job training
Education administrators	11-9030 Summary	531.6	579.9	48.2	9.1	2.0	45.7	\$ 86,950	—	—	—
center/program school	11-9031 Line item	61.8	68.3	6.5	10.6	4.6	5.4	\$ 45,790	Bachelor's degree	Less than 5 years	None
Education administrators, postsecondary	11-9032 Line item	251.3	271.0	19.7	7.8	0.9	21.2	\$ 92,510	Master's degree	5 years or more	None
Education administrators, all other	11-9033 Line item	180.1	198.1	18.0	10.0	2.5	15.7	\$ 90,760	Master's degree	Less than 5 years	None
Architectural and engineering managers	11-9041 Line item	38.4	42.4	4.0	10.4	3.0	3.4	\$ 78,210	Bachelor's degree	Less than 5 years	None
Food service managers	11-9041 Line item	180.1	190.0	9.9	5.5	—	13.6	\$ 134,730	Bachelor's degree	5 years or more	None
Funeral service managers	11-9051 Line item	308.7	336.0	27.3	8.8	34.0	36.7	\$ 50,820	High school diploma	Less than 5 years	None
Gaming managers	11-9061 Line item	25.7	27.4	1.6	6.4	66.6	2.0	\$ 73,830	Associate's degree	Less than 5 years	None
Lodging managers	11-9071 Line item	4.5	4.6	0.1	2.5	3.0	0.5	\$ 69,180	High school diploma	Less than 5 years	None
Medical and health services managers	11-9081 Line item	47.8	50.6	2.8	5.9	24.3	5.1	\$ 51,840	High school diploma	Less than 5 years	None
Natural sciences managers	11-9111 Line item	352.2	422.0	69.8	19.8	2.6	36.4	\$ 96,540	Bachelor's degree	Less than 5 years	None
Postmasters and mail superintendents	11-9121 Line item	56.7	62.3	5.6	9.9	—	5.2	\$ 119,850	Bachelor's degree	5 years or more	None
Property, real estate, and community association managers	11-9131 Line item	14.2	11.2	-3.0	-20.9	—	0.6	\$ 71,670	High school diploma	Less than 5 years	Moderate-term on-the-job training
Social and community service managers	11-9141 Line item	317.3	351.3	34.0	10.7	41.6	28.4	\$ 57,040	High school diploma	Less than 5 years	None
Emergency management directors	11-9151 Line item	147.3	170.4	23.1	15.7	5.8	15.8	\$ 64,680	Bachelor's degree	Less than 5 years	None
Managers, all other	11-9161 Line item	10.1	10.9	0.8	7.7	—	0.9	\$ 70,500	Bachelor's degree	5 years or more	None
Business and financial operations occupations	11-9199 Line item	992.1	1,068.0	75.8	7.6	56.7	78.7	\$ 104,970	Bachelor's degree	Less than 5 years	None
Business operations specialists	13-0000 Summary	8,066.8	8,817.3	750.4	9.3	5.5	814.3	\$ 66,530	—	—	—
athletes	13-1000 Summary	5,080.8	5,534.7	453.9	8.9	4.3	525.0	\$ 65,260	—	—	—
Buyers and purchasing agents	13-1011 Line item	19.1	20.0	0.9	4.9	21.2	2.3	\$ 62,080	Bachelor's degree	Less than 5 years	None
Buyers and purchasing agents, farm products	13-1020 Summary	446.5	426.0	-20.5	-4.6	3.8	38.7	\$ 60,700	—	—	—
Wholesale and retail buyers, except farm products	13-1021 Line item	13.7	12.9	-0.8	-5.9	4.9	1.4	\$ 58,430	Bachelor's degree	None	Moderate-term on-the-job training
products	13-1022 Line item	123.3	121.0	-2.4	-1.9	11.5	13.4	\$ 53,340	Bachelor's degree	None	Moderate-term on-the-job training
Claims adjusters, appraisers, examiners, and investigators	13-1023 Line item	309.4	292.1	-17.3	-5.6	0.7	23.8	\$ 63,300	Bachelor's degree	None	Moderate-term on-the-job training
Claims adjusters, examiners, and investigators	13-1030 Summary	328.7	325.1	-3.7	-1.1	1.7	26.0	\$ 63,670	—	—	—
Insurance appraisers, auto damage	13-1031 Line item	311.1	306.6	-4.5	-1.5	1.6	24.5	\$ 63,680	High school diploma	None	Long-term on-the-job training
Compliance officers	13-1032 Line item	17.6	18.5	0.9	4.9	2.0	1.5	\$ 63,510	Postsecondary non	None	Moderate-term on-the-job training
Cost estimators	13-1041 Line item	288.3	312.0	23.7	8.2	0.4	25.9	\$ 66,540	Bachelor's degree	None	Moderate-term on-the-job training
Human resources workers	13-1051 Line item	217.9	240.9	23.0	10.6	1.1	24.4	\$ 61,790	Bachelor's degree	None	Moderate-term on-the-job training
Human resources specialists	13-1070 Summary	631.8	664.5	32.6	5.2	0.9	64.7	\$ 59,440	—	—	—
Farm labor contractors	13-1071 Line item	547.8	586.4	38.7	7.1	0.9	57.6	\$ 59,180	Bachelor's degree	None	None
Labor relations specialists	13-1074 Line item	3.0	3.2	0.2	8.0	—	0.3	\$ 35,160	No formal education	Less than 5 years	Short-term on-the-job training
Logisticians	13-1075 Line item	81.1	74.8	-6.3	-7.8	1.0	6.8	\$ 62,310	Bachelor's degree	Less than 5 years	None
Management analysts	13-1081 Line item	148.7	159.0	10.3	6.9	—	15.6	\$ 74,170	Bachelor's degree	None	None
Meeting, convention, and event planners	13-1111 Line item	806.4	902.8	96.5	12.0	17.4	81.3	\$ 81,330	Bachelor's degree	Less than 5 years	None
Fundraisers	13-1121 Line item	116.7	128.5	11.8	10.2	9.5	15.0	\$ 47,350	Bachelor's degree	None	None
	13-1131 Line item	90.4	103.6	13.2	14.6	2.3	10.7	\$ 54,130	Bachelor's degree	None	None

Compensation, benefits, and job analysis specialists	13-1141	Line item	84.2	91.3	7.2	8.5	0.2	7.7	\$ 62,080	Bachelor's degree	Less than 5 years	None
Training and development specialists	13-1151	Line item	282.8	315.3	32.5	11.5	1.2	31.7	\$ 59,020	Bachelor's degree	Less than 5 years	None
Market research analysts and marketing specialists	13-1161	Line item	595.4	731.4	136.0	22.8	3.6	76.7	\$ 62,560	Bachelor's degree	None	None
Business operations specialists, all other	13-1199	Line item	1,023.9	1,114.1	90.2	8.8	0.6	104.2	\$ 69,040	Bachelor's degree	None	None
Financial specialists	13-2000	Summary	2,986.0	3,282.6	296.6	9.9	7.5	289.4	\$ 68,780	—	—	—
Accountants and auditors	13-2011	Line item	1,397.7	1,538.0	140.3	10.0	6.7	141.8	\$ 68,150	Bachelor's degree	None	None
Appraisers and assessors of real estate	13-2021	Line item	80.8	92.4	11.6	14.4	22.6	6.7	\$ 51,850	Bachelor's degree	None	Long-term on-the-job training
Budget analysts	13-2031	Line item	58.4	62.2	3.8	6.5	—	4.8	\$ 73,840	Bachelor's degree	None	None
Credit analysts	13-2041	Line item	73.8	79.9	6.2	8.4	—	6.8	\$ 69,930	Bachelor's degree	None	None
Financial analysts and advisors	13-2050	Summary	672.0	738.0	65.9	9.8	10.8	61.9	\$ 80,940	—	—	—
Financial analysts	13-2051	Line item	296.1	328.2	32.1	10.8	2.1	29.0	\$ 81,760	Bachelor's degree	None	None
Personal financial advisors	13-2052	Line item	271.9	311.2	39.3	14.4	24.3	25.4	\$ 90,530	Bachelor's degree	None	Long-term on-the-job training
Insurance underwriters	13-2053	Line item	104.1	98.6	-5.4	-5.2	—	7.5	\$ 67,680	Bachelor's degree	None	Moderate-term on-the-job training
Financial examiners	13-2061	Line item	52.5	57.6	5.1	9.8	0.9	4.6	\$ 79,280	Bachelor's degree	None	Long-term on-the-job training
Credit counselors and loan officers	13-2070	Summary	357.0	398.8	41.8	11.7	2.6	34.3	\$ 61,030	—	—	—
Credit counselors	13-2071	Line item	38.3	43.7	5.3	13.9	2.1	3.8	\$ 44,380	Bachelor's degree	None	Moderate-term on-the-job training
Loan officers	13-2072	Line item	318.6	355.1	36.5	11.5	2.6	30.5	\$ 63,650	Bachelor's degree	None	Moderate-term on-the-job training
agents	13-2080	Summary	158.0	168.0	10.0	6.3	14.3	15.7	\$ 45,300	—	—	—
Tax examiners and collectors, and revenue agents	13-2081	Line item	62.1	61.7	-0.4	-0.6	—	4.2	\$ 52,060	Bachelor's degree	None	Moderate-term on-the-job training
Tax preparers	13-2082	Line item	95.9	106.3	10.4	10.8	23.6	11.5	\$ 36,550	High school diploma	None	Moderate-term on-the-job training
Financial specialists, all other	13-2099	Line item	135.9	147.8	11.9	8.7	5.0	12.9	\$ 69,470	Bachelor's degree	None	Moderate-term on-the-job training
Computer and mathematical occupations	15-0000	Summary	4,419.0	5,015.3	596.3	13.5	2.6	365.3	\$ 82,830	—	—	—
Computer occupations	15-1100	Summary	4,238.4	4,784.5	546.1	12.9	2.7	347.5	\$ 82,860	—	—	—
Computer and information research scientists	15-1111	Line item	27.9	33.2	5.4	19.2	—	2.5	\$ 111,840	Master's degree	None	None
Computer and information analysts	15-1120	Summary	700.5	782.0	81.5	11.6	1.9	55.2	\$ 87,960	—	—	—
Computer systems analysts	15-1121	Line item	600.5	653.5	53.0	8.8	2.2	44.8	\$ 87,220	Bachelor's degree	None	None
Information security analysts	15-1122	Line item	100.0	128.5	28.4	28.4	0.4	10.4	\$ 92,600	Bachelor's degree	Less than 5 years	None
Software developers and programmers	15-1130	Summary	1,714.0	2,012.3	298.2	17.4	4.0	147.7	\$ 95,830	—	—	—
Computer programmers	15-1131	Line item	294.9	272.3	-22.6	-7.6	5.4	15.4	\$ 79,840	Bachelor's degree	None	None
Software developers, applications	15-1132	Line item	831.3	1,084.6	253.4	30.5	2.1	85.5	\$ 100,080	Bachelor's degree	None	None
Software developers, systems software	15-1133	Line item	425.0	471.0	46.1	10.8	2.2	32.7	\$ 106,860	Bachelor's degree	None	None
Web developers	15-1134	Line item	162.9	184.2	21.3	13.1	16.2	14.2	\$ 66,130	Associate's degree	None	None
architects	15-1140	Summary	673.4	721.4	48.0	7.1	0.3	47.9	\$ 84,970	—	—	—
Database administrators	15-1141	Line item	119.5	133.2	13.7	11.5	0.1	9.3	\$ 84,950	Bachelor's degree	None	None
Network and computer systems administrators	15-1142	Line item	391.3	415.2	23.9	6.1	0.2	27.0	\$ 79,700	Bachelor's degree	None	None
Computer network architects	15-1143	Line item	162.7	173.1	10.4	6.4	0.9	11.7	\$ 101,210	Bachelor's degree	5 years or more	None
Computer support specialists	15-1150	Summary	835.3	922.5	87.1	10.4	2.0	71.8	\$ 52,160	—	—	—
Computer user support specialists	15-1151	Line item	636.6	707.6	71.1	11.2	1.9	55.4	\$ 49,390	Some college, no de	None	None
Computer network support specialists	15-1152	Line item	198.8	214.8	16.1	8.1	2.0	16.5	\$ 62,670	Associate's degree	None	None
Computer occupations, all other	15-1199	Line item	287.2	313.1	25.9	9.0	4.6	22.3	\$ 86,510	Bachelor's degree	None	None
Mathematical science occupations	15-2000	Summary	180.7	230.9	50.2	27.8	0.8	17.8	\$ 81,750	—	—	—
Actuaries	15-2011	Line item	23.6	28.9	5.3	22.5	1.4	2.1	\$ 100,610	Bachelor's degree	None	Long-term on-the-job training
Mathematicians	15-2021	Line item	3.1	4.0	0.9	29.4	1.8	0.3	\$ 105,810	Master's degree	None	None
Operations research analysts	15-2031	Line item	114.0	145.3	31.3	27.4	—	10.7	\$ 79,200	Bachelor's degree	None	None
Statisticians	15-2041	Line item	37.2	49.6	12.4	33.4	2.6	4.4	\$ 80,500	Master's degree	None	None
Miscellaneous mathematical science occupations	15-2090	Summary	2.8	3.1	0.3	10.0	2.2	0.2	\$ 60,290	—	—	—
Mathematical technicians	15-2091	Line item	0.6	0.6	0.0	7.5	—	0.0	\$ 49,660	Bachelor's degree	None	None
Mathematical science occupations, all other	15-2099	Line item	2.2	2.4	0.2	10.7	—	0.2	\$ 65,050	Bachelor's degree	None	None
Architecture and engineering occupations	17-0000	Summary	2,601.0	2,794.2	193.2	7.4	2.7	210.0	\$ 77,900	—	—	—
Architects, surveyors, and cartographers	17-1000	Summary	210.9	225.0	14.1	6.7	15.3	16.6	\$ 70,010	—	—	—
Architects, except naval	17-1010	Summary	153.5	160.2	6.7	4.3	20.1	11.6	\$ 74,850	—	—	—
Architects, except landscape and naval	17-1011	Line item	128.8	133.9	5.1	4.0	20.2	9.7	\$ 76,930	Bachelor's degree	None	Internship/residency
Landscape architects	17-1012	Line item	24.7	26.2	1.5	6.2	19.6	1.9	\$ 63,480	Bachelor's degree	None	Internship/residency
Surveyors, cartographers, and photogrammetrists	17-1020	Summary	57.4	64.8	7.4	13.0	2.2	5.0	\$ 60,200	—	—	—
Cartographers and photogrammetrists	17-1021	Line item	12.6	15.0	2.4	19.4	1.5	1.2	\$ 62,750	Bachelor's degree	None	None
Surveyors	17-1022	Line item	44.8	49.8	5.0	11.2	2.4	3.8	\$ 59,390	Bachelor's degree	None	Internship/residency
Engineers	17-2000	Summary	1,681.0	1,819.7	138.7	8.3	1.5	126.6	\$ 91,010	—	—	—
Aerospace engineers	17-2011	Line item	69.6	73.8	4.2	6.1	—	4.6	\$ 109,650	Bachelor's degree	None	None
Agricultural engineers	17-2021	Line item	2.7	2.9	0.2	8.1	2.8	0.2	\$ 73,640	Bachelor's degree	None	None
Biomedical engineers	17-2031	Line item	21.3	22.8	1.5	7.2	—	1.6	\$ 85,620	Bachelor's degree	None	None
Chemical engineers	17-2041	Line item	32.7	35.2	2.5	7.6	1.3	2.4	\$ 98,340	Bachelor's degree	None	None
Civil engineers	17-2051	Line item	303.5	335.7	32.1	10.6	3.4	25.9	\$ 83,540	Bachelor's degree	None	None
Computer hardware engineers	17-2061	Line item	73.6	77.6	4.0	5.5	—	5.1	\$ 115,080	Bachelor's degree	None	None
Electrical and electronics engineers	17-2070	Summary	324.6	345.8	21.2	6.5	1.2	23.1	\$ 96,270	—	—	—
Electrical engineers	17-2071	Line item	188.3	204.5	16.2	8.6	1.3	13.9	\$ 94,210	Bachelor's degree	None	None
Electronics engineers, except computer	17-2072	Line item	136.3	141.3	5.1	3.7	1.1	9.2	\$ 99,210	Bachelor's degree	None	None
Environmental engineers	17-2081	Line item	53.8	58.3	4.4	8.3	0.4	4.0	\$ 84,890	Bachelor's degree	None	None
Industrial engineers, including health and safety engineers and inspectors	17-2110	Summary	283.8	311.2	27.3	9.6	0.5	21.6	\$ 84,510	—	—	—
Industrial engineers	17-2111	Line item	25.9	28.1	2.2	8.6	0.4	1.9	\$ 86,720	Bachelor's degree	None	None
Industrial engineers	17-2112	Line item	257.9	283.0	25.1	9.7	0.5	19.7	\$ 84,310	Bachelor's degree	None	None
Marine engineers and naval architects	17-2121	Line item	8.2	9.2	1.0	11.5	—	0.6	\$ 93,350	Bachelor's degree	None	None
Materials engineers	17-2131	Line item	27.0	27.5	0.4	1.6	—	1.9	\$ 93,310	Bachelor's degree	None	None



Mechanical engineers	17-2141	Line item	288.8	314.1	25.3	8.8	0.5	21.2	\$ 84,190	Bachelor's degree	None	None
engineers	17-2151	Line item	7.3	7.9	0.5	7.2	5.8	0.6	\$ 93,720	Bachelor's degree	None	None
Nuclear engineers	17-2161	Line item	17.7	18.4	0.7	3.8	—	1.4	\$ 102,220	Bachelor's degree	None	None
Petroleum engineers	17-2171	Line item	33.7	38.6	4.9	14.5	3.6	2.8	\$ 128,230	Bachelor's degree	None	None
Engineers, all other	17-2199	Line item	132.5	140.8	8.2	6.2	4.3	9.5	\$ 97,300	Bachelor's degree	None	None
Drafters, engineering technicians, and mapping technicians	17-3000	Summary	709.2	749.6	40.4	5.7	1.7	66.8	\$ 54,940	—	—	—
Drafters	17-3010	Summary	207.7	222.2	14.5	7.0	1.7	19.4	\$ 53,480	—	—	—
Architectural and civil drafters	17-3011	Line item	99.6	107.7	8.0	8.1	1.7	9.5	\$ 51,640	Associate's degree	None	None
Electrical and electronics drafters	17-3012	Line item	27.4	29.2	1.8	6.7	1.7	2.5	\$ 59,970	Associate's degree	None	None
Mechanical drafters	17-3013	Line item	64.8	68.1	3.3	5.1	1.8	5.9	\$ 54,480	Associate's degree	None	None
Drafters, all other	17-3019	Line item	15.9	17.2	1.3	7.9	1.7	1.5	\$ 50,470	Associate's degree	None	None
Engineering technicians, except drafters	17-3020	Summary	441.3	460.9	19.6	4.4	0.7	40.1	\$ 57,310	—	—	—
Aerospace engineering and operations technicians	17-3021	Line item	12.1	12.9	0.8	6.6	0.8	1.1	\$ 68,020	Associate's degree	None	None
Civil engineering technicians	17-3022	Line item	74.5	81.1	6.6	8.8	0.4	7.2	\$ 49,980	Associate's degree	None	None
Electrical and electronics engineering technicians	17-3023	Line item	137.0	139.8	2.8	2.0	0.7	12.0	\$ 62,190	Associate's degree	None	None
Electro-mechanical technicians	17-3024	Line item	13.8	14.3	0.5	3.5	0.8	1.2	\$ 55,610	Associate's degree	None	None
Environmental engineering technicians	17-3025	Line item	17.0	19.1	2.2	12.9	0.7	1.7	\$ 49,170	Associate's degree	None	None
Industrial engineering technicians	17-3026	Line item	63.9	64.3	0.4	0.6	0.8	5.5	\$ 53,330	Associate's degree	None	None
Mechanical engineering technicians	17-3027	Line item	46.1	48.4	2.3	5.0	0.8	4.2	\$ 54,480	Associate's degree	None	None
Engineering technicians, except drafters, all other	17-3029	Line item	76.8	80.8	4.0	5.2	0.6	7.1	\$ 62,330	Associate's degree	None	None
Surveying and mapping technicians	17-3031	Line item	60.2	66.6	6.4	10.6	9.1	7.2	\$ 42,450	High school diploma	None	Moderate-term on-the-job training
Life, physical, and social science occupations	19-0000	Summary	1,299.5	1,422.4	122.9	9.5	4.9	132.5	\$ 63,340	—	—	—
Life scientists	19-1000	Summary	325.4	357.8	32.4	10.0	2.6	32.4	\$ 71,950	—	—	—
Agricultural and food scientists	19-1010	Summary	43.0	46.2	3.2	7.4	6.9	4.7	\$ 62,920	—	—	—
Animal scientists	19-1011	Line item	6.1	6.4	0.4	6.0	3.2	0.7	\$ 60,330	Bachelor's degree	None	None
Food scientists and technologists	19-1012	Line item	17.0	18.0	1.0	6.0	9.6	1.8	\$ 63,950	Bachelor's degree	None	None
Soil and plant scientists	19-1013	Line item	19.9	21.7	1.8	9.0	5.8	2.2	\$ 62,300	Bachelor's degree	None	None
Biological scientists	19-1020	Summary	112.8	122.7	9.9	8.8	2.0	11.0	\$ 71,890	—	—	—
Biochemists and biophysicists	19-1021	Line item	31.5	35.0	3.6	11.3	3.1	3.2	\$ 82,180	Doctoral or professional degree	None	None
Microbiologists	19-1022	Line item	23.2	25.1	1.9	8.0	2.5	2.2	\$ 66,850	Bachelor's degree	None	None
Zoologists and wildlife biologists	19-1023	Line item	19.4	20.8	1.5	7.5	0.9	1.8	\$ 60,520	Bachelor's degree	None	None
Biological scientists, all other	19-1029	Line item	38.7	41.8	3.1	7.9	1.3	3.7	\$ 74,790	Bachelor's degree	None	None
Conservation scientists and foresters	19-1030	Summary	34.6	36.6	2.1	6.0	2.0	3.1	\$ 60,610	—	—	—
Conservation scientists	19-1031	Line item	22.3	23.8	1.5	6.5	1.9	2.0	\$ 61,810	Bachelor's degree	None	None
Foresters	19-1032	Line item	12.3	12.9	0.6	5.2	2.2	1.1	\$ 58,700	Bachelor's degree	None	None
Medical scientists	19-1040	Summary	126.1	142.5	16.4	13.0	2.0	12.7	\$ 79,730	—	—	—
Epidemiologists	19-1041	Line item	6.1	6.6	0.5	8.7	1.0	0.6	\$ 70,820	Master's degree	None	None
Medical scientists, except epidemiologists	19-1042	Line item	120.0	135.9	15.9	13.2	2.1	12.1	\$ 80,530	Doctoral or professional degree	None	None
Life scientists, all other	19-1099	Line item	8.9	9.7	0.8	9.0	1.5	0.8	\$ 73,860	Bachelor's degree	None	None
Physical scientists	19-2000	Summary	278.2	305.1	26.8	9.6	1.7	27.9	\$ 77,790	—	—	—
Astronomers and physicists	19-2010	Summary	19.9	22.7	2.8	14.0	—	1.9	\$ 114,870	—	—	—
Astronomers	19-2011	Line item	2.0	2.2	0.2	10.0	—	0.2	\$ 104,740	Doctoral or professional degree	None	None
Physicists	19-2012	Line item	17.9	20.5	2.6	14.5	—	1.7	\$ 115,870	Doctoral or professional degree	None	None
Atmospheric and space scientists	19-2021	Line item	10.4	11.7	1.3	12.0	—	0.9	\$ 92,460	Bachelor's degree	None	None
Chemists and materials scientists	19-2030	Summary	96.2	102.5	6.3	6.5	—	9.4	\$ 75,420	—	—	—
Chemists	19-2031	Line item	88.3	94.0	5.7	6.5	—	8.6	\$ 73,740	Bachelor's degree	None	None
Materials scientists	19-2032	Line item	7.9	8.5	0.6	7.1	—	0.8	\$ 99,430	Bachelor's degree	None	None
Environmental scientists and geoscientists	19-2040	Summary	128.2	143.2	15.0	11.7	2.0	13.8	\$ 73,320	—	—	—
Environmental scientists and specialists, including health	19-2041	Line item	89.5	99.3	9.9	11.1	1.8	9.5	\$ 68,910	Bachelor's degree	None	None
Geoscientists, except hydrologists and geographers	19-2042	Line item	32.0	36.5	4.5	13.9	2.7	3.5	\$ 89,780	Bachelor's degree	None	None
Hydrologists	19-2043	Line item	6.7	7.4	0.7	9.9	1.4	0.7	\$ 80,480	Bachelor's degree	None	None
Physical scientists, all other	19-2099	Line item	23.5	25.0	1.5	6.4	9.3	2.0	\$ 96,070	Bachelor's degree	None	None
Social scientists and related workers	19-3000	Summary	303.8	335.6	31.8	10.5	15.4	26.4	\$ 75,280	—	—	—
Economists	19-3011	Line item	21.3	22.5	1.3	6.0	3.6	1.6	\$ 101,050	Master's degree	None	None
Survey researchers	19-3022	Line item	14.6	14.7	0.1	0.9	14.2	1.3	\$ 54,470	Master's degree	None	None
Psychologists	19-3030	Summary	166.6	189.2	22.6	13.6	23.9	13.5	\$ 75,230	—	—	—
Clinical, counseling, and school psychologists	19-3031	Line item	147.5	168.4	20.9	14.2	24.4	12.1	\$ 73,270	Doctoral or professional degree	None	Internship/residency
Industrial-organizational psychologists	19-3032	Line item	1.7	1.8	0.1	5.6	37.2	0.1	\$ 82,760	Master's degree	None	Internship/residency
Psychologists, all other	19-3039	Line item	17.4	19.0	1.6	9.1	18.3	1.3	\$ 95,710	Master's degree	None	Internship/residency
Sociologists	19-3041	Line item	3.5	3.5	0.0	0.1	10.9	0.3	\$ 79,750	Master's degree	None	None
Urban and regional planners	19-3051	Line item	36.0	40.6	4.6	12.8	—	3.5	\$ 70,020	Master's degree	None	None
Miscellaneous social scientists and related workers	19-3090	Summary	61.9	65.0	3.2	5.1	6.3	6.0	\$ 77,020	—	—	—
Anthropologists and archeologists	19-3091	Line item	7.6	7.9	0.3	3.3	11.0	0.7	\$ 63,190	Master's degree	None	None
Geographers	19-3092	Line item	1.5	1.6	0.1	6.2	4.9	0.2	\$ 74,260	Bachelor's degree	None	None
Historians	19-3093	Line item	3.3	3.5	0.2	5.4	5.4	0.3	\$ 55,110	Master's degree	None	None
Political scientists	19-3094	Line item	7.3	7.4	0.2	2.1	6.7	0.7	\$ 114,290	Master's degree	None	None
Social scientists and related workers, all other	19-3099	Line item	42.1	44.6	2.5	5.9	5.5	4.1	\$ 77,020	Bachelor's degree	None	None
Life, physical, and social science technicians	19-4000	Summary	392.1	424.0	31.9	8.1	1.0	45.9	\$ 44,250	—	—	—
Agricultural and food science technicians	19-4011	Line item	27.5	29.2	1.7	6.3	—	3.0	\$ 37,550	Associate's degree	None	Moderate-term on-the-job training
Biological technicians	19-4021	Line item	82.1	90.4	8.4	10.2	—	8.9	\$ 42,520	Bachelor's degree	None	None
Chemical technicians	19-4031	Line item	67.3	69.9	2.7	3.9	1.5	6.6	\$ 45,840	Associate's degree	None	Moderate-term on-the-job training
Geological and petroleum technicians	19-4041	Line item	15.0	17.4	2.5	16.4	—	1.9	\$ 56,470	Associate's degree	None	Moderate-term on-the-job training

Nuclear technicians	19-4051	Line item	6.9	6.9	0.0	0.6	2.8	0.8	\$ 79,140	Associate's degree	None	Moderate-term on-the-job training
Social science research assistants	19-4061	Line item	34.0	35.4	1.4	4.1	1.7	4.1	\$ 43,190	Bachelor's degree	None	None
Miscellaneous life, physical, and social science technicians including health	19-4090	Summary	159.3	174.6	15.3	9.6	1.2	20.7	\$ 44,190	—	—	—
Forensic science technicians	19-4091	Line item	34.6	38.8	4.1	11.9	1.9	4.6	\$ 44,190	Associate's degree	None	None
Forest and conservation technicians	19-4092	Line item	15.4	18.0	2.6	16.8	—	2.2	\$ 56,750	Bachelor's degree	None	Moderate-term on-the-job training
Life, physical, and social science technicians, all other	19-4093	Line item	33.2	34.5	1.3	3.8	—	4.0	\$ 35,560	Associate's degree	None	None
Life, physical, and social science technicians, all other	19-4099	Line item	76.1	83.4	7.3	9.6	1.6	9.9	\$ 46,040	Associate's degree	None	None
Community and social service occupations	21-0000	Summary	2,570.7	2,917.9	347.2	13.5	2.6	327.0	\$ 42,990	—	—	—
service specialists	21-1000	Summary	2,126.4	2,439.1	312.7	14.7	2.9	270.7	\$ 43,020	—	—	—
Counselors	21-1010	Summary	744.5	853.5	109.1	14.7	5.7	92.5	\$ 45,970	—	—	—
Substance abuse and behavioral disorder counselors	21-1011	Line item	102.4	122.8	20.4	19.9	7.8	13.5	\$ 41,070	Bachelor's degree	None	None
Educational, guidance, school, and vocational counselors	21-1012	Line item	291.7	324.7	33.0	11.3	3.0	34.8	\$ 54,560	Master's degree	None	None
Marriage and family therapists	21-1013	Line item	41.5	49.9	8.4	20.2	7.5	5.5	\$ 49,170	Master's degree	None	Internship/residency
Mental health counselors	21-1014	Line item	157.7	188.9	31.2	19.8	8.0	20.8	\$ 42,840	Master's degree	None	Internship/residency
Rehabilitation counselors	21-1015	Line item	119.3	130.9	11.6	9.7	6.9	13.9	\$ 34,670	Master's degree	None	None
Counselors, all other	21-1019	Line item	31.8	36.3	4.5	14.3	5.5	3.9	\$ 44,350	Master's degree	None	None
Social workers	21-1020	Summary	682.1	784.2	102.1	15.0	2.4	83.2	\$ 46,890	—	—	—
Child, family, and school social workers	21-1021	Line item	317.6	359.7	42.1	13.3	2.0	37.9	\$ 43,250	Bachelor's degree	None	None
Healthcare social workers	21-1022	Line item	176.5	209.3	32.7	18.5	3.3	22.5	\$ 53,760	Master's degree	None	Internship/residency
Mental health and substance abuse social workers	21-1023	Line item	123.9	146.1	22.2	17.9	3.0	15.7	\$ 42,700	Master's degree	None	Internship/residency
Social workers, all other	21-1029	Line item	64.0	69.0	5.0	7.9	1.0	7.1	\$ 60,230	Bachelor's degree	None	None
Miscellaneous community and social service specialists	21-1090	Summary	699.9	801.5	101.6	14.5	0.4	95.0	\$ 36,970	—	—	—
Health educators	21-1091	Line item	61.0	69.9	8.8	14.5	—	8.7	\$ 53,070	Bachelor's degree	None	None
Probation officers and correctional treatment specialists	21-1092	Line item	91.3	96.5	5.2	5.7	—	8.3	\$ 50,160	Bachelor's degree	None	Short-term on-the-job training
Social and human service assistants	21-1093	Line item	389.8	453.7	63.9	16.4	0.7	55.4	\$ 31,810	High school diploma	None	Short-term on-the-job training
Community health workers	21-1094	Line item	57.5	67.8	10.4	18.1	—	8.5	\$ 37,330	High school diploma	None	Short-term on-the-job training
Community and social service specialists, all other	21-1099	Line item	100.3	113.5	13.2	13.2	—	14.1	\$ 43,120	Bachelor's degree	None	None
Religious workers	21-2000	Summary	444.2	478.7	34.5	7.8	1.2	56.3	\$ 42,220	—	—	—
Clergy	21-2011	Line item	243.9	263.6	19.6	8.0	0.6	29.2	\$ 45,740	Bachelor's degree	None	Moderate-term on-the-job training
Directors, religious activities and education	21-2021	Line item	147.1	157.8	10.8	7.3	2.5	19.4	\$ 38,610	Bachelor's degree	Less than 5 years	None
Religious workers, all other	21-2099	Line item	53.2	57.3	4.1	7.7	—	7.7	\$ 28,820	Bachelor's degree	None	None
Legal occupations	23-0000	Summary	1,283.3	1,409.1	125.8	9.8	14.4	91.9	\$ 79,650	—	—	—
Lawyers, judges, and related workers	23-1000	Summary	858.2	936.9	78.7	9.2	19.0	45.2	\$ 115,050	—	—	—
Lawyers and judicial law clerks	23-1010	Summary	806.5	882.2	75.6	9.4	20.1	42.7	\$ 116,250	—	—	—
Lawyers	23-1011	Line item	792.5	867.4	74.8	9.4	20.4	41.9	\$ 118,160	Doctoral or professional degree	None	None
Judicial law clerks	23-1012	Line item	14.0	14.8	0.8	5.5	—	0.8	\$ 51,760	Doctoral or professional degree	None	None
Judges, magistrates, and other judicial workers	23-1020	Summary	51.7	54.7	3.1	6.0	2.4	2.5	\$ 100,960	—	—	—
officers	23-1021	Line item	15.4	16.0	0.6	4.0	—	0.7	\$ 92,110	Doctoral or professional degree	5 years or more	Short-term on-the-job training
Arbitrators, mediators, and conciliators	23-1022	Line item	7.8	8.7	0.9	11.3	15.5	0.4	\$ 59,770	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
Judges, magistrate judges, and magistrates	23-1023	Line item	28.4	30.0	1.6	5.6	—	1.4	\$ 125,880	Doctoral or professional degree	5 years or more	Short-term on-the-job training
Legal support workers	23-2000	Summary	425.1	472.2	47.1	11.1	5.2	46.7	\$ 49,560	—	—	—
Paralegals and legal assistants	23-2011	Line item	285.6	327.4	41.8	14.6	1.9	34.7	\$ 49,500	Associate's degree	None	None
Miscellaneous legal support workers	23-2090	Summary	139.5	144.7	5.3	3.8	12.1	12.0	\$ 49,780	—	—	—
Court reporters	23-2091	Line item	19.6	20.3	0.6	3.3	7.0	1.7	\$ 51,320	Postsecondary nondegree certificate	None	Short-term on-the-job training
Title examiners, abstractors, and searchers	23-2093	Line item	69.0	71.7	2.8	4.0	17.0	6.0	\$ 45,800	High school diploma	None	Moderate-term on-the-job training
Legal support workers, all other	23-2099	Line item	50.9	52.7	1.8	3.6	7.5	4.4	\$ 54,650	Associate's degree	None	None
Education, training, and library occupations	25-0000	Summary	9,426.5	10,303.4	876.8	9.3	1.9	916.7	\$ 48,000	—	—	—
Postsecondary teachers	25-1000	Summary	1,871.4	2,107.9	236.6	12.6	0.3	172.4	\$ 66,500	—	—	—
Business teachers, postsecondary	25-1011	Line item	104.2	123.0	18.9	18.1	0.3	10.4	\$ 77,490	Doctoral or professional degree	None	None
Math and computer teachers, postsecondary	25-1020	Summary	100.6	109.4	8.8	8.8	0.2	8.7	\$ 72,510	—	—	—
Computer science teachers, postsecondary	25-1021	Line item	39.7	42.8	3.2	8.0	0.3	3.4	\$ 77,570	Doctoral or professional degree	None	None
Mathematical science teachers, postsecondary	25-1022	Line item	60.9	66.6	5.6	9.2	0.2	5.3	\$ 69,520	Doctoral or professional degree	None	None
Engineering and architecture teachers, postsecondary	25-1030	Summary	57.1	65.0	7.9	13.9	0.2	5.4	\$ 94,720	—	—	—
Architecture teachers, postsecondary	25-1031	Line item	9.5	10.5	1.0	10.6	—	0.8	\$ 79,250	Doctoral or professional degree	None	None
Engineering teachers, postsecondary	25-1032	Line item	47.6	54.6	6.9	14.5	0.2	4.5	\$ 97,530	Doctoral or professional degree	None	None
Life sciences teachers, postsecondary	25-1040	Summary	77.1	87.6	10.5	13.7	0.2	7.2	\$ 79,180	—	—	—
Agricultural sciences teachers, postsecondary	25-1041	Line item	12.6	13.6	0.9	7.5	—	1.1	\$ 91,580	Doctoral or professional degree	None	None
Biological science teachers, postsecondary	25-1042	Line item	62.3	71.7	9.4	15.1	0.3	6.0	\$ 76,650	Doctoral or professional degree	None	None
postsecondary	25-1043	Line item	2.2	2.3	0.2	7.7	—	0.2	\$ 85,880	Doctoral or professional degree	None	None
Physical sciences teachers, postsecondary	25-1050	Summary	64.0	70.2	6.3	9.8	0.3	5.6	\$ 80,510	—	—	—
teachers, postsecondary	25-1051	Line item	13.1	14.4	1.3	9.5	—	1.2	\$ 85,410	Doctoral or professional degree	None	None
Chemistry teachers, postsecondary	25-1052	Line item	26.3	28.9	2.6	9.9	0.3	2.3	\$ 76,750	Doctoral or professional degree	None	None
Environmental science teachers, postsecondary	25-1053	Line item	6.9	7.6	0.7	9.6	—	0.6	\$ 78,340	Doctoral or professional degree	None	None
Physics teachers, postsecondary	25-1054	Line item	17.6	19.4	1.8	10.0	—	1.6	\$ 84,570	Doctoral or professional degree	None	None
Social sciences teachers, postsecondary	25-1060	Summary	141.3	158.0	16.7	11.8	0.3	12.9	\$ 76,130	—	—	—
Anthropology and archeology teachers, postsecondary	25-1061	Line item	7.1	7.8	0.7	10.0	—	0.6	\$ 81,350	Doctoral or professional degree	None	None
Area, ethnic, and cultural studies teachers, postsecondary	25-1062	Line item	11.5	12.7	1.2	10.5	—	1.0	\$ 73,020	Doctoral or professional degree	None	None
Economics teachers, postsecondary	25-1063	Line item	16.5	18.2	1.8	10.6	0.3	1.5	\$ 95,770	Doctoral or professional degree	None	None
Geography teachers, postsecondary	25-1064	Line item	5.0	5.4	0.4	8.4	—	0.4	\$ 76,810	Doctoral or professional degree	None	None
Political science teachers, postsecondary	25-1065	Line item	21.2	23.4	2.2	10.5	0.3	1.9	\$ 79,210	Doctoral or professional degree	None	None
Psychology teachers, postsecondary	25-1066	Line item	46.9	54.0	7.1	15.1	0.3	4.5	\$ 73,140	Doctoral or professional degree	None	None
Sociology teachers, postsecondary	25-1067	Line item	17.9	19.6	1.7	9.8	—	1.6	\$ 71,840	Doctoral or professional degree	None	None

Social sciences teachers, postsecondary, all other	25-1069	Line item	15.3	16.8	1.5	10.0	—	1.3	\$ 70,740	Doctoral or professi	None	None
Health teachers, postsecondary	25-1070	Summary	301.4	378.2	76.8	25.5	0.3	33.1	\$ 87,900	—	—	—
Health specialties teachers, postsecondary	25-1071	Line item	233.5	294.0	60.5	25.9	0.3	25.8	\$ 99,360	Doctoral or professi	Less than 5 years	None
Nursing instructors and teachers, postsecondary	25-1072	Line item	67.9	84.2	16.3	24.0	0.3	7.3	\$ 69,130	Doctoral or professi	Less than 5 years	None
Education and library science teachers, postsecondary	25-1080	Summary	80.5	88.7	8.2	10.2	0.3	7.1	\$ 63,040	—	—	—
Education teachers, postsecondary	25-1081	Line item	74.5	82.2	7.7	10.3	0.3	6.6	\$ 62,520	Doctoral or professi	Less than 5 years	None
Library science teachers, postsecondary	25-1082	Line item	6.0	6.5	0.5	9.0	—	0.5	\$ 68,410	Doctoral or professi	None	None
postsecondary	25-1110	Summary	53.4	59.6	6.2	11.7	0.3	4.8	\$ 71,490	—	—	—
postsecondary	25-1111	Line item	17.3	19.4	2.2	12.5	—	1.6	\$ 59,590	Doctoral or professi	None	None
Law teachers, postsecondary	25-1112	Line item	21.2	23.8	2.6	12.2	0.5	1.9	\$ 111,210	Doctoral or professi	Less than 5 years	None
Social work teachers, postsecondary	25-1113	Line item	14.9	16.3	1.5	9.9	—	1.3	\$ 64,030	Doctoral or professi	None	None
postsecondary	25-1120	Summary	334.9	372.1	37.2	11.1	0.3	30.1	\$ 66,630	—	—	—
Art, drama, and music teachers, postsecondary	25-1121	Line item	122.5	137.2	14.7	12.0	0.4	11.2	\$ 68,650	Master's degree	None	None
Communications teachers, postsecondary	25-1122	Line item	34.1	37.5	3.4	10.0	0.3	3.0	\$ 65,640	Doctoral or professi	None	None
English language and literature teachers, postsecondary	25-1123	Line item	84.6	92.9	8.3	9.8	0.2	7.5	\$ 63,730	Doctoral or professi	None	None
Foreign language and literature teachers, postsecondary	25-1124	Line item	35.0	39.1	4.1	11.8	0.4	3.2	\$ 63,500	Doctoral or professi	None	None
History teachers, postsecondary	25-1125	Line item	26.9	29.7	2.8	10.3	0.3	2.4	\$ 71,820	Doctoral or professi	None	None
Philosophy and religion teachers, postsecondary	25-1126	Line item	31.8	35.7	3.9	12.3	0.5	2.9	\$ 68,360	Doctoral or professi	None	None
Miscellaneous postsecondary teachers	25-1190	Summary	557.0	596.0	39.0	7.0	0.2	47.0	\$ 49,060	—	—	—
Graduate teaching assistants	25-1191	Line item	168.3	181.2	12.9	7.7	0.1	14.4	\$ 34,240	Bachelor's degree	None	None
Home economics teachers, postsecondary	25-1192	Line item	3.5	3.8	0.3	7.8	—	0.3	\$ 69,190	Master's degree	None	None
Recreation and fitness studies teachers, postsecondary	25-1193	Line item	20.6	22.6	2.0	9.6	—	1.8	\$ 59,180	Doctoral or professi	None	None
Vocational education teachers, postsecondary	25-1194	Line item	128.0	129.7	1.7	1.3	0.4	9.8	\$ 50,660	Bachelor's degree	Less than 5 years	None
Postsecondary teachers, all other	25-1199	Line item	236.5	258.7	22.2	9.4	0.2	20.7	\$ 64,400	Doctoral or professi	None	None
teachers	25-2000	Summary	4,264.8	4,598.6	333.8	7.8	0.1	358.7	\$ 54,720	—	—	—
Preschool and kindergarten teachers	25-2010	Summary	633.0	695.3	62.3	9.8	0.8	70.3	\$ 34,010	—	—	—
Preschool teachers, except special education	25-2011	Line item	478.5	528.6	50.1	10.5	1.0	53.6	\$ 28,790	Associate's degree	None	None
Kindergarten teachers, except special education	25-2012	Line item	154.4	166.7	12.2	7.9	0.2	16.7	\$ 52,620	Bachelor's degree	None	None
Elementary and middle school teachers	25-2020	Summary	2,053.9	2,206.2	152.3	7.4	—	164.4	\$ 56,100	—	—	—
Elementary school teachers, except special education	25-2021	Line item	1,410.9	1,514.9	104.1	7.4	—	112.8	\$ 55,800	Bachelor's degree	None	None
career/technical education	25-2022	Line item	630.3	677.7	47.3	7.5	—	50.5	\$ 56,720	Bachelor's degree	None	None
Career/technical education teachers, middle school	25-2023	Line item	12.7	13.6	0.9	7.3	—	1.0	\$ 57,560	Bachelor's degree	Less than 5 years	None
Secondary school teachers	25-2030	Summary	1,097.4	1,179.2	81.8	7.5	—	85.5	\$ 57,980	—	—	—
career/technical education	25-2031	Line item	1,018.7	1,095.5	76.8	7.5	—	79.5	\$ 58,030	Bachelor's degree	None	None
Career/technical education teachers, secondary school	25-2032	Line item	78.7	83.7	5.0	6.4	—	6.0	\$ 57,320	Bachelor's degree	Less than 5 years	None
Special education teachers	25-2050	Summary	480.6	517.9	37.3	7.8	—	38.5	\$ 57,630	—	—	—
Special education teachers, preschool	25-2051	Line item	29.2	32.5	3.3	11.2	—	2.5	\$ 52,460	Bachelor's degree	None	None
school	25-2052	Line item	188.9	202.8	13.9	7.4	—	15.0	\$ 57,040	Bachelor's degree	None	None
Special education teachers, middle school	25-2053	Line item	89.3	95.7	6.3	7.1	—	7.1	\$ 58,560	Bachelor's degree	None	None
Special education teachers, secondary school	25-2054	Line item	131.9	141.6	9.7	7.4	—	10.5	\$ 59,700	Bachelor's degree	None	None
Special education teachers, all other	25-2059	Line item	41.3	45.4	4.1	9.8	—	3.4	\$ 53,860	Bachelor's degree	None	None
Other teachers and instructors	25-3000	Summary	1,416.2	1,557.6	141.4	10.0	11.0	174.3	\$ 31,910	—	—	—
and instructors	25-3011	Line item	68.2	64.3	-3.8	-5.6	7.8	6.8	\$ 50,650	Bachelor's degree	None	None
Self-enrichment education teachers	25-3021	Line item	354.2	406.9	52.7	14.9	19.8	46.3	\$ 37,330	High school diploma	Less than 5 years	None
Teachers and instructors, all other	25-3099	Line item	993.9	1,086.4	92.5	9.3	8.1	121.3	\$ 30,110	Bachelor's degree	None	None
Librarians, curators, and archivists	25-4000	Summary	268.4	293.9	25.5	9.5	0.2	32.6	\$ 46,610	—	—	—
Archivists, curators, and museum technicians	25-4010	Summary	31.0	35.1	4.2	13.4	1.4	3.7	\$ 47,230	—	—	—
Archivists	25-4011	Line item	6.8	7.8	1.0	14.3	1.3	0.8	\$ 50,500	Master's degree	None	None
Curators	25-4012	Line item	12.4	14.1	1.7	14.0	1.6	1.5	\$ 53,360	Master's degree	None	None
Museum technicians and conservators	25-4013	Line item	11.8	13.3	1.5	12.4	1.4	1.4	\$ 40,040	Bachelor's degree	None	None
Librarians	25-4021	Line item	138.2	150.6	12.4	8.9	—	14.5	\$ 57,680	Master's degree	None	None
Library technicians	25-4031	Line item	99.2	108.2	9.0	9.1	—	14.4	\$ 32,890	Postsecondary nond	None	None
Other education, training, and library occupations	25-9000	Summary	1,605.7	1,745.3	139.6	8.7	0.6	178.6	\$ 27,500	—	—	—
Audio-visual and multimedia collections specialists	25-9011	Line item	11.3	12.3	1.0	8.7	2.2	1.1	\$ 47,840	Bachelor's degree	Less than 5 years	None
Farm and home management advisors	25-9021	Line item	10.4	11.2	0.8	7.3	1.4	1.0	\$ 49,490	Master's degree	None	None
Instructional coordinators	25-9031	Line item	163.2	179.7	16.5	10.1	3.5	16.8	\$ 62,460	Master's degree	5 years or more	None
Teacher assistants	25-9041	Line item	1,308.1	1,417.6	109.5	8.4	0.1	147.9	\$ 25,410	Some college, no de	None	None
Education, training, and library workers, all other	25-9099	Line item	112.7	124.5	11.8	10.5	2.8	11.7	\$ 42,600	Bachelor's degree	None	None
Arts, design, entertainment, sports, and media occupations	27-0000	Summary	2,772.9	2,946.5	173.6	6.3	25.2	289.7	\$ 47,190	—	—	—
Art and design workers	27-1000	Summary	833.7	874.8	41.1	4.9	29.1	79.2	\$ 44,410	—	—	—
Artists and related workers	27-1010	Summary	217.4	235.8	18.4	8.5	58.2	19.5	\$ 70,080	—	—	—
Art directors	27-1011	Line item	90.3	97.0	6.7	7.4	59.4	8.0	\$ 89,820	Bachelor's degree	5 years or more	None
Craft artists	27-1012	Line item	12.5	13.3	0.8	6.3	59.9	1.1	\$ 33,440	No formal education	None	Long-term on-the-job training
Fine artists, including painters, sculptors, and illustrators	27-1013	Line item	28.0	30.4	2.4	8.6	58.6	2.5	\$ 50,790	Bachelor's degree	None	Long-term on-the-job training
Multimedia artists and animators	27-1014	Line item	73.7	81.3	7.7	10.4	59.0	6.8	\$ 65,300	Bachelor's degree	None	None
Artists and related workers, all other	27-1019	Line item	12.8	13.7	0.9	6.9	42.8	1.1	\$ 61,360	No formal education	None	Long-term on-the-job training
Designers	27-1020	Summary	616.3	639.0	22.7	3.7	18.8	59.7	\$ 40,800	—	—	—
Commercial and industrial designers	27-1021	Line item	39.7	41.6	2.0	5.0	19.2	3.9	\$ 67,790	Bachelor's degree	None	None
Fashion designers	27-1022	Line item	23.8	24.5	0.7	3.1	19.2	2.3	\$ 65,170	Bachelor's degree	None	None
Floral designers	27-1023	Line item	55.0	51.7	-3.2	-5.9	19.1	4.6	\$ 25,850	High school diploma	None	Moderate-term on-the-job training
Graphic designers	27-1024	Line item	266.3	278.8	12.5	4.7	18.2	26.2	\$ 47,640	Bachelor's degree	None	None
Interior designers	27-1025	Line item	66.5	69.8	3.3	4.9	18.9	6.6	\$ 49,810	Bachelor's degree	None	None

Merchandise displayers and window trimmers	27-1026	Line item	141.4	146.8	5.3	3.8	19.4	13.7	\$ 26,700	High school diploma	None	Short-term on-the-job training
Set and exhibit designers	27-1027	Line item	14.6	16.2	1.6	10.9	18.2	1.6	\$ 50,990	Bachelor's degree	None	None
Designers, all other	27-1029	Line item	9.0	9.5	0.6	6.4	18.8	0.9	\$ 53,380	Bachelor's degree	None	None
Entertainers and performers, sports and related workers	27-2000	Summary	801.9	882.0	80.1	10.0	21.0	99.9	\$ 40,870	—	—	—
Actors, producers, and directors	27-2010	Summary	198.5	222.1	23.6	11.9	19.2	21.4	\$ 62,850	—	—	—
Actors	27-2011	Line item	63.8	71.3	7.5	11.7	25.8	7.4	—	Some college, no degree	None	Long-term on-the-job training
Producers and directors	27-2012	Line item	134.7	150.8	16.1	12.0	16.0	14.0	\$ 70,950	Bachelor's degree	Less than 5 years	None
Athletes, coaches, umpires, and related workers	27-2020	Summary	309.0	346.6	37.5	12.1	10.1	46.8	\$ 31,440	—	—	—
Athletes and sports competitors	27-2021	Line item	11.8	12.7	0.8	7.2	14.8	1.7	\$ 47,710	No formal education	None	Long-term on-the-job training
Coaches and scouts	27-2022	Line item	276.1	311.2	35.1	12.7	10.0	42.0	\$ 31,460	Bachelor's degree	None	None
Umpires, referees, and other sports officials	27-2023	Line item	21.1	22.7	1.6	7.4	8.8	3.0	\$ 25,660	High school diploma	None	Moderate-term on-the-job training
Dancers and choreographers	27-2030	Summary	20.4	21.3	0.9	4.4	26.7	2.8	\$ 35,060	—	—	—
Dancers	27-2031	Line item	13.5	14.1	0.7	5.0	26.8	1.9	—	No formal education	None	Long-term on-the-job training
Choreographers	27-2032	Line item	6.9	7.1	0.2	3.2	26.4	1.0	\$ 48,240	High school diploma	5 years or more	Long-term on-the-job training
Musicians, singers, and related workers	27-2040	Summary	247.3	263.2	15.9	6.4	32.4	25.7	—	—	—	—
Music directors and composers	27-2041	Line item	74.8	79.4	4.6	6.1	25.8	7.8	\$ 50,110	Bachelor's degree	Less than 5 years	None
Musicians and singers	27-2042	Line item	172.4	183.8	11.3	6.6	35.3	18.0	—	No formal education	None	Long-term on-the-job training
Media and communication workers	27-3000	Summary	774.8	820.1	45.3	5.8	21.0	78.5	\$ 54,780	—	—	—
Announcers	27-3010	Summary	52.7	48.5	-4.1	-7.8	29.8	4.4	\$ 30,830	—	—	—
Radio and television announcers	27-3011	Line item	41.3	36.8	-4.5	-10.9	29.8	3.3	\$ 31,400	Bachelor's degree	None	None
Public address system and other announcers	27-3012	Line item	11.4	11.8	0.4	3.2	29.8	1.1	\$ 28,940	High school diploma	None	Short-term on-the-job training
News analysts, reporters and correspondents	27-3020	Summary	50.4	45.6	-4.8	-9.6	11.3	4.2	\$ 38,870	—	—	—
Broadcast news analysts	27-3021	Line item	5.7	5.6	-0.1	-1.0	11.1	0.5	\$ 56,680	Bachelor's degree	None	None
Reporters and correspondents	27-3022	Line item	44.7	40.0	-4.8	-10.7	11.3	3.6	\$ 37,820	Bachelor's degree	None	None
Public relations specialists	27-3031	Line item	259.6	283.0	23.3	9.0	2.5	28.3	\$ 58,020	Bachelor's degree	None	None
Writers and editors	27-3040	Summary	311.0	327.6	16.6	5.3	35.7	30.7	\$ 61,550	—	—	—
Editors	27-3041	Line item	127.4	127.3	-0.1	-0.1	20.0	12.3	\$ 57,210	Bachelor's degree	Less than 5 years	None
Technical writers	27-3042	Line item	52.4	58.1	5.7	10.9	3.1	5.7	\$ 69,850	Bachelor's degree	Less than 5 years	Short-term on-the-job training
Writers and authors	27-3043	Line item	131.2	142.2	11.0	8.3	63.9	12.7	\$ 61,240	Bachelor's degree	None	Long-term on-the-job training
Miscellaneous media and communication workers	27-3090	Summary	101.1	115.4	14.3	14.1	23.5	11.0	\$ 45,460	—	—	—
Interpreters and translators	27-3091	Line item	68.2	79.6	11.4	16.7	21.6	7.7	\$ 46,120	Bachelor's degree	None	None
Media and communication workers, all other	27-3099	Line item	32.9	35.8	2.9	8.7	27.6	3.3	\$ 43,600	High school diploma	None	Short-term on-the-job training
Media and communication equipment workers	27-4000	Summary	362.5	369.6	7.1	2.0	34.4	32.1	\$ 45,680	—	—	—
operators	27-4010	Summary	135.3	146.0	10.7	7.9	9.7	13.7	\$ 42,590	—	—	—
Audio and video equipment technicians	27-4011	Line item	83.3	94.0	10.7	12.9	9.4	9.0	\$ 42,230	Postsecondary non-degree certificate	None	Short-term on-the-job training
Broadcast technicians	27-4012	Line item	34.0	32.9	-1.1	-3.2	10.2	2.9	\$ 38,550	Associate's degree	None	Short-term on-the-job training
Radio operators	27-4013	Line item	0.9	0.9	0.0	-1.0	—	0.1	\$ 46,250	High school diploma	None	Short-term on-the-job training
Sound engineering technicians	27-4014	Line item	17.0	18.1	1.1	6.3	10.8	1.7	\$ 53,680	Postsecondary non-degree certificate	None	Short-term on-the-job training
Photographers	27-4021	Line item	147.3	134.9	-12.4	-8.4	68.2	9.7	\$ 34,070	High school diploma	None	Long-term on-the-job training
editors	27-4030	Summary	59.3	66.5	7.2	12.1	15.9	6.5	\$ 59,040	—	—	—
Camera operators, television, video, and motion picture	27-4031	Line item	25.1	26.7	1.6	6.4	15.3	2.6	\$ 55,080	Bachelor's degree	None	None
Film and video editors	27-4032	Line item	34.2	39.8	5.6	16.3	16.3	4.0	\$ 62,760	Bachelor's degree	None	None
Media and communication equipment workers, all other	27-4099	Line item	20.6	22.2	1.6	7.9	7.8	2.1	\$ 75,700	High school diploma	None	Short-term on-the-job training
Healthcare practitioners and technical occupations	29-0000	Summary	8,751.5	10,082.4	1,330.9	15.2	2.7	624.3	\$ 63,420	—	—	—
Health diagnosing and treating practitioners	29-1000	Summary	5,485.4	6,376.7	891.3	16.2	3.8	355.3	\$ 77,980	—	—	—
Chiropractors	29-1011	Line item	47.4	52.4	5.0	10.5	30.1	1.7	\$ 67,520	Doctoral or professional degree	None	None
Dentists	29-1020	Summary	153.5	179.9	26.4	17.2	19.3	7.0	\$ 159,770	—	—	—
Dentists, general	29-1021	Line item	132.8	156.0	23.2	17.5	19.6	6.1	\$ 153,900	Doctoral or professional degree	None	None
Oral and maxillofacial surgeons	29-1022	Line item	6.8	7.9	1.2	17.2	19.8	0.3	≥\$208,000	Doctoral or professional degree	None	Internship/residency
Orthodontists	29-1023	Line item	6.6	7.7	1.1	17.3	19.9	0.3	≥\$208,000	Doctoral or professional degree	None	Internship/residency
Prosthodontists	29-1024	Line item	0.9	1.1	0.2	17.2	19.9	0.0	\$ 126,050	Doctoral or professional degree	None	Internship/residency
Dentists, all other specialists	29-1029	Line item	6.4	7.2	0.8	12.0	12.6	0.3	\$ 173,000	Doctoral or professional degree	None	Internship/residency
Dietitians and nutritionists	29-1031	Line item	68.0	77.6	9.6	14.1	6.4	5.3	\$ 58,920	Bachelor's degree	None	Internship/residency
Optometrists	29-1041	Line item	40.2	47.1	7.0	17.3	8.5	2.0	\$ 106,140	Doctoral or professional degree	None	None
Pharmacists	29-1051	Line item	312.5	330.1	17.6	5.6	1.0	15.3	\$ 122,230	Doctoral or professional degree	None	None
Physicians and surgeons	29-1060	Summary	713.8	820.3	106.5	14.9	6.7	30.4	≥\$208,000	—	—	—
Anesthesiologists	29-1061	Line item	33.0	38.9	5.9	17.8	7.7	1.5	≥\$208,000	Doctoral or professional degree	None	Internship/residency
Family and general practitioners	29-1062	Line item	134.8	157.1	22.2	16.5	7.0	6.0	\$ 190,490	Doctoral or professional degree	None	Internship/residency
Internists, general	29-1063	Line item	49.8	58.2	8.4	16.9	7.4	2.2	\$ 196,380	Doctoral or professional degree	None	Internship/residency
Obstetricians and gynecologists	29-1064	Line item	21.7	25.5	3.9	17.9	7.6	1.0	≥\$208,000	Doctoral or professional degree	None	Internship/residency
Pediatricians, general	29-1065	Line item	29.6	34.8	5.3	17.8	7.5	1.4	\$ 168,990	Doctoral or professional degree	None	Internship/residency
Psychiatrists	29-1066	Line item	27.5	31.2	3.6	13.1	6.1	1.1	\$ 194,740	Doctoral or professional degree	None	Internship/residency
Surgeons	29-1067	Line item	45.0	52.6	7.6	16.8	7.6	2.0	≥\$208,000	Doctoral or professional degree	None	Internship/residency
Physicians and surgeons, all other	29-1069	Line item	372.4	422.0	49.6	13.3	6.2	15.2	\$ 206,920	Doctoral or professional degree	None	Internship/residency
Physician assistants	29-1071	Line item	106.2	145.9	39.7	37.4	0.1	10.6	\$ 101,480	Master's degree	None	None
Podiatrists	29-1081	Line item	11.0	12.1	1.1	9.7	7.4	0.7	\$ 124,830	Doctoral or professional degree	None	Internship/residency
Therapists	29-1120	Summary	723.0	876.7	153.7	21.3	7.5	51.9	\$ 75,020	—	—	—
Occupational therapists	29-1122	Line item	130.4	158.0	27.7	21.2	6.5	9.7	\$ 81,910	Master's degree	None	None
Physical therapists	29-1123	Line item	239.8	299.8	60.0	25.0	7.1	16.8	\$ 85,400	Doctoral or professional degree	None	None
Radiation therapists	29-1124	Line item	19.1	21.3	2.3	11.9	6.3	1.2	\$ 80,160	Associate's degree	None	None
Recreational therapists	29-1125	Line item	19.2	20.5	1.3	6.5	0.5	1.2	\$ 46,410	Bachelor's degree	None	None

Respiratory therapists	29-1126	Line item	130.2	160.6	30.4	23.4	0.3	9.8	\$ 58,670	Associate's degree	None	None
Speech-language pathologists	29-1127	Line item	145.1	170.5	25.4	17.5	4.8	10.3	\$ 74,680	Master's degree	None	Internship/residency
Exercise physiologists	29-1128	Line item	15.1	17.1	2.0	12.9	52.8	1.1	\$ 47,340	Bachelor's degree	None	None
Therapists, all other	29-1129	Line item	24.1	28.9	4.8	19.7	51.0	1.9	\$ 56,700	Bachelor's degree	None	None
Veterinarians	29-1131	Line item	79.6	94.0	14.4	18.1	13.2	4.5	\$ 88,770	Doctoral or professional degree	None	None
Registered nurses	29-1141	Line item	2,955.2	3,392.2	437.0	14.8	0.5	203.6	\$ 68,450	Bachelor's degree	None	None
Nurse anesthetists	29-1151	Line item	41.8	48.5	6.7	16.0	2.8	2.8	\$ 160,270	Master's degree	None	None
Nurse midwives	29-1161	Line item	6.5	7.8	1.3	20.6	1.0	0.5	\$ 99,770	Master's degree	None	None
Nurse practitioners	29-1171	Line item	155.5	211.5	56.0	36.0	1.0	14.4	\$ 100,910	Master's degree	None	None
Audiologists	29-1181	Line item	14.8	17.8	3.0	20.4	15.0	1.0	\$ 75,980	Doctoral or professional degree	None	None
Health diagnosing and treating practitioners, all other	29-1199	Line item	56.4	62.9	6.4	11.4	31.0	3.6	\$ 74,530	Master's degree	None	None
Health technologists and technicians	29-2000	Summary	3,093.5	3,513.1	419.6	13.6	0.5	257.9	\$ 42,750	—	—	—
Clinical laboratory technologists and technicians	29-2010	Summary	335.7	378.3	42.7	12.7	0.1	25.9	\$ 50,930	—	—	—
Medical and clinical laboratory technologists	29-2011	Line item	171.4	191.2	19.7	11.5	0.1	12.9	\$ 61,070	Bachelor's degree	None	None
Medical and clinical laboratory technicians	29-2012	Line item	164.2	187.2	22.9	14.0	0.1	12.9	\$ 38,950	Associate's degree	None	None
Dental hygienists	29-2021	Line item	207.9	248.8	40.9	19.6	0.4	17.5	\$ 72,910	Associate's degree	None	None
Diagnostic related technologists and technicians	29-2030	Summary	384.1	437.3	53.1	13.8	0.6	26.2	\$ 61,160	—	—	—
Cardiovascular technologists and technicians	29-2031	Line item	55.0	60.5	5.4	9.9	0.6	3.5	\$ 55,570	Associate's degree	None	None
Diagnostic medical sonographers	29-2032	Line item	67.3	82.9	15.6	23.2	0.6	5.4	\$ 69,650	Associate's degree	None	None
Nuclear medicine technologists	29-2033	Line item	20.1	22.0	2.0	9.8	0.6	1.3	\$ 74,350	Associate's degree	None	None
Radiologic technologists	29-2034	Line item	205.2	230.4	25.2	12.3	0.6	13.6	\$ 57,450	Associate's degree	None	None
Magnetic resonance imaging technologists	29-2035	Line item	36.6	41.5	5.0	13.6	0.6	2.5	\$ 68,420	Associate's degree	Less than 5 years	None
Emergency medical technicians and paramedics	29-2041	Line item	248.0	285.4	37.4	15.1	0.1	19.3	\$ 32,670	Postsecondary nondegree certificate	None	None
Health practitioner support technologists and technicians	29-2050	Summary	767.0	857.1	90.1	11.7	0.2	71.4	\$ 33,140	—	—	—
Dietetic technicians	29-2051	Line item	33.4	36.5	3.1	9.3	—	3.0	\$ 26,350	Associate's degree	None	None
Pharmacy technicians	29-2052	Line item	402.5	450.1	47.6	11.8	0.2	37.5	\$ 30,920	High school diploma	None	Moderate-term on-the-job training
Psychiatric technicians	29-2053	Line item	66.1	70.0	3.9	5.9	0.1	5.6	\$ 30,970	Postsecondary nondegree certificate	Less than 5 years	Short-term on-the-job training
Respiratory therapy technicians	29-2054	Line item	10.8	4.7	-6.1	-56.3	—	0.0	\$ 49,780	Associate's degree	None	None
Surgical technologists	29-2055	Line item	107.7	120.3	12.6	11.7	0.2	10.0	\$ 45,160	Postsecondary nondegree certificate	None	None
Veterinary technologists and technicians	29-2056	Line item	102.0	122.4	20.4	19.9	0.2	10.7	\$ 32,490	Associate's degree	None	None
Ophthalmic medical technicians	29-2057	Line item	44.5	53.2	8.7	19.4	0.2	4.6	\$ 35,530	Postsecondary nondegree certificate	None	None
Licensed practical and licensed vocational nurses	29-2061	Line item	724.5	813.1	88.6	12.2	0.5	62.7	\$ 44,090	Postsecondary nondegree certificate	None	None
Medical records and health information technicians	29-2071	Line item	206.3	234.1	27.8	13.5	0.7	15.8	\$ 38,040	Postsecondary nondegree certificate	None	None
Opticians, dispensing	29-2081	Line item	77.6	88.9	11.3	14.5	3.5	7.0	\$ 35,530	High school diploma	None	Long-term on-the-job training
Miscellaneous health technologists and technicians	29-2090	Summary	142.4	170.2	27.8	19.5	2.0	12.3	\$ 42,500	—	—	—
Orthotists and prosthetists	29-2091	Line item	7.8	9.5	1.7	21.9	2.0	0.7	\$ 65,630	Master's degree	None	Internship/residency
Hearing aid specialists	29-2092	Line item	6.8	8.2	1.3	19.2	2.3	0.6	\$ 50,250	High school diploma	None	Moderate-term on-the-job training
Health technologists and technicians, all other	29-2099	Line item	127.8	152.5	24.8	19.4	2.0	11.0	\$ 41,070	Postsecondary nondegree certificate	None	None
Other healthcare practitioners and technical occupations	29-9000	Summary	172.6	192.6	20.0	11.6	6.0	11.0	\$ 59,260	—	—	—
Occupational health and safety specialists and technicians	29-9010	Summary	101.8	109.9	8.1	7.9	6.0	6.1	\$ 66,820	—	—	—
Occupational health and safety specialists	29-9011	Line item	83.7	90.1	6.4	7.6	5.8	4.9	\$ 70,920	Bachelor's degree	None	None
Occupational health and safety technicians	29-9012	Line item	18.1	19.8	1.7	9.5	6.5	1.1	\$ 48,820	High school diploma	None	Moderate-term on-the-job training
Miscellaneous health practitioners and technical workers	29-9090	Summary	70.8	82.7	11.9	16.8	6.1	5.0	\$ 47,790	—	—	—
Athletic trainers	29-9091	Line item	27.8	34.0	6.2	22.2	6.2	2.2	\$ 45,630	Bachelor's degree	None	None
Genetic counselors	29-9092	Line item	3.1	3.9	0.9	28.3	7.6	0.3	\$ 74,120	Master's degree	None	None
Healthcare practitioners and technical workers, all other	29-9099	Line item	40.0	44.8	4.8	12.1	6.0	2.6	\$ 48,820	Postsecondary nondegree certificate	None	None
Healthcare support occupations	31-0000	Summary	4,315.6	5,315.5	999.9	23.2	2.8	635.4	\$ 27,910	—	—	—
Nursing, psychiatric, and home health aides	31-1000	Summary	2,549.4	3,147.2	597.8	23.4	1.9	376.8	\$ 24,810	—	—	—
Home health aides	31-1011	Line item	911.5	1,337.0	425.6	46.7	2.0	167.7	\$ 22,600	High school diploma	None	Short-term on-the-job training
Psychiatric aides	31-1013	Line item	73.6	77.4	3.9	5.2	1.0	8.8	\$ 26,720	High school diploma	None	Short-term on-the-job training
Nursing assistants	31-1014	Line item	1,510.3	1,674.4	164.0	10.9	2.0	193.6	\$ 26,590	Postsecondary nondegree certificate	None	None
Orderlies	31-1015	Line item	54.0	58.4	4.4	8.1	—	6.7	\$ 26,690	High school diploma	None	Short-term on-the-job training
aides	31-2000	Summary	187.1	242.6	55.5	29.7	0.5	31.0	\$ 48,970	—	—	—
Occupational therapy assistants and aides	31-2010	Summary	46.8	60.0	13.2	28.3	—	7.8	\$ 56,070	—	—	—
Occupational therapy assistants	31-2011	Line item	39.3	50.7	11.4	28.9	—	6.6	\$ 59,010	Associate's degree	None	None
Occupational therapy aides	31-2012	Line item	7.5	9.3	1.8	24.7	—	1.2	\$ 28,330	High school diploma	None	Short-term on-the-job training
Physical therapist assistants and aides	31-2020	Summary	140.3	182.6	42.3	30.1	0.6	23.2	\$ 45,290	—	—	—
Physical therapist assistants	31-2021	Line item	88.3	115.5	27.2	30.8	0.6	14.7	\$ 56,610	Associate's degree	None	None
Physical therapist aides	31-2022	Line item	52.0	67.1	15.1	29.1	0.6	8.5	\$ 25,680	High school diploma	None	Short-term on-the-job training
Other healthcare support occupations	31-9000	Summary	1,579.1	1,925.7	346.6	21.9	4.5	227.6	\$ 33,170	—	—	—
Massage therapists	31-9011	Line item	160.3	198.1	37.7	23.5	39.4	21.9	\$ 39,860	Postsecondary nondegree certificate	None	None
Miscellaneous healthcare support occupations	31-9090	Summary	1,418.8	1,727.6	308.8	21.8	0.5	205.6	\$ 32,880	—	—	—
Dental assistants	31-9091	Line item	332.0	396.6	64.6	19.5	0.1	45.9	\$ 36,940	Postsecondary nondegree certificate	None	None
Medical assistants	31-9092	Line item	634.4	819.0	184.6	29.1	0.4	95.0	\$ 31,540	Postsecondary nondegree certificate	None	None
Medical equipment preparers	31-9093	Line item	54.2	60.1	5.9	10.9	1.2	7.6	\$ 34,400	High school diploma	None	Moderate-term on-the-job training
Medical transcriptionists	31-9094	Line item	57.4	55.4	-2.0	-3.5	4.7	6.4	\$ 35,720	Postsecondary nondegree certificate	None	None
Pharmacy aides	31-9095	Line item	36.9	35.2	-1.8	-4.8	—	4.7	\$ 25,240	High school diploma	None	Short-term on-the-job training
Veterinary assistants and laboratory animal caretakers	31-9096	Line item	83.8	100.0	16.3	19.4	—	15.5	\$ 25,250	High school diploma	None	Short-term on-the-job training
Phlebotomists	31-9097	Line item	122.7	152.6	30.0	24.4	0.7	16.9	\$ 32,710	Postsecondary nondegree certificate	None	None
Healthcare support workers, all other	31-9099	Line item	97.3	108.6	11.3	11.6	0.9	13.7	\$ 36,330	High school diploma	None	None
Protective service occupations	33-0000	Summary	3,505.6	3,663.8	158.2	4.5	0.5	397.2	\$ 38,660	—	—	—
Supervisors of protective service workers	33-1000	Summary	284.2	295.2	11.1	3.9	0.4	21.6	\$ 67,430	—	—	—

First-line supervisors of law enforcement workers	33-1010	Summary	149.9	153.3	3.4	2.3	—	9.5	\$ 77,500	—	—	—
First-line supervisors of correctional officers	33-1011	Line item	45.2	41.7	-3.5	-7.8	—	2.5	\$ 60,560	High school diploma	Less than 5 years	None
First-line supervisors of police and detectives	33-1012	Line item	104.7	111.6	6.9	6.6	—	7.1	\$ 84,840	High school diploma	Less than 5 years	Moderate-term on-the-job training
First-line supervisors of fire fighting and prevention workers	33-1021	Line item	59.1	63.3	4.2	7.2	—	4.4	\$ 74,540	Postsecondary nond	Less than 5 years	Moderate-term on-the-job training
First-line supervisors of protective service workers, all other	33-1099	Line item	75.2	78.6	3.4	4.6	1.3	7.7	\$ 47,820	High school diploma	Less than 5 years	None
Fire fighting and prevention workers	33-2000	Summary	341.4	366.4	25.0	7.3	0.2	25.9	\$ 48,290	—	—	—
Firefighters	33-2011	Line item	327.3	351.0	23.6	7.2	0.2	24.3	\$ 48,030	Postsecondary nond	None	Long-term on-the-job training
Fire inspectors	33-2020	Summary	14.1	15.4	1.4	9.7	—	1.6	\$ 56,130	—	—	—
Fire inspectors and investigators	33-2021	Line item	12.3	13.2	0.9	7.3	—	1.4	\$ 58,440	Postsecondary nond	5 years or more	Moderate-term on-the-job training
Forest fire inspectors and prevention specialists	33-2022	Line item	1.7	2.2	0.5	26.6	—	0.2	\$ 36,230	High school diploma	Less than 5 years	Moderate-term on-the-job training
Law enforcement workers	33-3000	Summary	1,285.0	1,300.1	15.2	1.2	—	91.0	\$ 53,240	—	—	—
Bailiffs, correctional officers, and jailers	33-3010	Summary	468.6	433.7	-34.9	-7.4	—	32.7	\$ 42,820	—	—	—
Bailiffs	33-3011	Line item	18.6	18.2	-0.4	-2.1	—	1.4	\$ 42,670	High school diploma	None	Moderate-term on-the-job training
Correctional officers and jailers	33-3012	Line item	450.0	415.5	-34.5	-7.7	—	31.3	\$ 42,820	High school diploma	None	Moderate-term on-the-job training
Detectives and criminal investigators	33-3021	Line item	110.9	115.9	5.0	4.5	—	7.5	\$ 78,120	High school diploma	Less than 5 years	Moderate-term on-the-job training
Fish and game wardens	33-3031	Line item	7.0	7.3	0.3	4.3	—	0.7	\$ 51,730	Bachelor's degree	None	Moderate-term on-the-job training
Parking enforcement workers	33-3041	Line item	9.4	6.1	-3.3	-35.3	—	0.4	\$ 37,950	High school diploma	None	Short-term on-the-job training
Police officers	33-3050	Summary	689.1	737.2	48.1	7.0	—	49.8	\$ 59,750	—	—	—
Police and sheriff's patrol officers	33-3051	Line item	684.2	731.9	47.8	7.0	—	49.5	\$ 59,680	High school diploma	None	Moderate-term on-the-job training
Transit and railroad police	33-3052	Line item	4.9	5.3	0.3	6.3	—	0.4	\$ 66,610	High school diploma	None	Moderate-term on-the-job training
Other protective service workers	33-9000	Summary	1,595.0	1,702.0	107.0	6.7	1.1	258.6	\$ 25,960	—	—	—
Animal control workers	33-9011	Line item	13.4	14.6	1.1	8.4	—	1.6	\$ 34,550	High school diploma	None	Moderate-term on-the-job training
Private detectives and investigators	33-9021	Line item	41.4	45.7	4.3	10.5	30.8	4.5	\$ 48,190	High school diploma	Less than 5 years	Moderate-term on-the-job training
Security guards and gaming surveillance officers	33-9030	Summary	1,133.9	1,205.0	71.0	6.3	0.4	159.0	\$ 25,840	—	—	—
Gaming surveillance officers and gaming investigators	33-9031	Line item	10.7	11.1	0.4	3.5	—	1.4	\$ 32,630	High school diploma	Less than 5 years	Moderate-term on-the-job training
Security guards	33-9032	Line item	1,123.3	1,193.9	70.7	6.3	0.4	157.5	\$ 25,770	High school diploma	None	Short-term on-the-job training
Miscellaneous protective service workers	33-9090	Summary	406.2	436.7	30.5	7.5	—	93.6	\$ 25,020	—	—	—
Crossing guards	33-9091	Line item	74.3	80.6	6.3	8.5	—	14.5	\$ 26,700	No formal education	None	Short-term on-the-job training
service workers	33-9092	Line item	152.1	163.7	11.7	7.7	—	39.7	\$ 20,290	No formal education	None	Short-term on-the-job training
Transportation security screeners	33-9093	Line item	46.1	47.3	1.2	2.6	—	4.2	\$ 39,680	High school diploma	None	Short-term on-the-job training
Protective service workers, all other	33-9099	Line item	133.8	145.1	11.3	8.4	—	35.2	\$ 28,720	High school diploma	None	Short-term on-the-job training
Food preparation and serving related occupations	35-0000	Summary	13,206.1	14,438.3	1,232.2	9.3	0.5	2,469.9	\$ 20,810	—	—	—
Supervisors of food preparation and serving workers	35-1000	Summary	1,083.4	1,185.0	101.5	9.4	2.6	166.6	\$ 32,790	—	—	—
Chefs and head cooks	35-1011	Line item	146.5	160.5	14.1	9.6	6.7	20.3	\$ 43,180	High school diploma	5 years or more	None
workers	35-1012	Line item	936.9	1,024.4	87.5	9.3	1.9	146.2	\$ 31,480	High school diploma	Less than 5 years	None
Cooks and food preparation workers	35-2000	Summary	3,274.1	3,490.4	216.3	6.6	0.7	515.8	\$ 22,460	—	—	—
Cooks	35-2010	Summary	2,403.0	2,550.6	147.6	6.1	0.7	358.0	\$ 22,850	—	—	—
Cooks, fast food	35-2011	Line item	517.6	490.5	-27.1	-5.2	—	67.2	\$ 19,860	No formal education	None	Short-term on-the-job training
Cooks, institution and cafeteria	35-2012	Line item	424.8	457.4	32.6	7.7	—	64.4	\$ 24,750	No formal education	None	Short-term on-the-job training
Cooks, private household	35-2013	Line item	25.0	26.4	1.4	5.7	71.8	3.7	\$ 32,060	Postsecondary nond	Less than 5 years	None
Cooks, restaurant	35-2014	Line item	1,231.9	1,377.2	145.3	11.8	—	195.3	\$ 24,140	No formal education	Less than 5 years	Moderate-term on-the-job training
Cooks, short order	35-2015	Line item	185.9	179.7	-6.2	-3.3	—	24.7	\$ 21,890	No formal education	None	Short-term on-the-job training
Cooks, all other	35-2019	Line item	17.8	19.4	1.6	9.0	—	2.7	\$ 27,120	No formal education	None	Moderate-term on-the-job training
Food preparation workers	35-2021	Line item	871.1	939.8	68.7	7.9	0.6	157.7	\$ 21,440	No formal education	None	Short-term on-the-job training
Food and beverage serving workers	35-3000	Summary	7,432.9	8,260.6	827.7	11.1	0.1	1,517.3	\$ 19,750	—	—	—
Bartenders	35-3011	Line item	611.2	626.3	15.1	2.5	0.3	102.3	\$ 20,800	No formal education	None	Short-term on-the-job training
Fast food and counter workers	35-3020	Summary	3,957.5	4,560.6	603.1	15.2	0.1	849.2	\$ 19,500	—	—	—
including fast food	35-3021	Line item	3,452.2	4,032.1	579.9	16.8	0.1	736.0	\$ 19,440	No formal education	None	Short-term on-the-job training
coffee shop	35-3022	Line item	505.2	528.4	23.2	4.6	0.5	113.2	\$ 19,970	No formal education	None	Short-term on-the-job training
Waiters and waitresses	35-3031	Line item	2,600.5	2,783.0	182.5	7.0	0.1	522.7	\$ 19,990	No formal education	None	Short-term on-the-job training
Food servers, nonrestaurant	35-3041	Line item	263.8	290.7	26.9	10.2	—	43.1	\$ 21,240	No formal education	None	Short-term on-the-job training
Other food preparation and serving related workers	35-9000	Summary	1,415.7	1,502.3	86.6	6.1	0.1	270.3	\$ 20,310	—	—	—
Dining room and cafeteria attendants and bartender helpers	35-9011	Line item	431.2	461.7	30.5	7.1	0.2	78.2	\$ 20,200	No formal education	None	Short-term on-the-job training
Dishwashers	35-9021	Line item	514.3	536.6	22.2	4.3	—	83.0	\$ 20,800	No formal education	None	Short-term on-the-job training
Hosts and hostesses, restaurant, lounge, and coffee shop	35-9031	Line item	409.2	437.5	28.3	6.9	0.0	97.9	\$ 19,980	No formal education	None	Short-term on-the-job training
Food preparation and serving related workers, all other	35-9099	Line item	60.9	66.5	5.6	9.3	0.2	11.3	\$ 21,090	No formal education	None	Short-term on-the-job training
Building and grounds cleaning and maintenance occupations	37-0000	Summary	5,654.1	6,147.3	493.2	8.7	12.4	783.5	\$ 24,700	—	—	—
workers	37-1000	Summary	421.8	459.8	38.0	9.0	34.0	49.3	\$ 40,880	—	—	—
First-line supervisors of housekeeping and janitorial workers	37-1011	Line item	243.5	264.4	20.9	8.6	29.3	30.3	\$ 38,190	High school diploma	Less than 5 years	None
groundskeeping workers	37-1012	Line item	178.3	195.4	17.1	9.6	40.4	19.0	\$ 45,740	High school diploma	Less than 5 years	None
Building cleaning and pest control workers	37-2000	Summary	3,923.0	4,244.8	321.8	8.2	7.0	558.3	\$ 23,560	—	—	—
Building cleaning workers	37-2010	Summary	3,844.0	4,159.5	315.5	8.2	7.0	546.7	\$ 23,420	—	—	—
cleaners	37-2011	Line item	2,384.6	2,617.7	233.0	9.8	3.8	343.5	\$ 24,190	No formal education	None	Short-term on-the-job training
Maids and housekeeping cleaners	37-2012	Line item	1,443.2	1,523.6	80.4	5.6	12.3	200.8	\$ 21,820	No formal education	None	Short-term on-the-job training
Building cleaning workers, all other	37-2019	Line item	16.2	18.3	2.0	12.6	4.8	2.4	\$ 29,700	No formal education	None	Short-term on-the-job training
Pest control workers	37-2021	Line item	78.9	85.2	6.3	8.0	6.4	11.6	\$ 33,040	High school diploma	None	Moderate-term on-the-job training
Grounds maintenance workers	37-3000	Summary	1,309.3	1,442.7	133.4	10.2	21.7	175.9	\$ 26,830	—	—	—
Landscaping and groundskeeping workers	37-3011	Line item	1,197.9	1,321.2	123.3	10.3	21.9	161.1	\$ 26,320	No formal education	None	Short-term on-the-job training
Pesticide handlers, sprayers, and applicators, vegetation	37-3012	Line item	38.0	40.7	2.7	7.0	18.9	4.9	\$ 33,740	High school diploma	None	Moderate-term on-the-job training
Tree trimmers and pruners	37-3013	Line item	54.5	60.3	5.8	10.7	22.9	7.4	\$ 35,030	High school diploma	None	Short-term on-the-job training
Grounds maintenance workers, all other	37-3019	Line item	18.9	20.5	1.6	8.5	16.0	2.5	\$ 28,470	No formal education	None	Short-term on-the-job training
Personal care and service occupations	39-0000	Summary	6,419.7	7,589.0	1,169.2	18.2	16.2	1,131.3	\$ 22,710	—	—	—

Supervisors of personal care and service workers	39-1000	Summary	326.7	364.4	37.7	11.5	28.4	39.0	\$ 37,690	—	—	—
First-line supervisors of gaming workers	39-1010	Summary	50.6	52.4	1.8	3.7	40.2	8.1	\$ 46,810	—	—	—
Gaming supervisors	39-1011	Line item	38.5	39.9	1.3	3.5	41.7	6.2	\$ 50,520	High school diploma	Less than 5 years	None
Slot supervisors	39-1012	Line item	12.1	12.6	0.5	4.3	35.5	2.0	\$ 36,080	High school diploma	Less than 5 years	None
First-line supervisors of personal service workers	39-1021	Line item	276.1	312.0	35.9	13.0	26.2	30.9	\$ 36,700	High school diploma	Less than 5 years	None
Animal care and service workers	39-2000	Summary	296.4	355.1	58.7	19.8	23.6	52.2	\$ 22,230	—	—	—
Animal trainers	39-2011	Line item	54.9	60.7	5.9	10.7	46.8	7.0	\$ 27,690	High school diploma	None	Moderate-term on-the-job training
Nonfarm animal caretakers	39-2021	Line item	241.5	294.4	52.8	21.9	18.3	45.2	\$ 21,990	High school diploma	None	Short-term on-the-job training
Entertainment attendants and related workers	39-3000	Summary	584.3	625.9	41.6	7.1	0.8	132.3	\$ 20,110	—	—	—
Gaming services workers	39-3010	Summary	121.0	122.6	1.6	1.4	1.3	18.1	\$ 19,670	—	—	—
Gaming dealers	39-3011	Line item	96.9	98.0	1.1	1.1	1.2	14.5	\$ 19,290	High school diploma	None	Short-term on-the-job training
Gaming and sports book writers and runners	39-3012	Line item	11.7	12.1	0.4	3.8	1.3	1.8	\$ 22,600	High school diploma	None	Short-term on-the-job training
Gaming service workers, all other	39-3019	Line item	12.5	12.6	0.1	0.7	1.4	1.9	\$ 24,880	High school diploma	None	Short-term on-the-job training
Motion picture projectionists	39-3021	Line item	5.8	5.2	-0.6	-9.9	4.3	0.6	\$ 22,100	No formal education	None	Short-term on-the-job training
Ushers, lobby attendants, and ticket takers	39-3031	Line item	117.7	126.4	8.8	7.5	—	30.5	\$ 19,920	No formal education	None	Short-term on-the-job training
Miscellaneous entertainment attendants and related workers	39-3090	Summary	339.8	371.6	31.7	9.3	0.9	83.0	\$ 20,610	—	—	—
Amusement and recreation attendants	39-3091	Line item	300.0	327.8	27.8	9.3	0.9	73.2	\$ 20,160	No formal education	None	Short-term on-the-job training
Costume attendants	39-3092	Line item	6.6	7.3	0.6	9.7	1.1	1.6	\$ 45,900	High school diploma	None	Short-term on-the-job training
Locker room, coatroom, and dressing room attendants	39-3093	Line item	18.6	20.2	1.6	8.7	1.0	4.5	\$ 21,720	High school diploma	None	Short-term on-the-job training
Entertainment attendants and related workers, all other	39-3099	Line item	14.6	16.2	1.7	11.4	1.0	3.6	\$ 23,270	High school diploma	None	Short-term on-the-job training
Funeral service workers	39-4000	Summary	68.5	70.8	2.3	3.3	3.7	9.9	\$ 32,080	—	—	—
Embalmers	39-4011	Line item	3.7	3.7	0.0	-0.8	—	0.6	\$ 40,150	Associate's degree	None	Long-term on-the-job training
Funeral attendants	39-4021	Line item	36.1	37.0	1.0	2.7	—	5.6	\$ 24,830	High school diploma	None	Short-term on-the-job training
Morticians, undertakers, and funeral directors	39-4031	Line item	28.7	30.0	1.3	4.6	8.8	3.7	\$ 50,090	Associate's degree	None	Long-term on-the-job training
Personal appearance workers	39-5000	Summary	887.3	983.8	96.5	10.9	41.1	115.9	\$ 23,880	—	—	—
Barbers, hairdressers, hairstylists and cosmetologists	39-5010	Summary	673.7	744.2	70.5	10.5	45.3	88.2	\$ 24,300	—	—	—
Barbers	39-5011	Line item	56.4	61.6	5.2	9.2	71.7	5.8	\$ 25,760	Postsecondary nond	None	None
Hairdressers, hairstylists, and cosmetologists	39-5012	Line item	617.3	682.7	65.3	10.6	42.9	82.4	\$ 24,260	Postsecondary nond	None	None
Miscellaneous personal appearance workers	39-5090	Summary	213.6	239.6	26.0	12.2	28.0	27.7	\$ 23,130	—	—	—
Makeup artists, theatrical and performance	39-5091	Line item	4.8	5.4	0.5	11.2	29.1	0.6	\$ 60,970	Postsecondary nond	None	None
Manicurists and pedicurists	39-5092	Line item	126.3	141.4	15.2	12.0	28.0	16.4	\$ 22,150	Postsecondary nond	None	None
Shampoos	39-5093	Line item	21.2	23.8	2.6	12.2	28.0	2.8	\$ 19,700	No formal education	None	Short-term on-the-job training
Skincare specialists	39-5094	Line item	61.3	69.0	7.7	12.6	28.0	8.0	\$ 30,270	Postsecondary nond	None	None
Baggage porters, bellhops, and concierges	39-6000	Summary	77.6	85.0	7.4	9.5	—	11.8	\$ 24,710	—	—	—
Baggage porters and bellhops	39-6011	Line item	45.1	48.8	3.7	8.2	—	6.7	\$ 22,260	High school diploma	None	Short-term on-the-job training
Concierges	39-6012	Line item	32.5	36.2	3.7	11.3	—	5.0	\$ 29,250	High school diploma	None	Moderate-term on-the-job training
Tour and travel guides	39-7000	Summary	49.4	54.6	5.2	10.5	11.9	9.4	\$ 25,370	—	—	—
Tour guides and escorts	39-7011	Line item	45.8	50.8	5.0	10.9	11.9	8.8	\$ 24,920	High school diploma	None	Moderate-term on-the-job training
Travel guides	39-7012	Line item	3.6	3.8	0.2	5.5	12.5	0.7	\$ 32,100	High school diploma	None	Moderate-term on-the-job training
Other personal care and service workers	39-9000	Summary	4,129.5	5,049.4	919.9	22.3	12.0	760.8	\$ 22,520	—	—	—
Childcare workers	39-9011	Line item	1,216.6	1,298.7	82.1	6.7	28.8	188.8	\$ 21,170	High school diploma	None	Short-term on-the-job training
Personal care aides	39-9021	Line item	2,016.1	2,770.1	754.0	37.4	3.6	410.3	\$ 21,920	High school diploma	None	Short-term on-the-job training
Recreation and fitness workers	39-9030	Summary	689.1	751.7	62.6	9.1	8.7	125.5	\$ 27,570	—	—	—
Fitness trainers and aerobics instructors	39-9031	Line item	299.2	328.4	29.3	9.8	10.9	54.8	\$ 38,160	High school diploma	None	Short-term on-the-job training
Recreation workers	39-9032	Line item	390.0	423.3	33.3	8.5	7.0	70.6	\$ 23,870	High school diploma	None	Short-term on-the-job training
Residential advisors	39-9041	Line item	118.8	134.1	15.3	12.9	—	22.4	\$ 25,570	High school diploma	None	Short-term on-the-job training
Personal care and service workers, all other	39-9099	Line item	88.9	94.9	6.0	6.8	15.7	13.9	\$ 25,420	High school diploma	None	Short-term on-the-job training
Sales and related occupations	41-0000	Summary	15,747.8	16,255.2	507.4	3.2	7.8	2,208.7	\$ 26,590	—	—	—
Supervisors of sales workers	41-1000	Summary	1,937.6	2,040.9	103.3	5.3	25.7	211.3	\$ 42,250	—	—	—
First-line supervisors of retail sales workers	41-1011	Line item	1,532.4	1,609.7	77.3	5.0	22.8	171.4	\$ 39,040	High school diploma	Less than 5 years	None
First-line supervisors of non-retail sales workers	41-1012	Line item	405.2	431.2	26.0	6.4	36.8	39.8	\$ 73,150	High school diploma	Less than 5 years	None
Retail sales workers	41-2000	Summary	8,891.5	8,988.6	97.1	1.1	1.9	1,424.8	\$ 21,570	—	—	—
Cashiers	41-2010	Summary	3,578.9	3,550.1	-28.9	-0.8	0.6	658.4	\$ 20,200	—	—	—
Cashiers	41-2011	Line item	3,555.5	3,526.0	-29.5	-0.8	0.6	653.9	\$ 20,180	No formal education	None	Short-term on-the-job training
Gaming change persons and booth cashiers	41-2012	Line item	23.4	24.0	0.6	2.7	0.3	4.5	\$ 23,780	No formal education	None	Short-term on-the-job training
Counter and rental clerks and parts salespersons	41-2020	Summary	710.1	748.0	37.9	5.3	0.7	94.7	\$ 27,030	—	—	—
Counter and rental clerks	41-2021	Line item	458.2	483.4	25.1	5.5	0.5	61.8	\$ 25,550	No formal education	None	Short-term on-the-job training
Parts salespersons	41-2022	Line item	251.9	264.6	12.8	5.1	0.9	32.9	\$ 29,780	No formal education	None	Moderate-term on-the-job training
Retail salespersons	41-2031	Line item	4,602.5	4,690.6	88.1	1.9	3.2	671.7	\$ 22,680	No formal education	None	Short-term on-the-job training
Sales representatives, services	41-3000	Summary	2,091.8	2,245.7	154.0	7.4	7.1	249.4	\$ 52,600	—	—	—
Advertising sales agents	41-3011	Line item	149.9	145.6	-4.4	-2.9	5.8	17.8	\$ 50,380	High school diploma	None	Moderate-term on-the-job training
Insurance sales agents	41-3021	Line item	501.4	550.0	48.6	9.7	18.4	54.5	\$ 49,990	High school diploma	None	Moderate-term on-the-job training
Securities, commodities, and financial services sales agents	41-3031	Line item	375.7	398.7	23.0	6.1	4.8	38.0	\$ 67,310	Bachelor's degree	None	Moderate-term on-the-job training
Travel agents	41-3041	Line item	81.7	74.3	-7.5	-9.1	14.9	8.1	\$ 36,460	High school diploma	None	Moderate-term on-the-job training
Sales representatives, services, all other	41-3099	Line item	983.0	1,077.2	94.2	9.6	1.8	130.9	\$ 52,490	High school diploma	None	Moderate-term on-the-job training
Sales representatives, wholesale and manufacturing	41-4000	Summary	1,813.5	1,913.3	99.8	5.5	3.8	196.3	\$ 60,530	—	—	—
technical and scientific products	41-4011	Line item	343.6	362.4	18.7	5.5	3.8	37.2	\$ 78,980	Bachelor's degree	None	Moderate-term on-the-job training
Sales representatives, wholesale and manufacturing, except technical and scientific products	41-4012	Line item	1,469.9	1,551.0	81.1	5.5	3.8	159.1	\$ 57,140	High school diploma	None	Moderate-term on-the-job training
Other sales and related workers	41-9000	Summary	1,013.4	1,066.6	53.2	5.2	33.9	126.9	\$ 32,550	—	—	—
Models, demonstrators, and product promoters	41-9010	Summary	99.5	106.2	6.6	6.7	8.0	18.0	\$ 25,580	—	—	—
Demonstrators and product promoters	41-9011	Line item	94.7	101.4	6.7	7.0	8.0	17.2	\$ 25,610	No formal education	None	Short-term on-the-job training

Models	41-9012	Line item	4.8	4.8	0.0	-0.9	6.6	0.8	\$ 21,870	No formal education	None	None
Real estate brokers and sales agents	41-9020	Summary	444.1	471.0	26.9	6.0	56.0	43.9	\$ 46,410	—	—	—
Real estate brokers	41-9021	Line item	95.3	100.5	5.1	5.4	56.5	9.3	\$ 56,790	High school diploma	Less than 5 years	None
Real estate sales agents	41-9022	Line item	348.8	370.5	21.7	6.2	55.8	34.6	\$ 44,090	High school diploma	None	Moderate-term on-the-job training
Sales engineers	41-9031	Line item	74.9	80.1	5.2	6.9	0.1	8.3	\$ 100,000	Bachelor's degree	None	Moderate-term on-the-job training
Telemarketers	41-9041	Line item	216.6	216.5	-0.1	0.0	0.3	33.3	\$ 24,300	No formal education	None	Short-term on-the-job training
Miscellaneous sales and related workers	41-9090	Summary	178.3	192.8	14.5	8.2	48.5	23.3	\$ 35,880	—	—	—
and related workers	41-9091	Line item	82.4	87.5	5.2	6.3	90.2	9.4	\$ 24,330	No formal education	None	Short-term on-the-job training
Sales and related workers, all other	41-9099	Line item	95.9	105.3	9.4	9.8	12.7	13.9	\$ 37,190	High school diploma	None	None
Office and administrative support occupations	43-0000	Summary	23,081.2	23,230.6	149.4	0.6	1.0	2,596.4	\$ 34,050	—	—	—
Supervisors of office and administrative support workers	43-1000	Summary	1,506.3	1,557.5	51.2	3.4	0.8	153.0	\$ 54,340	—	—	—
workers	43-1011	Line item	1,506.3	1,557.5	51.2	3.4	0.8	153.0	\$ 54,340	High school diploma	Less than 5 years	None
Communications equipment operators	43-2000	Summary	104.7	84.4	-20.3	-19.4	—	10.2	\$ 28,640	—	—	—
Switchboard operators, including answering service	43-2011	Line item	93.2	74.7	-18.5	-19.9	—	9.0	\$ 28,030	High school diploma	None	Short-term on-the-job training
Telephone operators	43-2021	Line item	9.1	7.0	-2.0	-22.6	—	0.9	\$ 37,000	High school diploma	None	Short-term on-the-job training
Communications equipment operators, all other	43-2099	Line item	2.4	2.6	0.2	10.4	—	0.3	\$ 39,640	High school diploma	None	Short-term on-the-job training
Financial clerks	43-3000	Summary	3,336.6	3,332.3	-4.3	-0.1	2.2	358.8	\$ 35,840	—	—	—
Bill and account collectors	43-3011	Line item	305.7	296.6	-9.1	-3.0	0.7	30.2	\$ 35,350	High school diploma	None	Moderate-term on-the-job training
Billing and posting clerks	43-3021	Line item	501.0	517.9	70.9	14.2	1.0	59.6	\$ 36,150	High school diploma	None	Moderate-term on-the-job training
Bookkeeping, accounting, and auditing clerks	43-3031	Line item	1,730.5	1,706.9	-23.5	-1.4	3.8	186.6	\$ 38,390	Some college, no de	None	Moderate-term on-the-job training
Gaming cage workers	43-3041	Line item	19.0	19.3	0.3	1.4	—	3.0	\$ 25,990	High school diploma	None	Short-term on-the-job training
Payroll and timekeeping clerks	43-3051	Line item	166.3	164.7	-1.6	-0.9	0.3	16.1	\$ 42,390	High school diploma	None	Moderate-term on-the-job training
Procurement clerks	43-3061	Line item	74.9	71.8	-3.2	-4.2	1.0	7.5	\$ 41,410	High school diploma	None	Moderate-term on-the-job training
Tellers	43-3071	Line item	502.7	460.9	-41.7	-8.3	0.1	51.5	\$ 27,260	High school diploma	None	Short-term on-the-job training
Financial clerks, all other	43-3099	Line item	36.6	40.2	3.6	9.9	2.9	4.3	\$ 39,540	High school diploma	None	Short-term on-the-job training
Information and record clerks	43-4000	Summary	5,830.0	6,138.1	308.1	5.3	0.6	760.0	\$ 31,690	—	—	—
Brokerage clerks	43-4011	Line item	60.4	63.4	3.0	5.0	—	6.6	\$ 49,200	High school diploma	None	Moderate-term on-the-job training
Correspondence clerks	43-4021	Line item	7.2	7.4	0.2	2.1	1.1	0.8	\$ 36,370	High school diploma	None	Short-term on-the-job training
Court, municipal, and license clerks	43-4031	Line item	135.5	144.4	8.9	6.6	1.5	12.6	\$ 36,670	High school diploma	None	Moderate-term on-the-job training
Credit authorizers, checkers, and clerks	43-4041	Line item	38.5	37.4	-1.1	-2.8	1.0	3.7	\$ 36,930	High school diploma	None	Moderate-term on-the-job training
Customer service representatives	43-4051	Line item	2,784.5	2,920.5	136.0	4.9	0.5	373.4	\$ 32,300	High school diploma	None	Short-term on-the-job training
Eligibility interviewers, government programs	43-4061	Line item	143.1	151.6	8.5	6.0	—	13.6	\$ 43,350	High school diploma	None	Moderate-term on-the-job training
File clerks	43-4071	Line item	135.0	121.1	-13.9	-10.3	0.7	14.2	\$ 29,090	High school diploma	None	Short-term on-the-job training
Hotel, motel, and resort desk clerks	43-4081	Line item	252.6	263.9	11.3	4.5	0.4	40.9	\$ 22,070	High school diploma	None	Short-term on-the-job training
Interviewers, except eligibility and loan	43-4111	Line item	194.7	205.7	11.0	5.7	0.0	24.3	\$ 32,150	High school diploma	None	Short-term on-the-job training
Library assistants, clerical	43-4121	Line item	104.3	114.1	9.8	9.4	—	16.3	\$ 25,220	High school diploma	None	Short-term on-the-job training
Loan interviewers and clerks	43-4131	Line item	229.8	258.2	28.4	12.4	0.8	25.7	\$ 38,630	High school diploma	None	Short-term on-the-job training
New accounts clerks	43-4141	Line item	42.0	39.4	-2.6	-6.2	—	4.0	\$ 34,990	High school diploma	None	Moderate-term on-the-job training
Order clerks	43-4151	Line item	179.0	175.4	-3.6	-2.0	1.2	19.5	\$ 33,370	High school diploma	None	Short-term on-the-job training
timekeeping	43-4161	Line item	141.5	138.9	-2.6	-1.8	—	15.1	\$ 39,020	Associate's degree	None	None
Receptionists and information clerks	43-4171	Line item	1,053.7	1,149.4	95.7	9.1	1.0	151.2	\$ 27,920	High school diploma	None	Short-term on-the-job training
clerks	43-4181	Line item	150.1	155.7	5.6	3.7	0.5	16.3	\$ 35,230	High school diploma	None	Short-term on-the-job training
Information and record clerks, all other	43-4199	Line item	178.1	191.7	13.6	7.6	0.1	21.9	\$ 39,260	High school diploma	None	Short-term on-the-job training
workers	43-5000	Summary	4,117.5	4,196.8	79.3	1.9	0.7	454.1	\$ 30,430	—	—	—
Cargo and freight agents	43-5011	Line item	89.8	99.1	9.3	10.4	0.2	8.6	\$ 41,920	High school diploma	None	Short-term on-the-job training
Couriers and messengers	43-5021	Line item	95.0	103.0	8.0	8.4	20.1	9.7	\$ 28,170	High school diploma	None	Short-term on-the-job training
Dispatchers	43-5030	Summary	300.3	308.4	8.1	2.7	0.7	28.0	\$ 38,260	—	—	—
Police, fire, and ambulance dispatchers	43-5031	Line item	98.6	106.7	8.2	8.3	—	10.0	\$ 38,870	High school diploma	None	Moderate-term on-the-job training
Dispatchers, except police, fire, and ambulance	43-5032	Line item	201.7	201.7	0.0	0.0	1.0	18.0	\$ 37,940	High school diploma	None	Moderate-term on-the-job training
Meter readers, utilities	43-5041	Line item	34.8	33.2	-1.5	-4.4	—	2.3	\$ 38,940	High school diploma	None	Short-term on-the-job training
Postal service workers	43-5050	Summary	502.4	437.1	-65.3	-13.0	—	26.1	\$ 56,790	—	—	—
Postal service clerks	43-5051	Line item	79.0	69.5	-9.5	-12.1	—	4.8	\$ 56,790	High school diploma	None	Short-term on-the-job training
Postal service mail carriers	43-5052	Line item	316.7	278.5	-38.2	-12.1	—	16.1	\$ 58,110	High school diploma	None	Short-term on-the-job training
machine operators	43-5053	Line item	106.7	89.1	-17.5	-16.5	—	5.2	\$ 56,220	High school diploma	None	Short-term on-the-job training
Production, planning, and expediting clerks	43-5061	Line item	329.4	347.3	17.9	5.4	0.6	35.5	\$ 46,760	High school diploma	None	Moderate-term on-the-job training
Shipping, receiving, and traffic clerks	43-5071	Line item	681.4	681.4	0.1	0.0	0.1	67.2	\$ 31,180	High school diploma	None	Short-term on-the-job training
Stock clerks and order fillers	43-5081	Line item	2,008.6	2,109.9	101.3	5.0	0.2	269.3	\$ 23,840	High school diploma	None	Short-term on-the-job training
recordkeeping	43-5111	Line item	75.9	77.3	1.4	1.9	1.3	7.6	\$ 28,790	High school diploma	None	Short-term on-the-job training
Secretaries and administrative assistants	43-6000	Summary	3,990.4	3,798.5	-191.9	-4.8	0.9	394.7	\$ 37,230	—	—	—
assistants	43-6011	Line item	685.3	566.2	-119.1	-17.4	0.9	54.6	\$ 55,860	High school diploma	Less than 5 years	None
Legal secretaries	43-6012	Line item	194.7	157.5	-37.1	-19.1	1.1	15.0	\$ 44,180	High school diploma	None	Moderate-term on-the-job training
Medical secretaries	43-6013	Line item	574.2	703.2	129.1	22.5	1.1	80.8	\$ 33,730	High school diploma	None	Moderate-term on-the-job training
medical, and executive	43-6014	Line item	2,536.2	2,371.4	-164.8	-6.5	0.9	244.3	\$ 34,820	High school diploma	None	Short-term on-the-job training
Other office and administrative support workers	43-9000	Summary	4,195.7	4,123.0	-72.7	-1.7	1.0	465.5	\$ 31,590	—	—	—
Computer operators	43-9011	Line item	51.5	39.7	-11.8	-22.9	5.1	3.4	\$ 42,270	High school diploma	None	Moderate-term on-the-job training
Data entry and information processing workers	43-9020	Summary	278.7	210.6	-68.1	-24.4	3.1	21.3	\$ 31,980	—	—	—
Data entry keyers	43-9021	Line item	203.8	160.8	-43.1	-21.1	1.6	16.8	\$ 30,100	High school diploma	None	Short-term on-the-job training
Word processors and typists	43-9022	Line item	74.9	49.9	-25.0	-33.4	7.2	4.5	\$ 38,740	High school diploma	None	Short-term on-the-job training
Desktop publishers	43-9031	Line item	14.6	12.6	-2.0	-13.9	7.0	1.3	\$ 41,090	Associate's degree	None	Short-term on-the-job training
Insurance claims and policy processing clerks	43-9041	Line item	308.5	342.6	34.1	11.0	1.0	35.6	\$ 38,430	High school diploma	None	Moderate-term on-the-job training
service	43-9051	Line item	95.5	88.3	-7.1	-7.5	0.1	9.4	\$ 29,160	High school diploma	None	Short-term on-the-job training
Office clerks, general	43-9061	Line item	3,117.7	3,085.7	-32.1	-1.0	0.4	356.2	\$ 30,580	High school diploma	None	Short-term on-the-job training



Office machine operators, except computer	43-9071	Line item	59.9	50.5	-9.4	-15.6	—	5.1	\$ 30,460	High school diploma	None	Short-term on-the-job training
Proofreaders and copy markers	43-9081	Line item	14.2	14.5	0.3	2.2	12.3	2.2	\$ 36,960	Bachelor's degree	None	None
Statistical assistants	43-9111	Line item	11.8	12.9	1.1	9.2	—	1.6	\$ 46,850	Bachelor's degree	None	None
Office and administrative support workers, all other	43-9199	Line item	243.2	265.5	22.3	9.2	4.0	29.5	\$ 34,020	High school diploma	None	Short-term on-the-job training
Farming, fishing, and forestry occupations	45-0000	Summary	1,060.1	1,060.6	0.5	0.0	4.0	155.0	\$ 23,510	—	—	—
Supervisors of farming, fishing, and forestry workers	45-1000	Summary	48.7	51.0	2.2	4.6	12.3	6.7	\$ 45,320	—	—	—
workers	45-1011	Line item	48.7	51.0	2.2	4.6	12.3	6.7	\$ 45,320	High school diploma	Less than 5 years	None
Agricultural workers	45-2000	Summary	914.8	915.0	0.3	0.0	0.5	136.7	\$ 22,740	—	—	—
Agricultural inspectors	45-2011	Line item	15.6	16.3	0.7	4.6	—	2.2	\$ 42,800	Bachelor's degree	None	Moderate-term on-the-job training
Animal breeders	45-2021	Line item	9.0	9.2	0.2	2.0	—	1.4	\$ 35,690	High school diploma	None	Short-term on-the-job training
Graders and sorters, agricultural products	45-2041	Line item	42.9	42.5	-0.4	-0.9	0.2	5.7	\$ 22,520	No formal education	None	Short-term on-the-job training
Miscellaneous agricultural workers	45-2090	Summary	847.3	847.0	-0.2	0.0	0.5	127.5	\$ 22,520	—	—	—
Agricultural equipment operators	45-2091	Line item	63.9	67.5	3.6	5.6	0.6	10.2	\$ 28,850	No formal education	None	Moderate-term on-the-job training
greenhouse	45-2092	Line item	503.7	509.5	5.8	1.1	0.7	76.8	\$ 22,000	No formal education	None	Short-term on-the-job training
Farmworkers, farm, ranch, and aquacultural animals	45-2093	Line item	268.1	258.1	-10.1	-3.8	0.2	38.6	\$ 24,520	No formal education	None	Short-term on-the-job training
Agricultural workers, all other	45-2099	Line item	11.6	12.1	0.5	4.5	0.4	1.8	\$ 31,160	No formal education	None	Short-term on-the-job training
Fishing and hunting workers	45-3000	Line item	27.0	29.0	2.0	7.2	60.6	2.9	\$ 29,280	educational	None	on-the-job
Forest, conservation, and logging workers	45-4000	Summary	69.6	65.6	-4.0	-5.8	22.3	8.6	\$ 36,510	—	—	—
Forest and conservation workers	45-4011	Line item	14.3	14.1	-0.2	-1.3	13.6	2.2	\$ 26,940	High school diploma	None	Moderate-term on-the-job training
Logging workers	45-4020	Summary	55.3	51.5	-3.8	-7.0	24.6	6.4	\$ 37,590	—	—	—
Fallers	45-4021	Line item	7.5	6.7	-0.8	-10.5	25.1	0.8	\$ 37,370	High school diploma	None	Moderate-term on-the-job training
Logging equipment operators	45-4022	Line item	39.1	36.3	-2.7	-7.0	24.6	4.5	\$ 37,490	High school diploma	None	Moderate-term on-the-job training
Log graders and scalers	45-4023	Line item	4.2	4.3	0.1	2.7	25.1	0.6	\$ 37,090	High school diploma	None	Moderate-term on-the-job training
Logging workers, all other	45-4029	Line item	4.5	4.1	-0.4	-9.5	23.3	0.5	\$ 38,950	High school diploma	None	Moderate-term on-the-job training
Construction and extraction occupations	47-0000	Summary	6,812.5	7,570.8	758.4	11.1	17.5	799.7	\$ 43,610	—	—	—
Supervisors of construction and extraction workers	47-1000	Summary	602.5	678.8	76.3	12.7	10.2	68.5	\$ 62,980	—	—	—
workers	47-1011	Line item	602.5	678.8	76.3	12.7	10.2	68.5	\$ 62,980	High school diploma	5 years or more	None
Construction trades workers	47-2000	Summary	5,347.0	5,918.4	571.4	10.7	20.6	612.0	\$ 42,310	—	—	—
Boilermakers	47-2011	Line item	17.2	18.6	1.4	8.4	3.2	1.9	\$ 62,060	High school diploma	None	Apprenticeship
Brickmasons, blockmasons, and stonemasons	47-2020	Summary	110.0	121.5	11.5	10.5	29.8	10.9	\$ 47,590	—	—	—
Brickmasons and blockmasons	47-2021	Line item	91.1	100.8	9.7	10.6	29.8	9.1	\$ 49,250	High school diploma	None	Apprenticeship
Stonemasons	47-2022	Line item	18.9	20.7	1.9	9.8	29.9	1.9	\$ 39,780	High school diploma	None	Apprenticeship
Carpenters	47-2031	Line item	1,025.6	1,112.6	87.0	8.5	33.2	104.9	\$ 43,600	High school diploma	None	Apprenticeship
Carpet, floor, and tile installers and finishers	47-2040	Summary	122.3	134.5	12.1	9.9	35.9	11.9	\$ 39,150	—	—	—
Carpet installers	47-2041	Line item	40.4	44.4	3.9	9.8	35.9	3.9	\$ 38,280	No formal education	None	Short-term on-the-job training
Floor layers, except carpet, wood, and hard tiles	47-2042	Line item	16.3	18.0	1.6	10.0	35.8	1.6	\$ 37,840	No formal education	None	Moderate-term on-the-job training
Floor sanders and finishers	47-2043	Line item	7.3	8.0	0.7	9.8	35.9	0.7	\$ 36,860	No formal education	None	Moderate-term on-the-job training
Tile and marble setters	47-2044	Line item	58.3	64.2	5.8	10.0	35.9	5.7	\$ 40,460	No formal education	None	Long-term on-the-job training
Cement masons, concrete finishers, and terrazzo workers	47-2050	Summary	182.5	205.5	23.0	12.6	2.4	22.8	\$ 39,210	—	—	—
Cement masons and concrete finishers	47-2051	Line item	178.9	201.5	22.6	12.6	2.4	22.4	\$ 39,180	No formal education	None	Moderate-term on-the-job training
Terrazzo workers and finishers	47-2053	Line item	3.6	4.0	0.4	12.3	2.4	0.4	\$ 40,930	High school diploma	None	Apprenticeship
Construction laborers	47-2061	Line item	1,216.7	1,370.0	153.3	12.6	25.1	145.7	\$ 33,430	No formal education	None	Short-term on-the-job training
Construction equipment operators	47-2070	Summary	426.6	479.4	52.8	12.4	3.1	54.0	\$ 45,040	—	—	—
Paving, surfacing, and tamping equipment operators	47-2071	Line item	51.9	58.2	6.3	12.1	0.3	6.2	\$ 38,970	High school diploma	None	Moderate-term on-the-job training
Pile-driver operators	47-2072	Line item	3.7	4.2	0.5	14.7	4.1	0.5	\$ 55,070	High school diploma	None	Moderate-term on-the-job training
operators	47-2073	Line item	371.1	417.1	45.9	12.4	3.5	47.3	\$ 45,890	High school diploma	None	Moderate-term on-the-job training
Drywall installers, ceiling tile installers, and tapers	47-2080	Summary	143.2	144.7	1.5	1.1	22.3	12.6	\$ 42,280	—	—	—
Drywall and ceiling tile installers	47-2081	Line item	119.5	120.9	1.4	1.2	22.3	10.5	\$ 41,090	No formal education	None	Moderate-term on-the-job training
Tapers	47-2082	Line item	23.7	23.8	0.1	0.6	22.3	2.1	\$ 48,990	No formal education	None	Moderate-term on-the-job training
Electricians	47-2111	Line item	666.9	727.0	60.1	9.0	8.1	82.1	\$ 52,720	High school diploma	None	Apprenticeship
Glaziers	47-2121	Line item	50.1	55.4	5.3	10.6	5.3	6.5	\$ 41,920	High school diploma	None	Apprenticeship
Insulation workers	47-2130	Summary	59.5	62.7	3.2	5.4	4.9	6.6	\$ 39,280	—	—	—
Insulation workers, floor, ceiling, and wall	47-2131	Line item	30.9	31.4	0.4	1.3	5.0	3.3	\$ 35,660	No formal education	None	Short-term on-the-job training
Insulation workers, mechanical	47-2132	Line item	28.6	31.4	2.8	9.7	4.9	3.4	\$ 45,430	High school diploma	None	Apprenticeship
Painters and paperhangers	47-2140	Summary	387.3	411.0	23.7	6.1	42.3	35.9	\$ 37,520	—	—	—
Painters, construction and maintenance	47-2141	Line item	381.5	405.0	23.4	6.1	42.3	35.4	\$ 37,570	No formal education	None	Moderate-term on-the-job training
Paperhangers	47-2142	Line item	5.7	6.0	0.3	5.0	43.9	0.5	\$ 33,770	No formal education	None	Long-term on-the-job training
Pipelayers, plumbers, pipefitters, and steamfitters	47-2150	Summary	524.8	608.2	83.4	15.9	12.4	66.8	\$ 50,300	—	—	—
Pipelayers	47-2151	Line item	44.1	51.7	7.6	17.3	10.7	5.7	\$ 38,410	No formal education	None	Short-term on-the-job training
Plumbers, pipefitters, and steamfitters	47-2152	Line item	480.6	556.4	75.8	15.8	12.6	61.1	\$ 51,450	High school diploma	None	Apprenticeship
Plasterers and stucco masons	47-2161	Line item	27.7	28.8	1.1	4.0	18.0	2.7	\$ 38,890	No formal education	None	Long-term on-the-job training
Reinforcing iron and rebar workers	47-2171	Line item	20.1	22.5	2.4	12.1	—	2.4	\$ 47,600	High school diploma	None	Apprenticeship
Roofers	47-2181	Line item	146.2	162.7	16.5	11.3	20.9	16.6	\$ 37,760	No formal education	None	Moderate-term on-the-job training
Sheet metal workers	47-2211	Line item	138.9	151.0	12.0	8.7	1.9	16.2	\$ 46,940	High school diploma	None	Apprenticeship
Structural iron and steel workers	47-2221	Line item	70.2	79.2	9.0	12.8	0.9	8.7	\$ 51,800	High school diploma	None	Apprenticeship
Solar photovoltaic installers	47-2231	Line item	11.3	23.2	11.9	105.3	20.3	3.0	\$ 39,240	High school diploma	None	Moderate-term on-the-job training
Helpers, construction trades	47-3000	Summary	232.7	262.8	30.1	12.9	1.0	37.4	\$ 29,180	—	—	—
and marble setters	47-3011	Line item	24.1	27.0	2.9	12.1	1.0	3.8	\$ 30,570	No formal education	None	Short-term on-the-job training
Helpers--carpenters	47-3012	Line item	36.7	41.4	4.7	12.8	1.0	5.9	\$ 28,810	No formal education	None	Short-term on-the-job training
Helpers--electricians	47-3013	Line item	73.2	80.9	7.7	10.6	1.0	11.5	\$ 29,530	High school diploma	None	Short-term on-the-job training
Helpers--masons	47-3014	Line item	10.9	11.4	0.5	4.1	1.0	1.6	\$ 27,310	No formal education	None	Short-term on-the-job training
Helpers--pipelayers, plumbers, pipefitters, and steamfitters	47-3015	Line item	55.5	65.8	10.3	18.6	0.9	9.5	\$ 29,030	High school diploma	None	Short-term on-the-job training



workers	49-9040	Summary	477.7	510.0	32.3	6.8	1.7	46.9	\$ 49,080	—	—	—
Industrial machinery mechanics	49-9041	Line item	346.9	370.4	23.5	6.8	2.2	33.0	\$ 50,040	High school diploma	None	Long-term on-the-job training
Maintenance workers, machinery	49-9043	Line item	89.7	94.7	5.0	5.6	0.4	9.8	\$ 44,550	High school diploma	None	Long-term on-the-job training
Millwrights	49-9044	Line item	39.5	43.4	3.9	9.8	—	4.0	\$ 52,440	High school diploma	None	Apprenticeship
Refractory materials repairers, except brickmasons	49-9045	Line item	1.6	1.5	-0.1	-3.5	—	0.1	\$ 45,230	High school diploma	None	Moderate-term on-the-job training
Line installers and repairers	49-9050	Summary	227.0	245.5	18.5	8.1	3.1	22.4	\$ 62,650	—	—	—
Electrical power-line installers and repairers	49-9051	Line item	120.9	137.7	16.8	13.9	1.7	11.7	\$ 68,010	High school diploma	None	Long-term on-the-job training
Telecommunications line installers and repairers	49-9052	Line item	106.1	107.8	1.7	1.6	4.7	10.7	\$ 52,590	High school diploma	None	Long-term on-the-job training
Precision instrument and equipment repairers	49-9060	Summary	73.8	76.5	2.7	3.7	7.2	6.7	\$ 47,220	—	—	—
Camera and photographic equipment repairers	49-9061	Line item	4.0	4.2	0.1	3.3	7.2	0.4	\$ 41,060	High school diploma	None	Long-term on-the-job training
Medical equipment repairers	49-9062	Line item	47.1	49.6	2.5	5.3	7.4	4.4	\$ 48,070	Associate's degree	None	Moderate-term on-the-job training
Musical instrument repairers and tuners	49-9063	Line item	8.3	8.5	0.2	2.3	7.9	0.7	\$ 35,010	High school diploma	None	Apprenticeship
Watch repairers	49-9064	Line item	1.8	1.3	-0.5	-28.7	7.7	0.1	\$ 36,740	High school diploma	None	Long-term on-the-job training
Precision instrument and equipment repairers, all other	49-9069	Line item	12.6	12.9	0.4	2.9	5.8	1.1	\$ 56,230	High school diploma	None	Long-term on-the-job training
Maintenance and repair workers, general	49-9071	Line item	1,432.6	1,545.3	112.7	7.9	1.0	154.7	\$ 36,940	High school diploma	None	Moderate-term on-the-job training
Wind turbine service technicians	49-9081	Line item	5.8	11.3	5.5	96.1	16.9	1.4	\$ 52,260	Postsecondary nond	None	Long-term on-the-job training
Miscellaneous installation, maintenance, and repair workers	49-9090	Summary	401.4	425.5	24.1	6.0	10.8	45.6	\$ 34,170	—	—	—
repairers	49-9091	Line item	36.6	32.1	-4.6	-12.4	7.0	3.3	\$ 33,070	High school diploma	None	Short-term on-the-job training
Commercial divers	49-9092	Line item	4.1	4.5	0.4	10.6	17.4	0.4	\$ 49,090	Postsecondary nond	None	Moderate-term on-the-job training
Fabric menders, except garment	49-9093	Line item	0.7	0.6	-0.1	-7.6	17.5	0.1	\$ 26,920	High school diploma	None	Long-term on-the-job training
Locksmiths and safe repairers	49-9094	Line item	28.7	27.8	-0.9	-3.2	33.0	2.5	\$ 40,420	High school diploma	None	Long-term on-the-job training
Manufactured building and mobile home installers	49-9095	Line item	4.3	4.0	-0.4	-8.8	26.1	0.3	\$ 29,810	High school diploma	None	Short-term on-the-job training
Riggers	49-9096	Line item	20.9	22.9	2.1	9.8	—	2.3	\$ 45,690	High school diploma	None	Moderate-term on-the-job training
Signal and track switch repairers	49-9097	Line item	10.0	10.1	0.1	1.1	14.6	1.0	\$ 65,350	High school diploma	None	Moderate-term on-the-job training
Helpers--installation, maintenance, and repair workers	49-9098	Line item	120.2	133.5	13.3	11.1	0.3	17.0	\$ 27,510	High school diploma	None	Short-term on-the-job training
Installation, maintenance, and repair workers, all other	49-9099	Line item	175.8	189.9	14.1	8.0	15.6	18.6	\$ 38,480	High school diploma	None	Moderate-term on-the-job training
Production occupations	51-0000	Summary	9,356.9	8,971.6	-385.3	-4.1	2.6	993.8	\$ 33,130	—	—	—
Supervisors of production workers	51-1000	Summary	621.4	620.9	-0.5	-0.1	1.5	59.5	\$ 57,780	—	—	—
First-line supervisors of production and operating workers	51-1011	Line item	621.4	620.9	-0.5	-0.1	1.5	59.5	\$ 57,780	High school diploma	Less than 5 years	None
Assemblers and fabricators	51-2000	Summary	1,819.3	1,560.2	-259.1	-14.2	1.2	167.3	\$ 30,930	—	—	—
assemblers	51-2011	Line item	41.8	34.5	-7.3	-17.4	—	3.2	\$ 50,050	High school diploma	None	Moderate-term on-the-job training
Electrical, electronics, and electromechanical assemblers	51-2020	Summary	278.7	220.7	-58.0	-20.8	0.4	23.2	\$ 31,730	—	—	—
Coil winders, tapers, and finishers	51-2021	Line item	14.1	11.2	-2.9	-20.6	0.4	1.2	\$ 33,940	High school diploma	None	Moderate-term on-the-job training
Electrical and electronic equipment assemblers	51-2022	Line item	218.9	173.6	-45.3	-20.7	0.4	18.2	\$ 31,310	High school diploma	None	Moderate-term on-the-job training
Electromechanical equipment assemblers	51-2023	Line item	45.7	36.0	-9.7	-21.3	0.4	3.8	\$ 33,350	High school diploma	None	Moderate-term on-the-job training
Engine and other machine assemblers	51-2031	Line item	38.0	31.5	-6.5	-17.2	—	2.8	\$ 41,210	High school diploma	None	Moderate-term on-the-job training
Structural metal fabricators and fitters	51-2041	Line item	77.0	65.2	-11.8	-15.3	0.2	6.5	\$ 37,730	High school diploma	None	Moderate-term on-the-job training
Miscellaneous assemblers and fabricators	51-2090	Summary	1,383.8	1,208.2	-175.6	-12.7	1.4	131.7	\$ 29,840	—	—	—
Fiberglass laminators and fabricators	51-2091	Line item	19.7	19.4	-0.3	-1.3	1.4	2.2	\$ 30,870	High school diploma	None	Moderate-term on-the-job training
Team assemblers	51-2092	Line item	1,130.9	987.9	-143.0	-12.6	1.4	107.7	\$ 30,060	High school diploma	None	Moderate-term on-the-job training
Timing device assemblers and adjusters	51-2093	Line item	0.8	0.6	-0.2	-19.9	—	0.1	\$ 37,040	High school diploma	None	Moderate-term on-the-job training
Assemblers and fabricators, all other	51-2099	Line item	232.4	200.3	-32.2	-13.8	1.4	21.7	\$ 28,550	High school diploma	None	Moderate-term on-the-job training
Food processing workers	51-3000	Summary	823.0	849.9	26.9	3.3	2.1	110.1	\$ 26,280	—	—	—
Bakers	51-3011	Line item	191.0	203.1	12.1	6.3	4.9	28.7	\$ 25,090	No formal education	None	Long-term on-the-job training
workers	51-3020	Summary	374.6	384.0	9.4	2.5	0.7	46.9	\$ 26,410	—	—	—
Butchers and meat cutters	51-3021	Line item	135.7	143.4	7.7	5.7	0.7	17.7	\$ 29,870	No formal education	None	Long-term on-the-job training
Meat, poultry, and fish cutters and trimmers	51-3022	Line item	156.4	157.7	1.2	0.8	0.7	19.1	\$ 24,490	No formal education	None	Short-term on-the-job training
Slaughterers and meat packers	51-3023	Line item	82.5	82.9	0.4	0.5	0.7	10.1	\$ 26,590	No formal education	None	Short-term on-the-job training
Miscellaneous food processing workers	51-3090	Summary	257.4	262.8	5.4	2.1	2.1	34.6	\$ 27,110	—	—	—
operators and tenders	51-3091	Line item	20.1	20.0	-0.1	-0.6	1.2	2.3	\$ 28,570	No formal education	None	Moderate-term on-the-job training
Food batchmakers	51-3092	Line item	153.7	155.8	2.1	1.3	1.3	21.6	\$ 27,810	High school diploma	None	Moderate-term on-the-job training
Food cooking machine operators and tenders	51-3093	Line item	37.2	38.1	1.0	2.6	0.4	5.2	\$ 28,350	High school diploma	None	Moderate-term on-the-job training
Food processing workers, all other	51-3099	Line item	46.4	48.9	2.5	5.4	6.2	5.5	\$ 24,160	No formal education	None	Moderate-term on-the-job training
Metal workers and plastic workers	51-4000	Summary	1,954.7	1,886.5	-68.2	-3.5	1.8	192.1	\$ 37,560	—	—	—
Computer control programmers and operators	51-4010	Summary	170.7	176.4	5.7	3.3	—	17.5	\$ 39,290	—	—	—
plastic	51-4011	Line item	145.7	147.3	1.6	1.1	—	14.5	\$ 37,880	High school diploma	None	Moderate-term on-the-job training
programmers, metal and plastic	51-4012	Line item	25.1	29.2	4.1	16.3	—	3.1	\$ 50,580	Postsecondary nond	None	Moderate-term on-the-job training
plastic	51-4020	Summary	120.5	102.1	-18.4	-15.3	—	9.3	\$ 35,830	—	—	—
tenders, metal and plastic	51-4021	Line item	72.3	61.3	-11.0	-15.2	—	5.6	\$ 33,870	High school diploma	None	Moderate-term on-the-job training
and plastic	51-4022	Line item	19.2	15.5	-3.7	-19.2	—	1.4	\$ 36,930	High school diploma	None	Moderate-term on-the-job training
and plastic	51-4023	Line item	29.0	25.3	-3.7	-12.9	—	2.3	\$ 40,680	High school diploma	None	Moderate-term on-the-job training
and plastic	51-4030	Summary	332.4	299.3	-33.0	-9.9	0.7	30.9	\$ 33,620	—	—	—
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	51-4031	Line item	192.7	175.9	-16.8	-8.7	0.0	18.9	\$ 32,370	High school diploma	None	Moderate-term on-the-job training
tenders, metal and plastic	51-4032	Line item	12.3	9.9	-2.4	-19.4	0.6	0.9	\$ 36,410	High school diploma	None	Moderate-term on-the-job training
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	51-4033	Line item	76.2	68.5	-7.6	-10.0	2.6	6.8	\$ 32,890	High school diploma	None	Moderate-term on-the-job training
tenders, metal and plastic	51-4034	Line item	33.7	30.8	-2.8	-8.4	—	2.9	\$ 38,480	High school diploma	None	Moderate-term on-the-job training
tenders, metal and plastic	51-4035	Line item	17.6	14.2	-3.4	-19.3	0.6	1.3	\$ 39,840	High school diploma	None	Moderate-term on-the-job training
Machinists	51-4041	Line item	396.2	404.6	8.5	2.1	1.6	40.8	\$ 41,700	High school diploma	None	Long-term on-the-job training
Metal furnace operators, tenders, pourers, and casters	51-4050	Summary	26.2	22.8	-3.4	-13.1	—	2.0	\$ 39,220	—	—	—
Metal-refining furnace operators and tenders	51-4051	Line item	17.7	16.3	-1.4	-8.1	—	1.5	\$ 41,040	High school diploma	None	Moderate-term on-the-job training

Pourers and casters, metal	51-4052	Line item	8.4	6.5	-2.0	-23.4	—	0.5	\$ 36,180	High school diploma	None	Moderate-term on-the-job training
Model makers and patternmakers, metal and plastic	51-4060	Summary	9.7	8.4	-1.3	-13.3	0.6	0.8	\$ 46,600	—	—	—
Model makers, metal and plastic	51-4061	Line item	6.3	5.5	-0.8	-12.2	—	0.6	\$ 48,550	High school diploma	None	Moderate-term on-the-job training
Patternmakers, metal and plastic	51-4062	Line item	3.4	2.9	-0.5	-15.5	—	0.3	\$ 44,210	High school diploma	None	Moderate-term on-the-job training
tenders, metal and plastic	51-4070	Summary	157.9	133.1	-24.8	-15.7	—	13.9	\$ 30,820	—	—	—
Foundry mold and coremakers	51-4071	Line item	12.5	9.5	-3.0	-24.0	—	0.9	\$ 34,790	High school diploma	None	Moderate-term on-the-job training
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	51-4072	Line item	145.4	123.6	-21.8	-15.0	—	12.9	\$ 30,480	High school diploma	None	Moderate-term on-the-job training
and plastic	51-4081	Line item	117.8	114.7	-3.1	-2.6	0.6	12.0	\$ 34,340	High school diploma	None	Moderate-term on-the-job training
Tool and die makers	51-4111	Line item	72.5	67.2	-5.3	-7.3	0.4	6.0	\$ 51,060	Postsecondary nond	None	Long-term on-the-job training
Welding, soldering, and brazing workers	51-4120	Summary	454.0	471.2	17.2	3.8	5.5	50.2	\$ 39,110	—	—	—
Welders, cutters, solderers, and brazers	51-4121	Line item	404.8	427.0	22.2	5.5	5.4	45.8	\$ 39,390	High school diploma	None	Moderate-term on-the-job training
operators, and tenders	51-4122	Line item	49.2	44.2	-5.1	-10.3	5.6	4.4	\$ 36,980	High school diploma	None	Moderate-term on-the-job training
Miscellaneous metal workers and plastic workers	51-4190	Summary	96.7	86.6	-10.2	-10.5	0.3	8.6	\$ 34,740	—	—	—
metal and plastic	51-4191	Line item	19.8	17.0	-2.8	-14.1	0.6	1.7	\$ 37,180	High school diploma	None	Moderate-term on-the-job training
Layout workers, metal and plastic	51-4192	Line item	9.2	8.5	-0.6	-6.8	—	0.9	\$ 45,820	High school diploma	None	Moderate-term on-the-job training
tenders, metal and plastic	51-4193	Line item	35.3	30.4	-4.9	-13.8	—	2.8	\$ 31,280	High school diploma	None	Moderate-term on-the-job training
Tool grinders, filers, and sharpeners	51-4194	Line item	9.5	9.2	-0.3	-3.5	—	1.1	\$ 36,650	High school diploma	None	Moderate-term on-the-job training
Metal workers and plastic workers, all other	51-4199	Line item	23.0	21.4	-1.5	-6.6	0.6	2.2	\$ 33,280	High school diploma	None	Moderate-term on-the-job training
Printing workers	51-5100	Summary	267.3	237.9	-29.4	-11.0	4.5	25.1	\$ 35,120	—	—	—
Prepress technicians and workers	51-5111	Line item	34.6	28.0	-6.6	-19.0	3.8	3.0	\$ 38,930	Postsecondary nond	None	None
Printing press operators	51-5112	Line item	178.7	162.0	-16.8	-9.4	5.1	16.0	\$ 35,530	High school diploma	None	Moderate-term on-the-job training
Print binding and finishing workers	51-5113	Line item	54.0	47.9	-6.1	-11.3	3.1	6.1	\$ 31,410	High school diploma	None	Moderate-term on-the-job training
Textile, apparel, and furnishings workers	51-6000	Summary	654.3	612.0	-42.3	-6.5	10.9	72.3	\$ 23,750	—	—	—
Laundry and dry-cleaning workers	51-6011	Line item	220.1	219.3	-0.7	-0.3	4.6	29.4	\$ 21,510	No formal education	None	Short-term on-the-job training
Pressers, textile, garment, and related materials	51-6021	Line item	45.0	42.0	-3.0	-6.7	—	5.2	\$ 21,300	No formal education	None	Short-term on-the-job training
Sewing machine operators	51-6031	Line item	153.9	132.0	-21.9	-14.2	9.9	12.8	\$ 23,670	No formal education	None	Short-term on-the-job training
Shoe and leather workers	51-6040	Summary	14.6	14.1	-0.6	-4.0	23.5	1.4	\$ 24,600	—	—	—
Shoe and leather workers and repairers	51-6041	Line item	11.0	10.7	-0.3	-2.5	29.8	1.0	\$ 23,940	High school diploma	None	Moderate-term on-the-job training
Shoe machine operators and tenders	51-6042	Line item	3.6	3.3	-0.3	-8.5	4.4	0.4	\$ 26,150	High school diploma	None	Short-term on-the-job training
Tailors, dressmakers, and sewers	51-6050	Summary	57.7	57.1	-0.7	-1.2	51.8	7.1	\$ 27,080	—	—	—
Sewers, hand	51-6051	Line item	13.5	12.9	-0.5	-4.0	51.7	1.6	\$ 24,520	No formal education	None	Moderate-term on-the-job training
Tailors, dressmakers, and custom sewers	51-6052	Line item	44.3	44.1	-0.1	-0.3	51.9	5.5	\$ 28,240	No formal education	None	Moderate-term on-the-job training
Textile machine setters, operators, and tenders	51-6060	Summary	79.3	65.9	-13.4	-16.9	2.5	7.4	\$ 27,260	—	—	—
tenders	51-6061	Line item	11.3	9.4	-1.9	-17.0	4.4	1.0	\$ 27,270	High school diploma	None	Short-term on-the-job training
Textile cutting machine setters, operators, and tenders	51-6062	Line item	15.0	12.6	-2.4	-15.8	—	1.6	\$ 26,090	High school diploma	None	Moderate-term on-the-job training
and tenders	51-6063	Line item	22.2	18.1	-4.1	-18.3	3.5	2.1	\$ 27,470	High school diploma	None	Short-term on-the-job training
setters, operators, and tenders	51-6064	Line item	30.8	25.8	-5.0	-16.3	2.2	2.6	\$ 27,500	High school diploma	None	Moderate-term on-the-job training
Miscellaneous textile, apparel, and furnishings workers	51-6090	Summary	83.7	81.7	-2.0	-2.4	12.9	8.9	\$ 32,400	—	—	—
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	51-6091	Line item	20.2	18.5	-1.7	-8.5	4.4	2.1	\$ 34,240	High school diploma	None	Moderate-term on-the-job training
Fabric and apparel patternmakers	51-6092	Line item	5.5	4.7	-0.8	-15.0	4.4	0.5	\$ 39,650	High school diploma	None	Moderate-term on-the-job training
Upholsterers	51-6093	Line item	41.6	42.7	1.0	2.5	21.6	4.4	\$ 33,050	High school diploma	None	Moderate-term on-the-job training
Textile, apparel, and furnishings workers, all other	51-6099	Line item	16.3	15.8	-0.5	-3.0	4.2	1.9	\$ 25,890	High school diploma	None	Short-term on-the-job training
Woodworkers	51-7000	Summary	279.3	285.1	5.9	2.1	9.7	30.4	\$ 30,210	—	—	—
Cabinetmakers and bench carpenters	51-7011	Line item	109.3	113.0	3.7	3.4	10.3	11.7	\$ 33,050	High school diploma	None	Moderate-term on-the-job training
Furniture finishers	51-7021	Line item	22.4	22.9	0.6	2.5	22.2	2.1	\$ 30,550	High school diploma	None	Short-term on-the-job training
Model makers and patternmakers, wood	51-7030	Summary	3.7	3.8	0.1	3.8	45.0	0.4	\$ 44,320	—	—	—
Model makers, wood	51-7031	Line item	1.9	2.0	0.1	3.6	44.8	0.2	\$ 40,890	High school diploma	None	Moderate-term on-the-job training
Patternmakers, wood	51-7032	Line item	1.8	1.8	0.1	3.9	45.2	0.2	\$ 46,510	High school diploma	None	Moderate-term on-the-job training
Woodworking machine setters, operators, and tenders	51-7040	Summary	131.9	132.8	1.0	0.7	3.0	14.7	\$ 28,460	—	—	—
Sawing machine setters, operators, and tenders, wood except sawing	51-7041	Line item	54.8	55.2	0.4	0.8	6.2	6.3	\$ 28,380	High school diploma	None	Moderate-term on-the-job training
Woodworkers, all other	51-7042	Line item	77.1	77.6	0.6	0.7	0.7	8.4	\$ 28,510	High school diploma	None	Moderate-term on-the-job training
Plant and system operators	51-8000	Summary	314.0	309.7	-4.3	-1.4	0.1	27.8	\$ 58,100	—	—	—
Power plant operators, distributors, and dispatchers	51-8010	Summary	54.7	54.2	-0.6	-1.0	—	4.6	\$ 78,370	—	—	—
Nuclear power reactor operators	51-8011	Line item	7.0	6.3	-0.7	-10.2	—	0.5	\$ 91,170	High school diploma	None	Long-term on-the-job training
Power distributors and dispatchers	51-8012	Line item	11.6	11.3	-0.3	-2.5	—	1.0	\$ 81,900	High school diploma	None	Long-term on-the-job training
Power plant operators	51-8013	Line item	36.1	36.5	0.5	1.3	—	3.2	\$ 74,690	High school diploma	None	Long-term on-the-job training
Stationary engineers and boiler operators	51-8021	Line item	35.7	37.4	1.7	4.8	0.7	3.9	\$ 59,400	High school diploma	None	Long-term on-the-job training
Water and wastewater treatment plant and system operators	51-8031	Line item	119.2	115.4	-3.8	-3.2	—	9.2	\$ 45,760	High school diploma	None	Long-term on-the-job training
Miscellaneous plant and system operators	51-8090	Summary	104.4	102.7	-1.7	-1.6	—	10.0	\$ 63,430	—	—	—
Chemical plant and system operators	51-8091	Line item	33.2	30.1	-3.1	-9.2	—	2.8	\$ 59,920	High school diploma	None	Moderate-term on-the-job training
Gas plant operators	51-8092	Line item	17.3	17.3	0.0	0.0	—	1.7	\$ 67,580	High school diploma	None	Long-term on-the-job training
and gaugers	51-8093	Line item	41.8	43.0	1.2	2.8	—	4.3	\$ 67,400	High school diploma	None	Moderate-term on-the-job training
Plant and system operators, all other	51-8099	Line item	12.1	12.4	0.2	1.9	—	1.2	\$ 54,930	High school diploma	None	Moderate-term on-the-job training
Other production occupations	51-9000	Summary	2,623.7	2,609.5	-14.2	-0.5	1.7	309.2	\$ 31,520	—	—	—
tenders	51-9010	Summary	121.3	117.7	-3.5	-2.9	0.6	12.3	\$ 43,600	—	—	—
Chemical equipment operators and tenders	51-9011	Line item	74.1	70.4	-3.6	-4.9	0.6	7.3	\$ 47,780	High school diploma	None	Moderate-term on-the-job training
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	51-9012	Line item	47.2	47.3	0.1	0.2	0.6	5.0	\$ 38,360	High school diploma	None	Moderate-term on-the-job training
Crushing, grinding, polishing, mixing, and blending workers	51-9020	Summary	187.7	176.2	-11.5	-6.1	0.3	19.0	\$ 34,440	—	—	—

operators, and tenders	51-9021	Line item	30.2	28.2	-2.0	-6.7	0.3	3.0	\$ 34,390	High school diploma	None	Moderate-term on-the-job training
Grinding and polishing workers, hand	51-9022	Line item	26.6	21.1	-5.4	-20.5	0.3	2.1	\$ 28,720	No formal education	None	Moderate-term on-the-job training
tenders	51-9023	Line item	131.0	126.9	-4.1	-3.1	0.3	13.9	\$ 35,680	High school diploma	None	Moderate-term on-the-job training
Cutting workers	51-9030	Summary	78.3	74.3	-4.0	-5.1	2.2	8.2	\$ 31,780	—	—	—
Cutters and trimmers, hand	51-9031	Line item	14.7	13.2	-1.5	-10.0	2.2	1.4	\$ 27,600	No formal education	None	Short-term on-the-job training
tenders	51-9032	Line item	63.6	61.1	-2.5	-3.9	2.2	6.8	\$ 32,870	High school diploma	None	Moderate-term on-the-job training
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	51-9041	Line item	71.4	67.5	-3.8	-5.4	—	7.9	\$ 32,510	High school diploma	None	Moderate-term on-the-job training
Furnace, kiln, oven, drier, and kettle operators and tenders	51-9051	Line item	21.9	20.8	-1.1	-5.0	10.7	2.0	\$ 36,040	High school diploma	None	Moderate-term on-the-job training
Inspectors, testers, sorters, samplers, and weighers	51-9061	Line item	520.7	465.2	-55.5	-10.7	0.5	52.7	\$ 36,780	High school diploma	None	Moderate-term on-the-job training
Jewelers and precious stone and metal workers	51-9071	Line item	37.7	36.5	-1.2	-3.1	30.2	3.7	\$ 38,200	High school diploma	None	Long-term on-the-job training
Medical, dental, and ophthalmic laboratory technicians	51-9080	Summary	82.2	93.2	11.0	13.4	2.0	10.7	\$ 34,630	—	—	—
Dental laboratory technicians	51-9081	Line item	38.1	43.7	5.5	14.5	1.9	5.0	\$ 37,680	High school diploma	None	Moderate-term on-the-job training
Medical appliance technicians	51-9082	Line item	15.0	17.0	2.0	13.7	2.0	2.0	\$ 35,980	High school diploma	None	Moderate-term on-the-job training
Ophthalmic laboratory technicians	51-9083	Line item	29.1	32.5	3.5	11.9	2.0	3.7	\$ 30,640	High school diploma	None	Moderate-term on-the-job training
Packaging and filling machine operators and tenders	51-9111	Line item	383.0	389.7	6.7	1.7	0.3	44.6	\$ 28,290	High school diploma	None	Moderate-term on-the-job training
Painting workers	51-9120	Summary	164.2	168.6	4.3	2.6	5.0	17.6	\$ 35,300	—	—	—
operators, and tenders	51-9121	Line item	89.9	90.1	0.2	0.2	5.0	9.3	\$ 32,790	High school diploma	None	Moderate-term on-the-job training
Painters, transportation equipment	51-9122	Line item	58.1	62.0	4.0	6.9	5.0	6.6	\$ 42,150	High school diploma	None	Moderate-term on-the-job training
Painting, coating, and decorating workers	51-9123	Line item	16.3	16.5	0.2	1.1	4.9	1.7	\$ 30,030	No formal education	None	Moderate-term on-the-job training
Semiconductor processors	51-9141	Line item	25.5	24.2	-1.3	-5.1	3.1	2.7	\$ 35,660	High school diploma	None	Moderate-term on-the-job training
operators	51-9151	Line item	26.9	21.9	-4.9	-18.4	3.3	3.3	\$ 26,470	High school diploma	None	Short-term on-the-job training
Miscellaneous production workers	51-9190	Summary	902.8	953.4	50.6	5.6	1.5	124.5	\$ 27,620	—	—	—
Adhesive bonding machine operators and tenders	51-9191	Line item	17.0	16.6	-0.5	-2.7	—	1.8	\$ 32,290	High school diploma	None	Moderate-term on-the-job training
operators and tenders	51-9192	Line item	17.2	17.3	0.1	0.4	—	2.2	\$ 28,550	High school diploma	None	Moderate-term on-the-job training
Cooling and freezing equipment operators and tenders	51-9193	Line item	8.7	8.8	0.2	1.9	3.0	1.0	\$ 29,190	High school diploma	None	Moderate-term on-the-job training
Etchers and engravers	51-9194	Line item	10.6	10.7	0.1	1.0	10.1	1.3	\$ 31,110	High school diploma	None	Moderate-term on-the-job training
Molders, shapers, and casters, except metal and plastic	51-9195	Line item	43.0	42.5	-0.4	-1.0	8.3	4.2	\$ 30,610	High school diploma	None	Long-term on-the-job training
Paper goods machine setters, operators, and tenders	51-9196	Line item	94.6	86.1	-8.5	-9.0	—	8.3	\$ 36,990	High school diploma	None	Moderate-term on-the-job training
Tire builders	51-9197	Line item	22.3	19.6	-2.7	-12.1	—	2.1	\$ 41,680	High school diploma	None	Moderate-term on-the-job training
Helpers--production workers	51-9198	Line item	426.0	475.5	49.5	11.6	0.1	72.0	\$ 24,830	High school diploma	None	Short-term on-the-job training
Production workers, all other	51-9199	Line item	263.5	276.3	12.8	4.9	3.0	31.6	\$ 28,770	High school diploma	None	Moderate-term on-the-job training
Transportation and material moving occupations	53-0000	Summary	10,274.2	10,918.1	643.9	6.3	4.4	1,334.8	\$ 30,730	—	—	—
Supervisors of transportation and material moving workers	53-1000	Summary	396.2	425.9	29.7	7.5	0.2	44.4	\$ 52,250	—	—	—
Aircraft cargo handling supervisors	53-1011	Line item	7.6	8.1	0.5	5.9	—	0.8	\$ 47,360	High school diploma	Less than 5 years	None
movers, hand	53-1021	Line item	184.4	200.1	15.7	8.5	0.2	21.0	\$ 47,230	High school diploma	Less than 5 years	None
First-line supervisors of transportation and material-moving machine and vehicle operators	53-1031	Line item	204.2	217.7	13.6	6.6	0.2	22.6	\$ 57,270	High school diploma	Less than 5 years	None
Air transportation workers	53-2000	Summary	275.3	293.2	18.0	6.5	0.5	29.6	\$ 71,510	—	—	—
Aircraft pilots and flight engineers	53-2010	Summary	124.8	129.2	4.4	3.5	1.1	12.1	\$ 105,720	—	—	—
Airline pilots, copilots, and flight engineers	53-2011	Line item	84.0	86.9	2.9	3.4	—	8.1	\$ 127,820	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
Commercial pilots	53-2012	Line item	40.8	42.3	1.5	3.8	3.3	4.0	\$ 77,200	High school diploma	None	Moderate-term on-the-job training
Air traffic controllers and airfield operations specialists	53-2020	Summary	33.8	35.5	1.6	4.9	—	3.3	\$ 96,870	—	—	—
Air traffic controllers	53-2021	Line item	24.9	25.8	0.9	3.5	—	2.4	\$ 122,410	Associate's degree	None	Long-term on-the-job training
Airfield operations specialists	53-2022	Line item	8.9	9.7	0.8	8.8	—	0.9	\$ 48,910	High school diploma	None	Long-term on-the-job training
Flight attendants	53-2031	Line item	116.6	128.5	11.9	10.2	—	14.2	\$ 48,500	High school diploma	Less than 5 years	Moderate-term on-the-job training
Motor vehicle operators	53-3000	Summary	4,358.9	4,598.8	239.9	5.5	8.7	508.1	\$ 34,980	—	—	—
medical technicians	53-3011	Line item	17.3	21.1	3.8	21.9	—	3.1	\$ 23,850	High school diploma	None	Moderate-term on-the-job training
Bus drivers	53-3020	Summary	687.2	729.6	42.5	6.2	0.9	88.7	\$ 31,920	—	—	—
Bus drivers, transit and intercity	53-3021	Line item	179.3	195.1	15.9	8.8	0.9	23.9	\$ 39,790	High school diploma	None	Moderate-term on-the-job training
Bus drivers, school or special client	53-3022	Line item	507.9	534.5	26.6	5.2	0.9	64.8	\$ 30,150	High school diploma	None	Short-term on-the-job training
Driver/sales workers and truck drivers	53-3030	Summary	3,293.1	3,466.2	173.1	5.3	7.9	372.9	\$ 36,670	—	—	—
Driver/sales workers	53-3031	Line item	467.9	462.4	-5.5	-1.2	8.1	48.4	\$ 22,830	High school diploma	None	Short-term on-the-job training
Heavy and tractor-trailer truck drivers	53-3032	Line item	1,871.7	1,985.5	113.8	6.1	7.9	214.3	\$ 41,340	Postsecondary nond	None	Short-term on-the-job training
Light truck or delivery services drivers	53-3033	Line item	953.5	1,018.3	64.8	6.8	7.9	110.2	\$ 30,580	High school diploma	None	Short-term on-the-job training
Taxi drivers and chauffeurs	53-3041	Line item	305.1	319.9	14.7	4.8	36.3	32.7	\$ 24,300	No formal education	None	Short-term on-the-job training
Motor vehicle operators, all other	53-3099	Line item	56.2	62.0	5.8	10.3	2.8	10.7	\$ 27,150	No formal education	None	Short-term on-the-job training
Rail transportation workers	53-4000	Summary	122.9	120.6	-2.3	-1.9	0.1	10.4	\$ 57,740	—	—	—
Locomotive engineers and operators	53-4010	Summary	44.4	42.5	-1.8	-4.1	—	3.3	\$ 57,130	—	—	—
Locomotive engineers	53-4011	Line item	38.8	37.7	-1.1	-2.8	—	3.0	\$ 57,670	High school diploma	Less than 5 years	Moderate-term on-the-job training
Locomotive firers	53-4012	Line item	1.2	0.3	-0.9	-78.6	—	0.0	\$ 58,230	High school diploma	None	Moderate-term on-the-job training
Rail yard engineers, dinky operators, and hostlers	53-4013	Line item	4.4	4.6	0.2	3.7	—	0.4	\$ 50,470	High school diploma	None	Moderate-term on-the-job training
Railroad brake, signal, and switch operators	53-4021	Line item	19.3	19.0	-0.3	-1.6	—	1.7	\$ 56,570	High school diploma	None	Moderate-term on-the-job training
Railroad conductors and yardmasters	53-4031	Line item	41.8	41.0	-0.9	-2.1	—	3.7	\$ 57,480	High school diploma	None	Moderate-term on-the-job training
Subway and streetcar operators	53-4041	Line item	12.8	13.4	0.5	4.1	—	1.3	\$ 64,680	High school diploma	None	Moderate-term on-the-job training
Rail transportation workers, all other	53-4099	Line item	4.6	4.8	0.1	3.2	3.2	0.4	\$ 60,420	High school diploma	None	Moderate-term on-the-job training
Water transportation workers	53-5000	Summary	86.3	93.2	6.9	8.0	1.6	10.5	\$ 54,870	—	—	—
Sailors and marine oilers	53-5011	Line item	33.8	36.4	2.6	7.6	—	4.4	\$ 42,060	No formal education	None	Moderate-term on-the-job training
Ship and boat captains and operators	53-5020	Summary	42.4	46.1	3.7	8.7	3.3	4.8	\$ 69,650	—	—	—
Captains, mates, and pilots of water vessels	53-5021	Line item	38.8	42.2	3.4	8.8	3.3	4.4	\$ 72,680	Postsecondary nond	Less than 5 years	None
Motorboat operators	53-5022	Line item	3.6	3.9	0.3	7.6	3.2	0.4	\$ 40,210	Postsecondary nond	Less than 5 years	None
Ship engineers	53-5031	Line item	10.1	10.8	0.7	6.5	—	1.3	\$ 70,570	Postsecondary nond	Less than 5 years	None

Other transportation workers	53-6000	Summary	356.5	384.4	27.9	7.8	0.6	55.4	\$ 23,560	—	—	—
Bridge and lock tenders	53-6011	Line item	3.7	3.8	0.2	4.9	—	0.4	\$ 49,090	High school diploma	None	Short-term on-the-job training
Parking lot attendants	53-6021	Line item	151.6	160.6	9.0	6.0	1.3	23.8	\$ 21,730	No formal education	None	Short-term on-the-job training
Automotive and watercraft service attendants	53-6031	Line item	110.0	121.7	11.7	10.6	0.2	20.0	\$ 22,420	No formal education	None	Short-term on-the-job training
Traffic technicians	53-6041	Line item	6.6	7.2	0.6	9.1	—	0.8	\$ 45,150	High school diploma	None	Moderate-term on-the-job training
Transportation inspectors	53-6051	Line item	28.2	29.8	1.7	5.9	—	2.9	\$ 72,220	High school diploma	None	Moderate-term on-the-job training
Transportation attendants, except flight attendants	53-6061	Line item	18.5	20.0	1.6	8.4	—	2.7	\$ 26,060	High school diploma	None	Short-term on-the-job training
Transportation workers, all other	53-6099	Line item	38.0	41.2	3.1	8.3	—	4.8	\$ 35,660	High school diploma	None	Short-term on-the-job training
Material moving workers	53-7000	Summary	4,678.0	5,001.9	323.9	6.9	1.5	676.3	\$ 26,240	—	—	—
Conveyor operators and tenders	53-7011	Line item	28.1	27.7	-0.3	-1.2	—	3.7	\$ 31,410	No formal education	None	Short-term on-the-job training
Crane and tower operators	53-7021	Line item	46.0	50.0	4.0	8.6	2.9	5.3	\$ 52,170	High school diploma	Less than 5 years	Moderate-term on-the-job training
Dredge, excavating, and loading machine operators	53-7030	Summary	55.1	59.3	4.3	7.8	5.9	6.6	\$ 41,600	—	—	—
Dredge operators	53-7031	Line item	1.8	1.9	0.1	5.3	5.7	0.2	\$ 42,420	High school diploma	None	Moderate-term on-the-job training
Excavating and loading machine and dragline operators	53-7032	Line item	50.6	54.9	4.3	8.4	5.9	6.1	\$ 41,030	High school diploma	Less than 5 years	Moderate-term on-the-job training
Loading machine operators, underground mining	53-7033	Line item	2.6	2.5	-0.1	-3.2	6.2	0.3	\$ 53,420	No formal education	None	Short-term on-the-job training
Hoist and winch operators	53-7041	Line item	2.9	2.9	0.0	-0.7	—	0.4	\$ 42,530	No formal education	None	Short-term on-the-job training
Industrial truck and tractor operators	53-7051	Line item	549.9	586.1	36.2	6.6	0.2	65.9	\$ 32,460	No formal education	None	Short-term on-the-job training
Laborers and material movers, hand	53-7060	Summary	3,796.0	4,051.3	255.3	6.7	1.2	566.9	\$ 24,720	—	—	—
Cleaners of vehicles and equipment	53-7061	Line item	369.2	409.1	39.9	10.8	4.2	57.8	\$ 22,220	No formal education	None	Short-term on-the-job training
Laborers and freight, stock, and material movers, hand	53-7062	Line item	2,628.4	2,829.2	200.8	7.6	1.0	388.6	\$ 25,980	No formal education	None	Short-term on-the-job training
Machine feeders and offbearers	53-7063	Line item	87.7	89.3	1.6	1.8	—	12.0	\$ 28,410	No formal education	None	Short-term on-the-job training
Packers and packagers, hand	53-7064	Line item	710.8	723.8	13.0	1.8	0.4	108.4	\$ 22,130	No formal education	None	Short-term on-the-job training
Pumping station operators	53-7070	Summary	27.3	31.6	4.3	15.6	0.5	3.9	\$ 48,840	—	—	—
Gas compressor and gas pumping station operators	53-7071	Line item	3.9	4.0	0.1	3.3	—	0.5	\$ 60,470	High school diploma	None	Moderate-term on-the-job training
Pump operators, except wellhead pumpers	53-7072	Line item	11.9	13.5	1.6	13.8	0.5	1.7	\$ 42,470	High school diploma	None	Moderate-term on-the-job training
Wellhead pumpers	53-7073	Line item	11.5	14.0	2.5	21.7	0.5	1.8	\$ 49,610	High school diploma	Less than 5 years	Moderate-term on-the-job training
Refuse and recyclable material collectors	53-7081	Line item	136.0	153.6	17.7	13.0	14.1	18.9	\$ 35,270	No formal education	None	Short-term on-the-job training
Mine shuttle car operators	53-7111	Line item	1.5	1.2	-0.3	-21.9	—	0.1	\$ 56,450	No formal education	None	Short-term on-the-job training
Tank car, truck, and ship loaders	53-7121	Line item	10.8	11.4	0.6	5.2	—	1.4	\$ 35,770	No formal education	None	Short-term on-the-job training
Material moving workers, all other	53-7199	Line item	24.4	26.7	2.3	9.3	—	3.2	\$ 28,370	No formal education	None	Short-term on-the-job training

Footnotes:

(1) Data are from the Occupational Employment Statistics program, U.S. Bureau of Labor Statistics. Wage data cover non-farm wage and salary workers and do not cover the self-employed, owners and partners in unincorporated firms, or household

Note: Data is unavailable for values denoted with a "—".

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

**Table 1.10 Occupational separations and openings, projected 2016-2026**  
(Numbers in thousands)

2016 National Employment Matrix title and code		Occupation type	Employment		Employment change, 2016-26		Occupational separations rate, 2016-26 annual average			Occupational separations, 2016-26 annual average			Occupational openings, 2016-26 annual average
			2016	2026	Number	Percent	Labor force exits	Occupational transfers	Total	Labor force exits	Occupational transfers	Total	
Total, all occupations	00-0000	Summary	156,063.8	167,582.3	11,518.6	7.4	4.7	6.2	10.9	7,548.5	10,040.0	17,588.5	18,740.3
Management occupations	11-0000	Summary	9,533.1	10,411.5	878.3	9.2	2.8	4.8	7.7	283.8	479.6	763.4	851.2
Top executives	11-1000	Summary	2,627.5	2,826.6	199.1	7.6	2.2	5.7	7.9	59.4	156.0	215.4	235.3
Chief executives	11-1011	Line item	308.9	298.2	-10.7	-3.5	2.9	4.1	7	8.8	12.5	21.2	20.1
General and operations managers	11-1021	Line item	2,263.1	2,469.0	205.9	9.1	2.1	6.0	8	49.0	141.1	190.2	210.8
Legislators	11-1031	Line item	55.5	59.4	3.9	7.1	2.7	4.2	6.9	1.6	2.4	4.0	4.4
managers	11-2000	Summary	708.6	768.2	59.6	8.4	2.3	6.1	8.4	16.8	45.0	61.8	67.8
Advertising and promotions managers	11-2011	Line item	31.3	33.1	1.8	5.8	2.6	7.5	10.1	0.8	2.4	3.2	3.4
Marketing and sales managers	11-2020	Summary	603.8	654.0	50.2	8.3	2.3	6.1	8.3	14.3	38.2	52.5	57.5
Marketing managers	11-2021	Line item	218.3	240.1	21.8	10.0	2.3	6.1	8.3	5.2	13.9	19.1	21.3
Sales managers	11-2022	Line item	385.5	413.9	28.4	7.4	2.3	6.1	8.3	9.1	24.3	33.3	36.2
Public relations and fundraising managers	11-2031	Line item	73.5	81.1	7.7	10.4	2.2	5.7	7.9	1.7	4.4	6.1	6.9
Operations specialties managers	11-3000	Summary	1,776.1	1,984.8	208.6	11.7	2.3	5.1	7.4	44.1	95.4	139.5	160.3
Administrative services managers	11-3011	Line item	281.7	310.1	28.4	10.1	3.0	4.9	7.9	8.9	14.5	23.3	26.2
Computer and information systems managers	11-3021	Line item	367.6	411.4	43.8	11.9	1.8	5.5	7.2	6.9	21.2	28.1	32.5
Financial managers	11-3031	Line item	580.4	688.8	108.4	18.7	2.3	4.9	7.2	14.6	31.4	46.0	56.8
Industrial production managers	11-3051	Line item	170.6	170.3	-0.3	-0.2	2.3	4.6	6.9	4.0	7.8	11.8	11.7
Purchasing managers	11-3061	Line item	73.9	78.0	4.1	5.6	2.9	4.9	7.8	2.2	3.7	5.9	6.3
Transportation, storage, and distribution managers	11-3071	Line item	115.5	123.3	7.7	6.7	2.3	5.2	7.5	2.7	6.2	8.9	9.7
Compensation and benefits managers	11-3111	Line item	15.8	16.6	0.8	5.0	2.2	4.7	7	0.4	0.8	1.1	1.2
Human resources managers	11-3121	Line item	136.1	148.3	12.2	8.9	2.5	5.4	7.8	3.5	7.6	11.2	12.4
Training and development managers	11-3131	Line item	34.5	38.1	3.6	10.3	2.8	5.9	8.7	1.0	2.1	3.2	3.5
Other management occupations	11-9000	Summary	4,421.0	4,832.0	411.0	9.3	3.5	4.0	7.5	163.5	183.2	346.7	387.8
Farmers, ranchers, and other agricultural managers	11-9013	Line item	1,028.7	1,097.4	68.7	6.7	5.8	1.5	7.3	62.1	15.8	77.9	84.8
Construction managers	11-9021	Line item	403.8	449.9	46.1	11.4	2.3	4.4	6.7	9.8	19.0	28.8	33.4
Education administrators	11-9030	Summary	531.6	579.9	48.2	9.1	2.8	4.6	7.4	15.6	25.3	40.9	45.7
center/program	11-9031	Line item	61.8	68.3	6.5	10.6	2.8	4.6	7.4	1.8	3.0	4.8	5.4
school	11-9032	Line item	251.3	271.0	19.7	7.8	2.8	4.6	7.4	7.3	11.9	19.2	21.2
Education administrators, postsecondary	11-9033	Line item	180.1	198.1	18.0	10.0	2.8	4.6	7.4	5.3	8.6	13.9	15.7
Education administrators, all other	11-9039	Line item	38.4	42.4	4.0	10.4	2.8	4.6	7.4	1.1	1.8	3.0	3.4
Architectural and engineering managers	11-9041	Line item	180.1	190.0	9.9	5.5	2.0	4.8	6.8	3.7	8.9	12.6	13.6
Food service managers	11-9051	Line item	308.7	336.0	27.3	8.8	3.2	7.4	10.5	10.2	23.8	34.0	36.7
Funeral service managers	11-9061	Line item	25.7	27.4	1.6	6.4	2.7	4.2	6.9	0.7	1.1	1.8	2.0
Gaming managers	11-9071	Line item	4.5	4.6	0.1	2.5	2.7	8.1	10.8	0.1	0.4	0.5	0.5
Lodging managers	11-9081	Line item	47.8	50.6	2.8	5.9	3.4	6.5	9.9	1.7	3.2	4.9	5.1
Medical and health services managers	11-9111	Line item	352.2	422.0	69.8	19.8	2.7	4.9	7.6	10.5	18.9	29.4	36.4
Natural sciences managers	11-9121	Line item	56.7	62.3	5.6	9.9	2.2	5.6	7.9	1.3	3.3	4.7	5.2
Postmasters and mail superintendents	11-9131	Line item	14.2	11.2	-3.0	-20.9	2.7	4.2	6.9	0.3	0.5	0.9	0.6
Property, real estate, and community association managers	11-9141	Line item	317.3	351.3	34.0	10.7	4.1	3.3	7.5	13.9	11.2	25.0	28.4
Social and community service managers	11-9151	Line item	147.3	170.4	23.1	15.7	3.3	5.2	8.5	5.2	8.3	13.5	15.8
Emergency management directors	11-9161	Line item	10.1	10.9	0.8	7.7	3.8	3.6	7.5	0.4	0.4	0.8	0.9
Managers, all other	11-9199	Line item	992.1	1,068.0	75.8	7.6	2.7	4.2	6.9	27.9	43.2	71.1	78.7
Business and financial operations occupations	13-0000	Summary	8,066.8	8,817.3	750.4	9.3	2.9	5.8	8.8	247.4	491.9	739.3	814.3
Business operations specialists	13-1000	Summary	5,080.8	5,534.7	453.9	8.9	3.0	6.0	9	159.3	320.3	479.6	525.0
athletes	13-1011	Line item	19.1	20.0	0.9	4.9	4.1	7.2	11.3	0.8	1.4	2.2	2.3
Buyers and purchasing agents	13-1020	Summary	446.5	426.0	-20.5	-4.6	3.3	6.0	9.3	14.4	26.4	40.7	38.7
Buyers and purchasing agents, farm products	13-1021	Line item	13.7	12.9	-0.8	-5.9	4.6	6.8	11.4	0.6	0.9	1.5	1.4
Wholesale and retail buyers, except farm products	13-1022	Line item	123.3	121.0	-2.4	-1.9	4.0	7.2	11.2	4.8	8.8	13.6	13.4
products	13-1023	Line item	309.4	292.1	-17.3	-5.6	3.0	5.5	8.5	8.9	16.6	25.6	23.8
Claims adjusters, appraisers, examiners, and investigators	13-1030	Summary	328.7	325.1	-3.7	-1.1	2.5	5.6	8.1	8.2	18.2	26.4	26.0
Claims adjusters, examiners, and investigators	13-1031	Line item	311.1	306.6	-4.5	-1.5	2.5	5.6	8.1	7.7	17.2	24.9	24.5
Insurance appraisers, auto damage	13-1032	Line item	17.6	18.5	0.9	4.9	2.5	5.6	8.1	0.5	1.0	1.5	1.5
Compliance officers	13-1041	Line item	288.3	312.0	23.7	8.2	2.8	5.0	7.8	8.4	15.1	23.5	25.9
Cost estimators	13-1051	Line item	217.9	240.9	23.0	10.6	3.1	6.5	9.6	7.2	14.9	22.1	24.4
Human resources workers	13-1070	Summary	631.8	664.5	32.6	5.2	2.9	6.6	9.5	18.8	42.6	61.4	64.7
Human resources specialists	13-1071	Line item	547.8	586.4	38.7	7.1	2.9	6.6	9.5	16.5	37.3	53.7	57.6
Farm labor contractors	13-1074	Line item	3.0	3.2	0.2	8.0	2.9	6.6	9.5	0.1	0.2	0.3	0.3
Labor relations specialists	13-1075	Line item	81.1	74.8	-6.3	-7.8	2.9	6.6	9.5	2.3	5.1	7.4	6.8

Logisticians	13-1081	Line item	148.7	159.0	10.3	6.9	2.5	7.0	9.5	3.8	10.8	14.6	15.6
Management analysts	13-1111	Line item	806.4	902.8	96.5	12.0	3.2	5.2	8.4	27.5	44.2	71.6	81.3
Meeting, convention, and event planners	13-1121	Line item	116.7	128.5	11.8	10.2	3.8	7.5	11.3	4.6	9.2	13.8	15.0
Fundraisers	13-1131	Line item	90.4	103.6	13.2	14.6	3.1	6.6	9.7	3.0	6.4	9.4	10.7
Compensation, benefits, and job analysis specialists	13-1141	Line item	84.2	91.3	7.2	8.5	2.5	5.4	8	2.2	4.8	7.0	7.7
Training and development specialists	13-1151	Line item	282.8	315.3	32.5	11.5	3.1	6.4	9.5	9.2	19.2	28.4	31.7
Market research analysts and marketing specialists	13-1161	Line item	595.4	731.4	136.0	22.8	2.7	6.9	9.5	17.6	45.5	63.1	76.7
Business operations specialists, all other	13-1199	Line item	1,023.9	1,114.1	90.2	8.8	3.1	5.8	8.9	33.5	61.7	95.2	104.2
Financial specialists	13-2000	Summary	2,986.0	3,282.6	296.6	9.9	2.8	5.5	8.3	88.1	171.6	259.7	289.4
Accountants and auditors	13-2011	Line item	1,397.7	1,538.0	140.3	10.0	3.0	5.8	8.7	43.3	84.5	127.8	141.8
Appraisers and assessors of real estate	13-2021	Line item	80.8	92.4	11.6	14.4	3.5	2.9	6.4	3.0	2.5	5.5	6.7
Budget analysts	13-2031	Line item	58.4	62.2	3.8	6.5	2.7	4.6	7.3	1.6	2.8	4.4	4.8
Credit analysts	13-2041	Line item	73.8	79.9	6.2	8.4	2.3	5.7	8	1.8	4.4	6.2	6.8
Financial analysts and advisors	13-2050	Summary	672.0	738.0	65.9	9.8	2.3	5.6	7.8	16.0	39.3	55.3	61.9
Financial analysts	13-2051	Line item	296.1	328.2	32.1	10.8	2.0	6.3	8.3	6.2	19.6	25.8	29.0
Personal financial advisors	13-2052	Line item	271.9	311.2	39.3	14.4	2.5	4.9	7.4	7.2	14.3	21.4	25.4
Insurance underwriters	13-2053	Line item	104.1	98.6	-5.4	-5.2	2.6	5.4	7.9	2.6	5.4	8.0	7.5
Financial examiners	13-2061	Line item	52.5	57.6	5.1	9.8	2.8	4.6	7.4	1.5	2.5	4.1	4.6
Credit counselors and loan officers	13-2070	Summary	357.0	398.8	41.8	11.7	2.4	5.5	8	9.1	21.0	30.1	34.3
Credit counselors	13-2071	Line item	38.3	43.7	5.3	13.9	2.4	5.5	8	1.0	2.3	3.3	3.8
Loan officers	13-2072	Line item	318.6	355.1	36.5	11.5	2.4	5.5	8	8.1	18.7	26.8	30.5
agents	13-2080	Summary	158.0	168.0	10.0	6.3	4.5	4.5	9	7.3	7.4	14.7	15.7
Tax examiners and collectors, and revenue agents	13-2081	Line item	62.1	61.7	-0.4	-0.6	3.0	3.9	6.9	1.8	2.4	4.3	4.2
Tax preparers	13-2082	Line item	95.9	106.3	10.4	10.8	5.4	4.9	10.4	5.5	5.0	10.5	11.5
Financial specialists, all other	13-2099	Line item	135.9	147.8	11.9	8.7	3.1	5.2	8.2	4.4	7.3	11.7	12.9
Computer and mathematical occupations	15-0000	Summary	4,419.0	5,015.3	596.3	13.5	1.7	4.8	6.5	79.7	225.9	305.7	365.3
Computer occupations	15-1100	Summary	4,238.4	4,784.5	546.1	12.9	1.7	4.8	6.5	75.7	217.2	292.9	347.5
Computer and information research scientists	15-1111	Line item	27.9	33.2	5.4	19.2	1.4	5.2	6.6	0.4	1.6	2.0	2.5
Computer and information analysts	15-1120	Summary	700.5	782.0	81.5	11.6	1.8	4.5	6.3	13.5	33.5	47.0	55.2
Computer systems analysts	15-1121	Line item	600.5	653.5	53.0	8.8	1.8	4.5	6.3	11.5	28.0	39.5	44.8
Information security analysts	15-1122	Line item	100.0	128.5	28.4	28.4	1.8	4.9	6.6	2.0	5.6	7.6	10.4
Software developers and programmers	15-1130	Summary	1,714.0	2,012.3	298.2	17.4	1.5	4.9	6.3	27.4	90.5	117.9	147.7
Computer programmers	15-1131	Line item	294.9	272.3	-22.6	-7.6	1.7	4.5	6.2	5.0	12.7	17.6	15.4
Software developers, applications	15-1132	Line item	831.3	1,084.6	253.4	30.5	1.4	4.9	6.3	13.1	47.0	60.1	85.5
Software developers, systems software	15-1133	Line item	425.0	471.0	46.1	10.8	1.4	4.9	6.3	6.1	22.0	28.1	32.7
Web developers	15-1134	Line item	162.9	184.2	21.3	13.1	1.9	5.1	6.9	3.2	8.8	12.0	14.2
architects	15-1140	Summary	673.4	721.4	48.0	7.1	1.5	4.7	6.2	10.7	32.5	43.1	47.9
Database administrators	15-1141	Line item	119.5	133.2	13.7	11.5	2.1	4.2	6.3	2.7	5.2	7.9	9.3
Network and computer systems administrators	15-1142	Line item	391.3	415.2	23.9	6.1	1.4	4.7	6.1	5.7	19.0	24.6	27.0
Computer network architects	15-1143	Line item	162.7	173.1	10.4	6.4	1.4	4.9	6.3	2.4	8.3	10.6	11.7
Computer support specialists	15-1150	Summary	835.3	922.5	87.1	10.4	2.0	5.1	7.2	17.9	45.2	63.1	71.8
Computer user support specialists	15-1151	Line item	636.6	707.6	71.1	11.2	2.0	5.1	7.2	13.7	34.6	48.3	55.4
Computer network support specialists	15-1152	Line item	198.8	214.8	16.1	8.1	2.0	5.1	7.2	4.2	10.6	14.8	16.5
Computer occupations, all other	15-1199	Line item	287.2	313.1	25.9	9.0	1.9	4.6	6.6	5.8	13.9	19.7	22.3
Mathematical science occupations	15-2000	Summary	180.7	230.9	50.2	27.8	2.0	4.2	6.2	4.0	8.7	12.7	17.8
Actuaries	15-2011	Line item	23.6	28.9	5.3	22.5	1.3	4.7	6	0.3	1.2	1.6	2.1
Mathematicians	15-2021	Line item	3.1	4.0	0.9	29.4	2.1	5.2	7.3	0.1	0.2	0.3	0.3
Operations research analysts	15-2031	Line item	114.0	145.3	31.3	27.4	2.1	3.8	5.8	2.7	4.9	7.5	10.7
Statisticians	15-2041	Line item	37.2	49.6	12.4	33.4	2.1	5.2	7.3	0.9	2.2	3.2	4.4
Miscellaneous mathematical science occupations	15-2090	Summary	2.8	3.1	0.3	10.0	2.1	5.2	7.3	0.1	0.2	0.2	0.2
Mathematical technicians	15-2091	Line item	0.6	0.6	0.0	7.5	2.1	5.2	7.3	0.0	0.0	0.0	0.0
Mathematical science occupations, all other	15-2099	Line item	2.2	2.4	0.2	10.7	2.1	5.2	7.3	0.0	0.1	0.2	0.2
Architecture and engineering occupations	17-0000	Summary	2,601.0	2,794.2	193.2	7.4	2.5	4.6	7.1	67.1	123.5	190.6	210.0
Architects, surveyors, and cartographers	17-1000	Summary	210.9	225.0	14.1	6.7	2.6	4.4	7	5.7	9.5	15.2	16.6
Architects, except naval	17-1010	Summary	153.5	160.2	6.7	4.3	2.5	4.5	7	4.0	7.0	11.0	11.6
Architects, except landscape and naval	17-1011	Line item	128.8	133.9	5.1	4.0	2.5	4.5	7	3.3	5.9	9.2	9.7
Landscape architects	17-1012	Line item	24.7	26.2	1.5	6.2	2.5	4.5	7	0.6	1.1	1.8	1.9
Surveyors, cartographers, and photogrammetrists	17-1020	Summary	57.4	64.8	7.4	13.0	2.9	4.1	7	1.8	2.5	4.3	5.0
Cartographers and photogrammetrists	17-1021	Line item	12.6	15.0	2.4	19.4	2.9	4.1	7	0.4	0.6	1.0	1.2
Surveyors	17-1022	Line item	44.8	49.8	5.0	11.2	2.9	4.1	7	1.4	1.9	3.3	3.8
Engineers	17-2000	Summary	1,681.0	1,819.7	138.7	8.3	2.2	4.2	6.4	38.5	74.1	112.7	126.6
Aerospace engineers	17-2011	Line item	69.6	73.8	4.2	6.1	2.3	3.6	5.8	1.6	2.6	4.2	4.6
Agricultural engineers	17-2021	Line item	2.7	2.9	0.2	8.1	2.3	4.0	6.3	0.1	0.1	0.2	0.2
Biomedical engineers	17-2031	Line item	21.3	22.8	1.5	7.2	2.2	4.3	6.5	0.5	1.0	1.4	1.6



Chemical engineers	17-2041	Line item	32.7	35.2	2.5	7.6	2.2	4.1	6.3	0.7	1.4	2.1	2.4
Civil engineers	17-2051	Line item	303.5	335.7	32.1	10.6	2.2	4.9	7.1	6.9	15.7	22.7	25.9
Computer hardware engineers	17-2061	Line item	73.6	77.6	4.0	5.5	2.0	4.2	6.2	1.5	3.2	4.7	5.1
Electrical and electronics engineers	17-2070	Summary	324.6	345.8	21.2	6.5	2.3	4.0	6.3	7.6	13.4	21.0	23.1
Electrical engineers	17-2071	Line item	188.3	204.5	16.2	8.6	2.3	4.0	6.3	4.4	7.9	12.3	13.9
Electronics engineers, except computer	17-2072	Line item	136.3	141.3	5.1	3.7	2.3	4.0	6.3	3.1	5.6	8.7	9.2
Environmental engineers	17-2081	Line item	53.8	58.3	4.4	8.3	2.3	4.1	6.4	1.3	2.3	3.6	4.0
Industrial engineers, including health and safety engineers and inspectors	17-2110	Summary	283.8	311.2	27.3	9.6	2.3	4.1	6.4	6.8	12.1	18.9	21.6
Industrial engineers	17-2111	Line item	25.9	28.1	2.2	8.6	2.3	4.1	6.4	0.6	1.1	1.7	1.9
Industrial engineers	17-2112	Line item	257.9	283.0	25.1	9.7	2.3	4.1	6.4	6.2	11.0	17.2	19.7
Marine engineers and naval architects	17-2121	Line item	8.2	9.2	1.0	11.5	2.3	3.7	6	0.2	0.3	0.5	0.6
Materials engineers	17-2131	Line item	27.0	27.5	0.4	1.6	3.1	3.8	7	0.9	1.0	1.9	1.9
Mechanical engineers	17-2141	Line item	288.8	314.1	25.3	8.8	2.0	4.2	6.2	6.1	12.5	18.7	21.2
engineers	17-2151	Line item	7.3	7.9	0.5	7.2	1.7	5.4	7.2	0.1	0.4	0.5	0.6
Nuclear engineers	17-2161	Line item	17.7	18.4	0.7	3.8	2.7	4.6	7.3	0.5	0.8	1.3	1.4
Petroleum engineers	17-2171	Line item	33.7	38.6	4.9	14.5	1.8	4.6	6.4	0.7	1.7	2.3	2.8
Engineers, all other	17-2199	Line item	132.5	140.8	8.2	6.2	2.3	4.0	6.3	3.1	5.5	8.7	9.5
Drafters, engineering technicians, and mapping technicians	17-3000	Summary	709.2	749.6	40.4	5.7	3.1	5.5	8.6	22.9	39.9	62.7	66.8
Drafters	17-3010	Summary	207.7	222.2	14.5	7.0	3.0	5.4	8.4	6.3	11.6	18.0	19.4
Architectural and civil drafters	17-3011	Line item	99.6	107.7	8.0	8.1	3.0	5.4	8.4	3.1	5.6	8.7	9.5
Electrical and electronics drafters	17-3012	Line item	27.4	29.2	1.8	6.7	3.0	5.4	8.4	0.8	1.5	2.4	2.5
Mechanical drafters	17-3013	Line item	64.8	68.1	3.3	5.1	3.0	5.4	8.4	2.0	3.6	5.5	5.9
Drafters, all other	17-3019	Line item	15.9	17.2	1.3	7.9	3.0	5.4	8.4	0.5	0.9	1.4	1.5
Engineering technicians, except drafters	17-3020	Summary	441.3	460.9	19.6	4.4	3.2	5.3	8.5	14.4	23.8	38.2	40.1
Aerospace engineering and operations technicians	17-3021	Line item	12.1	12.9	0.8	6.6	3.2	5.3	8.5	0.4	0.7	1.1	1.1
Civil engineering technicians	17-3022	Line item	74.5	81.1	6.6	8.8	3.2	5.3	8.5	2.5	4.1	6.6	7.2
Electrical and electronics engineering technicians	17-3023	Line item	137.0	139.8	2.8	2.0	3.2	5.3	8.5	4.4	7.3	11.7	12.0
Electro-mechanical technicians	17-3024	Line item	13.8	14.3	0.5	3.5	3.2	5.3	8.5	0.5	0.7	1.2	1.2
Environmental engineering technicians	17-3025	Line item	17.0	19.1	2.2	12.9	3.2	5.3	8.5	0.6	1.0	1.5	1.7
Industrial engineering technicians	17-3026	Line item	63.9	64.3	0.4	0.6	3.2	5.3	8.5	2.0	3.4	5.4	5.5
Mechanical engineering technicians	17-3027	Line item	46.1	48.4	2.3	5.0	3.2	5.3	8.5	1.5	2.5	4.0	4.2
Engineering technicians, except drafters, all other	17-3029	Line item	76.8	80.8	4.0	5.2	3.2	5.3	8.5	2.5	4.1	6.7	7.1
Surveying and mapping technicians	17-3031	Line item	60.2	66.6	6.4	10.6	3.3	7.1	10.4	2.1	4.5	6.6	7.2
Life, physical, and social science occupations	19-0000	Summary	1,299.5	1,422.4	122.9	9.5	2.6	6.2	8.8	35.4	84.8	120.2	132.5
Life scientists	19-1000	Summary	325.4	357.8	32.4	10.0	2.0	6.5	8.5	7.0	22.1	29.1	32.4
Agricultural and food scientists	19-1010	Summary	43.0	46.2	3.2	7.4	2.7	7.3	9.9	1.2	3.2	4.4	4.7
Animal scientists	19-1011	Line item	6.1	6.4	0.4	6.0	2.7	7.3	9.9	0.2	0.5	0.6	0.7
Food scientists and technologists	19-1012	Line item	17.0	18.0	1.0	6.0	2.7	7.3	9.9	0.5	1.3	1.7	1.8
Soil and plant scientists	19-1013	Line item	19.9	21.7	1.8	9.0	2.7	7.3	9.9	0.6	1.5	2.1	2.2
Biological scientists	19-1020	Summary	112.8	122.7	9.9	8.8	2.0	6.4	8.5	2.4	7.6	10.0	11.0
Biochemists and biophysicists	19-1021	Line item	31.5	35.0	3.6	11.3	2.0	6.4	8.5	0.7	2.1	2.8	3.2
Microbiologists	19-1022	Line item	23.2	25.1	1.9	8.0	2.0	6.4	8.5	0.5	1.6	2.0	2.2
Zoologists and wildlife biologists	19-1023	Line item	19.4	20.8	1.5	7.5	2.0	6.4	8.5	0.4	1.3	1.7	1.8
Biological scientists, all other	19-1029	Line item	38.7	41.8	3.1	7.9	2.0	6.4	8.5	0.8	2.6	3.4	3.7
Conservation scientists and foresters	19-1030	Summary	34.6	36.6	2.1	6.0	2.1	6.1	8.2	0.7	2.2	2.9	3.1
Conservation scientists	19-1031	Line item	22.3	23.8	1.5	6.5	2.1	6.1	8.2	0.5	1.4	1.9	2.0
Foresters	19-1032	Line item	12.3	12.9	0.6	5.2	2.1	6.1	8.2	0.3	0.8	1.0	1.1
Medical scientists	19-1040	Summary	126.1	142.5	16.4	13.0	1.8	6.4	8.2	2.5	8.5	11.0	12.7
Epidemiologists	19-1041	Line item	6.1	6.6	0.5	8.7	1.8	6.4	8.2	0.1	0.4	0.5	0.6
Medical scientists, except epidemiologists	19-1042	Line item	120.0	135.9	15.9	13.2	1.8	6.4	8.2	2.4	8.1	10.5	12.1
Life scientists, all other	19-1099	Line item	8.9	9.7	0.8	9.0	1.8	6.4	8.2	0.2	0.6	0.8	0.8
Physical scientists	19-2000	Summary	278.2	305.1	26.8	9.6	2.2	6.4	8.7	6.6	18.7	25.2	27.9
Astronomers and physicists	19-2010	Summary	19.9	22.7	2.8	14.0	2.0	5.6	7.7	0.4	1.2	1.6	1.9
Astronomers	19-2011	Line item	2.0	2.2	0.2	10.0	2.0	5.6	7.7	0.0	0.1	0.2	0.2
Physicists	19-2012	Line item	17.9	20.5	2.6	14.5	2.0	5.6	7.7	0.4	1.1	1.5	1.7
Atmospheric and space scientists	19-2021	Line item	10.4	11.7	1.3	12.0	2.4	4.6	7	0.3	0.5	0.8	0.9
Chemists and materials scientists	19-2030	Summary	96.2	102.5	6.3	6.5	2.5	6.3	8.8	2.5	6.2	8.7	9.4
Chemists	19-2031	Line item	88.3	94.0	5.7	6.5	2.5	6.3	8.8	2.3	5.7	8.0	8.6
Materials scientists	19-2032	Line item	7.9	8.5	0.6	7.1	2.5	6.3	8.8	0.2	0.5	0.7	0.8
Environmental scientists and geoscientists	19-2040	Summary	128.2	143.2	15.0	11.7	2.2	6.9	9	2.9	9.3	12.2	13.8
Environmental scientists and specialists, including health	19-2041	Line item	89.5	99.3	9.9	11.1	2.2	6.9	9	2.0	6.5	8.5	9.5
Geoscientists, except hydrologists and geographers	19-2042	Line item	32.0	36.5	4.5	13.9	2.2	6.9	9	0.7	2.4	3.1	3.5
Hydrologists	19-2043	Line item	6.7	7.4	0.7	9.9	2.2	6.9	9	0.2	0.5	0.6	0.7
Physical scientists, all other	19-2099	Line item	23.5	25.0	1.5	6.4	1.8	5.9	7.6	0.4	1.4	1.8	2.0

Social scientists and related workers	19-3000	Summary	303.8	335.6	31.8	10.5	2.5	4.8	7.2	7.9	15.3	23.2	26.4
Economists	19-3011	Line item	21.3	22.5	1.3	6.0	1.4	5.5	6.9	0.3	1.2	1.5	1.6
Survey researchers	19-3022	Line item	14.6	14.7	0.1	0.9	2.9	6.1	9	0.4	0.9	1.3	1.3
Psychologists	19-3030	Summary	166.6	189.2	22.6	13.6	2.5	3.8	6.3	4.5	6.8	11.3	13.5
Clinical, counseling, and school psychologists	19-3031	Line item	147.5	168.4	20.9	14.2	2.5	3.8	6.3	4.0	6.0	10.0	12.1
Industrial-organizational psychologists	19-3032	Line item	1.7	1.8	0.1	5.6	2.5	3.8	6.3	0.0	0.1	0.1	0.1
Psychologists, all other	19-3039	Line item	17.4	19.0	1.6	9.1	2.5	3.8	6.3	0.5	0.7	1.2	1.3
Sociologists	19-3041	Line item	3.5	3.5	0.0	0.1	2.9	6.1	9	0.1	0.2	0.3	0.3
Urban and regional planners	19-3051	Line item	36.0	40.6	4.6	12.8	2.0	6.0	8	0.8	2.3	3.1	3.5
Miscellaneous social scientists and related workers	19-3090	Summary	61.9	65.0	3.2	5.1	2.9	6.1	9	1.8	3.9	5.7	6.0
Anthropologists and archeologists	19-3091	Line item	7.6	7.9	0.3	3.3	2.9	6.1	9	0.2	0.5	0.7	0.7
Geographers	19-3092	Line item	1.5	1.6	0.1	6.2	2.9	6.1	9	0.0	0.1	0.1	0.2
Historians	19-3093	Line item	3.3	3.5	0.2	5.4	2.9	6.1	9	0.1	0.2	0.3	0.3
Political scientists	19-3094	Line item	7.3	7.4	0.2	2.1	2.9	6.1	9	0.2	0.5	0.7	0.7
Social scientists and related workers, all other	19-3099	Line item	42.1	44.6	2.5	5.9	2.9	6.1	9	1.2	2.7	3.9	4.1
Life, physical, and social science technicians	19-4000	Summary	392.1	424.0	31.9	8.1	3.4	7.0	10.5	14.1	28.6	42.7	45.9
Agricultural and food science technicians	19-4011	Line item	27.5	29.2	1.7	6.3	2.8	7.1	9.9	0.8	2.0	2.8	3.0
Biological technicians	19-4021	Line item	82.1	90.4	8.4	10.2	2.6	6.8	9.4	2.2	5.9	8.1	8.9
Chemical technicians	19-4031	Line item	67.3	69.9	2.7	3.9	3.3	5.9	9.2	2.3	4.0	6.3	6.6
Geological and petroleum technicians	19-4041	Line item	15.0	17.4	2.5	16.4	2.8	7.2	10	0.4	1.2	1.6	1.9
Nuclear technicians	19-4051	Line item	6.9	6.9	0.0	0.6	4.0	7.5	11.5	0.3	0.5	0.8	0.8
Social science research assistants	19-4061	Line item	34.0	35.4	1.4	4.1	4.0	7.5	11.5	1.4	2.6	4.0	4.1
Miscellaneous life, physical, and social science technicians including health	19-4090	Summary	159.3	174.6	15.3	9.6	4.0	7.5	11.5	6.7	12.4	19.1	20.7
Forensic science technicians	19-4091	Line item	34.6	38.8	4.1	11.9	4.0	7.5	11.5	1.5	2.7	4.2	4.6
Forest and conservation technicians	19-4092	Line item	15.4	18.0	2.6	16.8	4.0	7.5	11.5	0.7	1.2	1.9	2.2
Life, physical, and social science technicians, all other	19-4099	Line item	33.2	34.5	1.3	3.8	4.0	7.5	11.5	1.4	2.5	3.9	4.0
Community and social service occupations	21-0000	Summary	76.1	83.4	7.3	9.6	4.0	7.5	11.5	3.2	5.9	9.1	9.9
service specialists	21-1000	Summary	2,570.7	2,917.9	347.2	13.5	4.0	6.6	10.7	110.0	182.3	292.3	327.0
Counselors	21-1010	Summary	2,126.4	2,439.1	312.7	14.7	3.9	6.6	10.5	88.0	151.4	239.4	270.7
Substance abuse and behavioral disorder counselors	21-1011	Line item	744.5	853.5	109.1	14.7	3.7	6.5	10.2	29.4	52.3	81.6	92.5
Educational, guidance, school, and vocational counselors	21-1012	Line item	102.4	122.8	20.4	19.9	3.7	6.5	10.2	4.1	7.4	11.5	13.5
Marriage and family therapists	21-1013	Line item	291.7	324.7	33.0	11.3	3.7	6.5	10.2	11.3	20.2	31.5	34.8
Mental health counselors	21-1014	Line item	41.5	49.9	8.4	20.2	3.7	6.5	10.2	1.7	3.0	4.7	5.5
Rehabilitation counselors	21-1015	Line item	157.7	188.9	31.2	19.8	3.7	6.5	10.2	6.4	11.3	17.7	20.8
Counselors, all other	21-1019	Line item	119.3	130.9	11.6	9.7	3.7	6.5	10.2	4.6	8.2	12.8	13.9
Social workers	21-1020	Summary	31.8	36.3	4.5	14.3	3.7	6.5	10.2	1.3	2.2	3.5	3.9
Child, family, and school social workers	21-1021	Line item	682.1	784.2	102.1	15.0	3.6	6.4	10	26.4	46.6	73.0	83.2
Healthcare social workers	21-1022	Line item	317.6	359.7	42.1	13.3	3.6	6.4	10	12.2	21.5	33.7	37.9
Mental health and substance abuse social workers	21-1023	Line item	176.5	209.3	32.7	18.5	3.6	6.4	10	6.9	12.3	19.2	22.5
Social workers, all other	21-1029	Line item	123.9	146.1	22.2	17.9	3.6	6.4	10	4.9	8.6	13.4	15.7
Miscellaneous community and social service specialists	21-1090	Summary	64.0	69.0	5.0	7.9	3.6	6.4	10	2.4	4.2	6.6	7.1
Health educators	21-1091	Line item	699.9	801.5	101.6	14.5	4.3	7.0	11.3	32.3	52.6	84.9	95.0
Probation officers and correctional treatment specialists	21-1092	Line item	61.0	69.9	8.8	14.5	4.5	7.4	11.9	3.0	4.9	7.8	8.7
Social and human service assistants	21-1093	Line item	91.3	96.5	5.2	5.7	3.0	5.3	8.3	2.8	5.0	7.8	8.3
Community health workers	21-1094	Line item	389.8	453.7	63.9	16.4	4.5	7.2	11.6	18.8	30.2	49.0	55.4
Community and social service specialists, all other	21-1099	Line item	57.5	67.8	10.4	18.1	4.5	7.4	11.9	2.8	4.6	7.5	8.5
Religious workers	21-2000	Summary	100.3	113.5	13.2	13.2	4.5	7.4	11.9	4.8	7.9	12.8	14.1
Clergy	21-2011	Line item	444.2	478.7	34.5	7.8	4.8	6.7	11.5	22.0	30.9	52.9	56.3
Directors, religious activities and education	21-2021	Line item	243.9	263.6	19.6	8.0	4.6	6.1	10.7	11.6	15.6	27.2	29.2
Religious workers, all other	21-2099	Line item	147.1	157.8	10.8	7.3	4.4	7.6	12	6.8	11.6	18.3	19.4
Legal occupations	23-0000	Summary	53.2	57.3	4.1	7.7	6.5	6.8	13.3	3.6	3.7	7.3	7.7
Lawyers, judges, and related workers	23-1000	Summary	1,283.3	1,409.1	125.8	9.8	2.4	3.5	5.9	32.9	46.5	79.4	91.9
Lawyers and judicial law clerks	23-1010	Summary	858.2	936.9	78.7	9.2	2.0	2.2	4.2	17.7	19.6	37.3	45.2
Lawyers	23-1011	Line item	806.5	882.2	75.6	9.4	2.0	2.2	4.2	16.7	18.4	35.1	42.7
Judicial law clerks	23-1012	Line item	792.5	867.4	74.8	9.4	2.0	2.2	4.1	16.5	18.0	34.4	41.9
Judges, magistrates, and other judicial workers	23-1020	Summary	14.0	14.8	0.8	5.5	1.4	3.4	4.9	0.2	0.5	0.7	0.8
officers	23-1021	Line item	51.7	54.7	3.1	6.0	2.0	2.2	4.1	1.1	1.2	2.2	2.5
Arbitrators, mediators, and conciliators	23-1022	Line item	15.4	16.0	0.6	4.0	2.0	2.2	4.1	0.3	0.3	0.7	0.7
Judges, magistrate judges, and magistrates	23-1023	Line item	7.8	8.7	0.9	11.3	2.0	2.2	4.1	0.2	0.2	0.3	0.4
Legal support workers	23-2000	Summary	28.4	30.0	1.6	5.6	2.0	2.2	4.1	0.6	0.6	1.2	1.4
Paralegals and legal assistants	23-2011	Line item	425.1	472.2	47.1	11.1	3.4	6.0	9.4	15.1	26.9	42.0	46.7
Miscellaneous legal support workers	23-2090	Summary	285.6	327.4	41.8	14.6	3.3	6.7	10	10.1	20.4	30.5	34.7
Court reporters	23-2091	Line item	139.5	144.7	5.3	3.8	3.5	4.6	8.1	5.0	6.5	11.5	12.0
			19.6	20.3	0.6	3.3	3.5	4.6	8.1	0.7	0.9	1.6	1.7

Title examiners, abstractors, and searchers	23-2093	Line item	69.0	71.7	2.8	4.0	3.5	4.6	8.1	2.5	3.2	5.7	6.0
Legal support workers, all other	23-2099	Line item	50.9	52.7	1.8	3.6	3.5	4.6	8.1	1.8	2.4	4.2	4.4
Education, training, and library occupations	25-0000	Summary	9,426.5	10,303.4	876.8	9.3	4.3	4.1	8.4	420.9	408.0	829.0	916.7
Postsecondary teachers	25-1000	Summary	1,871.4	2,107.9	236.6	12.6	3.7	3.8	7.5	72.9	75.9	148.7	172.4
Business teachers, postsecondary	25-1011	Line item	104.2	123.0	18.9	18.1	3.7	3.8	7.5	4.2	4.3	8.5	10.4
Math and computer teachers, postsecondary	25-1020	Summary	100.6	109.4	8.8	8.8	3.7	3.8	7.5	3.8	4.0	7.8	8.7
Computer science teachers, postsecondary	25-1021	Line item	39.7	42.8	3.2	8.0	3.7	3.8	7.5	1.5	1.6	3.1	3.4
Mathematical science teachers, postsecondary	25-1022	Line item	60.9	66.6	5.6	9.2	3.7	3.8	7.5	2.3	2.4	4.8	5.3
Engineering and architecture teachers, postsecondary	25-1030	Summary	57.1	65.0	7.9	13.9	3.7	3.8	7.5	2.2	2.3	4.6	5.4
Architecture teachers, postsecondary	25-1031	Line item	9.5	10.5	1.0	10.6	3.7	3.8	7.5	0.4	0.4	0.7	0.8
Engineering teachers, postsecondary	25-1032	Line item	47.6	54.6	6.9	14.5	3.7	3.8	7.5	1.9	1.9	3.8	4.5
Life sciences teachers, postsecondary	25-1040	Summary	77.1	87.6	10.5	13.7	3.7	3.8	7.5	3.0	3.1	6.2	7.2
Agricultural sciences teachers, postsecondary	25-1041	Line item	12.6	13.6	0.9	7.5	3.7	3.8	7.5	0.5	0.5	1.0	1.1
Biological science teachers, postsecondary	25-1042	Line item	62.3	71.7	9.4	15.1	3.7	3.8	7.5	2.5	2.6	5.0	6.0
postsecondary	25-1043	Line item	2.2	2.3	0.2	7.7	3.7	3.8	7.5	0.1	0.1	0.2	0.2
Physical sciences teachers, postsecondary	25-1050	Summary	64.0	70.2	6.3	9.8	3.7	3.8	7.5	2.5	2.6	5.0	5.6
teachers, postsecondary	25-1051	Line item	13.1	14.4	1.3	9.5	3.7	3.8	7.5	0.5	0.5	1.0	1.2
Chemistry teachers, postsecondary	25-1052	Line item	26.3	28.9	2.6	9.9	3.7	3.8	7.5	1.0	1.1	2.1	2.3
Environmental science teachers, postsecondary	25-1053	Line item	6.9	7.6	0.7	9.6	3.7	3.8	7.5	0.3	0.3	0.5	0.6
Physics teachers, postsecondary	25-1054	Line item	17.6	19.4	1.8	10.0	3.7	3.8	7.5	0.7	0.7	1.4	1.6
Social sciences teachers, postsecondary	25-1060	Summary	141.3	158.0	16.7	11.8	3.7	3.8	7.5	5.5	5.7	11.2	12.9
Anthropology and archeology teachers, postsecondary	25-1061	Line item	7.1	7.8	0.7	10.0	3.7	3.8	7.5	0.3	0.3	0.6	0.6
Area, ethnic, and cultural studies teachers, postsecondary	25-1062	Line item	11.5	12.7	1.2	10.5	3.7	3.8	7.5	0.4	0.5	0.9	1.0
Economics teachers, postsecondary	25-1063	Line item	16.5	18.2	1.8	10.6	3.7	3.8	7.5	0.6	0.7	1.3	1.5
Geography teachers, postsecondary	25-1064	Line item	5.0	5.4	0.4	8.4	3.7	3.8	7.5	0.2	0.2	0.4	0.4
Political science teachers, postsecondary	25-1065	Line item	21.2	23.4	2.2	10.5	3.7	3.8	7.5	0.8	0.9	1.7	1.9
Psychology teachers, postsecondary	25-1066	Line item	46.9	54.0	7.1	15.1	3.7	3.8	7.5	1.8	1.9	3.8	4.5
Sociology teachers, postsecondary	25-1067	Line item	17.9	19.6	1.7	9.8	3.7	3.8	7.5	0.7	0.7	1.4	1.6
Social sciences teachers, postsecondary, all other	25-1069	Line item	15.3	16.8	1.5	10.0	3.7	3.8	7.5	0.6	0.6	1.2	1.3
Health teachers, postsecondary	25-1070	Summary	301.4	378.2	76.8	25.5	3.7	3.8	7.5	12.4	13.0	25.4	33.1
Health specialties teachers, postsecondary	25-1071	Line item	233.5	294.0	60.5	25.9	3.7	3.8	7.5	9.7	10.1	19.7	25.8
Nursing instructors and teachers, postsecondary	25-1072	Line item	67.9	84.2	16.3	24.0	3.7	3.8	7.5	2.8	2.9	5.7	7.3
Education and library science teachers, postsecondary	25-1080	Summary	80.5	88.7	8.2	10.2	3.7	3.8	7.5	3.1	3.2	6.3	7.1
Education teachers, postsecondary	25-1081	Line item	74.5	82.2	7.7	10.3	3.7	3.8	7.5	2.9	3.0	5.9	6.6
Library science teachers, postsecondary	25-1082	Line item	6.0	6.5	0.5	9.0	3.7	3.8	7.5	0.2	0.2	0.5	0.5
postsecondary	25-1110	Summary	53.4	59.6	6.2	11.7	3.7	3.8	7.5	2.1	2.2	4.2	4.8
postsecondary	25-1111	Line item	17.3	19.4	2.2	12.5	3.7	3.8	7.5	0.7	0.7	1.4	1.6
Law teachers, postsecondary	25-1112	Line item	21.2	23.8	2.6	12.2	3.7	3.8	7.5	0.8	0.9	1.7	1.9
Social work teachers, postsecondary	25-1113	Line item	14.9	16.3	1.5	9.9	3.7	3.8	7.5	0.6	0.6	1.2	1.3
postsecondary	25-1120	Summary	334.9	372.1	37.2	11.1	3.7	3.8	7.5	12.9	13.5	26.4	30.1
Art, drama, and music teachers, postsecondary	25-1121	Line item	122.5	137.2	14.7	12.0	3.7	3.8	7.5	4.8	5.0	9.7	11.2
Communications teachers, postsecondary	25-1122	Line item	34.1	37.5	3.4	10.0	3.7	3.8	7.5	1.3	1.4	2.7	3.0
English language and literature teachers, postsecondary	25-1123	Line item	84.6	92.9	8.3	9.8	3.7	3.8	7.5	3.3	3.4	6.6	7.5
Foreign language and literature teachers, postsecondary	25-1124	Line item	35.0	39.1	4.1	11.8	3.7	3.8	7.5	1.4	1.4	2.8	3.2
History teachers, postsecondary	25-1125	Line item	26.9	29.7	2.8	10.3	3.7	3.8	7.5	1.0	1.1	2.1	2.4
Philosophy and religion teachers, postsecondary	25-1126	Line item	31.8	35.7	3.9	12.3	3.7	3.8	7.5	1.2	1.3	2.5	2.9
Miscellaneous postsecondary teachers	25-1190	Summary	557.0	596.0	39.0	7.0	3.7	3.8	7.5	21.1	22.0	43.1	47.0
Graduate teaching assistants	25-1191	Line item	168.3	181.2	12.9	7.7	3.7	3.8	7.5	6.4	6.7	13.1	14.4
Home economics teachers, postsecondary	25-1192	Line item	3.5	3.8	0.3	7.8	3.7	3.8	7.5	0.1	0.1	0.3	0.3
Recreation and fitness studies teachers, postsecondary	25-1193	Line item	20.6	22.6	2.0	9.6	3.7	3.8	7.5	0.8	0.8	1.6	1.8
Vocational education teachers, postsecondary	25-1194	Line item	128.0	129.7	1.7	1.3	3.7	3.8	7.5	4.7	4.9	9.6	9.8
Postsecondary teachers, all other	25-1199	Line item	236.5	258.7	22.2	9.4	3.7	3.8	7.5	9.1	9.4	18.5	20.7
teachers	25-2000	Summary	4,264.8	4,598.6	333.8	7.8	3.4	3.9	7.3	150.4	175.0	325.4	358.7
Preschool and kindergarten teachers	25-2010	Summary	633.0	695.3	62.3	9.8	4.3	5.3	9.6	28.6	35.5	64.1	70.3
Preschool teachers, except special education	25-2011	Line item	478.5	528.6	50.1	10.5	4.3	5.3	9.6	21.7	26.9	48.6	53.6
Kindergarten teachers, except special education	25-2012	Line item	154.4	166.7	12.2	7.9	4.3	5.3	9.6	6.9	8.6	15.5	16.7
Elementary and middle school teachers	25-2020	Summary	2,053.9	2,206.2	152.3	7.4	3.3	3.7	7	70.3	78.9	149.1	164.4
Elementary school teachers, except special education	25-2021	Line item	1,410.9	1,514.9	104.1	7.4	3.3	3.7	7	48.3	54.2	102.4	112.8
career/technical education	25-2022	Line item	630.3	677.7	47.3	7.5	3.3	3.7	7	21.6	24.2	45.8	50.5
Career/technical education teachers, middle school	25-2023	Line item	12.7	13.6	0.9	7.3	3.3	3.7	7	0.4	0.5	0.9	1.0
Secondary school teachers	25-2030	Summary	1,097.4	1,179.2	81.8	7.5	3.1	3.7	6.8	34.9	42.5	77.3	85.5
career/technical education	25-2031	Line item	1,018.7	1,095.5	76.8	7.5	3.1	3.7	6.8	32.4	39.4	71.8	79.5
Career/technical education teachers, secondary school	25-2032	Line item	78.7	83.7	5.0	6.4	3.1	3.7	6.8	2.5	3.0	5.5	6.0
Special education teachers	25-2050	Summary	480.6	517.9	37.3	7.8	3.3	3.6	7	16.6	18.2	34.8	38.5

Special education teachers, preschool school	25-2051	Line item	29.2	32.5	3.3	11.2	3.3	3.6	7	1.0	1.1	2.2	2.5
Special education teachers, middle school	25-2052	Line item	188.9	202.8	13.9	7.4	3.3	3.6	7	6.5	7.1	13.7	15.0
Special education teachers, secondary school	25-2053	Line item	89.3	95.7	6.3	7.1	3.3	3.6	7	3.1	3.4	6.4	7.1
Special education teachers, all other	25-2054	Line item	131.9	141.6	9.7	7.4	3.3	3.6	7	4.5	5.0	9.5	10.5
Special education teachers, all other	25-2059	Line item	41.3	45.4	4.1	9.8	3.3	3.6	7	1.4	1.6	3.0	3.4
Other teachers and instructors and instructors	25-3000	Summary	1,416.2	1,557.6	141.4	10.0	6.1	4.7	10.8	90.6	69.6	160.2	174.3
Other teachers and instructors and instructors	25-3011	Line item	68.2	64.3	-3.8	-5.6	6.1	4.7	10.8	4.0	3.1	7.1	6.8
Self-enrichment education teachers	25-3021	Line item	354.2	406.9	52.7	14.9	6.1	4.7	10.8	23.2	17.8	41.0	46.3
Teachers and instructors, all other	25-3099	Line item	993.9	1,086.4	92.5	9.3	6.1	4.7	10.8	63.4	48.7	112.1	121.3
Librarians, curators, and archivists	25-4000	Summary	268.4	293.9	25.5	9.5	6.2	4.5	10.7	17.4	12.6	30.0	32.6
Archivists, curators, and museum technicians	25-4010	Summary	31.0	35.1	4.2	13.4	4.2	5.8	9.9	1.4	1.9	3.3	3.7
Archivists	25-4011	Line item	6.8	7.8	1.0	14.3	4.2	5.8	9.9	0.3	0.4	0.7	0.8
Curators	25-4012	Line item	12.4	14.1	1.7	14.0	4.2	5.8	9.9	0.5	0.8	1.3	1.5
Museum technicians and conservators	25-4013	Line item	11.8	13.3	1.5	12.4	4.2	5.8	9.9	0.5	0.7	1.2	1.4
Librarians	25-4021	Line item	138.2	150.6	12.4	8.9	5.5	3.7	9.2	7.9	5.4	13.3	14.5
Library technicians	25-4031	Line item	99.2	108.2	9.0	9.1	7.9	5.1	13	8.2	5.3	13.5	14.4
Other education, training, and library occupations	25-9000	Summary	1,605.7	1,745.3	139.6	8.7	5.4	4.5	9.8	89.7	75.0	164.6	178.6
Audio-visual and multimedia collections specialists	25-9011	Line item	11.3	12.3	1.0	8.7	4.8	4.1	8.8	0.6	0.5	1.0	1.1
Farm and home management advisors	25-9021	Line item	10.4	11.2	0.8	7.3	4.8	4.1	8.8	0.5	0.4	1.0	1.0
Instructional coordinators	25-9031	Line item	163.2	179.7	16.5	10.1	4.8	4.1	8.8	8.1	7.0	15.2	16.8
Teacher assistants	25-9041	Line item	1,308.1	1,417.6	109.5	8.4	5.5	4.6	10.1	74.8	62.2	137.0	147.9
Education, training, and library workers, all other	25-9099	Line item	112.7	124.5	11.8	10.5	4.8	4.1	8.8	5.6	4.9	10.5	11.7
Arts, design, entertainment, sports, and media occupations	27-0000	Summary	2,772.9	2,946.5	173.6	6.3	4.1	5.5	9.5	116.0	156.3	272.4	289.7
Art and design workers	27-1000	Summary	833.7	874.8	41.1	4.9	3.9	4.9	8.8	33.2	41.9	75.1	79.2
Artists and related workers	27-1010	Summary	217.4	235.8	18.4	8.5	4.9	2.9	7.8	11.1	6.6	17.7	19.5
Art directors	27-1011	Line item	90.3	97.0	6.7	7.4	4.9	2.9	7.8	4.6	2.7	7.3	8.0
Craft artists	27-1012	Line item	12.5	13.3	0.8	6.3	4.9	2.9	7.8	0.6	0.4	1.0	1.1
Fine artists, including painters, sculptors, and illustrators	27-1013	Line item	28.0	30.4	2.4	8.6	4.9	2.9	7.8	1.4	0.9	2.3	2.5
Multimedia artists and animators	27-1014	Line item	73.7	81.3	7.7	10.4	4.9	2.9	7.8	3.8	2.3	6.0	6.8
Artists and related workers, all other	27-1019	Line item	12.8	13.7	0.9	6.9	4.9	2.9	7.8	0.6	0.4	1.0	1.1
Designers	27-1020	Summary	616.3	639.0	22.7	3.7	3.5	5.6	9.2	22.2	35.3	57.5	59.7
Commercial and industrial designers	27-1021	Line item	39.7	41.6	2.0	5.0	3.5	5.6	9.2	1.4	2.3	3.7	3.9
Fashion designers	27-1022	Line item	23.8	24.5	0.7	3.1	3.5	5.6	9.2	0.9	1.4	2.2	2.3
Floral designers	27-1023	Line item	55.0	51.7	-3.2	-5.9	3.5	5.6	9.2	1.9	3.0	4.9	4.6
Graphic designers	27-1024	Line item	266.3	278.8	12.5	4.7	3.5	5.6	9.2	9.6	15.3	25.0	26.2
Interior designers	27-1025	Line item	66.5	69.8	3.3	4.9	3.5	5.6	9.2	2.4	3.8	6.2	6.6
Merchandise displayers and window trimmers	27-1026	Line item	141.4	146.8	5.3	3.8	3.5	5.6	9.2	5.1	8.1	13.2	13.7
Set and exhibit designers	27-1027	Line item	14.6	16.2	1.6	10.9	3.5	5.6	9.2	0.5	0.9	1.4	1.6
Designers, all other	27-1029	Line item	9.0	9.5	0.6	6.4	3.5	5.6	9.2	0.3	0.5	0.8	0.9
Entertainers and performers, sports and related workers	27-2000	Summary	801.9	882.0	80.1	10.0	5.0	5.9	10.9	42.4	49.4	91.9	99.9
Actors, producers, and directors	27-2010	Summary	198.5	222.1	23.6	11.9	3.2	5.8	9	6.8	12.2	19.0	21.4
Actors	27-2011	Line item	63.8	71.3	7.5	11.7	4.8	5.0	9.8	3.2	3.4	6.6	7.4
Producers and directors	27-2012	Line item	134.7	150.8	16.1	12.0	2.5	6.2	8.7	3.6	8.8	12.4	14.0
Athletes, coaches, umpires, and related workers	27-2020	Summary	309.0	346.6	37.5	12.1	5.6	7.5	13.1	18.3	24.7	43.0	46.8
Athletes and sports competitors	27-2021	Line item	11.8	12.7	0.8	7.2	5.6	7.5	13.1	0.7	0.9	1.6	1.7
Coaches and scouts	27-2022	Line item	276.1	311.2	35.1	12.7	5.6	7.5	13.1	16.4	22.1	38.5	42.0
Umpires, referees, and other sports officials	27-2023	Line item	21.1	22.7	1.6	7.4	5.6	7.5	13.1	1.2	1.7	2.9	3.0
Dancers and choreographers	27-2030	Summary	20.4	21.3	0.9	4.4	6.2	7.0	13.2	1.3	1.5	2.8	2.8
Dancers	27-2031	Line item	13.5	14.1	0.7	5.0	6.2	7.0	13.2	0.9	1.0	1.8	1.9
Choreographers	27-2032	Line item	6.9	7.1	0.2	3.2	6.2	7.0	13.2	0.4	0.5	0.9	1.0
Musicians, singers, and related workers	27-2040	Summary	247.3	263.2	15.9	6.4	5.8	3.7	9.5	14.7	9.5	24.1	25.7
Music directors and composers	27-2041	Line item	74.8	79.4	4.6	6.1	5.8	3.7	9.5	4.4	2.9	7.3	7.8
Musicians and singers	27-2042	Line item	172.4	183.8	11.3	6.6	5.8	3.7	9.5	10.2	6.6	16.8	18.0
other	27-2099	Line item	26.7	28.9	2.1	8.0	4.7	5.9	10.6	1.3	1.6	2.9	3.2
Media and communication workers	27-3000	Summary	774.8	820.1	45.3	5.8	3.5	5.8	9.3	28.0	46.1	74.0	78.5
Announcers	27-3010	Summary	52.7	48.5	-4.1	-7.8	4.3	5.2	9.5	2.2	2.6	4.8	4.4
Radio and television announcers	27-3011	Line item	41.3	36.8	-4.5	-10.9	4.3	5.2	9.5	1.7	2.0	3.7	3.3
Public address system and other announcers	27-3012	Line item	11.4	11.8	0.4	3.2	4.3	5.2	9.5	0.5	0.6	1.1	1.1
News analysts, reporters and correspondents	27-3020	Summary	50.4	45.6	-4.8	-9.6	3.1	6.6	9.7	1.5	3.2	4.7	4.2
Broadcast news analysts	27-3021	Line item	5.7	5.6	-0.1	-1.0	3.1	6.6	9.7	0.2	0.4	0.5	0.5
Reporters and correspondents	27-3022	Line item	44.7	40.0	-4.8	-10.7	3.1	6.6	9.7	1.3	2.8	4.1	3.6
Public relations specialists	27-3031	Line item	259.6	283.0	23.3	9.0	2.8	6.8	9.6	7.6	18.4	26.0	28.3
Writers and editors	27-3040	Summary	311.0	327.6	16.6	5.3	3.7	5.4	9.1	11.8	17.2	29.0	30.7
Editors	27-3041	Line item	127.4	127.3	-0.1	-0.1	3.3	6.3	9.6	4.2	8.1	12.3	12.3

Technical writers	27-3042	Line item	52.4	58.1	5.7	10.9	3.2	6.0	9.2	1.8	3.3	5.1	5.7
Writers and authors	27-3043	Line item	131.2	142.2	11.0	8.3	4.3	4.3	8.5	5.8	5.8	11.7	12.7
Miscellaneous media and communication workers	27-3090	Summary	101.1	115.4	14.3	14.1	4.5	4.3	8.9	4.9	4.7	9.6	11.0
Interpreters and translators	27-3091	Line item	68.2	79.6	11.4	16.7	4.5	4.3	8.9	3.3	3.2	6.5	7.7
Media and communication workers, all other	27-3099	Line item	32.9	35.8	2.9	8.7	4.5	4.3	8.9	1.6	1.5	3.0	3.3
Media and communication equipment workers	27-4000	Summary	362.5	369.6	7.1	2.0	3.4	5.2	8.6	12.4	18.9	31.4	32.1
operators	27-4010	Summary	135.3	146.0	10.7	7.9	2.8	6.2	9	4.0	8.7	12.6	13.7
Audio and video equipment technicians	27-4011	Line item	83.3	94.0	10.7	12.9	2.8	6.2	9	2.5	5.5	8.0	9.0
Broadcast technicians	27-4012	Line item	34.0	32.9	-1.1	-3.2	2.8	6.2	9	0.9	2.1	3.0	2.9
Radio operators	27-4013	Line item	0.9	0.9	0.0	-1.0	2.8	6.2	9	0.0	0.1	0.1	0.1
Sound engineering technicians	27-4014	Line item	17.0	18.1	1.1	6.3	2.8	6.2	9	0.5	1.1	1.6	1.7
Photographers	27-4021	Line item	147.3	134.9	-12.4	-8.4	4.3	3.5	7.8	6.0	4.9	11.0	9.7
editors	27-4030	Summary	59.3	66.5	7.2	12.1	2.9	6.3	9.3	1.9	4.0	5.8	6.5
Camera operators, television, video, and motion picture	27-4031	Line item	25.1	26.7	1.6	6.4	2.9	6.3	9.3	0.8	1.6	2.4	2.6
Film and video editors	27-4032	Line item	34.2	39.8	5.6	16.3	2.9	6.3	9.3	1.1	2.3	3.4	4.0
Media and communication equipment workers, all other	27-4099	Line item	20.6	22.2	1.6	7.9	2.8	6.2	9	0.6	1.3	1.9	2.1
Healthcare practitioners and technical occupations	29-0000	Summary	8,751.5	10,082.4	1,330.9	15.2	2.7	2.6	5.2	249.6	241.6	491.2	624.3
Health diagnosing and treating practitioners	29-1000	Summary	5,485.4	6,376.7	891.3	16.2	2.4	2.1	4.5	144.2	122.0	266.2	355.3
Chiropractors	29-1011	Line item	47.4	52.4	5.0	10.5	1.7	0.8	2.5	0.8	0.4	1.2	1.7
Dentists	29-1020	Summary	153.5	179.9	26.4	17.2	1.9	0.7	2.6	3.1	1.2	4.3	7.0
Dentists, general	29-1021	Line item	132.8	156.0	23.2	17.5	1.9	0.7	2.6	2.7	1.1	3.8	6.1
Oral and maxillofacial surgeons	29-1022	Line item	6.8	7.9	1.2	17.2	1.9	0.7	2.6	0.1	0.1	0.2	0.3
Orthodontists	29-1023	Line item	6.6	7.7	1.1	17.3	1.9	0.7	2.6	0.1	0.1	0.2	0.3
Prosthodontists	29-1024	Line item	0.9	1.1	0.2	17.2	1.9	0.7	2.6	0.0	0.0	0.0	0.0
Dentists, all other specialists	29-1029	Line item	6.4	7.2	0.8	12.0	1.9	0.7	2.6	0.1	0.1	0.2	0.3
Dietitians and nutritionists	29-1031	Line item	68.0	77.6	9.6	14.1	3.1	2.9	6	2.3	2.1	4.4	5.3
Optometrists	29-1041	Line item	40.2	47.1	7.0	17.3	1.7	1.3	3	0.7	0.6	1.3	2.0
Pharmacists	29-1051	Line item	312.5	330.1	17.6	5.6	2.3	1.9	4.2	7.4	6.2	13.6	15.3
Physicians and surgeons	29-1060	Summary	713.8	820.3	106.5	14.9	1.5	1.1	2.6	11.2	8.5	19.7	30.4
Anesthesiologists	29-1061	Line item	33.0	38.9	5.9	17.8	1.5	1.1	2.6	0.5	0.4	0.9	1.5
Family and general practitioners	29-1062	Line item	134.8	157.1	22.2	16.5	1.5	1.1	2.6	2.1	1.6	3.7	6.0
Internists, general	29-1063	Line item	49.8	58.2	8.4	16.9	1.5	1.1	2.6	0.8	0.6	1.4	2.2
Obstetricians and gynecologists	29-1064	Line item	21.7	25.5	3.9	17.9	1.5	1.1	2.6	0.3	0.3	0.6	1.0
Pediatricians, general	29-1065	Line item	29.6	34.8	5.3	17.8	1.5	1.1	2.6	0.5	0.4	0.8	1.4
Psychiatrists	29-1066	Line item	27.5	31.2	3.6	13.1	1.5	1.1	2.6	0.4	0.3	0.8	1.1
Surgeons	29-1067	Line item	45.0	52.6	7.6	16.8	1.5	1.1	2.6	0.7	0.5	1.3	2.0
Physicians and surgeons, all other	29-1069	Line item	372.4	422.0	49.6	13.3	1.5	1.1	2.6	5.8	4.4	10.2	15.2
Physician assistants	29-1071	Line item	106.2	145.9	39.7	37.4	1.7	3.5	5.3	2.2	4.5	6.7	10.6
Podiatrists	29-1081	Line item	11.0	12.1	1.1	9.7	2.2	2.7	5	0.3	0.3	0.6	0.7
Therapists	29-1120	Summary	723.0	876.7	153.7	21.3	2.1	2.5	4.6	16.6	20.0	36.6	51.9
Occupational therapists	29-1122	Line item	130.4	158.0	27.7	21.2	2.1	2.8	4.8	3.0	4.0	7.0	9.7
Physical therapists	29-1123	Line item	239.8	299.8	60.0	25.0	1.9	2.1	4	5.2	5.6	10.8	16.8
Radiation therapists	29-1124	Line item	19.1	21.3	2.3	11.9	2.5	2.1	4.6	0.5	0.4	0.9	1.2
Recreational therapists	29-1125	Line item	19.2	20.5	1.3	6.5	2.9	2.6	5.5	0.6	0.5	1.1	1.2
Respiratory therapists	29-1126	Line item	130.2	160.6	30.4	23.4	2.4	2.3	4.6	3.4	3.3	6.7	9.8
Speech-language pathologists	29-1127	Line item	145.1	170.5	25.4	17.5	1.8	3.1	4.9	2.9	4.9	7.8	10.3
Exercise physiologists	29-1128	Line item	15.1	17.1	2.0	12.9	2.4	2.9	5.3	0.4	0.5	0.9	1.1
Therapists, all other	29-1129	Line item	24.1	28.9	4.8	19.7	2.4	2.9	5.3	0.6	0.8	1.4	1.9
Veterinarians	29-1131	Line item	79.6	94.0	14.4	18.1	1.9	1.6	3.5	1.6	1.4	3.0	4.5
Registered nurses	29-1141	Line item	2,955.2	3,392.2	437.0	14.8	2.9	2.2	5	90.9	69.0	159.9	203.6
Nurse anesthetists	29-1151	Line item	41.8	48.5	6.7	16.0	1.4	3.3	4.7	0.6	1.5	2.1	2.8
Nurse midwives	29-1161	Line item	6.5	7.8	1.3	20.6	1.9	2.9	4.8	0.1	0.2	0.3	0.5
Nurse practitioners	29-1171	Line item	155.5	211.5	56.0	36.0	1.9	2.9	4.8	3.6	5.3	8.8	14.4
Audiologists	29-1181	Line item	14.8	17.8	3.0	20.4	2.5	1.9	4.4	0.4	0.3	0.7	1.0
Health diagnosing and treating practitioners, all other	29-1199	Line item	56.4	62.9	6.4	11.4	4.0	1.0	5	2.4	0.6	3.0	3.6
Health technologists and technicians	29-2000	Summary	3,093.5	3,513.1	419.6	13.6	3.1	3.5	6.5	101.4	114.6	216.0	257.9
Clinical laboratory technologists and technicians	29-2010	Summary	335.7	378.3	42.7	12.7	3.0	3.0	6.1	10.8	10.8	21.6	25.9
Medical and clinical laboratory technologists	29-2011	Line item	171.4	191.2	19.7	11.5	3.0	3.0	6.1	5.5	5.5	11.0	12.9
Medical and clinical laboratory technicians	29-2012	Line item	164.2	187.2	22.9	14.0	3.0	3.0	6.1	5.3	5.3	10.6	12.9
Dental hygienists	29-2021	Line item	207.9	248.8	40.9	19.6	3.6	2.2	5.9	8.2	5.1	13.4	17.5
Diagnostic related technologists and technicians	29-2030	Summary	384.1	437.3	53.1	13.8	2.6	2.5	5.1	10.6	10.2	20.9	26.2
Cardiovascular technologists and technicians	29-2031	Line item	55.0	60.5	5.4	9.9	2.6	2.5	5.1	1.5	1.4	2.9	3.5
Diagnostic medical sonographers	29-2032	Line item	67.3	82.9	15.6	23.2	2.6	2.5	5.1	1.9	1.9	3.8	5.4
Nuclear medicine technologists	29-2033	Line item	20.1	22.0	2.0	9.8	2.6	2.5	5.1	0.5	0.5	1.1	1.3

Radiologic technologists	29-2034	Line item	205.2	230.4	25.2	12.3	2.6	2.5	5.1	5.6	5.4	11.1	13.6
Magnetic resonance imaging technologists	29-2035	Line item	36.6	41.5	5.0	13.6	2.6	2.5	5.1	1.0	1.0	2.0	2.5
Emergency medical technicians and paramedics	29-2041	Line item	248.0	285.4	37.4	15.1	1.7	4.1	5.9	4.6	11.0	15.6	19.3
Health practitioner support technologists and technicians	29-2050	Summary	767.0	857.1	90.1	11.7	3.2	4.4	7.7	26.4	36.0	62.4	71.4
Dietetic technicians	29-2051	Line item	33.4	36.5	3.1	9.3	3.2	4.4	7.7	1.1	1.5	2.7	3.0
Pharmacy technicians	29-2052	Line item	402.5	450.1	47.6	11.8	3.2	4.4	7.7	13.8	18.9	32.7	37.5
Psychiatric technicians	29-2053	Line item	66.1	70.0	3.9	5.9	3.2	4.4	7.7	2.2	3.0	5.2	5.6
Respiratory therapy technicians	29-2054	Line item	10.8	4.7	-6.1	-56.3	3.2	4.4	7.7	0.3	0.3	0.6	0.0
Surgical technologists	29-2055	Line item	107.7	120.3	12.6	11.7	3.2	4.4	7.7	3.7	5.1	8.8	10.0
Veterinary technologists and technicians	29-2056	Line item	102.0	122.4	20.4	19.9	3.2	4.4	7.7	3.6	5.0	8.6	10.7
Ophthalmic medical technicians	29-2057	Line item	44.5	53.2	8.7	19.4	3.2	4.4	7.7	1.6	2.2	3.8	4.6
Licensed practical and licensed vocational nurses	29-2061	Line item	724.5	813.1	88.6	12.2	3.5	3.5	7	27.1	26.7	53.8	62.7
Medical records and health information technicians	29-2071	Line item	206.3	234.1	27.8	13.5	2.9	3.0	5.9	6.5	6.6	13.0	15.8
Opticians, dispensing	29-2081	Line item	77.6	88.9	11.3	14.5	3.3	3.7	7	2.8	3.1	5.8	7.0
Miscellaneous health technologists and technicians	29-2090	Summary	142.4	170.2	27.8	19.5	2.8	3.3	6.1	4.3	5.2	9.5	12.3
Orthotists and prosthetists	29-2091	Line item	7.8	9.5	1.7	21.9	2.8	3.3	6.1	0.2	0.3	0.5	0.7
Hearing aid specialists	29-2092	Line item	6.8	8.2	1.3	19.2	2.8	3.3	6.1	0.2	0.2	0.5	0.6
Health technologists and technicians, all other	29-2099	Line item	127.8	152.5	24.8	19.4	2.8	3.3	6.1	3.9	4.6	8.5	11.0
Other healthcare practitioners and technical occupations	29-9000	Summary	172.6	192.6	20.0	11.6	2.2	2.7	5	4.1	5.0	9.1	11.0
Occupational health and safety specialists and technicians	29-9010	Summary	101.8	109.9	8.1	7.9	2.2	2.7	5	2.3	2.9	5.2	6.1
Occupational health and safety specialists	29-9011	Line item	83.7	90.1	6.4	7.6	2.2	2.7	5	1.9	2.4	4.3	4.9
Occupational health and safety technicians	29-9012	Line item	18.1	19.8	1.7	9.5	2.2	2.7	5	0.4	0.5	0.9	1.1
Miscellaneous health practitioners and technical workers	29-9090	Summary	70.8	82.7	11.9	16.8	2.2	2.7	5	1.7	2.1	3.8	5.0
Athletic trainers	29-9091	Line item	27.8	34.0	6.2	22.2	2.2	2.7	5	0.7	0.8	1.5	2.2
Genetic counselors	29-9092	Line item	3.1	3.9	0.9	28.3	2.2	2.7	5	0.1	0.1	0.2	0.3
Healthcare practitioners and technical workers, all other	29-9099	Line item	40.0	44.8	4.8	12.1	2.2	2.7	5	0.9	1.2	2.1	2.6
Healthcare support occupations	31-0000	Summary	4,315.6	5,315.5	999.9	23.2	5.7	5.5	11.1	272.4	262.9	535.4	635.4
Nursing, psychiatric, and home health aides	31-1000	Summary	2,549.4	3,147.2	597.8	23.4	6.1	5.1	11.1	173.0	144.0	317.0	376.8
Home health aides	31-1011	Line item	911.5	1,337.0	425.6	46.7	6.1	5.1	11.1	68.3	56.8	125.1	167.7
Psychiatric aides	31-1013	Line item	73.6	77.4	3.9	5.2	6.1	5.1	11.1	4.6	3.8	8.4	8.8
Nursing assistants	31-1014	Line item	1,510.3	1,674.4	164.0	10.9	6.1	5.1	11.1	96.7	80.5	177.2	193.6
Orderlies	31-1015	Line item	54.0	58.4	4.4	8.1	6.1	5.1	11.1	3.4	2.8	6.3	6.7
aides	31-2000	Summary	187.1	242.6	55.5	29.7	4.5	7.3	11.9	9.8	15.7	25.5	31.0
Occupational therapy assistants and aides	31-2010	Summary	46.8	60.0	13.2	28.3	5.0	7.2	12.2	2.7	3.8	6.5	7.8
Occupational therapy assistants	31-2011	Line item	39.3	50.7	11.4	28.9	5.0	7.2	12.2	2.3	3.2	5.5	6.6
Occupational therapy aides	31-2012	Line item	7.5	9.3	1.8	24.7	5.0	7.2	12.2	0.4	0.6	1.0	1.2
Physical therapist assistants and aides	31-2020	Summary	140.3	182.6	42.3	30.1	4.4	7.4	11.8	7.1	11.9	19.0	23.2
Physical therapist assistants	31-2021	Line item	88.3	115.5	27.2	30.8	4.4	7.4	11.8	4.5	7.5	12.0	14.7
Physical therapist aides	31-2022	Line item	52.0	67.1	15.1	29.1	4.4	7.4	11.8	2.6	4.4	7.0	8.5
Other healthcare support occupations	31-9000	Summary	1,579.1	1,925.7	346.6	21.9	5.1	5.9	11	89.6	103.3	192.9	227.6
Massage therapists	31-9011	Line item	160.3	198.1	37.7	23.5	6.5	3.6	10.1	11.7	6.4	18.1	21.9
Miscellaneous healthcare support occupations	31-9090	Summary	1,418.8	1,727.6	308.8	21.8	5.0	6.2	11.1	77.9	96.8	174.8	205.6
Dental assistants	31-9091	Line item	332.0	396.6	64.6	19.5	5.1	5.7	10.8	18.6	20.9	39.4	45.9
Medical assistants	31-9092	Line item	634.4	819.0	184.6	29.1	4.4	6.1	10.5	31.9	44.6	76.5	95.0
Medical equipment preparers	31-9093	Line item	54.2	60.1	5.9	10.9	6.3	6.0	12.2	3.6	3.4	7.0	7.6
Medical transcriptionists	31-9094	Line item	57.4	55.4	-2.0	-3.5	6.6	5.0	11.7	3.7	2.8	6.6	6.4
Pharmacy aides	31-9095	Line item	36.9	35.2	-1.8	-4.8	6.7	6.8	13.4	2.4	2.4	4.8	4.7
Veterinary assistants and laboratory animal caretakers	31-9096	Line item	83.8	100.0	16.3	19.4	5.8	9.4	15.1	5.3	8.6	13.9	15.5
Phlebotomists	31-9097	Line item	122.7	152.6	30.0	24.4	4.3	5.8	10.1	5.9	7.9	13.9	16.9
Healthcare support workers, all other	31-9099	Line item	97.3	108.6	11.3	11.6	6.3	6.0	12.2	6.4	6.1	12.6	13.7
Protective service occupations	33-0000	Summary	3,505.6	3,663.8	158.2	4.5	5.1	5.6	10.6	181.8	199.6	381.4	397.2
Supervisors of protective service workers	33-1000	Summary	284.2	295.2	11.1	3.9	3.4	3.6	7.1	9.9	10.6	20.5	21.6
First-line supervisors of law enforcement workers	33-1010	Summary	149.9	153.3	3.4	2.3	2.9	3.2	6.1	4.4	4.8	9.2	9.5
First-line supervisors of correctional officers	33-1011	Line item	45.2	41.7	-3.5	-7.8	3.1	3.4	6.5	1.3	1.5	2.8	2.5
First-line supervisors of police and detectives	33-1012	Line item	104.7	111.6	6.9	6.6	2.8	3.1	5.9	3.0	3.3	6.4	7.1
First-line supervisors of fire fighting and prevention workers	33-1021	Line item	59.1	63.3	4.2	7.2	3.4	3.1	6.5	2.1	1.9	4.0	4.4
First-line supervisors of protective service workers, all other	33-1099	Line item	75.2	78.6	3.4	4.6	4.6	5.0	9.6	3.5	3.8	7.4	7.7
Fire fighting and prevention workers	33-2000	Summary	341.4	366.4	25.0	7.3	2.3	4.3	6.6	8.3	15.1	23.4	25.9
Firefighters	33-2011	Line item	327.3	351.0	23.6	7.2	2.2	4.2	6.5	7.6	14.4	22.0	24.3
Fire inspectors	33-2020	Summary	14.1	15.4	1.4	9.7	4.8	5.2	10	0.7	0.8	1.5	1.6
Fire inspectors and investigators	33-2021	Line item	12.3	13.2	0.9	7.3	4.8	5.2	10	0.6	0.7	1.3	1.4
Forest fire inspectors and prevention specialists	33-2022	Line item	1.7	2.2	0.5	26.6	4.8	5.2	10	0.1	0.1	0.2	0.2
Law enforcement workers	33-3000	Summary	1,285.0	1,300.1	15.2	1.2	2.9	4.1	6.9	37.0	52.5	89.5	91.0
Bailiffs, correctional officers, and jailers	33-3010	Summary	468.6	433.7	-34.9	-7.4	3.5	4.5	8	15.9	20.3	36.2	32.7

Bailiffs	33-3011	Line item	18.6	18.2	-0.4	-2.1	3.5	4.5	8	0.6	0.8	1.5	1.4
Correctional officers and jailers	33-3012	Line item	450.0	415.5	-34.5	-7.7	3.5	4.5	8	15.3	19.4	34.7	31.3
Detectives and criminal investigators	33-3021	Line item	110.9	115.9	5.0	4.5	2.7	3.5	6.2	3.0	4.0	7.0	7.5
Fish and game wardens	33-3031	Line item	7.0	7.3	0.3	4.3	5.4	3.5	8.9	0.4	0.2	0.6	0.7
Parking enforcement workers	33-3041	Line item	9.4	6.1	-3.3	-35.3	5.4	3.5	8.9	0.4	0.3	0.7	0.4
Police officers	33-3050	Summary	689.1	737.2	48.1	7.0	2.4	3.9	6.3	17.2	27.8	45.0	49.8
Police and sheriff's patrol officers	33-3051	Line item	684.2	731.9	47.8	7.0	2.4	3.9	6.3	17.1	27.6	44.7	49.5
Transit and railroad police	33-3052	Line item	4.9	5.3	0.3	6.3	2.4	3.9	6.3	0.1	0.2	0.3	0.4
Other protective service workers	33-9000	Summary	1,595.0	1,702.0	107.0	6.7	7.7	7.4	15	126.5	121.4	247.9	258.6
Animal control workers	33-9011	Line item	13.4	14.6	1.1	8.4	4.6	5.9	10.5	0.6	0.8	1.5	1.6
Private detectives and investigators	33-9021	Line item	41.4	45.7	4.3	10.5	5.0	4.3	9.4	2.2	1.9	4.1	4.5
Security guards and gaming surveillance officers	33-9030	Summary	1,133.9	1,205.0	71.0	6.3	5.9	7.1	13	69.3	82.5	151.8	159.0
Gaming surveillance officers and gaming investigators	33-9031	Line item	10.7	11.1	0.4	3.5	5.9	7.1	13	0.6	0.8	1.4	1.4
Security guards	33-9032	Line item	1,123.3	1,193.9	70.7	6.3	5.9	7.1	13	68.7	81.7	150.4	157.5
Miscellaneous protective service workers	33-9090	Summary	406.2	436.7	30.5	7.5	12.9	8.6	21.5	54.3	36.2	90.5	93.6
Crossing guards	33-9091	Line item	74.3	80.6	6.3	8.5	14.0	3.9	17.9	10.8	3.0	13.9	14.5
service workers	33-9092	Line item	152.1	163.7	11.7	7.7	13.9	10.6	24.4	21.9	16.7	38.5	39.7
Transportation security screeners	33-9093	Line item	46.1	47.3	1.2	2.6	5.0	3.8	8.8	2.3	1.8	4.1	4.2
Protective service workers, all other	33-9099	Line item	133.8	145.1	11.3	8.4	13.9	10.6	24.4	19.3	14.7	34.0	35.2
Food preparation and serving related occupations	35-0000	Summary	13,206.1	14,438.3	1,232.2	9.3	7.5	9.4	17	1,042.8	1,303.9	2,346.7	2,469.9
Supervisors of food preparation and serving workers	35-1000	Summary	1,083.4	1,185.0	101.5	9.4	4.3	9.5	13.8	48.9	107.6	156.4	166.6
Chefs and head cooks	35-1011	Line item	146.5	160.5	14.1	9.6	3.2	9.1	12.3	4.9	14.0	18.9	20.3
workers	35-1012	Line item	936.9	1,024.4	87.5	9.3	4.5	9.5	14	43.9	93.6	137.5	146.2
Cooks and food preparation workers	35-2000	Summary	3,274.1	3,490.4	216.3	6.6	6.4	8.2	14.6	217.5	276.7	494.1	515.8
Cooks	35-2010	Summary	2,403.0	2,550.6	147.6	6.1	5.9	8.0	13.9	145.1	198.2	343.3	358.0
Cooks, fast food	35-2011	Line item	517.6	490.5	-27.1	-5.2	5.9	8.0	13.9	29.5	40.3	69.9	67.2
Cooks, institution and cafeteria	35-2012	Line item	424.8	457.4	32.6	7.7	5.9	8.0	13.9	25.8	35.3	61.1	64.4
Cooks, private household	35-2013	Line item	25.0	26.4	1.4	5.7	5.9	8.0	13.9	1.5	2.1	3.6	3.7
Cooks, restaurant	35-2014	Line item	1,231.9	1,377.2	145.3	11.8	5.9	8.0	13.9	76.4	104.4	180.8	195.3
Cooks, short order	35-2015	Line item	185.9	179.7	-6.2	-3.3	5.9	8.0	13.9	10.7	14.6	25.3	24.7
Cooks, all other	35-2019	Line item	17.8	19.4	1.6	9.0	5.9	8.0	13.9	1.1	1.5	2.6	2.7
Food preparation workers	35-2021	Line item	871.1	939.8	68.7	7.9	8.0	8.7	16.7	72.4	78.5	150.9	157.7
Food and beverage serving workers	35-3000	Summary	7,432.9	8,260.6	827.7	11.1	8.2	10.1	18.3	643.4	791.1	1,434.5	1,517.3
Bartenders	35-3011	Line item	611.2	626.3	15.1	2.5	4.8	11.5	16.3	29.8	71.0	100.8	102.3
Fast food and counter workers	35-3020	Summary	3,957.5	4,560.6	603.1	15.2	9.2	9.3	18.5	393.5	395.4	788.8	849.2
including fast food	35-3021	Line item	3,452.2	4,032.1	579.9	16.8	8.9	9.3	18.1	331.4	346.6	678.0	736.0
coffee shop	35-3022	Line item	505.2	528.4	23.2	4.6	12.0	9.4	21.5	62.1	48.8	110.9	113.2
Waiters and waitresses	35-3031	Line item	2,600.5	2,783.0	182.5	7.0	7.4	11.3	18.7	199.2	305.3	504.5	522.7
Food servers, nonrestaurant	35-3041	Line item	263.8	290.7	26.9	10.2	7.5	7.0	14.6	20.9	19.5	40.4	43.1
Other food preparation and serving related workers	35-9000	Summary	1,415.7	1,502.3	86.6	6.1	9.1	8.8	17.9	133.1	128.6	261.7	270.3
Dining room and cafeteria attendants and bartender helpers	35-9011	Line item	431.2	461.7	30.5	7.1	8.9	7.9	16.8	39.7	35.4	75.1	78.2
Dishwashers	35-9021	Line item	514.3	536.6	22.2	4.3	7.4	8.0	15.4	38.9	41.9	80.7	83.0
Hosts and hostesses, restaurant, lounge, and coffee shop	35-9031	Line item	409.2	437.5	28.3	6.9	11.5	10.9	22.5	48.8	46.3	95.1	97.9
Food preparation and serving related workers, all other	35-9099	Line item	60.9	66.5	5.6	9.3	8.9	7.9	16.8	5.7	5.0	10.7	11.3
Building and grounds cleaning and maintenance occupations	37-0000	Summary	5,654.1	6,147.3	493.2	8.7	6.1	6.3	12.4	360.1	374.1	734.2	783.5
maintenance workers	37-1000	Summary	421.8	459.8	38.0	9.0	4.3	6.0	10.3	18.9	26.6	45.5	49.3
First-line supervisors of housekeeping and janitorial workers	37-1011	Line item	243.5	264.4	20.9	8.6	5.1	6.0	11.1	12.8	15.3	28.2	30.3
groundskeeping workers	37-1012	Line item	178.3	195.4	17.1	9.6	3.2	6.0	9.3	6.0	11.3	17.3	19.0
Building cleaning and pest control workers	37-2000	Summary	3,923.0	4,244.8	321.8	8.2	6.8	6.1	12.9	277.0	249.2	526.2	558.3
Building cleaning workers	37-2010	Summary	3,844.0	4,159.5	315.5	8.2	6.8	6.0	12.9	273.8	241.4	515.2	546.7
cleaners	37-2011	Line item	2,384.6	2,617.7	233.0	9.8	6.5	6.3	12.8	162.8	157.4	320.2	343.5
Maids and housekeeping cleaners	37-2012	Line item	1,443.2	1,523.6	80.4	5.6	7.4	5.6	13	109.8	82.9	192.8	200.8
Building cleaning workers, all other	37-2019	Line item	16.2	18.3	2.0	12.6	6.5	6.3	12.8	1.1	1.1	2.2	2.4
Pest control workers	37-2021	Line item	78.9	85.2	6.3	8.0	3.9	9.5	13.4	3.2	7.8	11.0	11.6
Grounds maintenance workers	37-3000	Summary	1,309.3	1,442.7	133.4	10.2	4.7	7.1	11.8	64.3	98.3	162.6	175.9
Landscaping and groundskeeping workers	37-3011	Line item	1,197.9	1,321.2	123.3	10.3	4.7	7.1	11.8	58.8	90.0	148.8	161.1
Pesticide handlers, sprayers, and applicators, vegetation	37-3012	Line item	38.0	40.7	2.7	7.0	4.7	7.1	11.8	1.8	2.8	4.6	4.9
Tree trimmers and pruners	37-3013	Line item	54.5	60.3	5.8	10.7	4.7	7.1	11.8	2.7	4.1	6.8	7.4
Grounds maintenance workers, all other	37-3019	Line item	18.9	20.5	1.6	8.5	4.7	7.1	11.8	0.9	1.4	2.3	2.5
Personal care and service occupations	39-0000	Summary	6,419.7	7,589.0	1,169.2	18.2	7.5	7.0	14.5	527.1	487.3	1,014.4	1,131.3
Supervisors of personal care and service workers	39-1000	Summary	326.7	364.4	37.7	11.5	4.8	5.4	10.2	16.6	18.7	35.3	39.0
First-line supervisors of gaming workers	39-1010	Summary	50.6	52.4	1.8	3.7	4.8	10.7	15.4	2.5	5.5	8.0	8.1
Gaming supervisors	39-1011	Line item	38.5	39.9	1.3	3.5	4.8	10.7	15.4	1.9	4.2	6.1	6.2
Slot supervisors	39-1012	Line item	12.1	12.6	0.5	4.3	4.8	10.7	15.4	0.6	1.3	1.9	2.0

First-line supervisors of personal service workers	39-1021	Line item	276.1	312.0	35.9	13.0	4.8	4.5	9.3	14.1	13.2	27.3	30.9
Animal care and service workers	39-2000	Summary	296.4	355.1	58.7	19.8	6.5	7.7	14.2	21.1	25.2	46.3	52.2
Animal trainers	39-2011	Line item	54.9	60.7	5.9	10.7	4.8	6.3	11.1	2.8	3.6	6.4	7.0
Nonfarm animal caretakers	39-2021	Line item	241.5	294.4	52.8	21.9	6.8	8.1	14.9	18.3	21.6	39.9	45.2
Entertainment attendants and related workers	39-3000	Summary	584.3	625.9	41.6	7.1	10.1	11.1	21.2	61.0	67.2	128.1	132.3
Gaming services workers	39-3010	Summary	121.0	122.6	1.6	1.4	5.9	8.9	14.7	7.1	10.8	18.0	18.1
Gaming dealers	39-3011	Line item	96.9	98.0	1.1	1.1	5.9	8.9	14.7	5.7	8.7	14.4	14.5
Gaming and sports book writers and runners	39-3012	Line item	11.7	12.1	0.4	3.8	5.9	8.9	14.7	0.7	1.1	1.8	1.8
Gaming service workers, all other	39-3019	Line item	12.5	12.6	0.1	0.7	5.9	8.9	14.7	0.7	1.1	1.8	1.9
Motion picture projectionists	39-3021	Line item	5.8	5.2	-0.6	-9.9	4.5	8.3	12.8	0.2	0.5	0.7	0.6
Ushers, lobby attendants, and ticket takers	39-3031	Line item	117.7	126.4	8.8	7.5	13.1	11.2	24.3	16.0	13.6	29.6	30.5
Miscellaneous entertainment attendants and related workers	39-3090	Summary	339.8	371.6	31.7	9.3	10.6	11.9	22.4	37.6	42.3	79.8	83.0
Amusement and recreation attendants	39-3091	Line item	300.0	327.8	27.8	9.3	10.6	11.9	22.4	33.1	37.3	70.5	73.2
Costume attendants	39-3092	Line item	6.6	7.3	0.6	9.7	10.6	11.9	22.4	0.7	0.8	1.6	1.6
Locker room, coatroom, and dressing room attendants	39-3093	Line item	18.6	20.2	1.6	8.7	10.6	11.9	22.4	2.1	2.3	4.4	4.5
Entertainment attendants and related workers, all other	39-3099	Line item	14.6	16.2	1.7	11.4	10.6	11.9	22.4	1.6	1.8	3.5	3.6
Funeral service workers	39-4000	Summary	68.5	70.8	2.3	3.3	7.2	6.6	13.8	5.0	4.6	9.6	9.9
Embalmers	39-4011	Line item	3.7	3.7	0.0	-0.8	8.9	6.2	15	0.3	0.2	0.6	0.6
Funeral attendants	39-4021	Line item	36.1	37.0	1.0	2.7	8.9	6.2	15	3.2	2.3	5.5	5.6
Morticians, undertakers, and funeral directors	39-4031	Line item	28.7	30.0	1.3	4.6	5.0	7.3	12.2	1.5	2.1	3.6	3.7
Personal appearance workers	39-5000	Summary	887.3	983.8	96.5	10.9	6.4	5.0	11.4	59.7	46.6	106.3	115.9
Barbers, hairdressers, hairstylists and cosmetologists	39-5010	Summary	673.7	744.2	70.5	10.5	6.5	4.9	11.4	46.0	35.1	81.1	88.2
Barbers	39-5011	Line item	56.4	61.6	5.2	9.2	4.5	4.5	9	2.7	2.6	5.3	5.8
Hairdressers, hairstylists, and cosmetologists	39-5012	Line item	617.3	682.7	65.3	10.6	6.7	5.0	11.7	43.4	32.4	75.8	82.4
Miscellaneous personal appearance workers	39-5090	Summary	213.6	239.6	26.0	12.2	6.0	5.1	11.1	13.6	11.5	25.2	27.7
Makeup artists, theatrical and performance	39-5091	Line item	4.8	5.4	0.5	11.2	6.0	5.1	11.1	0.3	0.3	0.6	0.6
Manicurists and pedicurists	39-5092	Line item	126.3	141.4	15.2	12.0	6.0	5.1	11.1	8.0	6.8	14.9	16.4
Shampoos	39-5093	Line item	21.2	23.8	2.6	12.2	6.0	5.1	11.1	1.4	1.1	2.5	2.8
Skincare specialists	39-5094	Line item	61.3	69.0	7.7	12.6	6.0	5.1	11.1	3.9	3.3	7.2	8.0
Baggage porters, bellhops, and concierges	39-6000	Summary	77.6	85.0	7.4	9.5	4.8	8.8	13.6	3.9	7.1	11.0	11.8
Baggage porters and bellhops	39-6011	Line item	45.1	48.8	3.7	8.2	4.8	8.8	13.6	2.2	4.1	6.4	6.7
Concierges	39-6012	Line item	32.5	36.2	3.7	11.3	4.8	8.8	13.6	1.6	3.0	4.7	5.0
Tour and travel guides	39-7000	Summary	49.4	54.6	5.2	10.5	8.8	8.4	17.1	4.6	4.4	8.9	9.4
Tour guides and escorts	39-7011	Line item	45.8	50.8	5.0	10.9	8.8	8.4	17.1	4.2	4.0	8.3	8.8
Travel guides	39-7012	Line item	3.6	3.8	0.2	5.5	8.8	8.4	17.1	0.3	0.3	0.6	0.7
Other personal care and service workers	39-9000	Summary	4,129.5	5,049.4	919.9	22.3	7.7	6.8	14.6	355.4	313.5	668.8	760.8
Childcare workers	39-9011	Line item	1,216.6	1,298.7	82.1	6.7	8.2	6.2	14.4	102.7	77.9	180.5	188.8
Personal care aides	39-9021	Line item	2,016.1	2,770.1	754.0	37.4	8.0	6.0	14	191.0	143.9	334.9	410.3
Recreation and fitness workers	39-9030	Summary	689.1	751.7	62.6	9.1	6.5	10.0	16.5	47.1	72.1	119.2	125.5
Fitness trainers and aerobics instructors	39-9031	Line item	299.2	328.4	29.3	9.8	6.5	10.0	16.5	20.5	31.4	51.9	54.8
Recreation workers	39-9032	Line item	390.0	423.3	33.3	8.5	6.5	10.0	16.5	26.6	40.7	67.3	70.6
Residential advisors	39-9041	Line item	118.8	134.1	15.3	12.9	6.6	9.9	16.5	8.4	12.5	20.9	22.4
Personal care and service workers, all other	39-9099	Line item	88.9	94.9	6.0	6.8	6.7	7.8	14.5	6.1	7.1	13.3	13.9
Sales and related occupations	41-0000	Summary	15,747.8	16,255.2	507.4	3.2	5.8	7.7	13.5	931.6	1,226.4	2,158.0	2,208.7
Supervisors of sales workers	41-1000	Summary	1,937.6	2,040.9	103.3	5.3	3.6	6.5	10.1	71.9	129.0	200.9	211.3
First-line supervisors of retail sales workers	41-1011	Line item	1,532.4	1,609.7	77.3	5.0	3.7	6.7	10.4	58.0	105.7	163.7	171.4
First-line supervisors of non-retail sales workers	41-1012	Line item	405.2	431.2	26.0	6.4	3.3	5.6	8.9	13.9	23.3	37.2	39.8
Retail sales workers	41-2000	Summary	8,891.5	8,988.6	97.1	1.1	7.4	8.4	15.8	664.8	750.3	1,415.1	1,424.8
Cashiers	41-2010	Summary	3,578.9	3,550.1	-28.9	-0.8	9.4	9.2	18.6	334.7	326.6	661.3	658.4
Cashiers	41-2011	Line item	3,555.5	3,526.0	-29.5	-0.8	9.4	9.2	18.6	332.4	324.4	656.9	653.9
Gaming change persons and booth cashiers	41-2012	Line item	23.4	24.0	0.6	2.7	9.4	9.2	18.6	2.2	2.2	4.4	4.5
Counter and rental clerks and parts salespersons	41-2020	Summary	710.1	748.0	37.9	5.3	4.9	7.5	12.5	36.0	55.0	90.9	94.7
Counter and rental clerks	41-2021	Line item	458.2	483.4	25.1	5.5	5.3	7.3	12.6	24.7	34.6	59.3	61.8
Parts salespersons	41-2022	Line item	251.9	264.6	12.8	5.1	4.3	7.9	12.3	11.2	20.4	31.7	32.9
Retail salespersons	41-2031	Line item	4,602.5	4,690.6	88.1	1.9	6.3	7.9	14.3	294.2	368.7	662.9	671.7
Sales representatives, services	41-3000	Summary	2,091.8	2,245.7	154.0	7.4	3.4	7.4	10.8	73.8	160.2	234.0	249.4
Advertising sales agents	41-3011	Line item	149.9	145.6	-4.4	-2.9	3.7	8.6	12.4	5.5	12.8	18.3	17.8
Insurance sales agents	41-3021	Line item	501.4	550.0	48.6	9.7	4.1	5.4	9.4	21.4	28.3	49.6	54.5
Securities, commodities, and financial services sales agents	41-3031	Line item	375.7	398.7	23.0	6.1	2.6	6.6	9.2	10.2	25.5	35.7	38.0
Travel agents	41-3041	Line item	81.7	74.3	-7.5	-9.1	5.3	6.1	11.4	4.2	4.7	8.9	8.1
Sales representatives, services, all other	41-3099	Line item	983.0	1,077.2	94.2	9.6	3.2	8.6	11.8	32.6	88.9	121.5	130.9
Sales representatives, wholesale and manufacturing	41-4000	Summary	1,813.5	1,913.3	99.8	5.5	3.3	6.7	10	61.5	124.8	186.3	196.3
Sales representatives, wholesale and manufacturing, technical and scientific products	41-4011	Line item	343.6	362.4	18.7	5.5	3.3	6.7	10	11.6	23.6	35.3	37.2



Sales representatives, wholesale and manufacturing, except technical and scientific products	41-4012	Line item	1,469.9	1,551.0	81.1	5.5	3.3	6.7	10	49.8	101.2	151.0	159.1
Other sales and related workers	41-9000	Summary	1,013.4	1,066.6	53.2	5.2	5.7	6.0	11.7	59.5	62.1	121.6	126.9
Models, demonstrators, and product promoters	41-9010	Summary	99.5	106.2	6.6	6.7	10.0	6.8	16.9	10.3	7.0	17.3	18.0
Demonstrators and product promoters	41-9011	Line item	94.7	101.4	6.7	7.0	10.0	6.8	16.9	9.8	6.7	16.5	17.2
Models	41-9012	Line item	4.8	4.8	0.0	-0.9	10.0	6.8	16.9	0.5	0.3	0.8	0.8
Real estate brokers and sales agents	41-9020	Summary	444.1	471.0	26.9	6.0	5.1	3.9	9	23.4	17.8	41.3	43.9
Real estate brokers	41-9021	Line item	95.3	100.5	5.1	5.4	5.1	3.9	9	5.0	3.8	8.8	9.3
Real estate sales agents	41-9022	Line item	348.8	370.5	21.7	6.2	5.1	3.9	9	18.4	14.0	32.4	34.6
Sales engineers	41-9031	Line item	74.9	80.1	5.2	6.9	2.4	7.7	10	1.8	6.0	7.8	8.3
Telemarketers	41-9041	Line item	216.6	216.5	-0.1	0.0	6.0	9.4	15.4	12.9	20.4	33.3	33.3
Miscellaneous sales and related workers	41-9090	Summary	178.3	192.8	14.5	8.2	6.0	5.8	11.8	11.0	10.8	21.9	23.3
and related workers	41-9091	Line item	82.4	87.5	5.2	6.3	6.7	3.7	10.5	5.7	3.2	8.9	9.4
Sales and related workers, all other	41-9099	Line item	95.9	105.3	9.4	9.8	5.3	7.6	12.9	5.3	7.7	13.0	13.9
Office and administrative support occupations	43-0000	Summary	23,081.2	23,230.6	149.4	0.6	5.1	6.0	11.1	1,189.0	1,392.5	2,581.4	2,596.4
Supervisors of office and administrative support workers	43-1000	Summary	1,506.3	1,557.5	51.2	3.4	3.9	5.8	9.7	59.4	88.4	147.9	153.0
workers	43-1011	Line item	1,506.3	1,557.5	51.2	3.4	3.9	5.8	9.7	59.4	88.4	147.9	153.0
Communications equipment operators	43-2000	Summary	104.7	84.4	-20.3	-19.4	6.2	6.7	12.9	5.9	6.4	12.2	10.2
Switchboard operators, including answering service	43-2011	Line item	93.2	74.7	-18.5	-19.9	6.3	6.7	13	5.3	5.6	10.9	9.0
Telephone operators	43-2021	Line item	9.1	7.0	-2.0	-22.6	6.1	7.5	13.6	0.5	0.6	1.1	0.9
Communications equipment operators, all other	43-2099	Line item	2.4	2.6	0.2	10.4	3.5	6.8	10.3	0.1	0.2	0.3	0.3
Financial clerks	43-3000	Summary	3,336.6	3,332.3	-4.3	-0.1	5.3	5.4	10.8	178.1	181.2	359.3	358.8
Bill and account collectors	43-3011	Line item	305.7	296.6	-9.1	-3.0	3.8	6.6	10.3	11.3	19.8	31.1	30.2
Billing and posting clerks	43-3021	Line item	501.0	571.9	70.9	14.2	4.3	5.5	9.8	22.9	29.5	52.5	59.6
Bookkeeping, accounting, and auditing clerks	43-3031	Line item	1,730.5	1,706.9	-23.5	-1.4	6.2	4.8	11	106.4	82.6	189.0	186.6
Gaming cage workers	43-3041	Line item	19.0	19.3	0.3	1.4	6.1	9.3	15.4	1.2	1.8	2.9	3.0
Payroll and timekeeping clerks	43-3051	Line item	166.3	164.7	-1.6	-0.9	4.2	5.6	9.8	7.0	9.3	16.3	16.1
Procurement clerks	43-3061	Line item	74.9	71.8	-3.2	-4.2	4.2	6.5	10.7	3.1	4.8	7.9	7.5
Tellers	43-3071	Line item	502.7	460.9	-41.7	-8.3	5.1	6.4	11.5	24.7	31.0	55.6	51.5
Financial clerks, all other	43-3099	Line item	36.6	40.2	3.6	9.9	3.8	6.6	10.4	1.5	2.5	4.0	4.3
Information and record clerks	43-4000	Summary	5,830.0	6,138.1	308.1	5.3	5.2	7.0	12.2	311.4	417.8	729.2	760.0
Brokerage clerks	43-4011	Line item	60.4	63.4	3.0	5.0	2.5	7.6	10.1	1.6	4.7	6.3	6.6
Correspondence clerks	43-4021	Line item	7.2	7.4	0.2	2.1	4.6	6.5	11.2	0.3	0.5	0.8	0.8
Court, municipal, and license clerks	43-4031	Line item	135.5	144.4	8.9	6.6	4.5	3.9	8.4	6.3	5.5	11.8	12.6
Credit authorizers, checkers, and clerks	43-4041	Line item	38.5	37.4	-1.1	-2.8	3.5	6.5	9.9	1.3	2.5	3.8	3.7
Customer service representatives	43-4051	Line item	2,784.5	2,920.5	136.0	4.9	5.1	7.5	12.6	145.8	214.0	359.8	373.4
Eligibility interviewers, government programs	43-4061	Line item	143.1	151.6	8.5	6.0	4.0	4.7	8.7	5.9	6.9	12.8	13.6
File clerks	43-4071	Line item	135.0	121.1	-13.9	-10.3	6.1	6.0	12.2	7.8	7.7	15.6	14.2
Hotel, motel, and resort desk clerks	43-4081	Line item	252.6	263.9	11.3	4.5	5.5	9.9	15.4	14.3	25.5	39.8	40.9
Interviewers, except eligibility and loan	43-4111	Line item	194.7	205.7	11.0	5.7	5.3	6.3	11.6	10.7	12.5	23.2	24.3
Library assistants, clerical	43-4121	Line item	104.3	114.1	9.8	9.4	7.9	6.0	14	8.7	6.6	15.3	16.3
Loan interviewers and clerks	43-4131	Line item	229.8	258.2	28.4	12.4	3.6	5.8	9.4	8.8	14.1	22.9	25.7
New accounts clerks	43-4141	Line item	42.0	39.4	-2.6	-6.2	4.3	6.2	10.4	1.7	2.5	4.3	4.0
Order clerks	43-4151	Line item	179.0	175.4	-3.6	-2.0	4.6	6.5	11.2	8.2	11.6	19.8	19.5
timekeeping	43-4161	Line item	141.5	138.9	-2.6	-1.8	4.2	6.7	10.9	5.9	9.4	15.3	15.1
Receptionists and information clerks	43-4171	Line item	1,053.7	1,149.4	95.7	9.1	6.2	6.6	12.9	68.5	73.1	141.6	151.2
clerks	43-4181	Line item	150.1	155.7	5.6	3.7	4.3	6.0	10.3	6.6	9.1	15.7	16.3
Information and record clerks, all other	43-4199	Line item	178.1	191.7	13.6	7.6	4.9	6.3	11.1	9.0	11.6	20.6	21.9
workers	43-5000	Summary	4,117.5	4,196.8	79.3	1.9	4.6	6.1	10.7	192.6	253.6	446.2	454.1
Cargo and freight agents	43-5011	Line item	89.8	99.1	9.3	10.4	3.1	5.0	8.1	2.9	4.7	7.6	8.6
Couriers and messengers	43-5021	Line item	95.0	103.0	8.0	8.4	4.6	4.4	9	4.6	4.3	8.9	9.7
Dispatchers	43-5030	Summary	300.3	308.4	8.1	2.7	3.5	5.4	8.9	10.7	16.4	27.1	28.0
Police, fire, and ambulance dispatchers	43-5031	Line item	98.6	106.7	8.2	8.3	3.5	5.4	8.9	3.6	5.5	9.2	10.0
Dispatchers, except police, fire, and ambulance	43-5032	Line item	201.7	201.7	0.0	0.0	3.5	5.4	8.9	7.1	10.9	18.0	18.0
Meter readers, utilities	43-5041	Line item	34.8	33.2	-1.5	-4.4	3.2	4.0	7.3	1.1	1.4	2.5	2.3
Postal service workers	43-5050	Summary	502.4	437.1	-65.3	-13.0	4.1	2.8	6.9	19.4	13.2	32.6	26.1
Postal service clerks	43-5051	Line item	79.0	69.5	-9.5	-12.1	5.1	2.7	7.8	3.8	2.0	5.8	4.8
Postal service mail carriers	43-5052	Line item	316.7	278.5	-38.2	-12.1	3.9	2.8	6.7	11.5	8.4	19.9	16.1
machine operators	43-5053	Line item	106.7	89.1	-17.5	-16.5	4.2	2.9	7.1	4.2	2.8	6.9	5.2
Production, planning, and expediting clerks	43-5061	Line item	329.4	347.3	17.9	5.4	3.5	6.5	10	11.7	22.0	33.7	35.5
Shipping, receiving, and traffic clerks	43-5071	Line item	681.4	681.4	0.1	0.0	3.9	6.0	9.9	26.6	40.6	67.2	67.2
Stock clerks and order fillers	43-5081	Line item	2,008.6	2,109.9	101.3	5.0	5.5	7.1	12.6	112.4	146.7	259.2	269.3
recordkeeping	43-5111	Line item	75.9	77.3	1.4	1.9	4.0	5.7	9.7	3.0	4.4	7.4	7.6
Secretaries and administrative assistants	43-6000	Summary	3,990.4	3,798.5	-191.9	-4.8	5.4	5.2	10.6	209.8	204.1	413.9	394.7

assistants	43-6011	Line item	685.3	566.2	-119.1	-17.4	5.4	5.2	10.6	33.7	32.8	66.5	54.6
Legal secretaries	43-6012	Line item	194.7	157.5	-37.1	-19.1	5.4	5.2	10.6	9.5	9.2	18.7	15.0
Medical secretaries	43-6013	Line item	574.2	703.2	129.1	22.5	5.4	5.2	10.6	34.4	33.5	67.9	80.8
medical, and executive	43-6014	Line item	2,536.2	2,371.4	-164.8	-6.5	5.4	5.2	10.6	132.2	128.6	260.8	244.3
Other office and administrative support workers	43-9000	Summary	4,195.7	4,123.0	-72.7	-1.7	5.6	5.8	11.4	231.9	240.9	472.8	465.5
Computer operators	43-9011	Line item	51.5	39.7	-11.8	-22.9	4.0	6.1	10.1	1.8	2.8	4.6	3.4
Data entry and information processing workers	43-9020	Summary	278.7	210.6	-68.1	-24.4	5.5	6.0	11.5	13.3	14.7	28.1	21.3
Data entry keyers	43-9021	Line item	203.8	160.8	-43.1	-21.1	5.1	6.5	11.6	9.4	11.8	21.1	16.8
Word processors and typists	43-9022	Line item	74.9	49.9	-25.0	-33.4	6.4	4.8	11.2	4.0	3.0	7.0	4.5
Desktop publishers	43-9031	Line item	14.6	12.6	-2.0	-13.9	4.4	6.4	10.7	0.6	0.9	1.5	1.3
Insurance claims and policy processing clerks	43-9041	Line item	308.5	342.6	34.1	11.0	4.3	5.6	9.9	13.9	18.3	32.2	35.6
service	43-9051	Line item	95.5	88.3	-7.1	-7.5	5.4	5.6	11	5.0	5.2	10.1	9.4
Office clerks, general	43-9061	Line item	3,117.7	3,085.7	-32.1	-1.0	5.9	5.7	11.6	182.0	177.4	359.4	356.2
Office machine operators, except computer	43-9071	Line item	59.9	50.5	-9.4	-15.6	4.4	6.6	11	2.4	3.6	6.1	5.1
Proofreaders and copy markers	43-9081	Line item	14.2	14.5	0.3	2.2	8.1	6.9	15	1.2	1.0	2.2	2.2
Statistical assistants	43-9111	Line item	11.8	12.9	1.1	9.2	4.6	7.5	12.2	0.6	0.9	1.5	1.6
Office and administrative support workers, all other	43-9199	Line item	243.2	265.5	22.3	9.2	4.4	6.4	10.7	11.1	16.2	27.2	29.5
Farming, fishing, and forestry occupations	45-0000	Summary	1,060.1	1,060.6	0.5	0.0	3.7	11.0	14.6	38.7	116.2	154.9	155.0
Supervisors of farming, fishing, and forestry workers	45-1000	Summary	48.7	51.0	2.2	4.6	3.2	9.8	13.1	1.6	4.9	6.5	6.7
workers	45-1011	Line item	48.7	51.0	2.2	4.6	3.2	9.8	13.1	1.6	4.9	6.5	6.7
Agricultural workers	45-2000	Summary	914.8	915.0	0.3	0.0	3.7	11.3	14.9	33.7	103.0	136.7	136.7
Agricultural inspectors	45-2011	Line item	15.6	16.3	0.7	4.6	4.2	8.9	13.1	0.7	1.4	2.1	2.2
Animal breeders	45-2021	Line item	9.0	9.2	0.2	2.0	3.7	11.4	15.1	0.3	1.0	1.4	1.4
Graders and sorters, agricultural products	45-2041	Line item	42.9	42.5	-0.4	-0.9	4.0	9.4	13.4	1.7	4.0	5.7	5.7
Miscellaneous agricultural workers	45-2090	Summary	847.3	847.0	-0.2	0.0	3.7	11.4	15.1	31.0	96.5	127.5	127.5
Agricultural equipment operators	45-2091	Line item	63.9	67.5	3.6	5.6	3.7	11.4	15.1	2.4	7.5	9.9	10.2
greenhouse	45-2092	Line item	503.7	509.5	5.8	1.1	3.7	11.4	15.1	18.5	57.7	76.3	76.8
Farmworkers, farm, ranch, and aquacultural animals	45-2093	Line item	268.1	258.1	-10.1	-3.8	3.7	11.4	15.1	9.6	30.0	39.6	38.6
Agricultural workers, all other	45-2099	Line item	11.6	12.1	0.5	4.5	3.7	11.4	15.1	0.4	1.3	1.8	1.8
Fishing and hunting workers	45-3000	Line item	27.0	29.0	2.0	7.2	3.3	6.4	9.8	0.9	1.8	2.7	2.9
Forest, conservation, and logging workers	45-4000	Summary	69.6	65.6	-4.0	-5.8	3.7	9.5	13.2	2.5	6.5	9.0	8.6
Forest and conservation workers	45-4011	Line item	14.3	14.1	-0.2	-1.3	4.3	11.1	15.4	0.6	1.6	2.2	2.2
Logging workers	45-4020	Summary	55.3	51.5	-3.8	-7.0	3.5	9.1	12.7	1.9	4.9	6.8	6.4
Fallers	45-4021	Line item	7.5	6.7	-0.8	-10.5	3.5	9.1	12.7	0.3	0.7	0.9	0.8
Logging equipment operators	45-4022	Line item	39.1	36.3	-2.7	-7.0	3.5	9.1	12.7	1.3	3.4	4.8	4.5
Log graders and scalers	45-4023	Line item	4.2	4.3	0.1	2.7	3.5	9.1	12.7	0.2	0.4	0.5	0.6
Logging workers, all other	45-4029	Line item	4.5	4.1	-0.4	-9.5	3.5	9.1	12.7	0.2	0.4	0.5	0.5
Construction and extraction occupations	47-0000	Summary	6,812.5	7,570.8	758.4	11.1	3.5	6.6	10.1	251.1	472.8	723.9	799.7
Supervisors of construction and extraction workers	47-1000	Summary	602.5	678.8	76.3	12.7	3.2	6.3	9.5	20.5	40.4	60.9	68.5
workers	47-1011	Line item	602.5	678.8	76.3	12.7	3.2	6.3	9.5	20.5	40.4	60.9	68.5
Construction trades workers	47-2000	Summary	5,347.0	5,918.4	571.4	10.7	3.5	6.4	9.9	194.4	360.4	554.9	612.0
Boilermakers	47-2011	Line item	17.2	18.6	1.4	8.4	3.1	6.5	9.6	0.6	1.2	1.7	1.9
Brickmasons, blockmasons, and stonemasons	47-2020	Summary	110.0	121.5	11.5	10.5	2.9	5.5	8.4	3.3	6.4	9.8	10.9
Brickmasons and blockmasons	47-2021	Line item	91.1	100.8	9.7	10.6	2.9	5.5	8.4	2.8	5.3	8.1	9.1
Stonemasons	47-2022	Line item	18.9	20.7	1.9	9.8	2.9	5.5	8.4	0.6	1.1	1.7	1.9
Carpenters	47-2031	Line item	1,025.6	1,112.6	87.0	8.5	3.4	5.6	9	36.8	59.4	96.2	104.9
Carpet, floor, and tile installers and finishers	47-2040	Summary	122.3	134.5	12.1	9.9	3.2	5.2	8.4	4.0	6.7	10.7	11.9
Carpet installers	47-2041	Line item	40.4	44.4	3.9	9.8	3.2	5.2	8.4	1.3	2.2	3.5	3.9
Floor layers, except carpet, wood, and hard tiles	47-2042	Line item	16.3	18.0	1.6	10.0	3.2	5.2	8.4	0.5	0.9	1.4	1.6
Floor sanders and finishers	47-2043	Line item	7.3	8.0	0.7	9.8	3.2	5.2	8.4	0.2	0.4	0.6	0.7
Tile and marble setters	47-2044	Line item	58.3	64.2	5.8	10.0	3.2	5.2	8.4	1.9	3.2	5.1	5.7
Cement masons, concrete finishers, and terrazzo workers	47-2050	Summary	182.5	205.5	23.0	12.6	3.8	6.8	10.6	7.4	13.2	20.5	22.8
Cement masons and concrete finishers	47-2051	Line item	178.9	201.5	22.6	12.6	3.8	6.8	10.6	7.2	12.9	20.1	22.4
Terrazzo workers and finishers	47-2053	Line item	3.6	4.0	0.4	12.3	3.8	6.8	10.6	0.1	0.3	0.4	0.4
Construction laborers	47-2061	Line item	1,216.7	1,370.0	153.3	12.6	3.5	6.6	10.1	45.1	85.3	130.4	145.7
Construction equipment operators	47-2070	Summary	426.6	479.4	52.8	12.4	3.8	7.0	10.7	17.0	31.7	48.7	54.0
Paving, surfacing, and tamping equipment operators	47-2071	Line item	51.9	58.2	6.3	12.1	3.3	6.8	10.1	1.8	3.7	5.6	6.2
Pile-driver operators	47-2072	Line item	3.7	4.2	0.5	14.7	3.8	7.0	10.8	0.2	0.3	0.4	0.5
operators	47-2073	Line item	371.1	417.1	45.9	12.4	3.8	7.0	10.8	15.0	27.6	42.7	47.3
Drywall installers, ceiling tile installers, and tapers	47-2080	Summary	143.2	144.7	1.5	1.1	3.1	5.6	8.6	4.4	8.0	12.4	12.6
Drywall and ceiling tile installers	47-2081	Line item	119.5	120.9	1.4	1.2	3.1	5.6	8.6	3.7	6.7	10.4	10.5
Tapers	47-2082	Line item	23.7	23.8	0.1	0.6	3.1	5.6	8.6	0.7	1.3	2.0	2.1
Electricians	47-2111	Line item	666.9	727.0	60.1	9.0	3.5	7.4	10.9	24.3	51.8	76.1	82.1
Glaziers	47-2121	Line item	50.1	55.4	5.3	10.6	3.6	7.6	11.3	1.9	4.0	5.9	6.5

Insulation workers	47-2130	Summary	59.5	62.7	3.2	5.4	2.7	7.7	10.4	1.6	4.7	6.3	6.6
Insulation workers, floor, ceiling, and wall	47-2131	Line item	30.9	31.4	0.4	1.3	2.7	7.7	10.4	0.8	2.4	3.2	3.3
Insulation workers, mechanical	47-2132	Line item	28.6	31.4	2.8	9.7	2.7	7.7	10.4	0.8	2.3	3.1	3.4
Painters and paperhangers	47-2140	Summary	387.3	411.0	23.7	6.1	3.4	5.0	8.4	13.6	19.9	33.5	35.9
Painters, construction and maintenance	47-2141	Line item	381.5	405.0	23.4	6.1	3.4	5.0	8.4	13.4	19.6	33.0	35.4
Paperhangers	47-2142	Line item	5.7	6.0	0.3	5.0	3.4	5.0	8.4	0.2	0.3	0.5	0.5
Pipelayers, plumbers, pipefitters, and steamfitters	47-2150	Summary	524.8	608.2	83.4	15.9	3.6	6.7	10.3	20.5	37.9	58.4	66.8
Pipelayers	47-2151	Line item	44.1	51.7	7.6	17.3	3.6	6.7	10.3	1.7	3.2	4.9	5.7
Plumbers, pipefitters, and steamfitters	47-2152	Line item	480.6	556.4	75.8	15.8	3.6	6.7	10.3	18.8	34.7	53.5	61.1
Plasterers and stucco masons	47-2161	Line item	27.7	28.8	1.1	4.0	3.5	5.6	9.2	1.0	1.6	2.6	2.7
Reinforcing iron and rebar workers	47-2171	Line item	20.1	22.5	2.4	12.1	2.5	7.6	10.2	0.5	1.6	2.2	2.4
Roofers	47-2181	Line item	146.2	162.7	16.5	11.3	2.9	6.8	9.7	4.4	10.5	14.9	16.6
Sheet metal workers	47-2211	Line item	138.9	151.0	12.0	8.7	3.5	6.9	10.3	5.0	9.9	15.0	16.2
Structural iron and steel workers	47-2221	Line item	70.2	79.2	9.0	12.8	2.9	7.5	10.4	2.2	5.6	7.8	8.7
Solar photovoltaic installers	47-2231	Line item	11.3	23.2	11.9	105.3	4.0	6.4	10.4	0.7	1.1	1.8	3.0
Helpers, construction trades	47-3000	Summary	232.7	262.8	30.1	12.9	4.2	9.7	13.9	10.5	23.9	34.4	37.4
and marble setters	47-3011	Line item	24.1	27.0	2.9	12.1	4.2	9.7	13.9	1.1	2.5	3.6	3.8
Helpers--carpenters	47-3012	Line item	36.7	41.4	4.7	12.8	4.2	9.7	13.9	1.6	3.8	5.4	5.9
Helpers--electricians	47-3013	Line item	73.2	80.9	7.7	10.6	4.2	9.7	13.9	3.3	7.4	10.7	11.5
masons	47-3014	Line item	10.9	11.4	0.5	4.1	4.2	9.7	13.9	0.5	1.1	1.5	1.6
Helpers--pipelayers, plumbers, pipefitters, and steamfitters	47-3015	Line item	55.5	65.8	10.3	18.6	4.2	9.7	13.9	2.6	5.9	8.4	9.5
Helpers--roofers	47-3016	Line item	10.2	11.5	1.3	12.4	4.2	9.7	13.9	0.5	1.0	1.5	1.6
Helpers, construction trades, all other	47-3019	Line item	22.1	24.8	2.7	12.1	4.2	9.7	13.9	1.0	2.3	3.3	3.5
Other construction and related workers	47-4000	Summary	435.8	480.5	44.6	10.2	4.3	6.4	10.6	19.5	29.2	48.7	53.2
Construction and building inspectors	47-4011	Line item	105.1	115.6	10.5	9.9	4.9	5.7	10.6	5.4	6.2	11.7	12.7
Elevator installers and repairers	47-4021	Line item	22.1	24.8	2.7	12.1	3.1	8.3	11.4	0.7	1.9	2.7	3.0
Fence erectors	47-4031	Line item	25.1	28.0	2.8	11.2	3.4	7.4	10.9	0.9	2.0	2.9	3.2
Hazardous materials removal workers	47-4041	Line item	46.2	54.1	7.9	17.1	4.0	7.8	11.8	2.0	3.9	5.9	6.7
Highway maintenance workers	47-4051	Line item	149.9	160.2	10.3	6.9	4.2	5.7	10	6.6	8.9	15.4	16.5
Rail-track laying and maintenance equipment operators	47-4061	Line item	14.0	15.2	1.2	8.6	3.2	6.4	9.5	0.5	0.9	1.4	1.5
Septic tank servicers and sewer pipe cleaners	47-4071	Line item	28.5	33.3	4.8	16.9	5.0	7.3	12.3	1.5	2.3	3.8	4.3
Miscellaneous construction and related workers	47-4090	Summary	44.8	49.3	4.5	10.0	4.0	6.4	10.4	1.9	3.0	4.9	5.3
Segmental pavers	47-4091	Line item	2.1	2.4	0.3	12.4	4.0	6.4	10.4	0.1	0.1	0.2	0.3
Construction and related workers, all other	47-4099	Line item	42.7	46.9	4.2	9.9	4.0	6.4	10.4	1.8	2.9	4.7	5.1
Extraction workers	47-5000	Summary	194.4	230.4	36.0	18.5	2.9	8.9	11.8	6.2	18.8	25.0	28.6
mining	47-5010	Summary	69.2	85.8	16.6	24.0	2.5	9.3	11.8	1.9	7.2	9.1	10.8
Derrick operators, oil and gas	47-5011	Line item	11.1	13.9	2.8	25.7	2.5	9.3	11.8	0.3	1.2	1.5	1.8
Rotary drill operators, oil and gas	47-5012	Line item	16.7	20.8	4.0	24.2	2.5	9.3	11.8	0.5	1.7	2.2	2.6
Service unit operators, oil, gas, and mining	47-5013	Line item	41.4	51.1	9.7	23.4	2.5	9.3	11.8	1.1	4.3	5.4	6.4
Earth drillers, except oil and gas	47-5021	Line item	19.6	23.5	3.9	19.7	2.5	7.9	10.4	0.5	1.7	2.2	2.6
blasters	47-5031	Line item	6.3	6.8	0.5	7.1	4.7	7.1	11.8	0.3	0.5	0.8	0.8
Mining machine operators	47-5040	Summary	20.6	19.9	-0.8	-3.7	2.9	8.7	11.6	0.6	1.8	2.4	2.3
Continuous mining machine operators	47-5041	Line item	12.3	11.8	-0.5	-3.9	2.9	8.7	11.6	0.4	1.1	1.4	1.4
Mine cutting and channeling machine operators	47-5042	Line item	6.1	5.8	-0.3	-4.7	2.9	8.7	11.6	0.2	0.5	0.7	0.7
Mining machine operators, all other	47-5049	Line item	2.2	2.2	0.0	0.1	2.9	8.7	11.6	0.1	0.2	0.3	0.3
Rock splitters, quarry	47-5051	Line item	3.7	3.5	-0.2	-6.3	3.0	9.2	12.2	0.1	0.3	0.4	0.4
Roof bolters, mining	47-5061	Line item	3.7	3.5	-0.2	-5.2	3.0	9.2	12.2	0.1	0.3	0.4	0.4
Roustabouts, oil and gas	47-5071	Line item	50.0	62.3	12.2	24.5	3.4	8.7	12.1	1.9	4.9	6.8	8.0
Helpers--extraction workers	47-5081	Line item	17.0	20.3	3.3	19.7	3.0	9.2	12.2	0.6	1.7	2.3	2.6
Extraction workers, all other	47-5099	Line item	4.2	4.8	0.7	15.9	3.0	9.2	12.2	0.1	0.4	0.5	0.6
Installation, maintenance, and repair occupations	49-0000	Summary	5,905.4	6,301.5	396.1	6.7	3.5	5.9	9.4	211.9	360.2	572.1	611.7
Supervisors of installation, maintenance, and repair workers	49-1000	Summary	462.2	495.0	32.8	7.1	3.2	5.2	8.4	15.5	24.7	40.2	43.4
First-line supervisors of mechanics, installers, and repairers	49-1011	Line item	462.2	495.0	32.8	7.1	3.2	5.2	8.4	15.5	24.7	40.2	43.4
repairers	49-2000	Summary	628.1	623.0	-5.1	-0.8	3.1	6.7	9.8	19.6	42.0	61.6	61.1
Computer, automated teller, and office machine repairers	49-2011	Line item	119.5	118.6	-0.8	-0.7	3.3	6.4	9.6	3.9	7.6	11.5	11.4
repairers	49-2020	Summary	252.1	234.9	-17.1	-6.8	3.3	7.1	10.4	8.1	17.2	25.3	23.6
Radio, cellular, and tower equipment installers and repairs	49-2021	Line item	14.5	15.3	0.8	5.5	3.3	7.1	10.4	0.5	1.1	1.5	1.6
except line installers	49-2022	Line item	237.6	219.6	-17.9	-7.6	3.3	7.1	10.4	7.6	16.2	23.7	21.9
Miscellaneous electrical and electronic equipment mechanics, installers, and repairers	49-2090	Summary	256.5	269.4	12.9	5.0	2.9	6.5	9.4	7.6	17.2	24.8	26.1
Avionics technicians	49-2091	Line item	17.5	18.6	1.1	6.0	2.1	5.6	7.7	0.4	1.0	1.4	1.5
Electric motor, power tool, and related repairers	49-2092	Line item	17.3	18.6	1.2	7.0	3.0	6.1	9.1	0.5	1.1	1.6	1.8
transportation equipment	49-2093	Line item	13.9	14.3	0.4	2.9	2.5	6.1	8.6	0.4	0.9	1.2	1.3
industrial equipment	49-2094	Line item	68.3	69.9	1.6	2.4	2.5	6.1	8.6	1.7	4.2	5.9	6.1

substation, and relay	49-2095	Line item	23.4	24.3	0.9	3.7	2.5	6.1	8.6	0.6	1.5	2.0	2.1
vehicles	49-2096	Line item	12.1	9.0	-3.0	-25.2	3.3	6.3	9.6	0.3	0.7	1.0	0.7
repairers	49-2097	Line item	31.7	32.1	0.4	1.2	3.5	6.7	10.3	1.1	2.1	3.3	3.3
Security and fire alarm systems installers	49-2098	Line item	72.3	82.6	10.4	14.4	3.3	7.5	10.8	2.5	5.8	8.3	9.4
repairers	49-3000	Summary	1,750.2	1,869.7	119.5	6.8	3.3	6.1	9.3	58.8	110.2	169.0	180.9
Aircraft mechanics and service technicians	49-3011	Line item	132.0	138.4	6.4	4.9	3.1	4.4	7.5	4.2	6.0	10.2	10.8
Automotive technicians and repairers	49-3020	Summary	930.0	992.7	62.8	6.7	3.2	6.0	9.2	30.9	57.9	88.8	95.1
Automotive body and related repairers	49-3021	Line item	160.4	174.3	13.9	8.7	3.5	6.0	9.4	5.8	10.0	15.8	17.2
Automotive glass installers and repairers	49-3022	Line item	19.6	20.9	1.3	6.6	3.7	5.8	9.5	0.8	1.2	1.9	2.1
Automotive service technicians and mechanics	49-3023	Line item	749.9	797.5	47.6	6.3	3.2	6.0	9.2	24.4	46.7	71.1	75.9
Bus and truck mechanics and diesel engine specialists	49-3031	Line item	278.8	305.3	26.5	9.5	3.1	5.7	8.8	9.0	16.7	25.6	28.3
and mechanics	49-3040	Summary	192.1	206.8	14.7	7.7	3.1	6.3	9.4	6.2	12.6	18.8	20.2
Farm equipment mechanics and service technicians	49-3041	Line item	42.5	45.6	3.2	7.4	3.1	6.3	9.4	1.4	2.8	4.1	4.5
Mobile heavy equipment mechanics, except engines	49-3042	Line item	127.4	137.8	10.4	8.2	3.1	6.3	9.4	4.1	8.4	12.5	13.5
Rail car repairers	49-3043	Line item	22.3	23.4	1.1	5.1	3.1	6.3	9.4	0.7	1.4	2.2	2.3
Small engine mechanics	49-3050	Summary	79.3	84.0	4.7	5.9	4.1	6.2	10.2	3.3	5.1	8.4	8.8
Motorboat mechanics and service technicians	49-3051	Line item	23.4	23.5	0.1	0.6	4.1	6.2	10.2	1.0	1.5	2.4	2.4
Motorcycle mechanics	49-3052	Line item	18.3	18.6	0.3	1.4	4.1	6.2	10.2	0.7	1.1	1.9	1.9
mechanics	49-3053	Line item	37.6	41.9	4.3	11.4	4.1	6.2	10.2	1.6	2.5	4.1	4.5
installers, and repairers	49-3090	Summary	138.0	142.4	4.4	3.2	3.7	8.6	12.3	5.2	12.0	17.2	17.7
Bicycle repairers	49-3091	Line item	12.4	16.1	3.7	29.4	3.7	8.6	12.3	0.5	1.2	1.8	2.1
Recreational vehicle service technicians	49-3092	Line item	13.8	13.7	-0.1	-1.1	3.7	8.6	12.3	0.5	1.2	1.7	1.7
Tire repairers and changers	49-3093	Line item	111.7	112.6	0.9	0.8	3.7	8.6	12.3	4.2	9.6	13.8	13.9
Other installation, maintenance, and repair occupations	49-9000	Summary	3,065.0	3,313.8	248.9	8.1	3.7	5.7	9.4	118.0	183.4	301.4	326.3
Control and valve installers and repairers	49-9010	Summary	67.3	71.7	4.4	6.6	2.5	5.0	7.4	1.7	3.4	5.2	5.6
Mechanical door repairers	49-9011	Line item	20.4	22.5	2.1	10.4	2.5	5.0	7.4	0.5	1.1	1.6	1.8
mechanical door	49-9012	Line item	46.9	49.2	2.3	5.0	2.5	5.0	7.4	1.2	2.4	3.6	3.8
installers	49-9021	Line item	332.9	382.0	49.1	14.7	2.8	6.7	9.5	9.9	24.0	33.8	38.7
Home appliance repairers	49-9031	Line item	46.6	46.2	-0.4	-0.9	4.9	4.4	9.2	2.3	2.0	4.3	4.2
workers	49-9040	Summary	477.7	510.0	32.3	6.8	3.5	5.3	8.9	17.4	26.3	43.7	46.9
Industrial machinery mechanics	49-9041	Line item	346.9	370.4	23.5	6.8	3.4	5.2	8.5	12.1	18.5	30.6	33.0
Maintenance workers, machinery	49-9043	Line item	89.7	94.7	5.0	5.6	4.3	5.8	10	3.9	5.3	9.3	9.8
Millwrights	49-9044	Line item	39.5	43.4	3.9	9.8	3.2	5.7	8.8	1.3	2.3	3.7	4.0
Refractory materials repairers, except brickmasons	49-9045	Line item	1.6	1.5	-0.1	-3.5	3.4	5.2	8.5	0.1	0.1	0.1	0.1
Line installers and repairers	49-9050	Summary	227.0	245.5	18.5	8.1	2.5	6.2	8.7	5.9	14.7	20.6	22.4
Electrical power-line installers and repairers	49-9051	Line item	120.9	137.7	16.8	13.9	2.5	5.2	7.8	3.3	6.8	10.0	11.7
Telecommunications line installers and repairers	49-9052	Line item	106.1	107.8	1.7	1.6	2.4	7.4	9.8	2.6	7.9	10.5	10.7
Precision instrument and equipment repairers	49-9060	Summary	73.8	76.5	2.7	3.7	3.8	4.7	8.5	2.9	3.5	6.4	6.7
Camera and photographic equipment repairers	49-9061	Line item	4.0	4.2	0.1	3.3	3.8	4.7	8.5	0.2	0.2	0.4	0.4
Medical equipment repairers	49-9062	Line item	47.1	49.6	2.5	5.3	3.8	4.7	8.5	1.8	2.3	4.1	4.4
Musical instrument repairers and tuners	49-9063	Line item	8.3	8.5	0.2	2.3	3.8	4.7	8.5	0.3	0.4	0.7	0.7
Watch repairers	49-9064	Line item	1.8	1.3	-0.5	-28.7	3.8	4.7	8.5	0.1	0.1	0.1	0.1
Precision instrument and equipment repairers, all other	49-9069	Line item	12.6	12.9	0.4	2.9	3.8	4.7	8.5	0.5	0.6	1.1	1.1
Maintenance and repair workers, general	49-9071	Line item	1,432.6	1,545.3	112.7	7.9	4.1	5.6	9.6	60.7	82.8	143.4	154.7
Wind turbine service technicians	49-9081	Line item	5.8	11.3	5.5	96.1	3.7	5.7	9.4	0.3	0.5	0.8	1.4
Miscellaneous installation, maintenance, and repair workers	49-9090	Summary	401.4	425.5	24.1	6.0	4.1	6.3	10.4	17.0	26.1	43.2	45.6
repairers	49-9091	Line item	36.6	32.1	-4.6	-12.4	4.3	6.7	11	1.5	2.3	3.8	3.3
Commercial divers	49-9092	Line item	4.1	4.5	0.4	10.6	3.7	5.7	9.4	0.2	0.2	0.4	0.4
Fabric menders, except garment	49-9093	Line item	0.7	0.6	-0.1	-7.6	3.7	5.7	9.4	0.0	0.0	0.1	0.1
Locksmiths and safe repairers	49-9094	Line item	28.7	27.8	-0.9	-3.2	4.9	4.2	9.1	1.4	1.2	2.6	2.5
Manufactured building and mobile home installers	49-9095	Line item	4.3	4.0	-0.4	-8.8	3.5	5.3	8.8	0.1	0.2	0.4	0.3
Riggers	49-9096	Line item	20.9	22.9	2.1	9.8	3.1	6.7	9.8	0.7	1.5	2.1	2.3
Signal and track switch repairers	49-9097	Line item	10.0	10.1	0.1	1.1	3.7	5.7	9.4	0.4	0.6	0.9	1.0
Helpers--installation, maintenance, and repair workers	49-9098	Line item	120.2	133.5	13.3	11.1	4.8	7.6	12.4	6.1	9.6	15.7	17.0
Installation, maintenance, and repair workers, all other	49-9099	Line item	175.8	189.9	14.1	8.0	3.7	5.7	9.4	6.7	10.5	17.2	18.6
Production occupations	51-0000	Summary	9,356.9	8,971.6	-385.3	-4.1	4.1	7.1	11.3	380.3	652.0	1,032.3	993.8
Supervisors of production workers	51-1000	Summary	621.4	620.9	-0.5	-0.1	3.2	6.4	9.6	19.8	39.8	59.6	59.5
First-line supervisors of production and operating workers	51-1011	Line item	621.4	620.9	-0.5	-0.1	3.2	6.4	9.6	19.8	39.8	59.6	59.5
Assemblers and fabricators	51-2000	Summary	1,819.3	1,560.2	-259.1	-14.2	4.3	7.1	11.4	72.9	120.3	193.2	167.3
assemblers	51-2011	Line item	41.8	34.5	-7.3	-17.4	4.1	6.1	10.3	1.6	2.3	3.9	3.2
Electrical, electronics, and electromechanical assemblers	51-2020	Summary	278.7	220.7	-58.0	-20.8	5.1	6.5	11.6	12.7	16.3	29.0	23.2
Coil winders, tapers, and finishers	51-2021	Line item	14.1	11.2	-2.9	-20.6	5.1	6.5	11.6	0.6	0.8	1.5	1.2
Electrical and electronic equipment assemblers	51-2022	Line item	218.9	173.6	-45.3	-20.7	5.1	6.5	11.6	9.9	12.8	22.8	18.2
Electromechanical equipment assemblers	51-2023	Line item	45.7	36.0	-9.7	-21.3	5.1	6.5	11.6	2.1	2.7	4.7	3.8

Engine and other machine assemblers	51-2031	Line item	38.0	31.5	-6.5	-17.2	2.5	7.5	10	0.9	2.6	3.5	2.8
Structural metal fabricators and fitters	51-2041	Line item	77.0	65.2	-11.8	-15.3	3.5	7.3	10.8	2.5	5.2	7.7	6.5
Miscellaneous assemblers and fabricators	51-2090	Summary	1,383.8	1,208.2	-175.6	-12.7	4.3	7.2	11.5	55.4	93.9	149.2	131.7
Fiberglass laminators and fabricators	51-2091	Line item	19.7	19.4	-0.3	-1.3	4.3	7.2	11.5	0.8	1.4	2.3	2.2
Team assemblers	51-2092	Line item	1,130.9	987.9	-143.0	-12.6	4.3	7.2	11.5	45.2	76.7	122.0	107.7
Timing device assemblers and adjusters	51-2093	Line item	0.8	0.6	-0.2	-19.9	4.3	7.2	11.5	0.0	0.1	0.1	0.1
Assemblers and fabricators, all other	51-2099	Line item	232.4	200.3	-32.2	-13.8	4.3	7.2	11.5	9.2	15.7	24.9	21.7
Food processing workers	51-3000	Summary	823.0	849.9	26.9	3.3	5.2	7.7	12.8	43.1	64.3	107.4	110.1
Bakers	51-3011	Line item	191.0	203.1	12.1	6.3	6.4	7.5	13.9	12.7	14.8	27.5	28.7
workers	51-3020	Summary	374.6	384.0	9.4	2.5	4.5	7.6	12.1	17.0	28.9	45.9	46.9
Butchers and meat cutters	51-3021	Line item	135.7	143.4	7.7	5.7	4.5	7.6	12.1	6.3	10.6	16.9	17.7
Meat, poultry, and fish cutters and trimmers	51-3022	Line item	156.4	157.7	1.2	0.8	4.5	7.6	12.1	7.1	12.0	19.0	19.1
Slaughters and meat packers	51-3023	Line item	82.5	82.9	0.4	0.5	4.5	7.6	12.1	3.7	6.3	10.0	10.1
Miscellaneous food processing workers	51-3090	Summary	257.4	262.8	5.4	2.1	5.2	7.9	13.1	13.4	20.6	34.1	34.6
operators and tenders	51-3091	Line item	20.1	20.0	-0.1	-0.6	4.1	7.2	11.3	0.8	1.4	2.3	2.3
Food batchmakers	51-3092	Line item	153.7	155.8	2.1	1.3	5.5	8.4	13.8	8.5	12.9	21.4	21.6
Food cooking machine operators and tenders	51-3093	Line item	37.2	38.1	1.0	2.6	5.4	8.1	13.5	2.0	3.1	5.1	5.2
Food processing workers, all other	51-3099	Line item	46.4	48.9	2.5	5.4	4.3	6.8	11.1	2.0	3.2	5.3	5.5
Metal workers and plastic workers	51-4000	Summary	1,954.7	1,886.5	-68.2	-3.5	3.2	7.2	10.4	61.5	137.4	198.9	192.1
Computer control programmers and operators	51-4010	Summary	170.7	176.4	5.7	3.3	2.8	7.0	9.8	4.8	12.2	17.0	17.5
plastic	51-4011	Line item	145.7	147.3	1.6	1.1	2.8	7.0	9.8	4.0	10.3	14.3	14.5
programmers, metal and plastic	51-4012	Line item	25.1	29.2	4.1	16.3	2.8	7.0	9.8	0.7	1.9	2.7	3.1
plastic	51-4020	Summary	120.5	102.1	-18.4	-15.3	2.7	7.4	10	3.0	8.2	11.1	9.3
Extruding and drawing machine setters, operators, and tenders, metal and plastic	51-4021	Line item	72.3	61.3	-11.0	-15.2	2.5	7.5	10	1.7	5.0	6.7	5.6
and plastic	51-4022	Line item	19.2	15.5	-3.7	-19.2	2.9	7.1	10	0.5	1.2	1.7	1.4
and plastic	51-4023	Line item	29.0	25.3	-3.7	-12.9	2.9	7.1	10	0.8	1.9	2.7	2.3
and plastic	51-4030	Summary	332.4	299.3	-33.0	-9.9	3.5	7.3	10.8	11.1	23.1	34.2	30.9
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	51-4031	Line item	192.7	175.9	-16.8	-8.7	3.6	7.6	11.2	6.7	13.9	20.6	18.9
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	51-4032	Line item	12.3	9.9	-2.4	-19.4	3.7	6.9	10.6	0.4	0.8	1.2	0.9
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	51-4033	Line item	76.2	68.5	-7.6	-10.0	3.5	7.0	10.5	2.5	5.1	7.6	6.8
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	51-4034	Line item	33.7	30.8	-2.8	-8.4	2.9	6.8	9.8	0.9	2.2	3.2	2.9
tenders, metal and plastic	51-4035	Line item	17.6	14.2	-3.4	-19.3	3.7	6.9	10.6	0.6	1.1	1.7	1.3
Machinists	51-4041	Line item	396.2	404.6	8.5	2.1	3.5	6.5	10	13.9	26.1	40.0	40.8
Metal furnace operators, tenders, pourers, and casters	51-4050	Summary	26.2	22.8	-3.4	-13.1	3.3	6.4	9.7	0.8	1.6	2.4	2.0
Metal-refining furnace operators and tenders	51-4051	Line item	17.7	16.3	-1.4	-8.1	3.3	6.4	9.7	0.6	1.1	1.6	1.5
Pourers and casters, metal	51-4052	Line item	8.4	6.5	-2.0	-23.4	3.3	6.4	9.7	0.2	0.5	0.7	0.5
Model makers and patternmakers, metal and plastic	51-4060	Summary	9.7	8.4	-1.3	-13.3	3.7	6.9	10.6	0.3	0.6	1.0	0.8
Model makers, metal and plastic	51-4061	Line item	6.3	5.5	-0.8	-12.2	3.7	6.9	10.6	0.2	0.4	0.6	0.6
Patternmakers, metal and plastic	51-4062	Line item	3.4	2.9	-0.5	-15.5	3.7	6.9	10.6	0.1	0.2	0.3	0.3
tenders, metal and plastic	51-4070	Summary	157.9	133.1	-24.8	-15.7	3.7	7.6	11.2	5.3	11.0	16.3	13.9
Foundry mold and coremakers	51-4071	Line item	12.5	9.5	-3.0	-24.0	3.7	7.6	11.2	0.4	0.8	1.2	0.9
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	51-4072	Line item	145.4	123.6	-21.8	-15.0	3.7	7.6	11.2	4.9	10.2	15.1	12.9
and plastic	51-4081	Line item	117.8	114.7	-3.1	-2.6	3.7	6.9	10.6	4.3	8.0	12.4	12.0
Tool and die makers	51-4111	Line item	72.5	67.2	-5.3	-7.3	3.9	5.4	9.3	2.7	3.8	6.5	6.0
Welding, soldering, and brazing workers	51-4120	Summary	454.0	471.2	17.2	3.8	2.7	7.8	10.5	12.3	36.1	48.4	50.2
Welders, cutters, solderers, and brazers	51-4121	Line item	404.8	427.0	22.2	5.5	2.7	7.8	10.5	11.1	32.5	43.6	45.8
operators, and tenders	51-4122	Line item	49.2	44.2	-5.1	-10.3	2.7	7.8	10.5	1.2	3.6	4.9	4.4
Miscellaneous metal workers and plastic workers	51-4190	Summary	96.7	86.6	-10.2	-10.5	3.2	7.3	10.5	2.9	6.7	9.6	8.6
metal and plastic	51-4191	Line item	19.8	17.0	-2.8	-14.1	3.7	6.9	10.6	0.7	1.3	2.0	1.7
Layout workers, metal and plastic	51-4192	Line item	9.2	8.5	-0.6	-6.8	3.7	6.9	10.6	0.3	0.6	0.9	0.9
tenders, metal and plastic	51-4193	Line item	35.3	30.4	-4.9	-13.8	2.5	7.3	9.9	0.8	2.4	3.2	2.8
Tool grinders, filers, and sharpeners	51-4194	Line item	9.5	9.2	-0.3	-3.5	3.0	9.3	12.2	0.3	0.9	1.1	1.1
Metal workers and plastic workers, all other	51-4199	Line item	23.0	21.4	-1.5	-6.6	3.7	6.9	10.6	0.8	1.5	2.4	2.2
Printing workers	51-5100	Summary	267.3	237.9	-29.4	-11.0	4.7	6.4	11.1	11.8	16.3	28.0	25.1
Prepress technicians and workers	51-5111	Line item	34.6	28.0	-6.6	-19.0	4.2	7.6	11.7	1.3	2.4	3.7	3.0
Printing press operators	51-5112	Line item	178.7	162.0	-16.8	-9.4	3.9	6.5	10.4	6.6	11.1	17.7	16.0
Print binding and finishing workers	51-5113	Line item	54.0	47.9	-6.1	-11.3	7.6	5.5	13.1	3.9	2.8	6.7	6.1
Textile, apparel, and furnishings workers	51-6000	Summary	654.3	612.0	-42.3	-6.5	6.2	5.9	12.1	39.4	37.1	76.5	72.3

Laundry and dry-cleaning workers	51-6011	Line item	220.1	219.3	-0.7	-0.3	6.7	6.7	13.4	14.7	14.8	29.5	29.4
Pressers, textile, garment, and related materials	51-6021	Line item	45.0	42.0	-3.0	-6.7	6.0	6.6	12.6	2.6	2.9	5.5	5.2
Sewing machine operators	51-6031	Line item	153.9	132.0	-21.9	-14.2	5.7	4.8	10.5	8.1	6.9	15.0	12.8
Shoe and leather workers	51-6040	Summary	14.6	14.1	-0.6	-4.0	4.8	5.3	10.1	0.7	0.8	1.4	1.4
Shoe and leather workers and repairers	51-6041	Line item	11.0	10.7	-0.3	-2.5	4.7	4.8	9.4	0.5	0.5	1.0	1.0
Shoe machine operators and tenders	51-6042	Line item	3.6	3.3	-0.3	-8.5	5.3	6.7	11.9	0.2	0.2	0.4	0.4
Tailors, dressmakers, and sewers	51-6050	Summary	57.7	57.1	-0.7	-1.2	8.8	3.7	12.6	5.1	2.1	7.2	7.1
Sewers, hand	51-6051	Line item	13.5	12.9	-0.5	-4.0	8.8	3.7	12.6	1.2	0.5	1.7	1.6
Tailors, dressmakers, and custom sewers	51-6052	Line item	44.3	44.1	-0.1	-0.3	8.8	3.7	12.6	3.9	1.6	5.6	5.5
Textile machine setters, operators, and tenders	51-6060	Summary	79.3	65.9	-13.4	-16.9	5.8	6.3	12.1	4.2	4.6	8.7	7.4
tenders	51-6061	Line item	11.3	9.4	-1.9	-17.0	5.3	6.7	11.9	0.5	0.7	1.2	1.0
Textile cutting machine setters, operators, and tenders	51-6062	Line item	15.0	12.6	-2.4	-15.8	6.8	6.8	13.6	0.9	0.9	1.9	1.6
and tenders	51-6063	Line item	22.2	18.1	-4.1	-18.3	5.6	6.9	12.4	1.1	1.4	2.5	2.1
Textile winding, twisting, and drawing out machine setters, operators, and tenders	51-6064	Line item	30.8	25.8	-5.0	-16.3	5.6	5.4	11.1	1.6	1.5	3.1	2.6
Miscellaneous textile, apparel, and furnishings workers	51-6090	Summary	83.7	81.7	-2.0	-2.4	4.8	6.2	11	4.0	5.1	9.1	8.9
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	51-6091	Line item	20.2	18.5	-1.7	-8.5	5.3	6.7	11.9	1.0	1.3	2.3	2.1
Fabric and apparel patternmakers	51-6092	Line item	5.5	4.7	-0.8	-15.0	5.3	6.7	11.9	0.3	0.3	0.6	0.5
Upholsterers	51-6093	Line item	41.6	42.7	1.0	2.5	4.4	5.8	10.2	1.8	2.4	4.3	4.4
Textile, apparel, and furnishings workers, all other	51-6099	Line item	16.3	15.8	-0.5	-3.0	5.3	6.7	11.9	0.8	1.1	1.9	1.9
Woodworkers	51-7000	Summary	279.3	285.1	5.9	2.1	4.5	6.1	10.6	12.6	17.2	29.8	30.4
Cabinetmakers and bench carpenters	51-7011	Line item	109.3	113.0	3.7	3.4	4.7	5.5	10.2	5.2	6.2	11.3	11.7
Furniture finishers	51-7021	Line item	22.4	22.9	0.6	2.5	5.6	3.6	9.1	1.3	0.8	2.1	2.1
Model makers and patternmakers, wood	51-7030	Summary	3.7	3.8	0.1	3.8	5.9	4.8	10.8	0.2	0.2	0.4	0.4
Model makers, wood	51-7031	Line item	1.9	2.0	0.1	3.6	5.9	4.8	10.8	0.1	0.1	0.2	0.2
Patternmakers, wood	51-7032	Line item	1.8	1.8	0.1	3.9	5.9	4.8	10.8	0.1	0.1	0.2	0.2
Woodworking machine setters, operators, and tenders	51-7040	Summary	131.9	132.8	1.0	0.7	3.9	7.1	11.1	5.2	9.4	14.6	14.7
Sawing machine setters, operators, and tenders, wood	51-7041	Line item	54.8	55.2	0.4	0.8	4.1	7.4	11.4	2.2	4.1	6.3	6.3
except sawing	51-7042	Line item	77.1	77.6	0.6	0.7	3.8	7.0	10.8	3.0	5.4	8.3	8.4
Woodworkers, all other	51-7099	Line item	12.1	12.6	0.5	4.1	5.9	4.8	10.8	0.7	0.6	1.3	1.4
Plant and system operators	51-8000	Summary	314.0	309.7	-4.3	-1.4	2.6	6.4	9	8.2	19.9	28.2	27.8
Power plant operators, distributors, and dispatchers	51-8010	Summary	54.7	54.2	-0.6	-1.0	2.5	6.1	8.6	1.3	3.3	4.7	4.6
Nuclear power reactor operators	51-8011	Line item	7.0	6.3	-0.7	-10.2	2.5	6.1	8.6	0.2	0.4	0.6	0.5
Power distributors and dispatchers	51-8012	Line item	11.6	11.3	-0.3	-2.5	2.5	6.1	8.6	0.3	0.7	1.0	1.0
Power plant operators	51-8013	Line item	36.1	36.5	0.5	1.3	2.5	6.1	8.6	0.9	2.2	3.1	3.2
Stationary engineers and boiler operators	51-8021	Line item	35.7	37.4	1.7	4.8	3.2	7.0	10.3	1.2	2.6	3.8	3.9
Water and wastewater treatment plant and system operators	51-8031	Line item	119.2	115.4	-3.8	-3.2	2.8	5.3	8.2	3.3	6.2	9.6	9.2
Miscellaneous plant and system operators	51-8090	Summary	104.4	102.7	-1.7	-1.6	2.3	7.5	9.8	2.4	7.8	10.2	10.0
Chemical plant and system operators	51-8091	Line item	33.2	30.1	-3.1	-9.2	2.3	7.5	9.8	0.7	2.4	3.1	2.8
Gas plant operators	51-8092	Line item	17.3	17.3	0.0	0.0	2.3	7.5	9.8	0.4	1.3	1.7	1.7
and gaugers	51-8093	Line item	41.8	43.0	1.2	2.8	2.3	7.5	9.8	1.0	3.2	4.2	4.3
Plant and system operators, all other	51-8099	Line item	12.1	12.4	0.2	1.9	2.3	7.5	9.8	0.3	0.9	1.2	1.2
Other production occupations	51-9000	Summary	2,623.7	2,609.5	-14.2	-0.5	4.2	7.6	11.9	110.8	199.8	310.6	309.2
tenders	51-9010	Summary	121.3	117.7	-3.5	-2.9	2.7	7.8	10.6	3.3	9.4	12.7	12.3
Chemical equipment operators and tenders	51-9011	Line item	74.1	70.4	-3.6	-4.9	2.7	7.8	10.6	2.0	5.7	7.6	7.3
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	51-9012	Line item	47.2	47.3	0.1	0.2	2.7	7.8	10.6	1.3	3.7	5.0	5.0
Crushing, grinding, polishing, mixing, and blending workers	51-9020	Summary	187.7	176.2	-11.5	-6.1	3.6	7.5	11.1	6.6	13.6	20.2	19.0
operators, and tenders	51-9021	Line item	30.2	28.2	-2.0	-6.7	3.6	7.5	11.1	1.1	2.2	3.2	3.0
Grinding and polishing workers, hand	51-9022	Line item	26.6	21.1	-5.4	-20.5	3.6	7.5	11.1	0.9	1.8	2.6	2.1
tenders	51-9023	Line item	131.0	126.9	-4.1	-3.1	3.6	7.5	11.1	4.6	9.7	14.3	13.9
Cutting workers	51-9030	Summary	78.3	74.3	-4.0	-5.1	3.6	7.6	11.2	2.8	5.8	8.6	8.2
Cutters and trimmers, hand	51-9031	Line item	14.7	13.2	-1.5	-10.0	3.6	7.6	11.2	0.5	1.1	1.6	1.4
tenders	51-9032	Line item	63.6	61.1	-2.5	-3.9	3.6	7.6	11.2	2.3	4.8	7.0	6.8
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	51-9041	Line item	71.4	67.5	-3.8	-5.4	3.9	8.0	11.9	2.7	5.6	8.3	7.9
Furnace, kiln, oven, drier, and kettle operators and tenders	51-9051	Line item	21.9	20.8	-1.1	-5.0	4.2	5.5	9.7	0.9	1.2	2.1	2.0
Inspectors, testers, sorters, samplers, and weighers	51-9061	Line item	520.7	465.2	-55.5	-10.7	4.2	7.7	11.8	20.5	37.7	58.2	52.7
Jewelers and precious stone and metal workers	51-9071	Line item	37.7	36.5	-1.2	-3.1	6.0	4.4	10.4	2.2	1.6	3.9	3.7
Medical, dental, and ophthalmic laboratory technicians	51-9080	Summary	82.2	93.2	11.0	13.4	4.3	6.7	11	3.8	5.8	9.6	10.7
Dental laboratory technicians	51-9081	Line item	38.1	43.7	5.5	14.5	4.3	6.7	11	1.8	2.7	4.5	5.0
Medical appliance technicians	51-9082	Line item	15.0	17.0	2.0	13.7	4.3	6.7	11	0.7	1.1	1.8	2.0
Ophthalmic laboratory technicians	51-9083	Line item	29.1	32.5	3.5	11.9	4.3	6.7	11	1.3	2.0	3.4	3.7

Packaging and filling machine operators and tenders	51-9111	Line item	383.0	389.7	6.7	1.7	4.7	6.6	11.4	18.3	25.7	43.9	44.6
Painting workers	51-9120	Summary	164.2	168.6	4.3	2.6	2.9	7.5	10.3	4.7	12.4	17.2	17.6
operators, and tenders	51-9121	Line item	89.9	90.1	0.2	0.2	2.9	7.5	10.3	2.6	6.7	9.3	9.3
Painters, transportation equipment	51-9122	Line item	58.1	62.0	4.0	6.9	2.9	7.5	10.3	1.7	4.5	6.2	6.6
Painting, coating, and decorating workers	51-9123	Line item	16.3	16.5	0.2	1.1	2.9	7.5	10.3	0.5	1.2	1.7	1.7
Semiconductor processors	51-9141	Line item	25.5	24.2	-1.3	-5.1	3.9	7.3	11.2	1.0	1.8	2.8	2.7
operators	51-9151	Line item	26.9	21.9	-4.9	-18.4	5.2	10.3	15.5	1.3	2.5	3.8	3.3
Miscellaneous production workers	51-9190	Summary	902.8	953.4	50.6	5.6	4.6	8.2	12.9	42.9	76.5	119.5	124.5
Adhesive bonding machine operators and tenders	51-9191	Line item	17.0	16.6	-0.5	-2.7	4.7	6.1	10.8	0.8	1.0	1.8	1.8
operators and tenders	51-9192	Line item	17.2	17.3	0.1	0.4	4.6	8.2	12.8	0.8	1.4	2.2	2.2
Cooling and freezing equipment operators and tenders	51-9193	Line item	8.7	8.8	0.2	1.9	3.9	7.3	11.2	0.3	0.6	1.0	1.0
Etchers and engravers	51-9194	Line item	10.6	10.7	0.1	1.0	6.1	5.8	11.9	0.6	0.6	1.3	1.3
Molders, shapers, and casters, except metal and plastic	51-9195	Line item	43.0	42.5	-0.4	-1.0	3.8	6.2	10	1.6	2.6	4.3	4.2
Paper goods machine setters, operators, and tenders	51-9196	Line item	94.6	86.1	-8.5	-9.0	3.6	6.5	10.1	3.3	5.9	9.2	8.3
Tire builders	51-9197	Line item	22.3	19.6	-2.7	-12.1	3.2	8.0	11.1	0.7	1.7	2.3	2.1
Helpers--production workers	51-9198	Line item	426.0	475.5	49.5	11.6	5.4	9.5	14.9	24.2	42.9	67.1	72.0
Production workers, all other	51-9199	Line item	263.5	276.3	12.8	4.9	3.9	7.3	11.2	10.6	19.7	30.3	31.6
Transportation and material moving occupations	53-0000	Summary	10,274.2	10,918.1	643.9	6.3	4.9	7.1	12	518.8	751.7	1,270.5	1,334.8
Supervisors of transportation and material moving workers	53-1000	Summary	396.2	425.9	29.7	7.5	3.2	6.9	10.1	13.2	28.3	41.5	44.4
Aircraft cargo handling supervisors	53-1011	Line item	7.6	8.1	0.5	5.9	3.2	6.9	10.1	0.3	0.5	0.8	0.8
movers, hand	53-1021	Line item	184.4	200.1	15.7	8.5	3.2	6.9	10.1	6.2	13.2	19.4	21.0
First-line supervisors of transportation and material-moving machine and vehicle operators	53-1031	Line item	204.2	217.7	13.6	6.6	3.2	6.9	10.1	6.8	14.5	21.3	22.6
Air transportation workers	53-2000	Summary	275.3	293.2	18.0	6.5	3.8	6.0	9.8	10.7	17.1	27.8	29.6
Aircraft pilots and flight engineers	53-2010	Summary	124.8	129.2	4.4	3.5	2.8	6.4	9.2	3.5	8.1	11.7	12.1
Airline pilots, copilots, and flight engineers	53-2011	Line item	84.0	86.9	2.9	3.4	2.8	6.4	9.2	2.4	5.5	7.8	8.1
Commercial pilots	53-2012	Line item	40.8	42.3	1.5	3.8	2.8	6.4	9.2	1.2	2.7	3.8	4.0
Air traffic controllers and airfield operations specialists	53-2020	Summary	33.8	35.5	1.6	4.9	3.2	5.9	9.1	1.1	2.0	3.2	3.3
Air traffic controllers	53-2021	Line item	24.9	25.8	0.9	3.5	3.2	5.9	9.1	0.8	1.5	2.3	2.4
Airfield operations specialists	53-2022	Line item	8.9	9.7	0.8	8.8	3.2	5.9	9.1	0.3	0.5	0.8	0.9
Flight attendants	53-2031	Line item	116.6	128.5	11.9	10.2	4.9	5.7	10.6	6.1	6.9	13.0	14.2
Motor vehicle operators	53-3000	Summary	4,358.9	4,598.8	239.9	5.5	5.0	5.8	10.8	225.4	258.7	484.2	508.1
medical technicians	53-3011	Line item	17.3	21.1	3.8	21.9	6.1	8.1	14.2	1.2	1.5	2.7	3.1
Bus drivers	53-3020	Summary	687.2	729.6	42.5	6.2	7.8	4.1	11.9	55.6	28.9	84.5	88.7
Bus drivers, transit and intercity	53-3021	Line item	179.3	195.1	15.9	8.8	7.8	4.1	11.9	14.7	7.6	22.3	23.9
Bus drivers, school or special client	53-3022	Line item	507.9	534.5	26.6	5.2	7.8	4.1	11.9	40.9	21.3	62.2	64.8
Driver/sales workers and truck drivers	53-3030	Summary	3,293.1	3,466.2	173.1	5.3	4.2	6.3	10.5	143.3	212.3	355.6	372.9
Driver/sales workers	53-3031	Line item	467.9	462.4	-5.5	-1.2	4.2	6.3	10.5	19.7	29.2	48.9	48.4
Heavy and tractor-trailer truck drivers	53-3032	Line item	1,871.7	1,985.5	113.8	6.1	4.2	6.3	10.5	81.8	121.2	202.9	214.3
Light truck or delivery services drivers	53-3033	Line item	953.5	1,018.3	64.8	6.8	4.2	6.3	10.5	41.8	61.9	103.7	110.2
Taxi drivers and chauffeurs	53-3041	Line item	305.1	319.9	14.7	4.8	5.9	4.0	10	18.6	12.6	31.2	32.7
Motor vehicle operators, all other	53-3099	Line item	56.2	62.0	5.8	10.3	11.6	5.5	17.1	6.8	3.3	10.1	10.7
Rail transportation workers	53-4000	Summary	122.9	120.6	-2.3	-1.9	2.5	6.2	8.7	3.1	7.5	10.6	10.4
Locomotive engineers and operators	53-4010	Summary	44.4	42.5	-1.8	-4.1	2.4	5.6	8	1.0	2.4	3.5	3.3
Locomotive engineers	53-4011	Line item	38.8	37.7	-1.1	-2.8	2.4	5.6	8	0.9	2.1	3.1	3.0
Locomotive firers	53-4012	Line item	1.2	0.3	-0.9	-78.6	2.4	5.6	8	0.0	0.0	0.1	0.0
Rail yard engineers, dinkey operators, and hostlers	53-4013	Line item	4.4	4.6	0.2	3.7	2.4	5.6	8	0.1	0.3	0.4	0.4
Railroad brake, signal, and switch operators	53-4021	Line item	19.3	19.0	-0.3	-1.6	2.4	6.7	9.1	0.5	1.3	1.7	1.7
Railroad conductors and yardmasters	53-4031	Line item	41.8	41.0	-0.9	-2.1	2.4	6.7	9.1	1.0	2.8	3.8	3.7
Subway and streetcar operators	53-4041	Line item	12.8	13.4	0.5	4.1	3.3	6.0	9.2	0.4	0.8	1.2	1.3
Rail transportation workers, all other	53-4099	Line item	4.6	4.8	0.1	3.2	3.3	6.0	9.2	0.2	0.3	0.4	0.4
Water transportation workers	53-5000	Summary	86.3	93.2	6.9	8.0	3.7	7.3	10.9	3.3	6.5	9.8	10.5
Sailors and marine oilers	53-5011	Line item	33.8	36.4	2.6	7.6	4.0	7.9	11.8	1.4	2.8	4.1	4.4
Ship and boat captains and operators	53-5020	Summary	42.4	46.1	3.7	8.7	3.4	6.7	10	1.5	3.0	4.4	4.8
Captains, mates, and pilots of water vessels	53-5021	Line item	38.8	42.2	3.4	8.8	3.4	6.7	10	1.4	2.7	4.1	4.4
Motorboat operators	53-5022	Line item	3.6	3.9	0.3	7.6	3.4	6.7	10	0.1	0.2	0.4	0.4
Ship engineers	53-5031	Line item	10.1	10.8	0.7	6.5	4.0	7.9	11.8	0.4	0.8	1.2	1.3
Other transportation workers	53-6000	Summary	356.5	384.4	27.9	7.8	5.4	8.8	14.2	20.2	32.5	52.7	55.4
Bridge and lock tenders	53-6011	Line item	3.7	3.8	0.2	4.9	4.3	6.9	11.2	0.2	0.3	0.4	0.4
Parking lot attendants	53-6021	Line item	151.6	160.6	9.0	6.0	5.9	8.8	14.7	9.2	13.8	22.9	23.8
Automotive and watercraft service attendants	53-6031	Line item	110.0	121.7	11.7	10.6	5.4	10.9	16.3	6.2	12.6	18.9	20.0
Traffic technicians	53-6041	Line item	6.6	7.2	0.6	9.1	4.3	6.9	11.2	0.3	0.5	0.8	0.8
Transportation inspectors	53-6051	Line item	28.2	29.8	1.7	5.9	3.5	5.9	9.5	1.0	1.7	2.7	2.9
Transportation attendants, except flight attendants	53-6061	Line item	18.5	20.0	1.6	8.4	8.4	4.7	13.1	1.6	0.9	2.5	2.7

Transportation workers, all other	53-6099	Line item	38.0	41.2	3.1	8.3	4.3	6.9	11.2	1.7	2.7	4.4	4.8
Material moving workers	53-7000	Summary	4,678.0	5,001.9	323.9	6.9	5.0	8.3	13.3	242.9	401.0	643.9	676.3
Conveyor operators and tenders	53-7011	Line item	28.1	27.7	-0.3	-1.2	5.0	8.3	13.3	1.4	2.3	3.7	3.7
Crane and tower operators	53-7021	Line item	46.0	50.0	4.0	8.6	3.3	7.0	10.3	1.6	3.4	4.9	5.3
Dredge, excavating, and loading machine operators	53-7030	Summary	55.1	59.3	4.3	7.8	3.7	7.2	10.8	2.1	4.1	6.2	6.6
Dredge operators	53-7031	Line item	1.8	1.9	0.1	5.3	3.7	7.2	10.8	0.1	0.1	0.2	0.2
Excavating and loading machine and dragline operators	53-7032	Line item	50.6	54.9	4.3	8.4	3.7	7.2	10.8	1.9	3.8	5.7	6.1
Loading machine operators, underground mining	53-7033	Line item	2.6	2.5	-0.1	-3.2	3.7	7.2	10.8	0.1	0.2	0.3	0.3
Hoist and winch operators	53-7041	Line item	2.9	2.9	0.0	-0.7	5.0	8.3	13.3	0.1	0.2	0.4	0.4
Industrial truck and tractor operators	53-7051	Line item	549.9	586.1	36.2	6.6	3.5	7.5	11	19.8	42.5	62.3	65.9
Laborers and material movers, hand	53-7060	Summary	3,796.0	4,051.3	255.3	6.7	5.3	8.5	13.8	208.6	332.7	541.3	566.9
Cleaners of vehicles and equipment	53-7061	Line item	369.2	409.1	39.9	10.8	5.2	8.7	13.8	20.1	33.8	53.8	57.8
Laborers and freight, stock, and material movers, hand	53-7062	Line item	2,628.4	2,829.2	200.8	7.6	5.0	8.6	13.5	135.2	233.3	368.5	388.6
Machine feeders and offbearers	53-7063	Line item	87.7	89.3	1.6	1.8	5.4	8.0	13.4	4.8	7.1	11.9	12.0
Packers and packagers, hand	53-7064	Line item	710.8	723.8	13.0	1.8	6.8	8.2	14.9	48.6	58.5	107.1	108.4
Pumping station operators	53-7070	Summary	27.3	31.6	4.3	15.6	3.6	8.3	11.9	1.1	2.4	3.5	3.9
Gas compressor and gas pumping station operators	53-7071	Line item	3.9	4.0	0.1	3.3	3.6	8.3	11.9	0.1	0.3	0.5	0.5
Pump operators, except wellhead pumpers	53-7072	Line item	11.9	13.5	1.6	13.8	3.6	8.3	11.9	0.5	1.1	1.5	1.7
Wellhead pumpers	53-7073	Line item	11.5	14.0	2.5	21.7	3.6	8.3	11.9	0.5	1.1	1.5	1.8
Refuse and recyclable material collectors	53-7081	Line item	136.0	153.6	17.7	13.0	4.5	7.3	11.8	6.6	10.6	17.1	18.9
Mine shuttle car operators	53-7111	Line item	1.5	1.2	-0.3	-21.9	4.4	7.3	11.8	0.1	0.1	0.2	0.1
Tank car, truck, and ship loaders	53-7121	Line item	10.8	11.4	0.6	5.2	4.4	7.3	11.8	0.5	0.8	1.3	1.4
Material moving workers, all other	53-7199	Line item	24.4	26.7	2.3	9.3	4.4	7.3	11.8	1.1	1.9	3.0	3.2

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



**Table 1.11 Educational attainment for workers 25 years and older by detailed occupation, 2015-16**

2016 National Employment Matrix title and code		Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree
Total, all occupations	00-0000	8.6	23.9	21.0	9.4	22.8	9.9	4.2
Chief executives <sup>(1)</sup>	11-1011	1.5	9.0	14.7	5.4	39.8	22.3	7.4
General and operations managers	11-1021	2.6	17.1	25.4	9.4	33.0	11.1	1.5
Legislators <sup>(1)</sup>	11-1031	1.5	9.0	14.7	5.4	39.8	22.3	7.4
Advertising and promotions managers	11-2011	0.7	5.0	11.1	4.4	62.7	13.3	2.8
Marketing managers <sup>(1)</sup>	11-2021	0.9	7.4	15.7	6.5	50.5	17.4	1.6
Sales managers <sup>(1)</sup>	11-2022	0.9	7.4	15.7	6.5	50.5	17.4	1.6
Public relations and fundraising managers	11-2031	0.2	1.5	7.6	2.8	58.5	25.5	3.8
Administrative services managers	11-3011	2.1	17.9	26.1	12.1	29.7	10.3	1.7
Computer and information systems managers	11-3021	0.4	4.0	14.0	7.7	46.1	25.2	2.6
Financial managers	11-3031	1.1	10.0	17.6	7.9	41.2	19.7	2.5
Industrial production managers	11-3051	4.7	21.6	21.2	8.5	31.0	11.9	1.1
Purchasing managers	11-3061	0.8	10.8	19.2	7.7	39.9	18.5	3.1
Transportation, storage, and distribution managers	11-3071	5.4	28.7	28.3	8.4	22.5	6.3	0.4
Compensation and benefits managers	11-3111	0.2	7.4	13.7	8.4	47.2	22.8	0.4
Human resources managers	11-3121	2.5	11.3	18.4	8.3	36.9	19.8	2.9
Training and development managers	11-3131	0.5	6.1	15.9	10.4	39.8	23.0	4.3
Farmers, ranchers, and other agricultural managers	11-9013	11.6	35.1	19.6	9.5	20.1	3.0	1.1
Construction managers	11-9021	6.9	25.3	24.5	8.4	28.2	5.8	0.8
center/program <sup>(1)</sup>	11-9031	0.9	5.0	7.5	4.9	24.1	43.7	13.9
school <sup>(1)</sup>	11-9032	0.9	5.0	7.5	4.9	24.1	43.7	13.9
Education administrators, postsecondary <sup>(1)</sup>	11-9033	0.9	5.0	7.5	4.9	24.1	43.7	13.9
Education administrators, all other <sup>(1)</sup>	11-9039	0.9	5.0	7.5	4.9	24.1	43.7	13.9
Architectural and engineering managers	11-9041	0.8	3.5	6.9	4.2	45.1	33.8	5.8
Food service managers	11-9051	8.9	28.3	27.4	9.7	21.4	3.7	0.6
Funeral service managers <sup>(1)</sup>	11-9061	2.8	13.8	18.6	7.5	36.0	17.7	3.6
Gaming managers	11-9071	4.7	24.0	33.5	11.6	19.0	6.6	0.7
Lodging managers	11-9081	3.0	16.9	26.3	10.6	33.6	8.0	1.5
Medical and health services managers	11-9111	1.3	8.0	15.9	11.9	30.6	24.3	8.1
Natural sciences managers	11-9121	0.9	1.2	3.4	3.0	33.2	34.7	23.7
Postmasters and mail superintendents <sup>(1)</sup>	11-9131	2.8	13.8	18.6	7.5	36.0	17.7	3.6
managers	11-9141	4.4	18.4	25.8	9.0	31.0	9.3	2.2
Social and community service managers	11-9151	0.9	7.3	13.9	5.5	38.3	28.6	5.5
Emergency management directors	11-9161	0.0	3.6	22.3	10.8	40.0	22.4	0.9
Managers, all other <sup>(1)</sup>	11-9199	2.8	13.8	18.6	7.5	36.0	17.7	3.6
performers, and athletes	13-1011	2.1	11.1	23.1	5.4	43.1	10.1	5.1
Buyers and purchasing agents, farm products	13-1021	10.4	32.6	18.1	6.8	27.3	2.8	2.1
Wholesale and retail buyers, except farm products	13-1022	4.4	24.2	25.3	9.3	31.7	4.1	0.9
farm products	13-1023	1.6	16.8	24.6	10.8	36.2	8.9	1.1

Claims adjusters, examiners, and investigators <sup>(1)</sup>	13-1031	1.1	14.8	23.8	10.6	40.2	7.3	2.2
Insurance appraisers, auto damage <sup>(1)</sup>	13-1032	1.1	14.8	23.8	10.6	40.2	7.3	2.2
Compliance officers	13-1041	1.1	7.9	18.1	8.4	40.4	17.1	7.0
Cost estimators	13-1051	2.7	23.1	27.7	11.6	29.9	4.4	0.6
Human resources specialists <sup>(1)</sup>	13-1071	1.6	9.8	18.5	8.5	43.5	16.0	2.1
Farm labor contractors <sup>(1)</sup>	13-1074	1.6	9.8	18.5	8.5	43.5	16.0	2.1
Labor relations specialists <sup>(1)</sup>	13-1075	1.6	9.8	18.5	8.5	43.5	16.0	2.1
Logisticians	13-1081	1.8	14.5	26.6	12.8	33.1	10.4	0.8
Management analysts	13-1111	0.7	4.8	11.5	4.7	42.3	28.7	7.3
Meeting, convention, and event planners	13-1121	1.9	10.3	18.0	6.9	49.4	12.1	1.3
Fundraisers	13-1131	0.8	3.4	6.8	2.6	55.5	26.4	4.6
Compensation, benefits, and job analysis specialists	13-1141	0.8	10.5	22.1	10.7	40.8	14.1	1.1
Training and development specialists	13-1151	1.9	11.4	21.6	10.1	35.0	18.2	1.9
Market research analysts and marketing specialists	13-1161	0.7	3.8	9.4	5.3	54.3	23.4	3.1
Business operations specialists, all other	13-1199	1.5	9.2	15.9	7.6	41.1	20.1	4.6
Accountants and auditors	13-2011	0.0	4.0	7.6	9.2	55.6	20.8	2.8
Appraisers and assessors of real estate	13-2021	0.7	11.2	24.8	9.6	42.8	9.0	2.0
Budget analysts	13-2031	0.4	6.4	13.0	7.0	42.6	26.4	4.2
Credit analysts	13-2041	0.4	8.6	21.1	7.9	45.1	15.9	0.9
Financial analysts	13-2051	0.5	2.6	6.0	3.5	50.8	33.2	3.4
Personal financial advisors	13-2052	0.3	3.9	10.7	5.0	51.8	22.8	5.6
Insurance underwriters	13-2053	0.6	13.3	19.3	8.7	46.5	9.1	2.5
Financial examiners	13-2061	0.0	4.9	6.4	6.7	58.8	21.4	1.8
Credit counselors <sup>(1)</sup>	13-2071	1.1	14.3	24.4	9.7	40.1	9.0	1.3
Loan officers <sup>(1)</sup>	13-2072	1.1	14.3	24.4	9.7	40.1	9.0	1.3
Tax examiners and collectors, and revenue agents	13-2081	1.5	16.1	25.0	9.2	36.5	11.2	0.6
Tax preparers	13-2082	1.3	11.6	21.0	10.0	35.2	15.4	5.5
Financial specialists, all other	13-2099	1.9	11.8	17.4	8.4	38.3	19.5	2.7
Computer and information research scientists	15-1111	0.4	4.9	2.5	0.3	34.8	33.0	24.0
Computer systems analysts	15-1121	0.5	4.6	13.4	7.8	47.4	23.4	2.9
Information security analysts	15-1122	0.7	4.5	16.8	10.4	42.9	22.4	2.3
Computer programmers	15-1131	0.6	4.6	12.9	8.7	50.9	19.7	2.8
Software developers, applications <sup>(1)</sup>	15-1132	0.4	2.1	8.2	4.8	50.3	30.3	3.9
Software developers, systems software <sup>(1)</sup>	15-1133	0.4	2.1	8.2	4.8	50.3	30.3	3.9
Web developers	15-1134	0.6	4.8	15.5	9.7	54.0	13.8	1.6
Database administrators	15-1141	0.7	5.7	12.5	8.8	45.1	24.2	3.0
Network and computer systems administrators	15-1142	0.4	7.2	23.3	15.1	40.7	12.0	1.2
Computer network architects	15-1143	0.5	5.8	22.3	12.7	40.0	16.9	1.8
Computer user support specialists <sup>(1)</sup>	15-1151	0.6	8.9	25.3	16.0	37.4	10.5	1.2
Computer network support specialists <sup>(1)</sup>	15-1152	0.6	8.9	25.3	16.0	37.4	10.5	1.2
Computer occupations, all other	15-1199	0.8	7.5	20.6	14.7	39.2	15.7	1.4
Actuaries	15-2011	0.0	0.0	1.2	1.5	62.1	24.9	10.3
Mathematicians <sup>(1)</sup>	15-2021	0.0	0.0	4.1	2.3	30.2	40.6	22.8
Operations research analysts	15-2031	0.4	5.8	13.3	6.2	41.1	28.4	4.7
Statisticians <sup>(1)</sup>	15-2041	0.0	0.0	4.1	2.3	30.2	40.6	22.8

Mathematical technicians <sup>(1)</sup>	15-2091	0.0	0.0	4.1	2.3	30.2	40.6	22.8
Mathematical science occupations, all other <sup>(1)</sup>	15-2099	0.0	0.0	4.1	2.3	30.2	40.6	22.8
Architects, except landscape and naval <sup>(1)</sup>	17-1011	0.2	1.5	4.1	2.8	48.8	35.2	7.4
Landscape architects <sup>(1)</sup>	17-1012	0.2	1.5	4.1	2.8	48.8	35.2	7.4
Cartographers and photogrammetrists <sup>(1)</sup>	17-1021	0.9	4.3	8.9	6.3	65.8	11.0	2.8
Surveyors <sup>(1)</sup>	17-1022	0.9	4.3	8.9	6.3	65.8	11.0	2.8
Aerospace engineers	17-2011	0.7	1.8	6.7	4.6	49.1	31.9	5.3
Agricultural engineers <sup>(1)</sup>	17-2021	0.0	2.6	3.6	16.3	43.7	25.8	8.1
Biomedical engineers <sup>(1)</sup>	17-2031	0.0	2.6	3.6	16.3	43.7	25.8	8.1
Chemical engineers	17-2041	0.1	2.4	3.5	3.5	56.6	25.2	8.7
Civil engineers	17-2051	0.5	3.3	5.7	5.1	55.2	26.1	4.0
Computer hardware engineers	17-2061	0.2	4.9	11.5	7.4	47.4	24.0	4.7
Electrical engineers <sup>(1)</sup>	17-2071	0.7	3.2	8.5	8.1	49.3	24.1	6.1
Electronics engineers, except computer <sup>(1)</sup>	17-2072	0.7	3.2	8.5	8.1	49.3	24.1	6.1
Environmental engineers	17-2081	0.2	4.5	4.6	3.5	47.2	34.4	5.5
engineers and inspectors <sup>(1)</sup>	17-2111	0.7	7.0	12.5	8.6	50.8	18.4	2.1
Industrial engineers <sup>(1)</sup>	17-2112	0.7	7.0	12.5	8.6	50.8	18.4	2.1
Marine engineers and naval architects	17-2121	2.1	6.2	7.7	8.9	53.1	20.2	1.8
Materials engineers	17-2131	0.6	5.9	12.0	8.5	45.0	20.9	7.1
Mechanical engineers	17-2141	0.8	3.8	9.1	9.8	51.9	21.1	3.5
safety engineers <sup>(1)</sup>	17-2151	0.3	5.2	7.6	2.9	54.8	24.5	4.6
Nuclear engineers <sup>(1)</sup>	17-2161	0.4	2.9	7.8	6.9	47.9	26.9	7.2
Petroleum engineers <sup>(1)</sup>	17-2171	0.3	5.2	7.6	2.9	54.8	24.5	4.6
Engineers, all other <sup>(1)</sup>	17-2199	0.4	2.9	7.8	6.9	47.9	26.9	7.2
Architectural and civil drafters <sup>(1)</sup>	17-3011	0.8	11.1	28.0	32.8	22.8	3.9	0.6
Electrical and electronics drafters <sup>(1)</sup>	17-3012	0.8	11.1	28.0	32.8	22.8	3.9	0.6
Mechanical drafters <sup>(1)</sup>	17-3013	0.8	11.1	28.0	32.8	22.8	3.9	0.6
Drafters, all other <sup>(1)</sup>	17-3019	0.8	11.1	28.0	32.8	22.8	3.9	0.6
Aerospace engineering and operations technicians <sup>(1)</sup>	17-3021	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Civil engineering technicians <sup>(1)</sup>	17-3022	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Electrical and electronics engineering technicians <sup>(1)</sup>	17-3023	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Electro-mechanical technicians <sup>(1)</sup>	17-3024	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Environmental engineering technicians <sup>(1)</sup>	17-3025	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Industrial engineering technicians <sup>(1)</sup>	17-3026	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Mechanical engineering technicians <sup>(1)</sup>	17-3027	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Engineering technicians, except drafters, all other <sup>(1)</sup>	17-3029	3.5	22.4	31.0	22.6	17.1	2.9	0.6
Surveying and mapping technicians	17-3031	5.9	28.8	38.1	20.9	5.3	0.8	0.3
Animal scientists <sup>(1)</sup>	19-1011	0.0	0.0	0.0	0.0	53.5	30.0	16.5
Food scientists and technologists <sup>(1)</sup>	19-1012	0.0	0.0	0.0	0.0	53.5	30.0	16.5
Soil and plant scientists <sup>(1)</sup>	19-1013	0.0	0.0	0.0	0.0	53.5	30.0	16.5
Biochemists and biophysicists <sup>(1)</sup>	19-1021	0.0	0.0	0.0	0.0	47.5	31.4	21.0
Microbiologists <sup>(1)</sup>	19-1022	0.0	0.0	0.0	0.0	47.5	31.4	21.0

Zoologists and wildlife biologists <sup>(1)</sup>	19-1023	0.0	0.0	0.0	0.0	47.5	31.4	21.0
Biological scientists, all other <sup>(1)</sup>	19-1029	0.0	0.0	0.0	0.0	47.5	31.4	21.0
Conservation scientists <sup>(1)</sup>	19-1031	0.0	0.0	0.0	0.0	76.5	18.8	4.7
Foresters <sup>(1)</sup>	19-1032	0.0	0.0	0.0	0.0	76.5	18.8	4.7
Epidemiologists <sup>(1)</sup>	19-1041	0.3	0.6	0.3	0.6	21.7	23.1	53.5
Medical scientists, except epidemiologists <sup>(1)</sup>	19-1042	0.3	0.6	0.3	0.6	21.7	23.1	53.5
Life scientists, all other <sup>(1)</sup>	19-1099	0.3	0.6	0.3	0.6	21.7	23.1	53.5
Astronomers <sup>(1)</sup>	19-2011	0.0	0.0	0.0	0.0	18.1	27.7	54.1
Physicists <sup>(1)</sup>	19-2012	0.0	0.0	0.0	0.0	18.1	27.7	54.1
Atmospheric and space scientists	19-2021	0.0	1.9	4.4	2.7	45.0	27.5	18.5
Chemists <sup>(1)</sup>	19-2031	0.5	2.0	2.7	1.2	53.0	21.7	18.8
Materials scientists <sup>(1)</sup>	19-2032	0.5	2.0	2.7	1.2	53.0	21.7	18.8
health <sup>(1)</sup>	19-2041	0.0	0.0	0.0	0.0	52.4	36.3	11.3
geographers <sup>(1)</sup>	19-2042	0.0	0.0	0.0	0.0	52.4	36.3	11.3
Hydrologists <sup>(1)</sup>	19-2043	0.0	0.0	0.0	0.0	52.4	36.3	11.3
Physical scientists, all other	19-2099	0.0	0.0	0.0	0.0	27.1	23.3	49.6
Economists	19-3011	0.0	0.0	0.0	0.0	23.2	44.8	32.0
Survey researchers <sup>(1)</sup>	19-3022	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Clinical, counseling, and school psychologists <sup>(1)</sup>	19-3031	0.0	0.0	0.0	0.0	6.8	42.7	50.5
Industrial-organizational psychologists <sup>(1)</sup>	19-3032	0.0	0.0	0.0	0.0	6.8	42.7	50.5
Psychologists, all other <sup>(1)</sup>	19-3039	0.0	0.0	0.0	0.0	6.8	42.7	50.5
Sociologists <sup>(1)</sup>	19-3041	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Urban and regional planners	19-3051	1.4	1.0	6.4	1.5	36.8	48.2	4.7
Anthropologists and archeologists <sup>(1)</sup>	19-3091	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Geographers <sup>(1)</sup>	19-3092	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Historians <sup>(1)</sup>	19-3093	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Political scientists <sup>(1)</sup>	19-3094	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Social scientists and related workers, all other <sup>(1)</sup>	19-3099	0.0	3.0	5.5	2.4	35.6	38.7	14.9
Agricultural and food science technicians	19-4011	8.3	22.3	25.0	13.7	24.8	4.1	1.8
Biological technicians	19-4021	5.7	14.1	18.9	16.4	31.1	8.7	5.1
Chemical technicians	19-4031	2.9	22.1	25.8	14.7	25.6	5.2	3.7
Geological and petroleum technicians <sup>(1)</sup>	19-4041	3.4	22.4	21.9	16.8	26.0	6.4	3.0
Nuclear technicians <sup>(1)</sup>	19-4051	3.4	22.4	21.9	16.8	26.0	6.4	3.0
Social science research assistants <sup>(1)</sup>	19-4061	3.2	15.0	21.0	13.5	32.3	11.5	3.5
including health <sup>(1)</sup>	19-4091	3.2	15.0	21.0	13.5	32.3	11.5	3.5
Forensic science technicians <sup>(1)</sup>	19-4092	3.2	15.0	21.0	13.5	32.3	11.5	3.5
Forest and conservation technicians <sup>(1)</sup>	19-4093	3.2	15.0	21.0	13.5	32.3	11.5	3.5
other <sup>(1)</sup>	19-4099	3.2	15.0	21.0	13.5	32.3	11.5	3.5
counselors <sup>(1)</sup>	21-1011	1.1	5.1	8.3	5.0	25.1	50.4	5.0
counselors <sup>(1)</sup>	21-1012	1.1	5.1	8.3	5.0	25.1	50.4	5.0
Marriage and family therapists <sup>(1)</sup>	21-1013	1.1	5.1	8.3	5.0	25.1	50.4	5.0

Mental health counselors <sup>(1)</sup>	21-1014	1.1	5.1	8.3	5.0	25.1	50.4	5.0
Rehabilitation counselors <sup>(1)</sup>	21-1015	1.1	5.1	8.3	5.0	25.1	50.4	5.0
Counselors, all other <sup>(1)</sup>	21-1019	1.1	5.1	8.3	5.0	25.1	50.4	5.0
Child, family, and school social workers <sup>(1)</sup>	21-1021	1.1	5.8	9.4	6.0	40.8	35.1	1.8
Healthcare social workers <sup>(1)</sup>	21-1022	1.1	5.8	9.4	6.0	40.8	35.1	1.8
Mental health and substance abuse social workers <sup>(1)</sup>	21-1023	1.1	5.8	9.4	6.0	40.8	35.1	1.8
Social workers, all other <sup>(1)</sup>	21-1029	1.1	5.8	9.4	6.0	40.8	35.1	1.8
Health educators <sup>(1)</sup>	21-1091	2.9	12.7	20.9	7.9	33.3	19.6	2.7
specialists	21-1092	0.7	5.7	11.7	5.0	57.6	18.1	1.1
Social and human service assistants	21-1093	2.6	15.3	25.0	10.6	31.8	13.0	1.7
Community health workers <sup>(1)</sup>	21-1094	2.9	12.7	20.9	7.9	33.3	19.6	2.7
Community and social service specialists, all other <sup>(1)</sup>	21-1099	2.9	12.7	20.9	7.9	33.3	19.6	2.7
Clergy	21-2011	2.7	6.6	11.3	4.3	25.3	35.1	14.7
Directors, religious activities and education	21-2021	1.0	9.7	15.4	6.5	36.2	25.6	5.7
Religious workers, all other	21-2099	1.9	11.3	19.7	7.4	34.7	19.4	5.6
Lawyers <sup>(1)</sup>	23-1011	0.2	0.4	0.6	0.5	5.0	4.4	88.9
Judicial law clerks	23-1012	0.1	0.5	5.1	3.0	13.7	2.2	75.4
officers <sup>(1)</sup>	23-1021	0.2	0.4	0.6	0.5	5.0	4.4	88.9
Arbitrators, mediators, and conciliators <sup>(1)</sup>	23-1022	0.2	0.4	0.6	0.5	5.0	4.4	88.9
Judges, magistrate judges, and magistrates <sup>(1)</sup>	23-1023	0.2	0.4	0.6	0.5	5.0	4.4	88.9
Paralegals and legal assistants	23-2011	1.0	10.6	24.1	20.0	34.9	6.2	3.2
Court reporters <sup>(1)</sup>	23-2091	1.6	16.9	25.9	13.5	29.5	7.8	4.8
Title examiners, abstractors, and searchers <sup>(1)</sup>	23-2093	1.6	16.9	25.9	13.5	29.5	7.8	4.8
Legal support workers, all other <sup>(1)</sup>	23-2099	1.6	16.9	25.9	13.5	29.5	7.8	4.8
Business teachers, postsecondary <sup>(1)</sup>	25-1011	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Computer science teachers, postsecondary <sup>(1)</sup>	25-1021	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Mathematical science teachers, postsecondary <sup>(1)</sup>	25-1022	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Architecture teachers, postsecondary <sup>(1)</sup>	25-1031	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Engineering teachers, postsecondary <sup>(1)</sup>	25-1032	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Agricultural sciences teachers, postsecondary <sup>(1)</sup>	25-1041	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Biological science teachers, postsecondary <sup>(1)</sup>	25-1042	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1043	0.5	1.3	2.5	2.2	16.6	33.2	43.8
teachers, postsecondary <sup>(1)</sup>	25-1051	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Chemistry teachers, postsecondary <sup>(1)</sup>	25-1052	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Environmental science teachers, postsecondary <sup>(1)</sup>	25-1053	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Physics teachers, postsecondary <sup>(1)</sup>	25-1054	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1061	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1062	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Economics teachers, postsecondary <sup>(1)</sup>	25-1063	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Geography teachers, postsecondary <sup>(1)</sup>	25-1064	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Political science teachers, postsecondary <sup>(1)</sup>	25-1065	0.5	1.3	2.5	2.2	16.6	33.2	43.8

Psychology teachers, postsecondary <sup>(1)</sup>	25-1066	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Sociology teachers, postsecondary <sup>(1)</sup>	25-1067	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Social sciences teachers, postsecondary, all other <sup>(1)</sup>	25-1069	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Health specialties teachers, postsecondary <sup>(1)</sup>	25-1071	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Nursing instructors and teachers, postsecondary <sup>(1)</sup>	25-1072	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Education teachers, postsecondary <sup>(1)</sup>	25-1081	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Library science teachers, postsecondary <sup>(1)</sup>	25-1082	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1111	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Law teachers, postsecondary <sup>(1)</sup>	25-1112	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Social work teachers, postsecondary <sup>(1)</sup>	25-1113	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Art, drama, and music teachers, postsecondary <sup>(1)</sup>	25-1121	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Communications teachers, postsecondary <sup>(1)</sup>	25-1122	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1123	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1124	0.5	1.3	2.5	2.2	16.6	33.2	43.8
History teachers, postsecondary <sup>(1)</sup>	25-1125	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Philosophy and religion teachers, postsecondary <sup>(1)</sup>	25-1126	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Graduate teaching assistants <sup>(1)</sup>	25-1191	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Home economics teachers, postsecondary <sup>(1)</sup>	25-1192	0.5	1.3	2.5	2.2	16.6	33.2	43.8
postsecondary <sup>(1)</sup>	25-1193	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Vocational education teachers, postsecondary <sup>(1)</sup>	25-1194	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Postsecondary teachers, all other <sup>(1)</sup>	25-1199	0.5	1.3	2.5	2.2	16.6	33.2	43.8
Preschool teachers, except special education <sup>(1)</sup>	25-2011	1.7	12.4	23.1	15.7	33.8	12.4	0.9
Kindergarten teachers, except special education <sup>(1)</sup>	25-2012	1.7	12.4	23.1	15.7	33.8	12.4	0.9
education <sup>(1)</sup>	25-2021	0.0	0.0	3.0	2.1	44.0	46.9	4.1
career/technical education <sup>(1)</sup>	25-2022	0.0	0.0	3.0	2.1	44.0	46.9	4.1
school <sup>(1)</sup>	25-2023	0.0	0.0	3.0	2.1	44.0	46.9	4.1
career/technical education <sup>(1)</sup>	25-2031	0.0	0.0	3.0	1.5	41.8	49.1	4.6
school <sup>(1)</sup>	25-2032	0.0	0.0	3.0	1.5	41.8	49.1	4.6
Special education teachers, preschool <sup>(1)</sup>	25-2051	0.5	3.4	7.1	4.2	35.1	46.6	3.0
elementary school <sup>(1)</sup>	25-2052	0.5	3.4	7.1	4.2	35.1	46.6	3.0
Special education teachers, middle school <sup>(1)</sup>	25-2053	0.5	3.4	7.1	4.2	35.1	46.6	3.0
Special education teachers, secondary school <sup>(1)</sup>	25-2054	0.5	3.4	7.1	4.2	35.1	46.6	3.0
Special education teachers, all other <sup>(1)</sup>	25-2059	0.5	3.4	7.1	4.2	35.1	46.6	3.0
teachers and instructors <sup>(1)</sup>	25-3011	1.8	10.2	18.4	8.5	35.9	20.5	4.7
Self-enrichment education teachers <sup>(1)</sup>	25-3021	1.8	10.2	18.4	8.5	35.9	20.5	4.7
Teachers and instructors, all other <sup>(1)</sup>	25-3099	1.8	10.2	18.4	8.5	35.9	20.5	4.7
Archivists <sup>(1)</sup>	25-4011	0.6	5.5	8.5	3.7	30.8	42.7	8.3
Curators <sup>(1)</sup>	25-4012	0.6	5.5	8.5	3.7	30.8	42.7	8.3
Museum technicians and conservators <sup>(1)</sup>	25-4013	0.6	5.5	8.5	3.7	30.8	42.7	8.3
Librarians	25-4021	0.2	1.9	8.4	4.5	23.3	56.8	4.9
Library technicians	25-4031	3.1	31.6	17.8	9.8	24.3	12.2	1.2

Audio-visual and multimedia collections specialists <sup>(1)</sup>	25-9011	0.4	5.0	7.2	4.7	30.3	42.9	9.5
Farm and home management advisors <sup>(1)</sup>	25-9021	0.4	5.0	7.2	4.7	30.3	42.9	9.5
Instructional coordinators <sup>(1)</sup>	25-9031	0.4	5.0	7.2	4.7	30.3	42.9	9.5
Teacher assistants	25-9041	4.3	29.3	26.2	14.5	21.1	4.2	0.6
Education, training, and library workers, all other <sup>(1)</sup>	25-9099	0.4	5.0	7.2	4.7	30.3	42.9	9.5
Art directors <sup>(1)</sup>	27-1011	2.5	11.3	18.7	8.4	46.4	11.3	1.4
Craft artists <sup>(1)</sup>	27-1012	2.5	11.3	18.7	8.4	46.4	11.3	1.4
illustrators <sup>(1)</sup>	27-1013	2.5	11.3	18.7	8.4	46.4	11.3	1.4
Multimedia artists and animators <sup>(1)</sup>	27-1014	2.5	11.3	18.7	8.4	46.4	11.3	1.4
Artists and related workers, all other <sup>(1)</sup>	27-1019	2.5	11.3	18.7	8.4	46.4	11.3	1.4
Commercial and industrial designers <sup>(1)</sup>	27-1021	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Fashion designers <sup>(1)</sup>	27-1022	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Floral designers <sup>(1)</sup>	27-1023	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Graphic designers <sup>(1)</sup>	27-1024	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Interior designers <sup>(1)</sup>	27-1025	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Merchandise displayers and window trimmers <sup>(1)</sup>	27-1026	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Set and exhibit designers <sup>(1)</sup>	27-1027	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Designers, all other <sup>(1)</sup>	27-1029	2.3	9.5	16.7	12.5	48.2	9.3	1.5
Actors	27-2011	2.0	7.6	20.6	8.9	47.7	11.6	1.6
Producers and directors	27-2012	0.8	5.1	13.2	5.2	59.2	13.9	2.5
Athletes and sports competitors <sup>(1)</sup>	27-2021	1.5	10.5	18.6	7.0	41.2	19.1	2.1
Coaches and scouts <sup>(1)</sup>	27-2022	1.5	10.5	18.6	7.0	41.2	19.1	2.1
Umpires, referees, and other sports officials <sup>(1)</sup>	27-2023	1.5	10.5	18.6	7.0	41.2	19.1	2.1
Dancers <sup>(1)</sup>	27-2031	8.7	25.4	23.4	7.7	28.1	5.5	1.2
Choreographers <sup>(1)</sup>	27-2032	8.7	25.4	23.4	7.7	28.1	5.5	1.2
Music directors and composers <sup>(1)</sup>	27-2041	3.5	13.8	20.4	4.9	32.8	19.5	5.1
Musicians and singers <sup>(1)</sup>	27-2042	3.5	13.8	20.4	4.9	32.8	19.5	5.1
workers, all other	27-2099	8.5	15.6	29.6	6.3	31.4	7.1	1.5
Radio and television announcers <sup>(1)</sup>	27-3011	3.9	18.9	25.7	8.7	36.1	5.3	1.5
Public address system and other announcers <sup>(1)</sup>	27-3012	3.9	18.9	25.7	8.7	36.1	5.3	1.5
Broadcast news analysts <sup>(1)</sup>	27-3021	0.7	2.3	8.5	3.9	61.4	20.8	2.4
Reporters and correspondents <sup>(1)</sup>	27-3022	0.7	2.3	8.5	3.9	61.4	20.8	2.4
Public relations specialists	27-3031	0.8	3.4	8.8	4.0	57.2	21.9	3.9
Editors	27-3041	0.6	3.3	10.0	3.5	55.9	21.2	5.6
Technical writers	27-3042	0.4	5.3	9.8	6.3	48.9	21.8	7.5
Writers and authors	27-3043	0.8	3.1	9.6	3.7	50.5	24.1	8.2
Interpreters and translators <sup>(1)</sup>	27-3091	2.7	12.2	18.7	13.5	32.6	15.6	4.7
Media and communication workers, all other <sup>(1)</sup>	27-3099	2.7	12.2	18.7	13.5	32.6	15.6	4.7
Audio and video equipment technicians <sup>(1)</sup>	27-4011	1.3	17.9	29.4	16.7	30.4	3.7	0.5
Broadcast technicians <sup>(1)</sup>	27-4012	1.3	17.9	29.4	16.7	30.4	3.7	0.5
Radio operators <sup>(1)</sup>	27-4013	1.3	17.9	29.4	16.7	30.4	3.7	0.5
Sound engineering technicians <sup>(1)</sup>	27-4014	1.3	17.9	29.4	16.7	30.4	3.7	0.5

Photographers	27-4021	2.2	12.0	24.1	10.5	42.1	8.0	1.1
picture <sup>(1)</sup>	27-4031	1.4	5.6	17.1	10.8	54.1	10.1	1.0
Film and video editors <sup>(1)</sup>	27-4032	1.4	5.6	17.1	10.8	54.1	10.1	1.0
other <sup>(1)</sup>	27-4099	1.3	17.9	29.4	16.7	30.4	3.7	0.5
Chiropractors	29-1011	0.4	0.4	0.2	0.7	5.0	2.5	90.7
Dentists, general <sup>(1)</sup>	29-1021	0.0	0.0	0.0	0.0	0.0	2.4	97.6
Oral and maxillofacial surgeons <sup>(1)</sup>	29-1022	0.0	0.0	0.0	0.0	0.0	2.4	97.6
Orthodontists <sup>(1)</sup>	29-1023	0.0	0.0	0.0	0.0	0.0	2.4	97.6
Prosthodontists <sup>(1)</sup>	29-1024	0.0	0.0	0.0	0.0	0.0	2.4	97.6
Dentists, all other specialists <sup>(1)</sup>	29-1029	0.0	0.0	0.0	0.0	0.0	2.4	97.6
Dietitians and nutritionists	29-1031	2.5	12.2	9.9	4.0	37.5	27.3	6.6
Optometrists	29-1041	0.0	0.0	0.0	0.0	0.0	1.9	98.1
Pharmacists	29-1051	0.0	0.0	1.2	1.2	33.8	6.4	57.4
Anesthesiologists <sup>(1)</sup>	29-1061	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Family and general practitioners <sup>(1)</sup>	29-1062	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Internists, general <sup>(1)</sup>	29-1063	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Obstetricians and gynecologists <sup>(1)</sup>	29-1064	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Pediatricians, general <sup>(1)</sup>	29-1065	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Psychiatrists <sup>(1)</sup>	29-1066	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Surgeons <sup>(1)</sup>	29-1067	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Physicians and surgeons, all other <sup>(1)</sup>	29-1069	0.2	0.3	0.0	0.0	1.7	0.7	97.1
Physician assistants	29-1071	0.4	0.6	2.2	4.5	16.5	58.6	17.2
Podiatrists	29-1081	0.0	0.0	0.0	0.0	0.0	1.7	98.3
Occupational therapists	29-1122	0.3	1.2	1.4	6.0	39.1	46.1	5.9
Physical therapists	29-1123	0.4	0.8	1.2	4.1	31.1	24.9	37.5
Radiation therapists	29-1124	0.0	2.7	8.9	31.7	45.9	8.2	2.6
Recreational therapists	29-1125	0.8	5.7	6.8	7.2	65.3	12.3	1.7
Respiratory therapists	29-1126	0.3	1.2	12.7	54.4	27.6	2.8	1.0
Speech-language pathologists	29-1127	0.3	1.1	0.6	0.9	10.3	83.5	3.4
Exercise physiologists <sup>(1)</sup>	29-1128	0.8	2.4	4.8	6.9	26.6	52.0	6.4
Therapists, all other <sup>(1)</sup>	29-1129	0.8	2.4	4.8	6.9	26.6	52.0	6.4
Veterinarians	29-1131	0.0	0.0	0.0	0.0	0.0	2.5	97.5
Registered nurses	29-1141	0.3	1.0	5.0	33.0	49.6	9.2	1.8
Nurse anesthetists	29-1151	0.2	1.1	0.4	0.3	12.3	72.9	12.7
Nurse midwives <sup>(1)</sup>	29-1161	0.1	0.3	0.3	0.2	6.4	78.6	14.1
Nurse practitioners <sup>(1)</sup>	29-1171	0.1	0.3	0.3	0.2	6.4	78.6	14.1
Audiologists	29-1181	0.0	0.9	3.1	2.3	7.9	22.5	63.5
other	29-1199	1.4	2.8	6.7	2.7	18.1	40.1	28.2
Medical and clinical laboratory technologists <sup>(1)</sup>	29-2011	1.4	10.5	20.0	19.3	39.0	7.1	2.8
Medical and clinical laboratory technicians <sup>(1)</sup>	29-2012	1.4	10.5	20.0	19.3	39.0	7.1	2.8
Dental hygienists	29-2021	0.4	2.2	8.1	51.5	32.8	2.4	2.5
Cardiovascular technologists and technicians <sup>(1)</sup>	29-2031	1.3	6.1	17.1	43.2	26.7	4.0	1.6
Diagnostic medical sonographers <sup>(1)</sup>	29-2032	1.3	6.1	17.1	43.2	26.7	4.0	1.6



Nuclear medicine technologists <sup>(1)</sup>	29-2033	1.3	6.1	17.1	43.2	26.7	4.0	1.6
Radiologic technologists <sup>(1)</sup>	29-2034	1.3	6.1	17.1	43.2	26.7	4.0	1.6
Magnetic resonance imaging technologists <sup>(1)</sup>	29-2035	1.3	6.1	17.1	43.2	26.7	4.0	1.6
Emergency medical technicians and paramedics	29-2041	0.8	12.2	44.4	22.2	17.4	2.5	0.5
Dietetic technicians <sup>(1)</sup>	29-2051	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Pharmacy technicians <sup>(1)</sup>	29-2052	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Psychiatric technicians <sup>(1)</sup>	29-2053	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Respiratory therapy technicians <sup>(1)</sup>	29-2054	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Surgical technologists <sup>(1)</sup>	29-2055	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Veterinary technologists and technicians <sup>(1)</sup>	29-2056	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Ophthalmic medical technicians <sup>(1)</sup>	29-2057	1.8	20.1	34.7	21.6	18.2	2.5	1.1
Licensed practical and licensed vocational nurses	29-2061	1.7	22.6	53.7	16.9	4.1	0.6	0.3
Medical records and health information technicians	29-2071	1.8	19.7	32.1	23.5	18.1	3.7	1.2
Opticians, dispensing	29-2081	2.9	24.5	32.5	18.6	18.2	1.8	1.5
Orthotists and prosthetists <sup>(1)</sup>	29-2091	2.5	17.1	31.9	17.1	22.3	6.4	2.7
Hearing aid specialists <sup>(1)</sup>	29-2092	2.5	17.1	31.9	17.1	22.3	6.4	2.7
Health technologists and technicians, all other <sup>(1)</sup>	29-2099	2.5	17.1	31.9	17.1	22.3	6.4	2.7
Occupational health and safety specialists <sup>(1)</sup>	29-9011	1.9	11.4	14.2	7.8	36.8	25.0	2.8
Occupational health and safety technicians <sup>(1)</sup>	29-9012	1.9	11.4	14.2	7.8	36.8	25.0	2.8
Athletic trainers <sup>(1)</sup>	29-9091	1.9	11.4	14.2	7.8	36.8	25.0	2.8
Genetic counselors <sup>(1)</sup>	29-9092	1.9	11.4	14.2	7.8	36.8	25.0	2.8
other <sup>(1)</sup>	29-9099	1.9	11.4	14.2	7.8	36.8	25.0	2.8
Home health aides <sup>(1)</sup>	31-1011	13.1	35.7	31.6	10.1	7.4	1.4	0.8
Psychiatric aides <sup>(1)</sup>	31-1013	13.1	35.7	31.6	10.1	7.4	1.4	0.8
Nursing assistants <sup>(1)</sup>	31-1014	13.1	35.7	31.6	10.1	7.4	1.4	0.8
Orderlies <sup>(1)</sup>	31-1015	13.1	35.7	31.6	10.1	7.4	1.4	0.8
Occupational therapy assistants <sup>(1)</sup>	31-2011	0.0	0.7	6.1	75.7	15.4	1.3	0.8
Occupational therapy aides <sup>(1)</sup>	31-2012	0.0	0.7	6.1	75.7	15.4	1.3	0.8
Physical therapist assistants <sup>(1)</sup>	31-2021	1.5	6.1	13.4	51.8	23.5	2.4	1.4
Physical therapist aides <sup>(1)</sup>	31-2022	1.5	6.1	13.4	51.8	23.5	2.4	1.4
Massage therapists	31-9011	2.9	18.8	34.5	18.3	19.6	3.9	2.0
Dental assistants	31-9091	3.2	25.3	39.7	21.3	8.4	0.7	1.5
Medical assistants	31-9092	1.9	20.2	40.0	25.6	9.6	1.6	1.1
Medical equipment preparers <sup>(1)</sup>	31-9093	8.6	36.9	28.0	12.0	11.4	2.2	0.9
Medical transcriptionists	31-9094	0.3	22.6	38.9	20.0	15.5	2.4	0.4
Pharmacy aides	31-9095	4.7	26.8	34.5	11.3	17.0	2.0	3.9
caretakers	31-9096	6.5	20.7	27.7	14.6	27.6	2.2	0.7
Phlebotomists	31-9097	1.3	23.8	46.5	17.7	9.4	0.8	0.6
Healthcare support workers, all other <sup>(1)</sup>	31-9099	8.6	36.9	28.0	12.0	11.4	2.2	0.9
First-line supervisors of correctional officers	33-1011	0.6	26.3	32.4	15.9	19.7	4.6	0.4
First-line supervisors of police and detectives	33-1012	0.5	10.9	29.4	17.3	29.6	11.3	1.0
workers	33-1021	0.6	11.8	36.6	21.3	23.3	5.7	0.7
all other	33-1099	2.5	19.9	30.0	11.0	25.0	9.7	2.0

Firefighters	33-2011	1.1	14.9	38.0	23.1	19.9	2.6	0.4
Fire inspectors and investigators <sup>(1)</sup>	33-2021	1.5	22.7	30.7	20.9	20.0	3.7	0.5
Forest fire inspectors and prevention specialists <sup>(1)</sup>	33-2022	1.5	22.7	30.7	20.9	20.0	3.7	0.5
Bailiffs <sup>(1)</sup>	33-3011	1.5	30.1	36.1	14.6	15.3	2.0	0.3
Correctional officers and jailers <sup>(1)</sup>	33-3012	1.5	30.1	36.1	14.6	15.3	2.0	0.3
Detectives and criminal investigators	33-3021	0.8	7.1	25.3	11.5	40.9	12.3	2.2
Fish and game wardens <sup>(1)</sup>	33-3031	2.2	21.3	26.3	15.0	29.8	5.4	0.0
Parking enforcement workers <sup>(1)</sup>	33-3041	2.2	21.3	26.3	15.0	29.8	5.4	0.0
Police and sheriff's patrol officers <sup>(1)</sup>	33-3051	0.8	11.7	32.1	16.4	32.5	5.6	0.9
Transit and railroad police <sup>(1)</sup>	33-3052	0.8	11.7	32.1	16.4	32.5	5.6	0.9
Animal control workers	33-9011	1.9	28.7	43.3	10.0	13.4	2.5	0.2
Private detectives and investigators	33-9021	0.6	7.6	20.9	8.8	45.9	13.4	2.7
investigators <sup>(1)</sup>	33-9031	6.1	35.3	32.1	10.3	13.2	2.7	0.4
Security guards <sup>(1)</sup>	33-9032	6.1	35.3	32.1	10.3	13.2	2.7	0.4
Crossing guards	33-9091	15.3	44.7	23.8	8.0	6.2	1.5	0.4
protective service workers <sup>(1)</sup>	33-9092	3.0	18.2	26.7	11.7	33.2	6.4	0.7
Transportation security screeners	33-9093	4.0	23.2	34.1	11.5	21.4	5.4	0.4
Protective service workers, all other <sup>(1)</sup>	33-9099	3.0	18.2	26.7	11.7	33.2	6.4	0.7
Chefs and head cooks	35-1011	15.9	29.7	23.4	16.8	12.3	1.5	0.4
workers	35-1012	11.8	34.4	29.0	10.0	12.6	1.8	0.4
Cooks, fast food <sup>(1)</sup>	35-2011	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Cooks, institution and cafeteria <sup>(1)</sup>	35-2012	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Cooks, private household <sup>(1)</sup>	35-2013	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Cooks, restaurant <sup>(1)</sup>	35-2014	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Cooks, short order <sup>(1)</sup>	35-2015	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Cooks, all other <sup>(1)</sup>	35-2019	29.1	40.7	18.7	5.6	5.0	0.7	0.2
Food preparation workers	35-2021	26.0	37.3	20.8	6.4	7.8	1.3	0.3
Bartenders	35-3011	5.9	27.6	35.2	10.3	18.7	2.0	0.4
including fast food	35-3021	19.1	43.2	22.7	7.8	6.0	1.1	0.2
coffee shop	35-3022	22.0	38.1	23.6	6.6	8.3	1.0	0.3
Waiters and waitresses	35-3031	12.7	32.6	29.7	9.3	13.6	1.7	0.4
Food servers, nonrestaurant	35-3041	14.8	43.4	24.4	8.3	7.3	1.4	0.4
helpers <sup>(1)</sup>	35-9011	25.6	41.3	19.7	5.4	6.9	0.8	0.2
Dishwashers	35-9021	42.7	38.0	11.8	3.0	3.5	0.8	0.3
shop	35-9031	11.8	33.7	27.8	6.1	16.9	3.4	0.3
other <sup>(1)</sup>	35-9099	25.6	41.3	19.7	5.4	6.9	0.8	0.2
workers	37-1011	15.4	38.2	24.2	7.7	12.2	1.9	0.4
First-line supervisors of landscaping, lawn service, and groundskeeping workers	37-1012	18.7	27.2	23.5	10.3	18.1	1.9	0.3
housekeeping cleaners <sup>(1)</sup>	37-2011	25.1	44.2	19.0	5.8	4.9	0.9	0.2
Maids and housekeeping cleaners	37-2012	37.4	39.0	14.3	4.2	4.2	0.6	0.2
Building cleaning workers, all other <sup>(1)</sup>	37-2019	25.1	44.2	19.0	5.8	4.9	0.9	0.2
Pest control workers	37-2021	7.4	45.8	27.7	7.7	10.0	1.1	0.2

Landscaping and groundskeeping workers <sup>(1)</sup>	37-3011	37.8	35.8	14.8	4.4	6.2	1.0	0.1
vegetation <sup>(1)</sup>	37-3012	37.8	35.8	14.8	4.4	6.2	1.0	0.1
Tree trimmers and pruners <sup>(1)</sup>	37-3013	37.8	35.8	14.8	4.4	6.2	1.0	0.1
Grounds maintenance workers, all other <sup>(1)</sup>	37-3019	37.8	35.8	14.8	4.4	6.2	1.0	0.1
Gaming supervisors <sup>(1)</sup>	39-1011	6.3	30.9	35.4	10.0	14.6	2.5	0.4
Slot supervisors <sup>(1)</sup>	39-1012	6.3	30.9	35.4	10.0	14.6	2.5	0.4
First-line supervisors of personal service workers	39-1021	4.1	27.4	28.8	12.7	21.7	4.1	1.1
Animal trainers	39-2011	6.2	24.4	30.7	8.8	24.7	4.1	1.1
Nonfarm animal caretakers	39-2021	8.2	32.7	27.4	10.2	17.8	2.8	1.0
Gaming dealers <sup>(1)</sup>	39-3011	7.9	35.6	30.6	9.3	14.1	2.2	0.4
Gaming and sports book writers and runners <sup>(1)</sup>	39-3012	7.9	35.6	30.6	9.3	14.1	2.2	0.4
Gaming service workers, all other <sup>(1)</sup>	39-3019	7.9	35.6	30.6	9.3	14.1	2.2	0.4
Motion picture projectionists	39-3021	3.3	25.2	23.7	16.1	24.4	7.4	0.0
Ushers, lobby attendants, and ticket takers	39-3031	11.0	28.0	22.1	12.8	19.5	5.5	1.1
Amusement and recreation attendants <sup>(1)</sup>	39-3091	8.9	28.8	28.2	8.4	20.0	5.0	0.8
Costume attendants <sup>(1)</sup>	39-3092	8.9	28.8	28.2	8.4	20.0	5.0	0.8
attendants <sup>(1)</sup>	39-3093	8.9	28.8	28.2	8.4	20.0	5.0	0.8
other <sup>(1)</sup>	39-3099	8.9	28.8	28.2	8.4	20.0	5.0	0.8
Embalmers <sup>(1)</sup>	39-4011	3.5	31.5	22.8	17.1	20.1	4.5	0.6
Funeral attendants <sup>(1)</sup>	39-4021	3.5	31.5	22.8	17.1	20.1	4.5	0.6
Morticians, undertakers, and funeral directors	39-4031	1.6	9.1	18.6	33.9	27.6	5.0	4.1
Barbers	39-5011	11.3	47.2	28.7	8.1	4.3	0.4	0.0
Hairdressers, hairstylists, and cosmetologists	39-5012	6.7	44.3	31.8	10.5	5.7	0.6	0.3
Makeup artists, theatrical and performance <sup>(1)</sup>	39-5091	22.9	37.0	21.1	7.6	9.5	1.6	0.3
Manicurists and pedicurists <sup>(1)</sup>	39-5092	22.9	37.0	21.1	7.6	9.5	1.6	0.3
Shampooers <sup>(1)</sup>	39-5093	22.9	37.0	21.1	7.6	9.5	1.6	0.3
Skincare specialists <sup>(1)</sup>	39-5094	22.9	37.0	21.1	7.6	9.5	1.6	0.3
Baggage porters and bellhops <sup>(1)</sup>	39-6011	10.6	30.9	27.5	11.6	16.7	1.9	0.9
Concierges <sup>(1)</sup>	39-6012	10.6	30.9	27.5	11.6	16.7	1.9	0.9
Tour guides and escorts <sup>(1)</sup>	39-7011	4.4	16.4	25.3	7.6	31.6	11.8	2.9
Travel guides <sup>(1)</sup>	39-7012	4.4	16.4	25.3	7.6	31.6	11.8	2.9
Childcare workers	39-9011	12.8	31.5	26.2	10.7	15.5	2.9	0.4
Personal care aides	39-9021	16.4	34.2	27.6	8.7	10.2	2.3	0.6
Fitness trainers and aerobics instructors <sup>(1)</sup>	39-9031	2.4	14.8	24.0	10.1	37.5	9.9	1.4
Recreation workers <sup>(1)</sup>	39-9032	2.4	14.8	24.0	10.1	37.5	9.9	1.4
Residential advisors	39-9041	3.0	18.5	30.9	13.7	24.1	9.0	0.8
Personal care and service workers, all other	39-9099	9.2	30.0	28.3	8.0	19.2	4.6	0.7
First-line supervisors of retail sales workers	41-1011	5.6	29.5	28.6	10.0	21.5	3.8	1.0
First-line supervisors of non-retail sales workers	41-1012	4.6	21.4	22.4	8.2	31.7	10.0	1.7
Cashiers <sup>(1)</sup>	41-2011	14.9	40.9	25.4	7.5	9.3	1.7	0.3
Gaming change persons and booth cashiers <sup>(1)</sup>	41-2012	14.9	40.9	25.4	7.5	9.3	1.7	0.3
Counter and rental clerks	41-2021	11.7	38.5	23.6	8.0	15.3	2.4	0.4
Parts salespersons	41-2022	8.7	46.8	28.2	9.5	5.9	0.6	0.3

Retail salespersons	41-2031	6.8	29.2	28.2	10.3	21.2	3.8	0.7
Advertising sales agents	41-3011	1.6	10.3	19.3	8.1	50.8	8.7	1.2
Insurance sales agents	41-3021	1.5	14.9	26.5	9.7	38.9	7.0	1.5
agents	41-3031	1.0	7.2	15.1	5.5	52.0	16.2	3.2
Travel agents	41-3041	2.1	18.8	29.1	14.7	28.0	6.4	0.8
Sales representatives, services, all other	41-3099	2.1	14.0	24.2	8.0	42.4	8.5	0.8
Sales representatives, wholesale and manufacturing, technical and scientific products <sup>(1)</sup>	41-4011	3.0	17.3	22.5	8.5	40.6	7.3	0.8
manufacturing, except technical and scientific products <sup>(1)</sup>	41-4012	3.0	17.3	22.5	8.5	40.6	7.3	0.8
Demonstrators and product promoters <sup>(1)</sup>	41-9011	7.6	31.1	29.9	8.2	17.7	4.4	1.0
Models <sup>(1)</sup>	41-9012	7.6	31.1	29.9	8.2	17.7	4.4	1.0
Real estate brokers <sup>(1)</sup>	41-9021	1.4	12.3	26.4	10.2	38.1	9.7	2.1
Real estate sales agents <sup>(1)</sup>	41-9022	1.4	12.3	26.4	10.2	38.1	9.7	2.1
Sales engineers	41-9031	0.0	4.8	14.8	9.1	57.2	13.0	1.1
Telemarketers	41-9041	6.0	30.2	33.4	10.8	16.6	2.9	0.2
vendors, and related workers	41-9091	13.0	31.1	21.6	10.0	19.3	4.1	0.9
Sales and related workers, all other	41-9099	4.1	18.8	22.1	8.7	36.8	8.2	1.2
support workers	43-1011	2.8	22.1	28.0	11.6	26.1	8.0	1.5
Switchboard operators, including answering service	43-2011	5.2	36.4	34.3	9.7	12.3	1.5	0.5
Telephone operators	43-2021	4.8	29.9	39.4	12.0	10.0	2.8	1.2
Communications equipment operators, all other	43-2099	1.7	21.6	25.5	11.5	29.7	9.3	0.6
Bill and account collectors	43-3011	4.2	29.9	33.5	13.4	16.0	2.6	0.5
Billing and posting clerks	43-3021	2.7	29.1	33.7	15.1	15.7	3.0	0.5
Bookkeeping, accounting, and auditing clerks	43-3031	3.5	27.9	37.9	10.9	16.4	3.0	0.4
Gaming cage workers	43-3041	4.0	45.6	34.9	2.8	12.7	0.0	0.0
Payroll and timekeeping clerks	43-3051	1.9	27.1	34.8	13.9	18.9	3.2	0.3
Procurement clerks	43-3061	2.0	21.1	25.9	8.9	29.3	12.1	0.6
Tellers	43-3071	2.1	35.3	33.6	12.1	15.0	1.7	0.3
Financial clerks, all other	43-3099	1.2	14.9	22.4	9.6	35.1	15.1	1.6
Brokerage clerks	43-4011	2.3	17.8	28.1	7.0	35.3	7.5	2.1
Correspondence clerks <sup>(1)</sup>	43-4021	9.7	32.6	27.0	10.1	17.6	2.5	0.6
Court, municipal, and license clerks	43-4031	1.9	26.4	30.2	14.7	21.1	3.6	2.1
Credit authorizers, checkers, and clerks	43-4041	1.1	25.7	29.5	14.3	23.1	6.1	0.3
Customer service representatives	43-4051	4.0	26.4	31.5	11.7	21.8	4.0	0.6
Eligibility interviewers, government programs	43-4061	1.1	11.8	26.4	13.6	37.7	8.4	1.1
File clerks	43-4071	3.8	29.7	30.8	12.7	18.2	4.0	0.8
Hotel, motel, and resort desk clerks	43-4081	6.4	30.1	30.9	11.6	18.2	2.3	0.4
Interviewers, except eligibility and loan	43-4111	2.4	21.0	32.0	14.2	22.4	6.6	1.3
Library assistants, clerical	43-4121	1.1	19.1	24.1	10.7	33.5	10.5	1.0
Loan interviewers and clerks	43-4131	1.6	23.4	37.2	11.0	23.9	2.6	0.4
New accounts clerks	43-4141	1.3	18.7	37.2	10.9	29.2	2.3	0.4
Order clerks <sup>(1)</sup>	43-4151	9.7	32.6	27.0	10.1	17.6	2.5	0.6
timekeeping	43-4161	2.1	21.4	34.6	11.4	22.2	7.8	0.5
Receptionists and information clerks	43-4171	4.1	32.8	34.1	12.6	13.6	2.5	0.3
travel clerks	43-4181	2.1	24.5	33.4	11.1	25.1	3.2	0.6

Information and record clerks, all other	43-4199	2.0	18.9	29.6	14.6	25.3	8.3	1.4
Cargo and freight agents	43-5011	5.3	25.2	37.3	11.0	17.8	3.2	0.2
Couriers and messengers	43-5021	8.4	36.1	30.7	8.8	13.8	1.9	0.3
Police, fire, and ambulance dispatchers <sup>(1)</sup>	43-5031	4.5	32.0	35.0	11.8	14.5	2.0	0.2
Dispatchers, except police, fire, and ambulance <sup>(1)</sup>	43-5032	4.5	32.0	35.0	11.8	14.5	2.0	0.2
Meter readers, utilities	43-5041	2.3	40.6	35.6	10.5	9.9	1.2	0.0
Postal service clerks	43-5051	3.4	31.0	38.3	11.5	13.7	1.8	0.1
Postal service mail carriers	43-5052	2.9	34.4	35.9	12.2	12.7	1.5	0.4
processing machine operators	43-5053	4.8	30.0	35.3	11.2	16.2	2.2	0.2
Production, planning, and expediting clerks	43-5061	2.5	22.0	27.9	13.0	25.6	8.4	0.6
Shipping, receiving, and traffic clerks	43-5071	12.0	44.9	25.3	8.5	7.9	1.2	0.3
Stock clerks and order fillers	43-5081	13.4	42.7	25.6	7.5	9.1	1.4	0.3
recordkeeping assistants <sup>(1)</sup>	43-5111	12.2	37.3	25.1	8.8	13.0	3.2	0.4
Legal secretaries <sup>(1)</sup>	43-6011	2.3	27.4	32.3	14.7	19.3	3.5	0.6
Medical secretaries <sup>(1)</sup>	43-6012	2.3	27.4	32.3	14.7	19.3	3.5	0.6
Secretaries and administrative assistants, except legal, medical, and executive <sup>(1)</sup>	43-6013	2.3	27.4	32.3	14.7	19.3	3.5	0.6
Computer operators	43-6014	2.3	27.4	32.3	14.7	19.3	3.5	0.6
Data entry keyers	43-9011	2.6	22.6	29.6	12.7	25.3	6.4	0.9
Word processors and typists	43-9021	2.7	26.2	32.9	13.6	20.3	3.9	0.4
Desktop publishers <sup>(1)</sup>	43-9022	2.8	28.0	32.1	14.3	18.2	3.8	0.7
Insurance claims and policy processing clerks	43-9031	2.1	18.5	28.4	13.1	28.5	8.2	1.2
postal service office clerks, general	43-9041	1.7	23.8	33.7	12.0	24.3	3.8	0.7
Office clerks, general	43-9051	8.7	41.2	28.6	8.6	11.3	1.6	0.1
Office machine operators, except computer	43-9061	3.4	28.8	31.6	13.1	18.7	3.4	0.8
Proofreaders and copy markers	43-9071	8.5	38.3	26.2	10.5	13.6	2.8	0.1
Statistical assistants	43-9081	1.2	7.2	24.7	4.6	44.0	16.5	1.8
Office and administrative support workers, all other <sup>(1)</sup>	43-9111	4.9	27.3	26.6	10.9	21.2	7.9	1.2
workers	43-9199	2.1	18.5	28.4	13.1	28.5	8.2	1.2
Agricultural inspectors	45-1011	29.9	32.2	17.7	5.9	11.7	2.2	0.5
Animal breeders <sup>(1)</sup>	45-2011	9.4	18.3	20.2	13.6	32.1	4.6	1.8
Graders and sorters, agricultural products	45-2021	55.6	25.7	9.4	3.3	5.1	0.8	0.2
Agricultural equipment operators <sup>(1)</sup>	45-2041	55.8	28.2	10.5	2.1	2.9	0.3	0.1
greenhouse <sup>(1)</sup>	45-2091	55.6	25.7	9.4	3.3	5.1	0.8	0.2
animals <sup>(1)</sup>	45-2092	55.6	25.7	9.4	3.3	5.1	0.8	0.2
Agricultural workers, all other <sup>(1)</sup>	45-2093	55.6	25.7	9.4	3.3	5.1	0.8	0.2
Fishers and hunting workers	45-2099	55.6	25.7	9.4	3.3	5.1	0.8	0.2
Forest and conservation workers	45-3000	24.2	46.9	15.5	4.1	8.2	1.2	0.1
Fallers <sup>(1)</sup>	45-4011	19.1	20.9	23.0	12.1	20.0	4.4	0.5
Logging equipment operators <sup>(1)</sup>	45-4021	31.6	48.0	11.9	3.7	3.3	1.5	0.0
Log graders and scalers <sup>(1)</sup>	45-4022	31.6	48.0	11.9	3.7	3.3	1.5	0.0
Logging workers, all other <sup>(1)</sup>	45-4023	31.6	48.0	11.9	3.7	3.3	1.5	0.0
extraction workers	45-4029	31.6	48.0	11.9	3.7	3.3	1.5	0.0
	47-1011	14.8	41.5	24.7	7.7	9.5	1.6	0.3

Boilermakers	47-2011	15.5	46.7	23.1	12.7	2.0	0.0	0.0
Brickmasons and blockmasons <sup>(1)</sup>	47-2021	35.6	43.4	14.6	3.1	2.5	0.6	0.3
Stonemasons <sup>(1)</sup>	47-2022	35.6	43.4	14.6	3.1	2.5	0.6	0.3
Carpenters	47-2031	25.9	42.6	19.6	5.3	5.6	0.8	0.2
Carpet installers <sup>(1)</sup>	47-2041	36.6	41.5	14.5	4.0	2.9	0.4	0.0
Floor layers, except carpet, wood, and hard tiles <sup>(1)</sup>	47-2042	36.6	41.5	14.5	4.0	2.9	0.4	0.0
Floor sanders and finishers <sup>(1)</sup>	47-2043	36.6	41.5	14.5	4.0	2.9	0.4	0.0
Tile and marble setters <sup>(1)</sup>	47-2044	36.6	41.5	14.5	4.0	2.9	0.4	0.0
Cement masons and concrete finishers <sup>(1)</sup>	47-2051	38.9	40.9	15.1	1.3	3.2	0.5	0.2
Terrazzo workers and finishers <sup>(1)</sup>	47-2053	38.9	40.9	15.1	1.3	3.2	0.5	0.2
Construction laborers	47-2061	34.5	39.6	16.1	4.1	4.8	0.7	0.2
Paving, surfacing, and tamping equipment operators	47-2071	37.1	47.5	11.9	2.1	0.9	0.0	0.6
Pile-driver operators <sup>(1)</sup>	47-2072	20.3	50.9	20.8	4.9	2.8	0.2	0.1
equipment operators <sup>(1)</sup>	47-2073	20.3	50.9	20.8	4.9	2.8	0.2	0.1
Drywall and ceiling tile installers <sup>(1)</sup>	47-2081	44.8	39.9	11.1	2.1	1.9	0.3	0.0
Tapers <sup>(1)</sup>	47-2082	44.8	39.9	11.1	2.1	1.9	0.3	0.0
Electricians	47-2111	7.7	37.3	32.1	15.2	6.7	0.9	0.2
Glaziers	47-2121	21.0	47.9	22.1	4.6	3.2	1.1	0.1
Insulation workers, floor, ceiling, and wall <sup>(1)</sup>	47-2131	29.0	45.7	15.7	7.3	1.9	0.3	0.1
Insulation workers, mechanical <sup>(1)</sup>	47-2132	29.0	45.7	15.7	7.3	1.9	0.3	0.1
Painters, construction and maintenance <sup>(1)</sup>	47-2141	35.0	39.2	15.6	4.2	4.8	0.9	0.2
Paperhangers <sup>(1)</sup>	47-2142	35.0	39.2	15.6	4.2	4.8	0.9	0.2
Pipelayers <sup>(1)</sup>	47-2151	16.5	46.5	24.6	7.3	4.4	0.5	0.2
Plumbers, pipefitters, and steamfitters <sup>(1)</sup>	47-2152	16.5	46.5	24.6	7.3	4.4	0.5	0.2
Plasterers and stucco masons	47-2161	46.3	39.4	10.1	1.7	2.3	0.1	0.1
Reinforcing iron and rebar workers <sup>(1)</sup>	47-2171	35.6	43.4	14.6	3.1	2.5	0.6	0.3
Roofers	47-2181	46.8	36.7	11.4	1.7	3.0	0.3	0.1
Sheet metal workers	47-2211	14.0	48.8	24.6	8.0	4.0	0.4	0.1
Structural iron and steel workers	47-2221	14.1	46.5	26.7	7.9	4.2	0.5	0.1
Solar photovoltaic installers <sup>(1)</sup>	47-2231	22.3	39.1	23.5	7.1	6.7	1.1	0.2
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters <sup>(1)</sup>	47-3011	29.7	43.8	17.1	4.4	5.0	0.1	0.0
Helpers--carpenters <sup>(1)</sup>	47-3012	29.7	43.8	17.1	4.4	5.0	0.1	0.0
Helpers--electricians <sup>(1)</sup>	47-3013	29.7	43.8	17.1	4.4	5.0	0.1	0.0
stucco masons <sup>(1)</sup>	47-3014	29.7	43.8	17.1	4.4	5.0	0.1	0.0
steamfitters <sup>(1)</sup>	47-3015	29.7	43.8	17.1	4.4	5.0	0.1	0.0
Helpers--roofers <sup>(1)</sup>	47-3016	29.7	43.8	17.1	4.4	5.0	0.1	0.0
Helpers, construction trades, all other <sup>(1)</sup>	47-3019	29.7	43.8	17.1	4.4	5.0	0.1	0.0
Construction and building inspectors	47-4011	1.6	24.4	31.3	14.6	21.6	5.8	0.9
Elevator installers and repairers	47-4021	3.8	48.2	31.4	10.9	4.8	0.6	0.3
Fence erectors	47-4031	45.0	33.1	15.7	2.9	2.5	0.5	0.4
Hazardous materials removal workers	47-4041	18.5	36.9	20.5	9.7	11.2	2.9	0.3
Highway maintenance workers	47-4051	12.1	56.8	21.3	6.2	3.2	0.4	0.0

operators	47-4061	10.6	53.6	27.1	5.0	3.7	0.0	0.0
Septic tank servicers and sewer pipe cleaners <sup>(1)</sup>	47-4071	22.3	39.1	23.5	7.1	6.7	1.1	0.2
Segmental pavers <sup>(1)</sup>	47-4091	22.3	39.1	23.5	7.1	6.7	1.1	0.2
Construction and related workers, all other <sup>(1)</sup>	47-4099	22.3	39.1	23.5	7.1	6.7	1.1	0.2
Derrick operators, oil and gas <sup>(1)</sup>	47-5011	20.3	47.4	22.6	3.8	5.1	0.8	0.0
Rotary drill operators, oil and gas <sup>(1)</sup>	47-5012	20.3	47.4	22.6	3.8	5.1	0.8	0.0
Service unit operators, oil, gas, and mining <sup>(1)</sup>	47-5013	20.3	47.4	22.6	3.8	5.1	0.8	0.0
Earth drillers, except oil and gas	47-5021	18.6	50.8	20.2	4.4	5.4	0.6	0.0
blasters	47-5031	11.1	36.9	27.3	8.1	15.9	0.6	0.0
Continuous mining machine operators <sup>(1)</sup>	47-5041	14.8	51.9	24.1	4.4	4.1	0.7	0.0
Mine cutting and channeling machine operators <sup>(1)</sup>	47-5042	14.8	51.9	24.1	4.4	4.1	0.7	0.0
Mining machine operators, all other <sup>(1)</sup>	47-5049	14.8	51.9	24.1	4.4	4.1	0.7	0.0
Rock splitters, quarry <sup>(1)</sup>	47-5051	16.8	47.2	23.5	4.8	7.2	0.2	0.3
Roof bolters, mining <sup>(1)</sup>	47-5061	16.8	47.2	23.5	4.8	7.2	0.2	0.3
Roustabouts, oil and gas <sup>(1)</sup>	47-5071	20.3	47.4	22.6	3.8	5.1	0.8	0.0
Helpers--extraction workers <sup>(1)</sup>	47-5081	16.8	47.2	23.5	4.8	7.2	0.2	0.3
Extraction workers, all other <sup>(1)</sup>	47-5099	16.8	47.2	23.5	4.8	7.2	0.2	0.3
repairers	49-1011	7.8	34.2	30.4	13.4	11.7	2.2	0.3
repairers	49-2011	2.0	16.7	33.2	20.5	23.1	3.6	0.9
repairs <sup>(1)</sup>	49-2021	4.0	28.4	35.5	16.5	13.9	1.3	0.3
repairers, except line installers <sup>(1)</sup>	49-2022	4.0	28.4	35.5	16.5	13.9	1.3	0.3
Avionics technicians	49-2091	1.6	16.5	34.5	31.2	13.7	1.4	1.1
Electric motor, power tool, and related repairers	49-2092	7.5	38.0	29.7	16.3	7.1	1.3	0.1
transportation equipment <sup>(1)</sup>	49-2093	2.8	28.6	30.4	21.4	14.5	2.3	0.0
industrial equipment <sup>(1)</sup>	49-2094	2.8	28.6	30.4	21.4	14.5	2.3	0.0
substation, and relay <sup>(1)</sup>	49-2095	2.8	28.6	30.4	21.4	14.5	2.3	0.0
vehicles	49-2096	4.8	35.4	35.3	15.3	8.1	0.4	0.6
and repairers	49-2097	8.3	33.8	31.9	12.4	11.7	1.4	0.6
Security and fire alarm systems installers	49-2098	8.6	39.5	29.7	12.4	8.5	1.0	0.4
Aircraft mechanics and service technicians	49-3011	2.3	23.9	39.6	22.2	10.5	1.3	0.2
Automotive body and related repairers	49-3021	22.6	49.5	17.6	7.5	2.7	0.1	0.1
Automotive glass installers and repairers	49-3022	14.2	55.4	24.5	3.3	1.2	1.5	0.0
Automotive service technicians and mechanics	49-3023	17.3	44.7	22.2	11.6	3.6	0.4	0.2
specialists	49-3031	13.1	46.0	24.2	12.9	2.9	0.6	0.2
technicians <sup>(1)</sup>	49-3041	13.1	44.7	25.4	12.0	3.7	0.6	0.3
engines <sup>(1)</sup>	49-3042	13.1	44.7	25.4	12.0	3.7	0.6	0.3
Rail car repairers <sup>(1)</sup>	49-3043	13.1	44.7	25.4	12.0	3.7	0.6	0.3
Motorboat mechanics and service technicians <sup>(1)</sup>	49-3051	18.1	40.7	25.2	10.5	4.2	1.1	0.2
Motorcycle mechanics <sup>(1)</sup>	49-3052	18.1	40.7	25.2	10.5	4.2	1.1	0.2
mechanics <sup>(1)</sup>	49-3053	18.1	40.7	25.2	10.5	4.2	1.1	0.2
Bicycle repairers <sup>(1)</sup>	49-3091	24.9	43.0	20.3	5.4	5.4	0.8	0.1
Recreational vehicle service technicians <sup>(1)</sup>	49-3092	24.9	43.0	20.3	5.4	5.4	0.8	0.1
Tire repairers and changers <sup>(1)</sup>	49-3093	24.9	43.0	20.3	5.4	5.4	0.8	0.1

Mechanical door repairers <sup>(1)</sup>	49-9011	6.1	45.0	33.3	10.5	4.5	0.5	0.0
mechanical door <sup>(1)</sup>	49-9012	6.1	45.0	33.3	10.5	4.5	0.5	0.0
mechanics and installers	49-9021	10.7	40.9	28.4	13.8	5.1	0.8	0.3
Home appliance repairers	49-9031	11.9	38.4	31.3	11.8	5.3	1.0	0.2
Industrial machinery mechanics <sup>(1)</sup>	49-9041	10.4	41.8	28.0	13.4	5.6	0.7	0.1
Maintenance workers, machinery	49-9043	10.2	46.8	26.7	11.9	3.6	0.9	0.0
Millwrights	49-9044	9.7	44.3	31.2	11.4	3.0	0.5	0.0
Refractory materials repairers, except brickmasons <sup>(1)</sup>	49-9045	10.4	41.8	28.0	13.4	5.6	0.7	0.1
Electrical power-line installers and repairers	49-9051	5.7	39.4	32.2	15.7	6.0	0.9	0.1
Telecommunications line installers and repairers	49-9052	6.8	36.9	33.2	13.6	8.2	1.1	0.2
Camera and photographic equipment repairers <sup>(1)</sup>	49-9061	3.9	23.3	28.7	20.7	18.6	3.9	0.9
Medical equipment repairers <sup>(1)</sup>	49-9062	3.9	23.3	28.7	20.7	18.6	3.9	0.9
Musical instrument repairers and tuners <sup>(1)</sup>	49-9063	3.9	23.3	28.7	20.7	18.6	3.9	0.9
Watch repairers <sup>(1)</sup>	49-9064	3.9	23.3	28.7	20.7	18.6	3.9	0.9
other <sup>(1)</sup>	49-9069	3.9	23.3	28.7	20.7	18.6	3.9	0.9
Maintenance and repair workers, general	49-9071	13.3	41.5	26.8	11.1	6.3	0.8	0.2
Wind turbine service technicians <sup>(1)</sup>	49-9081	13.0	39.9	26.6	10.3	8.2	1.7	0.2
and repairers	49-9091	8.4	42.6	27.5	10.6	8.6	2.2	0.2
Commercial divers <sup>(1)</sup>	49-9092	13.0	39.9	26.6	10.3	8.2	1.7	0.2
Fabric menders, except garment <sup>(1)</sup>	49-9093	13.0	39.9	26.6	10.3	8.2	1.7	0.2
Locksmiths and safe repairers	49-9094	9.2	46.6	29.1	8.4	4.9	1.2	0.5
Manufactured building and mobile home installers <sup>(1)</sup>	49-9095	13.0	39.9	26.6	10.3	8.2	1.7	0.2
Riggers	49-9096	11.7	53.7	18.7	10.6	4.9	0.4	0.0
Signal and track switch repairers <sup>(1)</sup>	49-9097	13.0	39.9	26.6	10.3	8.2	1.7	0.2
workers	49-9098	30.0	39.7	14.5	7.5	7.0	1.3	0.0
other <sup>(1)</sup>	49-9099	13.0	39.9	26.6	10.3	8.2	1.7	0.2
workers	51-1011	10.2	37.9	26.1	8.7	13.3	3.1	0.7
assemblers	51-2011	13.6	46.2	28.2	6.6	5.5	0.0	0.0
Coil winders, tapers, and finishers <sup>(1)</sup>	51-2021	18.7	44.7	21.8	8.3	5.4	0.7	0.4
Electrical and electronic equipment assemblers <sup>(1)</sup>	51-2022	18.7	44.7	21.8	8.3	5.4	0.7	0.4
Electromechanical equipment assemblers <sup>(1)</sup>	51-2023	18.7	44.7	21.8	8.3	5.4	0.7	0.4
Engine and other machine assemblers	51-2031	12.8	48.1	23.4	6.9	8.9	0.0	0.0
Structural metal fabricators and fitters	51-2041	11.9	49.3	25.5	7.5	5.3	0.1	0.4
Fiberglass laminators and fabricators <sup>(1)</sup>	51-2091	17.5	46.8	22.5	6.5	5.7	0.8	0.2
Team assemblers <sup>(1)</sup>	51-2092	17.5	46.8	22.5	6.5	5.7	0.8	0.2
Timing device assemblers and adjusters <sup>(1)</sup>	51-2093	17.5	46.8	22.5	6.5	5.7	0.8	0.2
Assemblers and fabricators, all other <sup>(1)</sup>	51-2099	17.5	46.8	22.5	6.5	5.7	0.8	0.2
Bakers	51-3011	21.3	39.2	20.8	8.4	9.0	0.8	0.4
Butchers and meat cutters <sup>(1)</sup>	51-3021	34.0	39.7	17.7	4.4	3.5	0.5	0.1
Meat, poultry, and fish cutters and trimmers <sup>(1)</sup>	51-3022	34.0	39.7	17.7	4.4	3.5	0.5	0.1
Slaughterers and meat packers <sup>(1)</sup>	51-3023	34.0	39.7	17.7	4.4	3.5	0.5	0.1
machine operators and tenders	51-3091	22.0	41.5	18.3	5.1	12.4	0.2	0.5
Food batchmakers	51-3092	21.2	43.4	17.7	9.2	7.3	1.0	0.2



Food cooking machine operators and tenders	51-3093	27.9	40.4	18.5	6.6	6.6	0.0	0.0
Food processing workers, all other	51-3099	30.1	42.3	18.3	4.2	4.0	0.7	0.5
and plastic <sup>(1)</sup>	51-4011	6.8	40.5	33.8	11.5	6.1	1.0	0.4
Computer numerically controlled machine tool programmers, metal and plastic <sup>(1)</sup>	51-4012	6.8	40.5	33.8	11.5	6.1	1.0	0.4
Extruding and drawing machine setters, operators, and tenders, metal and plastic	51-4021	8.5	49.9	30.4	6.4	4.1	0.7	0.0
metal and plastic	51-4022	18.4	57.5	15.4	2.0	6.7	0.0	0.0
metal and plastic	51-4023	12.5	50.0	28.8	4.0	2.7	2.1	0.0
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4031	22.6	49.7	19.0	4.5	3.8	0.5	0.0
Drilling and boring machine tool setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4032	22.6	49.7	19.0	4.5	3.8	0.5	0.0
tool setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4033	22.6	49.7	19.0	4.5	3.8	0.5	0.0
Lathe and turning machine tool setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4034	22.6	49.7	19.0	4.5	3.8	0.5	0.0
tenders, metal and plastic <sup>(1)</sup>	51-4035	22.6	49.7	19.0	4.5	3.8	0.5	0.0
Machinists	51-4041	10.8	44.1	28.6	11.8	4.4	0.3	0.1
Metal-refining furnace operators and tenders <sup>(1)</sup>	51-4051	14.1	56.1	20.5	6.1	2.8	0.2	0.1
Pourers and casters, metal <sup>(1)</sup>	51-4052	14.1	56.1	20.5	6.1	2.8	0.2	0.1
Model makers, metal and plastic <sup>(1)</sup>	51-4061	16.8	48.1	21.8	7.4	5.6	0.3	0.0
Patternmakers, metal and plastic <sup>(1)</sup>	51-4062	16.8	48.1	21.8	7.4	5.6	0.3	0.0
Foundry mold and coremakers <sup>(1)</sup>	51-4071	16.8	48.1	21.8	7.4	5.6	0.3	0.0
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4072	16.8	48.1	21.8	7.4	5.6	0.3	0.0
tenders, metal and plastic <sup>(1)</sup>	51-4081	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Tool and die makers	51-4111	6.9	41.6	30.9	17.3	3.1	0.2	0.0
Welders, cutters, solderers, and brazers <sup>(1)</sup>	51-4121	19.8	46.8	22.8	7.8	2.4	0.3	0.1
operators, and tenders <sup>(1)</sup>	51-4122	19.8	46.8	22.8	7.8	2.4	0.3	0.1
tenders, metal and plastic <sup>(1)</sup>	51-4191	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Layout workers, metal and plastic <sup>(1)</sup>	51-4192	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Plating and coating machine setters, operators, and tenders, metal and plastic <sup>(1)</sup>	51-4193	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Tool grinders, filers, and sharpeners <sup>(1)</sup>	51-4194	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Metal workers and plastic workers, all other <sup>(1)</sup>	51-4199	19.6	47.2	22.4	6.1	3.9	0.6	0.2
Prepress technicians and workers	51-5111	11.5	30.4	26.4	13.3	14.9	2.9	0.6
Printing press operators	51-5112	11.3	46.8	25.2	7.4	8.5	0.7	0.2
Print binding and finishing workers	51-5113	12.0	48.1	22.3	9.9	6.7	0.8	0.2
Laundry and dry-cleaning workers	51-6011	35.2	41.6	14.2	3.8	4.2	0.9	0.1
Pressers, textile, garment, and related materials	51-6021	47.3	35.6	10.6	2.2	3.8	0.1	0.5
Sewing machine operators	51-6031	40.1	36.1	13.7	4.2	4.8	0.8	0.1
Shoe and leather workers and repairers <sup>(1)</sup>	51-6041	24.3	43.8	18.2	3.0	6.0	3.7	1.1

Shoe machine operators and tenders <sup>(1)</sup>	51-6042	24.3	43.8	18.2	3.0	6.0	3.7	1.1
Sewers, hand <sup>(1)</sup>	51-6051	25.7	29.7	21.3	8.1	12.4	2.2	0.5
Tailors, dressmakers, and custom sewers <sup>(1)</sup>	51-6052	25.7	29.7	21.3	8.1	12.4	2.2	0.5
tenders <sup>(1)</sup>	51-6061	27.5	50.5	11.9	1.9	7.5	0.7	0.0
tenders <sup>(1)</sup>	51-6062	27.5	50.5	11.9	1.9	7.5	0.7	0.0
operators, and tenders	51-6063	29.5	44.3	10.3	5.9	5.1	3.7	1.2
Textile winding, twisting, and drawing out machine setters, operators, and tenders	51-6064	36.6	44.8	12.7	3.6	1.6	0.2	0.5
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers <sup>(1)</sup>	51-6091	28.8	35.0	18.2	5.8	11.4	0.8	0.0
Fabric and apparel patternmakers <sup>(1)</sup>	51-6092	28.8	35.0	18.2	5.8	11.4	0.8	0.0
Upholsterers	51-6093	29.7	44.3	15.0	7.2	2.5	1.2	0.1
Textile, apparel, and furnishings workers, all other <sup>(1)</sup>	51-6099	28.8	35.0	18.2	5.8	11.4	0.8	0.0
Cabinetmakers and bench carpenters	51-7011	19.3	46.5	18.0	7.3	7.3	1.5	0.0
Furniture finishers	51-7021	23.1	36.0	16.7	9.7	11.9	2.7	0.0
Model makers, wood <sup>(1)</sup>	51-7031	15.1	40.5	21.4	8.4	11.1	2.9	0.6
Patternmakers, wood <sup>(1)</sup>	51-7032	15.1	40.5	21.4	8.4	11.1	2.9	0.6
wood	51-7041	30.3	47.0	14.1	4.6	3.7	0.2	0.2
tenders, except sawing	51-7042	26.5	51.6	12.9	3.7	4.4	0.8	0.0
Woodworkers, all other <sup>(1)</sup>	51-7099	15.1	40.5	21.4	8.4	11.1	2.9	0.6
Nuclear power reactor operators <sup>(1)</sup>	51-8011	1.1	28.2	32.6	18.2	17.3	2.4	0.3
Power distributors and dispatchers <sup>(1)</sup>	51-8012	1.1	28.2	32.6	18.2	17.3	2.4	0.3
Power plant operators <sup>(1)</sup>	51-8013	1.1	28.2	32.6	18.2	17.3	2.4	0.3
Stationary engineers and boiler operators	51-8021	6.5	39.0	30.7	10.9	10.1	2.1	0.7
operators	51-8031	3.4	40.2	31.5	11.6	11.0	2.0	0.3
Chemical plant and system operators <sup>(1)</sup>	51-8091	6.1	40.3	30.4	13.3	9.0	0.9	0.1
Gas plant operators <sup>(1)</sup>	51-8092	6.1	40.3	30.4	13.3	9.0	0.9	0.1
operators, and gaugers <sup>(1)</sup>	51-8093	6.1	40.3	30.4	13.3	9.0	0.9	0.1
Plant and system operators, all other <sup>(1)</sup>	51-8099	6.1	40.3	30.4	13.3	9.0	0.9	0.1
Chemical equipment operators and tenders <sup>(1)</sup>	51-9011	6.7	31.9	27.2	7.8	21.3	4.3	0.8
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders <sup>(1)</sup>	51-9012	6.7	31.9	27.2	7.8	21.3	4.3	0.8
operators, and tenders <sup>(1)</sup>	51-9021	18.4	47.2	21.6	5.5	6.4	0.6	0.3
Grinding and polishing workers, hand <sup>(1)</sup>	51-9022	18.4	47.2	21.6	5.5	6.4	0.6	0.3
tenders <sup>(1)</sup>	51-9023	18.4	47.2	21.6	5.5	6.4	0.6	0.3
Cutters and trimmers, hand <sup>(1)</sup>	51-9031	31.3	44.3	16.0	5.0	2.5	0.9	0.0
tenders <sup>(1)</sup>	51-9032	31.3	44.3	16.0	5.0	2.5	0.9	0.0
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	51-9041	15.1	57.7	19.2	4.6	3.0	0.5	0.0
tenders	51-9051	23.4	39.0	22.7	6.0	7.6	1.1	0.3
Inspectors, testers, sorters, samplers, and weighers	51-9061	10.2	35.7	26.5	10.7	13.4	3.0	0.5
Jewelers and precious stone and metal workers	51-9071	15.7	27.0	23.1	8.7	20.5	3.9	1.1
Dental laboratory technicians <sup>(1)</sup>	51-9081	6.2	29.5	31.7	17.7	12.3	1.5	1.0

Medical appliance technicians <sup>(1)</sup>	51-9082	6.2	29.5	31.7	17.7	12.3	1.5	1.0
Ophthalmic laboratory technicians <sup>(1)</sup>	51-9083	6.2	29.5	31.7	17.7	12.3	1.5	1.0
Packaging and filling machine operators and tenders	51-9111	34.4	40.6	16.1	4.2	4.1	0.4	0.2
operators, and tenders <sup>(1)</sup>	51-9121	23.5	48.6	18.5	4.6	4.2	0.4	0.2
Painters, transportation equipment <sup>(1)</sup>	51-9122	23.5	48.6	18.5	4.6	4.2	0.4	0.2
Painting, coating, and decorating workers <sup>(1)</sup>	51-9123	23.5	48.6	18.5	4.6	4.2	0.4	0.2
Semiconductor processors <sup>(1)</sup>	51-9141	19.4	46.4	20.7	6.6	5.7	0.9	0.2
machine operators	51-9151	6.1	25.9	21.6	10.4	30.4	4.7	0.9
Adhesive bonding machine operators and tenders	51-9191	21.6	49.2	21.5	2.2	4.9	0.5	0.0
operators and tenders <sup>(1)</sup>	51-9192	19.4	46.4	20.7	6.6	5.7	0.9	0.2
tenders <sup>(1)</sup>	51-9193	19.4	46.4	20.7	6.6	5.7	0.9	0.2
Etchers and engravers	51-9194	12.8	36.3	25.3	8.7	13.6	2.2	1.2
plastic	51-9195	18.5	39.9	19.9	5.3	11.2	4.0	1.3
tenders	51-9196	21.8	50.0	17.2	7.2	3.3	0.5	0.0
Tire builders	51-9197	4.8	53.1	32.1	5.5	3.2	0.5	0.9
Helpers--production workers	51-9198	36.3	38.7	15.2	2.8	5.3	1.3	0.2
Production workers, all other <sup>(1)</sup>	51-9199	19.4	46.4	20.7	6.6	5.7	0.9	0.2
Aircraft cargo handling supervisors <sup>(1)</sup>	53-1011	8.1	34.8	28.2	9.9	16.1	2.6	0.4
material movers, hand <sup>(1)</sup>	53-1021	8.1	34.8	28.2	9.9	16.1	2.6	0.4
First-line supervisors of transportation and material-moving machine and vehicle operators <sup>(1)</sup>	53-1031	8.1	34.8	28.2	9.9	16.1	2.6	0.4
Airline pilots, copilots, and flight engineers <sup>(1)</sup>	53-2011	0.3	4.9	12.9	8.0	59.5	12.5	1.9
Commercial pilots <sup>(1)</sup>	53-2012	0.3	4.9	12.9	8.0	59.5	12.5	1.9
Air traffic controllers <sup>(1)</sup>	53-2021	0.6	9.5	32.6	14.7	34.5	6.9	1.1
Airfield operations specialists <sup>(1)</sup>	53-2022	0.6	9.5	32.6	14.7	34.5	6.9	1.1
Flight attendants	53-2031	1.0	13.8	32.2	12.5	35.1	4.1	1.3
emergency medical technicians	53-3011	9.4	43.7	27.6	5.8	9.2	4.3	0.0
Bus drivers, transit and intercity <sup>(1)</sup>	53-3021	8.9	43.3	29.0	9.1	7.5	1.7	0.4
Bus drivers, school or special client <sup>(1)</sup>	53-3022	8.9	43.3	29.0	9.1	7.5	1.7	0.4
Driver/sales workers <sup>(1)</sup>	53-3031	16.3	47.6	23.5	6.1	5.4	0.9	0.3
Heavy and tractor-trailer truck drivers <sup>(1)</sup>	53-3032	16.3	47.6	23.5	6.1	5.4	0.9	0.3
Light truck or delivery services drivers <sup>(1)</sup>	53-3033	16.3	47.6	23.5	6.1	5.4	0.9	0.3
Taxi drivers and chauffeurs	53-3041	13.5	34.4	25.3	7.7	14.4	3.9	0.8
Motor vehicle operators, all other	53-3099	10.7	42.6	24.1	7.5	11.8	2.6	0.7
Locomotive engineers <sup>(1)</sup>	53-4011	3.2	36.7	37.2	11.0	11.1	0.8	0.0
Locomotive firers <sup>(1)</sup>	53-4012	3.2	36.7	37.2	11.0	11.1	0.8	0.0
Rail yard engineers, dinkey operators, and hostlers <sup>(1)</sup>	53-4013	3.2	36.7	37.2	11.0	11.1	0.8	0.0
Railroad brake, signal, and switch operators <sup>(1)</sup>	53-4021	6.0	38.0	34.5	10.7	7.9	2.2	0.7
Railroad conductors and yardmasters	53-4031	2.6	33.1	36.3	12.2	13.3	1.7	0.8
Subway and streetcar operators <sup>(1)</sup>	53-4041	6.0	38.0	34.5	10.7	7.9	2.2	0.7
Rail transportation workers, all other <sup>(1)</sup>	53-4099	6.0	38.0	34.5	10.7	7.9	2.2	0.7
Sailors and marine oilers <sup>(1)</sup>	53-5011	11.9	37.2	30.2	4.9	13.5	2.4	0.0

Captains, mates, and pilots of water vessels <sup>(1)</sup>	53-5021	8.7	31.7	26.1	7.7	20.0	4.0	1.7
Motorboat operators <sup>(1)</sup>	53-5022	8.7	31.7	26.1	7.7	20.0	4.0	1.7
Ship engineers <sup>(1)</sup>	53-5031	11.9	37.2	30.2	4.9	13.5	2.4	0.0
Bridge and lock tenders <sup>(1)</sup>	53-6011	5.3	38.8	34.4	9.9	8.0	3.3	0.4
Parking lot attendants	53-6021	15.3	36.8	24.1	9.8	11.3	2.4	0.3
Automotive and watercraft service attendants	53-6031	18.9	43.8	24.7	4.5	6.3	1.4	0.4
Traffic technicians <sup>(1)</sup>	53-6041	5.3	38.8	34.4	9.9	8.0	3.3	0.4
Transportation inspectors	53-6051	5.0	32.7	30.9	14.1	14.4	2.7	0.2
Transportation attendants, except flight attendants	53-6061	10.1	42.8	29.3	6.3	10.2	1.2	0.1
Transportation workers, all other <sup>(1)</sup>	53-6099	5.3	38.8	34.4	9.9	8.0	3.3	0.4
Conveyor operators and tenders <sup>(1)</sup>	53-7011	16.8	59.1	12.3	6.9	4.6	0.4	0.0
Crane and tower operators	53-7021	16.6	50.2	23.6	5.6	3.6	0.3	0.0
Dredge operators <sup>(1)</sup>	53-7031	20.0	51.0	20.4	4.2	4.0	0.4	0.0
operators <sup>(1)</sup>	53-7032	20.0	51.0	20.4	4.2	4.0	0.4	0.0
Loading machine operators, underground mining <sup>(1)</sup>	53-7033	20.0	51.0	20.4	4.2	4.0	0.4	0.0
Hoist and winch operators <sup>(1)</sup>	53-7041	16.8	59.1	12.3	6.9	4.6	0.4	0.0
Industrial truck and tractor operators	53-7051	20.4	51.9	20.2	4.3	2.9	0.2	0.0
Cleaners of vehicles and equipment	53-7061	30.2	43.7	16.9	4.5	3.8	0.6	0.3
hand	53-7062	18.8	47.0	21.7	5.9	5.7	0.8	0.3
Machine feeders and offbearers	53-7063	25.5	45.8	17.9	6.0	4.1	0.6	0.2
Packers and packagers, hand	53-7064	35.6	39.3	16.0	4.1	4.2	0.5	0.2
operators <sup>(1)</sup>	53-7071	11.5	46.3	26.9	7.8	7.1	0.3	0.0
Pump operators, except wellhead pumpers <sup>(1)</sup>	53-7072	11.5	46.3	26.9	7.8	7.1	0.3	0.0
Wellhead pumpers <sup>(1)</sup>	53-7073	11.5	46.3	26.9	7.8	7.1	0.3	0.0
Refuse and recyclable material collectors	53-7081	25.8	48.2	16.7	4.9	3.9	0.6	0.1
Mine shuttle car operators <sup>(1)</sup>	53-7111	16.9	46.9	23.1	7.0	5.5	0.7	0.1
Tank car, truck, and ship loaders <sup>(1)</sup>	53-7121	16.9	46.9	23.1	7.0	5.5	0.7	0.1
Material moving workers, all other <sup>(1)</sup>	53-7199	16.9	46.9	23.1	7.0	5.5	0.7	0.1

Footnotes:

<sup>(1)</sup> Data for this occupation is shared with other occupations; see [https://www.bls.gov/emp/classifications-crosswalks/NEM\\_OccCode\\_ACS\\_Crosswalk.xlsx](https://www.bls.gov/emp/classifications-crosswalks/NEM_OccCode_ACS_Crosswalk.xlsx) for det

Data Source: 2015 and 2016 American Community Survey Public Use Microdata, U.S. Department of Commerce, U.S. Census Bureau

Table Source: Employment Projections program, U.S. Bureau of Labor Statistics

Table 1.12 Education and training assignments by detailed occupation, 2016

2016 National Employment Matrix title and code	Typical education needed for entry	Experience in a related occupation	Training needed to attain competency in the occupation
Chief executives	11-1011 Bachelor's degree	5 years or more	None
General and operations managers	11-1021 Bachelor's degree	5 years or more	None
Legislators	11-1031 Bachelor's degree	Less than 5 years	None
Advertising and promotions managers	11-2011 Bachelor's degree	Less than 5 years	None
Marketing managers	11-2021 Bachelor's degree	5 years or more	None
Sales managers	11-2022 Bachelor's degree	Less than 5 years	None
Public relations and fundraising managers	11-2031 Bachelor's degree	5 years or more	None
Administrative services managers	11-3011 Bachelor's degree	Less than 5 years	None
Computer and information systems managers	11-3021 Bachelor's degree	5 years or more	None
Financial managers	11-3031 Bachelor's degree	5 years or more	None
Industrial production managers	11-3051 Bachelor's degree	5 years or more	None
Purchasing managers	11-3061 Bachelor's degree	5 years or more	None
Transportation, storage, and distribution managers	11-3071 High school diploma or equivalent	5 years or more	None
Compensation and benefits managers	11-3111 Bachelor's degree	5 years or more	None
Human resources managers	11-3121 Bachelor's degree	5 years or more	None
Training and development managers	11-3131 Bachelor's degree	5 years or more	None
Farmers, ranchers, and other agricultural managers	11-9013 High school diploma or equivalent	5 years or more	None
Construction managers	11-9021 Bachelor's degree	None	Moderate-term on-the-job training
Education administrators, preschool and childcare centers	11-9031 Bachelor's degree	Less than 5 years	None
Education administrators, elementary and secondary schools	11-9032 Master's degree	5 years or more	None
Education administrators, postsecondary	11-9033 Master's degree	Less than 5 years	None
Education administrators, all other	11-9039 Bachelor's degree	Less than 5 years	None
Architectural and engineering managers	11-9041 Bachelor's degree	5 years or more	None
Food service managers	11-9051 High school diploma or equivalent	Less than 5 years	None
Funeral service managers	11-9061 Associate's degree	Less than 5 years	None
Gaming managers	11-9071 High school diploma or equivalent	Less than 5 years	None
Lodging managers	11-9081 High school diploma or equivalent	Less than 5 years	None
Medical and health services managers	11-9111 Bachelor's degree	Less than 5 years	None
Natural sciences managers	11-9121 Bachelor's degree	5 years or more	None
Postmasters and mail superintendents	11-9131 High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Property, real estate, and community association managers	11-9141 High school diploma or equivalent	Less than 5 years	None
Social and community service managers	11-9151 Bachelor's degree	Less than 5 years	None
Emergency management directors	11-9161 Bachelor's degree	5 years or more	None
Managers, all other	11-9199 Bachelor's degree	Less than 5 years	None
Agents and business managers of artists, performers, and entertainers	13-1011 Bachelor's degree	Less than 5 years	None
Buyers and purchasing agents, farm products	13-1021 Bachelor's degree	None	Moderate-term on-the-job training
Wholesale and retail buyers, except farm products	13-1022 Bachelor's degree	None	Moderate-term on-the-job training
Purchasing agents, except wholesale, retail, and farm products	13-1023 Bachelor's degree	None	Moderate-term on-the-job training
Claims adjusters, examiners, and investigators	13-1031 High school diploma or equivalent	None	Long-term on-the-job training
Insurance appraisers, auto damage	13-1032 Postsecondary nondegree award	None	Moderate-term on-the-job training
Compliance officers	13-1041 Bachelor's degree	None	Moderate-term on-the-job training
Cost estimators	13-1051 Bachelor's degree	None	Moderate-term on-the-job training
Human resources specialists	13-1071 Bachelor's degree	None	None
Farm labor contractors	13-1074 No formal educational credential	Less than 5 years	Short-term on-the-job training
Labor relations specialists	13-1075 Bachelor's degree	Less than 5 years	None
Logisticians	13-1081 Bachelor's degree	None	None
Management analysts	13-1111 Bachelor's degree	Less than 5 years	None
Meeting, convention, and event planners	13-1121 Bachelor's degree	None	None
Fundraisers	13-1131 Bachelor's degree	None	None
Compensation, benefits, and job analysis specialists	13-1141 Bachelor's degree	Less than 5 years	None
Training and development specialists	13-1151 Bachelor's degree	Less than 5 years	None
Market research analysts and marketing specialists	13-1161 Bachelor's degree	None	None
Business operations specialists, all other	13-1199 Bachelor's degree	None	None
Accountants and auditors	13-2011 Bachelor's degree	None	None
Appraisers and assessors of real estate	13-2021 Bachelor's degree	None	Long-term on-the-job training
Budget analysts	13-2031 Bachelor's degree	None	None
Credit analysts	13-2041 Bachelor's degree	None	None
Financial analysts	13-2051 Bachelor's degree	None	None
Personal financial advisors	13-2052 Bachelor's degree	None	Long-term on-the-job training
Insurance underwriters	13-2053 Bachelor's degree	None	Moderate-term on-the-job training
Financial examiners	13-2061 Bachelor's degree	None	Long-term on-the-job training
Credit counselors	13-2071 Bachelor's degree	None	Moderate-term on-the-job training
Loan officers	13-2072 Bachelor's degree	None	Moderate-term on-the-job training
Tax examiners and collectors, and revenue agents	13-2081 Bachelor's degree	None	Moderate-term on-the-job training
Tax preparers	13-2082 High school diploma or equivalent	None	Moderate-term on-the-job training
Financial specialists, all other	13-2099 Bachelor's degree	None	Moderate-term on-the-job training
Computer and information research scientists	15-1111 Master's degree	None	None
Computer systems analysts	15-1121 Bachelor's degree	None	None
Information security analysts	15-1122 Bachelor's degree	Less than 5 years	None
Computer programmers	15-1131 Bachelor's degree	None	None
Software developers, applications	15-1132 Bachelor's degree	None	None
Software developers, systems software	15-1133 Bachelor's degree	None	None
Web developers	15-1134 Associate's degree	None	None
Database administrators	15-1141 Bachelor's degree	None	None
Network and computer systems administrators	15-1142 Bachelor's degree	None	None
Computer network architects	15-1143 Bachelor's degree	5 years or more	None
Computer user support specialists	15-1151 Some college, no degree	None	None
Computer network support specialists	15-1152 Associate's degree	None	None
Computer occupations, all other	15-1199 Bachelor's degree	None	None
Actuaries	15-2011 Bachelor's degree	None	Long-term on-the-job training
Mathematicians	15-2021 Master's degree	None	None
Operations research analysts	15-2031 Bachelor's degree	None	None
Statisticians	15-2041 Master's degree	None	None
Mathematical technicians	15-2091 Bachelor's degree	None	None
Mathematical science occupations, all other	15-2099 Bachelor's degree	None	None
Architects, except landscape and naval	17-1011 Bachelor's degree	None	Internship/residency
Landscape architects	17-1012 Bachelor's degree	None	Internship/residency
Cartographers and photogrammetrists	17-1021 Bachelor's degree	None	None
Surveyors	17-1022 Bachelor's degree	None	Internship/residency
Aerospace engineers	17-2011 Bachelor's degree	None	None
Agricultural engineers	17-2021 Bachelor's degree	None	None
Biomedical engineers	17-2031 Bachelor's degree	None	None
Chemical engineers	17-2041 Bachelor's degree	None	None
Civil engineers	17-2051 Bachelor's degree	None	None
Computer hardware engineers	17-2061 Bachelor's degree	None	None
Electrical engineers	17-2071 Bachelor's degree	None	None
Electronics engineers, except computer	17-2072 Bachelor's degree	None	None
Environmental engineers	17-2081 Bachelor's degree	None	None
Health and safety engineers, except mining safety engineers	17-2111 Bachelor's degree	None	None
Industrial engineers	17-2112 Bachelor's degree	None	None
Marine engineers and naval architects	17-2121 Bachelor's degree	None	None
Materials engineers	17-2131 Bachelor's degree	None	None
Mechanical engineers	17-2141 Bachelor's degree	None	None
Mining and geological engineers, including mining safety engineers	17-2151 Bachelor's degree	None	None
Nuclear engineers	17-2161 Bachelor's degree	None	None
Petroleum engineers	17-2171 Bachelor's degree	None	None
Engineers, all other	17-2199 Bachelor's degree	None	None
Architectural and civil drafters	17-3011 Associate's degree	None	None
Electrical and electronics drafters	17-3012 Associate's degree	None	None
Mechanical drafters	17-3013 Associate's degree	None	None
Drafters, all other	17-3019 Associate's degree	None	None
Aerospace engineering and operations technicians	17-3021 Associate's degree	None	None
Civil engineering technicians	17-3022 Associate's degree	None	None

Electrical and electronics engineering technicians	17-3023	Associate's degree	None	None
Electro-mechanical technicians	17-3024	Associate's degree	None	None
Environmental engineering technicians	17-3025	Associate's degree	None	None
Industrial engineering technicians	17-3026	Associate's degree	None	None
Mechanical engineering technicians	17-3027	Associate's degree	None	None
Engineering technicians, except drafters, all other	17-3029	Associate's degree	None	None
Surveying and mapping technicians	17-3031	High school diploma or equivalent	None	Moderate-term on-the-job training
Animal scientists	19-1011	Bachelor's degree	None	None
Food scientists and technologists	19-1012	Bachelor's degree	None	None
Soil and plant scientists	19-1013	Bachelor's degree	None	None
Biochemists and biophysicists	19-1021	Doctoral or professional degree	None	None
Microbiologists	19-1022	Bachelor's degree	None	None
Zoologists and wildlife biologists	19-1023	Bachelor's degree	None	None
Biological scientists, all other	19-1029	Bachelor's degree	None	None
Conservation scientists	19-1031	Bachelor's degree	None	None
Foresters	19-1032	Bachelor's degree	None	None
Epidemiologists	19-1041	Master's degree	None	None
Medical scientists, except epidemiologists	19-1042	Doctoral or professional degree	None	None
Life scientists, all other	19-1099	Bachelor's degree	None	None
Astronomers	19-2011	Doctoral or professional degree	None	None
Physicists	19-2012	Doctoral or professional degree	None	None
Atmospheric and space scientists	19-2021	Bachelor's degree	None	None
Chemists	19-2031	Bachelor's degree	None	None
Materials scientists	19-2032	Bachelor's degree	None	None
Environmental scientists and specialists, including health	19-2041	Bachelor's degree	None	None
Geoscientists, except hydrologists and geographers	19-2042	Bachelor's degree	None	None
Hydrologists	19-2043	Bachelor's degree	None	None
Physical scientists, all other	19-2099	Bachelor's degree	None	None
Economists	19-3011	Master's degree	None	None
Survey researchers	19-3022	Master's degree	None	None
Clinical, counseling, and school psychologists	19-3031	Doctoral or professional degree	None	Internship/residency
Industrial-organizational psychologists	19-3032	Master's degree	None	Internship/residency
Psychologists, all other	19-3039	Master's degree	None	Internship/residency
Sociologists	19-3041	Master's degree	None	None
Urban and regional planners	19-3051	Master's degree	None	None
Anthropologists and archeologists	19-3091	Master's degree	None	None
Geographers	19-3092	Bachelor's degree	None	None
Historians	19-3093	Master's degree	None	None
Political scientists	19-3094	Master's degree	None	None
Social scientists and related workers, all other	19-3099	Bachelor's degree	None	None
Agricultural and food science technicians	19-4011	Associate's degree	None	Moderate-term on-the-job training
Biological technicians	19-4021	Bachelor's degree	None	None
Chemical technicians	19-4031	Associate's degree	None	Moderate-term on-the-job training
Geological and petroleum technicians	19-4041	Associate's degree	None	Moderate-term on-the-job training
Nuclear technicians	19-4051	Associate's degree	None	Moderate-term on-the-job training
Social science research assistants	19-4061	Bachelor's degree	None	None
Environmental science and protection technicians, incl	19-4091	Associate's degree	None	None
Forensic science technicians	19-4092	Bachelor's degree	None	Moderate-term on-the-job training
Forest and conservation technicians	19-4093	Associate's degree	None	None
Life, physical, and social science technicians, all other	19-4099	Associate's degree	None	None
Substance abuse and behavioral disorder counselors	21-1011	Bachelor's degree	None	None
Educational, guidance, school, and vocational counsel	21-1012	Master's degree	None	None
Marriage and family therapists	21-1013	Master's degree	None	Internship/residency
Mental health counselors	21-1014	Master's degree	None	Internship/residency
Rehabilitation counselors	21-1015	Master's degree	None	None
Counselors, all other	21-1019	Master's degree	None	None
Child, family, and school social workers	21-1021	Bachelor's degree	None	None
Healthcare social workers	21-1022	Master's degree	None	Internship/residency
Mental health and substance abuse social workers	21-1023	Master's degree	None	Internship/residency
Social workers, all other	21-1029	Bachelor's degree	None	None
Health educators	21-1091	Bachelor's degree	None	None
Probation officers and correctional treatment specialist	21-1092	Bachelor's degree	None	Short-term on-the-job training
Social and human service assistants	21-1093	High school diploma or equivalent	None	Short-term on-the-job training
Community health workers	21-1094	High school diploma or equivalent	None	Short-term on-the-job training
Community and social service specialists, all other	21-1099	Bachelor's degree	None	None
Clergy	21-2011	Bachelor's degree	None	Moderate-term on-the-job training
Directors, religious activities and education	21-2021	Bachelor's degree	Less than 5 years	None
Religious workers, all other	21-2099	Bachelor's degree	None	None
Lawyers	23-1011	Doctoral or professional degree	None	None
Judicial law clerks	23-1012	Doctoral or professional degree	None	None
Administrative law judges, adjudicators, and hearing of	23-1021	Doctoral or professional degree	5 years or more	Short-term on-the-job training
Arbitrators, mediators, and conciliators	23-1022	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
Judges, magistrate judges, and magistrates	23-1023	Doctoral or professional degree	5 years or more	Short-term on-the-job training
Paralegals and legal assistants	23-2011	Associate's degree	None	None
Court reporters	23-2091	Postsecondary nondegree award	None	Short-term on-the-job training
Title examiners, abstractors, and searchers	23-2093	High school diploma or equivalent	None	Moderate-term on-the-job training
Legal support workers, all other	23-2099	Associate's degree	None	None
Business teachers, postsecondary	25-1011	Doctoral or professional degree	None	None
Computer science teachers, postsecondary	25-1021	Doctoral or professional degree	None	None
Mathematical science teachers, postsecondary	25-1022	Doctoral or professional degree	None	None
Architecture teachers, postsecondary	25-1031	Doctoral or professional degree	None	None
Engineering teachers, postsecondary	25-1032	Doctoral or professional degree	None	None
Agricultural sciences teachers, postsecondary	25-1041	Doctoral or professional degree	None	None
Biological science teachers, postsecondary	25-1042	Doctoral or professional degree	None	None
Forestry and conservation science teachers, postseco	25-1043	Doctoral or professional degree	None	None
Atmospheric, earth, marine, and space sciences teach	25-1051	Doctoral or professional degree	None	None
Chemistry teachers, postsecondary	25-1052	Doctoral or professional degree	None	None
Environmental science teachers, postsecondary	25-1053	Doctoral or professional degree	None	None
Physics teachers, postsecondary	25-1054	Doctoral or professional degree	None	None
Anthropology and archeology teachers, postsecondary	25-1061	Doctoral or professional degree	None	None
Area, ethnic, and cultural studies teachers, postsecon	25-1062	Doctoral or professional degree	None	None
Economics teachers, postsecondary	25-1063	Doctoral or professional degree	None	None
Geography teachers, postsecondary	25-1064	Doctoral or professional degree	None	None
Political science teachers, postsecondary	25-1065	Doctoral or professional degree	None	None
Psychology teachers, postsecondary	25-1066	Doctoral or professional degree	None	None
Sociology teachers, postsecondary	25-1067	Doctoral or professional degree	None	None
Social sciences teachers, postsecondary, all other	25-1069	Doctoral or professional degree	None	None
Health specialties teachers, postsecondary	25-1071	Doctoral or professional degree	Less than 5 years	None
Nursing instructors and teachers, postsecondary	25-1072	Doctoral or professional degree	Less than 5 years	None
Education teachers, postsecondary	25-1081	Doctoral or professional degree	Less than 5 years	None
Library science teachers, postsecondary	25-1082	Doctoral or professional degree	None	None
Criminal justice and law enforcement teachers, postse	25-1111	Doctoral or professional degree	None	None
Law teachers, postsecondary	25-1112	Doctoral or professional degree	Less than 5 years	None
Social work teachers, postsecondary	25-1113	Doctoral or professional degree	None	None
Art, drama, and music teachers, postsecondary	25-1121	Master's degree	None	None
Communications teachers, postsecondary	25-1122	Doctoral or professional degree	None	None
English language and literature teachers, postsecon	25-1123	Doctoral or professional degree	None	None
Foreign language and literature teachers, postsecon	25-1124	Doctoral or professional degree	None	None
History teachers, postsecondary	25-1125	Doctoral or professional degree	None	None
Philosophy and religion teachers, postsecondary	25-1126	Doctoral or professional degree	None	None
Graduate teaching assistants	25-1191	Bachelor's degree	None	None
Home economics teachers, postsecondary	25-1192	Master's degree	None	None
Recreation and fitness studies teachers, postsecon	25-1193	Doctoral or professional degree	None	None
Vocational education teachers, postsecondary	25-1194	Bachelor's degree	Less than 5 years	None
Postsecondary teachers, all other	25-1199	Doctoral or professional degree	None	None
Preschool teachers, except special education	25-2011	Associate's degree	None	None
Kindergarten teachers, except special education	25-2012	Bachelor's degree	None	None
Elementary school teachers, except special education	25-2021	Bachelor's degree	None	None

Middle school teachers, except special and career/tec	25-2022	Bachelor's degree	None	None
Career/technical education teachers, middle school	25-2023	Bachelor's degree	Less than 5 years	None
Secondary school teachers, except special and career	25-2031	Bachelor's degree	None	None
Career/technical education teachers, secondary school	25-2032	Bachelor's degree	Less than 5 years	None
Special education teachers, preschool	25-2051	Bachelor's degree	None	None
Special education teachers, kindergarten and element	25-2052	Bachelor's degree	None	None
Special education teachers, middle school	25-2053	Bachelor's degree	None	None
Special education teachers, secondary school	25-2054	Bachelor's degree	None	None
Special education teachers, all other	25-2059	Bachelor's degree	None	None
Adult basic and secondary education and literacy teac	25-3011	Bachelor's degree	None	None
Self-enrichment education teachers	25-3021	High school diploma or equivalent	Less than 5 years	None
Teachers and instructors, all other	25-3099	Bachelor's degree	None	None
Archivists	25-4011	Master's degree	None	None
Curators	25-4012	Master's degree	None	None
Museum technicians and conservators	25-4013	Bachelor's degree	None	None
Librarians	25-4021	Master's degree	None	None
Library technicians	25-4031	Postsecondary nondegree award	None	None
Audio-visual and multimedia collections specialists	25-9011	Bachelor's degree	Less than 5 years	None
Farm and home management advisors	25-9021	Master's degree	None	None
Instructional coordinators	25-9031	Master's degree	5 years or more	None
Teacher assistants	25-9041	Some college, no degree	None	None
Education, training, and library workers, all other	25-9099	Bachelor's degree	None	None
Art directors	27-1011	Bachelor's degree	5 years or more	None
Craft artists	27-1012	No formal educational credential	None	Long-term on-the-job training
Fine artists, including painters, sculptors, and illustrato	27-1013	Bachelor's degree	None	Long-term on-the-job training
Multimedia artists and animators	27-1014	Bachelor's degree	None	None
Artists and related workers, all other	27-1019	No formal educational credential	None	Long-term on-the-job training
Commercial and industrial designers	27-1021	Bachelor's degree	None	None
Fashion designers	27-1022	Bachelor's degree	None	None
Floral designers	27-1023	High school diploma or equivalent	None	Moderate-term on-the-job training
Graphic designers	27-1024	Bachelor's degree	None	None
Interior designers	27-1025	Bachelor's degree	None	None
Merchandise displays and window trimmers	27-1026	High school diploma or equivalent	None	Short-term on-the-job training
Set and exhibit designers	27-1027	Bachelor's degree	None	None
Designers, all other	27-1029	Bachelor's degree	None	None
Actors	27-2011	Some college, no degree	None	Long-term on-the-job training
Producers and directors	27-2012	Bachelor's degree	Less than 5 years	None
Athletes and sports competitors	27-2021	No formal educational credential	None	Long-term on-the-job training
Coaches and scouts	27-2022	Bachelor's degree	None	None
Umpires, referees, and other sports officials	27-2023	High school diploma or equivalent	None	Moderate-term on-the-job training
Dancers	27-2031	No formal educational credential	None	Long-term on-the-job training
Choreographers	27-2032	High school diploma or equivalent	5 years or more	Long-term on-the-job training
Music directors and composers	27-2041	Bachelor's degree	Less than 5 years	None
Musicians and singers	27-2042	No formal educational credential	None	Long-term on-the-job training
Entertainers and performers, sports and related work	27-2099	No formal educational credential	None	Short-term on-the-job training
Radio and television announcers	27-3011	Bachelor's degree	None	None
Public address system and other announcers	27-3012	High school diploma or equivalent	None	Short-term on-the-job training
Broadcast news analysts	27-3021	Bachelor's degree	None	None
Reporters and correspondents	27-3022	Bachelor's degree	None	None
Public relations specialists	27-3031	Bachelor's degree	None	None
Editors	27-3041	Bachelor's degree	Less than 5 years	None
Technical writers	27-3042	Bachelor's degree	Less than 5 years	Short-term on-the-job training
Writers and authors	27-3043	Bachelor's degree	None	Long-term on-the-job training
Interpreters and translators	27-3091	Bachelor's degree	None	None
Media and communication workers, all other	27-3099	High school diploma or equivalent	None	Short-term on-the-job training
Audio and video equipment technicians	27-4011	Postsecondary nondegree award	None	Short-term on-the-job training
Broadcast technicians	27-4012	Associate's degree	None	Short-term on-the-job training
Radio operators	27-4013	High school diploma or equivalent	None	Short-term on-the-job training
Sound engineering technicians	27-4014	Postsecondary nondegree award	None	Short-term on-the-job training
Photographers	27-4021	High school diploma or equivalent	None	Long-term on-the-job training
Camera operators, television, video, and motion pictur	27-4031	Bachelor's degree	None	None
Film and video editors	27-4032	Bachelor's degree	None	None
Media and communication equipment workers, all othe	27-4099	High school diploma or equivalent	None	Short-term on-the-job training
Chiropractors	29-1011	Doctoral or professional degree	None	None
Dentists, general	29-1021	Doctoral or professional degree	None	None
Oral and maxillofacial surgeons	29-1022	Doctoral or professional degree	None	Internship/residency
Orthodontists	29-1023	Doctoral or professional degree	None	Internship/residency
Prosthodontists	29-1024	Doctoral or professional degree	None	Internship/residency
Dentists, all other specialists	29-1029	Doctoral or professional degree	None	Internship/residency
Dietitians and nutritionists	29-1031	Bachelor's degree	None	Internship/residency
Optometrists	29-1041	Doctoral or professional degree	None	None
Pharmacists	29-1051	Doctoral or professional degree	None	None
Anesthesiologists	29-1061	Doctoral or professional degree	None	Internship/residency
Family and general practitioners	29-1062	Doctoral or professional degree	None	Internship/residency
Internists, general	29-1063	Doctoral or professional degree	None	Internship/residency
Obstetricians and gynecologists	29-1064	Doctoral or professional degree	None	Internship/residency
Pediatricians, general	29-1065	Doctoral or professional degree	None	Internship/residency
Psychiatrists	29-1066	Doctoral or professional degree	None	Internship/residency
Surgeons	29-1067	Doctoral or professional degree	None	Internship/residency
Physicians and surgeons, all other	29-1069	Doctoral or professional degree	None	Internship/residency
Physician assistants	29-1071	Master's degree	None	None
Podiatrists	29-1081	Doctoral or professional degree	None	Internship/residency
Occupational therapists	29-1122	Master's degree	None	None
Physical therapists	29-1123	Doctoral or professional degree	None	None
Radiation therapists	29-1124	Associate's degree	None	None
Recreational therapists	29-1125	Bachelor's degree	None	None
Respiratory therapists	29-1126	Associate's degree	None	None
Speech-language pathologists	29-1127	Master's degree	None	Internship/residency
Exercise physiologists	29-1128	Bachelor's degree	None	None
Therapists, all other	29-1129	Bachelor's degree	None	None
Veterinarians	29-1131	Doctoral or professional degree	None	None
Registered nurses	29-1141	Bachelor's degree	None	None
Nurse anesthetists	29-1151	Master's degree	None	None
Nurse midwives	29-1161	Master's degree	None	None
Nurse practitioners	29-1171	Master's degree	None	None
Audiologists	29-1181	Doctoral or professional degree	None	None
Health diagnosing and treating practitioners, all other	29-1199	Master's degree	None	None
Medical and clinical laboratory technologists	29-2011	Bachelor's degree	None	None
Medical and clinical laboratory technicians	29-2012	Associate's degree	None	None
Dental hygienists	29-2021	Associate's degree	None	None
Cardiovascular technologists and technicians	29-2031	Associate's degree	None	None
Diagnostic medical sonographers	29-2032	Associate's degree	None	None
Nuclear medicine technologists	29-2033	Associate's degree	None	None
Radiologic technologists	29-2034	Associate's degree	None	None
Magnetic resonance imaging technologists	29-2035	Associate's degree	Less than 5 years	None
Emergency medical technicians and paramedics	29-2041	Postsecondary nondegree award	None	None
Dietetic technicians	29-2051	Associate's degree	None	None
Pharmacy technicians	29-2052	High school diploma or equivalent	None	Moderate-term on-the-job training
Psychiatric technicians	29-2053	Postsecondary nondegree award	Less than 5 years	Short-term on-the-job training
Respiratory therapy technicians	29-2054	Associate's degree	None	None
Surgical technologists	29-2055	Postsecondary nondegree award	None	None
Veterinary technologists and technicians	29-2056	Associate's degree	None	None
Ophthalmic medical technicians	29-2057	Postsecondary nondegree award	None	None
Licensed practical and licensed vocational nurses	29-2061	Postsecondary nondegree award	None	None
Medical records and health information technicians	29-2071	Postsecondary nondegree award	None	None
Opticians, dispensing	29-2081	High school diploma or equivalent	None	Long-term on-the-job training
Orthotists and prosthetists	29-2091	Master's degree	None	Internship/residency
Hearing aid specialists	29-2092	High school diploma or equivalent	None	Moderate-term on-the-job training

Health technologists and technicians, all other	29-2099	Postsecondary nondegree award	None	None
Occupational health and safety specialists	29-9011	Bachelor's degree	None	None
Occupational health and safety technicians	29-9012	High school diploma or equivalent	None	Moderate-term on-the-job training
Athletic trainers	29-9091	Bachelor's degree	None	None
Genetic counselors	29-9092	Master's degree	None	None
Healthcare practitioners and technical workers, all other	29-9099	Postsecondary nondegree award	None	None
Home health aides	31-1011	High school diploma or equivalent	None	Short-term on-the-job training
Psychiatric aides	31-1013	High school diploma or equivalent	None	Short-term on-the-job training
Nursing assistants	31-1014	Postsecondary nondegree award	None	None
Orderlies	31-1015	High school diploma or equivalent	None	Short-term on-the-job training
Occupational therapy assistants	31-2011	Associate's degree	None	None
Occupational therapy aides	31-2012	High school diploma or equivalent	None	Short-term on-the-job training
Physical therapist assistants	31-2021	Associate's degree	None	None
Physical therapist aides	31-2022	High school diploma or equivalent	None	Short-term on-the-job training
Massage therapists	31-9011	Postsecondary nondegree award	None	None
Dental assistants	31-9091	Postsecondary nondegree award	None	None
Medical assistants	31-9092	Postsecondary nondegree award	None	None
Medical equipment preparers	31-9093	High school diploma or equivalent	None	Moderate-term on-the-job training
Medical transcriptionists	31-9094	Postsecondary nondegree award	None	None
Pharmacy aides	31-9095	High school diploma or equivalent	None	Short-term on-the-job training
Veterinary assistants and laboratory animal caretakers	31-9096	High school diploma or equivalent	None	Short-term on-the-job training
Phlebotomists	31-9097	Postsecondary nondegree award	None	None
Healthcare support workers, all other	31-9099	High school diploma or equivalent	None	None
First-line supervisors of correctional officers	33-1011	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of police and detectives	33-1012	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
First-line supervisors of fire fighting and prevention work	33-1021	Postsecondary nondegree award	Less than 5 years	Moderate-term on-the-job training
First-line supervisors of protective service workers, all other	33-1099	High school diploma or equivalent	Less than 5 years	None
Firefighters	33-2011	Postsecondary nondegree award	None	Long-term on-the-job training
Fire inspectors and investigators	33-2021	Postsecondary nondegree award	5 years or more	Moderate-term on-the-job training
Forest fire inspectors and prevention specialists	33-2022	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Bailiffs	33-3011	High school diploma or equivalent	None	Moderate-term on-the-job training
Correctional officers and jailers	33-3012	High school diploma or equivalent	None	Moderate-term on-the-job training
Detectives and criminal investigators	33-3021	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Fish and game wardens	33-3031	Bachelor's degree	None	Moderate-term on-the-job training
Parking enforcement workers	33-3041	High school diploma or equivalent	None	Short-term on-the-job training
Police and sheriff's patrol officers	33-3051	High school diploma or equivalent	None	Moderate-term on-the-job training
Transit and railroad police	33-3052	High school diploma or equivalent	None	Moderate-term on-the-job training
Animal control workers	33-9011	High school diploma or equivalent	None	Moderate-term on-the-job training
Private detectives and investigators	33-9021	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Gaming surveillance officers and gaming investigators	33-9031	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Security guards	33-9032	High school diploma or equivalent	None	Short-term on-the-job training
Crossing guards	33-9091	No formal educational credential	None	Short-term on-the-job training
Lifeguards, ski patrol, and other recreational protective service workers	33-9092	No formal educational credential	None	Short-term on-the-job training
Transportation security screeners	33-9093	High school diploma or equivalent	None	Short-term on-the-job training
Protective service workers, all other	33-9099	High school diploma or equivalent	None	Short-term on-the-job training
Chefs and head cooks	35-1011	High school diploma or equivalent	5 years or more	None
First-line supervisors of food preparation and serving workers, fast food	35-1012	High school diploma or equivalent	Less than 5 years	None
Cooks, fast food	35-2011	No formal educational credential	None	Short-term on-the-job training
Cooks, institution and cafeteria	35-2012	No formal educational credential	None	Short-term on-the-job training
Cooks, private household	35-2013	Postsecondary nondegree award	Less than 5 years	None
Cooks, restaurant	35-2014	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
Cooks, short order	35-2015	No formal educational credential	None	Short-term on-the-job training
Cooks, all other	35-2019	No formal educational credential	None	Moderate-term on-the-job training
Food preparation workers	35-2021	No formal educational credential	None	Short-term on-the-job training
Bartenders	35-3011	No formal educational credential	None	Short-term on-the-job training
Combined food preparation and serving workers, including fast food	35-3021	No formal educational credential	None	Short-term on-the-job training
Counter attendants, cafeteria, food concession, and food service workers, all other	35-3022	No formal educational credential	None	Short-term on-the-job training
Waiters and waitresses	35-3031	No formal educational credential	None	Short-term on-the-job training
Food servers, nonrestaurant	35-3041	No formal educational credential	None	Short-term on-the-job training
Dining room and cafeteria attendants and bartender helpers	35-9011	No formal educational credential	None	Short-term on-the-job training
Dishwashers	35-9021	No formal educational credential	None	Short-term on-the-job training
Hosts and hostesses, restaurant, lounge, and coffee shop	35-9031	No formal educational credential	None	Short-term on-the-job training
Food preparation and serving related workers, all other	35-9099	No formal educational credential	None	Short-term on-the-job training
First-line supervisors of housekeeping and janitorial work	37-1011	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of landscaping, lawn service, and maintenance workers	37-1012	High school diploma or equivalent	Less than 5 years	None
Janitors and cleaners, except maids and housekeeping	37-2011	No formal educational credential	None	Short-term on-the-job training
Maids and housekeeping cleaners	37-2012	No formal educational credential	None	Short-term on-the-job training
Building cleaning workers, all other	37-2019	No formal educational credential	None	Short-term on-the-job training
Pest control workers	37-2021	High school diploma or equivalent	None	Moderate-term on-the-job training
Landscaping and groundskeeping workers	37-3011	No formal educational credential	None	Short-term on-the-job training
Pesticide handlers, sprayers, and applicators, vegetable and other crop, nursery, and greenhouse	37-3012	High school diploma or equivalent	None	Moderate-term on-the-job training
Tree trimmers and pruners	37-3013	High school diploma or equivalent	None	Short-term on-the-job training
Grounds maintenance workers, all other	37-3019	No formal educational credential	None	Short-term on-the-job training
Gaming supervisors	39-1011	High school diploma or equivalent	Less than 5 years	None
Slot supervisors	39-1012	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of personal service workers	39-1021	High school diploma or equivalent	Less than 5 years	None
Animal trainers	39-2011	High school diploma or equivalent	None	Moderate-term on-the-job training
Nonfarm animal caretakers	39-2021	High school diploma or equivalent	None	Short-term on-the-job training
Gaming dealers	39-3011	High school diploma or equivalent	None	Short-term on-the-job training
Gaming and sports book writers and runners	39-3012	High school diploma or equivalent	None	Short-term on-the-job training
Gaming service workers, all other	39-3019	High school diploma or equivalent	None	Short-term on-the-job training
Motion picture projectionists	39-3021	No formal educational credential	None	Short-term on-the-job training
Ushers, lobby attendants, and ticket takers	39-3031	No formal educational credential	None	Short-term on-the-job training
Amusement and recreation attendants	39-3091	No formal educational credential	None	Short-term on-the-job training
Costume attendants	39-3092	High school diploma or equivalent	None	Short-term on-the-job training
Locker room, coatroom, and dressing room attendants	39-3093	High school diploma or equivalent	None	Short-term on-the-job training
Entertainment attendants and related workers, all other	39-3099	High school diploma or equivalent	None	Short-term on-the-job training
Embalmers	39-4011	Associate's degree	None	Long-term on-the-job training
Funeral attendants	39-4021	High school diploma or equivalent	None	Short-term on-the-job training
Morticians, undertakers, and funeral directors	39-4031	Associate's degree	None	Long-term on-the-job training
Barbers	39-5011	Postsecondary nondegree award	None	None
Hairdressers, hairstylists, and cosmetologists	39-5012	Postsecondary nondegree award	None	None
Makeup artists, theatrical and performance	39-5091	Postsecondary nondegree award	None	None
Manicurists and pedicurists	39-5092	Postsecondary nondegree award	None	None
Shampoos	39-5093	No formal educational credential	None	Short-term on-the-job training
Skincare specialists	39-5094	Postsecondary nondegree award	None	None
Baggage porters and bellhops	39-6011	High school diploma or equivalent	None	Short-term on-the-job training
Concierges	39-6012	High school diploma or equivalent	None	Moderate-term on-the-job training
Tour guides and escorts	39-7011	High school diploma or equivalent	None	Moderate-term on-the-job training
Travel guides	39-7012	High school diploma or equivalent	None	Moderate-term on-the-job training
Childcare workers	39-9011	High school diploma or equivalent	None	Short-term on-the-job training
Personal care aides	39-9021	High school diploma or equivalent	None	Short-term on-the-job training
Fitness trainers and aerobics instructors	39-9031	High school diploma or equivalent	None	Short-term on-the-job training
Recreation workers	39-9032	High school diploma or equivalent	None	Short-term on-the-job training
Residential advisors	39-9041	High school diploma or equivalent	None	Short-term on-the-job training
Personal care and service workers, all other	39-9099	High school diploma or equivalent	None	Short-term on-the-job training
First-line supervisors of retail sales workers	41-1011	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of non-retail sales workers	41-1012	High school diploma or equivalent	Less than 5 years	None
Cashiers	41-2011	No formal educational credential	None	Short-term on-the-job training
Gaming change persons and booth cashiers	41-2012	No formal educational credential	None	Short-term on-the-job training
Counter and rental clerks	41-2021	No formal educational credential	None	Short-term on-the-job training
Parts salespersons	41-2022	No formal educational credential	None	Moderate-term on-the-job training
Retail salespersons	41-2031	No formal educational credential	None	Short-term on-the-job training
Advertising sales agents	41-3011	High school diploma or equivalent	None	Moderate-term on-the-job training
Insurance sales agents	41-3021	High school diploma or equivalent	None	Moderate-term on-the-job training
Securities, commodities, and financial services sales agents	41-3031	Bachelor's degree	None	Moderate-term on-the-job training
Travel agents	41-3041	High school diploma or equivalent	None	Moderate-term on-the-job training
Sales representatives, services, all other	41-3099	High school diploma or equivalent	None	Moderate-term on-the-job training



Sales representatives, wholesale and manufacturing, 41-4011	Bachelor's degree	None	Moderate-term on-the-job training	
Sales representatives, wholesale and manufacturing, 41-4012	High school diploma or equivalent	None	Moderate-term on-the-job training	
Demonstrators and product promoters	41-9011	No formal educational credential	None	Short-term on-the-job training
Models	41-9012	No formal educational credential	None	None
Real estate brokers	41-9021	High school diploma or equivalent	Less than 5 years	None
Real estate sales agents	41-9022	High school diploma or equivalent	None	Moderate-term on-the-job training
Sales engineers	41-9031	Bachelor's degree	None	Moderate-term on-the-job training
Telemarketers	41-9041	No formal educational credential	None	Short-term on-the-job training
Door-to-door sales workers, news and street vendors, sales and related workers, all other	41-9099	No formal educational credential	None	Short-term on-the-job training
First-line supervisors of office and administrative support workers, all other	43-1011	High school diploma or equivalent	Less than 5 years	None
Switchboard operators, including answering service	43-2011	High school diploma or equivalent	None	Short-term on-the-job training
Telephone operators	43-2021	High school diploma or equivalent	None	Short-term on-the-job training
Communications equipment operators, all other	43-2099	High school diploma or equivalent	None	Short-term on-the-job training
Bill and account collectors	43-3011	High school diploma or equivalent	None	Moderate-term on-the-job training
Billing and posting clerks	43-3021	High school diploma or equivalent	None	Moderate-term on-the-job training
Bookkeeping, accounting, and auditing clerks	43-3031	Some college, no degree	None	Moderate-term on-the-job training
Gaming cage workers	43-3041	High school diploma or equivalent	None	Short-term on-the-job training
Payroll and timekeeping clerks	43-3051	High school diploma or equivalent	None	Moderate-term on-the-job training
Procurement clerks	43-3061	High school diploma or equivalent	None	Moderate-term on-the-job training
Tellers	43-3071	High school diploma or equivalent	None	Short-term on-the-job training
Financial clerks, all other	43-3099	High school diploma or equivalent	None	Short-term on-the-job training
Brokerage clerks	43-4011	High school diploma or equivalent	None	Moderate-term on-the-job training
Correspondence clerks	43-4021	High school diploma or equivalent	None	Short-term on-the-job training
Court, municipal, and license clerks	43-4031	High school diploma or equivalent	None	Moderate-term on-the-job training
Credit authorizers, checkers, and clerks	43-4041	High school diploma or equivalent	None	Moderate-term on-the-job training
Customer service representatives	43-4051	High school diploma or equivalent	None	Short-term on-the-job training
Eligibility interviewers, government programs	43-4061	High school diploma or equivalent	None	Moderate-term on-the-job training
File clerks	43-4071	High school diploma or equivalent	None	Short-term on-the-job training
Hotel, motel, and resort desk clerks	43-4081	High school diploma or equivalent	None	Short-term on-the-job training
Interviewers, except eligibility and loan	43-4111	High school diploma or equivalent	None	Short-term on-the-job training
Library assistants, clerical	43-4121	High school diploma or equivalent	None	Short-term on-the-job training
Loan interviewers and clerks	43-4131	High school diploma or equivalent	None	Short-term on-the-job training
New accounts clerks	43-4141	High school diploma or equivalent	None	Moderate-term on-the-job training
Order clerks	43-4151	High school diploma or equivalent	None	Short-term on-the-job training
Human resources assistants, except payroll and timekeeping	43-4161	Associate's degree	None	None
Receptionists and information clerks	43-4171	High school diploma or equivalent	None	Short-term on-the-job training
Reservation and transportation ticket agents and travel agents	43-4181	High school diploma or equivalent	None	Short-term on-the-job training
Information and record clerks, all other	43-4199	High school diploma or equivalent	None	Short-term on-the-job training
Cargo and freight agents	43-5011	High school diploma or equivalent	None	Short-term on-the-job training
Couriers and messengers	43-5021	High school diploma or equivalent	None	Short-term on-the-job training
Police, fire, and ambulance dispatchers	43-5031	High school diploma or equivalent	None	Moderate-term on-the-job training
Dispatchers, except police, fire, and ambulance	43-5032	High school diploma or equivalent	None	Moderate-term on-the-job training
Meter readers, utilities	43-5041	High school diploma or equivalent	None	Short-term on-the-job training
Postal service clerks	43-5051	High school diploma or equivalent	None	Short-term on-the-job training
Postal service mail carriers	43-5052	High school diploma or equivalent	None	Short-term on-the-job training
Postal service mail sorters, processors, and processing clerks	43-5053	High school diploma or equivalent	None	Short-term on-the-job training
Production, planning, and expediting clerks	43-5061	High school diploma or equivalent	None	Moderate-term on-the-job training
Shipping, receiving, and traffic clerks	43-5071	High school diploma or equivalent	None	Short-term on-the-job training
Stock clerks and order fillers	43-5081	High school diploma or equivalent	None	Short-term on-the-job training
Weighers, measurers, checkers, and samplers, recording clerks	43-5111	High school diploma or equivalent	None	Short-term on-the-job training
Executive secretaries and executive administrative assistants	43-6011	High school diploma or equivalent	Less than 5 years	None
Legal secretaries	43-6012	High school diploma or equivalent	None	Moderate-term on-the-job training
Medical secretaries	43-6013	High school diploma or equivalent	None	Moderate-term on-the-job training
Secretaries and administrative assistants, except legal, medical, and executive	43-6014	High school diploma or equivalent	None	Short-term on-the-job training
Computer operators	43-9011	High school diploma or equivalent	None	Moderate-term on-the-job training
Data entry keyers	43-9021	High school diploma or equivalent	None	Short-term on-the-job training
Word processors and typists	43-9022	High school diploma or equivalent	None	Short-term on-the-job training
Desktop publishers	43-9031	Associate's degree	None	Short-term on-the-job training
Insurance claims and policy processing clerks	43-9041	High school diploma or equivalent	None	Moderate-term on-the-job training
Mail clerks and mail machine operators, except postal workers	43-9051	High school diploma or equivalent	None	Short-term on-the-job training
Office clerks, general	43-9061	High school diploma or equivalent	None	Short-term on-the-job training
Office machine operators, except computer operators	43-9071	High school diploma or equivalent	None	Short-term on-the-job training
Proofreaders and copy markers	43-9081	Bachelor's degree	None	None
Statistical assistants	43-9111	Bachelor's degree	None	None
Office and administrative support workers, all other	43-9199	High school diploma or equivalent	None	Short-term on-the-job training
First-line supervisors of farming, fishing, and forestry workers, all other	45-1011	High school diploma or equivalent	Less than 5 years	None
Agricultural inspectors	45-2011	Bachelor's degree	None	Moderate-term on-the-job training
Animal breeders	45-2021	High school diploma or equivalent	None	Short-term on-the-job training
Graders and sorters, agricultural products	45-2041	No formal educational credential	None	Short-term on-the-job training
Agricultural equipment operators	45-2091	No formal educational credential	None	Moderate-term on-the-job training
Farmworkers and laborers, crop, nursery, and greenhouse	45-2092	No formal educational credential	None	Short-term on-the-job training
Farmworkers, farm, ranch, and aquacultural animals	45-2093	No formal educational credential	None	Short-term on-the-job training
Agricultural workers, all other	45-2099	No formal educational credential	None	Short-term on-the-job training
Fishing and hunting workers	45-3000	No formal educational credential	None	Moderate-term on-the-job training
Forest and conservation workers	45-4011	High school diploma or equivalent	None	Moderate-term on-the-job training
Fallers	45-4021	High school diploma or equivalent	None	Moderate-term on-the-job training
Logging equipment operators	45-4022	High school diploma or equivalent	None	Moderate-term on-the-job training
Log graders and scalers	45-4023	High school diploma or equivalent	None	Moderate-term on-the-job training
Logging workers, all other	45-4029	High school diploma or equivalent	None	Moderate-term on-the-job training
First-line supervisors of construction trades and extraction workers, all other	47-1011	High school diploma or equivalent	5 years or more	None
Boilermakers	47-2011	High school diploma or equivalent	None	Apprenticeship
Brickmasons and blockmasons	47-2021	High school diploma or equivalent	None	Apprenticeship
Stonemasons	47-2022	High school diploma or equivalent	None	Apprenticeship
Carpenters	47-2031	High school diploma or equivalent	None	Apprenticeship
Carpet installers	47-2041	No formal educational credential	None	Short-term on-the-job training
Floor layers, except carpet, wood, and hard tiles	47-2042	No formal educational credential	None	Moderate-term on-the-job training
Floor sanders and finishers	47-2043	No formal educational credential	None	Moderate-term on-the-job training
Tile and marble setters	47-2044	No formal educational credential	None	Long-term on-the-job training
Cement masons and concrete finishers	47-2051	No formal educational credential	None	Moderate-term on-the-job training
Terrazzo workers and finishers	47-2053	High school diploma or equivalent	None	Apprenticeship
Construction laborers	47-2061	No formal educational credential	None	Short-term on-the-job training
Paving, surfacing, and tamping equipment operators	47-2071	High school diploma or equivalent	None	Moderate-term on-the-job training
Pile-driver operators	47-2072	High school diploma or equivalent	None	Moderate-term on-the-job training
Operating engineers and other construction equipment operators	47-2073	High school diploma or equivalent	None	Moderate-term on-the-job training
Drywall and ceiling tile installers	47-2081	No formal educational credential	None	Moderate-term on-the-job training
Tapers	47-2082	No formal educational credential	None	Moderate-term on-the-job training
Electricians	47-2111	High school diploma or equivalent	None	Apprenticeship
Glaziers	47-2121	High school diploma or equivalent	None	Apprenticeship
Insulation workers, floor, ceiling, and wall	47-2131	No formal educational credential	None	Short-term on-the-job training
Insulation workers, mechanical	47-2132	High school diploma or equivalent	None	Apprenticeship
Painters, construction and maintenance	47-2141	No formal educational credential	None	Moderate-term on-the-job training
Paperhangers	47-2142	No formal educational credential	None	Long-term on-the-job training
Pipelayers	47-2151	No formal educational credential	None	Short-term on-the-job training
Plumbers, pipefitters, and steamfitters	47-2152	High school diploma or equivalent	None	Apprenticeship
Plasterers and stucco masons	47-2161	No formal educational credential	None	Long-term on-the-job training
Reinforcing iron and rebar workers	47-2171	High school diploma or equivalent	None	Apprenticeship
Roofers	47-2181	No formal educational credential	None	Moderate-term on-the-job training
Sheet metal workers	47-2211	High school diploma or equivalent	None	Apprenticeship
Structural iron and steel workers	47-2221	High school diploma or equivalent	None	Apprenticeship
Solar photovoltaic installers	47-2231	High school diploma or equivalent	None	Moderate-term on-the-job training
Helpers—brickmasons, blockmasons, stonemasons, and carpenters	47-3011	No formal educational credential	None	Short-term on-the-job training
Helpers—carpenters	47-3012	No formal educational credential	None	Short-term on-the-job training
Helpers—electricians	47-3013	High school diploma or equivalent	None	Short-term on-the-job training
Helpers—painters, paperhangers, plasterers, and stucco masons	47-3014	No formal educational credential	None	Short-term on-the-job training
Helpers—pipelayers, plumbers, pipefitters, and steamfitters	47-3015	High school diploma or equivalent	None	Short-term on-the-job training
Helpers—roofers	47-3016	No formal educational credential	None	Short-term on-the-job training
Helpers, construction trades, all other	47-3019	No formal educational credential	None	Short-term on-the-job training

Construction and building inspectors	47-4011	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
Elevator installers and repairers	47-4021	High school diploma or equivalent	None	Apprenticeship
Fence erectors	47-4031	No formal educational credential	None	Moderate-term on-the-job training
Hazardous materials removal workers	47-4041	High school diploma or equivalent	None	Moderate-term on-the-job training
Highway maintenance workers	47-4051	High school diploma or equivalent	None	Moderate-term on-the-job training
Rail-track laying and maintenance equipment operator	47-4061	High school diploma or equivalent	None	Moderate-term on-the-job training
Septic tank servicers and sewer pipe cleaners	47-4071	High school diploma or equivalent	None	Moderate-term on-the-job training
Segmental pavers	47-4091	High school diploma or equivalent	None	Moderate-term on-the-job training
Construction and related workers, all other	47-4099	High school diploma or equivalent	None	Moderate-term on-the-job training
Derrick operators, oil and gas	47-5011	No formal educational credential	None	Short-term on-the-job training
Rotary drill operators, oil and gas	47-5012	No formal educational credential	None	Moderate-term on-the-job training
Service unit operators, oil, gas, and mining	47-5013	No formal educational credential	None	Moderate-term on-the-job training
Earth drillers, except oil and gas	47-5021	High school diploma or equivalent	None	Moderate-term on-the-job training
Explosives workers, ordnance handling experts, and blasting workers	47-5031	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
Continuous mining machine operators	47-5041	No formal educational credential	None	Moderate-term on-the-job training
Mine cutting and channeling machine operators	47-5042	High school diploma or equivalent	None	Moderate-term on-the-job training
Mining machine operators, all other	47-5049	High school diploma or equivalent	None	Moderate-term on-the-job training
Rock splitters, quarry	47-5051	No formal educational credential	None	Short-term on-the-job training
Roof bolters, mining	47-5061	High school diploma or equivalent	None	Moderate-term on-the-job training
Roustabouts, oil and gas	47-5071	No formal educational credential	None	Moderate-term on-the-job training
Helpers—extraction workers	47-5081	High school diploma or equivalent	None	Moderate-term on-the-job training
Extraction workers, all other	47-5099	High school diploma or equivalent	None	Moderate-term on-the-job training
First-line supervisors of mechanics, installers, and repairers	49-1011	High school diploma or equivalent	Less than 5 years	None
Computer, automated teller, and office machine repairers	49-2011	Some college, no degree	None	Short-term on-the-job training
Radio, cellular, and tower equipment installers and repairers	49-2021	Associate's degree	None	Moderate-term on-the-job training
Telecommunications equipment installers and repairers	49-2022	Postsecondary nondegree award	None	Moderate-term on-the-job training
Avionics technicians	49-2091	Associate's degree	None	None
Electric motor, power tool, and related repairers	49-2092	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Electrical and electronics installers and repairers, transit and communications	49-2093	Postsecondary nondegree award	None	Long-term on-the-job training
Electrical and electronics repairers, commercial and industrial	49-2094	Postsecondary nondegree award	None	Long-term on-the-job training
Electrical and electronics repairers, powerhouse, substations, and transmission	49-2095	Postsecondary nondegree award	Less than 5 years	Moderate-term on-the-job training
Electronic equipment installers and repairers, motor vehicles and mobile equipment	49-2096	High school diploma or equivalent	None	Moderate-term on-the-job training
Electronic home entertainment equipment installers and repairers	49-2097	Postsecondary nondegree award	None	Short-term on-the-job training
Security and fire alarm systems installers	49-2098	High school diploma or equivalent	None	Moderate-term on-the-job training
Aircraft mechanics and service technicians	49-3011	Postsecondary nondegree award	None	None
Automotive body and related repairers	49-3021	High school diploma or equivalent	None	Long-term on-the-job training
Automotive glass installers and repairers	49-3022	High school diploma or equivalent	None	Moderate-term on-the-job training
Automotive service technicians and mechanics	49-3023	Postsecondary nondegree award	None	Short-term on-the-job training
Bus and truck mechanics and diesel engine specialists	49-3031	High school diploma or equivalent	None	Long-term on-the-job training
Farm equipment mechanics and service technicians	49-3041	High school diploma or equivalent	None	Long-term on-the-job training
Mobile heavy equipment mechanics, except engines	49-3042	High school diploma or equivalent	None	Long-term on-the-job training
Rail car repairers	49-3043	High school diploma or equivalent	None	Long-term on-the-job training
Motorboat mechanics and service technicians	49-3051	High school diploma or equivalent	None	Long-term on-the-job training
Motorcycle mechanics	49-3052	Postsecondary nondegree award	None	Short-term on-the-job training
Outdoor power equipment and other small engine mechanics	49-3053	High school diploma or equivalent	None	Moderate-term on-the-job training
Bicycle repairers	49-3091	High school diploma or equivalent	None	Moderate-term on-the-job training
Recreational vehicle service technicians	49-3092	High school diploma or equivalent	None	Long-term on-the-job training
Tire repairers and changers	49-3093	High school diploma or equivalent	None	Short-term on-the-job training
Mechanical door repairers	49-9011	High school diploma or equivalent	None	Moderate-term on-the-job training
Control and valve installers and repairers, except mechanical	49-9012	High school diploma or equivalent	None	Moderate-term on-the-job training
Heating, air conditioning, and refrigeration mechanics	49-9021	Postsecondary nondegree award	None	Long-term on-the-job training
Home appliance repairers	49-9031	High school diploma or equivalent	None	Moderate-term on-the-job training
Industrial machinery mechanics	49-9041	High school diploma or equivalent	None	Long-term on-the-job training
Maintenance workers, machinery	49-9043	High school diploma or equivalent	None	Long-term on-the-job training
Millwrights	49-9044	High school diploma or equivalent	None	Apprenticeship
Refractory materials repairers, except brickmasons	49-9045	High school diploma or equivalent	None	Moderate-term on-the-job training
Electrical power-line installers and repairers	49-9051	High school diploma or equivalent	None	Long-term on-the-job training
Telecommunications line installers and repairers	49-9052	High school diploma or equivalent	None	Long-term on-the-job training
Camera and photographic equipment repairers	49-9061	High school diploma or equivalent	None	Long-term on-the-job training
Medical equipment repairers	49-9062	Associate's degree	None	Moderate-term on-the-job training
Musical instrument repairers and tuners	49-9063	High school diploma or equivalent	None	Apprenticeship
Watch repairers	49-9064	High school diploma or equivalent	None	Long-term on-the-job training
Precision instrument and equipment repairers, all other	49-9069	High school diploma or equivalent	None	Long-term on-the-job training
Maintenance and repair workers, general	49-9071	High school diploma or equivalent	None	Moderate-term on-the-job training
Wind turbine service technicians	49-9081	Postsecondary nondegree award	None	Long-term on-the-job training
Coin, vending, and amusement machine servicers and commercial divers	49-9091	High school diploma or equivalent	None	Short-term on-the-job training
Commercial divers	49-9092	Postsecondary nondegree award	None	Moderate-term on-the-job training
Fabric menders, except garment	49-9093	High school diploma or equivalent	None	Long-term on-the-job training
Locksmiths and safe repairers	49-9094	High school diploma or equivalent	None	Long-term on-the-job training
Manufactured building and mobile home installers	49-9095	High school diploma or equivalent	None	Short-term on-the-job training
Riggers	49-9096	High school diploma or equivalent	None	Moderate-term on-the-job training
Signal and track switch repairers	49-9097	High school diploma or equivalent	None	Moderate-term on-the-job training
Helpers—installation, maintenance, and repair workers	49-9098	High school diploma or equivalent	None	Short-term on-the-job training
Installation, maintenance, and repair workers, all other	49-9099	High school diploma or equivalent	None	Moderate-term on-the-job training
First-line supervisors of production and operating workers	51-1011	High school diploma or equivalent	Less than 5 years	None
Aircraft structure, surfaces, rigging, and systems assemblers	51-2011	High school diploma or equivalent	None	Moderate-term on-the-job training
Coil winders, tapers, and finishers	51-2021	High school diploma or equivalent	None	Moderate-term on-the-job training
Electrical and electronic equipment assemblers	51-2022	High school diploma or equivalent	None	Moderate-term on-the-job training
Electromechanical equipment assemblers	51-2023	High school diploma or equivalent	None	Moderate-term on-the-job training
Engine and other machine assemblers	51-2031	High school diploma or equivalent	None	Moderate-term on-the-job training
Structural metal fabricators and fitters	51-2041	High school diploma or equivalent	None	Moderate-term on-the-job training
Fiberglass laminators and fabricators	51-2091	High school diploma or equivalent	None	Moderate-term on-the-job training
Team assemblers	51-2092	High school diploma or equivalent	None	Moderate-term on-the-job training
Timing device assemblers and adjusters	51-2093	High school diploma or equivalent	None	Moderate-term on-the-job training
Assemblers and fabricators, all other	51-2099	High school diploma or equivalent	None	Moderate-term on-the-job training
Bakers	51-3011	No formal educational credential	None	Long-term on-the-job training
Butchers and meat cutters	51-3021	No formal educational credential	None	Long-term on-the-job training
Meat, poultry, and fish cutters and trimmers	51-3022	No formal educational credential	None	Short-term on-the-job training
Slaughterers and meat packers	51-3023	No formal educational credential	None	Short-term on-the-job training
Food and tobacco roasting, baking, and drying machine operators	51-3091	No formal educational credential	None	Moderate-term on-the-job training
Food batchmakers	51-3092	High school diploma or equivalent	None	Moderate-term on-the-job training
Food cooking machine operators and tenders	51-3093	High school diploma or equivalent	None	Moderate-term on-the-job training
Food processing workers, all other	51-3099	No formal educational credential	None	Moderate-term on-the-job training
Computer-controlled machine tool operators, metal and plastic	51-4011	High school diploma or equivalent	None	Moderate-term on-the-job training
Computer numerically controlled machine tool programmers	51-4012	Postsecondary nondegree award	None	Moderate-term on-the-job training
Extruding and drawing machine setters, operators, and tenders, metal and plastic	51-4021	High school diploma or equivalent	None	Moderate-term on-the-job training
Forging machine setters, operators, and tenders, metal and plastic	51-4022	High school diploma or equivalent	None	Moderate-term on-the-job training
Rolling machine setters, operators, and tenders, metal and plastic	51-4023	High school diploma or equivalent	None	Moderate-term on-the-job training
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	51-4031	High school diploma or equivalent	None	Moderate-term on-the-job training
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	51-4032	High school diploma or equivalent	None	Moderate-term on-the-job training
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	51-4033	High school diploma or equivalent	None	Moderate-term on-the-job training
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	51-4034	High school diploma or equivalent	None	Moderate-term on-the-job training
Milling and planing machine setters, operators, and tenders, metal and plastic	51-4035	High school diploma or equivalent	None	Moderate-term on-the-job training
Machinists	51-4041	High school diploma or equivalent	None	Long-term on-the-job training
Metal-refining furnace operators and tenders	51-4051	High school diploma or equivalent	None	Moderate-term on-the-job training
Pourers and casters, metal	51-4052	High school diploma or equivalent	None	Moderate-term on-the-job training
Model makers, metal and plastic	51-4061	High school diploma or equivalent	None	Moderate-term on-the-job training
Patternmakers, metal and plastic	51-4062	High school diploma or equivalent	None	Moderate-term on-the-job training
Foundry mold and coremakers	51-4071	High school diploma or equivalent	None	Moderate-term on-the-job training
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	51-4072	High school diploma or equivalent	None	Moderate-term on-the-job training
Multiple machine tool setters, operators, and tenders, metal and plastic	51-4081	High school diploma or equivalent	None	Moderate-term on-the-job training
Tool and die makers	51-4111	Postsecondary nondegree award	None	Long-term on-the-job training
Welders, cutters, solderers, and brazers	51-4121	High school diploma or equivalent	None	Moderate-term on-the-job training
Welding, soldering, and brazing machine setters, operators, and tenders, metal and plastic	51-4122	High school diploma or equivalent	None	Moderate-term on-the-job training
Heat treating equipment setters, operators, and tenders, metal and plastic	51-4191	High school diploma or equivalent	None	Moderate-term on-the-job training
Layout workers, metal and plastic	51-4192	High school diploma or equivalent	None	Moderate-term on-the-job training
Plating and coating machine setters, operators, and tenders, metal and plastic	51-4193	High school diploma or equivalent	None	Moderate-term on-the-job training
Tool grinders, filers, and sharpeners	51-4194	High school diploma or equivalent	None	Moderate-term on-the-job training

Metal workers and plastic workers, all other	51-4199	High school diploma or equivalent	None	Moderate-term on-the-job training
Prepress technicians and workers	51-5111	Postsecondary nondegree award	None	None
Printing press operators	51-5112	High school diploma or equivalent	None	Moderate-term on-the-job training
Print binding and finishing workers	51-5113	High school diploma or equivalent	None	Moderate-term on-the-job training
Laundry and dry-cleaning workers	51-6011	No formal educational credential	None	Short-term on-the-job training
Pressers, textile, garment, and related materials	51-6021	No formal educational credential	None	Short-term on-the-job training
Sewing machine operators	51-6031	No formal educational credential	None	Short-term on-the-job training
Shoe and leather workers and repairers	51-6041	High school diploma or equivalent	None	Moderate-term on-the-job training
Shoe machine operators and tenders	51-6042	High school diploma or equivalent	None	Short-term on-the-job training
Sewers, hand	51-6051	No formal educational credential	None	Moderate-term on-the-job training
Tailors, dressmakers, and custom sewers	51-6052	No formal educational credential	None	Moderate-term on-the-job training
Textile bleaching and dyeing machine operators and tenders	51-6061	High school diploma or equivalent	None	Short-term on-the-job training
Textile cutting machine setters, operators, and tenders	51-6062	High school diploma or equivalent	None	Moderate-term on-the-job training
Textile knitting and weaving machine setters, operators, and tenders	51-6063	High school diploma or equivalent	None	Short-term on-the-job training
Textile winding, twisting, and drawing out machine setters, operators, and tenders	51-6064	High school diploma or equivalent	None	Moderate-term on-the-job training
Extruding and forming machine setters, operators, and tenders	51-6091	High school diploma or equivalent	None	Moderate-term on-the-job training
Fabric and apparel patternmakers	51-6092	High school diploma or equivalent	None	Moderate-term on-the-job training
Upholsterers	51-6093	High school diploma or equivalent	None	Moderate-term on-the-job training
Textile, apparel, and furnishings workers, all other	51-6099	High school diploma or equivalent	None	Short-term on-the-job training
Cabinetmakers and bench carpenters	51-7011	High school diploma or equivalent	None	Moderate-term on-the-job training
Furniture finishers	51-7021	High school diploma or equivalent	None	Short-term on-the-job training
Model makers, wood	51-7031	High school diploma or equivalent	None	Moderate-term on-the-job training
Patternmakers, wood	51-7032	High school diploma or equivalent	None	Moderate-term on-the-job training
Sawing machine setters, operators, and tenders, wood	51-7041	High school diploma or equivalent	None	Moderate-term on-the-job training
Woodworking machine setters, operators, and tenders	51-7042	High school diploma or equivalent	None	Moderate-term on-the-job training
Woodworkers, all other	51-7099	High school diploma or equivalent	None	Moderate-term on-the-job training
Nuclear power reactor operators	51-8011	High school diploma or equivalent	None	Long-term on-the-job training
Power distributors and dispatchers	51-8012	High school diploma or equivalent	None	Long-term on-the-job training
Power plant operators	51-8013	High school diploma or equivalent	None	Long-term on-the-job training
Stationary engineers and boiler operators	51-8021	High school diploma or equivalent	None	Long-term on-the-job training
Water and wastewater treatment plant and system operators	51-8031	High school diploma or equivalent	None	Long-term on-the-job training
Chemical plant and system operators	51-8091	High school diploma or equivalent	None	Moderate-term on-the-job training
Gas plant operators	51-8092	High school diploma or equivalent	None	Long-term on-the-job training
Petroleum pump system operators, refinery operators, and related workers	51-8093	High school diploma or equivalent	None	Moderate-term on-the-job training
Plant and system operators, all other	51-8099	High school diploma or equivalent	None	Moderate-term on-the-job training
Chemical equipment operators and tenders	51-9011	High school diploma or equivalent	None	Moderate-term on-the-job training
Separating, filtering, clarifying, precipitating, and stilling machine operators and tenders	51-9012	High school diploma or equivalent	None	Moderate-term on-the-job training
Crushing, grinding, and polishing machine setters, operators, and tenders	51-9021	High school diploma or equivalent	None	Moderate-term on-the-job training
Grinding and polishing workers, hand	51-9022	No formal educational credential	None	Moderate-term on-the-job training
Mixing and blending machine setters, operators, and tenders	51-9023	High school diploma or equivalent	None	Moderate-term on-the-job training
Cutters and trimmers, hand	51-9031	No formal educational credential	None	Short-term on-the-job training
Cutting and slicing machine setters, operators, and tenders	51-9032	High school diploma or equivalent	None	Moderate-term on-the-job training
Extruding, forming, pressing, and compacting machine operators and tenders	51-9041	High school diploma or equivalent	None	Moderate-term on-the-job training
Furnace, kiln, oven, drier, and kettle operators and tenders	51-9051	High school diploma or equivalent	None	Moderate-term on-the-job training
Inspectors, testers, sorters, samplers, and weighers	51-9061	High school diploma or equivalent	None	Moderate-term on-the-job training
Jewelers and precious stone and metal workers	51-9071	High school diploma or equivalent	None	Long-term on-the-job training
Dental laboratory technicians	51-9081	High school diploma or equivalent	None	Moderate-term on-the-job training
Medical appliance technicians	51-9082	High school diploma or equivalent	None	Moderate-term on-the-job training
Ophthalmic laboratory technicians	51-9083	High school diploma or equivalent	None	Moderate-term on-the-job training
Packaging and filling machine operators and tenders	51-9111	High school diploma or equivalent	None	Moderate-term on-the-job training
Coating, painting, and spraying machine setters, operators, and tenders	51-9121	High school diploma or equivalent	None	Moderate-term on-the-job training
Painters, transportation equipment	51-9122	High school diploma or equivalent	None	Moderate-term on-the-job training
Painting, coating, and decorating workers	51-9123	No formal educational credential	None	Moderate-term on-the-job training
Semiconductor processors	51-9141	High school diploma or equivalent	None	Moderate-term on-the-job training
Photographic process workers and processing machine operators and tenders	51-9151	High school diploma or equivalent	None	Short-term on-the-job training
Adhesive bonding machine operators and tenders	51-9191	High school diploma or equivalent	None	Moderate-term on-the-job training
Cleaning, washing, and metal pickling equipment operators and tenders	51-9192	High school diploma or equivalent	None	Moderate-term on-the-job training
Cooling and freezing equipment operators and tenders	51-9193	High school diploma or equivalent	None	Moderate-term on-the-job training
Etchers and engravers	51-9194	High school diploma or equivalent	None	Moderate-term on-the-job training
Molders, shapers, and casters, except metal and plastic	51-9195	High school diploma or equivalent	None	Long-term on-the-job training
Paper goods machine setters, operators, and tenders	51-9196	High school diploma or equivalent	None	Moderate-term on-the-job training
Tire builders	51-9197	High school diploma or equivalent	None	Moderate-term on-the-job training
Helpers—production workers	51-9198	High school diploma or equivalent	None	Short-term on-the-job training
Production workers, all other	51-9199	High school diploma or equivalent	None	Moderate-term on-the-job training
Aircraft cargo handling supervisors	53-1011	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of helpers, laborers, and material movers, hand	53-1021	High school diploma or equivalent	Less than 5 years	None
First-line supervisors of transportation and material moving workers, all other	53-1031	High school diploma or equivalent	Less than 5 years	None
Airline pilots, copilots, and flight engineers	53-2011	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
Commercial pilots	53-2012	High school diploma or equivalent	None	Moderate-term on-the-job training
Air traffic controllers	53-2021	Associate's degree	None	Long-term on-the-job training
Airfield operations specialists	53-2022	High school diploma or equivalent	None	Long-term on-the-job training
Flight attendants	53-2031	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Ambulance drivers and attendants, except emergency medical technicians	53-3011	High school diploma or equivalent	None	Moderate-term on-the-job training
Bus drivers, transit and intercity	53-3021	High school diploma or equivalent	None	Moderate-term on-the-job training
Bus drivers, school or special client	53-3022	High school diploma or equivalent	None	Short-term on-the-job training
Driver/sales workers	53-3031	High school diploma or equivalent	None	Short-term on-the-job training
Heavy and tractor-trailer truck drivers	53-3032	Postsecondary nondegree award	None	Short-term on-the-job training
Light truck or delivery services drivers	53-3033	High school diploma or equivalent	None	Short-term on-the-job training
Taxi drivers and chauffeurs	53-3041	No formal educational credential	None	Short-term on-the-job training
Motor vehicle operators, all other	53-3099	No formal educational credential	None	Short-term on-the-job training
Locomotive engineers	53-4011	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Locomotive firemen	53-4012	High school diploma or equivalent	None	Moderate-term on-the-job training
Rail yard engineers, dinkie operators, and hostlers	53-4013	High school diploma or equivalent	None	Moderate-term on-the-job training
Railroad brake, signal, and switch operators	53-4021	High school diploma or equivalent	None	Moderate-term on-the-job training
Railroad conductors and yardmasters	53-4031	High school diploma or equivalent	None	Moderate-term on-the-job training
Subway and streetcar operators	53-4041	High school diploma or equivalent	None	Moderate-term on-the-job training
Rail transportation workers, all other	53-4099	High school diploma or equivalent	None	Moderate-term on-the-job training
Sailors and marine oilers	53-5011	No formal educational credential	None	Moderate-term on-the-job training
Captains, mates, and pilots of water vessels	53-5021	Postsecondary nondegree award	Less than 5 years	None
Motorboat operators	53-5022	Postsecondary nondegree award	Less than 5 years	None
Ship engineers	53-5031	Postsecondary nondegree award	Less than 5 years	None
Bridges and lock tenders	53-6011	High school diploma or equivalent	None	Short-term on-the-job training
Parking lot attendants	53-6021	No formal educational credential	None	Short-term on-the-job training
Automotive and watercraft service attendants	53-6031	No formal educational credential	None	Short-term on-the-job training
Traffic technicians	53-6041	High school diploma or equivalent	None	Moderate-term on-the-job training
Transportation inspectors	53-6051	High school diploma or equivalent	None	Moderate-term on-the-job training
Transportation attendants, except flight attendants	53-6061	High school diploma or equivalent	None	Short-term on-the-job training
Transportation workers, all other	53-6099	High school diploma or equivalent	None	Short-term on-the-job training
Conveyor operators and tenders	53-7011	No formal educational credential	None	Short-term on-the-job training
Crane and tower operators	53-7021	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Dredge operators	53-7031	High school diploma or equivalent	None	Moderate-term on-the-job training
Excavating and loading machine and dragline operators	53-7032	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Loading machine operators, underground mining	53-7033	No formal educational credential	None	Short-term on-the-job training
Hoist and winch operators	53-7041	No formal educational credential	None	Short-term on-the-job training
Industrial truck and tractor operators	53-7051	No formal educational credential	None	Short-term on-the-job training
Cleaners of vehicles and equipment	53-7061	No formal educational credential	None	Short-term on-the-job training
Laborers and freight, stock, and material movers, hand	53-7062	No formal educational credential	None	Short-term on-the-job training
Machine feeders and offbearers	53-7063	No formal educational credential	None	Short-term on-the-job training
Packers and packagers, hand	53-7064	No formal educational credential	None	Short-term on-the-job training
Gas compressor and gas pumping station operators	53-7071	High school diploma or equivalent	None	Moderate-term on-the-job training
Pump operators, except wellhead pumps	53-7072	High school diploma or equivalent	None	Moderate-term on-the-job training
Wellhead pumps	53-7073	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
Refuse and recyclable material collectors	53-7081	No formal educational credential	None	Short-term on-the-job training
Mine shuttle car operators	53-7111	No formal educational credential	None	Short-term on-the-job training
Tank car, truck, and ship loaders	53-7121	No formal educational credential	None	Short-term on-the-job training
Material moving workers, all other	53-7199	No formal educational credential	None	Short-term on-the-job training

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

**Table 1.2 Employment by detailed occupation, 2016 and projected 2026 (Numbers in thousands)**

2016 National Employment Matrix title and code		Occupation type	Employment				Change, 2016-26		Occupational openings, projected 2016-26 annual average
			Number		Percent distribution		Number	Percent	
			2016	2026	2016	2026			
Total, all occupations	00-0000	Summary	156,063.8	167,582.3	100.0	100.0	11,518.6	7.4	18,740.3
Management occupations	11-0000	Summary	9,533.1	10,411.5	6.1	6.2	878.3	9.2	851.2
Top executives	11-1000	Summary	2,627.5	2,826.6	1.7	1.7	199.1	7.6	235.3
Chief executives	11-1011	Line item	308.9	298.2	0.2	0.2	-10.7	-3.5	20.1
General and operations managers	11-1021	Line item	2,263.1	2,469.0	1.5	1.5	205.9	9.1	210.8
Legislators	11-1031	Line item	55.5	59.4	0.0	0.0	3.9	7.1	4.4
Advertising, marketing, promotions, public relations, and sales managers	11-2000	Summary	708.6	768.2	0.5	0.5	59.6	8.4	67.8
Advertising and promotions managers	11-2011	Line item	31.3	33.1	0.0	0.0	1.8	5.8	3.4
Marketing and sales managers	11-2020	Summary	603.8	654.0	0.4	0.4	50.2	8.3	57.5
Marketing managers	11-2021	Line item	218.3	240.1	0.1	0.1	21.8	10.0	21.3
Sales managers	11-2022	Line item	385.5	413.9	0.2	0.2	28.4	7.4	36.2
Public relations and fundraising managers	11-2031	Line item	73.5	81.1	0.0	0.0	7.7	10.4	6.9
Operations specialties managers	11-3000	Summary	1,776.1	1,984.8	1.1	1.2	208.6	11.7	160.3
Administrative services managers	11-3011	Line item	281.7	310.1	0.2	0.2	28.4	10.1	26.2
Computer and information systems managers	11-3021	Line item	367.6	411.4	0.2	0.2	43.8	11.9	32.5
Financial managers	11-3031	Line item	580.4	688.8	0.4	0.4	108.4	18.7	56.8
Industrial production managers	11-3051	Line item	170.6	170.3	0.1	0.1	-0.3	-0.2	11.7
Purchasing managers	11-3061	Line item	73.9	78.0	0.0	0.0	4.1	5.6	6.3
Transportation, storage, and distribution managers	11-3071	Line item	115.5	123.3	0.1	0.1	7.7	6.7	9.7
Compensation and benefits managers	11-3111	Line item	15.8	16.6	0.0	0.0	0.8	5.0	1.2
Human resources managers	11-3121	Line item	136.1	148.3	0.1	0.1	12.2	8.9	12.4
Training and development managers	11-3131	Line item	34.5	38.1	0.0	0.0	3.6	10.3	3.5
Other management occupations	11-9000	Summary	4,421.0	4,832.0	2.8	2.9	411.0	9.3	387.8
Farmers, ranchers, and other agricultural managers	11-9013	Line item	1,028.7	1,097.4	0.7	0.7	68.7	6.7	84.8
Construction managers	11-9021	Line item	403.8	449.9	0.3	0.3	46.1	11.4	33.4
Education administrators	11-9030	Summary	531.6	579.9	0.3	0.3	48.2	9.1	45.7
Education administrators, preschool and childcare center/program	11-9031	Line item	61.8	68.3	0.0	0.0	6.5	10.6	5.4
Education administrators, elementary and secondary school	11-9032	Line item	251.3	271.0	0.2	0.2	19.7	7.8	21.2
Education administrators, postsecondary	11-9033	Line item	180.1	198.1	0.1	0.1	18.0	10.0	15.7
Education administrators, all other	11-9039	Line item	38.4	42.4	0.0	0.0	4.0	10.4	3.4
Architectural and engineering managers	11-9041	Line item	180.1	190.0	0.1	0.1	9.9	5.5	13.6
Food service managers	11-9051	Line item	308.7	336.0	0.2	0.2	27.3	8.8	36.7
Funeral service managers	11-9061	Line item	25.7	27.4	0.0	0.0	1.6	6.4	2.0
Gaming managers	11-9071	Line item	4.5	4.6	0.0	0.0	0.1	2.5	0.5
Lodging managers	11-9081	Line item	47.8	50.6	0.0	0.0	2.8	5.9	5.1
Medical and health services managers	11-9111	Line item	352.2	422.0	0.2	0.3	69.8	19.8	36.4
Natural sciences managers	11-9121	Line item	56.7	62.3	0.0	0.0	5.6	9.9	5.2
Postmasters and mail superintendents	11-9131	Line item	14.2	11.2	0.0	0.0	-3.0	-20.9	0.6
Property, real estate, and community association managers	11-9141	Line item	317.3	351.3	0.2	0.2	34.0	10.7	28.4
Social and community service managers	11-9151	Line item	147.3	170.4	0.1	0.1	23.1	15.7	15.8
Emergency management directors	11-9161	Line item	10.1	10.9	0.0	0.0	0.8	7.7	0.9
Managers, all other	11-9199	Line item	992.1	1,068.0	0.6	0.6	75.8	7.6	78.7
Business and financial operations occupations	13-0000	Summary	8,066.8	8,817.3	5.2	5.3	750.4	9.3	814.3
Business operations specialists	13-1000	Summary	5,080.8	5,534.7	3.3	3.3	453.9	8.9	525.0
Agents and business managers of artists, performers, and athletes	13-1011	Line item	19.1	20.0	0.0	0.0	0.9	4.9	2.3
Buyers and purchasing agents	13-1020	Summary	446.5	426.0	0.3	0.3	-20.5	-4.6	38.7

Buyers and purchasing agents, farm products	13-1021	Line item	13.7	12.9	0.0	0.0	-0.8	-5.9	1.4
Wholesale and retail buyers, except farm products	13-1022	Line item	123.3	121.0	0.1	0.1	-2.4	-1.9	13.4
Purchasing agents, except wholesale, retail, and farm products	13-1023	Line item	309.4	292.1	0.2	0.2	-17.3	-5.6	23.8
Claims adjusters, appraisers, examiners, and investigators	13-1030	Summary	328.7	325.1	0.2	0.2	-3.7	-1.1	26.0
Claims adjusters, examiners, and investigators	13-1031	Line item	311.1	306.6	0.2	0.2	-4.5	-1.5	24.5
Insurance appraisers, auto damage	13-1032	Line item	17.6	18.5	0.0	0.0	0.9	4.9	1.5
Compliance officers	13-1041	Line item	288.3	312.0	0.2	0.2	23.7	8.2	25.9
Cost estimators	13-1051	Line item	217.9	240.9	0.1	0.1	23.0	10.6	24.4
Human resources workers	13-1070	Summary	631.8	664.5	0.4	0.4	32.6	5.2	64.7
Human resources specialists	13-1071	Line item	547.8	586.4	0.4	0.3	38.7	7.1	57.6
Farm labor contractors	13-1074	Line item	3.0	3.2	0.0	0.0	0.2	8.0	0.3
Labor relations specialists	13-1075	Line item	81.1	74.8	0.1	0.0	-6.3	-7.8	6.8
Logisticians	13-1081	Line item	148.7	159.0	0.1	0.1	10.3	6.9	15.6
Management analysts	13-1111	Line item	806.4	902.8	0.5	0.5	96.5	12.0	81.3
Meeting, convention, and event planners	13-1121	Line item	116.7	128.5	0.1	0.1	11.8	10.2	15.0
Fundraisers	13-1131	Line item	90.4	103.6	0.1	0.1	13.2	14.6	10.7
Compensation, benefits, and job analysis specialists	13-1141	Line item	84.2	91.3	0.1	0.1	7.2	8.5	7.7
Training and development specialists	13-1151	Line item	282.8	315.3	0.2	0.2	32.5	11.5	31.7
Market research analysts and marketing specialists	13-1161	Line item	595.4	731.4	0.4	0.4	136.0	22.8	76.7
Business operations specialists, all other	13-1199	Line item	1,023.9	1,114.1	0.7	0.7	90.2	8.8	104.2
Financial specialists	13-2000	Summary	2,986.0	3,282.6	1.9	2.0	296.6	9.9	289.4
Accountants and auditors	13-2011	Line item	1,397.7	1,538.0	0.9	0.9	140.3	10.0	141.8
Appraisers and assessors of real estate	13-2021	Line item	80.8	92.4	0.1	0.1	11.6	14.4	6.7
Budget analysts	13-2031	Line item	58.4	62.2	0.0	0.0	3.8	6.5	4.8
Credit analysts	13-2041	Line item	73.8	79.9	0.0	0.0	6.2	8.4	6.8
Financial analysts and advisors	13-2050	Summary	672.0	738.0	0.4	0.4	65.9	9.8	61.9
Financial analysts	13-2051	Line item	296.1	328.2	0.2	0.2	32.1	10.8	29.0
Personal financial advisors	13-2052	Line item	271.9	311.2	0.2	0.2	39.3	14.4	25.4
Insurance underwriters	13-2053	Line item	104.1	98.6	0.1	0.1	-5.4	-5.2	7.5
Financial examiners	13-2061	Line item	52.5	57.6	0.0	0.0	5.1	9.8	4.6
Credit counselors and loan officers	13-2070	Summary	357.0	398.8	0.2	0.2	41.8	11.7	34.3
Credit counselors	13-2071	Line item	38.3	43.7	0.0	0.0	5.3	13.9	3.8
Loan officers	13-2072	Line item	318.6	355.1	0.2	0.2	36.5	11.5	30.5
Tax examiners, collectors and preparers, and revenue agents	13-2080	Summary	158.0	168.0	0.1	0.1	10.0	6.3	15.7
Tax examiners and collectors, and revenue agents	13-2081	Line item	62.1	61.7	0.0	0.0	-0.4	-0.6	4.2
Tax preparers	13-2082	Line item	95.9	106.3	0.1	0.1	10.4	10.8	11.5
Financial specialists, all other	13-2099	Line item	135.9	147.8	0.1	0.1	11.9	8.7	12.9
Computer and mathematical occupations	15-0000	Summary	4,419.0	5,015.3	2.8	3.0	596.3	13.5	365.3
Computer occupations	15-1100	Summary	4,238.4	4,784.5	2.7	2.9	546.1	12.9	347.5
Computer and information research scientists	15-1111	Line item	27.9	33.2	0.0	0.0	5.4	19.2	2.5
Computer and information analysts	15-1120	Summary	700.5	782.0	0.4	0.5	81.5	11.6	55.2
Computer systems analysts	15-1121	Line item	600.5	653.5	0.4	0.4	53.0	8.8	44.8
Information security analysts	15-1122	Line item	100.0	128.5	0.1	0.1	28.4	28.4	10.4
Software developers and programmers	15-1130	Summary	1,714.0	2,012.3	1.1	1.2	298.2	17.4	147.7
Computer programmers	15-1131	Line item	294.9	272.3	0.2	0.2	-22.6	-7.6	15.4
Software developers, applications	15-1132	Line item	831.3	1,084.6	0.5	0.6	253.4	30.5	85.5
Software developers, systems software	15-1133	Line item	425.0	471.0	0.3	0.3	46.1	10.8	32.7
Web developers	15-1134	Line item	162.9	184.2	0.1	0.1	21.3	13.1	14.2
Database and systems administrators and network architects	15-1140	Summary	673.4	721.4	0.4	0.4	48.0	7.1	47.9
Database administrators	15-1141	Line item	119.5	133.2	0.1	0.1	13.7	11.5	9.3
Network and computer systems administrators	15-1142	Line item	391.3	415.2	0.3	0.2	23.9	6.1	27.0
Computer network architects	15-1143	Line item	162.7	173.1	0.1	0.1	10.4	6.4	11.7
Computer support specialists	15-1150	Summary	835.3	922.5	0.5	0.6	87.1	10.4	71.8
Computer user support specialists	15-1151	Line item	636.6	707.6	0.4	0.4	71.1	11.2	55.4

Computer network support specialists	15-1152	Line item	198.8	214.8	0.1	0.1	16.1	8.1	16.5
Computer occupations, all other	15-1199	Line item	287.2	313.1	0.2	0.2	25.9	9.0	22.3
Mathematical science occupations	15-2000	Summary	180.7	230.9	0.1	0.1	50.2	27.8	17.8
Actuaries	15-2011	Line item	23.6	28.9	0.0	0.0	5.3	22.5	2.1
Mathematicians	15-2021	Line item	3.1	4.0	0.0	0.0	0.9	29.4	0.3
Operations research analysts	15-2031	Line item	114.0	145.3	0.1	0.1	31.3	27.4	10.7
Statisticians	15-2041	Line item	37.2	49.6	0.0	0.0	12.4	33.4	4.4
Miscellaneous mathematical science occupations	15-2090	Summary	2.8	3.1	0.0	0.0	0.3	10.0	0.2
Mathematical technicians	15-2091	Line item	0.6	0.6	0.0	0.0	0.0	7.5	0.0
Mathematical science occupations, all other	15-2099	Line item	2.2	2.4	0.0	0.0	0.2	10.7	0.2
Architecture and engineering occupations	17-0000	Summary	2,601.0	2,794.2	1.7	1.7	193.2	7.4	210.0
Architects, surveyors, and cartographers	17-1000	Summary	210.9	225.0	0.1	0.1	14.1	6.7	16.6
Architects, except naval	17-1010	Summary	153.5	160.2	0.1	0.1	6.7	4.3	11.6
Architects, except landscape and naval	17-1011	Line item	128.8	133.9	0.1	0.1	5.1	4.0	9.7
Landscape architects	17-1012	Line item	24.7	26.2	0.0	0.0	1.5	6.2	1.9
Surveyors, cartographers, and photogrammetrists	17-1020	Summary	57.4	64.8	0.0	0.0	7.4	13.0	5.0
Cartographers and photogrammetrists	17-1021	Line item	12.6	15.0	0.0	0.0	2.4	19.4	1.2
Surveyors	17-1022	Line item	44.8	49.8	0.0	0.0	5.0	11.2	3.8
Engineers	17-2000	Summary	1,681.0	1,819.7	1.1	1.1	138.7	8.3	126.6
Aerospace engineers	17-2011	Line item	69.6	73.8	0.0	0.0	4.2	6.1	4.6
Agricultural engineers	17-2021	Line item	2.7	2.9	0.0	0.0	0.2	8.1	0.2
Biomedical engineers	17-2031	Line item	21.3	22.8	0.0	0.0	1.5	7.2	1.6
Chemical engineers	17-2041	Line item	32.7	35.2	0.0	0.0	2.5	7.6	2.4
Civil engineers	17-2051	Line item	303.5	335.7	0.2	0.2	32.1	10.6	25.9
Computer hardware engineers	17-2061	Line item	73.6	77.6	0.0	0.0	4.0	5.5	5.1
Electrical and electronics engineers	17-2070	Summary	324.6	345.8	0.2	0.2	21.2	6.5	23.1
Electrical engineers	17-2071	Line item	188.3	204.5	0.1	0.1	16.2	8.6	13.9
Electronics engineers, except computer	17-2072	Line item	136.3	141.3	0.1	0.1	5.1	3.7	9.2
Environmental engineers	17-2081	Line item	53.8	58.3	0.0	0.0	4.4	8.3	4.0
Industrial engineers, including health and safety	17-2110	Summary	283.8	311.2	0.2	0.2	27.3	9.6	21.6
Health and safety engineers, except mining safety engineers and	17-2111	Line item	25.9	28.1	0.0	0.0	2.2	8.6	1.9
Industrial engineers	17-2112	Line item	257.9	283.0	0.2	0.2	25.1	9.7	19.7
Marine engineers and naval architects	17-2121	Line item	8.2	9.2	0.0	0.0	1.0	11.5	0.6
Materials engineers	17-2131	Line item	27.0	27.5	0.0	0.0	0.4	1.6	1.9
Mechanical engineers	17-2141	Line item	288.8	314.1	0.2	0.2	25.3	8.8	21.2
Mining and geological engineers, including mining safety engineers	17-2151	Line item	7.3	7.9	0.0	0.0	0.5	7.2	0.6
Nuclear engineers	17-2161	Line item	17.7	18.4	0.0	0.0	0.7	3.8	1.4
Petroleum engineers	17-2171	Line item	33.7	38.6	0.0	0.0	4.9	14.5	2.8
Engineers, all other	17-2199	Line item	132.5	140.8	0.1	0.1	8.2	6.2	9.5
Drafters, engineering technicians, and mapping technicians	17-3000	Summary	709.2	749.6	0.5	0.4	40.4	5.7	66.8
Drafters	17-3010	Summary	207.7	222.2	0.1	0.1	14.5	7.0	19.4
Architectural and civil drafters	17-3011	Line item	99.6	107.7	0.1	0.1	8.0	8.1	9.5
Electrical and electronics drafters	17-3012	Line item	27.4	29.2	0.0	0.0	1.8	6.7	2.5
Mechanical drafters	17-3013	Line item	64.8	68.1	0.0	0.0	3.3	5.1	5.9
Drafters, all other	17-3019	Line item	15.9	17.2	0.0	0.0	1.3	7.9	1.5
Engineering technicians, except drafters	17-3020	Summary	441.3	460.9	0.3	0.3	19.6	4.4	40.1
Aerospace engineering and operations technicians	17-3021	Line item	12.1	12.9	0.0	0.0	0.8	6.6	1.1
Civil engineering technicians	17-3022	Line item	74.5	81.1	0.0	0.0	6.6	8.8	7.2
Electrical and electronics engineering technicians	17-3023	Line item	137.0	139.8	0.1	0.1	2.8	2.0	12.0
Electro-mechanical technicians	17-3024	Line item	13.8	14.3	0.0	0.0	0.5	3.5	1.2
Environmental engineering technicians	17-3025	Line item	17.0	19.1	0.0	0.0	2.2	12.9	1.7
Industrial engineering technicians	17-3026	Line item	63.9	64.3	0.0	0.0	0.4	0.6	5.5
Mechanical engineering technicians	17-3027	Line item	46.1	48.4	0.0	0.0	2.3	5.0	4.2
Engineering technicians, except drafters, all other	17-3029	Line item	76.8	80.8	0.0	0.0	4.0	5.2	7.1

Surveying and mapping technicians	17-3031	Line item	60.2	66.6	0.0	0.0	6.4	10.6	7.2
Life, physical, and social science occupations	19-0000	Summary	1,299.5	1,422.4	0.8	0.8	122.9	9.5	132.5
Life scientists	19-1000	Summary	325.4	357.8	0.2	0.2	32.4	10.0	32.4
Agricultural and food scientists	19-1010	Summary	43.0	46.2	0.0	0.0	3.2	7.4	4.7
Animal scientists	19-1011	Line item	6.1	6.4	0.0	0.0	0.4	6.0	0.7
Food scientists and technologists	19-1012	Line item	17.0	18.0	0.0	0.0	1.0	6.0	1.8
Soil and plant scientists	19-1013	Line item	19.9	21.7	0.0	0.0	1.8	9.0	2.2
Biological scientists	19-1020	Summary	112.8	122.7	0.1	0.1	9.9	8.8	11.0
Biochemists and biophysicists	19-1021	Line item	31.5	35.0	0.0	0.0	3.6	11.3	3.2
Microbiologists	19-1022	Line item	23.2	25.1	0.0	0.0	1.9	8.0	2.2
Zoologists and wildlife biologists	19-1023	Line item	19.4	20.8	0.0	0.0	1.5	7.5	1.8
Biological scientists, all other	19-1029	Line item	38.7	41.8	0.0	0.0	3.1	7.9	3.7
Conservation scientists and foresters	19-1030	Summary	34.6	36.6	0.0	0.0	2.1	6.0	3.1
Conservation scientists	19-1031	Line item	22.3	23.8	0.0	0.0	1.5	6.5	2.0
Foresters	19-1032	Line item	12.3	12.9	0.0	0.0	0.6	5.2	1.1
Medical scientists	19-1040	Summary	126.1	142.5	0.1	0.1	16.4	13.0	12.7
Epidemiologists	19-1041	Line item	6.1	6.6	0.0	0.0	0.5	8.7	0.6
Medical scientists, except epidemiologists	19-1042	Line item	120.0	135.9	0.1	0.1	15.9	13.2	12.1
Life scientists, all other	19-1099	Line item	8.9	9.7	0.0	0.0	0.8	9.0	0.8
Physical scientists	19-2000	Summary	278.2	305.1	0.2	0.2	26.8	9.6	27.9
Astronomers and physicists	19-2010	Summary	19.9	22.7	0.0	0.0	2.8	14.0	1.9
Astronomers	19-2011	Line item	2.0	2.2	0.0	0.0	0.2	10.0	0.2
Physicists	19-2012	Line item	17.9	20.5	0.0	0.0	2.6	14.5	1.7
Atmospheric and space scientists	19-2021	Line item	10.4	11.7	0.0	0.0	1.3	12.0	0.9
Chemists and materials scientists	19-2030	Summary	96.2	102.5	0.1	0.1	6.3	6.5	9.4
Chemists	19-2031	Line item	88.3	94.0	0.1	0.1	5.7	6.5	8.6
Materials scientists	19-2032	Line item	7.9	8.5	0.0	0.0	0.6	7.1	0.8
Environmental scientists and geoscientists	19-2040	Summary	128.2	143.2	0.1	0.1	15.0	11.7	13.8
Environmental scientists and specialists, including health	19-2041	Line item	89.5	99.3	0.1	0.1	9.9	11.1	9.5
Geoscientists, except hydrologists and geographers	19-2042	Line item	32.0	36.5	0.0	0.0	4.5	13.9	3.5
Hydrologists	19-2043	Line item	6.7	7.4	0.0	0.0	0.7	9.9	0.7
Physical scientists, all other	19-2099	Line item	23.5	25.0	0.0	0.0	1.5	6.4	2.0
Social scientists and related workers	19-3000	Summary	303.8	335.6	0.2	0.2	31.8	10.5	26.4
Economists	19-3011	Line item	21.3	22.5	0.0	0.0	1.3	6.0	1.6
Survey researchers	19-3022	Line item	14.6	14.7	0.0	0.0	0.1	0.9	1.3
Psychologists	19-3030	Summary	166.6	189.2	0.1	0.1	22.6	13.6	13.5
Clinical, counseling, and school psychologists	19-3031	Line item	147.5	168.4	0.1	0.1	20.9	14.2	12.1
Industrial-organizational psychologists	19-3032	Line item	1.7	1.8	0.0	0.0	0.1	5.6	0.1
Psychologists, all other	19-3039	Line item	17.4	19.0	0.0	0.0	1.6	9.1	1.3
Sociologists	19-3041	Line item	3.5	3.5	0.0	0.0	0.0	0.1	0.3
Urban and regional planners	19-3051	Line item	36.0	40.6	0.0	0.0	4.6	12.8	3.5
Miscellaneous social scientists and related workers	19-3090	Summary	61.9	65.0	0.0	0.0	3.2	5.1	6.0
Anthropologists and archeologists	19-3091	Line item	7.6	7.9	0.0	0.0	0.3	3.3	0.7
Geographers	19-3092	Line item	1.5	1.6	0.0	0.0	0.1	6.2	0.2
Historians	19-3093	Line item	3.3	3.5	0.0	0.0	0.2	5.4	0.3
Political scientists	19-3094	Line item	7.3	7.4	0.0	0.0	0.2	2.1	0.7
Social scientists and related workers, all other	19-3099	Line item	42.1	44.6	0.0	0.0	2.5	5.9	4.1
Life, physical, and social science technicians	19-4000	Summary	392.1	424.0	0.3	0.3	31.9	8.1	45.9
Agricultural and food science technicians	19-4011	Line item	27.5	29.2	0.0	0.0	1.7	6.3	3.0
Biological technicians	19-4021	Line item	82.1	90.4	0.1	0.1	8.4	10.2	8.9
Chemical technicians	19-4031	Line item	67.3	69.9	0.0	0.0	2.7	3.9	6.6
Geological and petroleum technicians	19-4041	Line item	15.0	17.4	0.0	0.0	2.5	16.4	1.9
Nuclear technicians	19-4051	Line item	6.9	6.9	0.0	0.0	0.0	0.6	0.8
Social science research assistants	19-4061	Line item	34.0	35.4	0.0	0.0	1.4	4.1	4.1

Miscellaneous life, physical, and social science technicians	19-4090	Summary	159.3	174.6	0.1	0.1	15.3	9.6	20.7
Environmental science and protection technicians, including health	19-4091	Line item	34.6	38.8	0.0	0.0	4.1	11.9	4.6
Forensic science technicians	19-4092	Line item	15.4	18.0	0.0	0.0	2.6	16.8	2.2
Forest and conservation technicians	19-4093	Line item	33.2	34.5	0.0	0.0	1.3	3.8	4.0
Life, physical, and social science technicians, all other	19-4099	Line item	76.1	83.4	0.0	0.0	7.3	9.6	9.9
Community and social service occupations	21-0000	Summary	2,570.7	2,917.9	1.6	1.7	347.2	13.5	327.0
Counselors, social workers, and other community and social service specialists	21-1000	Summary	2,126.4	2,439.1	1.4	1.5	312.7	14.7	270.7
Counselors	21-1010	Summary	744.5	853.5	0.5	0.5	109.1	14.7	92.5
Substance abuse and behavioral disorder counselors	21-1011	Line item	102.4	122.8	0.1	0.1	20.4	19.9	13.5
Educational, guidance, school, and vocational counselors	21-1012	Line item	291.7	324.7	0.2	0.2	33.0	11.3	34.8
Marriage and family therapists	21-1013	Line item	41.5	49.9	0.0	0.0	8.4	20.2	5.5
Mental health counselors	21-1014	Line item	157.7	188.9	0.1	0.1	31.2	19.8	20.8
Rehabilitation counselors	21-1015	Line item	119.3	130.9	0.1	0.1	11.6	9.7	13.9
Counselors, all other	21-1019	Line item	31.8	36.3	0.0	0.0	4.5	14.3	3.9
Social workers	21-1020	Summary	682.1	784.2	0.4	0.5	102.1	15.0	83.2
Child, family, and school social workers	21-1021	Line item	317.6	359.7	0.2	0.2	42.1	13.3	37.9
Healthcare social workers	21-1022	Line item	176.5	209.3	0.1	0.1	32.7	18.5	22.5
Mental health and substance abuse social workers	21-1023	Line item	123.9	146.1	0.1	0.1	22.2	17.9	15.7
Social workers, all other	21-1029	Line item	64.0	69.0	0.0	0.0	5.0	7.9	7.1
Miscellaneous community and social service specialists	21-1090	Summary	699.9	801.5	0.4	0.5	101.6	14.5	95.0
Health educators	21-1091	Line item	61.0	69.9	0.0	0.0	8.8	14.5	8.7
Probation officers and correctional treatment specialists	21-1092	Line item	91.3	96.5	0.1	0.1	5.2	5.7	8.3
Social and human service assistants	21-1093	Line item	389.8	453.7	0.2	0.3	63.9	16.4	55.4
Community health workers	21-1094	Line item	57.5	67.8	0.0	0.0	10.4	18.1	8.5
Community and social service specialists, all other	21-1099	Line item	100.3	113.5	0.1	0.1	13.2	13.2	14.1
Religious workers	21-2000	Summary	444.2	478.7	0.3	0.3	34.5	7.8	56.3
Clergy	21-2011	Line item	243.9	263.6	0.2	0.2	19.6	8.0	29.2
Directors, religious activities and education	21-2021	Line item	147.1	157.8	0.1	0.1	10.8	7.3	19.4
Religious workers, all other	21-2099	Line item	53.2	57.3	0.0	0.0	4.1	7.7	7.7
Legal occupations	23-0000	Summary	1,283.3	1,409.1	0.8	0.8	125.8	9.8	91.9
Lawyers, judges, and related workers	23-1000	Summary	858.2	936.9	0.5	0.6	78.7	9.2	45.2
Lawyers and judicial law clerks	23-1010	Summary	806.5	882.2	0.5	0.5	75.6	9.4	42.7
Lawyers	23-1011	Line item	792.5	867.4	0.5	0.5	74.8	9.4	41.9
Judicial law clerks	23-1012	Line item	14.0	14.8	0.0	0.0	0.8	5.5	0.8
Judges, magistrates, and other judicial workers	23-1020	Summary	51.7	54.7	0.0	0.0	3.1	6.0	2.5
Administrative law judges, adjudicators, and hearing officers	23-1021	Line item	15.4	16.0	0.0	0.0	0.6	4.0	0.7
Arbitrators, mediators, and conciliators	23-1022	Line item	7.8	8.7	0.0	0.0	0.9	11.3	0.4
Judges, magistrate judges, and magistrates	23-1023	Line item	28.4	30.0	0.0	0.0	1.6	5.6	1.4
Legal support workers	23-2000	Summary	425.1	472.2	0.3	0.3	47.1	11.1	46.7
Paralegals and legal assistants	23-2011	Line item	285.6	327.4	0.2	0.2	41.8	14.6	34.7
Miscellaneous legal support workers	23-2090	Summary	139.5	144.7	0.1	0.1	5.3	3.8	12.0
Court reporters	23-2091	Line item	19.6	20.3	0.0	0.0	0.6	3.3	1.7
Title examiners, abstractors, and searchers	23-2093	Line item	69.0	71.7	0.0	0.0	2.8	4.0	6.0
Legal support workers, all other	23-2099	Line item	50.9	52.7	0.0	0.0	1.8	3.6	4.4
Education, training, and library occupations	25-0000	Summary	9,426.5	10,303.4	6.0	6.1	876.8	9.3	916.7
Postsecondary teachers	25-1000	Summary	1,871.4	2,107.9	1.2	1.3	236.6	12.6	172.4
Business teachers, postsecondary	25-1011	Line item	104.2	123.0	0.1	0.1	18.9	18.1	10.4
Math and computer teachers, postsecondary	25-1020	Summary	100.6	109.4	0.1	0.1	8.8	8.8	8.7
Computer science teachers, postsecondary	25-1021	Line item	39.7	42.8	0.0	0.0	3.2	8.0	3.4
Mathematical science teachers, postsecondary	25-1022	Line item	60.9	66.6	0.0	0.0	5.6	9.2	5.3
Engineering and architecture teachers, postsecondary	25-1030	Summary	57.1	65.0	0.0	0.0	7.9	13.9	5.4
Architecture teachers, postsecondary	25-1031	Line item	9.5	10.5	0.0	0.0	1.0	10.6	0.8
Engineering teachers, postsecondary	25-1032	Line item	47.6	54.6	0.0	0.0	6.9	14.5	4.5



Life sciences teachers, postsecondary	25-1040	Summary	77.1	87.6	0.0	0.1	10.5	13.7	7.2
Agricultural sciences teachers, postsecondary	25-1041	Line item	12.6	13.6	0.0	0.0	0.9	7.5	1.1
Biological science teachers, postsecondary	25-1042	Line item	62.3	71.7	0.0	0.0	9.4	15.1	6.0
Forestry and conservation science teachers, postsecondary	25-1043	Line item	2.2	2.3	0.0	0.0	0.2	7.7	0.2
Physical sciences teachers, postsecondary	25-1050	Summary	64.0	70.2	0.0	0.0	6.3	9.8	5.6
Atmospheric, earth, marine, and space sciences teachers,	25-1051	Line item	13.1	14.4	0.0	0.0	1.3	9.5	1.2
Chemistry teachers, postsecondary	25-1052	Line item	26.3	28.9	0.0	0.0	2.6	9.9	2.3
Environmental science teachers, postsecondary	25-1053	Line item	6.9	7.6	0.0	0.0	0.7	9.6	0.6
Physics teachers, postsecondary	25-1054	Line item	17.6	19.4	0.0	0.0	1.8	10.0	1.6
Social sciences teachers, postsecondary	25-1060	Summary	141.3	158.0	0.1	0.1	16.7	11.8	12.9
Anthropology and archeology teachers, postsecondary	25-1061	Line item	7.1	7.8	0.0	0.0	0.7	10.0	0.6
Area, ethnic, and cultural studies teachers, postsecondary	25-1062	Line item	11.5	12.7	0.0	0.0	1.2	10.5	1.0
Economics teachers, postsecondary	25-1063	Line item	16.5	18.2	0.0	0.0	1.8	10.6	1.5
Geography teachers, postsecondary	25-1064	Line item	5.0	5.4	0.0	0.0	0.4	8.4	0.4
Political science teachers, postsecondary	25-1065	Line item	21.2	23.4	0.0	0.0	2.2	10.5	1.9
Psychology teachers, postsecondary	25-1066	Line item	46.9	54.0	0.0	0.0	7.1	15.1	4.5
Sociology teachers, postsecondary	25-1067	Line item	17.9	19.6	0.0	0.0	1.7	9.8	1.6
Social sciences teachers, postsecondary, all other	25-1069	Line item	15.3	16.8	0.0	0.0	1.5	10.0	1.3
Health teachers, postsecondary	25-1070	Summary	301.4	378.2	0.2	0.2	76.8	25.5	33.1
Health specialties teachers, postsecondary	25-1071	Line item	233.5	294.0	0.1	0.2	60.5	25.9	25.8
Nursing instructors and teachers, postsecondary	25-1072	Line item	67.9	84.2	0.0	0.1	16.3	24.0	7.3
Education and library science teachers, postsecondary	25-1080	Summary	80.5	88.7	0.1	0.1	8.2	10.2	7.1
Education teachers, postsecondary	25-1081	Line item	74.5	82.2	0.0	0.0	7.7	10.3	6.6
Library science teachers, postsecondary	25-1082	Line item	6.0	6.5	0.0	0.0	0.5	9.0	0.5
Law, criminal justice, and social work teachers, postsecondary	25-1110	Summary	53.4	59.6	0.0	0.0	6.2	11.7	4.8
Criminal justice and law enforcement teachers, postsecondary	25-1111	Line item	17.3	19.4	0.0	0.0	2.2	12.5	1.6
Law teachers, postsecondary	25-1112	Line item	21.2	23.8	0.0	0.0	2.6	12.2	1.9
Social work teachers, postsecondary	25-1113	Line item	14.9	16.3	0.0	0.0	1.5	9.9	1.3
Arts, communications, and humanities teachers, postsecondary	25-1120	Summary	334.9	372.1	0.2	0.2	37.2	11.1	30.1
Art, drama, and music teachers, postsecondary	25-1121	Line item	122.5	137.2	0.1	0.1	14.7	12.0	11.2
Communications teachers, postsecondary	25-1122	Line item	34.1	37.5	0.0	0.0	3.4	10.0	3.0
English language and literature teachers, postsecondary	25-1123	Line item	84.6	92.9	0.1	0.1	8.3	9.8	7.5
Foreign language and literature teachers, postsecondary	25-1124	Line item	35.0	39.1	0.0	0.0	4.1	11.8	3.2
History teachers, postsecondary	25-1125	Line item	26.9	29.7	0.0	0.0	2.8	10.3	2.4
Philosophy and religion teachers, postsecondary	25-1126	Line item	31.8	35.7	0.0	0.0	3.9	12.3	2.9
Miscellaneous postsecondary teachers	25-1190	Summary	557.0	596.0	0.4	0.4	39.0	7.0	47.0
Graduate teaching assistants	25-1191	Line item	168.3	181.2	0.1	0.1	12.9	7.7	14.4
Home economics teachers, postsecondary	25-1192	Line item	3.5	3.8	0.0	0.0	0.3	7.8	0.3
Recreation and fitness studies teachers, postsecondary	25-1193	Line item	20.6	22.6	0.0	0.0	2.0	9.6	1.8
Vocational education teachers, postsecondary	25-1194	Line item	128.0	129.7	0.1	0.1	1.7	1.3	9.8
Postsecondary teachers, all other	25-1199	Line item	236.5	258.7	0.2	0.2	22.2	9.4	20.7
Preschool, primary, secondary, and special education school teachers	25-2000	Summary	4,264.8	4,598.6	2.7	2.7	333.8	7.8	358.7
Preschool and kindergarten teachers	25-2010	Summary	633.0	695.3	0.4	0.4	62.3	9.8	70.3
Preschool teachers, except special education	25-2011	Line item	478.5	528.6	0.3	0.3	50.1	10.5	53.6
Kindergarten teachers, except special education	25-2012	Line item	154.4	166.7	0.1	0.1	12.2	7.9	16.7
Elementary and middle school teachers	25-2020	Summary	2,053.9	2,206.2	1.3	1.3	152.3	7.4	164.4
Elementary school teachers, except special education	25-2021	Line item	1,410.9	1,514.9	0.9	0.9	104.1	7.4	112.8
Middle school teachers, except special and career/technical	25-2022	Line item	630.3	677.7	0.4	0.4	47.3	7.5	50.5
Career/technical education teachers, middle school	25-2023	Line item	12.7	13.6	0.0	0.0	0.9	7.3	1.0
Secondary school teachers	25-2030	Summary	1,097.4	1,179.2	0.7	0.7	81.8	7.5	85.5
Secondary school teachers, except special and career/technical	25-2031	Line item	1,018.7	1,095.5	0.7	0.7	76.8	7.5	79.5
Career/technical education teachers, secondary school	25-2032	Line item	78.7	83.7	0.1	0.0	5.0	6.4	6.0
Special education teachers	25-2050	Summary	480.6	517.9	0.3	0.3	37.3	7.8	38.5
Special education teachers, preschool	25-2051	Line item	29.2	32.5	0.0	0.0	3.3	11.2	2.5

Special education teachers, kindergarten and elementary school	25-2052	Line item	188.9	202.8	0.1	0.1	13.9	7.4	15.0
Special education teachers, middle school	25-2053	Line item	89.3	95.7	0.1	0.1	6.3	7.1	7.1
Special education teachers, secondary school	25-2054	Line item	131.9	141.6	0.1	0.1	9.7	7.4	10.5
Special education teachers, all other	25-2059	Line item	41.3	45.4	0.0	0.0	4.1	9.8	3.4
Other teachers and instructors	25-3000	Summary	1,416.2	1,557.6	0.9	0.9	141.4	10.0	174.3
Adult basic and secondary education and literacy teachers and	25-3011	Line item	68.2	64.3	0.0	0.0	-3.8	-5.6	6.8
Self-enrichment education teachers	25-3021	Line item	354.2	406.9	0.2	0.2	52.7	14.9	46.3
Teachers and instructors, all other	25-3099	Line item	993.9	1,086.4	0.6	0.6	92.5	9.3	121.3
Librarians, curators, and archivists	25-4000	Summary	268.4	293.9	0.2	0.2	25.5	9.5	32.6
Archivists, curators, and museum technicians	25-4010	Summary	31.0	35.1	0.0	0.0	4.2	13.4	3.7
Archivists	25-4011	Line item	6.8	7.8	0.0	0.0	1.0	14.3	0.8
Curators	25-4012	Line item	12.4	14.1	0.0	0.0	1.7	14.0	1.5
Museum technicians and conservators	25-4013	Line item	11.8	13.3	0.0	0.0	1.5	12.4	1.4
Librarians	25-4021	Line item	138.2	150.6	0.1	0.1	12.4	8.9	14.5
Library technicians	25-4031	Line item	99.2	108.2	0.1	0.1	9.0	9.1	14.4
Other education, training, and library occupations	25-9000	Summary	1,605.7	1,745.3	1.0	1.0	139.6	8.7	178.6
Audio-visual and multimedia collections specialists	25-9011	Line item	11.3	12.3	0.0	0.0	1.0	8.7	1.1
Farm and home management advisors	25-9021	Line item	10.4	11.2	0.0	0.0	0.8	7.3	1.0
Instructional coordinators	25-9031	Line item	163.2	179.7	0.1	0.1	16.5	10.1	16.8
Teacher assistants	25-9041	Line item	1,308.1	1,417.6	0.8	0.8	109.5	8.4	147.9
Education, training, and library workers, all other	25-9099	Line item	112.7	124.5	0.1	0.1	11.8	10.5	11.7
Arts, design, entertainment, sports, and media occupations	27-0000	Summary	2,772.9	2,946.5	1.8	1.8	173.6	6.3	289.7
Art and design workers	27-1000	Summary	833.7	874.8	0.5	0.5	41.1	4.9	79.2
Artists and related workers	27-1010	Summary	217.4	235.8	0.1	0.1	18.4	8.5	19.5
Art directors	27-1011	Line item	90.3	97.0	0.1	0.1	6.7	7.4	8.0
Craft artists	27-1012	Line item	12.5	13.3	0.0	0.0	0.8	6.3	1.1
Fine artists, including painters, sculptors, and illustrators	27-1013	Line item	28.0	30.4	0.0	0.0	2.4	8.6	2.5
Multimedia artists and animators	27-1014	Line item	73.7	81.3	0.0	0.0	7.7	10.4	6.8
Artists and related workers, all other	27-1019	Line item	12.8	13.7	0.0	0.0	0.9	6.9	1.1
Designers	27-1020	Summary	616.3	639.0	0.4	0.4	22.7	3.7	59.7
Commercial and industrial designers	27-1021	Line item	39.7	41.6	0.0	0.0	2.0	5.0	3.9
Fashion designers	27-1022	Line item	23.8	24.5	0.0	0.0	0.7	3.1	2.3
Floral designers	27-1023	Line item	55.0	51.7	0.0	0.0	-3.2	-5.9	4.6
Graphic designers	27-1024	Line item	266.3	278.8	0.2	0.2	12.5	4.7	26.2
Interior designers	27-1025	Line item	66.5	69.8	0.0	0.0	3.3	4.9	6.6
Merchandise displayers and window trimmers	27-1026	Line item	141.4	146.8	0.1	0.1	5.3	3.8	13.7
Set and exhibit designers	27-1027	Line item	14.6	16.2	0.0	0.0	1.6	10.9	1.6
Designers, all other	27-1029	Line item	9.0	9.5	0.0	0.0	0.6	6.4	0.9
Entertainers and performers, sports and related workers	27-2000	Summary	801.9	882.0	0.5	0.5	80.1	10.0	99.9
Actors, producers, and directors	27-2010	Summary	198.5	222.1	0.1	0.1	23.6	11.9	21.4
Actors	27-2011	Line item	63.8	71.3	0.0	0.0	7.5	11.7	7.4
Producers and directors	27-2012	Line item	134.7	150.8	0.1	0.1	16.1	12.0	14.0
Athletes, coaches, umpires, and related workers	27-2020	Summary	309.0	346.6	0.2	0.2	37.5	12.1	46.8
Athletes and sports competitors	27-2021	Line item	11.8	12.7	0.0	0.0	0.8	7.2	1.7
Coaches and scouts	27-2022	Line item	276.1	311.2	0.2	0.2	35.1	12.7	42.0
Umpires, referees, and other sports officials	27-2023	Line item	21.1	22.7	0.0	0.0	1.6	7.4	3.0
Dancers and choreographers	27-2030	Summary	20.4	21.3	0.0	0.0	0.9	4.4	2.8
Dancers	27-2031	Line item	13.5	14.1	0.0	0.0	0.7	5.0	1.9
Choreographers	27-2032	Line item	6.9	7.1	0.0	0.0	0.2	3.2	1.0
Musicians, singers, and related workers	27-2040	Summary	247.3	263.2	0.2	0.2	15.9	6.4	25.7
Music directors and composers	27-2041	Line item	74.8	79.4	0.0	0.0	4.6	6.1	7.8
Musicians and singers	27-2042	Line item	172.4	183.8	0.1	0.1	11.3	6.6	18.0
Entertainers and performers, sports and related workers, all other	27-2099	Line item	26.7	28.9	0.0	0.0	2.1	8.0	3.2
Media and communication workers	27-3000	Summary	774.8	820.1	0.5	0.5	45.3	5.8	78.5

Announcers	27-3010	Summary	52.7	48.5	0.0	0.0	-4.1	-7.8	4.4
Radio and television announcers	27-3011	Line item	41.3	36.8	0.0	0.0	-4.5	-10.9	3.3
Public address system and other announcers	27-3012	Line item	11.4	11.8	0.0	0.0	0.4	3.2	1.1
News analysts, reporters and correspondents	27-3020	Summary	50.4	45.6	0.0	0.0	-4.8	-9.6	4.2
Broadcast news analysts	27-3021	Line item	5.7	5.6	0.0	0.0	-0.1	-1.0	0.5
Reporters and correspondents	27-3022	Line item	44.7	40.0	0.0	0.0	-4.8	-10.7	3.6
Public relations specialists	27-3031	Line item	259.6	283.0	0.2	0.2	23.3	9.0	28.3
Writers and editors	27-3040	Summary	311.0	327.6	0.2	0.2	16.6	5.3	30.7
Editors	27-3041	Line item	127.4	127.3	0.1	0.1	-0.1	-0.1	12.3
Technical writers	27-3042	Line item	52.4	58.1	0.0	0.0	5.7	10.9	5.7
Writers and authors	27-3043	Line item	131.2	142.2	0.1	0.1	11.0	8.3	12.7
Miscellaneous media and communication workers	27-3090	Summary	101.1	115.4	0.1	0.1	14.3	14.1	11.0
Interpreters and translators	27-3091	Line item	68.2	79.6	0.0	0.0	11.4	16.7	7.7
Media and communication workers, all other	27-3099	Line item	32.9	35.8	0.0	0.0	2.9	8.7	3.3
Media and communication equipment workers	27-4000	Summary	362.5	369.6	0.2	0.2	7.1	2.0	32.1
Broadcast and sound engineering technicians and radio operators	27-4010	Summary	135.3	146.0	0.1	0.1	10.7	7.9	13.7
Audio and video equipment technicians	27-4011	Line item	83.3	94.0	0.1	0.1	10.7	12.9	9.0
Broadcast technicians	27-4012	Line item	34.0	32.9	0.0	0.0	-1.1	-3.2	2.9
Radio operators	27-4013	Line item	0.9	0.9	0.0	0.0	0.0	-1.0	0.1
Sound engineering technicians	27-4014	Line item	17.0	18.1	0.0	0.0	1.1	6.3	1.7
Photographers	27-4021	Line item	147.3	134.9	0.1	0.1	-12.4	-8.4	9.7
Television, video, and motion picture camera operators and editors	27-4030	Summary	59.3	66.5	0.0	0.0	7.2	12.1	6.5
Camera operators, television, video, and motion picture	27-4031	Line item	25.1	26.7	0.0	0.0	1.6	6.4	2.6
Film and video editors	27-4032	Line item	34.2	39.8	0.0	0.0	5.6	16.3	4.0
Media and communication equipment workers, all other	27-4099	Line item	20.6	22.2	0.0	0.0	1.6	7.9	2.1
Healthcare practitioners and technical occupations	29-0000	Summary	8,751.5	10,082.4	5.6	6.0	1,330.9	15.2	624.3
Health diagnosing and treating practitioners	29-1000	Summary	5,485.4	6,376.7	3.5	3.8	891.3	16.2	355.3
Chiropractors	29-1011	Line item	47.4	52.4	0.0	0.0	5.0	10.5	1.7
Dentists	29-1020	Summary	153.5	179.9	0.1	0.1	26.4	17.2	7.0
Dentists, general	29-1021	Line item	132.8	156.0	0.1	0.1	23.2	17.5	6.1
Oral and maxillofacial surgeons	29-1022	Line item	6.8	7.9	0.0	0.0	1.2	17.2	0.3
Orthodontists	29-1023	Line item	6.6	7.7	0.0	0.0	1.1	17.3	0.3
Prosthodontists	29-1024	Line item	0.9	1.1	0.0	0.0	0.2	17.2	0.0
Dentists, all other specialists	29-1029	Line item	6.4	7.2	0.0	0.0	0.8	12.0	0.3
Dietitians and nutritionists	29-1031	Line item	68.0	77.6	0.0	0.0	9.6	14.1	5.3
Optometrists	29-1041	Line item	40.2	47.1	0.0	0.0	7.0	17.3	2.0
Pharmacists	29-1051	Line item	312.5	330.1	0.2	0.2	17.6	5.6	15.3
Physicians and surgeons	29-1060	Summary	713.8	820.3	0.5	0.5	106.5	14.9	30.4
Anesthesiologists	29-1061	Line item	33.0	38.9	0.0	0.0	5.9	17.8	1.5
Family and general practitioners	29-1062	Line item	134.8	157.1	0.1	0.1	22.2	16.5	6.0
Internists, general	29-1063	Line item	49.8	58.2	0.0	0.0	8.4	16.9	2.2
Obstetricians and gynecologists	29-1064	Line item	21.7	25.5	0.0	0.0	3.9	17.9	1.0
Pediatricians, general	29-1065	Line item	29.6	34.8	0.0	0.0	5.3	17.8	1.4
Psychiatrists	29-1066	Line item	27.5	31.2	0.0	0.0	3.6	13.1	1.1
Surgeons	29-1067	Line item	45.0	52.6	0.0	0.0	7.6	16.8	2.0
Physicians and surgeons, all other	29-1069	Line item	372.4	422.0	0.2	0.3	49.6	13.3	15.2
Physician assistants	29-1071	Line item	106.2	145.9	0.1	0.1	39.7	37.4	10.6
Podiatrists	29-1081	Line item	11.0	12.1	0.0	0.0	1.1	9.7	0.7
Therapists	29-1120	Summary	723.0	876.7	0.5	0.5	153.7	21.3	51.9
Occupational therapists	29-1122	Line item	130.4	158.0	0.1	0.1	27.7	21.2	9.7
Physical therapists	29-1123	Line item	239.8	299.8	0.2	0.2	60.0	25.0	16.8
Radiation therapists	29-1124	Line item	19.1	21.3	0.0	0.0	2.3	11.9	1.2
Recreational therapists	29-1125	Line item	19.2	20.5	0.0	0.0	1.3	6.5	1.2
Respiratory therapists	29-1126	Line item	130.2	160.6	0.1	0.1	30.4	23.4	9.8

Speech-language pathologists	29-1127	Line item	145.1	170.5	0.1	0.1	25.4	17.5	10.3
Exercise physiologists	29-1128	Line item	15.1	17.1	0.0	0.0	2.0	12.9	1.1
Therapists, all other	29-1129	Line item	24.1	28.9	0.0	0.0	4.8	19.7	1.9
Veterinarians	29-1131	Line item	79.6	94.0	0.1	0.1	14.4	18.1	4.5
Registered nurses	29-1141	Line item	2,955.2	3,392.2	1.9	2.0	437.0	14.8	203.6
Nurse anesthetists	29-1151	Line item	41.8	48.5	0.0	0.0	6.7	16.0	2.8
Nurse midwives	29-1161	Line item	6.5	7.8	0.0	0.0	1.3	20.6	0.5
Nurse practitioners	29-1171	Line item	155.5	211.5	0.1	0.1	56.0	36.0	14.4
Audiologists	29-1181	Line item	14.8	17.8	0.0	0.0	3.0	20.4	1.0
Health diagnosing and treating practitioners, all other	29-1199	Line item	56.4	62.9	0.0	0.0	6.4	11.4	3.6
Health technologists and technicians	29-2000	Summary	3,093.5	3,513.1	2.0	2.1	419.6	13.6	257.9
Clinical laboratory technologists and technicians	29-2010	Summary	335.7	378.3	0.2	0.2	42.7	12.7	25.9
Medical and clinical laboratory technologists	29-2011	Line item	171.4	191.2	0.1	0.1	19.7	11.5	12.9
Medical and clinical laboratory technicians	29-2012	Line item	164.2	187.2	0.1	0.1	22.9	14.0	12.9
Dental hygienists	29-2021	Line item	207.9	248.8	0.1	0.1	40.9	19.6	17.5
Diagnostic related technologists and technicians	29-2030	Summary	384.1	437.3	0.2	0.3	53.1	13.8	26.2
Cardiovascular technologists and technicians	29-2031	Line item	55.0	60.5	0.0	0.0	5.4	9.9	3.5
Diagnostic medical sonographers	29-2032	Line item	67.3	82.9	0.0	0.0	15.6	23.2	5.4
Nuclear medicine technologists	29-2033	Line item	20.1	22.0	0.0	0.0	2.0	9.8	1.3
Radiologic technologists	29-2034	Line item	205.2	230.4	0.1	0.1	25.2	12.3	13.6
Magnetic resonance imaging technologists	29-2035	Line item	36.6	41.5	0.0	0.0	5.0	13.6	2.5
Emergency medical technicians and paramedics	29-2041	Line item	248.0	285.4	0.2	0.2	37.4	15.1	19.3
Health practitioner support technologists and technicians	29-2050	Summary	767.0	857.1	0.5	0.5	90.1	11.7	71.4
Dietetic technicians	29-2051	Line item	33.4	36.5	0.0	0.0	3.1	9.3	3.0
Pharmacy technicians	29-2052	Line item	402.5	450.1	0.3	0.3	47.6	11.8	37.5
Psychiatric technicians	29-2053	Line item	66.1	70.0	0.0	0.0	3.9	5.9	5.6
Respiratory therapy technicians	29-2054	Line item	10.8	4.7	0.0	0.0	-6.1	-56.3	0.0
Surgical technologists	29-2055	Line item	107.7	120.3	0.1	0.1	12.6	11.7	10.0
Veterinary technologists and technicians	29-2056	Line item	102.0	122.4	0.1	0.1	20.4	19.9	10.7
Ophthalmic medical technicians	29-2057	Line item	44.5	53.2	0.0	0.0	8.7	19.4	4.6
Licensed practical and licensed vocational nurses	29-2061	Line item	724.5	813.1	0.5	0.5	88.6	12.2	62.7
Medical records and health information technicians	29-2071	Line item	206.3	234.1	0.1	0.1	27.8	13.5	15.8
Opticians, dispensing	29-2081	Line item	77.6	88.9	0.0	0.1	11.3	14.5	7.0
Miscellaneous health technologists and technicians	29-2090	Summary	142.4	170.2	0.1	0.1	27.8	19.5	12.3
Orthotists and prosthetists	29-2091	Line item	7.8	9.5	0.0	0.0	1.7	21.9	0.7
Hearing aid specialists	29-2092	Line item	6.8	8.2	0.0	0.0	1.3	19.2	0.6
Health technologists and technicians, all other	29-2099	Line item	127.8	152.5	0.1	0.1	24.8	19.4	11.0
Other healthcare practitioners and technical occupations	29-9000	Summary	172.6	192.6	0.1	0.1	20.0	11.6	11.0
Occupational health and safety specialists and technicians	29-9010	Summary	101.8	109.9	0.1	0.1	8.1	7.9	6.1
Occupational health and safety specialists	29-9011	Line item	83.7	90.1	0.1	0.1	6.4	7.6	4.9
Occupational health and safety technicians	29-9012	Line item	18.1	19.8	0.0	0.0	1.7	9.5	1.1
Miscellaneous health practitioners and technical workers	29-9090	Summary	70.8	82.7	0.0	0.0	11.9	16.8	5.0
Athletic trainers	29-9091	Line item	27.8	34.0	0.0	0.0	6.2	22.2	2.2
Genetic counselors	29-9092	Line item	3.1	3.9	0.0	0.0	0.9	28.3	0.3
Healthcare practitioners and technical workers, all other	29-9099	Line item	40.0	44.8	0.0	0.0	4.8	12.1	2.6
Healthcare support occupations	31-0000	Summary	4,315.6	5,315.5	2.8	3.2	999.9	23.2	635.4
Nursing, psychiatric, and home health aides	31-1000	Summary	2,549.4	3,147.2	1.6	1.9	597.8	23.4	376.8
Home health aides	31-1011	Line item	911.5	1,337.0	0.6	0.8	425.6	46.7	167.7
Psychiatric aides	31-1013	Line item	73.6	77.4	0.0	0.0	3.9	5.2	8.8
Nursing assistants	31-1014	Line item	1,510.3	1,674.4	1.0	1.0	164.0	10.9	193.6
Orderlies	31-1015	Line item	54.0	58.4	0.0	0.0	4.4	8.1	6.7
Occupational therapy and physical therapist assistants and aides	31-2000	Summary	187.1	242.6	0.1	0.1	55.5	29.7	31.0
Occupational therapy assistants and aides	31-2010	Summary	46.8	60.0	0.0	0.0	13.2	28.3	7.8
Occupational therapy assistants	31-2011	Line item	39.3	50.7	0.0	0.0	11.4	28.9	6.6

Occupational therapy aides	31-2012	Line item	7.5	9.3	0.0	0.0	1.8	24.7	1.2
Physical therapist assistants and aides	31-2020	Summary	140.3	182.6	0.1	0.1	42.3	30.1	23.2
Physical therapist assistants	31-2021	Line item	88.3	115.5	0.1	0.1	27.2	30.8	14.7
Physical therapist aides	31-2022	Line item	52.0	67.1	0.0	0.0	15.1	29.1	8.5
Other healthcare support occupations	31-9000	Summary	1,579.1	1,925.7	1.0	1.1	346.6	21.9	227.6
Massage therapists	31-9011	Line item	160.3	198.1	0.1	0.1	37.7	23.5	21.9
Miscellaneous healthcare support occupations	31-9090	Summary	1,418.8	1,727.6	0.9	1.0	308.8	21.8	205.6
Dental assistants	31-9091	Line item	332.0	396.6	0.2	0.2	64.6	19.5	45.9
Medical assistants	31-9092	Line item	634.4	819.0	0.4	0.5	184.6	29.1	95.0
Medical equipment preparers	31-9093	Line item	54.2	60.1	0.0	0.0	5.9	10.9	7.6
Medical transcriptionists	31-9094	Line item	57.4	55.4	0.0	0.0	-2.0	-3.5	6.4
Pharmacy aides	31-9095	Line item	36.9	35.2	0.0	0.0	-1.8	-4.8	4.7
Veterinary assistants and laboratory animal caretakers	31-9096	Line item	83.8	100.0	0.1	0.1	16.3	19.4	15.5
Phlebotomists	31-9097	Line item	122.7	152.6	0.1	0.1	30.0	24.4	16.9
Healthcare support workers, all other	31-9099	Line item	97.3	108.6	0.1	0.1	11.3	11.6	13.7
Protective service occupations	33-0000	Summary	3,505.6	3,663.8	2.2	2.2	158.2	4.5	397.2
Supervisors of protective service workers	33-1000	Summary	284.2	295.2	0.2	0.2	11.1	3.9	21.6
First-line supervisors of law enforcement workers	33-1010	Summary	149.9	153.3	0.1	0.1	3.4	2.3	9.5
First-line supervisors of correctional officers	33-1011	Line item	45.2	41.7	0.0	0.0	-3.5	-7.8	2.5
First-line supervisors of police and detectives	33-1012	Line item	104.7	111.6	0.1	0.1	6.9	6.6	7.1
First-line supervisors of fire fighting and prevention workers	33-1021	Line item	59.1	63.3	0.0	0.0	4.2	7.2	4.4
First-line supervisors of protective service workers, all other	33-1099	Line item	75.2	78.6	0.0	0.0	3.4	4.6	7.7
Fire fighting and prevention workers	33-2000	Summary	341.4	366.4	0.2	0.2	25.0	7.3	25.9
Firefighters	33-2011	Line item	327.3	351.0	0.2	0.2	23.6	7.2	24.3
Fire inspectors	33-2020	Summary	14.1	15.4	0.0	0.0	1.4	9.7	1.6
Fire inspectors and investigators	33-2021	Line item	12.3	13.2	0.0	0.0	0.9	7.3	1.4
Forest fire inspectors and prevention specialists	33-2022	Line item	1.7	2.2	0.0	0.0	0.5	26.6	0.2
Law enforcement workers	33-3000	Summary	1,285.0	1,300.1	0.8	0.8	15.2	1.2	91.0
Bailiffs, correctional officers, and jailers	33-3010	Summary	468.6	433.7	0.3	0.3	-34.9	-7.4	32.7
Bailiffs	33-3011	Line item	18.6	18.2	0.0	0.0	-0.4	-2.1	1.4
Correctional officers and jailers	33-3012	Line item	450.0	415.5	0.3	0.2	-34.5	-7.7	31.3
Detectives and criminal investigators	33-3021	Line item	110.9	115.9	0.1	0.1	5.0	4.5	7.5
Fish and game wardens	33-3031	Line item	7.0	7.3	0.0	0.0	0.3	4.3	0.7
Parking enforcement workers	33-3041	Line item	9.4	6.1	0.0	0.0	-3.3	-35.3	0.4
Police officers	33-3050	Summary	689.1	737.2	0.4	0.4	48.1	7.0	49.8
Police and sheriff's patrol officers	33-3051	Line item	684.2	731.9	0.4	0.4	47.8	7.0	49.5
Transit and railroad police	33-3052	Line item	4.9	5.3	0.0	0.0	0.3	6.3	0.4
Other protective service workers	33-9000	Summary	1,595.0	1,702.0	1.0	1.0	107.0	6.7	258.6
Animal control workers	33-9011	Line item	13.4	14.6	0.0	0.0	1.1	8.4	1.6
Private detectives and investigators	33-9021	Line item	41.4	45.7	0.0	0.0	4.3	10.5	4.5
Security guards and gaming surveillance officers	33-9030	Summary	1,133.9	1,205.0	0.7	0.7	71.0	6.3	159.0
Gaming surveillance officers and gaming investigators	33-9031	Line item	10.7	11.1	0.0	0.0	0.4	3.5	1.4
Security guards	33-9032	Line item	1,123.3	1,193.9	0.7	0.7	70.7	6.3	157.5
Miscellaneous protective service workers	33-9090	Summary	406.2	436.7	0.3	0.3	30.5	7.5	93.6
Crossing guards	33-9091	Line item	74.3	80.6	0.0	0.0	6.3	8.5	14.5
Lifeguards, ski patrol, and other recreational protective service	33-9092	Line item	152.1	163.7	0.1	0.1	11.7	7.7	39.7
Transportation security screeners	33-9093	Line item	46.1	47.3	0.0	0.0	1.2	2.6	4.2
Protective service workers, all other	33-9099	Line item	133.8	145.1	0.1	0.1	11.3	8.4	35.2
Food preparation and serving related occupations	35-0000	Summary	13,206.1	14,438.3	8.5	8.6	1,232.2	9.3	2,469.9
Supervisors of food preparation and serving workers	35-1000	Summary	1,083.4	1,185.0	0.7	0.7	101.5	9.4	166.6
Chefs and head cooks	35-1011	Line item	146.5	160.5	0.1	0.1	14.1	9.6	20.3
First-line supervisors of food preparation and serving workers	35-1012	Line item	936.9	1,024.4	0.6	0.6	87.5	9.3	146.2
Cooks and food preparation workers	35-2000	Summary	3,274.1	3,490.4	2.1	2.1	216.3	6.6	515.8
Cooks	35-2010	Summary	2,403.0	2,550.6	1.5	1.5	147.6	6.1	358.0

Cooks, fast food	35-2011	Line item	517.6	490.5	0.3	0.3	-27.1	-5.2	67.2
Cooks, institution and cafeteria	35-2012	Line item	424.8	457.4	0.3	0.3	32.6	7.7	64.4
Cooks, private household	35-2013	Line item	25.0	26.4	0.0	0.0	1.4	5.7	3.7
Cooks, restaurant	35-2014	Line item	1,231.9	1,377.2	0.8	0.8	145.3	11.8	195.3
Cooks, short order	35-2015	Line item	185.9	179.7	0.1	0.1	-6.2	-3.3	24.7
Cooks, all other	35-2019	Line item	17.8	19.4	0.0	0.0	1.6	9.0	2.7
Food preparation workers	35-2021	Line item	871.1	939.8	0.6	0.6	68.7	7.9	157.7
Food and beverage serving workers	35-3000	Summary	7,432.9	8,260.6	4.8	4.9	827.7	11.1	1,517.3
Bartenders	35-3011	Line item	611.2	626.3	0.4	0.4	15.1	2.5	102.3
Fast food and counter workers	35-3020	Summary	3,957.5	4,560.6	2.5	2.7	603.1	15.2	849.2
Combined food preparation and serving workers, including fast food	35-3021	Line item	3,452.2	4,032.1	2.2	2.4	579.9	16.8	736.0
Counter attendants, cafeteria, food concession, and coffee shop	35-3022	Line item	505.2	528.4	0.3	0.3	23.2	4.6	113.2
Waiters and waitresses	35-3031	Line item	2,600.5	2,783.0	1.7	1.7	182.5	7.0	522.7
Food servers, nonrestaurant	35-3041	Line item	263.8	290.7	0.2	0.2	26.9	10.2	43.1
Other food preparation and serving related workers	35-9000	Summary	1,415.7	1,502.3	0.9	0.9	86.6	6.1	270.3
Dining room and cafeteria attendants and bartender helpers	35-9011	Line item	431.2	461.7	0.3	0.3	30.5	7.1	78.2
Dishwashers	35-9021	Line item	514.3	536.6	0.3	0.3	22.2	4.3	83.0
Hosts and hostesses, restaurant, lounge, and coffee shop	35-9031	Line item	409.2	437.5	0.3	0.3	28.3	6.9	97.9
Food preparation and serving related workers, all other	35-9099	Line item	60.9	66.5	0.0	0.0	5.6	9.3	11.3
Building and grounds cleaning and maintenance occupations	37-0000	Summary	5,654.1	6,147.3	3.6	3.7	493.2	8.7	783.5
Supervisors of building and grounds cleaning and maintenance workers	37-1000	Summary	421.8	459.8	0.3	0.3	38.0	9.0	49.3
First-line supervisors of housekeeping and janitorial workers	37-1011	Line item	243.5	264.4	0.2	0.2	20.9	8.6	30.3
First-line supervisors of landscaping, lawn service, and groundskeeping workers	37-1012	Line item	178.3	195.4	0.1	0.1	17.1	9.6	19.0
Building cleaning and pest control workers	37-2000	Summary	3,923.0	4,244.8	2.5	2.5	321.8	8.2	558.3
Building cleaning workers	37-2010	Summary	3,844.0	4,159.5	2.5	2.5	315.5	8.2	546.7
Janitors and cleaners, except maids and housekeeping cleaners	37-2011	Line item	2,384.6	2,617.7	1.5	1.6	233.0	9.8	343.5
Maids and housekeeping cleaners	37-2012	Line item	1,443.2	1,523.6	0.9	0.9	80.4	5.6	200.8
Building cleaning workers, all other	37-2019	Line item	16.2	18.3	0.0	0.0	2.0	12.6	2.4
Pest control workers	37-2021	Line item	78.9	85.2	0.1	0.1	6.3	8.0	11.6
Grounds maintenance workers	37-3000	Summary	1,309.3	1,442.7	0.8	0.9	133.4	10.2	175.9
Landscaping and groundskeeping workers	37-3011	Line item	1,197.9	1,321.2	0.8	0.8	123.3	10.3	161.1
Pesticide handlers, sprayers, and applicators, vegetation	37-3012	Line item	38.0	40.7	0.0	0.0	2.7	7.0	4.9
Tree trimmers and pruners	37-3013	Line item	54.5	60.3	0.0	0.0	5.8	10.7	7.4
Grounds maintenance workers, all other	37-3019	Line item	18.9	20.5	0.0	0.0	1.6	8.5	2.5
Personal care and service occupations	39-0000	Summary	6,419.7	7,589.0	4.1	4.5	1,169.2	18.2	1,131.3
Supervisors of personal care and service workers	39-1000	Summary	326.7	364.4	0.2	0.2	37.7	11.5	39.0
First-line supervisors of gaming workers	39-1010	Summary	50.6	52.4	0.0	0.0	1.8	3.7	8.1
Gaming supervisors	39-1011	Line item	38.5	39.9	0.0	0.0	1.3	3.5	6.2
Slot supervisors	39-1012	Line item	12.1	12.6	0.0	0.0	0.5	4.3	2.0
First-line supervisors of personal service workers	39-1021	Line item	276.1	312.0	0.2	0.2	35.9	13.0	30.9
Animal care and service workers	39-2000	Summary	296.4	355.1	0.2	0.2	58.7	19.8	52.2
Animal trainers	39-2011	Line item	54.9	60.7	0.0	0.0	5.9	10.7	7.0
Nonfarm animal caretakers	39-2021	Line item	241.5	294.4	0.2	0.2	52.8	21.9	45.2
Entertainment attendants and related workers	39-3000	Summary	584.3	625.9	0.4	0.4	41.6	7.1	132.3
Gaming services workers	39-3010	Summary	121.0	122.6	0.1	0.1	1.6	1.4	18.1
Gaming dealers	39-3011	Line item	96.9	98.0	0.1	0.1	1.1	1.1	14.5
Gaming and sports book writers and runners	39-3012	Line item	11.7	12.1	0.0	0.0	0.4	3.8	1.8
Gaming service workers, all other	39-3019	Line item	12.5	12.6	0.0	0.0	0.1	0.7	1.9
Motion picture projectionists	39-3021	Line item	5.8	5.2	0.0	0.0	-0.6	-9.9	0.6
Ushers, lobby attendants, and ticket takers	39-3031	Line item	117.7	126.4	0.1	0.1	8.8	7.5	30.5
Miscellaneous entertainment attendants and related workers	39-3090	Summary	339.8	371.6	0.2	0.2	31.7	9.3	83.0
Amusement and recreation attendants	39-3091	Line item	300.0	327.8	0.2	0.2	27.8	9.3	73.2
Costume attendants	39-3092	Line item	6.6	7.3	0.0	0.0	0.6	9.7	1.6

Locker room, coatroom, and dressing room attendants	39-3093	Line item	18.6	20.2	0.0	0.0	1.6	8.7	4.5
Entertainment attendants and related workers, all other	39-3099	Line item	14.6	16.2	0.0	0.0	1.7	11.4	3.6
Funeral service workers	39-4000	Summary	68.5	70.8	0.0	0.0	2.3	3.3	9.9
Embalmers	39-4011	Line item	3.7	3.7	0.0	0.0	0.0	-0.8	0.6
Funeral attendants	39-4021	Line item	36.1	37.0	0.0	0.0	1.0	2.7	5.6
Morticians, undertakers, and funeral directors	39-4031	Line item	28.7	30.0	0.0	0.0	1.3	4.6	3.7
Personal appearance workers	39-5000	Summary	887.3	983.8	0.6	0.6	96.5	10.9	115.9
Barbers, hairdressers, hairstylists and cosmetologists	39-5010	Summary	673.7	744.2	0.4	0.4	70.5	10.5	88.2
Barbers	39-5011	Line item	56.4	61.6	0.0	0.0	5.2	9.2	5.8
Hairdressers, hairstylists, and cosmetologists	39-5012	Line item	617.3	682.7	0.4	0.4	65.3	10.6	82.4
Miscellaneous personal appearance workers	39-5090	Summary	213.6	239.6	0.1	0.1	26.0	12.2	27.7
Makeup artists, theatrical and performance	39-5091	Line item	4.8	5.4	0.0	0.0	0.5	11.2	0.6
Manicurists and pedicurists	39-5092	Line item	126.3	141.4	0.1	0.1	15.2	12.0	16.4
Shampooers	39-5093	Line item	21.2	23.8	0.0	0.0	2.6	12.2	2.8
Skincare specialists	39-5094	Line item	61.3	69.0	0.0	0.0	7.7	12.6	8.0
Baggage porters, bellhops, and concierges	39-6000	Summary	77.6	85.0	0.0	0.1	7.4	9.5	11.8
Baggage porters and bellhops	39-6011	Line item	45.1	48.8	0.0	0.0	3.7	8.2	6.7
Concierges	39-6012	Line item	32.5	36.2	0.0	0.0	3.7	11.3	5.0
Tour and travel guides	39-7000	Summary	49.4	54.6	0.0	0.0	5.2	10.5	9.4
Tour guides and escorts	39-7011	Line item	45.8	50.8	0.0	0.0	5.0	10.9	8.8
Travel guides	39-7012	Line item	3.6	3.8	0.0	0.0	0.2	5.5	0.7
Other personal care and service workers	39-9000	Summary	4,129.5	5,049.4	2.6	3.0	919.9	22.3	760.8
Childcare workers	39-9011	Line item	1,216.6	1,298.7	0.8	0.8	82.1	6.7	188.8
Personal care aides	39-9021	Line item	2,016.1	2,770.1	1.3	1.7	754.0	37.4	410.3
Recreation and fitness workers	39-9030	Summary	689.1	751.7	0.4	0.4	62.6	9.1	125.5
Fitness trainers and aerobics instructors	39-9031	Line item	299.2	328.4	0.2	0.2	29.3	9.8	54.8
Recreation workers	39-9032	Line item	390.0	423.3	0.2	0.3	33.3	8.5	70.6
Residential advisors	39-9041	Line item	118.8	134.1	0.1	0.1	15.3	12.9	22.4
Personal care and service workers, all other	39-9099	Line item	88.9	94.9	0.1	0.1	6.0	6.8	13.9
Sales and related occupations	41-0000	Summary	15,747.8	16,255.2	10.1	9.7	507.4	3.2	2,208.7
Supervisors of sales workers	41-1000	Summary	1,937.6	2,040.9	1.2	1.2	103.3	5.3	211.3
First-line supervisors of retail sales workers	41-1011	Line item	1,532.4	1,609.7	1.0	1.0	77.3	5.0	171.4
First-line supervisors of non-retail sales workers	41-1012	Line item	405.2	431.2	0.3	0.3	26.0	6.4	39.8
Retail sales workers	41-2000	Summary	8,891.5	8,988.6	5.7	5.4	97.1	1.1	1,424.8
Cashiers	41-2010	Summary	3,578.9	3,550.1	2.3	2.1	-28.9	-0.8	658.4
Cashiers	41-2011	Line item	3,555.5	3,526.0	2.3	2.1	-29.5	-0.8	653.9
Gaming change persons and booth cashiers	41-2012	Line item	23.4	24.0	0.0	0.0	0.6	2.7	4.5
Counter and rental clerks and parts salespersons	41-2020	Summary	710.1	748.0	0.5	0.4	37.9	5.3	94.7
Counter and rental clerks	41-2021	Line item	458.2	483.4	0.3	0.3	25.1	5.5	61.8
Parts salespersons	41-2022	Line item	251.9	264.6	0.2	0.2	12.8	5.1	32.9
Retail salespersons	41-2031	Line item	4,602.5	4,690.6	2.9	2.8	88.1	1.9	671.7
Sales representatives, services	41-3000	Summary	2,091.8	2,245.7	1.3	1.3	154.0	7.4	249.4
Advertising sales agents	41-3011	Line item	149.9	145.6	0.1	0.1	-4.4	-2.9	17.8
Insurance sales agents	41-3021	Line item	501.4	550.0	0.3	0.3	48.6	9.7	54.5
Securities, commodities, and financial services sales agents	41-3031	Line item	375.7	398.7	0.2	0.2	23.0	6.1	38.0
Travel agents	41-3041	Line item	81.7	74.3	0.1	0.0	-7.5	-9.1	8.1
Sales representatives, services, all other	41-3099	Line item	983.0	1,077.2	0.6	0.6	94.2	9.6	130.9
Sales representatives, wholesale and manufacturing	41-4000	Summary	1,813.5	1,913.3	1.2	1.1	99.8	5.5	196.3
Sales representatives, wholesale and manufacturing, technical and scientific products	41-4011	Line item	343.6	362.4	0.2	0.2	18.7	5.5	37.2
Sales representatives, wholesale and manufacturing, except technical and scientific products	41-4012	Line item	1,469.9	1,551.0	0.9	0.9	81.1	5.5	159.1
Other sales and related workers	41-9000	Summary	1,013.4	1,066.6	0.6	0.6	53.2	5.2	126.9
Models, demonstrators, and product promoters	41-9010	Summary	99.5	106.2	0.1	0.1	6.6	6.7	18.0

Demonstrators and product promoters	41-9011	Line item	94.7	101.4	0.1	0.1	6.7	7.0	17.2
Models	41-9012	Line item	4.8	4.8	0.0	0.0	0.0	-0.9	0.8
Real estate brokers and sales agents	41-9020	Summary	444.1	471.0	0.3	0.3	26.9	6.0	43.9
Real estate brokers	41-9021	Line item	95.3	100.5	0.1	0.1	5.1	5.4	9.3
Real estate sales agents	41-9022	Line item	348.8	370.5	0.2	0.2	21.7	6.2	34.6
Sales engineers	41-9031	Line item	74.9	80.1	0.0	0.0	5.2	6.9	8.3
Telemarketers	41-9041	Line item	216.6	216.5	0.1	0.1	-0.1	0.0	33.3
Miscellaneous sales and related workers	41-9090	Summary	178.3	192.8	0.1	0.1	14.5	8.2	23.3
Door-to-door sales workers, news and street vendors, and related	41-9091	Line item	82.4	87.5	0.1	0.1	5.2	6.3	9.4
Sales and related workers, all other	41-9099	Line item	95.9	105.3	0.1	0.1	9.4	9.8	13.9
Office and administrative support occupations	43-0000	Summary	23,081.2	23,230.6	14.8	13.9	149.4	0.6	2,596.4
Supervisors of office and administrative support workers	43-1000	Summary	1,506.3	1,557.5	1.0	0.9	51.2	3.4	153.0
First-line supervisors of office and administrative support workers	43-1011	Line item	1,506.3	1,557.5	1.0	0.9	51.2	3.4	153.0
Communications equipment operators	43-2000	Summary	104.7	84.4	0.1	0.1	-20.3	-19.4	10.2
Switchboard operators, including answering service	43-2011	Line item	93.2	74.7	0.1	0.0	-18.5	-19.9	9.0
Telephone operators	43-2021	Line item	9.1	7.0	0.0	0.0	-2.0	-22.6	0.9
Communications equipment operators, all other	43-2099	Line item	2.4	2.6	0.0	0.0	0.2	10.4	0.3
Financial clerks	43-3000	Summary	3,336.6	3,332.3	2.1	2.0	-4.3	-0.1	358.8
Bill and account collectors	43-3011	Line item	305.7	296.6	0.2	0.2	-9.1	-3.0	30.2
Billing and posting clerks	43-3021	Line item	501.0	571.9	0.3	0.3	70.9	14.2	59.6
Bookkeeping, accounting, and auditing clerks	43-3031	Line item	1,730.5	1,706.9	1.1	1.0	-23.5	-1.4	186.6
Gaming cage workers	43-3041	Line item	19.0	19.3	0.0	0.0	0.3	1.4	3.0
Payroll and timekeeping clerks	43-3051	Line item	166.3	164.7	0.1	0.1	-1.6	-0.9	16.1
Procurement clerks	43-3061	Line item	74.9	71.8	0.0	0.0	-3.2	-4.2	7.5
Tellers	43-3071	Line item	502.7	460.9	0.3	0.3	-41.7	-8.3	51.5
Financial clerks, all other	43-3099	Line item	36.6	40.2	0.0	0.0	3.6	9.9	4.3
Information and record clerks	43-4000	Summary	5,830.0	6,138.1	3.7	3.7	308.1	5.3	760.0
Brokerage clerks	43-4011	Line item	60.4	63.4	0.0	0.0	3.0	5.0	6.6
Correspondence clerks	43-4021	Line item	7.2	7.4	0.0	0.0	0.2	2.1	0.8
Court, municipal, and license clerks	43-4031	Line item	135.5	144.4	0.1	0.1	8.9	6.6	12.6
Credit authorizers, checkers, and clerks	43-4041	Line item	38.5	37.4	0.0	0.0	-1.1	-2.8	3.7
Customer service representatives	43-4051	Line item	2,784.5	2,920.5	1.8	1.7	136.0	4.9	373.4
Eligibility interviewers, government programs	43-4061	Line item	143.1	151.6	0.1	0.1	8.5	6.0	13.6
File clerks	43-4071	Line item	135.0	121.1	0.1	0.1	-13.9	-10.3	14.2
Hotel, motel, and resort desk clerks	43-4081	Line item	252.6	263.9	0.2	0.2	11.3	4.5	40.9
Interviewers, except eligibility and loan	43-4111	Line item	194.7	205.7	0.1	0.1	11.0	5.7	24.3
Library assistants, clerical	43-4121	Line item	104.3	114.1	0.1	0.1	9.8	9.4	16.3
Loan interviewers and clerks	43-4131	Line item	229.8	258.2	0.1	0.2	28.4	12.4	25.7
New accounts clerks	43-4141	Line item	42.0	39.4	0.0	0.0	-2.6	-6.2	4.0
Order clerks	43-4151	Line item	179.0	175.4	0.1	0.1	-3.6	-2.0	19.5
Human resources assistants, except payroll and timekeeping	43-4161	Line item	141.5	138.9	0.1	0.1	-2.6	-1.8	15.1
Receptionists and information clerks	43-4171	Line item	1,053.7	1,149.4	0.7	0.7	95.7	9.1	151.2
Reservation and transportation ticket agents and travel clerks	43-4181	Line item	150.1	155.7	0.1	0.1	5.6	3.7	16.3
Information and record clerks, all other	43-4199	Line item	178.1	191.7	0.1	0.1	13.6	7.6	21.9
Material recording, scheduling, dispatching, and distributing workers	43-5000	Summary	4,117.5	4,196.8	2.6	2.5	79.3	1.9	454.1
Cargo and freight agents	43-5011	Line item	89.8	99.1	0.1	0.1	9.3	10.4	8.6
Couriers and messengers	43-5021	Line item	95.0	103.0	0.1	0.1	8.0	8.4	9.7
Dispatchers	43-5030	Summary	300.3	308.4	0.2	0.2	8.1	2.7	28.0
Police, fire, and ambulance dispatchers	43-5031	Line item	98.6	106.7	0.1	0.1	8.2	8.3	10.0
Dispatchers, except police, fire, and ambulance	43-5032	Line item	201.7	201.7	0.1	0.1	0.0	0.0	18.0
Meter readers, utilities	43-5041	Line item	34.8	33.2	0.0	0.0	-1.5	-4.4	2.3
Postal service workers	43-5050	Summary	502.4	437.1	0.3	0.3	-65.3	-13.0	26.1
Postal service clerks	43-5051	Line item	79.0	69.5	0.1	0.0	-9.5	-12.1	4.8
Postal service mail carriers	43-5052	Line item	316.7	278.5	0.2	0.2	-38.2	-12.1	16.1



Postal service mail sorters, processors, and processing machine	43-5053	Line item	106.7	89.1	0.1	0.1	-17.5	-16.5	5.2
Production, planning, and expediting clerks	43-5061	Line item	329.4	347.3	0.2	0.2	17.9	5.4	35.5
Shipping, receiving, and traffic clerks	43-5071	Line item	681.4	681.4	0.4	0.4	0.1	0.0	67.2
Stock clerks and order fillers	43-5081	Line item	2,008.6	2,109.9	1.3	1.3	101.3	5.0	269.3
Weighers, measurers, checkers, and samplers, recordkeeping	43-5111	Line item	75.9	77.3	0.0	0.0	1.4	1.9	7.6
Secretaries and administrative assistants	43-6000	Summary	3,990.4	3,798.5	2.6	2.3	-191.9	-4.8	394.7
Executive secretaries and executive administrative assistants	43-6011	Line item	685.3	566.2	0.4	0.3	-119.1	-17.4	54.6
Legal secretaries	43-6012	Line item	194.7	157.5	0.1	0.1	-37.1	-19.1	15.0
Medical secretaries	43-6013	Line item	574.2	703.2	0.4	0.4	129.1	22.5	80.8
Secretaries and administrative assistants, except legal, medical, and executive	43-6014	Line item	2,536.2	2,371.4	1.6	1.4	-164.8	-6.5	244.3
Other office and administrative support workers	43-9000	Summary	4,195.7	4,123.0	2.7	2.5	-72.7	-1.7	465.5
Computer operators	43-9011	Line item	51.5	39.7	0.0	0.0	-11.8	-22.9	3.4
Data entry and information processing workers	43-9020	Summary	278.7	210.6	0.2	0.1	-68.1	-24.4	21.3
Data entry keyers	43-9021	Line item	203.8	160.8	0.1	0.1	-43.1	-21.1	16.8
Word processors and typists	43-9022	Line item	74.9	49.9	0.0	0.0	-25.0	-33.4	4.5
Desktop publishers	43-9031	Line item	14.6	12.6	0.0	0.0	-2.0	-13.9	1.3
Insurance claims and policy processing clerks	43-9041	Line item	308.5	342.6	0.2	0.2	34.1	11.0	35.6
Mail clerks and mail machine operators, except postal service	43-9051	Line item	95.5	88.3	0.1	0.1	-7.1	-7.5	9.4
Office clerks, general	43-9061	Line item	3,117.7	3,085.7	2.0	1.8	-32.1	-1.0	356.2
Office machine operators, except computer	43-9071	Line item	59.9	50.5	0.0	0.0	-9.4	-15.6	5.1
Proofreaders and copy markers	43-9081	Line item	14.2	14.5	0.0	0.0	0.3	2.2	2.2
Statistical assistants	43-9111	Line item	11.8	12.9	0.0	0.0	1.1	9.2	1.6
Office and administrative support workers, all other	43-9199	Line item	243.2	265.5	0.2	0.2	22.3	9.2	29.5
Farming, fishing, and forestry occupations	45-0000	Summary	1,060.1	1,060.6	0.7	0.6	0.5	0.0	155.0
Supervisors of farming, fishing, and forestry workers	45-1000	Summary	48.7	51.0	0.0	0.0	2.2	4.6	6.7
First-line supervisors of farming, fishing, and forestry workers	45-1011	Line item	48.7	51.0	0.0	0.0	2.2	4.6	6.7
Agricultural workers	45-2000	Summary	914.8	915.0	0.6	0.5	0.3	0.0	136.7
Agricultural inspectors	45-2011	Line item	15.6	16.3	0.0	0.0	0.7	4.6	2.2
Animal breeders	45-2021	Line item	9.0	9.2	0.0	0.0	0.2	2.0	1.4
Graders and sorters, agricultural products	45-2041	Line item	42.9	42.5	0.0	0.0	-0.4	-0.9	5.7
Miscellaneous agricultural workers	45-2090	Summary	847.3	847.0	0.5	0.5	-0.2	0.0	127.5
Agricultural equipment operators	45-2091	Line item	63.9	67.5	0.0	0.0	3.6	5.6	10.2
Farmworkers and laborers, crop, nursery, and greenhouse	45-2092	Line item	503.7	509.5	0.3	0.3	5.8	1.1	76.8
Farmworkers, farm, ranch, and aquacultural animals	45-2093	Line item	268.1	258.1	0.2	0.2	-10.1	-3.8	38.6
Agricultural workers, all other	45-2099	Line item	11.6	12.1	0.0	0.0	0.5	4.5	1.8
Fishing and hunting workers	45-3000	Line item	27.0	29.0	0.0	0.0	2.0	7.2	2.9
Forest, conservation, and logging workers	45-4000	Summary	69.6	65.6	0.0	0.0	-4.0	-5.8	8.6
Forest and conservation workers	45-4011	Line item	14.3	14.1	0.0	0.0	-0.2	-1.3	2.2
Logging workers	45-4020	Summary	55.3	51.5	0.0	0.0	-3.8	-7.0	6.4
Fallers	45-4021	Line item	7.5	6.7	0.0	0.0	-0.8	-10.5	0.8
Logging equipment operators	45-4022	Line item	39.1	36.3	0.0	0.0	-2.7	-7.0	4.5
Log graders and scalers	45-4023	Line item	4.2	4.3	0.0	0.0	0.1	2.7	0.6
Logging workers, all other	45-4029	Line item	4.5	4.1	0.0	0.0	-0.4	-9.5	0.5
Construction and extraction occupations	47-0000	Summary	6,812.5	7,570.8	4.4	4.5	758.4	11.1	799.7
Supervisors of construction and extraction workers	47-1000	Summary	602.5	678.8	0.4	0.4	76.3	12.7	68.5
First-line supervisors of construction trades and extraction workers	47-1011	Line item	602.5	678.8	0.4	0.4	76.3	12.7	68.5
Construction trades workers	47-2000	Summary	5,347.0	5,918.4	3.4	3.5	571.4	10.7	612.0
Boilermakers	47-2011	Line item	17.2	18.6	0.0	0.0	1.4	8.4	1.9
Brickmasons, blockmasons, and stonemasons	47-2020	Summary	110.0	121.5	0.1	0.1	11.5	10.5	10.9
Brickmasons and blockmasons	47-2021	Line item	91.1	100.8	0.1	0.1	9.7	10.6	9.1
Stonemasons	47-2022	Line item	18.9	20.7	0.0	0.0	1.9	9.8	1.9
Carpenters	47-2031	Line item	1,025.6	1,112.6	0.7	0.7	87.0	8.5	104.9
Carpet, floor, and tile installers and finishers	47-2040	Summary	122.3	134.5	0.1	0.1	12.1	9.9	11.9

Carpet installers	47-2041	Line item	40.4	44.4	0.0	0.0	3.9	9.8	3.9
Floor layers, except carpet, wood, and hard tiles	47-2042	Line item	16.3	18.0	0.0	0.0	1.6	10.0	1.6
Floor sanders and finishers	47-2043	Line item	7.3	8.0	0.0	0.0	0.7	9.8	0.7
Tile and marble setters	47-2044	Line item	58.3	64.2	0.0	0.0	5.8	10.0	5.7
Cement masons, concrete finishers, and terrazzo workers	47-2050	Summary	182.5	205.5	0.1	0.1	23.0	12.6	22.8
Cement masons and concrete finishers	47-2051	Line item	178.9	201.5	0.1	0.1	22.6	12.6	22.4
Terrazzo workers and finishers	47-2053	Line item	3.6	4.0	0.0	0.0	0.4	12.3	0.4
Construction laborers	47-2061	Line item	1,216.7	1,370.0	0.8	0.8	153.3	12.6	145.7
Construction equipment operators	47-2070	Summary	426.6	479.4	0.3	0.3	52.8	12.4	54.0
Paving, surfacing, and tamping equipment operators	47-2071	Line item	51.9	58.2	0.0	0.0	6.3	12.1	6.2
Pile-driver operators	47-2072	Line item	3.7	4.2	0.0	0.0	0.5	14.7	0.5
Operating engineers and other construction equipment operators	47-2073	Line item	371.1	417.1	0.2	0.2	45.9	12.4	47.3
Drywall installers, ceiling tile installers, and tapers	47-2080	Summary	143.2	144.7	0.1	0.1	1.5	1.1	12.6
Drywall and ceiling tile installers	47-2081	Line item	119.5	120.9	0.1	0.1	1.4	1.2	10.5
Tapers	47-2082	Line item	23.7	23.8	0.0	0.0	0.1	0.6	2.1
Electricians	47-2111	Line item	666.9	727.0	0.4	0.4	60.1	9.0	82.1
Glaziers	47-2121	Line item	50.1	55.4	0.0	0.0	5.3	10.6	6.5
Insulation workers	47-2130	Summary	59.5	62.7	0.0	0.0	3.2	5.4	6.6
Insulation workers, floor, ceiling, and wall	47-2131	Line item	30.9	31.4	0.0	0.0	0.4	1.3	3.3
Insulation workers, mechanical	47-2132	Line item	28.6	31.4	0.0	0.0	2.8	9.7	3.4
Painters and paperhangers	47-2140	Summary	387.3	411.0	0.2	0.2	23.7	6.1	35.9
Painters, construction and maintenance	47-2141	Line item	381.5	405.0	0.2	0.2	23.4	6.1	35.4
Paperhangers	47-2142	Line item	5.7	6.0	0.0	0.0	0.3	5.0	0.5
Pipelayers, plumbers, pipefitters, and steamfitters	47-2150	Summary	524.8	608.2	0.3	0.4	83.4	15.9	66.8
Pipelayers	47-2151	Line item	44.1	51.7	0.0	0.0	7.6	17.3	5.7
Plumbers, pipefitters, and steamfitters	47-2152	Line item	480.6	556.4	0.3	0.3	75.8	15.8	61.1
Plasterers and stucco masons	47-2161	Line item	27.7	28.8	0.0	0.0	1.1	4.0	2.7
Reinforcing iron and rebar workers	47-2171	Line item	20.1	22.5	0.0	0.0	2.4	12.1	2.4
Roofers	47-2181	Line item	146.2	162.7	0.1	0.1	16.5	11.3	16.6
Sheet metal workers	47-2211	Line item	138.9	151.0	0.1	0.1	12.0	8.7	16.2
Structural iron and steel workers	47-2221	Line item	70.2	79.2	0.0	0.0	9.0	12.8	8.7
Solar photovoltaic installers	47-2231	Line item	11.3	23.2	0.0	0.0	11.9	105.3	3.0
Helpers, construction trades	47-3000	Summary	232.7	262.8	0.1	0.2	30.1	12.9	37.4
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters	47-3011	Line item	24.1	27.0	0.0	0.0	2.9	12.1	3.8
Helpers--carpenters	47-3012	Line item	36.7	41.4	0.0	0.0	4.7	12.8	5.9
Helpers--electricians	47-3013	Line item	73.2	80.9	0.0	0.0	7.7	10.6	11.5
Helpers--painters, paperhangers, plasterers, and stucco masons	47-3014	Line item	10.9	11.4	0.0	0.0	0.5	4.1	1.6
Helpers--pipelayers, plumbers, pipefitters, and steamfitters	47-3015	Line item	55.5	65.8	0.0	0.0	10.3	18.6	9.5
Helpers--roofers	47-3016	Line item	10.2	11.5	0.0	0.0	1.3	12.4	1.6
Helpers, construction trades, all other	47-3019	Line item	22.1	24.8	0.0	0.0	2.7	12.1	3.5
Other construction and related workers	47-4000	Summary	435.8	480.5	0.3	0.3	44.6	10.2	53.2
Construction and building inspectors	47-4011	Line item	105.1	115.6	0.1	0.1	10.5	9.9	12.7
Elevator installers and repairers	47-4021	Line item	22.1	24.8	0.0	0.0	2.7	12.1	3.0
Fence erectors	47-4031	Line item	25.1	28.0	0.0	0.0	2.8	11.2	3.2
Hazardous materials removal workers	47-4041	Line item	46.2	54.1	0.0	0.0	7.9	17.1	6.7
Highway maintenance workers	47-4051	Line item	149.9	160.2	0.1	0.1	10.3	6.9	16.5
Rail-track laying and maintenance equipment operators	47-4061	Line item	14.0	15.2	0.0	0.0	1.2	8.6	1.5
Septic tank servicers and sewer pipe cleaners	47-4071	Line item	28.5	33.3	0.0	0.0	4.8	16.9	4.3
Miscellaneous construction and related workers	47-4090	Summary	44.8	49.3	0.0	0.0	4.5	10.0	5.3
Segmental pavers	47-4091	Line item	2.1	2.4	0.0	0.0	0.3	12.4	0.3
Construction and related workers, all other	47-4099	Line item	42.7	46.9	0.0	0.0	4.2	9.9	5.1
Extraction workers	47-5000	Summary	194.4	230.4	0.1	0.1	36.0	18.5	28.6
Derrick, rotary drill, and service unit operators, oil, gas, and mining	47-5010	Summary	69.2	85.8	0.0	0.1	16.6	24.0	10.8

Derrick operators, oil and gas	47-5011	Line item	11.1	13.9	0.0	0.0	2.8	25.7	1.8
Rotary drill operators, oil and gas	47-5012	Line item	16.7	20.8	0.0	0.0	4.0	24.2	2.6
Service unit operators, oil, gas, and mining	47-5013	Line item	41.4	51.1	0.0	0.0	9.7	23.4	6.4
Earth drillers, except oil and gas	47-5021	Line item	19.6	23.5	0.0	0.0	3.9	19.7	2.6
Explosives workers, ordnance handling experts, and blasters	47-5031	Line item	6.3	6.8	0.0	0.0	0.5	7.1	0.8
Mining machine operators	47-5040	Summary	20.6	19.9	0.0	0.0	-0.8	-3.7	2.3
Continuous mining machine operators	47-5041	Line item	12.3	11.8	0.0	0.0	-0.5	-3.9	1.4
Mine cutting and channeling machine operators	47-5042	Line item	6.1	5.8	0.0	0.0	-0.3	-4.7	0.7
Mining machine operators, all other	47-5049	Line item	2.2	2.2	0.0	0.0	0.0	0.1	0.3
Rock splitters, quarry	47-5051	Line item	3.7	3.5	0.0	0.0	-0.2	-6.3	0.4
Roof bolters, mining	47-5061	Line item	3.7	3.5	0.0	0.0	-0.2	-5.2	0.4
Roustabouts, oil and gas	47-5071	Line item	50.0	62.3	0.0	0.0	12.2	24.5	8.0
Helpers--extraction workers	47-5081	Line item	17.0	20.3	0.0	0.0	3.3	19.7	2.6
Extraction workers, all other	47-5099	Line item	4.2	4.8	0.0	0.0	0.7	15.9	0.6
Installation, maintenance, and repair occupations	49-0000	Summary	5,905.4	6,301.5	3.8	3.8	396.1	6.7	611.7
Supervisors of installation, maintenance, and repair workers	49-1000	Summary	462.2	495.0	0.3	0.3	32.8	7.1	43.4
First-line supervisors of mechanics, installers, and repairers	49-1011	Line item	462.2	495.0	0.3	0.3	32.8	7.1	43.4
Electrical and electronic equipment mechanics, installers, and repairers	49-2000	Summary	628.1	623.0	0.4	0.4	-5.1	-0.8	61.1
Computer, automated teller, and office machine repairers	49-2011	Line item	119.5	118.6	0.1	0.1	-0.8	-0.7	11.4
Radio and telecommunications equipment installers and repairers	49-2020	Summary	252.1	234.9	0.2	0.1	-17.1	-6.8	23.6
Radio, cellular, and tower equipment installers and repairs	49-2021	Line item	14.5	15.3	0.0	0.0	0.8	5.5	1.6
Telecommunications equipment installers and repairers, except line installers	49-2022	Line item	237.6	219.6	0.2	0.1	-17.9	-7.6	21.9
Miscellaneous electrical and electronic equipment mechanics, installers, and repairers	49-2090	Summary	256.5	269.4	0.2	0.2	12.9	5.0	26.1
Avionics technicians	49-2091	Line item	17.5	18.6	0.0	0.0	1.1	6.0	1.5
Electric motor, power tool, and related repairers	49-2092	Line item	17.3	18.6	0.0	0.0	1.2	7.0	1.8
Electrical and electronics installers and repairers, transportation	49-2093	Line item	13.9	14.3	0.0	0.0	0.4	2.9	1.3
Electrical and electronics repairers, commercial and industrial	49-2094	Line item	68.3	69.9	0.0	0.0	1.6	2.4	6.1
Electrical and electronics repairers, powerhouse, substation, and	49-2095	Line item	23.4	24.3	0.0	0.0	0.9	3.7	2.1
Electronic equipment installers and repairers, motor vehicles	49-2096	Line item	12.1	9.0	0.0	0.0	-3.0	-25.2	0.7
Electronic home entertainment equipment installers and repairers	49-2097	Line item	31.7	32.1	0.0	0.0	0.4	1.2	3.3
Security and fire alarm systems installers	49-2098	Line item	72.3	82.6	0.0	0.0	10.4	14.4	9.4
Vehicle and mobile equipment mechanics, installers, and repairers	49-3000	Summary	1,750.2	1,869.7	1.1	1.1	119.5	6.8	180.9
Aircraft mechanics and service technicians	49-3011	Line item	132.0	138.4	0.1	0.1	6.4	4.9	10.8
Automotive technicians and repairers	49-3020	Summary	930.0	992.7	0.6	0.6	62.8	6.7	95.1
Automotive body and related repairers	49-3021	Line item	160.4	174.3	0.1	0.1	13.9	8.7	17.2
Automotive glass installers and repairers	49-3022	Line item	19.6	20.9	0.0	0.0	1.3	6.6	2.1
Automotive service technicians and mechanics	49-3023	Line item	749.9	797.5	0.5	0.5	47.6	6.3	75.9
Bus and truck mechanics and diesel engine specialists	49-3031	Line item	278.8	305.3	0.2	0.2	26.5	9.5	28.3
Heavy vehicle and mobile equipment service technicians and	49-3040	Summary	192.1	206.8	0.1	0.1	14.7	7.7	20.2
Farm equipment mechanics and service technicians	49-3041	Line item	42.5	45.6	0.0	0.0	3.2	7.4	4.5
Mobile heavy equipment mechanics, except engines	49-3042	Line item	127.4	137.8	0.1	0.1	10.4	8.2	13.5
Rail car repairers	49-3043	Line item	22.3	23.4	0.0	0.0	1.1	5.1	2.3
Small engine mechanics	49-3050	Summary	79.3	84.0	0.1	0.1	4.7	5.9	8.8
Motorboat mechanics and service technicians	49-3051	Line item	23.4	23.5	0.0	0.0	0.1	0.6	2.4
Motorcycle mechanics	49-3052	Line item	18.3	18.6	0.0	0.0	0.3	1.4	1.9
Outdoor power equipment and other small engine mechanics	49-3053	Line item	37.6	41.9	0.0	0.0	4.3	11.4	4.5
Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	49-3090	Summary	138.0	142.4	0.1	0.1	4.4	3.2	17.7
Bicycle repairers	49-3091	Line item	12.4	16.1	0.0	0.0	3.7	29.4	2.1
Recreational vehicle service technicians	49-3092	Line item	13.8	13.7	0.0	0.0	-0.1	-1.1	1.7
Tire repairers and changers	49-3093	Line item	111.7	112.6	0.1	0.1	0.9	0.8	13.9
Other installation, maintenance, and repair occupations	49-9000	Summary	3,065.0	3,313.8	2.0	2.0	248.9	8.1	326.3

Control and valve installers and repairers	49-9010	Summary	67.3	71.7	0.0	0.0	4.4	6.6	5.6
Mechanical door repairers	49-9011	Line item	20.4	22.5	0.0	0.0	2.1	10.4	1.8
Control and valve installers and repairers, except mechanical door	49-9012	Line item	46.9	49.2	0.0	0.0	2.3	5.0	3.8
Heating, air conditioning, and refrigeration mechanics and installers	49-9021	Line item	332.9	382.0	0.2	0.2	49.1	14.7	38.7
Home appliance repairers	49-9031	Line item	46.6	46.2	0.0	0.0	-0.4	-0.9	4.2
Industrial machinery installation, repair, and maintenance workers	49-9040	Summary	477.7	510.0	0.3	0.3	32.3	6.8	46.9
Industrial machinery mechanics	49-9041	Line item	346.9	370.4	0.2	0.2	23.5	6.8	33.0
Maintenance workers, machinery	49-9043	Line item	89.7	94.7	0.1	0.1	5.0	5.6	9.8
Millwrights	49-9044	Line item	39.5	43.4	0.0	0.0	3.9	9.8	4.0
Refractory materials repairers, except brickmasons	49-9045	Line item	1.6	1.5	0.0	0.0	-0.1	-3.5	0.1
Line installers and repairers	49-9050	Summary	227.0	245.5	0.1	0.1	18.5	8.1	22.4
Electrical power-line installers and repairers	49-9051	Line item	120.9	137.7	0.1	0.1	16.8	13.9	11.7
Telecommunications line installers and repairers	49-9052	Line item	106.1	107.8	0.1	0.1	1.7	1.6	10.7
Precision instrument and equipment repairers	49-9060	Summary	73.8	76.5	0.0	0.0	2.7	3.7	6.7
Camera and photographic equipment repairers	49-9061	Line item	4.0	4.2	0.0	0.0	0.1	3.3	0.4
Medical equipment repairers	49-9062	Line item	47.1	49.6	0.0	0.0	2.5	5.3	4.4
Musical instrument repairers and tuners	49-9063	Line item	8.3	8.5	0.0	0.0	0.2	2.3	0.7
Watch repairers	49-9064	Line item	1.8	1.3	0.0	0.0	-0.5	-28.7	0.1
Precision instrument and equipment repairers, all other	49-9069	Line item	12.6	12.9	0.0	0.0	0.4	2.9	1.1
Maintenance and repair workers, general	49-9071	Line item	1,432.6	1,545.3	0.9	0.9	112.7	7.9	154.7
Wind turbine service technicians	49-9081	Line item	5.8	11.3	0.0	0.0	5.5	96.1	1.4
Miscellaneous installation, maintenance, and repair workers	49-9090	Summary	401.4	425.5	0.3	0.3	24.1	6.0	45.6
Coin, vending, and amusement machine servicers and repairers	49-9091	Line item	36.6	32.1	0.0	0.0	-4.6	-12.4	3.3
Commercial divers	49-9092	Line item	4.1	4.5	0.0	0.0	0.4	10.6	0.4
Fabric menders, except garment	49-9093	Line item	0.7	0.6	0.0	0.0	-0.1	-7.6	0.1
Locksmiths and safe repairers	49-9094	Line item	28.7	27.8	0.0	0.0	-0.9	-3.2	2.5
Manufactured building and mobile home installers	49-9095	Line item	4.3	4.0	0.0	0.0	-0.4	-8.8	0.3
Riggers	49-9096	Line item	20.9	22.9	0.0	0.0	2.1	9.8	2.3
Signal and track switch repairers	49-9097	Line item	10.0	10.1	0.0	0.0	0.1	1.1	1.0
Helpers--installation, maintenance, and repair workers	49-9098	Line item	120.2	133.5	0.1	0.1	13.3	11.1	17.0
Installation, maintenance, and repair workers, all other	49-9099	Line item	175.8	189.9	0.1	0.1	14.1	8.0	18.6
Production occupations	51-0000	Summary	9,356.9	8,971.6	6.0	5.4	-385.3	-4.1	993.8
Supervisors of production workers	51-1000	Summary	621.4	620.9	0.4	0.4	-0.5	-0.1	59.5
First-line supervisors of production and operating workers	51-1011	Line item	621.4	620.9	0.4	0.4	-0.5	-0.1	59.5
Assemblers and fabricators	51-2000	Summary	1,819.3	1,560.2	1.2	0.9	-259.1	-14.2	167.3
Aircraft structure, surfaces, rigging, and systems assemblers	51-2011	Line item	41.8	34.5	0.0	0.0	-7.3	-17.4	3.2
Electrical, electronics, and electromechanical assemblers	51-2020	Summary	278.7	220.7	0.2	0.1	-58.0	-20.8	23.2
Coil winders, tapers, and finishers	51-2021	Line item	14.1	11.2	0.0	0.0	-2.9	-20.6	1.2
Electrical and electronic equipment assemblers	51-2022	Line item	218.9	173.6	0.1	0.1	-45.3	-20.7	18.2
Electromechanical equipment assemblers	51-2023	Line item	45.7	36.0	0.0	0.0	-9.7	-21.3	3.8
Engine and other machine assemblers	51-2031	Line item	38.0	31.5	0.0	0.0	-6.5	-17.2	2.8
Structural metal fabricators and fitters	51-2041	Line item	77.0	65.2	0.0	0.0	-11.8	-15.3	6.5
Miscellaneous assemblers and fabricators	51-2090	Summary	1,383.8	1,208.2	0.9	0.7	-175.6	-12.7	131.7
Fiberglass laminators and fabricators	51-2091	Line item	19.7	19.4	0.0	0.0	-0.3	-1.3	2.2
Team assemblers	51-2092	Line item	1,130.9	987.9	0.7	0.6	-143.0	-12.6	107.7
Timing device assemblers and adjusters	51-2093	Line item	0.8	0.6	0.0	0.0	-0.2	-19.9	0.1
Assemblers and fabricators, all other	51-2099	Line item	232.4	200.3	0.1	0.1	-32.2	-13.8	21.7
Food processing workers	51-3000	Summary	823.0	849.9	0.5	0.5	26.9	3.3	110.1
Bakers	51-3011	Line item	191.0	203.1	0.1	0.1	12.1	6.3	28.7
Butchers and other meat, poultry, and fish processing workers	51-3020	Summary	374.6	384.0	0.2	0.2	9.4	2.5	46.9
Butchers and meat cutters	51-3021	Line item	135.7	143.4	0.1	0.1	7.7	5.7	17.7
Meat, poultry, and fish cutters and trimmers	51-3022	Line item	156.4	157.7	0.1	0.1	1.2	0.8	19.1
Slaughterers and meat packers	51-3023	Line item	82.5	82.9	0.1	0.0	0.4	0.5	10.1
Miscellaneous food processing workers	51-3090	Summary	257.4	262.8	0.2	0.2	5.4	2.1	34.6

Food and tobacco roasting, baking, and drying machine operators and tenders	51-3091	Line item	20.1	20.0	0.0	0.0	-0.1	-0.6	2.3
Food batchmakers	51-3092	Line item	153.7	155.8	0.1	0.1	2.1	1.3	21.6
Food cooking machine operators and tenders	51-3093	Line item	37.2	38.1	0.0	0.0	1.0	2.6	5.2
Food processing workers, all other	51-3099	Line item	46.4	48.9	0.0	0.0	2.5	5.4	5.5
Metal workers and plastic workers	51-4000	Summary	1,954.7	1,886.5	1.3	1.1	-68.2	-3.5	192.1
Computer control programmers and operators	51-4010	Summary	170.7	176.4	0.1	0.1	5.7	3.3	17.5
Computer-controlled machine tool operators, metal and plastic	51-4011	Line item	145.7	147.3	0.1	0.1	1.6	1.1	14.5
Computer numerically controlled machine tool programmers, metal and plastic	51-4012	Line item	25.1	29.2	0.0	0.0	4.1	16.3	3.1
Forming machine setters, operators, and tenders, metal and plastic	51-4020	Summary	120.5	102.1	0.1	0.1	-18.4	-15.3	9.3
Extruding and drawing machine setters, operators, and tenders, metal and plastic	51-4021	Line item	72.3	61.3	0.0	0.0	-11.0	-15.2	5.6
Forging machine setters, operators, and tenders, metal and plastic	51-4022	Line item	19.2	15.5	0.0	0.0	-3.7	-19.2	1.4
Rolling machine setters, operators, and tenders, metal and plastic	51-4023	Line item	29.0	25.3	0.0	0.0	-3.7	-12.9	2.3
Machine tool cutting setters, operators, and tenders, metal and plastic	51-4030	Summary	332.4	299.3	0.2	0.2	-33.0	-9.9	30.9
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	51-4031	Line item	192.7	175.9	0.1	0.1	-16.8	-8.7	18.9
Drilling and boring machine tool setters, operators, and tenders, metal and plastic	51-4032	Line item	12.3	9.9	0.0	0.0	-2.4	-19.4	0.9
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	51-4033	Line item	76.2	68.5	0.0	0.0	-7.6	-10.0	6.8
Lathe and turning machine tool setters, operators, and tenders, metal and plastic	51-4034	Line item	33.7	30.8	0.0	0.0	-2.8	-8.4	2.9
Milling and planing machine setters, operators, and tenders, metal and plastic	51-4035	Line item	17.6	14.2	0.0	0.0	-3.4	-19.3	1.3
Machinists	51-4041	Line item	396.2	404.6	0.3	0.2	8.5	2.1	40.8
Metal furnace operators, tenders, pourers, and casters	51-4050	Summary	26.2	22.8	0.0	0.0	-3.4	-13.1	2.0
Metal-refining furnace operators and tenders	51-4051	Line item	17.7	16.3	0.0	0.0	-1.4	-8.1	1.5
Pourers and casters, metal	51-4052	Line item	8.4	6.5	0.0	0.0	-2.0	-23.4	0.5
Model makers and patternmakers, metal and plastic	51-4060	Summary	9.7	8.4	0.0	0.0	-1.3	-13.3	0.8
Model makers, metal and plastic	51-4061	Line item	6.3	5.5	0.0	0.0	-0.8	-12.2	0.6
Patternmakers, metal and plastic	51-4062	Line item	3.4	2.9	0.0	0.0	-0.5	-15.5	0.3
Molders and molding machine setters, operators, and tenders, metal and plastic	51-4070	Summary	157.9	133.1	0.1	0.1	-24.8	-15.7	13.9
Foundry mold and coremakers	51-4071	Line item	12.5	9.5	0.0	0.0	-3.0	-24.0	0.9
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	51-4072	Line item	145.4	123.6	0.1	0.1	-21.8	-15.0	12.9
Multiple machine tool setters, operators, and tenders, metal and plastic	51-4081	Line item	117.8	114.7	0.1	0.1	-3.1	-2.6	12.0
Tool and die makers	51-4111	Line item	72.5	67.2	0.0	0.0	-5.3	-7.3	6.0
Welding, soldering, and brazing workers	51-4120	Summary	454.0	471.2	0.3	0.3	17.2	3.8	50.2
Welders, cutters, solderers, and brazers	51-4121	Line item	404.8	427.0	0.3	0.3	22.2	5.5	45.8
Welding, soldering, and brazing machine setters, operators, and	51-4122	Line item	49.2	44.2	0.0	0.0	-5.1	-10.3	4.4
Miscellaneous metal workers and plastic workers	51-4190	Summary	96.7	86.6	0.1	0.1	-10.2	-10.5	8.6
Heat treating equipment setters, operators, and tenders, metal and	51-4191	Line item	19.8	17.0	0.0	0.0	-2.8	-14.1	1.7
Layout workers, metal and plastic	51-4192	Line item	9.2	8.5	0.0	0.0	-0.6	-6.8	0.9
Plating and coating machine setters, operators, and tenders, metal and plastic	51-4193	Line item	35.3	30.4	0.0	0.0	-4.9	-13.8	2.8
Tool grinders, filers, and sharpeners	51-4194	Line item	9.5	9.2	0.0	0.0	-0.3	-3.5	1.1
Metal workers and plastic workers, all other	51-4199	Line item	23.0	21.4	0.0	0.0	-1.5	-6.6	2.2
Printing workers	51-5100	Summary	267.3	237.9	0.2	0.1	-29.4	-11.0	25.1
Prepress technicians and workers	51-5111	Line item	34.6	28.0	0.0	0.0	-6.6	-19.0	3.0
Printing press operators	51-5112	Line item	178.7	162.0	0.1	0.1	-16.8	-9.4	16.0
Print binding and finishing workers	51-5113	Line item	54.0	47.9	0.0	0.0	-6.1	-11.3	6.1

Textile, apparel, and furnishings workers	51-6000	Summary	654.3	612.0	0.4	0.4	-42.3	-6.5	72.3
Laundry and dry-cleaning workers	51-6011	Line item	220.1	219.3	0.1	0.1	-0.7	-0.3	29.4
Pressers, textile, garment, and related materials	51-6021	Line item	45.0	42.0	0.0	0.0	-3.0	-6.7	5.2
Sewing machine operators	51-6031	Line item	153.9	132.0	0.1	0.1	-21.9	-14.2	12.8
Shoe and leather workers	51-6040	Summary	14.6	14.1	0.0	0.0	-0.6	-4.0	1.4
Shoe and leather workers and repairers	51-6041	Line item	11.0	10.7	0.0	0.0	-0.3	-2.5	1.0
Shoe machine operators and tenders	51-6042	Line item	3.6	3.3	0.0	0.0	-0.3	-8.5	0.4
Tailors, dressmakers, and sewers	51-6050	Summary	57.7	57.1	0.0	0.0	-0.7	-1.2	7.1
Sewers, hand	51-6051	Line item	13.5	12.9	0.0	0.0	-0.5	-4.0	1.6
Tailors, dressmakers, and custom sewers	51-6052	Line item	44.3	44.1	0.0	0.0	-0.1	-0.3	5.5
Textile machine setters, operators, and tenders	51-6060	Summary	79.3	65.9	0.1	0.0	-13.4	-16.9	7.4
Textile bleaching and dyeing machine operators and tenders	51-6061	Line item	11.3	9.4	0.0	0.0	-1.9	-17.0	1.0
Textile cutting machine setters, operators, and tenders	51-6062	Line item	15.0	12.6	0.0	0.0	-2.4	-15.8	1.6
Textile knitting and weaving machine setters, operators, and tenders	51-6063	Line item	22.2	18.1	0.0	0.0	-4.1	-18.3	2.1
Textile winding, twisting, and drawing out machine setters, operators, and tenders	51-6064	Line item	30.8	25.8	0.0	0.0	-5.0	-16.3	2.6
Miscellaneous textile, apparel, and furnishings workers	51-6090	Summary	83.7	81.7	0.1	0.0	-2.0	-2.4	8.9
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	51-6091	Line item	20.2	18.5	0.0	0.0	-1.7	-8.5	2.1
Fabric and apparel patternmakers	51-6092	Line item	5.5	4.7	0.0	0.0	-0.8	-15.0	0.5
Upholsterers	51-6093	Line item	41.6	42.7	0.0	0.0	1.0	2.5	4.4
Textile, apparel, and furnishings workers, all other	51-6099	Line item	16.3	15.8	0.0	0.0	-0.5	-3.0	1.9
Woodworkers	51-7000	Summary	279.3	285.1	0.2	0.2	5.9	2.1	30.4
Cabinetmakers and bench carpenters	51-7011	Line item	109.3	113.0	0.1	0.1	3.7	3.4	11.7
Furniture finishers	51-7021	Line item	22.4	22.9	0.0	0.0	0.6	2.5	2.1
Model makers and patternmakers, wood	51-7030	Summary	3.7	3.8	0.0	0.0	0.1	3.8	0.4
Model makers, wood	51-7031	Line item	1.9	2.0	0.0	0.0	0.1	3.6	0.2
Patternmakers, wood	51-7032	Line item	1.8	1.8	0.0	0.0	0.1	3.9	0.2
Woodworking machine setters, operators, and tenders	51-7040	Summary	131.9	132.8	0.1	0.1	1.0	0.7	14.7
Sawing machine setters, operators, and tenders, wood	51-7041	Line item	54.8	55.2	0.0	0.0	0.4	0.8	6.3
Woodworking machine setters, operators, and tenders, except	51-7042	Line item	77.1	77.6	0.0	0.0	0.6	0.7	8.4
Woodworkers, all other	51-7099	Line item	12.1	12.6	0.0	0.0	0.5	4.1	1.4
Plant and system operators	51-8000	Summary	314.0	309.7	0.2	0.2	-4.3	-1.4	27.8
Power plant operators, distributors, and dispatchers	51-8010	Summary	54.7	54.2	0.0	0.0	-0.6	-1.0	4.6
Nuclear power reactor operators	51-8011	Line item	7.0	6.3	0.0	0.0	-0.7	-10.2	0.5
Power distributors and dispatchers	51-8012	Line item	11.6	11.3	0.0	0.0	-0.3	-2.5	1.0
Power plant operators	51-8013	Line item	36.1	36.5	0.0	0.0	0.5	1.3	3.2
Stationary engineers and boiler operators	51-8021	Line item	35.7	37.4	0.0	0.0	1.7	4.8	3.9
Water and wastewater treatment plant and system operators	51-8031	Line item	119.2	115.4	0.1	0.1	-3.8	-3.2	9.2
Miscellaneous plant and system operators	51-8090	Summary	104.4	102.7	0.1	0.1	-1.7	-1.6	10.0
Chemical plant and system operators	51-8091	Line item	33.2	30.1	0.0	0.0	-3.1	-9.2	2.8
Gas plant operators	51-8092	Line item	17.3	17.3	0.0	0.0	0.0	0.0	1.7
Petroleum pump system operators, refinery operators, and gaugers	51-8093	Line item	41.8	43.0	0.0	0.0	1.2	2.8	4.3
Plant and system operators, all other	51-8099	Line item	12.1	12.4	0.0	0.0	0.2	1.9	1.2
Other production occupations	51-9000	Summary	2,623.7	2,609.5	1.7	1.6	-14.2	-0.5	309.2
Chemical processing machine setters, operators, and tenders	51-9010	Summary	121.3	117.7	0.1	0.1	-3.5	-2.9	12.3
Chemical equipment operators and tenders	51-9011	Line item	74.1	70.4	0.0	0.0	-3.6	-4.9	7.3
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	51-9012	Line item	47.2	47.3	0.0	0.0	0.1	0.2	5.0
Crushing, grinding, polishing, mixing, and blending workers	51-9020	Summary	187.7	176.2	0.1	0.1	-11.5	-6.1	19.0
Crushing, grinding, and polishing machine setters, operators, and	51-9021	Line item	30.2	28.2	0.0	0.0	-2.0	-6.7	3.0
Grinding and polishing workers, hand	51-9022	Line item	26.6	21.1	0.0	0.0	-5.4	-20.5	2.1
Mixing and blending machine setters, operators, and tenders	51-9023	Line item	131.0	126.9	0.1	0.1	-4.1	-3.1	13.9
Cutting workers	51-9030	Summary	78.3	74.3	0.1	0.0	-4.0	-5.1	8.2

Cutters and trimmers, hand	51-9031	Line item	14.7	13.2	0.0	0.0	-1.5	-10.0	1.4
Cutting and slicing machine setters, operators, and tenders	51-9032	Line item	63.6	61.1	0.0	0.0	-2.5	-3.9	6.8
Extruding, forming, pressing, and compacting machine setters, operators, and tenders	51-9041	Line item	71.4	67.5	0.0	0.0	-3.8	-5.4	7.9
Furnace, kiln, oven, drier, and kettle operators and tenders	51-9051	Line item	21.9	20.8	0.0	0.0	-1.1	-5.0	2.0
Inspectors, testers, sorters, samplers, and weighers	51-9061	Line item	520.7	465.2	0.3	0.3	-55.5	-10.7	52.7
Jewelers and precious stone and metal workers	51-9071	Line item	37.7	36.5	0.0	0.0	-1.2	-3.1	3.7
Medical, dental, and ophthalmic laboratory technicians	51-9080	Summary	82.2	93.2	0.1	0.1	11.0	13.4	10.7
Dental laboratory technicians	51-9081	Line item	38.1	43.7	0.0	0.0	5.5	14.5	5.0
Medical appliance technicians	51-9082	Line item	15.0	17.0	0.0	0.0	2.0	13.7	2.0
Ophthalmic laboratory technicians	51-9083	Line item	29.1	32.5	0.0	0.0	3.5	11.9	3.7
Packaging and filling machine operators and tenders	51-9111	Line item	383.0	389.7	0.2	0.2	6.7	1.7	44.6
Painting workers	51-9120	Summary	164.2	168.6	0.1	0.1	4.3	2.6	17.6
Coating, painting, and spraying machine setters, operators, and	51-9121	Line item	89.9	90.1	0.1	0.1	0.2	0.2	9.3
Painters, transportation equipment	51-9122	Line item	58.1	62.0	0.0	0.0	4.0	6.9	6.6
Painting, coating, and decorating workers	51-9123	Line item	16.3	16.5	0.0	0.0	0.2	1.1	1.7
Semiconductor processors	51-9141	Line item	25.5	24.2	0.0	0.0	-1.3	-5.1	2.7
Photographic process workers and processing machine operators	51-9151	Line item	26.9	21.9	0.0	0.0	-4.9	-18.4	3.3
Miscellaneous production workers	51-9190	Summary	902.8	953.4	0.6	0.6	50.6	5.6	124.5
Adhesive bonding machine operators and tenders	51-9191	Line item	17.0	16.6	0.0	0.0	-0.5	-2.7	1.8
Cleaning, washing, and metal pickling equipment operators and	51-9192	Line item	17.2	17.3	0.0	0.0	0.1	0.4	2.2
Cooling and freezing equipment operators and tenders	51-9193	Line item	8.7	8.8	0.0	0.0	0.2	1.9	1.0
Etchers and engravers	51-9194	Line item	10.6	10.7	0.0	0.0	0.1	1.0	1.3
Molders, shapers, and casters, except metal and plastic	51-9195	Line item	43.0	42.5	0.0	0.0	-0.4	-1.0	4.2
Paper goods machine setters, operators, and tenders	51-9196	Line item	94.6	86.1	0.1	0.1	-8.5	-9.0	8.3
Tire builders	51-9197	Line item	22.3	19.6	0.0	0.0	-2.7	-12.1	2.1
Helpers--production workers	51-9198	Line item	426.0	475.5	0.3	0.3	49.5	11.6	72.0
Production workers, all other	51-9199	Line item	263.5	276.3	0.2	0.2	12.8	4.9	31.6
Transportation and material moving occupations	53-0000	Summary	10,274.2	10,918.1	6.6	6.5	643.9	6.3	1,334.8
Supervisors of transportation and material moving workers	53-1000	Summary	396.2	425.9	0.3	0.3	29.7	7.5	44.4
Aircraft cargo handling supervisors	53-1011	Line item	7.6	8.1	0.0	0.0	0.5	5.9	0.8
First-line supervisors of helpers, laborers, and material movers, hand	53-1021	Line item	184.4	200.1	0.1	0.1	15.7	8.5	21.0
First-line supervisors of transportation and material-moving machine and vehicle operators	53-1031	Line item	204.2	217.7	0.1	0.1	13.6	6.6	22.6
Air transportation workers	53-2000	Summary	275.3	293.2	0.2	0.2	18.0	6.5	29.6
Aircraft pilots and flight engineers	53-2010	Summary	124.8	129.2	0.1	0.1	4.4	3.5	12.1
Airline pilots, copilots, and flight engineers	53-2011	Line item	84.0	86.9	0.1	0.1	2.9	3.4	8.1
Commercial pilots	53-2012	Line item	40.8	42.3	0.0	0.0	1.5	3.8	4.0
Air traffic controllers and airfield operations specialists	53-2020	Summary	33.8	35.5	0.0	0.0	1.6	4.9	3.3
Air traffic controllers	53-2021	Line item	24.9	25.8	0.0	0.0	0.9	3.5	2.4
Airfield operations specialists	53-2022	Line item	8.9	9.7	0.0	0.0	0.8	8.8	0.9
Flight attendants	53-2031	Line item	116.6	128.5	0.1	0.1	11.9	10.2	14.2
Motor vehicle operators	53-3000	Summary	4,358.9	4,598.8	2.8	2.7	239.9	5.5	508.1
Ambulance drivers and attendants, except emergency medical	53-3011	Line item	17.3	21.1	0.0	0.0	3.8	21.9	3.1
Bus drivers	53-3020	Summary	687.2	729.6	0.4	0.4	42.5	6.2	88.7
Bus drivers, transit and intercity	53-3021	Line item	179.3	195.1	0.1	0.1	15.9	8.8	23.9
Bus drivers, school or special client	53-3022	Line item	507.9	534.5	0.3	0.3	26.6	5.2	64.8
Driver/sales workers and truck drivers	53-3030	Summary	3,293.1	3,466.2	2.1	2.1	173.1	5.3	372.9
Driver/sales workers	53-3031	Line item	467.9	462.4	0.3	0.3	-5.5	-1.2	48.4
Heavy and tractor-trailer truck drivers	53-3032	Line item	1,871.7	1,985.5	1.2	1.2	113.8	6.1	214.3
Light truck or delivery services drivers	53-3033	Line item	953.5	1,018.3	0.6	0.6	64.8	6.8	110.2
Taxi drivers and chauffeurs	53-3041	Line item	305.1	319.9	0.2	0.2	14.7	4.8	32.7
Motor vehicle operators, all other	53-3099	Line item	56.2	62.0	0.0	0.0	5.8	10.3	10.7
Rail transportation workers	53-4000	Summary	122.9	120.6	0.1	0.1	-2.3	-1.9	10.4

Locomotive engineers and operators	53-4010	Summary	44.4	42.5	0.0	0.0	-1.8	-4.1	3.3
Locomotive engineers	53-4011	Line item	38.8	37.7	0.0	0.0	-1.1	-2.8	3.0
Locomotive firers	53-4012	Line item	1.2	0.3	0.0	0.0	-0.9	-78.6	0.0
Rail yard engineers, dinkey operators, and hostlers	53-4013	Line item	4.4	4.6	0.0	0.0	0.2	3.7	0.4
Railroad brake, signal, and switch operators	53-4021	Line item	19.3	19.0	0.0	0.0	-0.3	-1.6	1.7
Railroad conductors and yardmasters	53-4031	Line item	41.8	41.0	0.0	0.0	-0.9	-2.1	3.7
Subway and streetcar operators	53-4041	Line item	12.8	13.4	0.0	0.0	0.5	4.1	1.3
Rail transportation workers, all other	53-4099	Line item	4.6	4.8	0.0	0.0	0.1	3.2	0.4
Water transportation workers	53-5000	Summary	86.3	93.2	0.1	0.1	6.9	8.0	10.5
Sailors and marine oilers	53-5011	Line item	33.8	36.4	0.0	0.0	2.6	7.6	4.4
Ship and boat captains and operators	53-5020	Summary	42.4	46.1	0.0	0.0	3.7	8.7	4.8
Captains, mates, and pilots of water vessels	53-5021	Line item	38.8	42.2	0.0	0.0	3.4	8.8	4.4
Motorboat operators	53-5022	Line item	3.6	3.9	0.0	0.0	0.3	7.6	0.4
Ship engineers	53-5031	Line item	10.1	10.8	0.0	0.0	0.7	6.5	1.3
Other transportation workers	53-6000	Summary	356.5	384.4	0.2	0.2	27.9	7.8	55.4
Bridge and lock tenders	53-6011	Line item	3.7	3.8	0.0	0.0	0.2	4.9	0.4
Parking lot attendants	53-6021	Line item	151.6	160.6	0.1	0.1	9.0	6.0	23.8
Automotive and watercraft service attendants	53-6031	Line item	110.0	121.7	0.1	0.1	11.7	10.6	20.0
Traffic technicians	53-6041	Line item	6.6	7.2	0.0	0.0	0.6	9.1	0.8
Transportation inspectors	53-6051	Line item	28.2	29.8	0.0	0.0	1.7	5.9	2.9
Transportation attendants, except flight attendants	53-6061	Line item	18.5	20.0	0.0	0.0	1.6	8.4	2.7
Transportation workers, all other	53-6099	Line item	38.0	41.2	0.0	0.0	3.1	8.3	4.8
Material moving workers	53-7000	Summary	4,678.0	5,001.9	3.0	3.0	323.9	6.9	676.3
Conveyor operators and tenders	53-7011	Line item	28.1	27.7	0.0	0.0	-0.3	-1.2	3.7
Crane and tower operators	53-7021	Line item	46.0	50.0	0.0	0.0	4.0	8.6	5.3
Dredge, excavating, and loading machine operators	53-7030	Summary	55.1	59.3	0.0	0.0	4.3	7.8	6.6
Dredge operators	53-7031	Line item	1.8	1.9	0.0	0.0	0.1	5.3	0.2
Excavating and loading machine and dragline operators	53-7032	Line item	50.6	54.9	0.0	0.0	4.3	8.4	6.1
Loading machine operators, underground mining	53-7033	Line item	2.6	2.5	0.0	0.0	-0.1	-3.2	0.3
Hoist and winch operators	53-7041	Line item	2.9	2.9	0.0	0.0	0.0	-0.7	0.4
Industrial truck and tractor operators	53-7051	Line item	549.9	586.1	0.4	0.3	36.2	6.6	65.9
Laborers and material movers, hand	53-7060	Summary	3,796.0	4,051.3	2.4	2.4	255.3	6.7	566.9
Cleaners of vehicles and equipment	53-7061	Line item	369.2	409.1	0.2	0.2	39.9	10.8	57.8
Laborers and freight, stock, and material movers, hand	53-7062	Line item	2,628.4	2,829.2	1.7	1.7	200.8	7.6	388.6
Machine feeders and offbearers	53-7063	Line item	87.7	89.3	0.1	0.1	1.6	1.8	12.0
Packers and packagers, hand	53-7064	Line item	710.8	723.8	0.5	0.4	13.0	1.8	108.4
Pumping station operators	53-7070	Summary	27.3	31.6	0.0	0.0	4.3	15.6	3.9
Gas compressor and gas pumping station operators	53-7071	Line item	3.9	4.0	0.0	0.0	0.1	3.3	0.5
Pump operators, except wellhead pumpers	53-7072	Line item	11.9	13.5	0.0	0.0	1.6	13.8	1.7
Wellhead pumpers	53-7073	Line item	11.5	14.0	0.0	0.0	2.5	21.7	1.8
Refuse and recyclable material collectors	53-7081	Line item	136.0	153.6	0.1	0.1	17.7	13.0	18.9
Mine shuttle car operators	53-7111	Line item	1.5	1.2	0.0	0.0	-0.3	-21.9	0.1
Tank car, truck, and ship loaders	53-7121	Line item	10.8	11.4	0.0	0.0	0.6	5.2	1.4
Material moving workers, all other	53-7199	Line item	24.4	26.7	0.0	0.0	2.3	9.3	3.2

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