WAGE REPORT

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## Introduction

## Colorado Occupational Employment Statistics (OEWS)

May 2020
The Occupational Employment and Wage Statistics (OEWS) program is a Federal-State cooperative program that provides estimates of employment and hourly and annual wages for over 800 non-military detailed occupations in 22 major occupational groups.

In Colorado, 3,635 businesses were initially surveyed beginning in November of 2019 and 3,673 were initially surveyed beginning in May of 2020.
OEWS uses the Standard Occupational Classification (SOC) system, which was designed to be used by all Federal statistical agencies reporting occupational data.

In addition, the OEWS program uses definitions of industries found in the North American Industry Classification System (NAICS). The NAICS is used throughout the Federal Government to group establishments into industries based on the goods or services they produce.

After excluding establishments that were out of business or out of scope, a total of 81.1 percent of 6,833 businesses provided information on the job titles and wages of their employees. These data were combined with responses from the previous two years (four biannual surveys) to produce the May 2020 occupational estimates contained in this document. A detailed description of methodological aspects of the OEWS program can be found in the Technical Notes and Methodology section beginning on page 78.
This section will briefly describe cross-industry occupational employment and wage dynamics in statewide Colorado and its substate areas.

Tables and charts provide details of the cross-industry occupational statistics. Industryspecific employment and wage tables are also included.

## Highlights



The list of 20 highest-earning occupations in Colorado (Table 6) continues to be dominated by health/medical-related occupations, while half of the lowest-earning 20 occupations are in food preparation and serving (Table 7).

The real estate brokers occupation
is nearly five times as prevalent in Colorado as it is in the U.S. as a whole (Table 12a).


## 

## There are more Coloradans working as retail salespersons

$(70,060)$ than in any other occupation, accounting for 2.7 percent of total covered employment (Table 5).


The average hourly wage in 2020
was $\$ 1.52$ higher than the average hourly wage in 2019 (\$27.73) and $\$ 2.41$ higher than the average hourly wage in 2018 (\$26.84) (Table 3).



The health care and social assistance, retail trade, and professional, scientific, and technical services industries employ the most people
$(829,250)$ among the 20 industry groups surveyed, accounting for 32.2 percent of total employment (Table 2).

Colorado's average hourly wage (\$29.25) is $\$ 2.18$ higher than the national average (\$27.07).


Where you work matters: The Boulder Metropolitan Statistical
Area has the highest average (\$33.87) and median (\$26.33) wages in Colorado, while the Eastern and Southern Colorado Balance of State Area has the lowest average (\$21.32) and median (\$17.37) wages (Table 9).

## Statewide Overview

## Employment Distribution by Occupation

Total covered employment in Colorado was 2.58 million, decreasing by 100,490 over May 2019. Table 1 and Figure 1 show the distribution of employment and list average hourly wages among major occupational groups. The top three major groups (office and administrative support, sales and related, and food preparation and serving related) account for 31.0 percent of total employment in the state. Major groups with average hourly wages below the overall average of $\$ 29.25$ comprise 72.0 percent of total employment.

Table 1. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Colorado, May 2020)

| SOC Major Occupational Group | Average Hourly | Employment | Percent of Total Employment |
| :---: | :---: | :---: | :---: |
| Total all occupations | \$29.25 | 2,578,000 | 100.0\% |
| Office and administrative support | \$21.32 | 314,260 | 12.2\% |
| Sales and related | \$25.97 | 268,680 | 10.4\% |
| Food preparation and serving related | \$15.07 | 215,880 | 8.4\% |
| Business and financial operations | \$40.16 | 210,600 | 8.2\% |
| Transportation and material moving | \$21.06 | 199,170 | 7.7\% |
| Healthcare practitioners and technical | \$42.18 | 144,490 | 5.6\% |
| Educational instruction and library | \$27.98 | 140,310 | 5.4\% |
| Construction and extraction | \$25.59 | 140,070 | 5.4\% |
| Computer and mathematical | \$48.33 | 126,070 | 4.9\% |
| Management | \$67.65 | 115,380 | 4.5\% |
| Installation, maintenance, and repair | \$26.20 | 101,310 | 3.9\% |
| Production | \$21.08 | 99,340 | 3.9\% |
| Healthcare support | \$17.09 | 94,660 | 3.7\% |
| Building and grounds cleaning and maintenance | \$16.46 | 79,610 | 3.1\% |
| Architecture and engineering | \$45.96 | 66,610 | 2.6\% |
| Personal care and service | \$17.42 | 61,630 | 2.4\% |
| Protective service | \$26.59 | 55,410 | 2.1\% |
| Community and social service | \$25.46 | 41,230 | 1.6\% |
| Arts, design, entertainment, sports, and media | \$28.59 | 39,590 | 1.5\% |
| Life, physical, and social science | \$39.23 | 33,260 | 1.3\% |
| Legal | \$56.73 | 24,160 | 0.9\% |
| Farming, fishing, and forestry | \$17.15 | 6,290 | 0.2\% |

Figure 1. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Colorado, May 2020)


## Occupational Employment Distribution in Colorado and the U.S.

The distribution of employment among major occupational groups in Colorado and the U.S. is shown in Figure 2. With the exception of production occupations, which account for 6.2 percent of occupational employment nationwide but for only 4.0 percent in Colorado, differences between the State and the country as a whole were minimal. Colorado had higher proportions of employment in computer and mathematical ( 4.7 percent versus 3.1 percent nationwide), construction and extraction ( 5.5 percent versus 4.2 percent), business and financial operations ( 7.9 percent versus 5.6 percent), and sales and related occupations ( 11.0 percent versus 9.8 percent) and a smaller share of transportation and material moving ( 7.5 percent versus 8.5 percent) and management occupations ( 4.5 percent versus 5.5 percent). All other occupational groups differed by less than one percentage point.

Figure 2. Employment Distribution in Major Occupational Groups, Colorado vs United States (May 2020)


SOC Major Occupational Group

## Employment Distribution by Industry

As shown in Table 2 and Figure 3, five industries account for half of employment in Colorado, with more than 200,000 workers each: health care and social assistance; retail trade; professional, scientific, and technical services; accommodation and food services; and educational services. On the other end of the scale, the six smallest industries are real estate and rental and leasing; management of companies and enterprises; arts, entertainment, and recreation; mining; utilities; and agriculture, forestry, fishing, and hunting. These employ less than 60,000 workers each and, when combined, account for 6.8 percent of total employment.

Figure 3. Employment Distribution and Average Hourly Wage in Major Industry Groups (May 2020)


Table 2. Employment Distribution and Average Hourly Wage in Major Industry Groups (Colorado, May 2020)

| NAICS Sector | Average Hourly | Employment | Percent of Total Employment |
| :---: | :---: | :---: | :---: |
| Total all industries | \$29.25 | 2,578,000 | 100.0\% |
| Health care and social assistance | \$29.14 | 331,530 | 12.9\% |
| Retail trade | \$18.38 | 260,420 | 10.1\% |
| Professional, scientific, and technical services | \$46.11 | 237,300 | 9.2\% |
| Accommodation and food services | \$15.51 | 226,450 | 8.8\% |
| Educational services | \$28.91 | 225,990 | 8.8\% |
| Public administration | \$33.01 | 181,620 | 7.0\% |
| Construction | \$28.84 | 177,660 | 6.9\% |
| Administrative and support \& waste management and remediation services | \$22.53 | 153,680 | 6.0\% |
| Manufacturing | \$30.16 | 146,900 | 5.7\% |
| Finance and insurance | \$36.13 | 110,400 | 4.3\% |
| Wholesale trade | \$33.67 | 107,330 | 4.2\% |
| Transportation and warehousing | \$26.57 | 98,330 | 3.8\% |
| Information | \$43.40 | 72,550 | 2.8\% |
| Other services (except public administration) | \$23.65 | 72,260 | 2.8\% |
| Real estate and rental and leasing | \$26.04 | 51,760 | 2.0\% |
| Management of companies and enterprises | \$49.08 | 45,050 | 1.7\% |
| Arts, entertainment, and recreation | \$21.85 | 42,840 | 1.7\% |
| Mining | \$39.57 | 24,150 | 0.9\% |
| Utilities | \$44.18 | 8,370 | 0.3\% |
| Agriculture, forestry, fishing and hunting | \$18.25 | 3,410 | 0.1\% |

## Historical Employment and Wages

Total and major occupational group wages and employment from the 2010 through 2020 surveys are shown in Tables 3, 4a, and 4b. Since the composition of the OEWS sample changes from year to year, these are properly interpreted as a series of snapshots of employment and wages over the years rather than as a time series. Tables 4 c and 4 d show major occupational groups ranked by net percentage change in employment and average (or mean) hourly wage in 2020 versus 2010. In order to better compare wage changes over time, an adjusted 2010 wage was calculated using the BLS Employment Cost Index (ECI) that is computed for the entire country and varies by industry and year (Table 4e). The ECI employed in this analysis is a general national index (not geography- or goodsspecific) and was created by the U.S. Department of Labor.

## Historical Wage Growth

For unadjusted hourly wages in all occupations combined, 2020 shows an average wage more than 30 percent higher and a median wage 27 percent higher than the average and median seen in 2010 (Table 3).

A comparison of changes in adjusted hourly mean wage by occupational group (Table 4e) indicates that "real" wage increases of 3.0 percent or more occurred not only in higherpaying management ( 4.25 percent) and legal ( 4.51 percent) occupations, but also in the relatively lower-paying food preparation and serving related ( 9.28 percent); personal care and service ( 6.48 percent); sales and related (5.31 percent); farming, fishing, and forestry ( 5.09 percent); and building and grounds cleaning and maintenance (4.71 percent) occupational groups. Real wage increases of less than 1 percent occurred in construction and extraction, computer and mathematical, and community and social service occupations.

The remaining 12 major occupational groups lost ground in adjusted wages with decreases ranging from 1.22 percent (production) to 6.15 percent (healthcare support).

Table 3. Employment and Hourly and Annual Wages, *All Occupations (Colorado, 2010-2020)

| Year/ <br> Survey <br> Panel | Total <br> Employment | Average <br> Hourly <br> Wage | Median <br> Hourly <br> Wage | Average <br> Annual <br> Wage | Median <br> Annual <br> Wage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2010 May | $2,157,690$ | $\$ 22.48$ | $\$ 17.72$ | $\$ 46,767$ | $\$ 36,851$ |
| 2011 May | $2,179,060$ | $\$ 22.85$ | $\$ 17.82$ | $\$ 47,522$ | $\$ 37,068$ |
| 2012 May | $2,226,160$ | $\$ 23.09$ | $\$ 17.83$ | $\$ 48,035$ | $\$ 37,093$ |
| 2013 May | $2,295,000$ | $\$ 23.52$ | $\$ 18.04$ | $\$ 48,923$ | $\$ 37,521$ |
| 2014 May | $2,367,780$ | $\$ 23.97$ | $\$ 18.28$ | $\$ 49,851$ | $\$ 38,024$ |
| 2015 May | $2,451,480$ | $\$ 24.60$ | $\$ 18.65$ | $\$ 51,177$ | $\$ 38,801$ |
| 2016 May | $2,507,680$ | $\$ 25.34$ | $\$ 19.09$ | $\$ 52,714$ | $\$ 39,712$ |
| 2017 May | $2,555,300$ | $\$ 25.99$ | $\$ 19.65$ | $\$ 54,049$ | $\$ 40,879$ |
| 2018 May | $2,620,640$ | $\$ 26.84$ | $\$ 20.34$ | $\$ 55,818$ | $\$ 42,307$ |
| 2019 May | $2,678,490$ | $\$ 27.73$ | $\$ 21.28$ | $\$ 57,686$ | $\$ 44,254$ |
| 2020 May | $2,578,000$ | $\$ 29.25$ | $\$ 22.52$ | $\$ 60,836$ | $\$ 46,845$ |

*Unadjusted historical data

Table 4a. Employment in Major Occupational Groups (Colorado, 2010-2020)

| SOC Major Occupational Group | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management | 91,400 | 92,990 | 95,180 | 100,910 | 103,470 | 108,200 | 109,620 | 112,920 | 116,770 | 118,210 | 115,380 |
| Business and financial operations | 133,330 | 141,130 | 47,930 | 156,810 | 160,300 | 166,760 | 169,260 | 178,980 | 190,330 | 207,380 | 210,600 |
| Computer and mathematical | 86,510 | 88,030 | 90,870 | 91,820 | 96,120 | 97,840 | 104,170 | 109,450 | 116,930 | 123,040 | 126,070 |
| Architecture and engineering | 52,660 | 50,880 | 51,330 | 54,580 | 56,640 | 61,170 | 61,700 | 62,950 | 61,970 | 64,100 | 66,610 |
| Life, physical, and social science | 25,150 | 25,530 | 26,790 | 27,820 | 28,760 | 29,600 | 30,100 | 30,350 | 30,330 | 32,050 | 33,260 |
| Community and social service | 29,450 | 29,680 | 30,500 | 31,590 | 31,260 | 33,410 | 35,150 | 36,890 | 39,470 | 40,810 | 41,230 |
| Legal | 19,480 | 20,520 | 20,840 | 21,100 | 21,440 | 21,610 | 20,370 | 20,620 | 22,540 | 23,830 | 24,160 |
| Educational instruction and library | 131,690 | 131,390 | 132,020 | 135,440 | 140,480 | 143,360 | 144,710 | 142,930 | 143,090 | 143,990 | 140,310 |
| Arts, design, entertainment, sports, and media | 37,760 | 37,340 | 35,310 | 35,560 | 36,530 | 38,610 | 39,060 | 39,390 | 40,640 | 42,270 | 39,590 |
| Healthcare practitioners and technical | 114,240 | 114,970 | 117,620 | 119,290 | 124,530 | 130,580 | 136,200 | 142,130 | 146,200 | 144,680 | 144,490 |
| Healthcare support | 53,730 | 55,870 | 55,880 | 54,850 | 62,490 | 60,360 | 63,140 | 61,600 | 65,740 | 95,560 | 94,660 |
| Protective service | 52,660 | 54,440 | 55,390 | 53,660 | 52,750 | 54,260 | 55,520 | 56,150 | 59,080 | 60,210 | 55,410 |
| Food preparation and serving related | 202,670 | 207,680 | 211,710 | 218,920 | 228,960 | 236,170 | 244,780 | 247,640 | 255,250 | 259,440 | 215,880 |
| Building and grounds cleaning and maintenance | 74,070 | 72,670 | 75,000 | 75,430 | 78,670 | 80,880 | 83,310 | 83,630 | 83,120 | 84,190 | 79,610 |
| Personal care and service | 56,220 | 59,630 | 64,130 | 68,700 | 69,830 | 76,980 | 83,330 | 87,330 | 93,270 | 70,150 | 61,630 |
| Sales and related | 241,880 | 242,480 | 249,970 | 260,530 | 267,090 | 277,910 | 291,380 | 296,130 | 291,900 | 287,130 | 268,680 |
| Office and administrative support | 350,850 | 352,370 | 358,340 | 364,090 | 362,760 | 363,030 | 359,720 | 360,490 | 361,390 | 325,200 | 314,260 |
| Farming, fishing, and forestry | 3,290 | 3,270 | 3,670 | 4,020 | 4,510 | 4,820 | 5,260 | 6,750 | 7,050 | 7,010 | 6,290 |
| Construction and extraction | 108,540 | 103,900 | 105,010 | 110,760 | 122,030 | 129,730 | 130,190 | 133,900 | 140,690 | 143,530 | 140,070 |
| Installation, maintenance, and repair | 83,570 | 83,520 | 85,050 | 86,190 | 90,950 | 94,720 | 97,010 | 95,960 | 101,450 | 104,660 | 101,310 |
| Production | 90,210 | 92,740 | 94,680 | 96,190 | 97,640 | 103,700 | 103,290 | 102,730 | 102,540 | 105,080 | 99,340 |
| Transportation and material moving | 118,340 | 118,010 | 119,050 | 125,420 | 130,560 | 137,780 | 140,430 | 146,380 | 150,880 | 195,980 | 199,170 |

Table 4b. Average Hourly Wage (Adjusted*) in Major Occupational Groups (Colorado, 2010-2020)

| SOC Major Occupational Group | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management | \$64.89 | \$66.09 | \$66.13 | \$66.12 | \$65.99 | \$67.19 | \$67.80 | \$66.82 | \$66.74 | \$66.39 | \$67.65 |
| Business and financial operations | \$41.30 | \$41.37 | \$40.80 | \$40.96 | \$41.32 | \$41.41 | \$41.02 | \$40.11 | \$39.90 | \$40.10 | \$40.16 |
| Computer and mathematical | \$48.09 | \$47.16 | \$47.87 | \$47.73 | \$48.61 | \$48.76 | \$49.76 | \$49.19 | \$48.98 | \$48.52 | \$48.33 |
| Architecture and engineering | \$47.25 | \$46.95 | \$47.48 | \$47.59 | \$47.81 | \$47.68 | \$47.25 | \$46.69 | \$46.04 | \$46.47 | \$45.96 |
| Life, physical, and social science | \$41.39 | \$41.77 | \$40.94 | \$39.79 | \$39.47 | \$39.66 | \$39.75 | \$39.22 | \$38.51 | \$39.73 | \$39.23 |
| Community and social service | \$25.40 | \$25.39 | \$25.10 | \$24.91 | \$25.31 | \$25.59 | \$25.33 | \$25.53 | \$25.21 | \$25.64 | \$25.46 |
| Legal | \$54.28 | \$56.63 | \$56.76 | \$57.91 | \$54.30 | \$54.31 | \$55.18 | \$55.83 | \$57.35 | \$58.49 | \$56.73 |
| Education, training, and library | \$28.97 | \$28.82 | \$28.73 | \$27.98 | \$27.40 | \$27.70 | \$27.68 | \$27.80 | \$27.76 | \$27.78 | \$27.98 |
| Arts, design, entertainment, sports, and media | \$29.17 | \$28.53 | \$27.89 | \$27.27 | \$27.27 | \$26.89 | \$27.65 | \$27.79 | \$27.92 | \$28.00 | \$28.59 |
| Healthcare practitioners and technical | \$43.13 | \$42.84 | \$42.69 | \$42.32 | \$42.51 | \$42.59 | \$43.26 | \$43.00 | \$42.43 | \$41.75 | \$42.18 |
| Healthcare support | \$18.21 | \$18.04 | \$17.97 | \$18.46 | \$18.77 | \$18.78 | \$18.77 | \$18.67 | \$18.62 | \$17.18 | \$17.09 |
| Protective service | \$27.09 | \$26.65 | \$26.21 | \$26.52 | \$26.86 | \$26.17 | \$26.34 | \$26.30 | \$26.23 | \$25.84 | \$26.59 |
| Food preparation and serving related | \$13.79 | \$13.42 | \$13.46 | \$13.38 | \$13.34 | \$13.48 | \$13.71 | \$13.92 | \$14.31 | \$14.45 | \$15.07 |
| Building and grounds cleaning and maintenance | \$15.72 | \$15.90 | \$15.77 | \$15.74 | \$15.63 | \$15.74 | \$16.09 | \$16.35 | \$16.38 | \$16.28 | \$16.46 |
| Personal care and service | \$16.36 | \$15.90 | \$15.71 | \$15.60 | \$15.63 | \$15.39 | \$15.76 | \$16.14 | \$16.38 | \$17.30 | \$17.42 |
| Sales and related | \$24.66 | \$24.68 | \$24.02 | \$24.09 | \$24.01 | \$24.01 | \$24.28 | \$24.58 | \$24.89 | \$25.48 | \$25.97 |
| Office and administrative support | \$21.75 | \$21.69 | \$21.33 | \$21.14 | \$21.10 | \$21.24 | \$21.19 | \$21.02 | \$21.00 | \$21.36 | \$21.32 |
| Farming, fishing, and forestry | \$16.32 | \$16.16 | \$16.34 | \$16.02 | \$15.90 | \$15.77 | \$15.32 | \$15.66 | \$16.52 | \$16.59 | \$17.15 |
| Construction and extraction | \$25.35 | \$25.51 | \$25.51 | \$25.20 | \$24.81 | \$24.88 | \$24.87 | \$25.13 | \$25.45 | \$25.51 | \$25.59 |
| Installation, maintenance, and repair | \$26.56 | \$26.68 | \$26.40 | \$26.46 | \$26.51 | \$26.48 | \$26.20 | \$26.45 | \$26.42 | \$26.29 | \$26.20 |
| Production | \$21.34 | \$21.44 | \$21.21 | \$21.30 | \$21.16 | \$20.99 | \$20.75 | \$20.99 | \$21.12 | \$21.19 | \$21.08 |
| Transportation and material moving | \$21.96 | \$21.93 | \$22.22 | \$21.98 | \$22.59 | \$22.62 | \$22.67 | \$22.45 | \$22.28 | \$21.28 | \$21.06 |

[^0]Table 4c. Employment Change in Major Occupational Groups (Colorado, 2010-2020)

Table 4d. Wage Change in Major Occupational Groups (Colorado, 2010-2020)

| SOC Major Occupational Group | Employment Change (\%) |
| :--- | :---: |
| Farming, fishing, and forestry | $91.19 \%$ |
| Healthcare support | $76.18 \%$ |
| Transportation and material moving | $68.30 \%$ |
| Business and financial operations | $57.95 \%$ |
| Computer and mathematical | $45.73 \%$ |
| Community and social service | $40.00 \%$ |
| Life, physical, and social science | $32.25 \%$ |
| Construction and extraction | $29.05 \%$ |
| Architecture and engineering | $26.49 \%$ |
| Healthcare practitioners and technical | $26.48 \%$ |
| Management | $26.24 \%$ |
| Legal | $24.02 \%$ |
| Installation, maintenance, and repair | $21.23 \%$ |
| Sales and related | $11.08 \%$ |
| Production | $10.12 \%$ |
| Personal care and service | $9.62 \%$ |
| Building and grounds cleaning and maintenance | $7.48 \%$ |
| Educational instruction and library | $6.55 \%$ |
| Food preparation and serving related | $6.52 \%$ |
| Protective service | $5.22 \%$ |
| Arts, design, entertainment, sports, and media | $4.85 \%$ |
| Office and administrative support | $-10.43 \%$ |
|  |  |


| SOC Major Occupational Group | Mean Hourly Wage Change (\%) |
| :--- | :---: |
| Food preparation and serving related | $41.77 \%$ |
| Personal care and service | $38.14 \%$ |
| Sales and related | $35.83 \%$ |
| Building and grounds cleaning and maintenance | $35.81 \%$ |
| Management | $30.93 \%$ |
| Farming, fishing, and forestry | $29.92 \%$ |
| Transportation and material moving | $28.26 \%$ |
| Legal | $28.23 \%$ |
| Protective service | $27.35 \%$ |
| Production | $26.45 \%$ |
| Office and administrative support | $26.23 \%$ |
| Construction and extraction | $24.83 \%$ |
| Installation, maintenance, and repair | $23.82 \%$ |
| Computer and mathematical | $23.32 \%$ |
| Community and social service | $23.00 \%$ |
| Business and financial operations | $22.10 \%$ |
| Healthcare support | $21.72 \%$ |
| Arts, design, entertainment, sports, and media | $20.28 \%$ |
| Healthcare practitioners and technical | $20.00 \%$ |
| Architecture and engineering | $19.35 \%$ |
| Educational instruction and library | $18.51 \%$ |
| Life, physical, and social science | $16.31 \%$ |

Table 4e. 2020 vs Adjusted 2010 Wage in Major Occupational Groups (Colorado, 2010-2020)

| SOC Major Occupational Group | 2010 Adjusted Hourly Wage* | 2020 Hourly Wage | 2020 vs Adjusted 2010 | 2020 vs Adjusted 2010 (\%) |
| :---: | :---: | :---: | :---: | :---: |
| Food preparation and serving related | \$13.79 | \$15.07 | \$1.28 | 9.28\% |
| Personal care and service | \$16.36 | \$17.42 | \$1.06 | 6.48\% |
| Sales and related | \$24.66 | \$25.97 | \$1.31 | 5.31\% |
| Farming, fishing, and forestry | \$16.32 | \$17.15 | \$0.83 | 5.09\% |
| Building and grounds cleaning and maintenance | \$15.72 | \$16.46 | \$0.74 | 4.71\% |
| Legal | \$54.28 | \$56.73 | \$2.45 | 4.51\% |
| Management | \$64.89 | \$67.65 | \$2.76 | 4.25\% |
| Construction and extraction | \$25.35 | \$25.59 | \$0.24 | 0.95\% |
| Computer and mathematical | \$48.09 | \$48.33 | \$0.24 | 0.50\% |
| Community and social service | \$25.40 | \$25.46 | \$0.06 | 0.24\% |
| Production | \$21.34 | \$21.08 | (\$0.26) | -1.22\% |
| Installation, maintenance, and repair | \$26.56 | \$26.20 | (\$0.36) | -1.36\% |
| Protective service | \$27.09 | \$26.59 | (\$0.50) | -1.85\% |
| Office and administrative support | \$21.75 | \$21.32 | (\$0.43) | -1.98\% |
| Arts, design, entertainment, sports, and media | \$29.17 | \$28.59 | (\$0.58) | -1.99\% |
| Healthcare practitioners and technical | \$43.13 | \$42.18 | (\$0.95) | -2.20\% |
| Architecture and engineering | \$47.25 | \$45.96 | (\$1.29) | -2.73\% |
| Business and financial operations | \$41.30 | \$40.16 | (\$1.14) | -2.76\% |
| Educational instruction and library | \$28.97 | \$27.98 | (\$0.99) | -3.42\% |
| Transportation and material moving | \$21.96 | \$21.06 | (\$0.90) | -4.10\% |
| Life, physical, and social science | \$41.39 | \$39.23 | (\$2.16) | -5.22\% |
| Healthcare support | \$18.21 | \$17.09 | (\$1.12) | -6.15\% |

[^1]
## Historical Employment Gains and Losses

The 2020 Colorado estimates indicate an overall employment increase of 420,310 compared to the 2010 estimates. Total covered employment in Colorado, at a five-year low of $2,157,690$ in 2010, increased to an all-time high of $2,678,490$ in 2019 before decreasing to 2,578,000 in 2020.

When comparing 2020 employment with that in 2010, the transportation and material moving category showed the largest absolute employment increase of any group with a net gain of 80,830 (+68.3 percent), followed by business and financial operations $(+77,270,+57.9$ percent), healthcare support $(+39,560,+76.2$ percent), and computer and mathematical occupations ( $+45,710,+45.7$ percent) (Table 4 a ). The largest percentage increase was seen for farming, fishing, and forestry occupations at 91.2 percent ( $+3,000$ ), followed by healthcare support, transportation and material moving, and business and financial operations occupations. Only one occupational group lost employment over the same period: office and administrative support (-36,590, -10.4 percent).

## Historical Wage and Employment Changes

There is no obvious relationship between overall wage changes and employment changes during 2010-2020. Comparison of adjusted wage and employment changes for all major occupational groups over the 10-year period yielded no relationship (correlation coefficient of -0.19).

Within major occupational groups, negative correlations between employment change and wage change were observed for educational instruction and library ( -0.89 ); business and financial operations (-0.81); life, physical, and social science (-0.81); protective service $(-0.80)$; healthcare support ( -0.76 ); production ( -0.75 ); installation, maintenance, and repair ( -0.72 ); transportation and material moving ( -0.67 ); and architecture and engineering $(-0.61)$ (Tables 4 a and 4 b and Historical Figures 1-22). Management (+0.70), building and grounds cleaning and maintenance (+0.66), and legal occupations (+0.54) showed positive correlations between employment and wage changes.

Historical wage and employment changes by SOC major group are shown in Historical Figures 1-22. Note that some of the marked increases and decreases in employment observed between the 2018 and 2019 estimates are related to implementation of the 2018 SOC revision starting with the 2019 estimates. For example, the decrease observed for personal care and service occupations and the increase in healthcare support occupations is primarily due to the reclassification of personal care aides as a healthcare support occupation. Likewise, the drop in office and administrative support and the rise in transportation and material moving has to do partly with the elimination of the 2010 SOC code stock clerks and order fillers (an office and administrative support position) and the addition of the 2018 SOC code stockers and order fillers (a material moving occupation).

Historical Figure 1.
Employment and adjusted hourly mean wage 2010-2020 Management occupations


Historical Figure 2.
Employment and adjusted hourly mean wage 2010-2020 Business and financial operations occupations


Historical Figure 3.
Employment and adjusted hourly mean wage 2010-2020
Computer and mathematical occupations


Historical Figure 5.
Employment and adjusted hourly mean wage 2010-2020
Life, physical, and social science occupations


Historical Figure 4.
Employment and adjusted hourly mean wage 2010-2020
Architecture and engineering occupations


Historical Figure 6.
Employment and adjusted hourly mean wage 2010-2020
Community and social service occupations


Historical Figure 7.
Employment and adjusted hourly mean wage 2010-2020 Healthcare practitioners and technical occupations


Historical Figure 9.
Employment and adjusted hourly mean wage 2010-2020 Education, training, and library occupations


Historical Figure 8.
Employment and adjusted hourly mean wage 2010-2020
Legal occupations


Historical Figure 10.
Employment and adjusted hourly mean wage 2010-2020
Arts, design, entertainment, sports and media occupations


Historical Figure 11.
Employment and adjusted hourly mean wage 2010-2020
Healthcare support occupations


Historical Figure 13.
Employment and adjusted hourly mean wage 2010-2020 Food preparation and serving-related occupations


Historical Figure 12.
Employment and adjusted hourly mean wage 2010-2020
Protective service occupations


Historical Figure 14.
Employment and adjusted hourly mean wage 2010-2020
Building and grounds cleaning and maintenance occupations


Historical Figure 15.
Employment and adjusted hourly mean wage 2010-2020
Personal care and service occupations


Historical Figure 17.
Employment and adjusted hourly mean wage 2010-2020 Office and administrative occupations


Historical Figure 16.
Employment and adjusted hourly mean wage 2010-2020
Sales and related occupations


Historical Figure 18.
Employment and adjusted hourly mean wage 2010-2020
Farming, fishing, and forestry occupations


Historical Figure 19.
Employment and adjusted hourly mean wage 2010-2020
Construction and extraction occupations


Historical Figure 21.
Employment and adjusted hourly mean wage 2010-2020
Production occupations


Historical Figure 20.
Employment and adjusted hourly mean wage 2010-2020 Installation, maintenance, and repair occupations


Historical Figure 22.
Employment and adjusted hourly mean wage 2010-2020 Transporation and material moving occupations


## Top 20 Occupations by Employment

The group of 20 occupations that employ the largest number of workers is similar to that seen in previous years, with some minor changes in ranking. The largest changes were seen for home health and personal care aides which jumped up from being off the top 20 last year to number 10 this year; waiters and waitresses which dropped from number 6 to number 12; and restaurant cooks which dropped from number 14 to number 19.

Table 5. Top 20 Occupations by Employment (Colorado, May 2020)

| SOC Occupational Title | Employment | Average Hourly Wage | Median Hourly Wage | Average Annual Wage | Median <br> Annual Wage | Rank Last Year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Retail salespersons | 70,060 | \$16.30 | \$13.84 | \$33,895 | \$28,788 | 1 |
| Fast food and counter workers | 64,720 | \$13.23 | \$12.51 | \$27,524 | \$26,023 | 2 |
| Project management specialists and business operations specialists, all other | 53,490 | \$43.30 | \$39.69 | \$90,057 | \$82,554 | 5 |
| Registered nurses | 52,330 | \$37.43 | \$36.78 | \$77,863 | \$76,502 | 4 |
| Cashiers | 51,730 | \$14.21 | \$13.10 | \$29,565 | \$27,245 | 3 |
| Customer service representatives | 48,440 | \$18.79 | \$17.39 | \$39,078 | \$36,177 | 7 |
| Software developers and software quality assurance analysts and testers | 48,230 | \$54.18 | \$53.32 | \$112,702 | \$110,898 | 8 |
| Stockers and order fillers | 46,420 | \$16.27 | \$15.34 | \$33,839 | \$31,908 | 9 |
| Office clerks, general | 39,090 | \$21.46 | \$20.12 | \$44,631 | \$41,841 | 10 |
| Home health and personal care aides | 36,610 | \$14.59 | \$13.83 | \$30,346 | \$28,760 | -- |
| Accountants and auditors | 36,470 | \$40.93 | \$36.89 | \$85,125 | \$76,729 | 12 |
| Waiters and waitresses | 35,710 | \$14.98 | \$12.01 | \$31,158 | \$24,977 | 6 |
| General and operations managers | 35,550 | \$69.42 | \$58.46 | \$144,395 | \$121,607 | 11 |
| Secretaries and administrative assistants, except legal, medical, and executive | 33,600 | \$19.81 | \$19.19 | \$41,214 | \$39,911 | 13 |
| Janitors and cleaners, except maids and housekeeping cleaners | 32,540 | \$15.13 | \$14.16 | \$31,473 | \$29,453 | 15 |
| Sales representatives of services, except advertising, insurance, financial services, and travel | 29,770 | \$39.01 | \$31.06 | \$81,137 | \$64,614 | 16 |
| Laborers and freight, stock, and material movers, hand | 28,470 | \$17.30 | \$16.62 | \$35,989 | \$34,579 | 17 |
| Sales representatives, wholesale and manufacturing, except technical and scientific products | 28,380 | \$38.99 | \$32.70 | \$81,103 | \$68,017 | 18 |
| Cooks, restaurant | 27,060 | \$15.30 | \$14.81 | \$31,816 | \$30,813 | 14 |
| Bookkeeping, accounting, and auditing clerks | 26,920 | \$21.60 | \$21.09 | \$44,935 | \$43,874 | 19 |

## Top 20 Occupations by Wage

Health professions such as anesthesiologists; obstetricians and gynecologists; and surgeons dominate the 20 occupations that earn the highest wages, taking 8 of the top 10 slots. Athletes and sports competitors jumped from number 20 to number 12, while oral and maxillofacial surgeons dropped off the list altogether.

Table 6. Top 20 Occupations by Wage (Colorado, May 2020)

| SOC Occupational Title | Employment | Average Hourly Rate | Median Hourly Wage | Average Annual Wage | Median Annual Wage | Rank Last Year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anesthesiologists | 520 | \$139.38 | N/A | \$289,918 | N/A | 2 |
| Obstetricians and gynecologists | 530 | \$137.36 | N/A | \$285,706 | N/A | 1 |
| Surgeons, except ophthalmologists | 780 | \$133.03 | N/A | \$276,699 | N/A | 4 |
| Physicians, all other and ophthalmologists, except pediatric | 3,730 | \$119.00 | N/A | \$247,517 | N/A | 6 |
| Psychiatrists | 330 | \$108.51 | N/A | \$225,691 | N/A | 5 |
| General internal medicine physicians | 660 | \$105.44 | \$101.00 | \$219,313 | \$210,826 | 9 |
| Chief executives | 660 | \$96.90 | \$88.00 | \$201,543 | \$182,035 | 8 |
| Airline pilots, copilots, and flight engineers | 3,540 | N/A | N/A | \$200,037 | \$185,718 | 11 |
| Family medicine physicians | 3,020 | \$95.76 | \$95.61 | \$199,189 | \$198,868 | 7 |
| Pediatricians, general | 350 | \$90.82 | \$80.65 | \$188,899 | \$167,752 | 19 |
| Dentists, general | 1,840 | \$88.72 | \$69.87 | \$184,547 | \$145,320 | 16 |
| Athletes and sports competitors | 280 | N/A | N/A | \$178,996 | \$167,239 | 20 |
| Architectural and engineering managers | 3,370 | \$85.63 | \$80.22 | \$178,119 | \$166,856 | 12 |
| Nurse anesthetists | 370 | \$84.50 | \$85.99 | \$175,756 | \$178,865 | 13 |
| Computer and information systems managers | 8,080 | \$83.68 | \$78.03 | \$174,064 | \$162,311 | 14 |
| Financial managers | 7,450 | \$82.89 | \$75.52 | \$172,404 | \$157,085 | 18 |
| Marketing managers | 4,050 | \$82.76 | \$79.17 | \$172,147 | \$164,674 | 15 |
| Sales managers | 5,220 | \$81.97 | \$74.96 | \$170,500 | \$155,925 | 17 |
| Advertising and promotions managers | 410 | \$78.39 | \$76.99 | \$163,043 | \$160,139 | -- |
| Judges, magistrate judges, and magistrates | 560 | \$78.13 | \$81.44 | \$162,520 | \$169,401 | -- |

## Bottom 20 Occupations by Wage

Among occupations with at least 500 workers statewide, the food preparation and serving related group accounted for a significant portion of occupations earning the lowest average wages: fast food and counter workers; fast food cooks; dishwashers; dining room and cafeteria attendants; and hosts and hostesses. The remaining bottom 20 primarily comprised personal service and recreation occupations, including amusement and recreation attendants; parking attendants; home health and personal care aides; and animal caretakers.

Table 7. Bottom 20 Occupations* by Wage (Colorado, May 2020)

| SOC Occupational Title | Employment | Average Hourly Wage | Median Hourly Wage | Average Annual Wage | Median <br> Annual Wage | Rank <br> Last <br> Year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ushers, lobby attendants, and ticket takers | 2,130 | \$13.02 | \$12.19 | \$27,079 | \$25,345 | 3 |
| Baggage porters and bellhops | 830 | \$13.08 | \$12.35 | \$27,200 | \$25,698 | 1 |
| Fast food and counter workers | 64,720 | \$13.23 | \$12.51 | \$27,524 | \$26,023 | 4 |
| Cooks, fast food | 6,080 | \$13.31 | \$12.96 | \$27,695 | \$26,958 | 7 |
| Dishwashers | 8,300 | \$13.52 | \$12.86 | \$28,117 | \$26,748 | 5 |
| Lifeguards, ski patrol, and other recreational protective service workers | 4,240 | \$13.60 | \$12.52 | \$28,285 | \$26,048 | 9 |
| Laundry and dry-cleaning workers | 3,690 | \$13.71 | \$12.95 | \$28,518 | \$26,939 | 10 |
| Dining room and cafeteria attendants and bartender helpers | 6,900 | \$13.81 | \$12.23 | \$28,724 | \$25,447 | 6 |
| Hosts and hostesses, restaurant, lounge, and coffee shop | 7,610 | \$13.95 | \$12.66 | \$29,015 | \$26,326 | 12 |
| Maids and housekeeping cleaners | 17,610 | \$14.11 | \$13.48 | \$29,356 | \$28,036 | 14 |
| Food servers, nonrestaurant | 5,800 | \$14.15 | \$12.93 | \$29,442 | \$26,894 | 18 |
| Amusement and recreation attendants | 7,990 | \$14.20 | \$13.11 | \$29,539 | \$27,265 | 13 |
| Cashiers | 51,730 | \$14.21 | \$13.10 | \$29,565 | \$27,245 | 15 |
| Food preparation and serving related workers, all other | 1,520 | \$14.27 | \$12.35 | \$29,682 | \$25,682 | 8 |
| Packers and packagers, hand | 7,740 | \$14.45 | \$12.75 | \$30,053 | \$26,510 | 19 |
| Parking attendants | 1,820 | \$14.51 | \$13.74 | \$30,181 | \$28,581 | 17 |
| Home health and personal care aides | 36,610 | \$14.59 | \$13.83 | \$30,346 | \$28,760 | -- |
| Animal caretakers | 5,160 | \$14.67 | \$13.12 | \$30,516 | \$27,287 | 20 |
| Gambling dealers | 910 | \$14.70 | \$12.01 | \$30,566 | \$24,977 | 2 |
| Manicurists and pedicurists | 1,180 | \$14.80 | \$13.70 | \$30,790 | \$28,492 | -- |

[^2]
## Percentile Hourly Wages by Major Occupational and Industry Groups

Table 8a and Figure 4a show percentile hourly wage distributions in occupational groups; Table 8b and Figure 4b show percentile hourly wage distributions in industry groups. In addition to the professional occupational groups, protective service; construction and extraction; and installation, maintenance, and repair workers also had median wages higher than the overall median of $\$ 22.52$.

As expected, the utilities sector had the highest median wage among industry groups, followed by management of companies and enterprises; professional, scientific, and technical services; information; and mining.

Table 8a. Percentile Hourly Wages by Major Occupational Groups (Colorado, May 2020)

| Major Occupational Group | Employment | 10th Percentile | 25th Percentile | 50th (Median) Percentile | 75th Percentile | 90th Percentile |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management | 115,380 | \$30.80 | \$42.36 | \$60.68 | \$82.81 | N/A |
| Computer and mathematical | 126,070 | \$25.36 | \$34.19 | \$46.49 | \$60.98 | \$75.37 |
| Legal | 24,160 | \$22.01 | \$30.08 | \$42.92 | \$74.13 | N/A |
| Architecture and engineering | 66,610 | \$23.47 | \$31.63 | \$42.25 | \$57.44 | \$74.52 |
| Business and financial operations | 210,600 | \$20.76 | \$27.14 | \$36.37 | \$49.14 | \$63.82 |
| Healthcare practitioners and technical | 144,490 | \$18.58 | \$26.75 | \$36.04 | \$47.66 | \$67.78 |
| Life, physical, and social science | 33,260 | \$18.33 | \$25.26 | \$35.36 | \$48.53 | \$64.44 |
| Arts, design, entertainment, sports, and media | 39,590 | \$12.24 | \$16.75 | \$24.81 | \$35.23 | \$47.66 |
| Installation, maintenance, and repair | 101,310 | \$14.38 | \$18.38 | \$24.57 | \$31.75 | \$40.55 |
| Protective service | 55,410 | \$12.77 | \$15.50 | \$24.13 | \$34.44 | \$46.65 |
| Community and social service | 41,230 | \$15.14 | \$18.52 | \$24.11 | \$30.53 | \$38.34 |
| Educational instruction and library | 140,310 | \$13.60 | \$17.85 | \$24.11 | \$32.66 | \$43.77 |
| Construction and extraction | 140,070 | \$15.74 | \$18.90 | \$24.06 | \$30.29 | \$38.32 |
| Office and administrative support | 314,260 | \$12.93 | \$15.85 | \$19.65 | \$25.08 | \$31.29 |
| Production | 99,340 | \$12.71 | \$14.96 | \$18.64 | \$24.55 | \$32.62 |
| Sales and related | 268,680 | \$12.23 | \$13.12 | \$17.80 | \$30.42 | \$51.16 |
| Transportation and material moving | 199,170 | \$12.34 | \$13.96 | \$17.76 | \$23.47 | \$31.28 |
| Healthcare support | 94,660 | \$12.33 | \$13.47 | \$16.02 | \$19.32 | \$23.96 |
| Building and grounds cleaning and maintenance | 79,610 | \$12.18 | \$12.82 | \$14.96 | \$18.39 | \$23.34 |
| Farming, fishing, and forestry | 6,290 | \$12.04 | \$12.35 | \$14.74 | \$19.05 | \$25.04 |
| Personal care and service | 61,630 | \$12.09 | \$12.43 | \$14.55 | \$19.49 | \$27.02 |
| Food preparation and serving related | 215,880 | \$12.01 | \$12.13 | \$12.90 | \$15.58 | \$20.65 |

Figure 4a. Hourly Wage Percentiles by Major Occupational Group (Colorado, 2020)


Table 8b. Percentile Hourly Wages by Major Industry Groups (Colorado, May 2020)

| NAICS Sector | Employment | 10th Percentile | 25th Percentile | 50th (Median) Percentile | 75th Percentile | 90th Percentile |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | 8,370 | \$23.82 | \$33.09 | \$43.76 | \$51.07 | \$63.86 |
| Management of companies and enterprises | 45,050 | \$19.51 | \$27.42 | \$40.28 | \$61.73 | \$89.63 |
| Professional, scientific, and technical services | 237,300 | \$17.75 | \$26.24 | \$39.41 | \$59.40 | \$81.81 |
| Information | 72,550 | \$16.06 | \$24.50 | \$38.09 | \$57.59 | \$77.16 |
| Mining | 24,150 | \$17.53 | \$22.25 | \$31.61 | \$47.73 | \$72.76 |
| Public administration | 181,620 | \$15.11 | \$21.40 | \$29.05 | \$41.62 | \$54.95 |
| Finance and insurance | 110,400 | \$15.52 | \$19.78 | \$28.44 | \$44.28 | \$65.70 |
| Wholesale trade | 107,330 | \$14.34 | \$18.39 | \$25.82 | \$40.37 | \$64.59 |
| Construction | 177,660 | \$16.06 | \$19.65 | \$25.52 | \$33.26 | \$46.13 |
| Educational services | 225,990 | \$13.87 | \$18.10 | \$24.63 | \$34.75 | \$48.18 |
| Manufacturing | 146,900 | \$13.59 | \$16.90 | \$23.10 | \$36.43 | \$57.91 |
| Health care and social assistance | 331,530 | \$12.87 | \$15.69 | \$22.02 | \$35.30 | \$49.89 |
| Transportation and warehousing | 98,330 | \$13.45 | \$16.46 | \$21.28 | \$30.29 | \$39.76 |
| Real estate and rental and leasing | 51,760 | \$12.37 | \$15.29 | \$20.77 | \$29.96 | \$45.40 |
| Other services (except public administration) | 72,260 | \$12.14 | \$13.60 | \$19.01 | \$28.25 | \$40.46 |
| Administrative and support <br> \& waste management and remediation services | 153,680 | \$12.28 | \$13.79 | \$17.47 | \$24.69 | \$38.91 |
| Arts, entertainment, and recreation | 42,840 | \$12.06 | \$12.43 | \$15.83 | \$24.22 | \$36.46 |
| Retail trade | 260,420 | \$12.12 | \$12.54 | \$14.97 | \$19.40 | \$28.06 |
| Agriculture, forestry, fishing and hunting | 3,410 | \$12.05 | \$12.14 | \$14.49 | \$20.83 | \$30.65 |
| Accommodation and food services | 226,450 | \$12.01 | \$12.08 | \$12.67 | \$15.56 | \$22.56 |

Figure 4b. Hourly Wage Percentiles by Industry Sector, Colorado 2020


## Regional Overview

May 2020 OEWS Data Estimating Area and Component Counties


## Regional Employment and Wages

The Denver-Aurora-Lakewood Metropolitan Statistical Area (MSA), with more than five times the employment of any other region of the State, ranks second in terms of both average and median wages (Table 9 and Figure 5). The Boulder MSA, third largest in terms of employment, ranks first, while the Eastern and Southern Colorado Balance of State (BOS) Area, with the third-lowest employment, ranks last in wages. Denver and Boulder both have average and median wages higher than the statewide average and median.

Figure 5. Average Hourly Wage, All Occupations, by Region (Colorado, May 2020)


Table 9. Hourly and Annual Wages by Region (Colorado, May 2020)

| Metropolitan Statistical Area (MSA) or Balance of State (BOS) Area | Employment | Average Hourly Wage | Median Hourly Wage | Entry* Hourly Wage | Experienced* Hourly Wage | Average Annual Wage | Median Annual Wage | Entry* <br> Annual Wage | Experienced* <br> Annual Wage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boulder MSA | 181,420 | \$33.87 | \$26.33 | \$14.74 | \$43.44 | \$70,453 | \$54,772 | \$30,658 | \$90,351 |
| Denver MSA | 1,457,420 | \$31.19 | \$24.12 | \$14.35 | \$39.61 | \$64,880 | \$50,165 | \$29,853 | \$82,394 |
| Fort Collins MSA | 156,030 | \$27.01 | \$21.05 | \$13.59 | \$33.72 | \$56,184 | \$43,776 | \$28,264 | \$70,144 |
| Northwest CO BOS | 114,480 | \$25.89 | \$20.87 | \$14.26 | \$31.70 | \$53,842 | \$43,399 | \$29,661 | \$65,932 |
| Greeley MSA | 104,510 | \$25.17 | \$20.64 | \$13.91 | \$30.79 | \$52,347 | \$42,935 | \$28,935 | \$64,053 |
| Colorado Springs MSA | 278,210 | \$26.70 | \$20.12 | \$13.09 | \$33.50 | \$55,537 | \$41,856 | \$27,237 | \$69,687 |
| Pueblo MSA | 59,490 | \$23.63 | \$18.74 | \$12.91 | \$28.99 | \$49,151 | \$38,979 | \$26,843 | \$60,305 |
| Grand Junction MSA | 58,920 | \$23.61 | \$18.66 | \$12.94 | \$28.95 | \$49,114 | \$38,803 | \$26,915 | \$60,213 |
| Southwest CO BOS | 94,530 | \$22.68 | \$18.52 | \$12.90 | \$27.57 | \$47,177 | \$38,531 | \$26,825 | \$57,354 |
| Eastern \& Southern CO BOS | 65,790 | \$21.32 | \$17.37 | \$12.76 | \$25.61 | \$44,354 | \$36,137 | \$26,531 | \$53,265 |

*OEWS does not collect information on whether an individual wage is entry or experienced level. The estimate of an "entry" wage is the mean of the lower one-third and the estimate of an "experienced" wage is the mean of the upper two-thirds of the wage distribution.

## Regional Employment and Wages in Major Occupational Groups

Tables 10a and 10b show employment and average hourly wages for the major occupational groups in each of the seven MSAs and three BOS areas.
The amount of variability in wages between regions is highest for occupations in the management, legal, and computer and mathematical groups. With some exceptions, these groups tend to have higher wages in the Boulder, Denver, Colorado Springs, and Fort Collins MSAs and lower wages in the Pueblo MSA and in the Eastern and Southern Colorado and Southwest Colorado BOS areas. Occupational groups showing relatively little variation by region include building and grounds cleaning and maintenance; food preparation and serving related; healthcare support; and installation, maintenance, and repair.

Table 10a. Employment by Region for Major Occupational Groups (Colorado, May 2020)

| Major Occupational Group | Boulder MSA | Colorado Springs MSA | Denver-AuroraLakewood MSA | Fort Collins MSA | Grand Junction MSA | Greeley MSA | Pueblo MSA |  <br> Southern <br> Colorado | Southwest Colorado | Northwest Colorado |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All occupations | 181,420 | 278,210 | 1,457,420 | 156,030 | 58,920 | 104,510 | 59,490 | 65,790 | 94,530 | 114,480 |
| Management | 9,430 | 10,770 | 71,460 | 5,920 | 1,760 | 3,920 | 1,970 | 2,250 | 3,040 | 4,590 |
| Business and financial operations | 17,690 | 20,990 | 139,870 | 9,610 | 2,350 | 5,410 | 2,260 | 2,280 | 4,070 | 5,550 |
| Computer and mathematical | 15,400 | 16,640 | 82,730 | 5,300 | 630 | 1,410 | 670 | 450 | 1,010 | 1,180 |
| Architecture and engineering | 8,590 | 6,410 | 40,000 | 4,840 | 760 | 2,020 | 850 | 300 | 920 | 1,770 |
| Life, physical, and social science | 6,280 | 1,730 | 15,880 | 3,920 | 570 | 1,000 | 620 | 600 | 1,460 | 1,190 |
| Community and social service | 2,540 | 5,510 | 20,790 | 2,470 | 1,280 | 1,400 | 1,560 | 2,050 | 2,250 | 1,370 |
| Legal | 1,370 | 1,780 | 17,530 | 790 | 380 | 330 | 240 | 420 | 630 | 680 |
| Educational instruction and library | 11,760 | 17,810 | 70,560 | 9,780 | 3,380 | 6,540 | 3,410 | 5,490 | 6,010 | 5,410 |
| Arts, design, entertainment, sports, and media | 3,970 | 4,210 | 23,440 | 2,200 | 480 | 940 | 400 | 470 | 1,010 | 1,990 |
| Healthcare practitioners and technical | 9,240 | 17,240 | 78,240 | 10,750 | 5,060 | 3,790 | 5,100 | 3,940 | 5,550 | 5,460 |
| Healthcare support | 5,420 | 13,520 | 49,470 | 6,190 | 3,230 | 2,670 | 4,550 | 3,120 | 4,010 | 2,350 |
| Protective service | 2,270 | 6,770 | 29,010 | 2,220 | 1,240 | 2,350 | 2,210 | 2,650 | 3,740 | 2,950 |
| Food preparation and serving related | 14,450 | 24,640 | 113,410 | 14,290 | 5,780 | 8,010 | 5,360 | 5,500 | 10,160 | 14,270 |
| Building and grounds cleaning and maintenance | 4,160 | 8,490 | 40,270 | 5,290 | 1,980 | 3,010 | 1,710 | 2,420 | 4,140 | 7,810 |
| Personal care and service | 4,420 | 5,600 | 36,150 | 3,790 | 1,420 | 1,540 | 850 | 960 | 2,280 | 4,620 |
| Sales and related | 17,470 | 29,380 | 151,430 | 16,420 | 6,500 | 9,530 | 6,630 | 6,460 | 10,770 | 13,320 |
| Office and administrative support | 19,660 | 37,250 | 176,950 | 19,050 | 8,040 | 11,450 | 8,220 | 8,330 | 12,140 | 12,220 |
| Farming, fishing, and forestry | 220 | 330 | 2,640 | 270 | 70 | 520 | N/A | 1,180 | 430 | 350 |
| Construction and extraction | 4,700 | 12,820 | 71,990 | 8,880 | 4,500 | 11,950 | 2,920 | 3,380 | 6,830 | 11,470 |
| Installation, maintenance, and repair | 4,580 | 10,090 | 53,650 | 5,790 | 3,270 | 5,270 | 2,590 | 3,890 | 4,870 | 6,820 |
| Production | 9,440 | 8,410 | 48,970 | 7,320 | 2,320 | 9,740 | 3,020 | 4,350 | 3,210 | 2,400 |
| Transportation and material moving | 8,340 | 17,810 | 122,950 | 10,930 | 3,920 | 11,700 | 4,120 | 5,300 | 5,980 | 6,720 |

Table 10b. Average Hourly Wage by Region for Major Occupational Groups (Colorado, May 2020)

| Major Occupational Group | Boulder MSA | Colorado Springs MSA | Denver-AuroraLakewood MSA | Fort Collins MSA | Grand Junction MSA | Greeley MSA | Pueblo MSA | Eastern \& Southern Colorado | Southwest Colorado | Northwest Colorado |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All occupations | \$33.87 | \$26.70 | \$31.19 | \$27.01 | \$23.61 | \$25.17 | \$23.63 | \$21.32 | \$22.68 | \$25.89 |
| Management | \$73.86 | \$60.15 | \$71.93 | \$60.10 | \$53.07 | \$59.63 | \$52.80 | \$45.17 | \$49.79 | \$56.39 |
| Business and financial operations | \$42.29 | \$37.10 | \$41.52 | \$36.40 | \$32.49 | \$35.68 | \$32.02 | \$30.61 | \$32.63 | \$37.43 |
| Computer and mathematical | \$50.15 | \$47.11 | \$49.26 | \$42.70 | \$34.62 | \$40.35 | \$35.81 | \$31.88 | \$35.26 | \$39.85 |
| Architecture and engineering | \$49.97 | \$45.40 | \$45.82 | \$45.10 | \$32.40 | \$42.23 | \$42.92 | \$38.42 | \$41.09 | \$48.94 |
| Life, physical, and social science | \$49.37 | \$35.75 | \$39.21 | \$33.72 | \$33.83 | \$33.68 | \$36.25 | \$30.26 | \$31.92 | \$31.56 |
| Community and social service | \$26.08 | \$24.73 | \$26.29 | \$25.86 | \$22.66 | \$24.73 | \$24.07 | \$21.39 | \$24.84 | \$25.84 |
| Legal | N/A | \$46.52 | \$58.91 | \$49.17 | \$40.06 | \$44.00 | \$32.02 | N/A | \$37.60 | N/A |
| Educational instruction and library | \$30.29 | \$24.41 | \$30.38 | \$29.47 | \$22.16 | \$25.66 | \$25.11 | \$20.19 | \$21.58 | \$24.36 |
| Arts, design, entertainment, sports, and media | \$31.93 | \$27.36 | \$29.77 | \$25.28 | \$21.11 | \$27.00 | \$24.06 | \$17.71 | \$22.92 | \$25.34 |
| Healthcare practitioners and technical | \$47.26 | \$40.85 | \$42.90 | \$42.67 | \$42.82 | \$37.47 | \$41.04 | \$34.62 | \$36.62 | \$41.52 |
| Healthcare support | \$18.03 | \$16.77 | \$17.44 | \$16.94 | \$16.04 | \$16.67 | \$15.66 | \$15.13 | \$15.83 | \$19.24 |
| Protective service | \$29.34 | \$23.90 | \$27.51 | \$28.27 | \$24.78 | \$25.34 | \$25.17 | \$23.61 | \$26.50 | \$25.87 |
| Food preparation and serving related | \$15.56 | \$14.19 | \$15.35 | \$15.02 | \$13.59 | \$13.97 | \$13.44 | \$13.54 | \$14.04 | \$17.07 |
| Building and grounds cleaning and maintenance | \$18.25 | \$15.29 | \$16.39 | \$16.26 | \$16.15 | \$16.99 | \$15.31 | \$14.86 | \$16.67 | \$17.77 |
| Personal care and service | \$19.44 | \$16.41 | \$17.48 | \$16.35 | \$14.98 | \$16.60 | \$16.01 | \$14.66 | \$16.99 | \$19.14 |
| Sales and related | \$28.17 | \$22.61 | \$28.71 | \$22.68 | \$20.44 | \$22.43 | \$18.31 | \$18.03 | \$18.75 | \$21.90 |
| Office and administrative support | \$22.10 | \$19.49 | \$22.32 | \$20.25 | \$19.01 | \$20.13 | \$18.91 | \$18.26 | \$19.00 | \$21.60 |
| Farming, fishing, and forestry | \$20.04 | \$16.09 | \$16.71 | \$17.02 | \$15.70 | \$17.55 | \$18.10 | \$16.00 | \$16.88 | \$23.03 |
| Construction and extraction | \$24.93 | \$23.47 | \$26.63 | \$25.54 | \$23.70 | \$24.40 | \$23.09 | \$21.46 | \$24.37 | \$26.32 |
| Installation, maintenance, and repair | \$26.62 | \$25.03 | \$26.94 | \$25.74 | \$24.69 | \$26.92 | \$25.33 | \$22.97 | \$23.60 | \$26.15 |
| Production | \$21.32 | \$19.73 | \$21.05 | \$21.80 | \$20.03 | \$21.33 | \$22.14 | \$19.33 | \$20.58 | \$25.76 |
| Transportation and material moving | \$20.10 | \$17.22 | \$22.23 | \$17.77 | \$19.27 | \$21.98 | \$18.67 | \$19.26 | \$17.47 | \$21.65 |

Table 11. Comparing Occupational Wages by Areas (Colorado, 2020)
Architecture and engineering

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 49.97$ | $\$ 103,934$ |
| Northwest Colorado | $\$ 48.94$ | $\$ 101,801$ |
| Colorado | $\$ 45.96$ | $\$ 95,591$ |
| Denver-Aurora-Lakewood | $\$ 45.82$ | $\$ 95,309$ |
| Colorado Springs | $\$ 45.40$ | $\$ 94,438$ |
| Fort Collins | $\$ 45.10$ | $\$ 93,804$ |
| Pueblo | $\$ 42.92$ | $\$ 89,269$ |
| Greeley | $\$ 42.23$ | $\$ 87,830$ |
| Southwest Colorado | $\$ 41.09$ | $\$ 85,458$ |
| Eastern \& Southern Colorado | $\$ 38.42$ | $\$ 79,908$ |
| Grand Junction | $\$ 32.40$ | $\$ 67,384$ |

Arts, design, entertainment, sports, and media

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 31.93$ | $\$ 66,423$ |
| Denver-Aurora-Lakewood | $\$ 29.77$ | $\$ 61,926$ |
| Colorado | $\$ 28.59$ | $\$ 59,464$ |
| Colorado Springs | $\$ 27.36$ | $\$ 56,913$ |
| Greeley | $\$ 27.00$ | $\$ 56,156$ |
| Northwest Colorado | $\$ 25.34$ | $\$ 52,702$ |
| Fort Collins | $\$ 25.28$ | $\$ 52,581$ |
| Pueblo | $\$ 24.06$ | $\$ 50,039$ |
| Southwest Colorado | $\$ 22.92$ | $\$ 47,671$ |
| Grand Junction | $\$ 21.11$ | $\$ 43,907$ |
| Eastern \& Southern Colorado | $\$ 17.71$ | $\$ 36,846$ |

Building and grounds cleaning and maintenance

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 18.25$ | $\$ 37,952$ |
| Northwest Colorado | $\$ 17.77$ | $\$ 36,971$ |
| Greeley | $\$ 16.99$ | $\$ 35,344$ |
| Southwest Colorado | $\$ 16.67$ | $\$ 34,665$ |
| Colorado | $\$ 16.46$ | $\$ 34,241$ |
| Denver-Aurora-Lakewood | $\$ 16.39$ | $\$ 34,092$ |
| Fort Collins | $\$ 16.26$ | $\$ 33,826$ |
| Grand Junction | $\$ 16.15$ | $\$ 33,591$ |
| Pueblo | $\$ 15.31$ | $\$ 31,835$ |
| Colorado Springs | $\$ 15.29$ | $\$ 31,807$ |
| Eastern \& Southern Colorado | $\$ 14.86$ | $\$ 30,900$ |

Business and financial operations

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 42.29$ | $\$ 87,953$ |
| Denver-Aurora-Lakewood | $\$ 41.52$ | $\$ 86,352$ |
| Colorado | $\$ 40.16$ | $\$ 83,527$ |
| Colorado Springs | $\$ 37.43$ | $\$ 77,863$ |
| Fort Collins | $\$ 37.10$ | $\$ 77,162$ |
| Greeley | $\$ 36.40$ | $\$ 75,707$ |
| Northwest Colorado | $\$ 35.68$ | $\$ 74,219$ |
| Grand Junction | $\$ 32.63$ | $\$ 67,861$ |
| Pueblo | $\$ 32.49$ | $\$ 67,571$ |
| Southwest Colorado | $\$ 32.02$ | $\$ 66,609$ |
| Eastern \& Southern Colorado | $\$ 30.61$ | $\$ 63,675$ |

Community and social service

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 26.29$ | $\$ 54,693$ |
| Boulder | $\$ 26.08$ | $\$ 54,252$ |
| Fort Collins | $\$ 25.86$ | $\$ 53,789$ |
| Northwest Colorado | $\$ 25.84$ | $\$ 53,757$ |
| Colorado | $\$ 25.46$ | $\$ 52,962$ |
| Southwest Colorado | $\$ 24.84$ | $\$ 51,665$ |
| Colorado Springs | $\$ 24.73$ | $\$ 51,440$ |
| Greeley | $\$ 24.73$ | $\$ 51,436$ |
| Pueblo | $\$ 24.07$ | $\$ 50,059$ |
| Grand Junction | $\$ 22.66$ | $\$ 47,141$ |
| Eastern \& Southern Colorado | $\$ 21.39$ | $\$ 44,495$ |

## Construction and extraction

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 26.63$ | $\$ 55,395$ |
| Northwest Colorado | $\$ 26.32$ | $\$ 54,738$ |
| Colorado | $\$ 25.59$ | $\$ 53,223$ |
| Fort Collins | $\$ 25.54$ | $\$ 53,132$ |
| Boulder | $\$ 24.93$ | $\$ 51,844$ |
| Greeley | $\$ 24.40$ | $\$ 50,754$ |
| Southwest Colorado | $\$ 24.37$ | $\$ 50,689$ |
| Grand Junction | $\$ 23.70$ | $\$ 49,298$ |
| Colorado Springs | $\$ 23.47$ | $\$ 48,825$ |
| Pueblo | $\$ 23.09$ | $\$ 48,036$ |
| Eastern \& Southern Colorado | $\$ 21.46$ | $\$ 44,637$ |

Computer and mathematical

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 50.15$ | $\$ 104,314$ |
| Denver-Aurora-Lakewood | $\$ 49.26$ | $\$ 102,462$ |
| Colorado | $\$ 48.33$ | $\$ 100,523$ |
| Colorado Springs | $\$ 47.11$ | $\$ 97,997$ |
| Fort Collins | $\$ 42.70$ | $\$ 88,808$ |
| Greeley | $\$ 40.35$ | $\$ 83,924$ |
| Northwest Colorado | $\$ 39.85$ | $\$ 82,881$ |
| Pueblo | $\$ 35.81$ | $\$ 74,482$ |
| Southwest Colorado | $\$ 35.26$ | $\$ 73,347$ |
| Grand Junction | $\$ 34.62$ | $\$ 72,012$ |
| Eastern \& Southern Colorado | $\$ 31.88$ | $\$ 66,304$ |

## Educational instruction and library

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 30.38$ | $\$ 63,184$ |
| Boulder | $\$ 30.29$ | $\$ 63,008$ |
| Fort Collins | $\$ 29.47$ | $\$ 61,299$ |
| Colorado | $\$ 27.98$ | $\$ 58,206$ |
| Greeley | $\$ 25.66$ | $\$ 53,378$ |
| Pueblo | $\$ 25.11$ | $\$ 52,225$ |
| Colorado Springs | $\$ 24.41$ | $\$ 50,771$ |
| Northwest Colorado | $\$ 24.36$ | $\$ 50,663$ |
| Grand Junction | $\$ 22.16$ | $\$ 46,091$ |
| Southwest Colorado | $\$ 21.58$ | $\$ 44,880$ |
| Eastern \& Southern Colorado | $\$ 20.19$ | $\$ 41,988$ |

Farming, fishing, and forestry

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Northwest Colorado | $\$ 23.03$ | $\$ 47,897$ |
| Boulder | $\$ 20.04$ | $\$ 41,692$ |
| Pueblo | $\$ 18.10$ | $\$ 37,649$ |
| Greeley | $\$ 17.55$ | $\$ 36,502$ |
| Colorado | $\$ 17.15$ | $\$ 35,668$ |
| Fort Collins | $\$ 17.02$ | $\$ 35,408$ |
| Southwest Colorado | $\$ 16.88$ | $\$ 35,116$ |
| Denver-Aurora-Lakewood | $\$ 16.71$ | $\$ 34,752$ |
| Colorado Springs | $\$ 16.09$ | $\$ 33,469$ |
| Eastern \& Southern Colorado | $\$ 16.00$ | $\$ 33,278$ |
| Grand Junction | $\$ 15.70$ | $\$ 32,649$ |

Food preparation and serving related

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Northwest Colorado | $\$ 17.07$ | $\$ 35,504$ |
| Boulder | $\$ 15.56$ | $\$ 32,369$ |
| Denver-Aurora-Lakewood | $\$ 15.35$ | $\$ 31,927$ |
| Colorado | $\$ 15.07$ | $\$ 31,346$ |
| Fort Collins | $\$ 15.02$ | $\$ 31,250$ |
| Colorado Springs | $\$ 14.19$ | $\$ 29,518$ |
| Southwest Colorado | $\$ 14.04$ | $\$ 29,212$ |
| Greeley | $\$ 13.97$ | $\$ 29,060$ |
| Grand Junction | $\$ 13.59$ | $\$ 28,269$ |
| Eastern \& Southern Colorado | $\$ 13.54$ | $\$ 28,161$ |
| Pueblo | $\$ 13.44$ | $\$ 27,945$ |

## Healthcare support

Healthcare practitioners and technical

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 47.26$ | $\$ 98,306$ |
| Denver-Aurora-Lakewood | $\$ 42.90$ | $\$ 89,237$ |
| Grand Junction | $\$ 42.82$ | $\$ 89,058$ |
| Fort Collins | $\$ 42.67$ | $\$ 88,764$ |
| Colorado | $\$ 42.18$ | $\$ 87,734$ |
| Northwest Colorado | $\$ 41.52$ | $\$ 86,360$ |
| Pueblo | $\$ 41.04$ | $\$ 85,363$ |
| Colorado Springs | $\$ 40.85$ | $\$ 84,962$ |
| Greeley | $\$ 37.47$ | $\$ 77,941$ |
| Southwest Colorado | $\$ 36.62$ | $\$ 76,170$ |
| Eastern \& Southern Colorado | $\$ 34.62$ | $\$ 72,009$ |


| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Northwest Colorado | $\$ 19.24$ | $\$ 40,028$ |
| Boulder | $\$ 18.03$ | $\$ 37,498$ |
| Denver-Aurora-Lakewood | $\$ 17.44$ | $\$ 36,283$ |
| Colorado | $\$ 17.09$ | $\$ 35,542$ |
| Fort Collins | $\$ 16.94$ | $\$ 35,245$ |
| Colorado Springs | $\$ 16.77$ | $\$ 34,879$ |
| Greeley | $\$ 16.67$ | $\$ 34,683$ |
| Grand Junction | $\$ 16.04$ | $\$ 33,370$ |
| Southwest Colorado | $\$ 15.83$ | $\$ 32,936$ |
| Pueblo | $\$ 15.66$ | $\$ 32,575$ |
| Eastern \& Southern Colorado | $\$ 15.13$ | $\$ 31,476$ |

Installation, maintenance, and repair

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 26.94$ | $\$ 56,043$ |
| Greeley | $\$ 26.92$ | $\$ 55,991$ |
| Boulder | $\$ 26.62$ | $\$ 55,362$ |
| Colorado | $\$ 26.20$ | $\$ 54,493$ |
| Northwest Colorado | $\$ 26.15$ | $\$ 54,388$ |
| Fort Collins | $\$ 25.74$ | $\$ 53,538$ |
| Pueblo | $\$ 25.33$ | $\$ 52,683$ |
| Colorado Springs | $\$ 25.03$ | $\$ 52,061$ |
| Grand Junction | $\$ 24.69$ | $\$ 51,355$ |
| Southwest Colorado | $\$ 23.60$ | $\$ 49,088$ |
| Eastern \& Southern Colorado | $\$ 22.97$ | $\$ 47,780$ |

Legal

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 58.91$ | $\$ 122,525$ |
| Colorado | $\$ 56.73$ | $\$ 117,993$ |
| Fort Collins | $\$ 49.17$ | $\$ 102,276$ |
| Colorado Springs | $\$ 46.52$ | $\$ 96,761$ |
| Greeley | $\$ 44.00$ | $\$ 91,518$ |
| Grand Jutnction | $\$ 40.06$ | $\$ 83,323$ |
| Southwest Colorado | $\$ 37.60$ | $\$ 78,207$ |
| Pueblo | $\$ 32.02$ | $\$ 66,593$ |
| Boulder | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Eastern \& Southern Colorado | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| Northwest Colorado | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |

## Management

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 73.86$ | $\$ 153,638$ |
| Denver-Aurora-Lakewood | $\$ 71.93$ | $\$ 149,612$ |
| Colorado | $\$ 67.65$ | $\$ 140,717$ |
| Colorado Springs | $\$ 60.15$ | $\$ 125,108$ |
| Fort Collins | $\$ 60.10$ | $\$ 125,002$ |
| Greeley | $\$ 59.63$ | $\$ 124,032$ |
| Northwest Colorado | $\$ 56.39$ | $\$ 117,295$ |
| Grand Junction | $\$ 53.07$ | $\$ 110,375$ |
| Pueblo | $\$ 52.80$ | $\$ 109,817$ |
| Southwest Colorado | $\$ 49.79$ | $\$ 103,567$ |
| Eastern \& Southern Colorado | $\$ 45.17$ | $\$ 93,963$ |

Office and administrative support

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 22.32$ | $\$ 46,420$ |
| Boulder | $\$ 22.10$ | $\$ 45,962$ |
| Northwest Colorado | $\$ 21.60$ | $\$ 44,927$ |
| Colorado | $\$ 21.32$ | $\$ 44,345$ |
| Fort Collins | $\$ 20.25$ | $\$ 42,112$ |
| Greeley | $\$ 20.13$ | $\$ 41,872$ |
| Colorado Springs | $\$ 19.49$ | $\$ 40,543$ |
| Grand Junction | $\$ 19.01$ | $\$ 39,543$ |
| Southwest Colorado | $\$ 19.00$ | $\$ 39,523$ |
| Pueblo | $\$ 18.91$ | $\$ 39,339$ |
| Eastern \& Southern Colorado | $\$ 18.26$ | $\$ 37,979$ |

Production

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Northwest Colorado | $\$ 25.76$ | $\$ 53,575$ |
| Pueblo | $\$ 22.14$ | $\$ 46,050$ |
| Fort Collins | $\$ 21.80$ | $\$ 45,350$ |
| Greeley | $\$ 21.33$ | $\$ 44,373$ |
| Boulder | $\$ 21.32$ | $\$ 44,346$ |
| Colorado | $\$ 21.08$ | $\$ 43,852$ |
| Denver-Aurora-Lakewood | $\$ 21.05$ | $\$ 43,782$ |
| Southwest Colorado | $\$ 20.58$ | $\$ 42,804$ |
| Grand Junction | $\$ 20.03$ | $\$ 41,666$ |
| Colorado Springs | $\$ 19.73$ | $\$ 41,043$ |
| Eastern \& Southern Colorado | $\$ 19.33$ | $\$ 40,202$ |

Personal care and service

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 19.44$ | $\$ 40,431$ |
| Northwest Colorado | $\$ 19.14$ | $\$ 39,806$ |
| Denver-Aurora-Lakewood | $\$ 17.48$ | $\$ 36,356$ |
| Colorado | $\$ 17.42$ | $\$ 36,224$ |
| Southwest Colorado | $\$ 16.99$ | $\$ 35,329$ |
| Greeley | $\$ 16.60$ | $\$ 34,534$ |
| Colorado Springs | $\$ 16.41$ | $\$ 34,143$ |
| Fort Collins | $\$ 16.35$ | $\$ 34,011$ |
| Pueblo | $\$ 16.01$ | $\$ 33,294$ |
| Grand Junction | $\$ 14.98$ | $\$ 31,153$ |
| Eastern \& Southern Colorado | $\$ 14.66$ | $\$ 30,497$ |

## Protective service

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Boulder | $\$ 29.34$ | $\$ 61,025$ |
| Fort Collins | $\$ 28.27$ | $\$ 58,797$ |
| Denver-Aurora-Lakewood | $\$ 27.51$ | $\$ 57,221$ |
| Colorado | $\$ 26.59$ | $\$ 55,302$ |
| Southwest Colorado | $\$ 26.50$ | $\$ 55,129$ |
| Northwest Colorado | $\$ 25.87$ | $\$ 53,815$ |
| Greeley | $\$ 25.34$ | $\$ 52,710$ |
| Pueblo | $\$ 25.17$ | $\$ 52,355$ |
| Grand Junction | $\$ 24.78$ | $\$ 51,535$ |
| Colorado Springs | $\$ 23.90$ | $\$ 49,720$ |
| Eastern \& Southern Colorado | $\$ 23.61$ | $\$ 49,117$ |

Sales and related

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 28.71$ | $\$ 59,719$ |
| Boulder | $\$ 28.17$ | $\$ 58,604$ |
| Colorado | $\$ 25.97$ | $\$ 54,014$ |
| Fort Collins | $\$ 22.68$ | $\$ 47,177$ |
| Colorado Springs | $\$ 22.61$ | $\$ 47,030$ |
| Greeley | $\$ 22.43$ | $\$ 46,663$ |
| Northwest Colorado | $\$ 21.90$ | $\$ 45,561$ |
| Grand Junction | $\$ 20.44$ | $\$ 42,518$ |
| Southwest Colorado | $\$ 18.75$ | $\$ 39,005$ |
| Pueblo | $\$ 18.31$ | $\$ 38,093$ |
| Eastern \& Southern Colorado | $\$ 18.03$ | $\$ 37,499$ |

Transportation and material moving

| REGION | MEAN HOURLY | MEAN ANNUAL |
| :--- | :---: | :---: |
| Denver-Aurora-Lakewood | $\$ 22.23$ | $\$ 46,249$ |
| Greeley | $\$ 21.98$ | $\$ 45,728$ |
| Northwest Colorado | $\$ 21.65$ | $\$ 45,038$ |
| Colorado | $\$ 21.06$ | $\$ 43,800$ |
| Boulder | $\$ 20.10$ | $\$ 41,817$ |
| Grand Junction | $\$ 19.27$ | $\$ 40,091$ |
| Eastern \& Southern Colorado | $\$ 19.26$ | $\$ 40,070$ |
| Pueblo | $\$ 18.67$ | $\$ 38,842$ |
| Fort Collins | $\$ 17.77$ | $\$ 36,962$ |
| Southwest Colorado | $\$ 17.47$ | $\$ 36,336$ |
| Colorado Springs | $\$ 17.22$ | $\$ 35,823$ |

## Regional Employment Distribution in Major Occupational and Industry Groups

The top five occupational groups and industry sectors (by employment) for each MSA and BOS area are shown in Figures 6a-j and 7a-j, respectively. Employment distribution and average hourly wages for major occupational and industry groups for each MSA and BOS area are shown in Figures 8 through 17. Percentile wages for major industry groups in each region are included in Tables 13 through 22.

The office and administrative support; sales and related; and food preparation and serving related occupational groups were consistently included in the top five occupational groups for almost all areas. Occupational groups also ranking in the top five across multiple areas included construction and extraction; business and financial operations; healthcare practitioners and technical; educational instruction and library; and transportation and material moving. Groups that consistently have relatively lower employment across most regions include farming, fishing, and forestry; legal; community and social service; life, physical, and social sciences; and arts, design, entertainment, sports, and media occupations.

Figure 6a. Boulder MSA Top 5 Occupational Groups, 2020


Figure 6b. Colorado Springs MSA Top 5 Occupational Groups, 2020


Figure 6c. Denver-Aurora-Lakewood MSA
Top 5 Occupational Groups, 2020


Figure 6e. Grand Junction MSA Top 5 Occupational Groups, 2020


Figure 6d. Fort Collins MSA
Top 5 Occupational Groups, 2020


Figure 6f. Greeley MSA
Top 5 Occupational Groups, 2020


Figure 6g. Pueblo MSA
Top 5 Occupational Groups, 2020


Figure 6i. Southwest Colorado Top 5 Occupational Groups, 2020


Figure 6h. Eastern and Southern Colorado
Top 5 Occupational Groups, 2020


Figure 6j. Northwest Colorado Top 5 Occupational Groups, 2020


## Regional Employment Distribution in Major Occupational and Industry Groups (continued)

With regard to major industry sectors, retail trade, health care and social assistance, educational services, and accommodation and food services are consistently among the top five employers in most if not all Colorado regions. Public administration is a relatively more important employer in the three BOS areas and the Pueblo and Grand Junction MSAs and is the largest or second-largest industry in terms of employment in the Eastern and Southern Colorado and Southwest Colorado BOS areas, partly due to the presence of correctional facilities in these locations. The manufacturing industry is one of the top five employers in the Boulder, Fort Collins, and Greeley MSAs.

Industries employing relatively fewer workers in most areas include utilities; management of companies and enterprises; and agriculture, forestry, fishing, and hunting. Industries for which employment is relatively more prominent (in the top ten) in a few areas include professional, scientific, and technical services in the Boulder, Colorado Springs, and Denver MSAs and construction in the Greeley MSA and Northwest Colorado BOS area.

Figure 7a. Boulder MSA Top 5 Industry Sectors, 2020


Figure 7b. Colorado Springs MSA Top 5 Industry Sectors, 2020


Figure 7c. Denver-Aurora-Lakewood MSA
Top 5 Industry Sectors, 2020

Figure 7e. Grand Junction MSA Top 5 Industry Sectors, 2020

(2) =


Figure 7d. Fort Collins MSA
Top 5 Industry Sectors, 2020


Figure 7f. Greeley MSA
Top 5 Industry Sectors, 2020


Figure 7g. Pueblo MSA
Top 5 Industry Sectors, 2020


Figure 7i. Southwest Colorado Top 5 Industry Sectors, 2020


Figure 7h. Eastern and Southern Colorado Top 5 Industry Sectors, 2020

Figure 7j. Northwest Colorado Top 5 Industry Sectors, 2020


## State and Regional Location Quotients (LQs)

Location quotients in OEWS describe the concentration of an occupation in a specific area relative to the nation as a whole. Reflecting the importance of the extraction industry and the presence of national atmospheric and environmental laboratories, the state of Colorado has higher than expected concentrations of mining occupations (mining and geological engineers; hydrologists; cartographers and photogrammetrists; geoscientists; wellhead pumpers; service unit operators; roustabouts; and petroleum engineers) in addition to conservation scientists; physicists; environmental scientists and specialists; and aerospace engineers (location quotients ranging from 1.63 to 4.72).

The ten occupations with the highest location quotients statewide and in each region are shown in Tables 12a and 12b. Location quotients for detailed occupations are included in Tables 23-33.

Table 12a. Statewide Location Quotients (Colorado, May 2020)

| SOC CODE | SOC TITLE | EMPLOYMENT | LQ |
| :---: | :--- | :---: | :---: |
| $41-9021$ | Real estate brokers | 3,920 | 4.74 |
| $17-1021$ | Cartographers and photogrammetrists | 1,100 | 4.72 |
| $27-2023$ | Umpires, referees, and other sports officials | 1,350 | 4.38 |
| $43-4199$ | Information and record clerks, all other | 11,620 | 4.21 |
| $53-7073$ | Wellhead pumpers | 940 | 4.21 |
| $49-3091$ | Bicycle repairers | 810 | 3.88 |
| $17-2061$ | Computer hardware engineers | 4,350 | 3.63 |
| $19-2012$ | Physicists | 1,000 | 3.35 |
| $19-2043$ | Hydrologists | 380 | 3.34 |
| $31-9011$ | Massage therapists | 5,240 | 3.32 |

Table 12b. Regional Location Quotients (Colorado, May 2020)

| AREA NAME | SOC CODE | SOC TITLE | EMPLOYMENT | LQ |
| :--- | :---: | :--- | :---: | :---: |
| Boulder | $19-2012$ | Physicists | 890 | 42.24 |
| Boulder | $17-2031$ | Bioengineers and biomedical engineers | 300 | 12.53 |
| Boulder | $19-1021$ | Biochemists and biophysicists | 450 | 10.89 |
| Boulder | $17-2011$ | Aerospace engineers | 810 | 10.26 |
| Boulder | $17-2041$ | Chemical engineers | 310 | 9.30 |
| Boulder | $19-2041$ | Environmental scientists and specialists, <br> including health | 990 | 8.98 |
| Boulder | $17-2061$ | Computer hardware engineers | 750 | 8.85 |
| Boulder | $25-1032$ | Engineering teachers, postsecondary | 420 | 8.42 |
| Boulder | $17-1021$ | Cartographers and photogrammetrists | 130 | 7.61 |
| Boulder | $51-8091$ | Chemical plant and system operators | 290 | 7.56 |
| Colorado Springs | $21-2099$ | Religious workers, all other | 180 | 10.01 |
| Colorado Springs | $17-2061$ | Computer hardware engineers | 930 | 7.21 |
| Colorado Springs | $47-2171$ | Reinforcing iron and rebar workers | 200 | 5.32 |
| Colorado Springs | $27-4098$ | Lighting technicians and media and <br> communication, equipment workers, all <br> other | 220 | 5.05 |
| Colorado Springs | $31-9011$ | Massage therapists | 810 | 4.76 |
| Colorado Springs | $43-4199$ | Information and record clerks, all other | 1,360 | 4.55 |
| Colorado Springs | $11-9039$ | Education administrators, all other | 380 | 4.41 |
| Colorado Springs | $15-1212$ | lnformation security analysts | 1,080 | 3.92 |
| Colorado Springs | $53-3099$ | Motor vehicle operators, all other | 370 | 3.61 |
| Colorado Springs | $53-3031$ | Driver/sales workers | 2,990 | 3.56 |
| Denver-Aurora- <br> Lakewood | $17-1021$ | Cartographers and photogrammetrists | 840 | 6.38 |
| Denver-Aurora- <br> Lakewood | $41-9021$ | Real estate brokers | 2,490 | 5.32 |
| Denver-Aurora- <br> Lakewood | $27-2023$ | Umpires, referees, and other sports <br> offfials | 880 | 5.09 |
| Denver-Aurora- <br> Lakewood | $43-4199$ | Information and record clerks, all other | 7,080 | 4.54 |
| Denver-Aurora- <br> Lakewood | $19-2042$ | Geoscientists, except hydrologists and <br> geographers | 1,180 | 4.05 |
| Denver-Aurora- <br> Lakewood | $53-2011$ | Airline pilots, copilots, and flight <br> engineers | 3,410 | 3.90 |
| Denver-Aurora- <br> Lakewood | $49-3091$ | Bicycle repairers | 450 | 3.80 |
| Denver-Aurora- <br> Lakewood | $53-3099$ | Motor vehicle operators, all other | 2,020 | 3.75 |
| Denver-Aurora- <br> Lakewood | $19-3092$ | Geographers | 60 | 3.68 |
| Denver-Aurora- <br> Lakewood | $31-9011$ | Massage therapists | 3,240 | 3.64 |
|  |  |  |  |  |


| AREA NAME | SOC CODE | SOC TITLE | EMPLOYMENT | LQ |
| :---: | :---: | :---: | :---: | :---: |
| Fort Collins | 19-1031 | Conservation scientists | 620 | 24.93 |
| Fort Collins | 17-2061 | Computer hardware engineers | 830 | 11.47 |
| Fort Collins | 19-1013 | Soil and plant scientists | 170 | 10.58 |
| Fort Collins | 51-9012 | Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders | 520 | 9.74 |
| Fort Collins | 33-9021 | Private detectives and investigators | 270 | 7.48 |
| Fort Collins | 19-1032 | Foresters | 80 | 7.31 |
| Fort Collins | 19-4042 | Environmental science and protection technicians, including health | 240 | 6.74 |
| Fort Collins | 49-3091 | Bicycle repairers | 80 | 5.99 |
| Fort Collins | 43-4199 | Information and record clerks, all other | 960 | 5.73 |
| Fort Collins | 25-2051 | Special education teachers, preschool | 130 | 5.67 |
| Grand Junction | 47-5071 | Roustabouts, oil and gas | 320 | 16.84 |
| Grand Junction | 17-3031 | Surveying and mapping technicians | 160 | 6.90 |
| Grand Junction | 49-3052 | Motorcycle mechanics | 40 | 6.62 |
| Grand Junction | 33-9091 | Crossing guards and flaggers | 230 | 6.32 |
| Grand Junction | 29-1215 | Family medicine physicians | 220 | 5.24 |
| Grand Junction | 49-3093 | Tire repairers and changers | 170 | 4.15 |
| Grand Junction | 43-4199 | Information and record clerks, all other | 260 | 4.07 |
| Grand Junction | 21-1029 | Social workers, all other | 100 | 4.04 |
| Grand Junction | 51-5113 | Print binding and finishing workers | 70 | 3.83 |
| Grand Junction | 53-3099 | Motor vehicle operators, all other | 80 | 3.83 |
| Greeley | 53-7073 | Wellhead pumpers | 390 | 42.75 |
| Greeley | 47-5013 | Service unit operators, oil and gas | 1,030 | 31.16 |
| Greeley | 47-5071 | Roustabouts, oil and gas | 960 | 28.59 |
| Greeley | 47-5081 | Helpers--extraction workers | 100 | 10.69 |
| Greeley | 27-2023 | Umpires, referees, and other sports officials | 130 | 10.49 |
| Greeley | 47-5012 | Rotary drill operators, oil and gas | 110 | 9.19 |
| Greeley | 49-9081 | Wind turbine service technicians | 40 | 9.08 |
| Greeley | 45-2011 | Agricultural inspectors | 70 | 6.99 |
| Greeley | 51-8099 | Plant and system operators, all other | 70 | 6.71 |
| Greeley | 51-9012 | Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders | 240 | 6.63 |

Table 12b. Regional Location Quotients (Colorado, May 2020) continued


## Boulder MSA

## Figure 8a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Boulder, May 2020)




## Boulder MSA

## Figure 8b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Boulder, May 2020)




## Boulder MSA

Table 13. Percentile Wages by Industry (Boulder MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th <br> Percentile Hourly | 10th Percentile Annual | 25th <br> Percentile Hourly | 25th <br> Percentile <br> Annual | Median Hourly | Median Annual | 75th Percentile Hourly | 75th <br> Percentile <br> Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$49.92 | \$103,843 | 2.80 | \$25.45 | \$52,941 | \$32.43 | \$67,449 | \$46.03 | \$95,739 | \$53.89 | \$112,082 | \$78.40 | \$163,067 |
| Professional, scientific, and technical services | \$48.79 | \$101,490 | 1.67 | \$20.96 | \$43,600 | \$29.87 | \$62,132 | \$43.59 | \$90,659 | \$62.29 | \$129,570 | \$82.81 | \$172,238 |
| Information | \$49.42 | \$102,804 | 3.19 | \$21.24 | \$44,173 | \$29.31 | \$60,957 | \$43.50 | \$90,490 | \$63.94 | \$132,999 | \$84.74 | \$176,269 |
| Management of companies and enterprises | \$48.36 | \$100,589 | 11.92 | \$16.06 | \$33,398 | \$22.77 | \$47,363 | \$36.47 | \$75,865 | \$61.11 | \$127,099 | \$102.06 | \$212,281 |
| Public administration | \$36.49 | \$75,899 | 5.30 | \$16.91 | \$35,167 | \$23.32 | \$48,503 | \$31.91 | \$66,374 | \$45.79 | \$95,251 | \$66.30 | \$137,900 |
| Wholesale trade | \$38.30 | \$79,663 | 4.10 | \$15.79 | \$32,838 | \$20.49 | \$42,614 | \$29.98 | \$62,356 | \$49.05 | \$102,025 | \$73.65 | \$153,191 |
| Educational services | \$33.93 | \$70,574 | 5.04 | \$15.10 | \$31,399 | \$21.02 | \$43,712 | \$29.80 | \$61,987 | \$41.72 | \$86,784 | \$58.39 | \$121,453 |
| Manufacturing | \$35.26 | \$73,339 | 4.38 | \$14.17 | \$29,466 | \$18.16 | \$37,767 | \$27.94 | \$58,115 | \$45.78 | \$95,219 | \$69.35 | \$144,251 |
| Finance and insurance | \$37.88 | \$78,783 | 5.36 | \$14.97 | \$31,141 | \$19.29 | \$40,130 | \$27.76 | \$57,750 | \$44.50 | \$92,569 | \$75.92 | \$157,910 |
| Mining | \$32.66 | \$67,927 | 11.80 | \$15.49 | \$32,216 | \$20.26 | \$42,141 | \$26.16 | \$54,409 | \$40.75 | \$84,759 | \$60.62 | \$126,096 |
| Construction | \$29.11 | \$60,551 | 2.11 | \$16.31 | \$33,929 | \$19.85 | \$41,294 | \$25.91 | \$53,893 | \$34.06 | \$70,848 | \$45.19 | \$94,002 |
| Health care and social assistance | \$32.18 | \$66,933 | 3.14 | \$13.55 | \$28,179 | \$16.55 | \$34,424 | \$22.56 | \$46,919 | \$37.97 | \$78,987 | \$56.29 | \$117,081 |
| Real estate and rental and leasing | \$28.54 | \$59,361 | 10.51 | \$13.20 | \$27,458 | \$15.99 | \$33,254 | \$21.86 | \$45,466 | \$29.88 | \$62,157 | \$47.20 | \$98,168 |
| Transportation and warehousing | \$21.98 | \$45,711 | 2.83 | \$12.72 | \$26,465 | \$1t6.00 | \$33,275 | \$19.90 | \$41,385 | \$27.30 | \$56,791 | \$31.92 | \$66,396 |
| Administrative and support \& waste management and remediation services | \$25.69 | \$53,439 | 5.20 | \$12.72 | \$26,455 | \$14.87 | \$30,931 | \$19.32 | \$40,179 | \$26.84 | \$55,828 | \$45.27 | \$94,160 |
| Other services (except public administration) | \$23.42 | \$48,719 | 3.26 | \$12.11 | \$25,197 | \$13.28 | \$27,621 | \$18.10 | \$37,642 | \$28.51 | \$59,308 | \$40.46 | \$84,148 |
| Arts, entertainment, and recreation | \$24.32 | \$50,580 | 6.41 | \$12.10 | \$25,170 | \$12.52 | \$26,038 | \$17.63 | \$36,673 | \$29.35 | \$61,058 | \$46.52 | \$96,770 |
| Retail trade | \$20.15 | \$41,917 | 2.32 | \$12.21 | \$25,395 | \$13.01 | \$27,056 | \$15.74 | \$32,741 | \$21.46 | \$44,647 | \$32.72 | \$68,063 |
| Accommodation and food services | \$15.72 | \$32,690 | 3.33 | \$12.01 | \$24,974 | \$12.07 | \$25,112 | \$13.12 | \$27,284 | \$15.86 | \$32,999 | \$23.98 | \$49,879 |

[^3]
## Colorado Springs MSA

Figure 9a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Colorado Springs, May 2020)


## Colorado Springs MSA

Figure 9b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Colorado Springs, May 2020)



## Colorado Springs MSA

Table 14. Percentile Wages by Industry (Colorado Springs MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th Percentile Hourly | $\begin{aligned} & \text { 25th } \\ & \text { Percentile } \\ & \text { Annual } \end{aligned}$ | Median Hourly | Median Annual | $\qquad$ | 75th Percentile Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$51.25 | \$106,610 | 8.11 | \$24.80 | \$51,586 | \$34.80 | \$72,392 | \$48.72 | \$101,329 | \$65.18 | \$135,566 | \$83.33 | \$173,329 |
| Management of companies and enterprises | \$47.61 | \$99,027 | 7.10 | \$15.42 | \$32,071 | \$24.63 | \$51,221 | \$41.47 | \$86,258 | \$67.31 | \$140,001 | \$89.09 | \$185,317 |
| Professional, scientific, and technical services | \$43.14 | \$89,736 | 2.51 | \$14.86 | \$30,910 | \$23.71 | \$49,307 | \$39.35 | \$81,840 | \$57.58 | \$119,770 | \$76.37 | \$158,850 |
| Information | \$40.59 | \$84,425 | 4.93 | \$14.39 | \$29,937 | \$21.33 | \$44,358 | \$34.95 | \$72,705 | \$56.35 | \$117,199 | \$74.05 | \$154,014 |
| Public administration | \$35.26 | \$73,336 | 2.23 | \$17.78 | \$36,983 | \$23.24 | \$48,338 | \$32.30 | \$67,189 | \$44.79 | \$93,172 | \$56.43 | \$117,376 |
| Mining | \$30.61 | \$63,667 | 1.69 | \$14.45 | \$30,065 | \$19.86 | \$41,309 | \$27.29 | \$56,763 | \$37.29 | \$77,558 | \$53.52 | \$111,318 |
| Finance and insurance | \$31.93 | \$66,412 | 3.77 | \$15.30 | \$31,816 | \$19.37 | \$40,286 | \$24.72 | \$51,408 | \$37.78 | \$78,585 | \$58.69 | \$122,085 |
| Construction | \$27.17 | \$56,507 | 1.82 | \$15.03 | \$31,254 | \$18.34 | \$38,148 | \$23.73 | \$49,354 | \$31.51 | \$65,549 | \$42.95 | \$89,338 |
| Educational services | \$25.16 | \$52,325 | 2.08 | \$12.93 | \$26,885 | \$16.42 | \$34,162 | \$22.18 | \$46,144 | \$29.84 | \$62,068 | \$40.95 | \$85,175 |
| Manufacturing | \$28.45 | \$59,186 | 3.07 | \$12.83 | \$26,696 | \$15.89 | \$33,043 | \$21.75 | \$45,245 | \$34.29 | \$71,318 | \$55.83 | \$116,131 |
| Wholesale trade | \$28.15 | \$58,542 | 3.91 | \$12.45 | \$25,890 | \$15.54 | \$32,321 | \$21.11 | \$43,915 | \$32.45 | \$67,496 | \$51.66 | \$107,459 |
| Health care and social assistance | \$27.25 | \$56,685 | 1.63 | \$12.66 | \$26,332 | \$15.03 | \$31,272 | \$19.71 | \$40,993 | \$32.80 | \$68,229 | \$47.00 | \$97,770 |
| Other services (except public administration) | \$24.26 | \$50,467 | 2.86 | \$12.19 | \$25,346 | \$13.58 | \$28,251 | \$19.31 | \$40,164 | \$28.88 | \$60,079 | \$42.47 | \$88,341 |
| Transportation and warehousing | \$21.60 | \$44,933 | 2.48 | \$12.58 | \$26,168 | \$14.93 | \$31,051 | \$19.24 | \$40,019 | \$27.40 | \$56,987 | \$32.60 | \$67,812 |
| Real estate and rental and leasing | \$24.97 | \$51,941 | 10.96 | \$12.20 | \$25,381 | \$13.90 | \$28,907 | \$18.98 | \$39,480 | \$27.73 | \$57,674 | \$47.12 | \$98,011 |
| Administrative and support \& waste management and remediation services | \$19.87 | \$41,338 | 2.51 | \$12.22 | \$25,414 | \$13.32 | \$27,697 | \$16.14 | \$33,564 | \$21.31 | \$44,331 | \$31.41 | \$65,329 |
| Retail trade | \$17.85 | \$37,118 | 1.55 | \$12.08 | \$25,133 | \$12.37 | \$25,723 | \$14.53 | \$30,231 | \$18.96 | \$39,430 | \$26.61 | \$55,347 |
| Arts, entertainment, and recreation | \$17.96 | \$37,352 | 3.70 | \$12.01 | \$24,984 | \$12.13 | \$25,220 | \$13.41 | \$27,895 | \$20.81 | \$43,292 | \$29.59 | \$61,555 |
| Accommodation and food services | \$14.27 | \$29,684 | 1.53 | \$12.01 | \$24,976 | \$12.07 | \$25,111 | \$12.29 | \$25,563 | \$14.13 | \$29,397 | \$18.96 | \$39,429 |
| Agriculture, forestry, fishing and hunting | \$12.77 | \$26,570 | 5.73 | \$12.01 | \$24,977 | \$12.03 | \$25,032 | \$12.08 | \$25,135 | \$13.70 | \$28,491 | \$14.74 | \$30,652 |

[^4]
## Denver-Aurora-Lakewood MSA

Figure 10a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Denver-Aurora-Lakewood MSA, May 2020)




## Denver-Aurora-Lakewood MSA

Figure 10b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Denver-Aurora-Lakewood MSA, May 2020)




## Denver-Aurora-L-akewood MSA

Table 15. Percentile Wages by Industry (Denver-Aurora-Lakewood MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | $\begin{array}{\|c\|} \hline \text { 10th } \\ \text { Percentile } \\ \text { Annual } \end{array}$ | $\begin{array}{\|c} \text { 25th } \\ \text { Percentile } \\ \text { Hourly } \end{array}$ | $\begin{gathered} \text { 25th } \\ \text { Percentile } \\ \text { Annual } \end{gathered}$ | Median Hourly | Median Annual | 75th Percentile Hourly | 75th Percentile Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$45.53 | \$94,710 | 2.52 | \$24.84 | \$51,660 | \$34.71 | \$72,188 | \$44.49 | \$92,544 | \$51.87 | \$107,895 | \$64.46 | \$134,070 |
| Mining | \$51.42 | \$106,949 | 4.10 | \$20.45 | \$42,544 | \$27.97 | \$58,184 | \$43.06 | \$89,574 | \$64.01 | \$133,132 | \$96.28 | \$200,271 |
| Management of companies and enterprises | \$49.40 | \$102,749 | 2.32 | \$20.46 | \$42,559 | \$28.53 | \$59,346 | \$41.03 | \$85,337 | \$62.03 | \$129,013 | \$88.78 | \$184,661 |
| Professional, scientific, and technical services | \$48.17 | \$100,195 | 1.69 | \$19.35 | \$40,254 | \$27.76 | \$57,733 | \$40.55 | \$84,353 | \$61.66 | \$128,255 | \$85.27 | \$177,360 |
| Information | \$44.79 | \$93,167 | 1.69 | \$17.03 | \$35,420 | \$26.30 | \$54,704 | \$39.86 | \$82,909 | \$58.91 | \$122,531 | \$77.85 | \$161,918 |
| Public administration | \$35.19 | \$73,186 | 0.89 | \$15.48 | \$32,199 | \$22.73 | \$47,272 | \$31.32 | \$65,145 | \$45.31 | \$94,238 | \$58.76 | \$122,218 |
| Finance and insurance | \$38.38 | \$79,830 | 2.02 | \$16.22 | \$33,732 | \$21.16 | \$44,013 | \$30.73 | \$63,916 | \$47.45 | \$98,696 | \$69.52 | \$144,595 |
| Wholesale trade | \$35.17 | \$73,150 | 2.55 | \$15.00 | \$31,200 | \$19.12 | \$39,772 | \$27.40 | \$56,987 | \$42.53 | \$88,461 | \$67.56 | \$140,526 |
| Construction | \$30.29 | \$63,003 | 1.26 | \$16.74 | \$34,810 | \$20.65 | \$42,948 | \$26.76 | \$55,658 | \$35.39 | \$73,616 | \$48.70 | \$101,292 |
| Educational services | \$30.34 | \$63,106 | 5.66 | \$14.00 | \$29,116 | \$18.73 | \$38,962 | \$25.77 | \$53,604 | \$36.54 | \$76,011 | \$49.55 | \$103,057 |
| Manufacturing | \$30.87 | \$64,215 | 4.02 | \$13.46 | \$28,000 | \$16.86 | \$35,075 | \$23.48 | \$48,846 | \$37.38 | \$77,743 | \$60.01 | \$124,815 |
| Health care and social assistance | \$30.10 | \$62,609 | 1.58 | \$13.22 | \$27,492 | \$16.43 | \$34,179 | \$23.47 | \$48,808 | \$36.60 | \$76,119 | \$50.97 | \$106,018 |
| Real estate and rental and leasing | \$27.09 | \$56,352 | 3.79 | \$12.55 | \$26,112 | \$16.04 | \$33,365 | \$22.24 | \$46,264 | \$31.43 | \$65,365 | \$47.33 | \$98,437 |
| Transportation and warehousing | \$27.84 | \$57,909 | 6.00 | \$13.56 | \$28,196 | \$16.32 | \$33,940 | \$21.11 | \$43,914 | \$30.90 | \$64,269 | \$42.23 | \$87,839 |
| Other services (except public administration) | \$24.63 | \$51,235 | 2.60 | \$12.17 | \$25,318 | \$14.02 | \$29,167 | \$19.97 | \$41,543 | \$29.27 | \$60,891 | \$42.46 | \$88,327 |
| Administrative and support \& waste management and remediation services | \$23.75 | \$49,392 | 2.31 | \$12.28 | \$25,550 | \$13.90 | \$28,905 | \$17.96 | \$37,352 | \$26.53 | \$55,181 | \$43.16 | \$89,767 |
| Arts, entertainment, and recreation | \$22.95 | \$47,733 | 4.05 | \$12.07 | \$25,105 | \$12.55 | \$26,102 | \$16.03 | \$33,351 | \$24.89 | \$51,779 | \$37.46 | \$77,910 |
| Retail trade | \$18.65 | \$38,796 | 1.39 | \$12.14 | \$25,255 | \$12.71 | \$26,444 | \$15.20 | \$31,616 | \$19.54 | \$40,639 | \$28.73 | \$59,754 |
| Agriculture, forestry, fishing and hunting | \$18.07 | \$37,583 | 9.06 | \$12.04 | \$25,040 | \$12.08 | \$25,129 | \$14.28 | \$29,708 | \$19.70 | \$40,973 | \$29.98 | \$62,354 |
| Accommodation and food services | \$15.68 | \$32,605 | 1.65 | \$12.01 | \$24,973 | \$12.09 | \$25,150 | \$13.09 | \$27,234 | \$15.70 | \$32,655 | \$23.05 | \$47,938 |

[^5]
## Fort Collins MSA

Figure 11a. Employment Distribution and Average Hourly Wage in Major
Occupational Groups (Fort Collins, May 2020)



## Fort Collins MSA

## Figure 11b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Fort Collins, May 2020)




## Fort Collins MSA

Table 16. Percentile Wages by Industry (Fort Collins MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th <br> Percentile Hourly | 25th <br> Percentile <br> Annual | Median Hourly | Median Annual | 75th <br> Percentile <br> Hourly | 75th <br> Percentile <br> Annual | 90th <br> Percentile Hourly | 90th <br> Percentile <br> Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$46.78 | \$97,292 | 11.10 | \$19.79 | \$41,163 | \$33.04 | \$68,732 | \$44.32 | \$92,184 | \$53.86 | \$112,029 | \$77.03 | \$160,228 |
| Management of companies and enterprises | \$50.57 | \$105,196 | 20.07 | \$15.70 | \$32,658 | \$21.34 | \$44,396 | \$35.64 | \$74,136 | \$67.73 | \$140,880 | \$0.00 | \$0.00 |
| Professional, scientific, and technical services | \$37.79 | \$78,595 | 3.38 | \$14.87 | \$30,937 | \$20.66 | \$42,966 | \$32.06 | \$66,685 | \$47.87 | \$99,569 | \$68.09 | \$141,618 |
| Public administration | \$34.18 | \$71,092 | 4.45 | \$14.65 | \$30,476 | \$21.48 | \$44,676 | \$30.49 | \$63,414 | \$44.63 | \$92,824 | \$58.10 | \$120,839 |
| Manufacturing | \$32.76 | \$68,151 | 2.15 | \$14.93 | \$31,046 | \$18.29 | \$38,052 | \$26.43 | \$54,966 | \$40.20 | \$83,609 | \$60.42 | \$125,682 |
| Educational services | \$29.60 | \$61,568 | 5.82 | \$14.58 | \$30,332 | \$19.09 | \$39,702 | \$25.32 | \$52,669 | \$35.18 | \$73,168 | \$50.16 | \$104,343 |
| Construction | \$27.59 | \$57,397 | 1.60 | \$16.09 | \$33,469 | \$19.66 | \$40,892 | \$25.28 | \$52,575 | \$31.87 | \$66,291 | \$41.38 | \$86,073 |
| Finance and insurance | \$33.11 | \$68,863 | 4.79 | \$14.31 | \$29,768 | \$17.87 | \$37,162 | \$25.19 | \$52,399 | \$39.71 | \$82,590 | \$62.38 | \$129,747 |
| Wholesale trade | \$32.27 | \$67,113 | 4.24 | \$14.04 | \$29,204 | \$17.85 | \$37,134 | \$24.42 | \$50,790 | \$38.89 | \$80,892 | \$63.54 | \$132,168 |
| Information | \$30.05 | \$62,496 | 6.08 | \$12.39 | \$25,771 | \$16.38 | \$34,061 | \$23.90 | \$49,709 | \$37.27 | \$77,514 | \$54.54 | \$113,437 |
| Mining | \$28.64 | \$59,574 | 9.83 | \$16.08 | \$33,439 | \$18.18 | \$37,812 | \$23.12 | \$48,100 | \$36.83 | \$76,606 | \$51.01 | \$106,096 |
| Health care and social assistance | \$29.54 | \$61,434 | 3.31 | \$13.29 | \$27,634 | \$15.89 | \$33,053 | \$22.05 | \$45,868 | \$35.71 | \$74,270 | \$49.16 | \$102,245 |
| Transportation and warehousing | \$21.31 | \$44,321 | 1.73 | \$12.24 | \$25,455 | \$15.64 | \$32,529 | \$20.71 | \$43,074 | \$24.02 | \$49,952 | \$31.26 | \$65,030 |
| Real estate and rental and leasing | \$26.63 | \$55,398 | 8.55 | \$12.49 | \$25,988 | \$15.03 | \$31,259 | \$20.24 | \$42,103 | \$30.40 | \$63,232 | \$47.74 | \$99,300 |
| Administrative and support \& waste management and remediation services | \$20.50 | \$42,647 | 3.19 | \$12.13 | \$25,226 | \$13.52 | \$28,115 | \$16.94 | \$35,225 | \$22.14 | \$46,061 | \$32.87 | \$68,364 |
| Other services (except public administration) | \$20.45 | \$42,541 | 3.01 | \$12.04 | \$25,051 | \$12.48 | \$25,968 | \$16.16 | \$33,616 | \$24.75 | \$51,474 | \$36.29 | \$75,477 |
| Arts, entertainment, and recreation | \$19.15 | \$39,828 | 3.81 | \$12.02 | \$24,998 | \$12.23 | \$25,447 | \$14.89 | \$30,971 | \$20.74 | \$43,145 | \$29.17 | \$60,672 |
| Retail trade | \$18.00 | \$37,437 | 1.49 | \$12.09 | \$25,138 | \$12.37 | \$25,730 | \$14.57 | \$30,299 | \$19.35 | \$40,244 | \$26.97 | \$56,106 |
| Agriculture, forestry, fishing and hunting | \$17.34 | \$36,070 | 3.30 | \$12.03 | \$25,030 | \$12.09 | \$25,146 | \$14.20 | \$29,527 | \$22.80 | \$47,425 | \$28.09 | \$58,431 |
| Accommodation and food services | \$15.34 | \$31,901 | 1.75 | \$12.01 | \$24,972 | \$12.07 | \$25,102 | \$12.63 | \$26,277 | \$15.76 | \$32,791 | \$22.63 | \$47,074 |

[^6]
## Grand Junction MSA

## Figure 12a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Grand Junction, May 2020)




## Grand Junction MSA

Figure 12b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Grand Junction, May 2020)




## Grand Junction MSA

Table 17. Percentile Wages by Industry (Grand Junction MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th Percentile Hourly | 25th <br> Percentile <br> Annual | Median Hourly | Median Annual | 75th <br> Percentile Hourly | 75th <br> Percentile <br> Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$39.60 | \$82,360 | 9.33 | \$20.32 | \$42,275 | \$26.08 | \$54,250 | \$39.64 | \$82,453 | \$49.22 | \$102,371 | \$53.99 | \$112,291 |
| Management of companies and enterprises | \$44.16 | \$91,847 | 7.49 | \$18.12 | \$37,681 | \$22.88 | \$47,594 | \$36.81 | \$76,575 | \$54.11 | \$112,539 | \$79.54 | \$165,442 |
| Mining | \$30.44 | \$63,311 | 5.49 | \$17.22 | \$35,815 | \$20.78 | \$43,213 | \$26.03 | \$54,142 | \$35.13 | \$73,071 | \$47.83 | \$99,491 |
| Public administration | \$31.56 | \$65,640 | 6.89 | \$15.01 | \$31,219 | \$20.30 | \$42,222 | \$26.01 | \$54,095 | \$36.39 | \$75,684 | \$48.93 | \$101,783 |
| Professional, scientific, and technical services | \$28.55 | \$59,386 | 4.12 | \$12.82 | \$26,659 | \$16.45 | \$34,215 | \$23.55 | \$48,992 | \$35.42 | \$73,667 | \$50.99 | \$106,062 |
| Construction | \$25.20 | \$52,421 | 2.41 | \$14.41 | \$29,967 | \$17.76 | \$36,931 | \$22.99 | \$47,821 | \$29.57 | \$61,505 | \$39.04 | \$81,200 |
| Transportation and warehousing | \$24.58 | \$51,132 | 3.44 | \$13.59 | \$28,272 | \$17.14 | \$35,659 | \$21.55 | \$44,831 | \$30.15 | \$62,707 | \$37.93 | \$78,897 |
| Wholesale trade | \$25.80 | \$53,657 | 3.00 | \$13.00 | \$27,048 | \$16.11 | \$33,510 | \$21.43 | \$44,570 | \$30.68 | \$63,815 | \$43.29 | \$90,043 |
| Educational services | \$23.92 | \$49,749 | 1.53 | \$13.63 | \$28,347 | \$16.48 | \$34,289 | \$21.15 | \$44,000 | \$28.70 | \$59,700 | \$38.56 | \$80,203 |
| Information | \$24.18 | \$50,291 | 6.24 | \$12.20 | \$25,371 | \$13.44 | \$27,947 | \$20.77 | \$43,205 | \$33.32 | \$69,300 | \$39.37 | \$81,898 |
| Finance and insurance | \$27.22 | \$56,617 | 2.47 | \$12.56 | \$26,117 | \$16.13 | \$33,561 | \$20.62 | \$42,891 | \$30.89 | \$64,258 | \$47.76 | \$99,340 |
| Health care and social assistance | \$27.24 | \$56,649 | 3.00 | \$12.24 | \$25,460 | \$13.97 | \$29,067 | \$19.26 | \$40,051 | \$32.96 | \$68,560 | \$47.56 | \$98,916 |
| Manufacturing | \$22.70 | \$47,226 | 2.37 | \$12.63 | \$26,261 | \$14.80 | \$30,787 | \$18.81 | \$39,134 | \$25.48 | \$52,993 | \$38.04 | \$79,123 |
| Real estate and rental and leasing | \$23.77 | \$49,431 | 9.29 | \$12.24 | \$25,451 | \$13.99 | \$29,103 | \$18.58 | \$38,653 | \$28.04 | \$58,323 | \$43.99 | \$91,504 |
| Administrative and support \& waste management and remediation services | \$18.58 | \$38,643 | 2.95 | \$12.23 | \$25,443 | \$13.27 | \$27,599 | \$15.61 | \$32,466 | \$21.31 | \$44,317 | \$26.66 | \$55,452 |
| Other services (except public administration) | \$18.95 | \$39,412 | 2.19 | \$12.07 | \$25,107 | \$12.36 | \$25,699 | \$15.54 | \$32,314 | \$22.39 | \$46,578 | \$31.31 | \$65,132 |
| Agriculture, forestry, fishing and hunting | \$19.45 | \$40,446 | 1.96 | \$12.03 | \$25,030 | \$12.21 | \$25,396 | \$15.25 | \$31,716 | \$25.05 | \$52,097 | \$33.31 | \$69,292 |
| Retail trade | \$17.64 | \$36,681 | 1.29 | \$12.09 | \$25,148 | \$12.40 | \$25,782 | \$14.31 | \$29,759 | \$18.64 | \$38,763 | \$27.33 | \$56,841 |
| Arts, entertainment, and recreation | \$16.37 | \$34,060 | 3.61 | \$12.04 | \$25,042 | \$12.16 | \$25,286 | \$13.75 | \$28,606 | \$16.83 | \$35,012 | \$23.52 | \$48,918 |
| Accommodation and food services | \$14.40 | \$29,948 | 3.13 | \$12.00 | \$24,970 | \$12.03 | \$25,029 | \$12.23 | \$25,437 | \$14.12 | \$29,370 | \$18.87 | \$39,243 |

*Percent relative standard error of the average wage

## Greeley MSA

## Figure $1 \times 2$ a, Employment Distribution and Average Hourly Wage in Major Occupational Groups (Greeley MSA, May 2020)



## Greeley MSA

## Bigure 133. Employment Distribution and Average Hourly Wage in Major Industry Groups (Greeley MSA, May 2020)



## Greeley MSA

Table.18._Percentile Wages by Industry (Greeley MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th Percentile Hourly | 25th Percentile Annual | Median Hourly | Median <br> Annual | 75th Percentile Hourly | 75th Percentile Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$38.34 | \$79,755 | 7.36 | \$21.32 | \$44,351 | \$26.20 | \$54,493 | \$36.71 | \$76,360 | \$48.54 | \$100,968 | \$58.30 | \$121,263 |
| Professional, scientific, and technical services | \$35.38 | \$73,592 | 4.74 | \$14.46 | \$30,086 | \$19.52 | \$40,609 | \$29.43 | \$61,218 | \$44.55 | \$92,654 | \$63.32 | \$131,710 |
| Public administration | \$27.77 | \$57,760 | 1.78 | \$12.37 | \$25,734 | \$18.40 | \$38,279 | \$25.51 | \$53,058 | \$34.28 | \$71,311 | \$44.96 | \$93,513 |
| Information | \$32.65 | \$67,903 | 15.66 | \$12.82 | \$26,656 | \$17.17 | \$35,714 | \$25.20 | \$52,421 | \$37.33 | \$77,649 | \$54.99 | \$114,383 |
| Mining | \$30.84 | \$64,148 | 2.05 | \$16.83 | \$35,003 | \$19.78 | \$41,143 | \$24.50 | \$50,952 | \$35.73 | \$74,320 | \$52.33 | \$108,844 |
| Transportation and warehousing | \$26.28 | \$54,654 | 2.44 | \$17.04 | \$35,453 | \$20.43 | \$42,501 | \$24.37 | \$50,696 | \$30.19 | \$62,805 | \$38.52 | \$80,123 |
| Construction | \$26.98 | \$56,122 | 1.74 | \$15.89 | \$33,050 | \$18.54 | \$38,573 | \$24.18 | \$50,289 | \$31.75 | \$66,045 | \$43.03 | \$89,511 |
| Wholesale trade | \$28.72 | \$59,736 | 2.59 | \$14.74 | \$30,654 | \$18.40 | \$38,267 | \$24.04 | \$50,009 | \$33.62 | \$69,924 | \$50.14 | \$104,287 |
| Educational services | \$26.63 | \$55,392 | 1.84 | \$14.29 | \$29,726 | \$17.80 | \$37,031 | \$23.05 | \$47,949 | \$31.36 | \$65,228 | \$44.64 | \$92,860 |
| Finance and insurance | \$27.19 | \$56,552 | 3.31 | \$14.21 | \$29,562 | \$17.13 | \$35,627 | \$22.73 | \$47,277 | \$32.05 | \$66,668 | \$47.38 | \$98,556 |
| Manufacturing | \$26.51 | \$55,139 | 5.00 | \$14.97 | \$31,138 | \$17.17 | \$35,718 | \$21.02 | \$43,716 | \$29.40 | \$61,146 | \$46.36 | \$96,429 |
| Health care and social assistance | \$25.30 | \$52,628 | 3.13 | \$12.42 | \$25,838 | \$14.60 | \$30,369 | \$19.25 | \$40,043 | \$31.10 | \$64,686 | \$43.02 | \$89,486 |
| Real estate and rental and leasing | \$23.10 | \$48,056 | 7.78 | \$12.19 | \$25,356 | \$14.25 | \$29,632 | \$18.77 | \$39,041 | \$25.59 | \$53,230 | \$38.10 | \$79,253 |
| Other services (except public administration) | \$21.81 | \$45,360 | 4.71 | \$12.17 | \$25,309 | \$13.67 | \$28,429 | \$17.87 | \$37,178 | \$26.76 | \$55,663 | \$35.68 | \$74,221 |
| Arts, entertainment, and recreation | \$24.40 | \$50,748 | 12.24 | \$12.03 | \$25,027 | \$12.42 | \$25,841 | \$17.65 | \$36,702 | \$28.61 | \$59,517 | \$41.82 | \$86,993 |
| Administrative and support \& waste management and remediation services | \$19.18 | \$39,885 | 3.73 | \$12.29 | \$25,570 | \$13.16 | \$27,374 | \$16.62 | \$34,560 | \$21.55 | \$44,820 | \$28.28 | \$58,832 |
| Agriculture, forestry, fishing and hunting | \$18.29 | \$38,044 | 7.79 | \$12.09 | \$25,142 | \$12.20 | \$25,385 | \$14.94 | \$31,082 | \$21.96 | \$45,669 | \$27.56 | \$57,334 |
| Retail trade | \$18.34 | \$38,141 | 2.45 | \$12.10 | \$25,168 | \$12.38 | \$25,757 | \$14.35 | \$29,852 | \$19.02 | \$39,560 | \$28.46 | \$59,188 |
| Accommodation and food services | \$13.75 | \$28,603 | 1.52 | \$12.01 | \$24,972 | \$12.05 | \$25,073 | \$12.30 | \$25,585 | \$13.98 | \$29,070 | \$16.41 | \$34,135 |

*Percent relative standard error of the average wage

## Pueblo MSA

## Figure 14a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Pueblo MSA, May 2020)




## Pueblo MSA

Figure 14b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Pueblo MSA, May 2020)




## Pueblo MSA

Table 19. Percentile Wages by Industry (Pueblo MSA, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th Percentile Hourly | 25th <br> Percentile Annual | Median Hourly | Median <br> Annual | 75th Percentile Hourly | 75th Percentile Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$43.74 | \$90,978 | 1.49 | \$29.64 | \$61,648 | \$36.64 | \$76,202 | \$44.52 | \$92,597 | \$50.30 | \$104,632 | \$53.89 | \$112,090 |
| Professional, scientific, and technical services | \$36.20 | \$75,301 | 5.13 | \$14.66 | \$30,493 | \$20.67 | \$42,989 | \$31.31 | \$65,116 | \$47.46 | \$98,716 | \$64.90 | \$134,994 |
| Management of companies and enterprises | \$36.83 | \$76,615 | 6.85 | \$17.31 | \$36,010 | \$21.75 | \$45,233 | \$30.29 | \$63,000 | \$46.81 | \$97,357 | \$67.74 | \$140,898 |
| Public administration | \$27.98 | \$58,189 | 2.63 | \$15.75 | \$32,750 | \$20.53 | \$42,703 | \$25.47 | \$52,985 | \$33.06 | \$68,755 | \$43.28 | \$90,023 |
| Educational services | \$25.73 | \$53,527 | 2.50 | \$13.74 | \$28,571 | \$18.06 | \$37,573 | \$23.35 | \$48,565 | \$30.84 | \$64,140 | \$40.81 | \$84,895 |
| Manufacturing | \$26.47 | \$55,048 | 3.34 | \$13.67 | \$28,430 | \$17.12 | \$35,603 | \$22.91 | \$47,648 | \$31.20 | \$64,890 | \$42.51 | \$88,426 |
| Construction | \$25.30 | \$52,623 | 2.92 | \$13.45 | \$27,967 | \$16.25 | \$33,799 | \$22.64 | \$47,093 | \$30.58 | \$63,603 | \$40.15 | \$83,507 |
| Information | \$25.83 | \$53,731 | 7.94 | \$12.18 | \$25,325 | \$15.68 | \$32,621 | \$21.55 | \$44,820 | \$32.67 | \$67,947 | \$44.47 | \$92,505 |
| Transportation and warehousing | \$22.04 | \$45,839 | 2.27 | \$13.56 | \$28,207 | \$17.07 | \$35,504 | \$20.96 | \$43,596 | \$24.52 | \$51,000 | \$31.27 | \$65,035 |
| Wholesale trade | \$23.23 | \$48,316 | 3.20 | \$13.17 | \$27,387 | \$16.03 | \$33,343 | \$20.43 | \$42,498 | \$25.51 | \$53,059 | \$35.07 | \$72,937 |
| Finance and insurance | \$23.93 | \$49,785 | 4.43 | \$12.42 | \$25,834 | \$14.69 | \$30,548 | \$19.73 | \$41,034 | \$27.72 | \$57,668 | \$40.10 | \$83,398 |
| Health care and social assistance | \$26.72 | \$55,588 | 3.44 | \$12.29 | \$25,561 | \$14.06 | \$29,254 | \$18.90 | \$39,316 | \$31.54 | \$65,609 | \$47.14 | \$98,048 |
| Administrative and support \& waste management and remediation services | \$21.11 | \$43,913 | 5.30 | \$12.27 | \$25,516 | \$13.55 | \$28,181 | \$16.49 | \$34,302 | \$23.50 | \$48,889 | \$36.49 | \$75,902 |
| Real estate and rental and leasing | \$19.21 | \$39,961 | 4.78 | \$12.39 | \$25,764 | \$13.74 | \$28,589 | \$16.45 | \$34,214 | \$20.70 | \$43,064 | \$32.26 | \$67,108 |
| Other services (except public administration) | \$18.71 | \$38,921 | 4.44 | \$12.06 | \$25,087 | \$12.31 | \$25,604 | \$15.43 | \$32,102 | \$21.22 | \$44,142 | \$30.39 | \$63,217 |
| Retail trade | \$16.81 | \$34,962 | 1.54 | \$12.07 | \$25,095 | \$12.25 | \$25,474 | \$13.68 | \$28,461 | \$17.55 | \$36,510 | \$24.59 | \$51,140 |
| Arts, entertainment, and recreation | \$16.60 | \$34,520 | 5.34 | \$12.03 | \$25,018 | \$12.14 | \$25,252 | \$12.90 | \$26,834 | \$18.01 | \$37,452 | \$24.24 | \$50,429 |
| Accommodation and food services | \$13.73 | \$28,552 | 2.71 | \$12.01 | \$24,974 | \$12.05 | \$25,067 | \$12.22 | \$25,421 | \$13.30 | \$27,668 | \$15.78 | \$32,822 |

[^7]
## Eastern \& Southern Colorado

Figure 15a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Eastern and Southern Colorado, May 2020)



## Eastern \& Southern Colorado

Figure 15b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Eastern and Southern Colorado, May 2020)



## Eastern \& Southern Colorado

Table 20. Percentile Wages by Industry (Eastern and Southern Colorado, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th <br> Percentile Hourly | 10th <br> Percentile Annual | 25th Percentile Hourly | 25th Percentile Annual | Median Hourly | Median Annual | 75th <br> Percentile Hourly | 75th Percentile Annual | 90th Percentile Hourly | 90th <br> Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Agriculture, forestry, fishing and hunting | \$17.06 | \$35,488 | 4.39 | \$12.05 | \$25,055 | \$12.12 | \$25,211 | \$13.72 | \$28,530 | \$18.78 | \$39,070 | \$27.89 | \$58,021 |
| Mining | \$29.74 | \$61,856 | 3.42 | \$15.76 | \$32,787 | \$17.95 | \$37,330 | \$23.64 | \$49,161 | \$35.68 | \$74,221 | \$51.28 | \$106,653 |
| Utilities | \$38.66 | \$80,417 | 3.24 | \$19.48 | \$40,510 | \$29.06 | \$60,447 | \$40.74 | \$84,742 | \$47.48 | \$98,751 | \$52.10 | \$108,378 |
| Construction | \$22.83 | \$47,496 | 3.99 | \$12.58 | \$26,171 | \$15.33 | \$31,885 | \$19.36 | \$40,277 | \$26.33 | \$54,759 | \$35.33 | \$73,489 |
| Manufacturing | \$21.15 | \$43,988 | 3.45 | \$13.19 | \$27,445 | \$15.82 | \$32,900 | \$18.28 | \$38,025 | \$22.94 | \$47,713 | \$31.53 | \$65,586 |
| Wholesale trade | \$22.99 | \$47,829 | 4.76 | \$12.23 | \$25,438 | \$13.34 | \$27,749 | \$17.76 | \$36,947 | \$25.49 | \$53,010 | \$40.58 | \$84,397 |
| Retail trade | \$16.83 | \$35,005 | 1.61 | \$12.06 | \$25,092 | \$12.23 | \$25,435 | \$13.86 | \$28,834 | \$17.99 | \$37,421 | \$24.39 | \$50,724 |
| Transportation and warehousing | \$23.13 | \$48,105 | 3.42 | \$12.35 | \$25,690 | \$17.52 | \$36,434 | \$22.13 | \$46,037 | \$28.97 | \$60,258 | \$33.86 | \$70,432 |
| Information | \$24.13 | \$50,196 | 4.98 | \$12.04 | \$25,043 | \$13.47 | \$28,018 | \$19.04 | \$39,596 | \$29.94 | \$62,270 | \$41.37 | \$86,051 |
| Finance and insurance | \$24.44 | \$50,842 | 5.93 | \$12.13 | \$25,237 | \$13.86 | \$28,835 | \$18.65 | \$38,784 | \$28.93 | \$60,178 | \$45.09 | \$93,780 |
| Real estate and rental and leasing | \$19.24 | \$40,027 | 10.70 | \$12.01 | \$24,979 | \$12.52 | \$26,039 | \$15.74 | \$32,737 | \$19.12 | \$39,780 | \$28.41 | \$59,090 |
| Professional, scientific, and technical services | \$26.24 | \$54,584 | 5.28 | \$12.20 | \$25,376 | \$14.31 | \$29,761 | \$19.65 | \$40,866 | \$31.07 | \$64,629 | \$44.57 | \$92,699 |
| Administrative and support \& waste management and remediation services | \$18.84 | \$39,179 | 2.67 | \$12.14 | \$25,254 | \$13.09 | \$27,229 | \$16.53 | \$34,383 | \$20.61 | \$42,872 | \$27.75 | \$57,713 |
| Educational services | \$21.33 | \$44,368 | 1.91 | \$12.44 | \$25,870 | \$15.35 | \$31,921 | \$18.97 | \$39,465 | \$24.58 | \$51,128 | \$32.40 | \$67,395 |
| Health care and social assistance | \$23.88 | \$49,666 | 1.78 | \$12.16 | \$25,302 | \$13.20 | \$27,451 | \$17.41 | \$36,216 | \$28.18 | \$58,604 | \$39.84 | \$82,867 |
| Accommodation and food services | \$13.58 | \$28,246 | 1.97 | \$12.01 | \$24,976 | \$12.05 | \$25,064 | \$12.17 | \$25,321 | \$13.14 | \$27,336 | \$15.61 | \$32,478 |
| Other services (except public administration) | \$18.98 | \$39,482 | 3.35 | \$12.01 | \$24,978 | \$12.24 | \$25,459 | \$15.54 | \$32,326 | \$22.47 | \$46,732 | \$30.02 | \$62,443 |
| Public administration | \$23.21 | \$48,275 | 2.70 | \$12.55 | \$26,113 | \$15.34 | \$31,898 | \$21.26 | \$44,215 | \$27.61 | \$57,423 | \$34.93 | \$72,651 |

[^8]
## Southwest Colorado

## Figure 16a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Southwest Colorado, May 2020)




## Southwest Colorado

Figure 16b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Southwest Colorado, May 2020)




## Southwest Colorado

Table 21. Percentile Wages by Industry (Southwest Colorado, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th Percentile Hourly | 10th Percentile Annual | 25th Percentile Hourly | 25th Percentile Annual | Median Hourly | Median <br> Annual | 75th Percentile Hourly | 75th Percentile Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mining | \$32.33 | \$67,249 | 5.65 | \$16.76 | \$34,869 | \$20.80 | \$43,273 | \$30.07 | \$62,551 | \$37.97 | \$78,986 | \$49.76 | \$103,503 |
| Utilities | \$41.21 | \$85,707 | 6.79 | \$20.22 | \$42,064 | \$28.44 | \$59,145 | \$40.04 | \$83,275 | \$49.66 | \$103,292 | \$64.27 | \$133,675 |
| Construction | \$24.44 | \$50,834 | 2.60 | \$13.65 | \$28,402 | \$17.24 | \$35,853 | \$22.53 | \$46,865 | \$29.50 | \$61,359 | \$36.56 | \$76,037 |
| Manufacturing | \$23.05 | \$47,935 | 3.88 | \$12.47 | \$25,941 | \$14.60 | \$30,367 | \$18.88 | \$39,277 | \$25.68 | \$53,408 | \$38.22 | \$79,499 |
| Wholesale trade | \$24.97 | \$51,941 | 5.83 | \$12.71 | \$26,437 | \$16.00 | \$33,281 | \$21.09 | \$43,872 | \$27.80 | \$57,821 | \$41.94 | \$87,241 |
| Retail trade | \$16.89 | \$35,127 | 2.07 | \$12.08 | \$25,133 | \$12.33 | \$25,638 | \$14.20 | \$29,529 | \$18.31 | \$38,076 | \$24.49 | \$50,930 |
| Transportation and warehousing | \$23.63 | \$49,156 | 4.53 | \$12.73 | \$26,480 | \$16.45 | \$34,225 | \$20.60 | \$42,857 | \$26.91 | \$55,970 | \$37.13 | \$77,238 |
| Information | \$26.84 | \$55,835 | 6.12 | \$13.05 | \$27,151 | \$16.43 | \$34,171 | \$22.64 | \$47,094 | \$33.77 | \$70,237 | \$46.93 | \$97,615 |
| Finance and insurance | \$25.74 | \$53,546 | 3.64 | \$13.97 | \$29,051 | \$16.83 | \$35,001 | \$20.51 | \$42,655 | \$28.60 | \$59,482 | \$45.26 | \$94,142 |
| Real estate and rental and leasing | \$21.39 | \$44,485 | 5.31 | \$12.09 | \$25,146 | \$14.22 | \$29,573 | \$19.05 | \$39,615 | \$25.08 | \$52,158 | \$34.17 | \$71,066 |
| Professional, scientific, and technical services | \$32.19 | \$66,960 | 4.25 | \$12.60 | \$26,205 | \$17.74 | \$36,906 | \$25.78 | \$53,633 | \$41.22 | \$85,737 | \$57.96 | \$120,561 |
| Management of companies and enterprises | \$49.86 | \$103,700 | 22.86 | \$17.37 | \$36,130 | \$23.21 | \$48,275 | \$31.01 | \$64,502 | \$64.38 | \$133,914 | \$0.00 | \$0.00 |
| Administrative and support \& waste management and remediation services | \$19.25 | \$40,035 | 4.53 | \$12.09 | \$25,142 | \$13.23 | \$27,514 | \$15.86 | \$32,987 | \$20.09 | \$41,794 | \$29.87 | \$62,134 |
| Educational services | \$22.99 | \$47,821 | 1.35 | \$13.48 | \$28,047 | \$16.49 | \$34,304 | \$21.13 | \$43,953 | \$27.16 | \$56,493 | \$35.13 | \$73,067 |
| Health care and social assistance | \$25.09 | \$52,182 | 2.01 | \$12.30 | \$25,581 | \$13.94 | \$28,994 | \$18.24 | \$37,948 | \$29.85 | \$62,098 | \$42.62 | \$88,652 |
| Accommodation and food services | \$14.62 | \$30,401 | 1.90 | \$12.01 | \$24,975 | \$12.06 | \$25,082 | \$12.28 | \$25,535 | \$14.56 | \$30,278 | \$19.98 | \$41,555 |
| Other services (except public administration) | \$20.41 | \$42,446 | 3.36 | \$12.07 | \$25,109 | \$13.35 | \$27,772 | \$17.31 | \$36,009 | \$23.77 | \$49,446 | \$31.52 | \$65,560 |
| Public administration | \$27.13 | \$56,432 | 1.30 | \$14.46 | \$30,082 | \$19.28 | \$40,108 | \$25.22 | \$52,462 | \$31.78 | \$66,108 | \$40.71 | \$84,683 |

[^9]
## Northwest Colorado

## Figure 17a. Employment Distribution and Average Hourly Wage in Major Occupational Groups (Northwest Colorado, May 2020)




## Northwest Colorado

## Figure 1/b. Employment Distribution and Average Hourly Wage in Major Industry Groups (Northwest Colorado, May 2020)




## Northwest Colorado

Table 22. Percentile Wages by Industry (Northwest Colorado, May 2020)


| NAICS Sector | Average Hourly | Average Annual | PRSE* | 10th <br> Percentile Hourly | 10th Percentile Annual | 25th <br> Percentile Hourly | 25th <br> Percentile <br> Annual | Median Hourly | Median Annual | 75th Percentile Hourly | 75th <br> Percentile <br> Annual | 90th Percentile Hourly | 90th Percentile Annual |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Utilities | \$44.09 | \$91,713 | 1.08 | \$28.64 | \$59,581 | \$37.15 | \$77,263 | \$44.96 | \$93,526 | \$50.66 | \$105,366 | \$59.92 | \$124,638 |
| Mining | \$36.07 | \$75,021 | 2.41 | \$21.50 | \$44,728 | \$26.95 | \$56,050 | \$33.79 | \$70,293 | \$40.00 | \$83,195 | \$54.12 | \$112,567 |
| Professional, scientific, and technical services | \$40.71 | \$84,676 | 5.01 | \$15.03 | \$31,260 | \$22.38 | \$46,541 | \$32.16 | \$66,898 | \$48.42 | \$100,711 | \$74.11 | \$154,145 |
| Public administration | \$29.26 | \$60,853 | 1.61 | \$15.64 | \$32,535 | \$20.15 | \$41,920 | \$26.72 | \$55,579 | \$35.90 | \$74,667 | \$46.70 | \$97,138 |
| Finance and insurance | \$34.02 | \$70,769 | 4.94 | \$15.22 | \$31,658 | \$18.44 | \$38,351 | \$26.17 | \$54,428 | \$37.71 | \$78,442 | \$63.64 | \$132,368 |
| Health care and social assistance | \$32.11 | \$66,797 | 2.24 | \$14.68 | \$30,538 | \$18.02 | \$37,476 | \$25.73 | \$53,522 | \$39.48 | \$82,127 | \$53.28 | \$110,824 |
| Information | \$30.41 | \$63,245 | 4.35 | \$13.47 | \$28,016 | \$17.74 | \$36,891 | \$25.36 | \$52,745 | \$36.85 | \$76,642 | \$59.16 | \$123,055 |
| Construction | \$28.23 | \$58,712 | 4.00 | \$16.34 | \$33,992 | \$20.05 | \$41,701 | \$24.93 | \$51,850 | \$31.24 | \$64,973 | \$42.67 | \$88,744 |
| Educational services | \$26.75 | \$55,631 | 2.35 | \$15.19 | \$31,601 | \$18.86 | \$39,234 | \$24.09 | \$50,097 | \$31.23 | \$64,961 | \$41.07 | \$85,422 |
| Agriculture, forestry, fishing and hunting | \$26.17 | \$54,433 | 12.95 | \$14.14 | \$29,402 | \$17.34 | \$36,069 | \$23.44 | \$48,757 | \$32.05 | \$66,665 | \$45.71 | \$95,085 |
| Transportation and warehousing | \$24.43 | \$50,815 | 3.26 | \$12.34 | \$25,663 | \$17.51 | \$36,423 | \$22.63 | \$47,062 | \$30.64 | \$63,736 | \$37.97 | \$78,980 |
| Wholesale trade | \$25.69 | \$53,435 | 4.11 | \$13.30 | \$27,657 | \$16.90 | \$35,151 | \$21.67 | \$45,074 | \$28.82 | \$59,950 | \$40.74 | \$84,737 |
| Manufacturing | \$23.77 | \$49,447 | 3.51 | \$12.18 | \$25,340 | \$16.26 | \$33,824 | \$21.50 | \$44,717 | \$28.05 | \$58,348 | \$35.80 | \$74,470 |
| Other services (except public administration) | \$23.61 | \$49,119 | 3.20 | \$12.23 | \$25,442 | \$14.97 | \$31,133 | \$19.81 | \$41,215 | \$28.45 | \$59,174 | \$39.65 | \$82,478 |
| Real estate and rental and leasing | \$24.12 | \$50,168 | 6.42 | \$12.17 | \$25,319 | \$14.68 | \$30,526 | \$19.03 | \$39,593 | \$26.27 | \$54,648 | \$40.27 | \$83,753 |
| Arts, entertainment, and recreation | \$23.44 | \$48,762 | 4.64 | \$12.35 | \$25,686 | \$14.18 | \$29,486 | \$18.11 | \$37,667 | \$26.86 | \$55,879 | \$39.84 | \$82,877 |
| Administrative and support \& waste management and remediation services | \$20.21 | \$42,027 | 3.42 | \$13.20 | \$27,450 | \$15.10 | \$31,411 | \$17.79 | \$37,009 | \$22.31 | \$46,408 | \$30.49 | \$63,427 |
| Retail trade | \$19.27 | \$40,079 | 1.75 | \$12.28 | \$25,539 | \$13.73 | \$28,563 | \$16.83 | \$35,012 | \$21.09 | \$43,872 | \$28.57 | \$59,423 |
| Accommodation and food services | \$18.80 | \$39,112 | 2.64 | \$12.01 | \$24,973 | \$12.28 | \$25,538 | \$15.80 | \$32,854 | \$19.78 | \$41,148 | \$29.64 | \$61,647 |

[^10]
## Technical Notes for May 2020 OEWS Estimates

In the spring of 2021, the Occupational Employment Statistics (OES) program began using the name Occupational Employment and Wage Statistics (OEWS) to better reflect the range of data available from the program. Data released on or after March 31, 2021 reflect the new program name. Data collection materials, including forms, emails, and letters, were updated for employers in the May 2021 survey panel. Web pages, publications, and other materials associated with previous data releases will retain the OES name.

## Scope of the survey

The OEWS survey is a semiannual survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OEWS data available from BLS include cross-industry occupational employment and wage estimates for the nation; over 580 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS (North American Industry Classification System sector, 3 -digit, most 4-digit, and selected 5- and 6-digit industry levels; and national estimates by ownership across all industries and for schools and hospitals.
The OEWS survey is a cooperative effort between BLS and the State Workforce Agencies (SWAs). BLS funds the survey and provides the procedures and technical support, while the SWAs collect most of the data. OEWS estimates are constructed from a sample of about 1.1 million establishments. Each year, two semiannual panels of approximately 180,000 to 185,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, internet or other electronic means, email, telephone, or personal visit. The May 2020 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2020, November 2019, May 2019, November 2018, May 2018, and November 2017. The unweighted sampled employment of 83 million across all six semiannual panels represents approximately 56 percent of total national employment. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 69 percent based on establishments and 66 percent based on weighted sampled employment.

## The occupational coding system

The May 2020 OEWS estimates contain nearly 800 occupational categories based on the Office of Management and Budget's Standard Occupational Classification (SOC) system. Together, these occupations make up 22 of the 23 SOC major occupational groups.

Major group 55, Military Specific Occupations, is not included.
The major groups are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social service occupations
- Legal occupations
- Educational instruction and library occupations
- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioner and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry, occupations
- Construction, and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations
- Transportation and material moving occupations
- Military specific occupations (not surveyed in OEWS)


## The occupational coding system (continued)

For more information about the SOC system, please see the BLS SOC page at bls.gov/soc/.

The May 2020 OEWS estimates use a hybrid of the 2010 and 2018 SOC systems. For more information on the hybrid classification system, please see the "Changes and special procedures in the May 2020 estimates" section of this technical note.

## The industry coding system

The May 2020 OEWS estimates use the 2017 North American Industry Classification System (NAICS). For more information about NAICS, see the BLS NAICS page at bls.gov/bls/naics.htm.

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

## Survey sample

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

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

## Concepts

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

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

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

## Wage Intervals used for the May 2020 OEWS Survey

| Interval | Hourly Wages | Annual Wages |
| ---: | ---: | ---: |
| Range A | Under $\$ 9.25$ | Under $\$ 19,240$ |
| Range B | $\$ 9.25$ to $\$ 11.99$ | $\$ 19,240$ to $\$ 24,959$ |
| Range C | $\$ 12.00$ to $\$ 15.49$ | $\$ 24,960$ to $\$ 32,239$ |
| Range D | $\$ 15.50$ to $\$ 19.74$ | $\$ 32,240$ to $\$ 41,079$ |
| Range E | $\$ 19.75$ to $\$ 25.49$ | $\$ 41,080$ to $\$ 53,039$ |
| Range F | $\$ 25.50$ to $\$ 32.74$ | $\$ 53,040$ to $\$ 68,119$ |
| Range G | $\$ 32.75$ to $\$ 41.99$ | $\$ 68,120$ to $\$ 87,359$ |
| Range H | $\$ 42.00$ to $\$ 53.99$ | $\$ 87,360$ to $\$ 112,319$ |
| Range I | $\$ 54.00$ to $\$ 69.49$ | $\$ 112,320$ to $\$ 144,559$ |
| Range J | $\$ 69.50$ to $\$ 89.49$ | $\$ 144,560$ to $\$ 186,159$ |
| Range K | $\$ 89.50$ to $\$ 114.99$ | $\$ 186,160$ to $\$ 239,199$ |
| Range L | $\$ 115.00$ and over | $\$ 239,200$ and over |

## Estimation methodology

The OEWS survey is designed to produce estimates by combining six panels of data collected over a 3 -year period. Each OEWS panel includes approximately 180,000 to 185,000 establishments. The full six-panel sample of nearly 1.1 million establishments allows the production of estimates at detailed levels of geography, industry, and occupation.

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

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

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

Weighting and benchmarking. The sampled establishments are weighted to represent all establishments for the reference period. Weights are further adjusted by the ratio of employment totals (the average of November 2019 and May 2020 employment) from the BLS Quarterly Census of Employment and Wages (QCEW) to employment totals from the OEWS survey.

Reliability of the estimates. Estimates developed from a sample will differ from the results of a census. An estimate based on a sample survey is subject to two types of error: sampling and nonsampling error. An estimate based on a census is subject only to nonsampling error.

Nonsampling error. This type of error is attributable to several causes, such as errors in the sampling frame; an inability to obtain information for all establishments in the sample; differences in respondents' interpretation of a survey question; an inability or unwillingness of the respondents to provide correct information; errors made in recording, coding, or processing the data; and errors made in imputing values for missing data. Explicit measures of the effects of nonsampling error are not available.

Sampling error. When a sample, rather than an entire population, is surveyed, estimates differ from the true population values that they represent. This difference, the sampling error, occurs by chance and its variability is measured by the variance of the estimate or the standard error of the estimate (square root of the variance). The relative standard error is the ratio of the standard error to the estimate itself.

Estimates of the sampling error for occupational employment and mean wage rates are provided for all employment and mean wage estimates to allow data users to determine if those statistics are reliable enough for their needs. Only a probability-based sample can be used to calculate estimates of sampling error. The formulas used to estimate OEWS variances are adaptations of formulas appropriate for the survey design used.

## Confidentiality

BLS has a strict confidentiality policy that ensures that the survey sample composition, lists of reporters, and names of respondents will be kept confidential. Additionally, the policy assures respondents that published figures will not reveal the identity of any specific respondent and will not allow the data of any specific respondent to be inferred. The most relevant statute which governs BLS confidentiality is the Confidential Information Protection and Statistical Efficiency Act (CIPSEA). Each published estimate is screened to ensure that it meets these confidentiality requirements. To further protect the confidentiality of the data, the specific screening criteria are not listed in this publication. For additional information regarding confidentiality, please visit the BLS website at bls.gov/bls/confidentiality.htm.

## Changes and special procedures in the May 2020 estimates

Due to features of the OEWS methodology, the May 2020 estimates do not fully reflect the impact of the COVID-19 pandemic. Because five of the six survey panels used to produce the estimates date from before the COVID-19 pandemic, only the most recent (May 2020) survey panel will reflect changes in occupational proportions related to the pandemic.

In addition, because the OEWS employment estimates are benchmarked to the average of QCEW employment for November 2019 and May 2020, the estimates will reflect only part of the pandemic's impact on employment as of May 2020. Although the May 2020 QCEW data reflect the early employment effects of the COVID-19 pandemic, the November 2019 QCEW employment data precede the COVID-19 pandemic, and therefore do not reflect its impact.

As a result of the pandemic, response rates for the November 2019 and May 2020 panels were lower in some areas. Lower response rates may negatively affect data availability and data quality.

For more information about the impact of the COVID-19 pandemic on OEWS, see the OEWS COVID-19 impact statement at bls.gov/covid19/effects-of-covid-19-pandemic-on-occupational-employment-and-wage-statistics.htm.

With the May 2019 estimates, the OEWS program began implementing the 2018 Standard Occupational Classification (SOC) system. Because the May 2020 estimates are based on a combination of survey data collected using the 2010 SOC and survey data collected using the 2018 SOC, these estimates use a hybrid of the two classification systems that contains some combinations of occupations that are not found in either the 2010 or 2018 SOC.

These combinations may include occupations from more than one 2018 SOC minor group or broad occupation. Therefore, OEWS will not publish data for some 2018 SOC minor groups and broad occupations in the May 2020 estimates. The May 2021 estimates, to be published in spring 2022, will be the first OEWS estimates based entirely on survey data collected using the 2018 SOC.

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

More information on the occupational classification system used in the May 2020 OEWS estimates is available on the OEWS 2018 SOC implementation page at bls.gov/OEWS/soc_2018.htm and in the OEWS frequently asked questions at bls.gov/OEWS/OEWS_ques.htm.

The May 2020 OEWS estimates use the metropolitan area definitions delineated in Office of Management and Budget (OMB) Bulletin 17-01. For more information, please see the OEWS area definitions at bls.gov/OEWS/current/msa_def.htm.

## Definitions

Covered Employment: Employment covered by state unemployment insurance laws or, for federal workers, covered by the Unemployment Compensation for Federal Employees program.

Establishment: A business, usually at a particular physical location, that engages in one or more types of economic activity; for example, a factory, mine, store, or office. Generally, a single establishment produces a single good or provides a single service. An enterprise (a private firm, government, or non-profit organization) could consist of a single establishment or multiple establishments. A multi-establishment enterprise could have all its establishments in one industry (i.e., a chain), or could have various establishments in different industries (i.e., a conglomerate). Some establishments, such as construction firms, may have a small fixed base but perform the bulk of their economic activity at various jobsites.

Occupation: A set of activities or tasks employees are paid to perform. Employees that perform essentially the same tasks are in the same occupation, whether or not they are in the same industry. Some occupations are concentrated in a few particular industries; other occupations are found in the majority of industries.

## Frequently asked questions about OEWS data

Answers to frequently asked questions about the OEWS data are available at bls.gov/OEWS/OEWS_ques.htm.

Colorado Regions: Metropolitan Statistical Areas (MSAs) and Balance of State (BOS) Areas

| MSA/BOS <br> Code | County <br> Code | County Name |
| :---: | :---: | :--- |
| Boulder MSA |  |  |
| 14500 | 013 | BOULDER |
| Colorado Springs MSA |  |  |
| 17820 | 041 | EL PASO |
| 17820 | 119 | TELLER |
| Denver-Aurora-Lakewood MSA |  |  |
| 19740 | 001 | ADAMS |
| 19740 | 005 | ARAPAHOE |
| 19740 | 014 | BROOMFIELD |
| 19740 | 019 | CLEAR CREEK |
| 19740 | 031 | DENVER |
| 19740 | 035 | DOUGLAS |
| 19740 | 039 | ELBERT |
| 19740 | 047 | GILPIN |
| 19740 | 059 | JEFFERSON |
| 19740 | 093 | PARK |
| Fort Collins MSA |  |  |
| 22660 | 069 | LARIMER |
| Grand Junction MSA |  |  |
| 24300 | 077 | MESA |
| Greeley MSA |  |  |
| 24540 | 123 | WELD |
| Pueblo MSA |  |  |
| 39380 | 101 | PUEBLO |


| MSA/BOS <br> Code | County <br> Code | County Name |
| :---: | :---: | :--- |
| Eastern \& Southern Colorado BOS Area |  |  |
| 00001 | 003 | ALAMOSA |
| 00001 | 009 | BACA |
| 00001 | 011 | BENT |
| 00001 | 017 | CHEYENNE |
| 00001 | 021 | CONEJOS |
| 00001 | 023 | COSTILLA |
| 00001 | 025 | CROWLEY |
| 00001 | 027 | CUSTER |
| 00001 | 055 | HUERFANO |
| 00001 | 061 | KIOWA |
| 00001 | 063 | KIT CARSON |
| 00001 | 071 | LAS ANIMAS |
| 00001 | 073 | LINCOLN |
| 00001 | 075 | LOGAN |
| 00001 | 079 | MINERAL |
| 00001 | 087 | MORGAN |
| 00001 | 089 | OTERO |
| 00001 | 095 | PHILLIPS |
| 00001 | 099 | PROWERS |
| 00001 | 105 | RIO GRANDE |
| 00001 | 109 | SAGUACHE |
| 00001 | 115 | SEDGWICK |
| 00001 | 121 | WASHINGTON |
| 00001 | 125 | YUMA |
|  |  |  |


| MSA/BOS <br> Code | County <br> Code | County Name |
| :--- | :---: | :---: |
| Southwest Colorado BOS Area |  |  |


| 00002 | 007 | ARCHULETA |
| :--- | :--- | :--- |
| 00002 | 015 | CHAFFEE |
| 00002 | 029 | DELTA |
| 00002 | 033 | DOLORES |
| 00002 | 043 | FREMONT |
| 00002 | 051 | GUNNISON |
| 00002 | 053 | HINSDALE |
| 00002 | 067 | LA PLATA |
| 00002 | 083 | MONTEZUMA |
| 00002 | 085 | MONTROSE |
| 00002 | 091 | OURAY |
| 00002 | 111 | SAN JUAN |
| 00002 | 113 | SAN MIGUEL |

Northwest Colorado BOS Area

| 00003 | 037 | EAGLE |
| :--- | :--- | :--- |
| 00003 | 045 | GARFIELD |
| 00003 | 049 | GRAND |
| 00003 | 057 | JACKSON |
| 00003 | 065 | LAKE |
| 00003 | 091 | MOFFAT |
| 00003 | 097 | PITKIN |
| 00003 | 103 | RIO BLANCO |
| 00003 | 107 | ROUTT |
| 00003 | 117 | SUMMIT |

## Visit LMI Gateway for complete 2020 OEWS estimates

colmigateway.com

## Excel Download

To download an Excel file, visit our Products and Resources page and select "OEWS Employment and Wage Estimates, released April 2021."


## Data Visualization

To interact with our data visualization tool, visit Occupational Employment and Wage Statistics (OEWS) at colmigateway.com/oeswage.

To navigate to this tool while on LMI Gateway, go to Menu > [Data Trends] Employment and Wage Data > [Occupation Data] Occupational Employment and Wage Statistics (OEWS).



[^0]:    *Historical wage data adjusted using national Employment Cost Index (ECI) factors.

[^1]:    *Wages adjusted using national Employment Cost Index (ECI) factors.

[^2]:    *Occupations with estimated employment of 500 or more.

[^3]:    *Percent relative standard error of the average wage

[^4]:    *Percent relative standard error of the average wage

[^5]:    *Percent relative standard error of the average wage

[^6]:    *Percent relative standard error of the average wage

[^7]:    *Percent relative standard error of the average wage

[^8]:    *Percent relative standard error of the average wage

[^9]:    *Percent relative standard error of the average wage

[^10]:    *Percent relative standard error of the average wage

