

Oklahoma Employment Outlook 2014



Oklahoma Employment
Security Commission

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Oklahoma Employment Security Commission
Economic Research & Analysis Division

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About this publication

Long-term industry and occupational employment projections are developed on a two-year schedule funded by the U.S. Employment and Training Administration (ETA). State analysts have been provided with guidelines, training and technical support for producing these projections. Forecasts were produced using the Projections Suite developed by the Utah Department of Employment Security.

Industry employment projections

Nonagricultural wage and salary employment projections are developed using methodology and software provided by America's Labor Market Information System (ALMIS). Bureau of Labor Statistics (BLS) national employment time series and projections are used as indicators for the 2014 state projections. Oklahoma historical data is taken from the Quarterly Census of Employment and Wages (QCEW) and the Current Employment Statistics (CES) programs.

The primary methods of analysis for these projections were linear regression and shift-share analysis. Statewide data for some industries is projected at the three-digit level of the North American Industry Classification System (NAICS), while other data is forecast at the four-digit level.

Agriculture and non-covered employment data used in industry projections are taken from the American Community Survey and Current Employment Statistics (CES) program. Data for self-employed and unpaid family workers (SE & UFW, primary job) is produced from a projection

matrix system based on Oklahoma's OES (Occupational Employment Statistics) survey and BLS Current Population Survey. Base-year estimates of self-employed are larger than in previous projections because BLS estimates of self-employed now include people who are either primarily or secondarily self-employed.

The goods-producing industries include the following: **agriculture, mining, construction and manufacturing**. The service-providing industries are comprised of **transportation & warehousing, wholesale trade, retail trade, information, finance & insurance, real estate & rental & leasing, professional, scientific & technical services, management of companies & enterprises, administrative & support & waste management & remediation services, educational services, health care & social assistance, arts, entertainment & recreation, services, and government**.

Employment is rounded to the nearest ten. Percent changes are based on unrounded data.

Occupational employment projections

The occupational projections reflect the 2000 Standard Occupational Classification (SOC) system, which classifies more than 700 occupations. Current employment refers to the estimated annual employment by occupation for all industries based on 2004 data. Projected employment refers to the expected annual employment by occupation based on projections made for all detailed industries in Oklahoma. Average annual openings are job openings resulting from growth in an occupation and

replacement needs in that occupation.

Employment is rounded to the nearest ten. Percentage changes are based on un-rounded data and reflect the percent growth or decline in an occupation over the 10-year period. Education and training attainment refers to the minimum general education or training requirements for each occupation. These requirements may change based on the career ladder for each occupation.

Data limitations

Forecasting the future is not an exact science. Projections result from careful analysis of available data. However, they do not reflect what might happen under different conditions. International, national and local events can have significant impacts on Oklahoma's economy. Moreover, the projection model does not take into

account factors such as immigration, occupational supply, business relocation, emergence of new occupations, or industrial and scientific developments.

Please do not use these projections as your sole source of information.

INDUSTRY PROJECTIONS

Service-providing industries expected to drive state job growth for 2004-2014 period

- Oklahoma is expected to add close to 193,000 jobs between 2004 and 2014 across all industries. This translates into an increase of almost 12 percent over the period.
- Three broad industries are expected to account for more than two-thirds of the state job growth:
 - ◆ **Educational & health services**
 - ◆ **Professional & business services**
 - ◆ **Trade, transportation & utilities**
- Only two broad industries, **natural resources & mining** and **manufacturing**, will drop jobs during the projection period. These two groups, along with **construction**, make up the goods-producing sector of the economy.
- The service-providing industries will provide nearly 99 percent of all job growth between 2004 and 2014. **Natural resources & mining**, **construction**, and **manufacturing** will combine to contribute the remaining growth for the period.

TABLE I: Oklahoma employment projections by industry, 2004-2014

INDUSTRY	EMPLOYMENT		CHANGE		SHARE	
	2004	2014	Jobs	Pct.	2004	2014
TOTAL EMPLOYMENT	1,619,400	1,812,000	192,600	11.9%	100.0%	100.0%
SE & UFW, primary job	112,730	115,820	3,090	2.7%	7.0%	6.4%
Natural resources & mining	63,510	61,920	-1,590	-2.5%	3.9%	3.4%
Construction	62,700	67,110	4,400	7.0%	3.9%	3.7%
Manufacturing	142,290	141,740	-550	-0.4%	8.8%	7.8%
Trade, transportation & utilities	276,940	303,630	26,690	9.6%	17.1%	16.8%
Information	31,750	35,430	3,680	11.6%	2.0%	2.0%
Financial activities	84,720	93,050	8,330	9.8%	5.2%	5.1%
Professional & business services	162,470	204,840	42,370	26.1%	10.0%	11.3%
Educational & health services	327,280	387,860	60,570	18.5%	20.2%	21.4%
Leisure & hospitality	129,110	148,370	19,260	14.9%	8.0%	8.2%
Other services (except government)	75,490	85,450	9,950	13.2%	4.7%	4.7%
Government	150,420	166,810	16,390	10.9%	9.3%	9.2%

Oklahoma’s economy: a snapshot

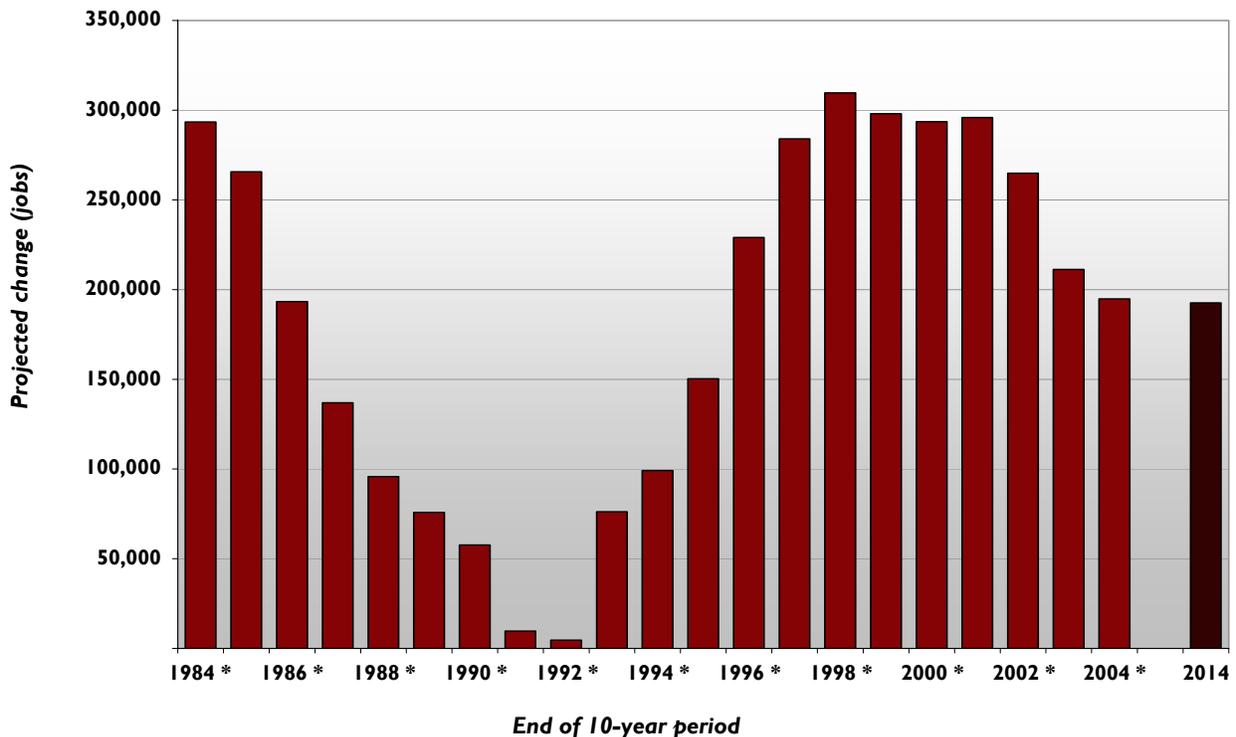
The Oklahoma economy has seen considerable change over the past few decades. After reporting strong growth throughout the 1970s, the state economy experienced a setback in the 1980s in the form of the oil bust. Oklahoma reported net job losses for 1986 through 1988 and again in 1991. The 1990s ushered in a recovery period, as Oklahoma’s economy began gaining back the jobs lost over the previous few years. By 1994, Oklahoma had reached the same employment level it had held before the losses of the 1980s, and state employment continued to climb, surpassing the 1.6 million mark in 2000. The recent recession that started in 2001 has restricted growth to a degree, but state employment began growing in 2003 and again reached an all-time high in 2004.

The economy is growing again, but it’s difficult to identify all of the factors that will impact the state

between 2004 and 2014. A few we already know. Oklahoma, like all other states and the United States as a whole, is changing from a goods-producing economy to a service-providing economy, and the types of jobs available will reflect this change. The aging baby boomer generation will require a larger and better staffed health care industry. Constantly improving technology will continue to provide employers with options to human workers.

Our forecast calls for Oklahoma to add nearly 200,000 jobs between 2004 and 2014, an increase of almost 12 percent. These gains outpace the change of the 1994-to-2004 time period, when the state added just over 160,000 jobs. It should be noted that this past 10-year period covered the economic recession that began in 2001.

CHART 1: 10-year change in Oklahoma nonfarm employment, 1984-2004 & 2014 forecast



* Historical data taken from Current Employment Statistics (CES) program

Overview

The three broad industries expected to account for most of the state’s job growth are **educational & health services, professional & business services, and trade, transportation & utilities**. These three groups will combine to provide more than two-thirds of all job growth between 2004 and 2014.

Educational & health services is expected to add more than 60,000 jobs during the projection period. The **health services** industry will produce twice as many jobs as **educational services**, with **ambulatory health care** (+17,760 jobs) leading the charge. The other three components of **health services (hospitals, nursing & residential care facilities, and social assistance)** are all expected to add more than 7,000 jobs each over the decade. This growth will result from the gradual aging of the population coupled with advances in new technologies that increase life expectancies.

Leisure & hospitality is expected to grow by over 19,000 jobs between 2004 and 2014. The **accommodation & food services** industry will provide more than four out of every five jobs gained during the projection period, driven almost entirely by food services & drinking places. **Amusement, gambling & recreational industries** will contribute much of the rest of the growth seen in **leisure & hospitality**. The addition and continued growth of tribal casinos and resorts is expected to be a driving force for this industry.

Employment in **government** is expected to grow by more than 16,000 jobs. Like **trade, transportation & utilities, government** will expand at a rate lower than the projected overall growth rate. **Local government, excluding education & hospitals** is expected to generate 14,670 new jobs during the period.

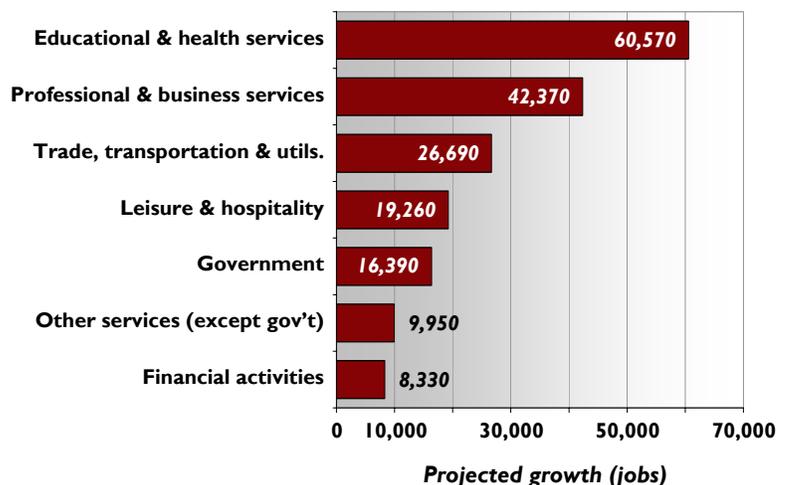
Federal government, however, will post only a small gain due to large losses in the **postal service** industry. Growth in **state government** and **local government** will be driven by a growing demand for community and protective services due to population growth and a reduction in these services by **federal government**.

Other services (except government) will add nearly 10,000 jobs during the forecast period, a gain of more than 13 percent. Over half of the growth will come from the **religious, grant-making, civic, professional & similar organizations** industry. The only industry losing jobs for the forecast period will be **private households**, which will shrink nearly 2.5 percent.

Financial activities is expected to expand by nearly 10 percent during the projection period. When combined, the **insurance carriers & related activities** and **real estate** industries will provide more than half of the jobs gained by **financial activities**.

Construction will continue to post growth during the projection period, gaining 4,400 jobs between 2004 and 2014. **Specialty trade contractors** is

CHART 2: Broad industries with most expected job growth, 2004-2014



the only industry expected to expand during the period. The demand for nonresidential structures appears to be the catalyst behind the projected growth. **Construction's** other two industries, **construction of buildings** and **heavy & civil engineering**, will lose jobs for the period.

Information is expected to almost match the overall growth rate of 11.9 percent with a gain of 3,680 jobs. **Telecommunications**, the dominant industry in **Information**, is expected to contribute more than 1,500 jobs. The **publishing** and **internet service/data processing** industries will also be big contributors to the growth.

Natural resources & mining is one of only two broad industries expected to lose jobs over the forecast period with a drop of more than 1,500 jobs, or 2.5 percent of its total employment. Employment losses are due to technology-driven productivity increases, industry consolidation,

stringent environmental regulations and international competition. The only industry to add jobs for the projection period will be **support activities for mining**; this industry will add 1,110 jobs between 2004 and 2014.

Manufacturing is the other broad industry expected to lose jobs. For the 2004-to-2014 period, **Manufacturing** will contract slightly, shedding 550 jobs. However, this small loss is not representative of the changes taking place within **manufacturing**. While a large number of jobs will be lost from **machinery manufacturing**, **petroleum product manufacturing** and **printing**, other industries, like **food manufacturing** and **transportation equipment manufacturing**, will post solid growth between 2004 and 2014. The overall outlook for **manufacturing** is continuing demand-driven growth coupled with productivity-led employment declines.

Industry forecasts

Growth industries

The industry expected to add the most jobs during the projection period is **administrative & support services**. This industry will add more than 28,000 jobs, growing by nearly one-third. The **administrative & support services industry** includes areas such as **employment services, business support services** and **services to buildings**.

Of the top 20 industries to add the most jobs, three are classified as health service industries: **ambulatory health care, hospitals** and **nursing & residential care facilities**. These industries

will combine to account for 32,520 jobs, more than one-sixth of the job gains expected between 2004 and 2014. When **social assistance**, the other industry classified under **health care & social assistance**, is included, these four industries make up more than 20 percent of the jobs gained for the projection period. Recreation-related growth will provide just under 10 percent of the total job growth for the period. The **food services & drinking places** and **amusement, gambling & recreation activities** industries will account for more than 18,000 jobs over the decade.

TABLE 2: Oklahoma's top 20 growth industries, 2004-2014 (industries with most projected growth)

INDUSTRY	EMPLOYMENT		CHANGE	
	2004	2014	Jobs	Percent
Administrative & support services	89,300	117,400	28,100	31.47%
Educational services	151,800	172,190	20,390	13.43%
Ambulatory health care services	56,130	73,890	17,760	31.65%
Food services & drinking places	105,160	120,470	15,320	14.57%
Local government, excluding education & hospitals	67,260	81,920	14,670	21.81%
Professional, scientific & technical services	57,740	70,600	12,860	22.28%
General merchandise stores	42,950	51,580	8,630	20.10%
Social assistance	22,510	30,160	7,650	33.98%
Hospitals	61,020	68,550	7,530	12.35%
Nursing & residential care facilities	35,830	43,060	7,230	20.19%
Religious, grantmaking, civic, professional & similar organizations	48,090	54,090	5,990	12.46%
Specialty trade contractors	38,770	43,620	4,850	12.52%
Amusement, gambling & recreation industries	11,030	13,780	2,750	24.95%
Insurance carriers & related activities	26,530	29,230	2,700	10.18%
Food manufacturing	19,440	22,100	2,660	13.67%
Motor vehicle & parts dealers	23,760	26,180	2,420	10.19%
Personal & laundry services	12,550	14,700	2,150	17.10%
Real Estate	11,320	13,380	2,060	18.20%
Building material and garden equipment & supplies dealers	13,740	15,780	2,040	14.87%
Miscellaneous store retailers	11,250	13,250	2,000	17.80%

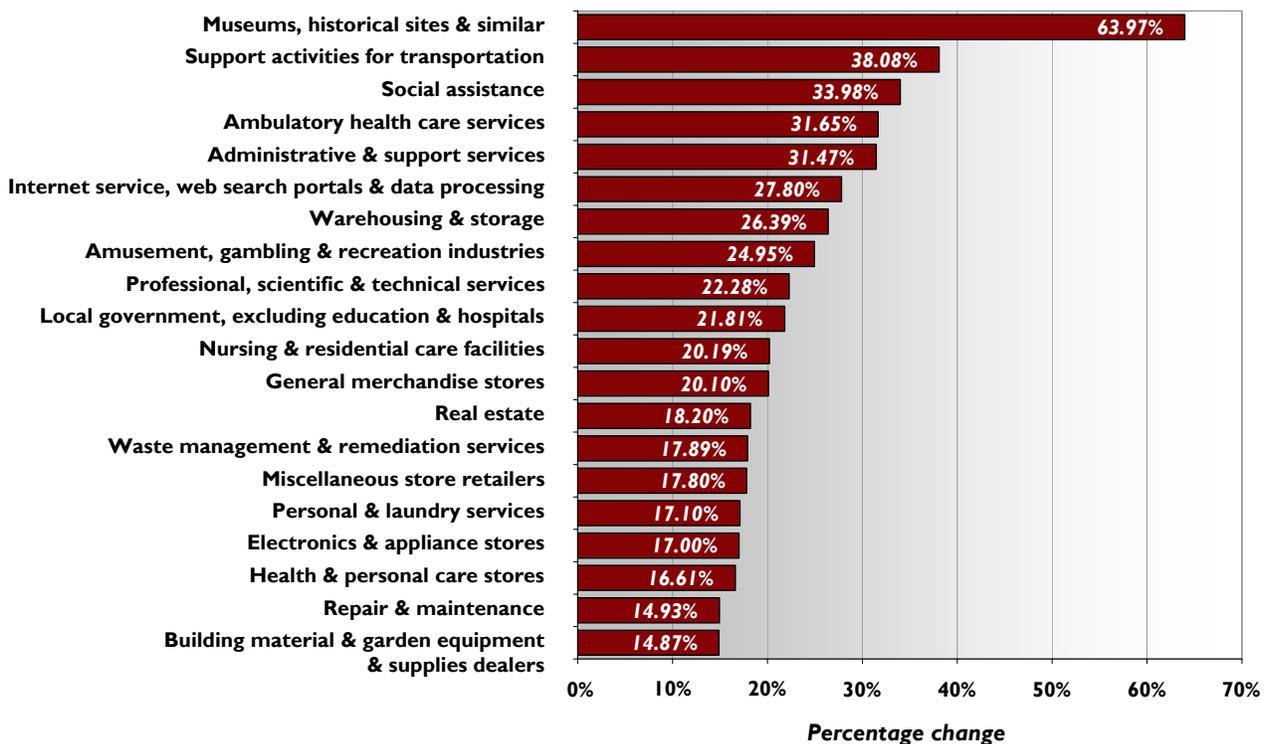
Educational services is expected to add over 20,000 jobs. **Local government, excluding education & hospitals** will grow by almost 15,000 jobs for the period. **Retail trade**, in the form of **general merchandise stores, motor vehicle & parts dealers, and miscellaneous stores**, will provide almost 10 percent of all growth.

Despite a projected drop in **construction** employment for the period, the **specialty trade contractors industry** is expected to do well, adding nearly 5,000 jobs. The other broad industry to drop jobs for the projection period, **manufacturing**, was also represented in the top 20 growth industries, as **food manufacturing** is expected to gain 2,660 jobs. The appearance of these two among the growth industries highlights the change happening under the surface in the **construction** and **manufacturing** broad industrial groups. This churning is the result of certain industries growing to meet demand, and others shrinking as demand wanes.

Rapid growth industries

When looking at these growth rates, it is important to remember that they fall into one of two general categories. The first is made up of industries with a small number of jobs. Any growth in this type of industry will appear significant. For example, in an industry with 100 jobs, a gain of 10 jobs would represent a growth rate of 10 percent. However, an industry with 100,000 jobs would have to gain 10,000 jobs simply to achieve the same growth rate. The other category is comprised of these larger industries. Because of the large number of jobs, growth rates will tend to be more “accurate” because the gain of a few jobs will affect the growth rate much less than in a small industry. The two industries with the highest growth rates, **museums & historical sites** and **transportation support**, fall into the small industry category. **Social assistance**, an industry that also appeared in the top 20 growth industries, will grow at the highest rate among the larger industries.

CHART 3: Oklahoma’s top 20 rapid growth industries, 2004-2014 (industries with fastest growth)



Two health care industries, **ambulatory health care** and **nursing & residential care**, made the list, as well as four industries classified under **retail trade**. All of the top 20 rapid growth industries for 2004 through 2014 belong to the service-providing industries division.

One interesting fact is that 12 of the 20 rapid growth industries also made the top 20 growth industries. Normally, these two lists would be almost completely different. This anomaly is the result of significant growth over the projection period in industries with large employment. Although this is unusual, it follows the projected U.S. growth patterns for the period.

Declining Industries

While many industries should add jobs between 2004 and 2014, there are those that will move in

the other direction. Many of these industries belong to the goods-producing side of employment. In fact, 13 of the top 20 declining industries are classified as goods producing.

Manufacturing industries make up half of the top 20 declining industries, as **machinery manufacturing** is expected to lead all industries with a projected loss of 1,360 jobs. Two of the three **construction** industries, **construction of buildings** and **heavy & civil engineering**, were included on the list. The other **construction** industry, **specialty trade contractors**, was included in the top 20 growth industries. **Oil & gas extraction**, an industry under **natural resources & mining**, is projected to lose just over 1,000 jobs, earning it second place on the list.

Postal service, an industry under **federal government**, is expected to drop 870 jobs during the forecast period.

TABLE 3: Oklahoma's top 20 declining industries, 2004-2014 (industries with most projected losses)

INDUSTRY	EMPLOYMENT		CHANGE	
	2004	2014	Jobs	Percent
Machinery manufacturing	22,520	21,150	-1,360	-6.05%
Oil & gas extraction	13,480	12,410	-1,070	-7.91%
Printing & related support activities	4,250	3,220	-1,020	-24.11%
Clothing & clothing accessories stores	10,850	9,970	-880	-8.08%
Postal service	8,410	7,540	-870	-10.33%
Petroleum & coal products manufacturing	2,080	1,270	-810	-39.00%
Apparel manufacturing	940	320	-620	-66.42%
Plastics & rubber products manufacturing	12,790	12,230	-550	-4.33%
Electrical equipment, appliance & component manufacturing	3,030	2,680	-350	-11.65%
Construction of buildings	13,220	12,890	-330	-2.48%
Gasoline stations	12,880	12,590	-290	-2.22%
Computer & electronic product manufacturing	4,930	4,650	-280	-5.72%
Textile product mills	700	440	-260	-37.59%
Food & beverage stores	23,340	23,100	-240	-1.03%
Utilities	10,660	10,520	-140	-1.32%
Pipeline transportation	1,690	1,560	-130	-7.69%
Nonmetallic mineral product manufacturing	8,150	8,030	-130	-1.56%
Heavy & civil engineering construction	10,720	10,590	-120	-1.14%
Paper manufacturing	3,330	3,260	-70	-2.19%
Textile mills	120	60	-60	-52.14%

OCCUPATIONAL PROJECTIONS

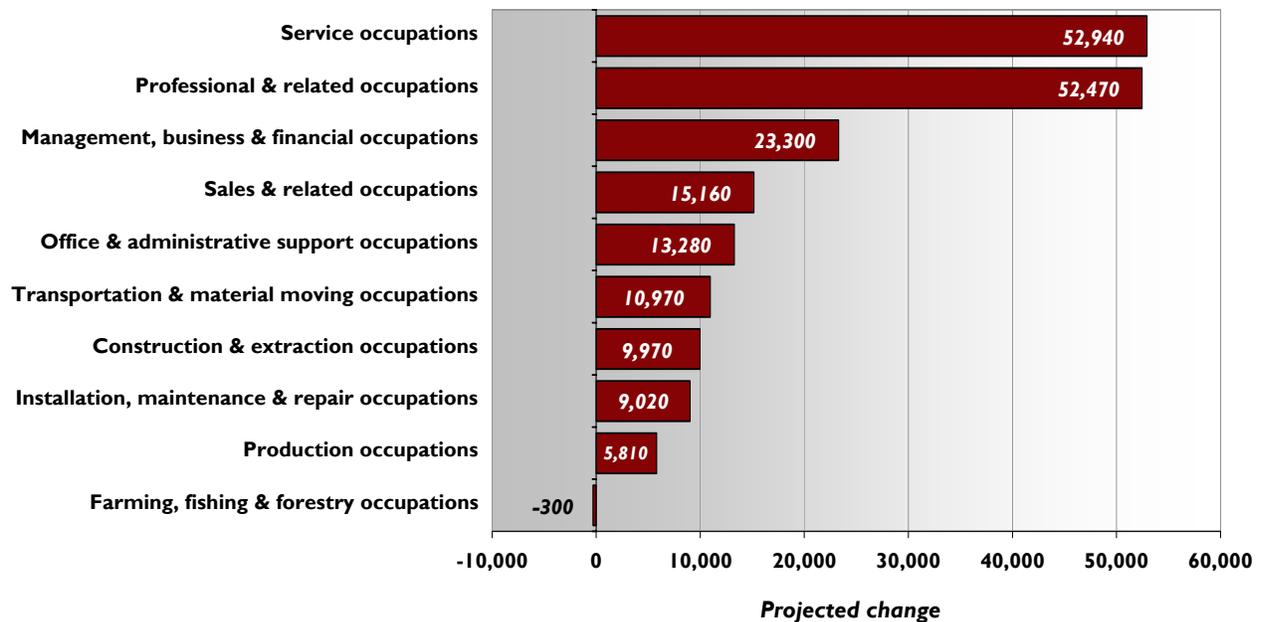
Professional & service occupations will lead growth through 2014

Oklahoma is expected to continue to grow during the projection period. Between 2004 and 2014, statewide occupational employment will grow by 192,600 jobs, or 11.9 percent. Although this is down from the 13.4 percent growth rate projected for the 2002-to-2012 period, it will still provide nearly 20,000 new jobs each year. Two major occupational divisions, **professional & related occupations** and **service occupations**, are expected to provide the largest number of jobs, the largest percent change and the most openings per year. These two will join **management, business**

& financial occupations as the only divisions to increase employment share over the projection period. All other occupational divisions will see their share of total employment stay the same or drop between 2004 and 2014.

Of the 10 major occupational divisions, only **farming, fishing & forestry occupations** is projected to lose jobs during the forecast period. Estimates show this division dropping 300 jobs over the 10-year span, barely more than 1 percent of its total employment.

CHART 4: Oklahoma’s occupational employment change, 2004-2014



Occupational forecasts

Two major occupational divisions, **professional & related occupations** and **service occupations**, are expected to provide more than half of all jobs gained over the forecast period. These two divisions will also be the source of more than two out of every five jobs added each year between 2004 and 2014. If you include **management, business & financial occupations** with these two major divisions, they account for more than two-thirds of all projected jobs gained for the period.

Service Occupations

The **service occupations** group will add more than 52,000 jobs during the projection period, the most of any major occupational division. The division's growth rate of 17.66 percent is better than the rate for all occupations combined.

Food service occupations are projected to be among the leading growth occupations in this group. **Cooks-fast food, waiters & waitresses**, and **combined food preparation & serving**

workers, including fast food are listed among both the occupations expected to have the largest employment and the occupations predicted to post the most growth for the forecast period.

Professional & Related Occupations

Following right on the heels of **service occupations** will be **professional & related occupations**. Although this division is expected to post an almost identical job gain and growth rate as **service occupations**, it will average more than 2,800 fewer jobs per year.

This group's growth will be provided primarily through health care occupations. Entries for this occupational group, such as **registered nurses** and **licensed practical & licensed vocational nurses**, are included in the top 30 occupations in terms of employment and most open positions. Health care occupations are also among the fastest growing occupations for the 2004-to-2014 period.

TABLE 4: Oklahoma employment projections by occupation, 2004-2014

OCCUPATION	EMPLOYMENT		DISTRIBUTION		CHANGE		AVERAGE ANNUAL OPENINGS
	2004	2014	2004	2014	Jobs	Pct.	
TOTAL, All Occupations	1,619,400	1,812,000	100.00%	100.00%	192,600	11.89%	59,220
Management, business & financial	163,640	186,940	10.11%	10.32%	23,300	14.23%	5,340
Professional & related	299,590	352,060	18.50%	19.43%	52,470	17.51%	11,040
Service	299,770	352,710	18.51%	19.46%	52,940	17.66%	13,870
Sales & related	165,190	180,350	10.20%	9.95%	15,160	9.18%	7,090
Office & administrative support	274,380	287,650	16.94%	15.87%	13,280	4.84%	8,340
Farming, fishing & forestry	26,850	26,550	1.66%	1.47%	-300	-1.12%	770
Construction & extraction	84,280	94,240	5.20%	5.20%	9,970	11.82%	2,740
Installation, maintenance & repair	75,110	84,120	4.64%	4.64%	9,020	12.00%	2,640
Production	122,890	128,700	7.59%	7.10%	5,810	4.72%	3,860
Transportation & material moving	107,720	118,690	6.65%	6.55%	10,970	10.19%	3,540

Management, business & financial occupations

Although **management, business & financial occupations** is expected to add the third highest amount of job openings for the 2004-to-2014 period, its contribution will be less than half of either **service occupations** or **professional & related occupations**. Like the previous two major divisions, **management, business & financial occupations** will grow at a rate above the average rate for all occupational divisions.

Accountants & auditors and **general & operations managers**, two **management, business & financial occupations**, will be among the largest employers and providers of the most openings between 2004 and 2014.

Job openings: growth vs. replacement

There are two basic types of job openings. Some openings are created when a business opens or

grows. These are referred to as growth openings. Other job openings, known as replacement openings, are created when workers leave their occupations. Reasons may include retirement, a change in occupations, and family care responsibilities. Changing employers while staying in the same occupation does not constitute a replacement opening.

Whether a business has a growth opening or a replacement opening, new workers are needed. By looking at the average number of annual job openings, one can get a good indication of how many new workers will be needed each year to fill these openings. For the 2004-to-2014 time span, just under 35 percent of all job openings will be growth openings, with replacement openings making up the rest. The **farming, fishing & forestry** major occupational division is expected to produce the fewest growth openings and will have the lowest percentage of growth openings compared to all job openings. The **service occupations** division is expected to contribute the largest number of both growth openings and replacement openings during the period.

Where is the most demand?

From 2004 to 2014, the 30 occupations with the most projected job openings per year, also known as **demand occupations**, will represent almost 40 percent of total employment and provide an average of more than two out of every five job openings each year. **Retail salespersons** and **cashiers**, two **sales & related occupations**, will provide the most job openings per year between 2004 and 2014, averaging 2,500 jobs per year and

2,230 jobs per year, respectively. Although **sales & related occupations** claimed the top two spots on the list, **office & administrative support occupations** and **service occupations** each contributed eight of the top 30 demand occupations. **Professional & related occupations** will provide five of the top 30 demand occupations for the 2004-to-2014 period.

TABLE 5: Oklahoma's top 30 demand occupations, 2004-2014 (occupations with largest number of openings per year)

OCCUPATION	EMPLOYMENT			Average Annual Openings
	2004	2014	Growth Rate	
Retail salespersons	46,810	54,830	17.12%	2,500
Cashiers	42,850	44,350	3.48%	2,230
Waiters & waitresses	25,200	28,900	14.68%	1,670
Combined food preparation & serving workers, including fast food	27,130	31,220	15.07%	1,590
Registered nurses	24,480	30,800	25.80%	1,140
Office clerks, general	37,010	39,390	6.41%	1,060
Customer service representatives	26,440	32,880	24.36%	1,040
Laborers & freight, stock & material movers, hand	24,060	26,010	8.12%	980
General & operations managers	27,010	31,220	15.59%	930
Postsecondary teachers	18,910	23,710	25.37%	910
Janitors & cleaners, except maids & housekeeping cleaners	24,950	28,950	16.00%	870
Truck drivers, heavy & tractor-trailer	24,660	27,750	12.55%	710
Nursing aides, orderlies & attendants	21,740	25,410	16.87%	650
Team assemblers	16,580	18,480	11.50%	620
Stock clerks & order fillers	16,740	15,680	-6.32%	620
Elementary school teachers, except special education	17,060	19,160	12.29%	590
Cooks, fast food	12,410	14,240	14.76%	570
Receptionists & information clerks	13,080	15,340	17.26%	550
Executive secretaries & administrative assistants	18,870	20,590	9.12%	530
Maintenance & repair workers, general	15,110	17,560	16.16%	530
Personal & home care aides	9,280	13,020	40.35%	520
Bookkeeping, accounting & auditing clerks	24,360	25,030	2.73%	520
Accountants & auditors	14,890	17,130	15.03%	510
Tellers	8,560	9,270	8.34%	490
Child care workers	10,330	12,140	17.46%	460
Licensed practical & licensed vocational nurses	13,560	15,240	12.45%	460
Secretaries, except legal, medical & executive	23,890	22,850	-4.35%	460
Home health aides	7,480	11,020	47.29%	450
Farmworkers & laborers, crop, nursery & greenhouse	15,770	15,360	-2.62%	450
First-line supervisors/managers of office & administrative	15,570	16,570	6.40%	430

Where is the most growth?

Oklahoma employment is expected to grow by almost 12 percent over the 2004-to-2014 period. The top 30 occupations predicted to grow the most during the period, or growth occupations, all more than double this growth rate. **Professional & related occupations** is expected to provide 20 of the top 30 growth occupations between 2004 and

2014. **Service occupations** will make up eight of the remaining 10 demand occupations, with **management, business & financial occupations** contributing the final two. Nearly one-third of the top 30 growth occupations are related to the health care industry and one-sixth are computer-related.

TABLE 6: Oklahoma's top 30 growth occupations, 2004-2014 (occupations with largest percent growth)

OCCUPATION	EMPLOYMENT			Average Annual Openings
	2004	2014	Growth Rate	
Network systems & data communications analysts	1,240	1,880	52.14%	80
Home health aides	7,480	11,020	47.29%	450
Environmental engineers	360	510	44.51%	20
Medical assistants	5,800	8,300	43.21%	360
Dental hygienists	1,060	1,500	41.56%	50
Veterinary technologists & technicians	530	740	40.99%	30
Personal & home care aides	9,280	13,020	40.35%	520
Physician assistants	930	1,300	39.96%	50
Dental assistants	2,500	3,460	38.61%	170
Computer software engineers, applications	2,890	4,000	38.37%	140
Physical therapist assistants	1,080	1,490	37.69%	60
Computer software engineers, systems software	1,770	2,430	37.30%	80
Forensic science technicians	90	120	36.78%	10
Database administrators	1,100	1,500	35.79%	50
Gaming dealers	510	700	35.48%	30
Network & computer systems administrators	2,820	3,820	35.23%	130
Environmental engineering technicians	110	150	35.09%	10
Museum technicians & conservators	60	90	34.92%	0
Financial examiners	330	450	34.83%	20
Curators	80	110	32.91%	0
Preschool teachers, except special education	7,020	9,320	32.83%	310
Athletic trainers	280	370	31.91%	20
Gaming managers	70	90	31.43%	0
Medical scientists, except epidemiologists	1,250	1,640	30.62%	60
Veterinarians	800	1,050	30.60%	40
Gaming supervisors	300	390	30.54%	20
Nonfarm animal caretakers	1,760	2,300	30.53%	100
Pharmacy technicians	3,640	4,750	30.21%	160
Social & human service assistants	2,430	3,140	29.39%	110
Biomedical engineers	120	160	29.27%	10

Where is the biggest decline?

Unfortunately, not all occupations will grow over the projection period. Occupations that lose jobs over time are called declining occupations. The declining occupation with the largest projected loss is **file clerks**, which will drop more than 1,000 job openings over the period. More than half of the top 30 declining occupations belong to the

office & administrative support occupational division. Six more declining occupations are classified as production occupations. These projections reflect a business world in which technology is helping to reduce the office workload and an economy that is becoming service-based rather than goods-based.

TABLE 7: Oklahoma's top 30 declining occupations, 2004-2014 (occupations with largest losses)

OCCUPATION	EMPLOYMENT		CHANGE	
	2004	2014	Number	Percent
File clerks	2,930	1,800	-1,140	-38.79%
Stock clerks & order fillers	16,740	15,680	-1,060	-6.32%
Secretaries, except legal, medical & executive	23,890	22,850	-1,040	-4.35%
Order clerks	2,420	1,790	-630	-25.94%
Computer operators	1,570	1,060	-510	-32.61%
Mail clerks & mail machine operators, except postal service	1,270	780	-490	-38.88%
Door-to-door sales workers, news & street vendors & related	3,390	2,960	-440	-12.82%
Farmworkers & laborers, crop, nursery & greenhouse	15,770	15,360	-410	-2.62%
Postal service mail carriers	4,110	3,700	-410	-10.07%
Sewing machine operators	1,300	930	-370	-28.66%
Cutting, punching & press machine setters, operators & tenders, metal & plastic	3,000	2,660	-340	-11.35%
Meter readers, utilities	810	480	-330	-40.57%
Information & record clerks, all other	2,920	2,600	-310	-10.77%
Molders, shapers & casters, except metal & plastic	4,340	4,040	-300	-6.83%
Switchboard operators, including answering service	2,650	2,390	-270	-9.98%
Pump operators, except wellhead pumpers	1,010	750	-250	-25.15%
Parts salespersons	3,330	3,090	-240	-7.18%
Word processors & typists	1,150	910	-230	-20.33%
Travel agents	610	400	-210	-34.75%
Postal service mail sorters, processors & processing machine operators	1,990	1,790	-200	-10.11%
Credit authorizers, checkers & clerks	440	250	-180	-41.74%
Photographic processing machine operators	750	560	-180	-24.53%
Wellhead pumpers	890	710	-180	-20.38%
Office machine operators, except computer	710	540	-170	-23.52%
Machine feeders & offbearers	1,040	890	-150	-14.11%
Couriers & messengers	1,240	1,100	-140	-11.22%
Data entry keyers	3,080	2,970	-100	-3.35%
Petroleum pump system operators, refinery operators & gaugers	1,310	1,210	-100	-7.84%
Extruding & drawing machine setters, operators & tenders	680	580	-100	-14.91%
Computer programmers	3,250	3,170	-90	-2.64%

Education/training requirements

The education and training requirements for job openings can be divided into 11 categories. These categories represent the minimum education and/or training required to perform the duties of an occupation. These categories can be classified as postsecondary awards or work-related training.

Postsecondary awards

1. **First professional degree.** Completion usually requires at least three years of full-time academic study beyond a bachelor’s degree.
2. **Doctoral degree.** Completion usually requires at least three years of full-time academic study beyond a bachelor’s degree.
3. **Master’s degree.** Completion usually requires one or two years of full-time academic study beyond a bachelor’s degree.
4. **Bachelor’s or higher degree, plus work experience.** Experience is needed in a related non-management position requiring a bachelor’s or higher degree.
5. **Bachelor’s degree.** Completion generally requires at least four years, but not more than five years, of full-time academic study.
6. **Associate degree.** Completion of the degree usually requires at least two years of full-time academic study.

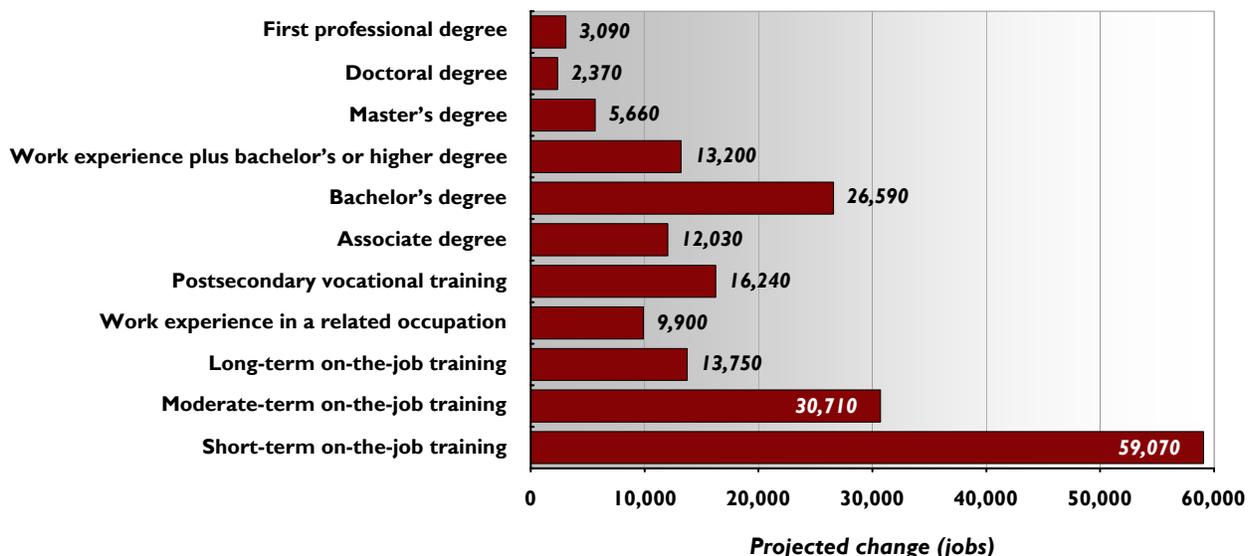
7. **Postsecondary vocational award.** Completion of the program leads to a certificate or other award but not a degree.

Work-related training

8. **Work experience in a related occupation.** Experience in a related occupation is required for this category.
9. **Long-term on-the-job training.** These occupations require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to be fully qualified.
10. **Moderate-term on-the-job training.** Skills needed to be fully qualified can be acquired during one to 12 months of combined on-the-job experience and informal training.
11. **Short-term on-the-job training.** Skills needed to be fully qualified can be acquired during a short demonstration of job duties or during one month or less of on-the-job experience or instruction.

For more information about education and training categories, see Occupational Projections and Training Data at the Bureau of Labor Statistics website (www.bls.gov/emp/optd/optd001.pdf).

CHART 5: Oklahoma’s occupational employment change by education/training, 2004-2014



Projections by education/training

In 2004, more than seven out of every 10 job openings did not require postsecondary education. These openings required only work experience in a related field or on-the-job training. By 2014, the number is expected to fall just below the 70 percent mark. All activities necessary to do the jobs that require on-the-job training can be learned while working in the occupation.

For both 2004 and 2014, only about 30 percent of the job openings require some level of postsecondary education or training to help people compete in the labor market.

TABLE 8: Oklahoma employment projections by education/training, 2004-2014

EDUCATION/TRAINING CATEGORY	EMPLOYMENT		DISTRIBUTION		CHANGE		AVERAGE ANNUAL OPENINGS
	2004	2014	2004	2014	Jobs	Pct.	
TOTAL, all occupations	1,619,400	1,812,000	100.00%	100.00%	192,600	11.89%	58,180
First professional degree	21,570	24,660	1.33%	1.36%	3,090	14.32%	470
Doctoral degree	9,820	12,190	0.61%	0.67%	2,370	24.16%	140
Master's degree	29,490	35,150	1.82%	1.94%	5,660	19.21%	800
Work experience plus bachelor's or higher degree	87,260	100,460	5.39%	5.54%	13,200	15.12%	2,830
Bachelor's degree	174,420	201,010	10.77%	11.09%	26,590	15.24%	5,930
Associate degree	55,750	67,790	3.44%	3.74%	12,030	21.58%	2,280
Postsecondary vocational training	106,480	122,710	6.58%	6.77%	16,240	15.25%	3,720
Work experience in a related occupation	113,060	122,960	6.98%	6.79%	9,900	8.76%	3,400
Long-term on-the-job training	110,350	124,100	6.81%	6.85%	13,750	12.46%	3,970
Moderate-term on-the-job training	344,240	374,950	21.26%	20.69%	30,710	8.92%	10,680
Short-term on-the-job training	566,960	626,030	35.01%	34.55%	59,070	10.42%	23,970

Notes: *Glossary*

Industry projections

Industry title. Detailed title for each industry and industry subdivision.

Employment, 2004. Estimated total number of jobs employed in that industry or industry subdivision.

Employment, 2014. Projected total number of jobs employed in that industry or industry subdivision.

Employment change, jobs. Total number of jobs projected to be added or lost during the projection period.

Employment change, percent. Projected percentage change in employment taking place over the projection period. Percent change is based on the change from the starting amount.

Occupational projections

SOC (Standard Occupational Classification) code. The SOC system is used by federal agencies to classify workers into one of more than 820 occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education or experience.

Occupational title. The title by which an occupation is known in the majority of establishments in which it is found.

Average annual openings. The sum of average annual new jobs and average annual replacements.

Average hourly wage. The sum of wages earned by all employees in a given occupation divided by the total number of employees in that occupation.

Education attainment. The minimum educational level generally required by employers when hiring for a particular occupation.

Notes: Educational attainment

In the following occupational projection tables, educational attainment is given a value from 1 to 11. Each value represents a different minimum education/training requirement for an occupation. These values can be divided into two groups: postsecondary awards and work-related training.

Postsecondary awards

1. **First professional degree.** Completion of the degree usually requires at least three years of full-time academic study beyond a bachelor's degree.
2. **Doctoral degree.** Completion of a Ph.D. or other doctoral degree usually requires at least three years of full-time academic study beyond a bachelor's degree.
3. **Master's degree.** Completion of the degree usually requires one or two years of full-time academic study beyond a bachelor's degree.
4. **Bachelor's or higher degree, plus work experience.** Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.
5. **Bachelor's degree.** Completion of the degree generally requires at least four years, but not more than five years, of full-time academic study.
6. **Associate degree.** Completion of the degree usually requires at least two years of full-time academic study.
7. **Postsecondary vocational award.** Some programs last only a few weeks, while others may last more than a year. Programs lead to a certificate or other award but not a degree.

Work-related training

8. **Work experience in a related occupation.** Many occupations that require work experience are first-line supervisors/managers of service, sales & related, production, or other occupations, or are management occupations.
9. **Long-term on-the-job training.** More than 12 months of on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to five years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations - insurance sales and securities sales, for example - trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training generally are considered to be employed in the occupation. Also included in this category is the development of a natural ability - such as that possessed by musicians, athletes, actors and other entertainers - that must be cultivated over several years, frequently in a non-work setting.
10. **Moderate-term on-the-job training.** Skills needed to be fully qualified can be acquired during one to 12 months of combined on-the-job experience and informal training.
11. **Short-term on-the-job training.** Skills needed to be fully qualified can be acquired during a short demonstration of job duties or during one month or less of on-the-job experience or instruction.

Notes: *Technical notes*

- The data contained within this publication represents forecasts of future conditions rather than guaranteed conditions. Any decisions made using this data should be based on the user's own analyses and conclusions.
- Data for occupations estimated to employ less than 50 people in 2004 have not been included.
- Both employment estimates and number of openings have been rounded to the nearest 10.
- Occupational category totals may not calculate exactly as a result of rounding and suppression of data for occupations employing less than 50 people in 2004.
- The data source for the wage information used in this publication is **2005 Oklahoma Occupational Employment and Wage Estimates**, available on the Bureau of Labor Statistics website (http://stats.bls.gov/oes/current/oes_ok.htm). Occupations noted in the data tables with * meet one of the following conditions.
 - Workers who generally work less than the usual 2,080 hours per year
 - Workers who do not have sufficient data
 - Workers who have no average hourly wage reflected.
- Examples of occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, pilots and flight attendants, and teachers.
- Bolded occupations in the **Employment projections by occupation, 2004-2014 table** on page 34 are the occupational totals and subtotals.
- The left side four letters of the Descriptor column in the **Employment projections by occupation, 2004-2014 table** are the quartile rankings based on employment size. The letters on the right side are quartile rankings based on average hourly wage. The occupations in the top and bottom quartiles receive an 'A' and a 'D', while the occupations in the second and third quartiles have a 'C' and a 'D'. The four letters in the middle are the rankings based on growth rate. Declining occupations are labeled with a 'D'. Occupations growing slower than one half of the standard deviation below the mean are ranked 'C', while those growing faster than one half of the standard deviation above mean receive an 'A'. Those that fall in the middle have a 'B' grade (see the table below).

	Employment quartile ranking	Growth rate				Wage quartile ranking
		Negative $X \leq 0$	Slow $0 < X \leq \text{mean} - \frac{1}{2}\text{stdev}$	Moderate $\text{Mean} - \frac{1}{2}\text{stdev} < X \leq \text{mean} + \frac{1}{2}\text{stdev}$	Fast $X > \text{mean} + \frac{1}{2}\text{stdev}$	
Small	$X \leq 25$	DDD	DCD	DBD	DAD	$X \leq 25$
Medium	$25 < X \leq 50$	CDC	CCC	CBC	CAC	$25 < X \leq 50$
Large	$50 < X \leq 75$	BDB	BCB	BBB	BAB	$50 < X \leq 75$
Very large	$X > 75$	ADA	ACA	ABA	AAA	$X > 75$

- Average annual openings include openings due to growth as well as openings due to replacement needs. Average annual openings are not reduced by negative growth. An occupation may experience negative growth in some industries, which will affect the employment level for that

occupation in the future. However, the positive growth experienced in other industries will create job openings. Therefore, in a particular occupation, average annual openings are equal to the openings due to growth plus the openings due to replacement unless the growth is negative; in this case, Average annual openings is equal to the openings due to replacements only. As a result, average annual openings for a group of occupations may be greater than the sum of openings due to growth and replacements by the amount of negative growth in the individual occupations within the group.

10. Limitations of the data include the following.

- The data are intended to approximate long-term trends in the labor market and not predict future economic occurrences.
- Occupational openings for a particular year may differ substantially from those shown in the report if the economy is in a recovery or a recession period.
- Average annual openings reflect employment demand as a function of growth and replacement, but do not address turnover or geographic mobility.

Please direct questions regarding the methodology to:

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Notes: Alphabetical index of occupations

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Accountants & auditors	13-2011	Bailiffs	33-3011
Actors	27-2011	Bakers	51-3011
Actuaries	15-2011	Barbers	39-5011
Administrative law judges, adjudicators & hearing officers	23-1021	Bartenders	35-3011
Administrative services managers	11-3011	Bicycle repairers	49-3091
Adult literacy, remedial education & GED teachers & instructors	25-3011	Bill & account collectors	43-3011
Advertising & promotions managers	11-2011	Billing & posting clerks & machine operators	43-3021
Advertising sales agents	41-3011	Bindery workers	51-5011
Aerospace engineering & operations technicians	17-3021	Biochemists & biophysicists	19-1021
Aerospace engineers	17-2011	Biological scientists, all other	19-1029
Agents & business managers of artists, performers, & athletes	13-1011	Biological technicians	19-4021
Agricultural & food science technicians	19-4011	Biomedical engineers	17-2031
Agricultural engineers	17-2021	Boilermakers	47-2011
Agricultural equipment operators	45-2091	Bookbinders	51-5012
Agricultural inspectors	45-2011	Bookkeeping, accounting & auditing clerks	43-3031
Agricultural workers, all other	45-2099	Brickmasons & blockmasons	47-2021
Air traffic controllers	53-2021	Bridge & lock tenders	53-6011
Aircraft cargo handling supervisors	53-1011	Broadcast news analysts	27-3021
Aircraft mechanics & service technicians	49-3011	Broadcast technicians	27-4012
Aircraft structure, surfaces, rigging & systems assembler	51-2011	Brokerage clerks	43-4011
Airfield operations specialists	53-2022	Budget analysts	13-2031
Airline pilots, copilots & flight engineers	53-2011	Building cleaning workers, all other	37-2019
Ambulance drivers & attendants, except emergency medical technicians	53-3011	Bus & truck mechanics & diesel engine specialists	49-3031
Amusement & recreation attendants	39-3091	Bus drivers, school	53-3022
Animal breeders	45-2021	Bus drivers, transit & intercity	53-3021
Animal control workers	33-9011	Business operations specialists, all other	13-1199
Animal scientists	19-1011	Butchers & meat cutters	51-3021
Animal trainers	39-2011	Cabinetmakers & bench carpenters	51-7011
Anthropologists & archeologists	19-3091	Camera & photographic equipment repairers	49-9061
Appraisers & assessors of real estate	13-2021	Camera operators, television, video & motion picture	27-4031
Arbitrators, mediators & conciliators	23-1022	Captains, mates & pilots of water vessels	53-5021
Architects, except landscape & naval	17-1011	Cardiovascular technologists & technicians	29-2031
Architectural & civil drafters	17-3011	Cargo & freight agents	43-5011
Archivists	25-4011	Carpenters	47-2031
Art directors	27-1011	Carpet installers	47-2041
Artists & related workers, all other	27-1019	Cartographers & photogrammetrists	17-1021
Assemblers & fabricators, all other	51-2099	Cashiers	41-2011
Athletes & sports competitors	27-2021	Cement masons & concrete finishers	47-2051
Athletic trainers	29-9091	Cementing & gluing machine operators & tenders	51-9191
Atmospheric & space scientists	19-2021	Chefs & head cooks	35-1011
Audio & video equipment technicians	27-4011	Chemical engineers	17-2041
Audiologists	29-1121	Chemical equipment operators & tenders	51-9011
Audio-visual collections specialists	25-9011	Chemical plant & system operators	51-8091
Automotive body & related repairers	49-3021	Chemical technicians	19-4031
Automotive glass installers & repairers	49-3022	Chemists	19-2031
Automotive service technicians & mechanics	49-3023	Chief executives	11-1011
Avionics technicians	49-2091	Child care workers	39-9011
Baggage porters & bellhops	39-6011	Child, family & school social workers	21-1021
		Chiropractors	29-1011
		Choreographers	27-2032
		Civil engineering technicians	17-3022
		Civil engineers	17-2051
		Claims adjusters, examiners & investigators	13-1031

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Cleaners of vehicles & equipment	53-7061	Counselors, all other	21-1019
Cleaning, washing & metal pickling equipment operators & tenders	51-9192	Counter & rental clerks	41-2021
Clergy	21-2011	Counter attendants, cafeteria, food concession & coffee shop	35-3022
Clinical, counseling & school psychologists	19-3031	Couriers & messengers	43-5021
Coaches & scouts	27-2022	Court reporters	23-2091
Coating, painting & spraying machine setters, operators & tenders	51-9121	Court, municipal & license clerks	43-4031
Coil winders, tapers & finishers	51-2021	Craft artists	27-1012
Coin, vending & amusement machine servicers & repairers	49-9091	Crane & tower operators	53-7021
Combined food preparation & serving workers, including fast food	35-3021	Credit analysts	13-2041
Commercial & industrial designers	27-1021	Credit authorizers, checkers & clerks	43-4041
Commercial divers	49-9092	Crossing guards	33-9091
Commercial pilots	53-2012	Crushing, grinding & polishing machine setters, operators & tenders	51-9021
Communications equipment operators, all other	43-2099	Curators	25-4012
Community & social service specialists, all other	21-1099	Customer service representatives	43-4051
Compensation & benefits managers	11-3041	Cutters & trimmers, hand	51-9031
Compensation, benefits & job analysis specialists	13-1072	Cutting & slicing machine setters, operators & tenders	51-9032
Compliance officers, except agriculture, construction, health & safety, & transportation	13-1041	Cutting, punching & press machine setters, operators & tenders	51-4031
Computer & information scientists, research	15-1011	Dancers	27-2031
Computer & information systems managers	11-3021	Data entry keyers	43-9021
Computer hardware engineers	17-2061	Database administrators	15-1061
Computer operators	43-9011	Demonstrators & product promoters	41-9011
Computer programmers	15-1021	Dental assistants	31-9091
Computer software engineers, applications	15-1031	Dental hygienists	29-2021
Computer software engineers, systems software	15-1032	Dental laboratory technicians	51-9081
Computer specialists, all other	15-1099	Dentists, all other specialists	29-1029
Computer support specialists	15-1041	Dentists, general	29-1021
Computer systems analysts	15-1051	Derrick operators, oil & gas	47-5011
Computer, automated teller & office machine repairers	49-2011	Designers, all other	27-1029
Computer-controlled machine tool operators, metal & plastic	51-4011	Desktop publishers	43-9031
Concierges	39-6012	Detectives & criminal investigators	33-3021
Conservation scientists	19-1031	Diagnostic medical sonographers	29-2032
Construction & building inspectors	47-4011	Dietetic technicians	29-2051
Construction & related workers, all other	47-4099	Dietitians & nutritionists	29-1031
Construction laborers	47-2061	Dining room & cafeteria attendants & bartender helpers	35-9011
Construction managers	11-9021	Directors, religious activities & education	21-2021
Continuous mining machine operators	47-5041	Dishwashers	35-9021
Control & valve installers & repairers, except mechanical door	49-9012	Dispatchers, except police, fire & ambulance	43-5032
Conveyor operators & tenders	53-7011	Door-to-door sales workers, news & street vendors, & related workers	41-9091
Cooks, all other	35-2019	Drafters, all other	17-3019
Cooks, fast food	35-2011	Dredge operators	53-7031
Cooks, institution & cafeteria	35-2012	Drilling & boring machine tool setters, operators & tenders	51-4032
Cooks, private household	35-2013	Driver/sales workers	53-3031
Cooks, restaurant	35-2014	Drywall & ceiling tile installers	47-2081
Cooks, short order	35-2015	Earth drillers, except oil & gas	47-5021
Cooling & freezing equipment operators & tenders	51-9193	Economists	19-3011
Correctional officers & jailers	33-3012	Editors	27-3041
Correspondence clerks	43-4021	Education administrators, all other	11-9039
Cost estimators	13-1051	Education administrators, elementary & secondary school	11-9032
Costume attendants	39-3092	Education administrators, postsecondary	11-9033
		Education administrators, preschool & child care center/program	11-9031

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Education, training & library workers, all other	25-9099	Fallers	45-4021
Educational, vocational & school counselors	21-1012	Farm & home management advisors	25-9021
Electric motor, power tool & related repairers	49-2092	Farm equipment mechanics	49-3041
Electrical & electronic engineering technicians	17-3023	Farm labor contractors	45-1012
Electrical & electronic equipment assemblers	51-2022	Farm, ranch & other agricultural managers	11-9011
Electrical & electronics drafters	17-3012	Farmers & ranchers	11-9012
Electrical & electronics installers & repairers, transportation equipment	49-2093	Farmworkers & laborers, crop, nursery & greenhouse	45-2092
Electrical & electronics repairers, commercial & industrial equipment	49-2094	Farmworkers, farm & ranch animals	45-2093
Electrical & electronics repairers, powerhouse, substation & relay	49-2095	Fashion designers	27-1022
Electrical engineers	17-2071	Fence erectors	47-4031
Electrical power-line installers & repairers	49-9051	Fiberglass laminators & fabricators	51-2091
Electricians	47-2111	File clerks	43-4071
Electromechanical equipment assemblers	51-2023	Film & video editors	27-4032
Electro-mechanical technicians	17-3024	Financial analysts	13-2051
Electronic equipment installers & repairers, motor vehicle	49-2096	Financial examiners	13-2061
Electronic home entertainment equipment installers & repairers	49-2097	Financial managers	11-3031
Electronics engineers, except computer	17-2072	Financial specialists, all other	13-2099
Elementary school teachers, except special education	25-2021	Fine artists, including painters, sculptors & illustrators	27-1013
Elevator installers & repairers	47-4021	Fire fighters	33-2011
Eligibility interviewers, government programs	43-4061	Fire inspectors & investigators	33-2021
Embalmers	39-4011	First-line supervisors/managers of construction trades & extraction workers	47-1011
Emergency management specialists	13-1061	First-line supervisors/managers of correctional officers	33-1011
Emergency medical technicians & paramedics	29-2041	First-line supervisors/managers of farming, fishing & forestry workers	45-1011
Employment, recruitment & placement specialists	13-1071	First-line supervisors/managers of fire fighting & prevention workers	33-1021
Engine & other machine assemblers	51-2031	First-line supervisors/managers of food preparation & serving workers	35-1012
Engineering managers	11-9041	First-line supervisors/managers of helpers, laborers & material movers, hand	53-1021
Engineering technicians, except drafters, all other	17-3029	First-line supervisors/managers of housekeeping & janitorial workers	37-1011
Engineers, all other	17-2199	First-line supervisors/managers of landscaping, lawn service & groundskeeping workers	37-1012
Entertainers & performers, sports & related workers, all other	27-2099	First-line supervisors/managers of mechanics, installers & repairers	49-1011
Entertainment attendants & related workers, all other	39-3099	First-line supervisors/managers of non-retail sales workers	41-1012
Environmental engineering technicians	17-3025	First-line supervisors/managers of office & administrative support workers	43-1011
Environmental engineers	17-2081	First-line supervisors/managers of personal service workers	39-1021
Environmental science & protection technicians, including health	19-4091	First-line supervisors/managers of police & detectives	33-1012
Environmental scientists & specialists, including health	19-2041	First-line supervisors/managers of production & operating workers	51-1011
Epidemiologists	19-1041	First-line supervisors/managers of retail sales workers	41-1011
Etchers & engravers	51-9194	First-line supervisors/managers of transportation & material-moving machine & vehicle operators	53-1031
Excavating & loading machine & dragline operators	53-7032	First-line supervisors/managers, protective service workers, all other	33-1099
Executive secretaries & administrative assistants	43-6011	Fish & game wardens	33-3031
Explosives workers, ordnance handling experts & blasters	47-5031	Fishers & related fishing workers	45-3011
Extraction workers, all other	47-5099	Fitness trainers & aerobics instructors	39-9031
Extruding & drawing machine setters, operators & tenders	51-4021	Flight attendants	39-6031
Extruding & forming machine setters, operators & tenders	51-6091	Floor layers, except carpet, wood & hard tiles	47-2042
Extruding, forming, pressing & compacting machine setters, operators & tenders	51-9041	Floor sanders & finishers	47-2043
Fabric & apparel patternmakers	51-6092		
Fabric menders, except garment	49-9093		

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Floral designers	27-1023	Heating, air conditioning & refrigeration mechanics & installers	49-9021
Food & tobacco roasting, baking & drying machine operators & tenders	51-3091	Helpers, construction trades, all other	47-3019
Food batchmakers	51-3092	Helpers--brickmasons, blockmasons, stonemasons, & tile & marble setters	47-3011
Food cooking machine operators & tenders	51-3093	Helpers--carpenters	47-3012
Food preparation & serving related workers, all other	35-9099	Helpers--electricians	47-3013
Food preparation workers	35-2021	Helpers--extraction workers	47-5081
Food scientists & technologists	19-1012	Helpers--installation, maintenance & repair workers	49-9098
Food servers, nonrestaurant	35-3041	Helpers--painters, paperhangers, plasterers & stucco masons	47-3014
Food service managers	11-9051	Helpers--pipelayers, plumbers, pipefitters & steamfitters	47-3015
Forensic science technicians	19-4092	Helpers--production workers	51-9198
Forest & conservation technicians	19-4093	Helpers--roofers	47-3016
Forest & conservation workers	45-4011	Highway maintenance workers	47-4051
Forest fire inspectors & prevention specialists	33-2022	Historians	19-3093
Foresters	19-1032	Hoist & winch operators	53-7041
Forging machine setters, operators & tenders, metal & plastic	51-4022	Home appliance repairers	49-9031
Foundry mold & coremakers	51-4071	Home health aides	31-1011
Funeral attendants	39-4021	Hosts & hostesses, restaurant, lounge & coffee shop	35-9031
Funeral directors	11-9061	Hotel, motel & resort desk clerks	43-4081
Furnace, kiln, oven, drier & kettle operators & tenders	51-9051	Human resources assistants, except payroll & timekeeping	43-4161
Furniture finishers	51-7021	Human resources managers, all other	11-3049
Gaming & sports book writers & runners	39-3012	Human resources, training & labor relations specialists, all other	13-1079
Gaming cage workers	43-3041	Hunters & trappers	45-3021
Gaming change persons & booth cashiers	41-2012	Hydrologists	19-2043
Gaming dealers	39-3011	Industrial engineering technicians	17-3026
Gaming managers	11-9071	Industrial engineers	17-2112
Gaming service workers, all other	39-3019	Industrial machinery mechanics	49-9041
Gaming supervisors	39-1011	Industrial production managers	11-3051
Gaming surveillance officers & gaming investigators	33-9031	Industrial truck & tractor operators	53-7051
Gas compressor & gas pumping station operators	53-7071	Industrial-organizational psychologists	19-3032
Gas plant operators	51-8092	Information & record clerks, all other	43-4199
General & operations managers	11-1021	Inspectors, testers, sorters, samplers & weighers	51-9061
Geographers	19-3092	Installation, maintenance & repair workers, all other	49-9099
Geological & petroleum technicians	19-4041	Instructional coordinators	25-9031
Geoscientists, except hydrologists & geographers	19-2042	Insulation workers, floor, ceiling & wall	47-2131
Glaziers	47-2121	Insulation workers, mechanical	47-2132
Graders & sorters, agricultural products	45-2041	Insurance appraisers, auto damage	13-1032
Graphic designers	27-1024	Insurance claims & policy processing clerks	43-9041
Grinding & polishing workers, hand	51-9022	Insurance sales agents	41-3021
Grinding, lapping, polishing & buffing machine tool setters, operators & tenders, metal & plastic	51-4033	Insurance underwriters	13-2053
Grounds maintenance workers, all other	37-3019	Interior designers	27-1025
Hairdressers, hairstylists & cosmetologists	39-5012	Interpreters & translators	27-3091
Hazardous materials removal workers	47-4041	Interviewers, except eligibility & loan	43-4111
Health & safety engineers, except mining safety engineers & inspectors	17-2111	Janitors & cleaners, except maids & housekeeping cleaners	37-2011
Health diagnosing & treating practitioners, all other	29-1199	Jewelers & precious stone & metal workers	51-9071
Health educators	21-1091	Job printers	51-5021
Health technologists & technicians, all other	29-2099	Judges, magistrate judges & magistrates	23-1023
Healthcare practitioners & technical workers, all other	29-9099	Kindergarten teachers, except special education	25-2012
Healthcare support workers, all other	31-9099	Laborers & freight, stock & material movers, hand	53-7062
Heat treating equipment setters, operators & tenders, metal & plastic	51-4191	Landscape architects	17-1012
		Landscaping & groundskeeping workers	37-3011

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Lathe & turning machine tool setters, operators & tenders	51-4034	Media & communication equipment workers, all other	27-4099
Laundry & dry-cleaning workers	51-6011	Media & communication workers, all other	27-3099
Law clerks	23-2092	Medical & clinical laboratory technicians	29-2012
Lawyers	23-1011	Medical & clinical laboratory technologists	29-2011
Lay-out workers, metal & plastic	51-4192	Medical & health services managers	11-9111
Legal secretaries	43-6012	Medical & public health social workers	21-1022
Legal support workers, all other	23-2099	Medical appliance technicians	51-9082
Legislators	11-1031	Medical assistants	31-9092
Librarians	25-4021	Medical equipment preparers	31-9093
Library assistants, clerical	43-4121	Medical equipment repairers	49-9062
Library technicians	25-4031	Medical records & health information technicians	29-2071
Licensed practical & licensed vocational nurses	29-2061	Medical scientists, except epidemiologists	19-1042
Life scientists, all other	19-1099	Medical secretaries	43-6013
Life, physical & social science technicians, all other	19-4099	Medical transcriptionists	31-9094
Lifeguards, ski patrol & other recreational protective service workers	33-9092	Meeting & convention planners	13-1121
Loading machine operators, underground mining	53-7033	Mental health & substance abuse social workers	21-1023
Loan counselors	13-2071	Mental health counselors	21-1014
Loan interviewers & clerks	43-4131	Merchandise displayers & window trimmers	27-1026
Loan officers	13-2072	Metal workers & plastic workers, all other	51-4199
Locker room, coatroom & dressing room attendants	39-3093	Metal-refining furnace operators & tenders	51-4051
Locksmiths & safe repairers	49-9094	Meter readers, utilities	43-5041
Locomotive engineers & operators	53-4010	Microbiologists	19-1022
Lodging managers	11-9081	Middle school teachers, except special & vocational education	25-2022
Log graders & scalers	45-4023	Milling & planing machine setters, operators & tenders, metal & plastic	51-4035
Logging equipment operators	45-4022	Millwrights	49-9044
Logging workers, all other	45-4029	Mine cutting & channeling machine operators	47-5042
Logisticians	13-1081	Mining & geological engineers, including mining safety engineers	17-2151
Machine feeders & offbearers	53-7063	Mixing & blending machine setters, operators & tenders	51-9023
Machinists	51-4041	Mobile heavy equipment mechanics, except engines	49-3042
Maids & housekeeping cleaners	37-2012	Model makers, metal & plastic	51-4061
Mail clerks & mail machine operators, except postal service	43-9051	Model makers, wood	51-7031
Maintenance & repair workers, general	49-9042	Models	41-9012
Maintenance workers, machinery	49-9043	Molders, shapers & casters, except metal & plastic	51-9195
Makeup artists, theatrical & performance	39-5091	Molding, coremaking & casting machine setters, operators & tenders, metal & plastic	51-4072
Management analysts	13-1111	Motion picture projectionists	39-3021
Managers, all other	11-9199	Motor vehicle operators, all other	53-3099
Manicurists & pedicurists	39-5092	Motorboat mechanics	49-3051
Manufactured building & mobile home installers	49-9095	Motorboat operators	53-5022
Marine engineers & naval architects	17-2121	Motorcycle mechanics	49-3052
Market research analysts	19-3021	Multi-media artists & animators	27-1014
Marketing managers	11-2021	Multiple machine tool setters, operators & tenders, metal & plastic	51-4081
Marriage & family therapists	21-1013	Museum technicians & conservators	25-4013
Massage therapists	31-9011	Music directors & composers	27-2041
Material moving workers, all other	53-7199	Musical instrument repairers & tuners	49-9063
Materials engineers	17-2131	Musicians & singers	27-2042
Materials scientists	19-2032	Natural sciences managers	11-9121
Mathematical science occupations, all other	15-2099	Network & computer systems administrators	15-1071
Mathematical technicians	15-2091	Network systems & data communications analysts	15-1081
Mathematicians	15-2021	New accounts clerks	43-4141
Meat, poultry & fish cutters & trimmers	51-3022	Nonfarm animal caretakers	39-2021
Mechanical door repairers	49-9011	Nuclear engineers	17-2161
Mechanical drafters	17-3013		
Mechanical engineering technicians	17-3027		
Mechanical engineers	17-2141		

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Nuclear medicine technologists	29-2033	Physician assistants	29-1071
Nuclear technicians	19-4051	Physicians & surgeons	29-1060
Numerical tool & process control programmers	51-4012	Physicists	19-2012
Nursing aides, orderlies & attendants	31-1012	Pipelayers	47-2151
Occupational health & safety specialists	29-9011	Plant & system operators, all other	51-8099
Occupational health & safety technicians	29-9012	Plasterers & stucco masons	47-2161
Occupational therapist aides	31-2012	Plating & coating machine setters, operators & tenders, metal & plastic	51-4193
Occupational therapist assistants	31-2011	Plumbers, pipefitters & steamfitters	47-2152
Occupational therapists	29-1122	Podiatrists	29-1081
Office & administrative support workers, all other	43-9199	Police & sheriff's patrol officers	33-3051
Office clerks, general	43-9061	Police, fire & ambulance dispatchers	43-5031
Office machine operators, except computer	43-9071	Political scientists	19-3094
Operating engineers & other construction equipment operators	47-2073	Postal service clerks	43-5051
Operations research analysts	15-2031	Postal service mail carriers	43-5052
Ophthalmic laboratory technicians	51-9083	Postal service mail sorters, processors & processing machine operators	43-5053
Opticians, dispensing	29-2081	Postmasters & mail superintendents	11-9131
Optometrists	29-1041	Postsecondary teachers	25-1000
Oral & maxillofacial surgeons	29-1022	Pourers & casters, metal	51-4052
Order clerks	43-4151	Power distributors & dispatchers	51-8012
Orthodontists	29-1023	Power plant operators	51-8013
Orthotists & prosthetists	29-2091	Precision instrument & equipment repairers, all other	49-9069
Outdoor power equipment & other small engine mechanics	49-3053	Prepress technicians & workers	51-5022
Packaging & filling machine operators & tenders	51-9111	Preschool teachers, except special education	25-2011
Packers & packagers, hand	53-7064	Pressers, textile, garment & related materials	51-6021
Painters, construction & maintenance	47-2141	Printing machine operators	51-5023
Painters, transportation equipment	51-9122	Private detectives & investigators	33-9021
Painting, coating & decorating workers	51-9123	Probation officers & correctional treatment specialists	21-1092
Paper goods machine setters, operators & tenders	51-9196	Procurement clerks	43-3061
Paperhangers	47-2142	Producers & directors	27-2012
Paralegals & legal assistants	23-2011	Production workers, all other	51-9199
Parking enforcement workers	33-3041	Production, planning & expediting clerks	43-5061
Parking lot attendants	53-6021	Proofreaders & copy markers	43-9081
Parts salespersons	41-2022	Property, real estate & community association managers	11-9141
Patternmakers, metal & plastic	51-4062	Prosthodontists	29-1024
Patternmakers, wood	51-7032	Protective service workers, all other	33-9099
Paving, surfacing & tamping equipment operators	47-2071	Psychiatric aides	31-1013
Payroll & timekeeping clerks	43-3051	Psychiatric technicians	29-2053
Personal & home care aides	39-9021	Psychologists, all other	19-3039
Personal care & service workers, all other	39-9099	Public address system & other announcers	27-3012
Personal financial advisors	13-2052	Public relations managers	11-2031
Pest control workers	37-2021	Public relations specialists	27-3031
Pesticide handlers, sprayers & applicators, vegetation	37-3012	Pump operators, except wellhead pumpers	53-7072
Petroleum engineers	17-2171	Purchasing agents & buyers, farm products	13-1021
Petroleum pump system operators, refinery operators & gaugers	51-8093	Purchasing agents, except wholesale, retail & farm products	13-1023
Pharmacists	29-1051	Purchasing managers	11-3061
Pharmacy aides	31-9095	Radiation therapists	29-1124
Pharmacy technicians	29-2052	Radio & television announcers	27-3011
Photographers	27-4021	Radio mechanics	49-2021
Photographic process workers	51-9131	Radio operators	27-4013
Photographic processing machine operators	51-9132	Radiologic technologists & technicians	29-2034
Physical scientists, all other	19-2099	Rail car repairers	49-3043
Physical therapist aides	31-2022	Rail transportation workers, all other	53-4099
Physical therapist assistants	31-2021	Railroad brake, signal & switch operators	53-4021
Physical therapists	29-1123		

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Railroad conductors & yardmasters	53-4031	Shampooers	39-5093
Rail-track laying & maintenance equipment operators	47-4061	Sheet metal workers	47-2211
Real estate brokers	41-9021	Ship engineers	53-5031
Real estate sales agents	41-9022	Shipping, receiving & traffic clerks	43-5071
Receptionists & information clerks	43-4171	Shoe & leather workers & repairers	51-6041
Recreation workers	39-9032	Shoe machine operators & tenders	51-6042
Recreational therapists	29-1125	Shuttle car operators	53-7111
Recreational vehicle service technicians	49-3092	Signal & track switch repairers	49-9097
Refractory materials repairers, except brickmasons	49-9045	Skin care specialists	39-5094
Refuse & recyclable material collectors	53-7081	Slaughterers & meat packers	51-3023
Registered nurses	29-1111	Slot key persons	39-1012
Rehabilitation counselors	21-1015	Social & community service managers	11-9151
Reinforcing iron & rebar workers	47-2171	Social & human service assistants	21-1093
Religious workers, all other	21-2099	Social science research assistants	19-4061
Reporters & correspondents	27-3022	Social scientists & related workers, all other	19-3099
Reservation & transportation ticket agents & travel clerks	43-4181	Social workers, all other	21-1029
Residential advisors	39-9041	Sociologists	19-3041
Respiratory therapists	29-1126	Soil & plant scientists	19-1013
Respiratory therapy technicians	29-2054	Sound engineering technicians	27-4014
Retail salespersons	41-2031	Special education teachers, middle school	25-2042
Riggers	49-9096	Special education teachers, preschool, kindergarten & elementary school	25-2041
Rock splitters, quarry	47-5051	Special education teachers, secondary school	25-2043
Rolling machine setters, operators & tenders, metal & plastic	51-4023	Speech-language pathologists	29-1127
Roof bolters, mining	47-5061	Stationary engineers & boiler operators	51-8021
Roofers	47-2181	Statistical assistants	43-9111
Rotary drill operators, oil & gas	47-5012	Statisticians	15-2041
Roustabouts, oil & gas	47-5071	Stock clerks & order fillers	43-5081
Sailors & marine oilers	53-5011	Stonemasons	47-2022
Sales & related workers, all other	41-9099	Structural iron & steel workers	47-2221
Sales engineers	41-9031	Structural metal fabricators & fitters	51-2041
Sales managers	11-2022	Substance abuse & behavioral disorder counselors	21-1011
Sales representatives, services, all other	41-3099	Surgical technologists	29-2055
Sales representatives, wholesale & manufacturing, except technical & scientific products	41-4012	Survey researchers	19-3022
Sales representatives, wholesale & manufacturing, technical & scientific products	41-4011	Surveying & mapping technicians	17-3031
Sawing machine setters, operators & tenders, wood	51-7041	Surveyors	17-1022
Secondary school teachers, except special & vocational education	25-2031	Switchboard operators, including answering service	43-2011
Secretaries, except legal, medical & executive	43-6014	Tailors, dressmakers & custom sewers	51-6052
Securities, commodities & financial services sales agents	41-3031	Tank car, truck & ship loaders	53-7121
Security & fire alarm systems installers	49-2098	Tapers	47-2082
Security guards	33-9032	Tax examiners, collectors & revenue agents	13-2081
Self-enrichment education teachers	25-3021	Tax preparers	13-2082
Semiconductor processors	51-9141	Taxi drivers & chauffeurs	53-3041
Separating, filtering, clarifying, precipitating & still machine setters, tenders & operators	51-9012	Teacher assistants	25-9041
Septic tank servicers & sewer pipe cleaners	47-4071	Teachers & instructors, all other	25-3099
Service station attendants	53-6031	Team assemblers	51-2092
Service unit operators, oil, gas & mining	47-5013	Technical writers	27-3042
Set & exhibit designers	27-1027	Telecommunications equipment installers & repairers, except line installers	49-2022
Sewers, hand	51-6051	Telecommunications line installers & repairers	49-9052
Sewing machine operators	51-6031	Telemarketers	41-9041
		Telephone operators	43-2021
		Tellers	43-3071
		Textile bleaching & dyeing machine operators & tenders	51-6061
		Textile cutting machine setters, operators & tenders	51-6062

OCCUPATIONAL TITLE	SOC Code	OCCUPATIONAL TITLE	SOC Code
Textile knitting & weaving machine setters, operators & tenders	51-6063	Truck drivers, light or delivery services	53-3033
Textile winding, twisting & drawing out machine setters, operators & tenders	51-6064	Umpires, referees & other sports officials	27-2023
Textile, apparel & furnishings workers, all other	51-6099	Upholsterers	51-6093
Therapists, all other	29-1129	Urban & regional planners	19-3051
Tile & marble setters	47-2044	Ushers, lobby attendants & ticket takers	39-3031
Timing device assemblers, adjusters & calibrators	51-2093	Veterinarians	29-1131
Tire builders	51-9197	Veterinary assistants & laboratory animal caretakers	31-9096
Tire repairers & changers	49-3093	Veterinary technologists & technicians	29-2056
Title examiners, abstractors & searchers	23-2093	Vocational education teachers, middle school	25-2023
Tool & die makers	51-4111	Vocational education teachers, secondary school	25-2032
Tool grinders, filers & sharpeners	51-4194	Waiters & waitresses	35-3031
Tour guides & escorts	39-6021	Watch repairers	49-9064
Traffic technicians	53-6041	Water & liquid waste treatment plant & system operators	51-8031
Training & development managers	11-3042	Weighers, measurers, checkers & samplers, recordkeeping	43-5111
Training & development specialists	13-1073	Welders, cutters, solderers & brazers	51-4121
Transit & railroad police	33-3052	Welding, soldering & brazing machine setters, operators & tenders	51-4122
Transportation attendants, except flight attendants & baggage porters	39-6032	Wellhead pumpers	53-7073
Transportation inspectors	53-6051	Wholesale & retail buyers, except farm products	13-1022
Transportation workers, all other	53-6099	Woodworkers, all other	51-7099
Transportation, storage & distribution managers	11-3071	Woodworking machine setters, operators & tenders, except sawing	51-7042
Travel agents	41-3041	Word processors & typists	43-9022
Travel guides	39-6022	Writers & authors	27-3043
Tree trimmers & pruners	37-3013	Zoologists & wildlife biologists	19-1023
Truck drivers, heavy & tractor-trailer	53-3032		

Employment projections by industry, 2004-2014

INDUSTRY	EMPLOYMENT		EMPLOYMENT CHANGE	
	2004	2014	Jobs	Percent
TOTAL EMPLOYMENT ¹	1,619,400	1,812,000	192,600	11.89%
Goods-producing industries	268,500	270,760	2,270	0.84%
Natural resources & mining	63,510	61,920	-1,590	-2.50%
Construction	62,700	67,110	4,400	7.02%
Manufacturing	142,290	141,740	-550	-0.39%
Services-providing industries	1,238,180	1,425,420	187,240	15.12%
Trade, transportation & utilities	276,940	303,630	26,690	9.64%
Information	31,750	35,430	3,680	11.60%
Financial activities	84,720	93,050	8,330	9.83%
Professional & business services	162,470	204,840	42,370	26.08%
Education & health services	327,280	387,860	60,570	18.51%
Leisure & hospitality	129,110	148,370	19,260	14.92%
Other services (except government)	75,490	85,450	9,950	13.18%
Government	150,420	166,810	16,390	10.90%
Total self-employed & unpaid family workers ²	112,730	115,820	3,090	2.74%
Self-employed workers	110,680	114,130	3,450	3.12%
Unpaid family workers	2,050	1,690	-360	-17.51%
Agriculture ³	32,460	30,830	-1,620	-5.00%
Mining	31,050	31,090	40	0.12%
Oil & gas extraction	13,480	12,410	-1,070	-7.91%
Mining (except oil & gas)	1,900	1,900	-10	-0.44%
Support activities for mining	15,670	16,780	1,110	7.09%
Utilities	10,660	10,520	-140	-1.32%
Construction	62,700	67,110	4,400	7.02%
Construction of buildings	13,220	12,890	-330	-2.48%
Heavy & civil engineering construction	10,710	10,590	-120	-1.13%
Specialty trade contractors	38,770	43,620	4,850	12.52%
Manufacturing	142,290	141,740	-550	-0.39%
Food manufacturing	19,440	22,100	2,660	13.67%
Beverage & tobacco product manufacturing	2,120	2,210	90	4.30%

¹ Total employment includes covered and non-covered employment, agricultural employment and self-employed and unpaid family workers. Covered employment data are from the BLS (Bureau of Labor Statistics) Quarterly Census of Employment and Wages program from Oklahoma Employment Security Commission. Non-covered employment data are average annual data from the BLS Current Employment Statistics program from Oklahoma Employment Security Commission.

² Self-employed & unpaid family workers data are produced from the projection matrix system based on Oklahoma OES (Occupational Employment Statistics) survey and BLS Current Population Survey. The estimates of the number of self-employed in the base year are larger than these projections round than they were in previous rounds because the file supplied by the Bureau of Labor Statistics now includes estimates of all self-employed jobs (jobs held by people primarily self-employed plus jobs held by people secondarily self-employed).

³ Employment data for Agriculture are from the Census Bureau American Community Survey 2004.

INDUSTRY	EMPLOYMENT		EMPLOYMENT CHANGE	
	2004	2014	Jobs	Percent
Textile mills	120	60	-60	-52.17%
Textile product mills	700	440	-260	-37.55%
Apparel manufacturing	940	320	-620	-66.40%
Leather & allied product manufacturing	280	250	-40	-12.86%
Wood product manufacturing	4,110	4,620	520	12.55%
Paper manufacturing	3,330	3,260	-70	-2.19%
Printing & related support activities	4,250	3,220	-1,020	-24.10%
Petroleum & coal products manufacturing	2,080	1,270	-810	-38.99%
Chemical manufacturing	2,910	3,100	190	6.64%
Plastics & rubber products manufacturing	12,790	12,230	-550	-4.33%
Nonmetallic mineral product manufacturing	8,150	8,030	-130	-1.56%
Primary metal manufacturing	4,010	3,980	-30	-0.83%
Fabricated metal product manufacturing	22,330	22,360	30	0.14%
Machinery manufacturing	22,520	21,150	-1,360	-6.05%
Computer & electronic product manufacturing	4,930	4,650	-280	-5.72%
Electrical equipment, appliance & component manufacturing	3,030	2,680	-350	-11.65%
Transportation equipment manufacturing	16,080	16,980	900	5.59%
Furniture & related product manufacturing	2,910	2,870	-40	-1.54%
Miscellaneous manufacturing	5,280	5,980	710	13.40%
Wholesale trade	54,560	58,310	3,760	6.88%
Merchant wholesalers, durable goods	24,960	26,240	1,280	5.13%
Merchant wholesalers, non-durable goods	22,660	24,270	1,610	7.10%
Wholesale electronic markets & agents & brokers	6,930	7,800	870	12.48%
Retail trade	169,070	186,830	17,770	10.51%
Motor vehicle & parts dealers	23,760	26,180	2,420	10.19%
Furniture & home furnishings stores	4,500	4,830	330	7.29%
Electronics & appliance stores	6,660	7,790	1,130	17.00%
Building material & garden equipment & supplies dealers	13,740	15,780	2,040	14.87%
Food & beverage stores	23,340	23,100	-240	-1.03%
Health & personal care stores	10,160	11,850	1,690	16.60%
Gasoline stations	12,870	12,590	-290	-2.22%
Clothing & clothing accessories stores	10,840	9,970	-880	-8.07%
Sporting goods, hobby, book & music stores	6,240	7,100	860	13.76%
General merchandise stores	42,950	51,580	8,630	20.10%
Miscellaneous store retailers	11,240	13,250	2,000	17.81%
Non-store retailers	2,750	2,810	60	2.18%
Transportation & warehousing	42,660	47,970	5,310	12.46%
Air transportation	*	*	*	*
Rail transportation	*	*	*	*
Truck transportation	17,280	18,720	1,450	8.36%
Transit & ground passenger transport	*	*	*	*

* Employment data is withheld to maintain data confidentiality.

INDUSTRY	EMPLOYMENT		EMPLOYMENT CHANGE	
	2004	2014	Jobs	Percent
Pipeline transportation	1,690	1,560	-130	-7.69%
Scenic & sightseeing transportation	*	*	*	*
Support activities for transportation	4,380	6,050	1,670	38.08%
Couriers & messengers	4,120	4,460	340	8.35%
Warehousing & storage	3,470	4,380	920	26.39%
Information	31,750	35,430	3,680	11.59%
Publishing industries	6,940	7,800	860	12.31%
Motion picture & sound recording industries	1,790	1,910	120	6.97%
Broadcasting (except internet)	4,790	5,090	290	6.13%
Internet publishing & broadcasting	*	*	*	*
Telecommunications	14,880	16,390	1,510	10.17%
Internet service providers, web search portals & data processing services	3,020	3,870	840	27.81%
Other information services	*	*	*	*
Finance & insurance	61,450	66,070	4,620	7.52%
Monetary authorities - central bank	*	*	*	*
Credit intermediation & related activities	30,740	32,610	1,870	6.07%
Securities, commodity contracts & other financial investments & related activities	3,580	3,600	20	0.50%
Insurance carriers & related activities	26,530	29,230	2,700	10.18%
Funds, trusts & other financial vehicles	*	*	*	*
Real estate & rental & leasing	23,280	26,990	3,710	15.93%
Real estate	11,320	13,380	2,060	18.21%
Rental & leasing services	11,500	13,110	1,620	14.07%
Lessors of non-financial intangible assets (except copyrighted works)	470	500	30	6.42%
Professional, scientific & technical services	57,740	70,600	12,860	22.28%
Management of companies & enterprises	12,470	13,350	880	7.03%
Administrative & support & waste management & remediation services	92,260	120,890	28,630	31.03%
Administrative & support services	89,300	117,400	28,100	31.47%
Waste management & remediation service	2,960	3,490	530	17.89%
Educational services	151,800	172,190	20,390	13.43%
Health care & social assistance	175,480	215,670	40,180	22.90%
Ambulatory health care services	56,130	73,890	17,760	31.65%
Hospitals	61,020	68,550	7,530	12.35%
Nursing & residential care facilities	35,830	43,060	7,230	20.19%
Social assistance	22,510	30,160	7,650	33.98%
Arts, entertainment & recreation	13,700	17,140	3,430	25.07%
Performing arts, spectator sports & related industries	2,060	2,340	290	13.90%
Museums, historical sites & similar institutions	620	1,020	400	63.93%

* Employment data is withheld to maintain data confidentiality.

INDUSTRY	EMPLOYMENT		EMPLOYMENT CHANGE	
	2004	2014	Jobs	Percent
Amusement, gambling & recreation industries	11,030	13,780	2,750	24.96%
Accommodation & food services	115,400	131,230	15,830	13.71%
Accommodation	10,250	10,760	510	4.96%
Food services & drinking places	105,160	120,470	15,320	14.57%
Other services (except government)	75,490	85,450	9,950	13.18%
Repair & maintenance	12,520	14,390	1,870	14.93%
Personal & laundry services	12,550	14,700	2,150	17.10%
Religious, grantmaking, civic, professional & similar organizations	48,090	54,090	5,990	12.46%
Private households	2,330	2,270	-60	-2.36%
Government	150,420	166,810	16,390	10.90%
Federal government	46,200	46,290	90	0.20%
Federal government, excluding postal service	37,790	38,750	960	2.54%
Postal service	8,410	7,540	-870	-10.33%
State government, excluding education & hospitals	36,960	38,590	1,630	4.42%
Local government, excluding education & hospitals	67,260	81,920	14,670	21.81%

Employment projections by occupation, 2004-2014

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
00-0000	TOTAL, ALL OCCUPATIONS	1,619,400	1,812,000	192,600	11.9%	59,220	\$15.12		
11-0000	MANAGEMENT occupations	98,930	112,270	13,340	13.5%	3,190	\$32.34		
11-1000	Top executives	36,350	41,920	5,570	15.3%	1,240			
11-1011	Chief executives	8,720	10,050	1,330	15.3%	300	\$48.80	ABA	4
11-1021	General & operations managers	27,010	31,220	4,210	15.6%	930	\$33.60	ABA	4
11-1031	Legislators	620	650	30	5.3%	10	*	CB	4
11-2000	Advertising, marketing, promotions, public relations & sales managers	6,020	7,250	1,230	20.4%	230			
11-2011	Advertising & promotions managers	510	620	100	19.8%	20	\$31.96	CAA	4
11-2021	Marketing managers	1,270	1,520	250	19.5%	50	\$37.16	BAA	4
11-2022	Sales managers	3,410	4,090	690	20.1%	130	\$35.67	AAA	4
11-2031	Public relations managers	820	1,020	190	23.3%	30	\$27.47	BAA	4
11-3000	Operations specialties managers	17,420	20,110	2,690	15.4%	570			
11-3011	Administrative services managers	3,890	4,480	600	15.3%	140	\$23.47	ABA	4
11-3021	Computer & information systems managers	2,260	2,790	530	23.5%	90	\$39.64	AAA	4
11-3031	Financial managers	5,860	6,720	860	14.7%	170	\$32.99	ABA	4
11-3041	Compensation & benefits managers	930	1,130	200	21.8%	40	\$27.32	BAA	4
11-3042	Training & development managers	730	900	170	23.2%	30	\$24.17	BAA	4
11-3049	Human resources managers, all other	430	490	60	14.3%	10	\$30.14	CBA	4
11-3051	Industrial production managers	1,540	1,650	100	6.7%	40	\$31.42	BBA	8
11-3061	Purchasing managers	690	740	50	7.5%	20	\$32.70	BBA	4
11-3071	Transportation, storage & distribution managers	1,100	1,210	120	10.5%	30	\$29.49	BBA	8
11-9000	Other management occupations	39,140	42,990	3,850	9.8%	1,150			
11-9011	Farm, ranch & other agricultural managers	5,690	5,820	130	2.2%	110	\$24.05	ACA	4
11-9021	Construction managers	4,780	5,150	370	7.7%	120	\$28.77	ABA	5
11-9031	Education administrators, preschool & child care center/programs	760	960	200	26.9%	40	\$14.49	BAC	4
11-9032	Education administrators, elementary & secondary school	2,810	3,090	280	9.8%	100	*	AB	4
11-9033	Education administrators, postsecondary	1,530	1,760	230	15.2%	60	\$28.17	BBA	4
11-9039	Education administrators, all other	290	330	40	13.7%	10	\$28.40	CBA	4
11-9041	Engineering managers	1,710	1,940	230	13.3%	60	\$43.45	BBA	4
11-9051	Food service managers	4,660	5,100	430	9.3%	120	\$16.75	ABB	8
11-9061	Funeral directors	490	530	40	8.2%	20	\$22.39	CBA	6
11-9071	Gaming managers	70	90	20	31.4%	0	\$19.70	DAB	8
11-9081	Lodging managers	710	740	30	4.0%	20	\$15.30	BBB	8
11-9111	Medical & health services managers	3,480	4,090	610	17.6%	130	\$32.11	AAA	4
11-9121	Natural sciences managers	380	410	30	8.8%	10	\$40.52	CBA	4
11-9131	Postmasters & mail superintendents	550	490	-60	-10.1%	10	\$24.39	CDA	8

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
11-9141	Property, real estate & community association managers	3,360	3,760	400	11.8%	100	\$16.54	ABB	5
11-9151	Social & community service managers	1,700	2,070	370	21.8%	70	\$16.93	BAB	5
11-9199	Managers, all other	6,160	6,660	500	8.1%	170	\$34.35	ABA	8
13-0000	BUSINESS & FINANCIAL OPERATIONS occupations	164,720	74,670	9,960	15.4%	2,150	\$22.66		
13-1000	Business operations specialists	37,810	44,100	6,290	16.6%	1,290			
13-1021	Purchasing agents & buyers, farm products	230	270	30	14.1%	10	\$16.84	CBB	8
13-1022	Wholesale & retail buyers, except farm products	1,930	2,050	120	6.4%	60	\$20.27	ABB	8
13-1023	Purchasing agents, except wholesale, retail & farm products	3,260	3,550	290	8.7%	110	\$21.86	ABA	8
13-1031	Claims adjusters, examiners & investigators	3,980	4,640	650	16.4%	110	\$18.84	ABB	9
13-1032	Insurance appraisers, auto damage	730	860	130	17.3%	20	\$21.75	BAA	9
13-1041	Compliance officers, except agriculture, construction, health & safety, & transportation	2,200	2,530	330	15.0%	90	\$20.78	ABA	9
13-1051	Cost estimators	1,540	1,750	210	13.4%	60	\$23.54	BBA	8
13-1061	Emergency management specialists	120	150	30	26.5%	10	\$16.81	DAB	8
13-1071	Employment, recruitment & placement specialists	1,360	1,700	340	25.1%	60	\$17.92	BAB	5
13-1072	Compensation, benefits & job analysis specialists	1,330	1,570	240	17.8%	40	\$20.11	BAB	5
13-1073	Training & development specialists	3,030	3,590	570	18.7%	100	\$19.31	AAB	5
13-1079	Human resources, training & labor relations specialists, all other	3,090	3,540	450	14.4%	100	\$20.34	ABB	5
13-1081	Logisticians	490	600	110	22.8%	20	\$23.16	CAA	5
13-1111	Management analysts	6,790	7,990	1,200	17.7%	210	\$27.92	AAA	4
13-1121	Meeting & convention planners	530	640	110	19.7%	20	\$16.40	CAB	5
13-1199	Business operations specialists, all other	7,160	8,660	1,500	20.9%	270	\$26.22	AAA	5
13-2000	Financial specialists	26,910	30,570	3,660	13.6%	860			
13-2011	Accountants & auditors	14,890	17,130	2,240	15.0%	510	\$22.67	ABA	5
13-2021	Appraisers & assessors of real estate	1,100	1,360	260	23.5%	50	\$15.28	BAB	7
13-2031	Budget analysts	640	710	70	11.6%	20	\$22.80	CBA	5
13-2041	Credit analysts	830	850	20	2.6%	20	\$21.94	BCA	5
13-2051	Financial analysts	1,160	1,330	170	14.5%	30	\$27.67	BBA	5
13-2052	Personal financial advisors	710	860	150	20.9%	20	\$25.39	BAA	5
13-2053	Insurance underwriters	990	1,070	80	8.2%	30	\$22.82	BBA	5
13-2061	Financial examiners	330	450	120	34.8%	20	\$30.13	CAA	5
13-2071	Loan counselors	560	690	130	23.7%	20	\$15.90	CAB	5
13-2072	Loan officers	3,400	3,710	320	9.3%	90	\$25.30	ABA	5
13-2081	Tax examiners, collectors & revenue agents	910	1,000	90	10.0%	30	\$19.86	BBB	5
13-2082	Tax preparers	880	840	-40	-4.6%	20	\$14.47	BDC	10
13-2099	Financial specialists, all other	510	570	60	12.0%	20	\$23.75	CBA	5
15-0000	COMPUTER & MATHEMATICAL occupations	24,800	30,730	5,930	23.9%	930	\$24.67		
15-1000	Computer specialists	24,370	30,290	5,920	24.3%	910			
15-1011	Computer & information scientists, research	160	190	30	15.3%	0	\$34.95	DBA	2
15-1021	Computer programmers	3,250	3,170	-90	-2.6%	80	\$25.90	ADA	5
15-1031	Computer software engineers, applications	2,890	4,000	1,110	38.4%	140	\$29.02	AAA	5

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
15-1032	Computer software engineers, systems software	1,770	2,430	660	37.3%	80	\$31.09	AAA	5
15-1041	Computer support specialists	6,130	7,220	1,090	17.8%	180	\$15.34	AAB	6
15-1051	Computer systems analysts	4,630	5,650	1,020	22.1%	160	\$30.38	AAA	5
15-1061	Database administrators	1,100	1,500	390	35.8%	50	\$27.12	BAA	5
15-1071	Network & computer systems administrators	2,820	3,820	1,000	35.2%	130	\$26.03	AAA	5
15-1081	Network systems & data communications analysts	1,240	1,880	650	52.1%	80	\$25.41	BAA	5
15-2000	Mathematical scientists	430	440	20	3.5%	10			
15-2031	Operations research analysts	280	290	10	2.8%	10	\$34.63	CCA	3
15-2041	Statisticians	90	90	0	1.1%	0	\$21.44	DCA	3
17-0000	ARCHITECTURE & ENGINEERING occupations	24,060	26,830	2,770	11.5%	840	\$28.49		
17-1000	Architects, surveyors & cartographers	1,720	1,930	220	12.6%	60			
17-1011	Architects, except landscape & naval	950	1,060	110	11.9%	20	\$25.32	BBA	5
17-1012	Landscape architects	60	70	10	20.0%	0	\$21.48	DAA	5
17-1021	Cartographers & photogrammetrists	90	110	10	14.0%	10	\$20.66	DBB	5
17-1022	Surveyors	620	690	80	12.7%	30	\$19.64	CBB	5
17-2000	Engineers	13,100	14,860	1,760	13.5%	480			
17-2011	Aerospace engineers	1,150	1,270	130	11.0%	40	\$35.18	BBA	5
17-2031	Biomedical engineers	120	160	40	29.3%	10	\$27.57	DAA	5
17-2041	Chemical engineers	240	270	30	10.4%	10	\$31.18	CBA	5
17-2051	Civil engineers	1,640	1,870	240	14.3%	50	\$29.87	BBA	5
17-2061	Computer hardware engineers	280	290	10	3.9%	10	\$40.11	CBA	5
17-2071	Electrical engineers	1,090	1,220	130	11.9%	30	\$31.52	BBA	5
17-2072	Electronics engineers, except computer	1,760	2,010	250	14.1%	60	\$34.74	ABA	5
17-2081	Environmental engineers	360	510	160	44.5%	20	\$27.24	CAA	5
17-2111	Health & safety engineers, except mining safety engineers & inspectors	270	300	30	12.6%	10	\$25.92	CBA	5
17-2112	Industrial engineers	1,240	1,490	250	19.8%	60	\$30.65	BAA	5
17-2131	Materials engineers	140	160	20	11.9%	10	\$29.46	DBA	5
17-2141	Mechanical engineers	1,890	2,080	190	9.9%	70	\$32.52	ABA	5
17-2151	Mining & geological engineers, including mining safety engineers	90	80	0	-3.5%	0	\$40.90	DDA	5
17-2171	Petroleum engineers	1,710	1,790	90	5.2%	60	\$42.47	BBA	5
17-2199	Engineers, all other	1,090	1,310	220	19.8%	40	\$27.41	BAA	5
17-3000	Drafters, engineering & mapping technicians	9,240	10,040	790	8.6%	310			
17-3011	Architectural & civil drafters	1,370	1,390	30	2.1%	40	\$17.50	BCB	7
17-3012	Electrical & electronics drafters	650	690	40	5.4%	20	\$19.28	CBB	7
17-3013	Mechanical drafters	1,050	1,110	60	5.6%	40	\$19.45	BBB	7
17-3021	Aerospace engineering & operations technicians	360	380	20	5.0%	10	\$26.36	CBA	6
17-3022	Civil engineering technicians	700	780	90	12.2%	20	\$23.58	BBA	6
17-3023	Electrical & electronic engineering technicians	2,040	2,280	240	11.9%	70	\$23.33	ABA	6
17-3024	Electro-mechanical technicians	250	280	30	11.2%	10	\$19.96	CBB	6
17-3025	Environmental engineering technicians	110	150	40	35.1%	10	\$17.29	DAB	6
17-3027	Mechanical engineering technicians	500	550	50	9.2%	20	\$18.57	CBB	6

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
17-3029	Engineering technicians, except drafters, all other	590	650	60	10.0%	20	\$25.19	CBA	6
17-3031	Surveying & mapping technicians	660	710	60	8.8%	30	\$15.58	CBB	10
19-0000	LIFE, PHYSICAL & SOCIAL SCIENCE occupations	13,970	16,150	2,180	15.6%	540	\$23.42		
19-1000	Life scientists	2,990	3,590	600	20.0%	130			
19-1013	Soil & plant scientists	380	410	30	7.7%	10		CB	5
19-1022	Microbiologists	60	70	10	25.5%	0	\$28.61	DAA	2
19-1023	Zoologists & wildlife biologists	90	100	10	9.6%	0	\$24.63	DBA	5
19-1029	Biological scientists, all other	130	150	20	14.7%	10	\$26.43	DBA	5
19-1031	Conservation scientists	480	520	50	9.9%	20	\$20.46	CBB	5
19-1032	Foresters	80	80	0	5.0%	0	\$23.11	DBA	5
19-1041	Epidemiologists	50	60	10	11.8%	0	\$24.02	DBA	3
19-1042	Medical scientists, except epidemiologists	1,250	1,640	380	30.6%	60	\$21.70	BAA	2
19-2000	Physical scientists	2,950	3,350	410	13.7%	100			
19-2021	Atmospheric & space scientists	170	180	10	6.6%	10	\$31.24	DBA	5
19-2031	Chemists	380	450	70	17.0%	20	\$25.00	CAA	5
19-2041	Environmental scientists & specialists, including health	1,350	1,670	320	23.3%	60	\$20.48	BAB	3
19-2042	Geoscientists, except hydrologists & geographers	870	870	-10	-0.6%	20	\$46.63	BDA	3
19-2043	Hydrologists	60	80	20	26.7%	0	\$33.76	DAA	3
19-2099	Physical scientists, all other	60	60	0	3.3%	0	\$36.87	DBA	5
19-3000	Social scientists & related workers	4,550	5,300	740	16.3%	190			
19-3011	Economists	90	90	0	2.4%	0	\$27.38	DCA	3
19-3021	Market research analysts	1,850	2,190	340	18.1%	80	\$22.98	AAA	5
19-3022	Survey researchers	150	200	40	27.9%	10	\$16.28	DAB	5
19-3031	Clinical, counseling & school psychologists	1,650	1,900	260	15.6%	60	\$21.66	BBA	2
19-3039	Psychologists, all other	120	130	0	3.3%	0	\$30.33	DBA	3
19-3051	Urban & regional planners	320	400	80	25.9%	20	\$27.53	CAA	3
19-3093	Historians	50	50	0	4.0%	0	\$15.89	DBB	3
19-3099	Social scientists & related workers, all other	210	230	20	9.1%	10	\$25.90	CBA	3
19-4000	Life, physical & social science technicians	3,480	3,910	430	12.5%	120			
19-4011	Agricultural & food science technicians	180	190	10	6.8%	10	\$16.07	CBB	6
19-4021	Biological technicians	990	1,170	180	17.7%	30	\$12.19	BAC	6
19-4031	Chemical technicians	350	410	60	18.2%	20	\$17.02	CAB	6
19-4041	Geological & petroleum technicians	780	830	40	5.6%	20	\$21.70	BBA	6
19-4091	Environmental science & protection technicians, including health	430	480	50	12.0%	20	\$16.82	CBB	6
19-4092	Forensic science technicians	90	120	30	36.8%	10	\$18.14	DAB	6
19-4093	Forest & conservation technicians	140	150	10	4.9%	0	\$16.66	DBB	6
19-4099	Life, physical & social science technicians, all other	380	410	30	7.6%	10	\$24.65	CBA	6
21-0000	COMMUNITY & SOCIAL SERVICES occupations	23,340	27,640	4,300	18.4%	880	\$14.68		
21-1000	Counselors, social workers & other community & social service specialists	21,690	25,730	4,040	18.6%	820			
21-1011	Substance abuse & behavioral disorder counselors	840	1,040	210	24.7%	40	\$13.91	BAC	3
21-1012	Educational, vocational & school counselors	3,360	3,670	320	9.4%	110	\$17.14	ABB	3

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
21-1013	Marriage & family therapists	220	280	50	23.3%	10	\$24.70	CAA	3
21-1014	Mental health counselors	1,420	1,760	350	24.5%	70	\$16.28	BAB	3
21-1015	Rehabilitation counselors	1,880	2,370	490	25.9%	90	\$9.50	AAD	3
21-1019	Counselors, all other	90	110	20	23.5%	0	\$14.86	DAC	3
21-1021	Child, family & school social workers	6,120	6,940	820	13.4%	190	\$14.46	ABC	5
21-1022	Medical & public health social workers	1,030	1,250	210	20.6%	40	\$19.74	BAB	5
21-1023	Mental health & substance abuse social workers	940	1,140	200	20.7%	40	\$13.71	BAC	3
21-1029	Social workers, all other	850	940	90	10.4%	30	\$15.80	BBB	5
21-1091	Health educators	710	880	170	24.5%	30	\$18.42	BAB	3
21-1092	Probation officers & correctional treatment specialists	890	1,030	150	16.4%	30	\$15.90	BBB	5
21-1093	Social & human service assistants	2,430	3,140	710	29.4%	110	\$10.22	AAD	10
21-1099	Community & social service specialists, all other	930	1,190	260	28.3%	40	\$13.63	BAC	5
21-2000	Religious workers	1,650	1,910	260	15.6%	60			
21-2011	Clergy	980	1,130	150	15.3%	40	\$16.57	BBB	3
21-2021	Directors, religious activities & education	450	550	100	21.3%	20	\$12.13	CAC	5
23-0000	LEGAL occupations	13,720	14,840	1,120	8.1%	280	\$32.69		
23-1000	Lawyers, judges & related workers	8,920	9,690	770	8.6%	190			
23-1011	Lawyers	8,160	8,870	710	8.7%	180	\$44.02	ABA	1
23-1021	Administrative law judges, adjudicators & hearing officers	440	480	30	7.5%	10	\$33.23	CBA	4
23-1022	Arbitrators, mediators & conciliators	50	50	0	6.4%	0		DB	4
23-1023	Judges, magistrate judges & magistrates	270	300	20	8.8%	10	\$32.00	CBA	4
23-2000	Legal support workers	4,800	5,150	350	7.2%	90			
23-2011	Paralegals & legal assistants	1,720	2,090	370	21.2%	50	\$18.15	BAB	6
23-2091	Court reporters	270	270	0	1.1%	0	\$18.24	CCB	7
23-2092	Law clerks	430	440	10	3.3%	10	\$16.67	CBB	5
23-2093	Title examiners, abstractors & searchers	1,690	1,610	-80	-4.8%	20	\$17.59	BDB	10
23-2099	Legal support workers, all other	690	730	40	6.4%	10	\$22.75	BBA	5
25-0000	EDUCATION, TRAINING & LIBRARY occupations	95,290	111,220	15,940	16.7%	3,560			
25-1000	Postsecondary teachers	18,910	23,710	4,800	0.3%	910	*	AA	
25-2000	Primary, secondary & special education school teachers	49,300	56,570	7,270	14.8%	1,800			
25-2011	Preschool teachers, except special education	7,020	9,320	2,300	32.8%	310	\$10.02	AAD	7
25-2012	Kindergarten teachers, except special education	2,120	2,450	330	15.7%	60	*	AB	5
25-2021	Elementary school teachers, except special education	17,060	19,160	2,100	12.3%	590	*	AB	5
25-2022	Middle school teachers, except special & vocational education	7,120	7,620	500	7.0%	210	*	AB	5
25-2023	Vocational education teachers, middle school	220	240	20	6.8%	10	*	CB	4
25-2031	Secondary school teachers, except special & vocational education	10,530	11,570	1,040	9.9%	400	*	AB	5
25-2032	Vocational education teachers, secondary school	1,050	1,160	110	10.5%	40	*	BB	4
25-2041	Special education teachers, preschool, kindergarten & elementary school	2,070	2,550	490	23.5%	100	*	AA	5
25-2042	Special education teachers, middle school	920	1,110	190	20.7%	40	*	BA	5
25-2043	Special education teachers, secondary school	1,190	1,390	190	16.3%	50	*	BB	5

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
25-3000	Other teachers & instructors	11,980	13,810	1,830	15.3%	330			
25-3011	Adult literacy, remedial education & GED teachers & instructors	980	1,090	110	11.3%	20	\$16.79	BBB	5
25-3021	Self-enrichment education teachers	1,870	2,260	380	20.5%	60	\$15.92	AAB	8
25-3099	Teachers & instructors, all other	9,130	10,470	1,340	14.6%	250	*	AB	5
25-4000	Librarians, curators & archivists	3,620	3,990	370	10.2%	140			
25-4011	Archivists	60	70	10	19.3%	0	\$20.77	DAA	3
25-4012	Curators	80	110	30	32.9%	0	\$17.16	DAB	3
25-4013	Museum technicians & conservators	60	90	20	34.9%	0	\$14.54	DAC	3
25-4021	Librarians	1,870	1,980	110	5.6%	60	\$17.26	ABB	3
25-4031	Library technicians	1,550	1,750	200	13.2%	80	\$8.50	BBD	7
25-9000	Other education, training & library occupations	11,480	13,150	1,670	14.6%	380			
25-9011	Audio-visual collections specialists	80	90	10	11.0%	0	\$16.28	DBB	10
25-9031	Instructional coordinators	1,270	1,500	240	18.9%	40	\$21.11	BAA	3
25-9041	Teacher assistants	9,630	10,980	1,350	14.0%	320	*	AB	11
25-9099	Education, training & library workers, all other	480	560	70	15.2%	20	\$7.13	CBD	5
27-0000	ARTS, DESIGN, ENTERTAINMENT, SPORTS & MEDIA occupations	21,820	24,450	2,630	12.1%	680	\$16.83		
27-1000	Art & design workers	6,420	7,090	670	10.4%	160			
27-1011	Art directors	270	300	30	11.2%	10	\$22.94	CBA	4
27-1012	Craft artists	50	60	0	7.8%	0	\$9.66	DBD	9
27-1013	Fine artists, including painters, sculptors & illustrators	170	170	0	0.6%	0	\$19.21	DCB	9
27-1014	Multi-media artists & animators	650	650	10	0.9%	20	\$20.76	CCB	5
27-1019	Artists & related workers, all other	70	80	10	16.7%	0		DA	9
27-1021	Commercial & industrial designers	360	390	30	8.7%	10	\$20.02	CBB	5
27-1023	Floral designers	1,410	1,610	190	13.7%	40	\$9.23	BBD	10
27-1024	Graphic designers	1,950	2,180	230	11.9%	50	\$16.16	ABB	5
27-1025	Interior designers	290	310	20	8.0%	10	\$19.01	CBB	6
27-1026	Merchandise displayers & window trimmers	1,030	1,160	140	13.1%	30	\$10.95	BBD	10
27-1027	Set & exhibit designers	110	110	0	1.9%	0	\$18.08	DCB	5
27-2000	Entertainers & performers, sports & related workers	4,510	5,070	560	12.4%	150			
27-2012	Producers & directors	780	860	80	10.3%	20	\$20.48	BBB	4
27-2021	Athletes & sports competitors	120	140	20	13.1%	0	*	DB	9
27-2022	Coaches & scouts	1,980	2,270	290	14.5%	70	*	AB	9
27-2032	Choreographers	210	250	40	18.2%	20	\$13.59	CAC	8
27-2042	Musicians & singers	880	960	80	9.6%	30	\$33.37	BBA	9
27-3000	Media & communication workers	7,730	8,660	930	12.1%	260			
27-3011	Radio & television announcers	980	900	-80	-7.8%	30	\$12.70	BDC	9
27-3012	Public address system & other announcers	190	180	-10	-3.2%	10	\$7.97	CDD	9
27-3021	Broadcast news analysts	110	100	0	-1.0%	0	\$28.20	DDA	4
27-3022	Reporters & correspondents	920	940	30	2.7%	30	\$11.81	BCC	4
27-3031	Public relations specialists	2,350	2,830	480	20.4%	80	\$20.97	AAA	5
27-3041	Editors	1,030	1,200	180	17.1%	40	\$19.46	BAB	5

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		2004	2014	Jobs	Pct.				
27-3042	Technical writers	490	580	90	17.3%	20	\$19.81	CAB	5
27-3043	Writers & authors	1,300	1,480	180	13.9%	40	*	BB	5
27-3091	Interpreters & translators	220	280	60	25.5%	10	\$11.18	CAD	9
27-3099	Media & communication workers, all other	150	170	10	9.3%	0	\$15.57	DBB	9
27-4000	Media & communication equipment workers	3,160	3,640	480	15.1%	120			
27-4011	Audio & video equipment technicians	370	420	50	14.4%	10	\$13.67	CBC	9
27-4012	Broadcast technicians	540	570	30	6.2%	20	\$13.70	CBC	6
27-4014	Sound engineering technicians	90	110	20	18.9%	0	\$15.07	DAC	7
27-4021	Photographers	1,700	2,040	340	20.0%	70	\$14.26	BAC	9
27-4031	Camera operators, television, video & motion picture	220	230	10	4.9%	10	\$18.61	CBB	10
27-4032	Film & video editors	120	130	10	8.3%	0	\$20.92	DBA	5
27-4099	Media & communication equipment workers, all other	120	130	10	11.1%	0	\$26.59	DBA	10
29-0000	HEALTHCARE PRACTITIONERS & TECHNICAL occupations	82,580	100,190	17,610	21.3%	3,330	\$23.06		
29-1000	Health diagnosing & treating practitioners	45,700	56,070	10,370	22.7%	1,930			
29-1011	Chiropractors	480	530	60	12.0%	20	\$48.68	CBA	1
29-1021	Dentists, general	1,540	1,610	60	4.1%	30	\$55.10	BBA	1
29-1031	Dietitians & nutritionists	720	810	100	13.7%	30	\$18.93	BBB	5
29-1041	Optometrists	370	420	40	11.2%	20	\$50.40	CBA	1
29-1051	Pharmacists	3,060	3,890	820	26.8%	140	\$38.48	AAA	1
29-1060	Physicians & surgeons	5,430	6,280	850	15.7%	160	*	AB	
29-1071	Physician assistants	930	1,300	370	40.0%	50	\$36.04	BAA	5
29-1111	Registered nurses	24,480	30,800	6,320	25.8%	1,140	\$22.69	AAA	6
29-1122	Occupational therapists	810	1,020	210	26.6%	30	\$30.82	BAA	3
29-1123	Physical therapists	1,790	2,270	480	26.8%	70	\$30.64	AAA	3
29-1124	Radiation therapists	140	160	20	16.7%	10	\$29.70	DAA	6
29-1125	Recreational therapists	320	330	10	3.1%	10	\$14.74	CBC	5
29-1126	Respiratory therapists	1,070	1,320	250	23.7%	60	\$21.55	BAA	6
29-1127	Speech-language pathologists	1,410	1,550	140	9.8%	50	\$22.09	BBA	3
29-1129	Therapists, all other	180	180	0	-1.7%	0	\$22.20	CDA	5
29-1131	Veterinarians	800	1,050	250	30.6%	40	\$29.57	BAA	1
29-1199	Health diagnosing & treating practitioners, all other	710	870	150	21.4%	30	*	BA	5
29-2000	Health technologists & technicians	34,970	41,780	6,810	19.5%	1,320			
29-2011	Medical & clinical laboratory technologists	1,640	1,940	310	18.8%	80	\$20.70	BAB	5
29-2012	Medical & clinical laboratory technicians	1,730	2,080	350	20.0%	80	\$12.93	BAC	6
29-2021	Dental hygienists	1,060	1,500	440	41.6%	50	\$25.65	BAA	6
29-2031	Cardiovascular technologists & technicians	550	660	110	20.8%	20	\$14.66	CAC	6
29-2032	Diagnostic medical sonographers	480	600	130	26.7%	20	\$28.87	CAA	6
29-2033	Nuclear medicine technologists	220	270	50	20.1%	10	\$27.21	CAA	6
29-2034	Radiologic technologists & technicians	2,030	2,430	410	20.1%	80	\$19.71	AAB	6
29-2041	Emergency medical technicians & paramedics	3,330	4,290	960	28.9%	130	\$9.78	AAD	7
29-2051	Dietetic technicians	290	330	40	14.3%	10	\$9.18	CBD	10

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		2004	2014	Jobs	Pct.				
29-2052	Pharmacy technicians	3,640	4,750	1,100	30.2%	160	\$10.77	AAD	10
29-2053	Psychiatric technicians	540	550	10	1.9%	10	\$11.46	CCC	10
29-2054	Respiratory therapy technicians	370	360	0	-0.3%	10	\$16.17	CDB	6
29-2055	Surgical technologists	1,410	1,730	320	23.0%	50	\$13.89	BAC	7
29-2056	Veterinary technologists & technicians	530	740	220	41.0%	30	\$9.18	CAD	6
29-2061	Licensed practical & licensed vocational nurses	13,560	15,240	1,690	12.5%	460	\$14.91	ABC	7
29-2071	Medical records & health information technicians	2,400	2,920	520	21.5%	90	\$11.95	AAC	6
29-2081	Opticians, dispensing	640	710	70	11.0%	20	\$13.62	CBC	9
29-2091	Orthotists & prosthetists	140	180	40	26.4%	10	\$22.26	DAA	5
29-2099	Health technologists & technicians, all other	430	500	60	14.1%	10	\$12.91	CBC	7
29-9000	Other healthcare practitioners & technical occupations	1,920	2,340	430	22.2%	80			
29-9011	Occupational health & safety specialists	450	520	70	15.7%	20	\$24.02	CBA	5
29-9012	Occupational health & safety technicians	140	160	30	20.0%	10	\$18.37	DAB	7
29-9091	Athletic trainers	280	370	90	31.9%	20	*	CA	5
31-0000	HEALTHCARE SUPPORT occupations	46,150	58,680	12,530	27.2%	1,960	\$9.88		
31-1000	Nursing, psychiatric & home health aides	30,020	37,260	7,240	24.1%	1,120			
31-1011	Home health aides	7,480	11,020	3,540	47.3%	450	\$9.09	AAD	11
31-1012	Nursing aides, orderlies & attendants	21,740	25,410	3,670	16.9%	650	\$8.84	AAD	7
31-1013	Psychiatric aides	800	840	40	4.8%	10	\$9.83	BBD	11
31-2000	Occupational & physical therapist assistants & aides	2,290	2,970	680	29.8%	100			
31-2011	Occupational therapist assistants	480	610	130	26.9%	20	\$20.26	CAB	6
31-2012	Occupational therapist aides	60	70	10	18.6%	0	\$9.47	DAD	11
31-2021	Physical therapist assistants	1,080	1,490	410	37.7%	60	\$18.22	BAB	6
31-2022	Physical therapist aides	670	800	130	20.1%	30	\$9.58	BAD	11
31-9000	Other healthcare support occupations	13,850	18,450	4,610	33.3%	740			
31-9011	Massage therapists	330	400	70	21.3%	10	\$14.32	CAC	7
31-9091	Dental assistants	2,500	3,460	960	38.6%	170	\$12.11	AAC	10
31-9092	Medical assistants	5,800	8,300	2,510	43.2%	360	\$11.27	AAD	10
31-9093	Medical equipment preparers	480	580	100	21.3%	20	\$10.10	CAD	11
31-9094	Medical transcriptionists	1,600	1,930	330	20.7%	60	\$12.32	BAC	7
31-9095	Pharmacy aides	890	1,040	150	16.3%	30	\$8.49	BBD	11
31-9096	Veterinary assistants & laboratory animal caretakers	1,030	1,310	280	26.9%	50	\$8.44	BAD	11
31-9099	Healthcare support workers, all other	1,220	1,430	210	17.2%	40	\$11.59	BAC	11
33-0000	PROTECTIVE SERVICE occupations	33,760	39,320	5,560	16.5%	1,510	\$14.27		
33-1000	First-line supervisors/managers, protective service workers	2,770	3,380	610	22.1%	160			
33-1011	First-line supervisors/managers of correctional officers	510	610	100	19.1%	30	\$19.02	CAB	8
33-1012	First-line supervisors/managers of police & detectives	910	1,120	210	23.0%	50	\$22.20	BAA	8
33-1021	First-line supervisors/managers of fire fighting & prevention workers	1,100	1,370	280	25.2%	70	\$24.47	BAA	8
33-1099	First-line supervisors/managers, protective service workers, all other	250	280	30	11.3%	10	\$20.75	CBB	8
33-2000	Fire fighting & prevention workers	4,260	5,340	1,080	25.4%	230			
33-2011	Fire fighters	3,900	4,980	1,080	27.6%	220	\$15.79	AAB	9

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		2004	2014	Jobs	Pct.				
33-2022	Forest fire inspectors & prevention specialists	90	90	0	1.1%	0	\$15.64	DCB	8
33-3000	Law enforcement workers	13,690	16,430	2,740	20.1%	610			
33-3012	Correctional officers & jailers	4,570	5,430	860	18.8%	180	\$12.49	AAC	10
33-3021	Detectives & criminal investigators	780	930	150	19.4%	40	\$22.84	BAA	8
33-3031	Fish & game wardens	200	230	30	13.4%	10	\$18.05	CBB	6
33-3041	Parking enforcement workers	60	80	10	22.6%	0	\$13.40	DAC	11
33-3051	Police & sheriff's patrol officers	8,040	9,730	1,690	21.0%	380	\$15.60	AAB	9
33-9000	Other protective service workers	13,050	14,170	1,120	8.6%	520			
33-9011	Animal control workers	350	430	80	21.7%	30	\$10.06	CAD	10
33-9021	Private detectives & investigators	910	1,040	130	14.5%	30	\$17.99	BBB	8
33-9031	Gaming surveillance officers & gaming investigators	340	430	80	23.6%	20	\$10.98	CAD	10
33-9032	Security guards	8,950	9,400	450	5.1%	240	\$10.91	ABD	11
33-9091	Crossing guards	290	330	40	12.9%	10	\$7.61	CBD	11
33-9092	Lifeguards, ski patrol & other recreational protective service workers	1,220	1,440	220	18.2%	110	\$6.80	BAD	11
33-9099	Protective service workers, all other	990	1,110	120	12.1%	80	\$14.37	BBC	11
35-0000	FOOD PREPARATION & SERVING RELATED occupations	123,740	140,840	17,110	13.8%	6,550	\$7.31		
35-1000	Supervisors, food preparation & serving workers	9,880	11,360	1,480	15.0%	400			
35-1011	Chefs & head cooks	2,030	2,320	300	14.6%	90	\$11.92	ABC	8
35-1012	First-line supervisors/managers of food preparation & serving workers	7,850	9,030	1,190	15.1%	310	\$11.54	ABC	8
35-2000	Cooks & food preparation workers	37,970	42,840	4,880	12.8%	1,700			
35-2011	Cooks, fast food	12,410	14,240	1,830	14.8%	570	\$6.65	ABD	11
35-2012	Cooks, institution & cafeteria	7,280	7,440	150	2.1%	240	\$7.56	ACD	10
35-2014	Cooks, restaurant	8,140	9,330	1,180	14.5%	370	\$8.05	ABD	9
35-2015	Cooks, short order	2,280	2,610	330	14.3%	100	\$7.43	ABD	11
35-2021	Food preparation workers	7,810	9,190	1,380	17.7%	410	\$7.07	AAD	11
35-3000	Food & beverage serving workers	63,860	72,900	9,050	14.2%	3,890			
35-3011	Bartenders	4,010	4,550	550	13.7%	210	\$7.44	ABD	11
35-3021	Combined food preparation & serving workers, including fast food	27,130	31,220	4,090	15.1%	1,590	\$6.66	ABD	11
35-3022	Counter attendants, cafeteria, food concession & coffee shop	3,350	3,910	560	16.9%	280	\$6.94	AAD	11
35-3031	Waiters & waitresses	25,200	28,900	3,700	14.7%	1,670	\$6.75	ABD	11
35-3041	Food servers, non-restaurant	4,180	4,330	150	3.5%	160	\$7.46	ABD	11
35-9000	Other food preparation & serving related workers	12,040	13,740	1,700	14.2%	570			
35-9011	Dining room & cafeteria attendants & bartender helpers	2,870	3,270	400	13.9%	140	\$6.41	ABD	11
35-9021	Dishwashers	5,290	6,030	740	14.1%	250	\$6.88	ABD	11
35-9031	Hosts & hostesses, restaurant, lounge & coffee shop	3,830	4,380	550	14.5%	180	\$7.01	ABD	11
37-0000	BUILDING & GROUNDS CLEANING & MAINTENANCE occupations	53,940	61,590	7,650	14.2%	1,840	\$8.74		
37-1000	Supervisors, building & grounds cleaning & maintenance workers	3,790	4,320	530	14.1%	120			
37-1011	First-line supervisors/managers of housekeeping & janitorial workers	2,040	2,330	290	14.1%	80	\$12.63	ABC	8
37-1012	First-line supervisors/managers of landscaping, lawn service & groundskeeping workers	1,750	2,000	250	14.0%	40	\$14.95	ABC	8
37-2000	Building Cleaning and Pest Control Workers	38,300	43,890	5,590	14.6%	1,310			

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
37-2011	Janitors & cleaners, except maids & housekeeping cleaner	24,950	28,950	3,990	16.0%	870	\$8.46	ABD	11
37-2012	Maids & housekeeping cleaners	12,310	13,840	1,540	12.5%	410	\$7.15	ABD	11
37-2021	Pest control workers	1,030	1,100	70	6.3%	20	\$12.98	BBC	10
37-3000	Grounds maintenance workers	11,860	13,380	1,520	12.8%	410			
37-3011	Landscaping & groundskeeping workers	10,110	11,530	1,420	14.1%	360	\$8.98	ABD	11
37-3012	Pesticide handlers, sprayers & applicators, vegetation	610	650	30	5.6%	20	\$12.80	CBC	10
37-3013	Tree trimmers & pruners	1,100	1,170	60	5.8%	30	\$10.26	BBD	11
39-0000	PERSONAL CARE & SERVICE occupations	42,170	52,270	10,100	24.0%	2,000	\$8.42		
39-1000	Supervisors, personal care & service workers	2,030	2,410	380	18.8%	90			
39-1011	Gaming supervisors	300	390	90	30.5%	20	\$13.46	CAC	8
39-1021	First-line supervisors/managers of personal service workers	1,620	1,880	260	16.0%	70	\$14.23	BBC	8
39-2000	Animal care & service workers	2,590	3,280	690	26.6%	130			
39-2011	Animal trainers	830	980	150	18.2%	30	\$13.90	BAC	10
39-2021	Nonfarm animal caretakers	1,760	2,300	540	30.5%	100	\$9.78	AAD	11
39-3000	Entertainment attendants & related workers	4,420	5,440	1,020	23.2%	260			
39-3011	Gaming dealers	510	700	180	35.5%	30	\$8.61	CAD	7
39-3012	Gaming & sports book writers & runners	410	510	100	24.1%	20	\$8.29	CAD	11
39-3021	Motion picture projectionists	100	80	-20	-20.2%	10	\$7.88	DDD	11
39-3031	Ushers, lobby attendants & ticket takers	680	720	40	6.2%	40	\$6.95	BBD	11
39-3091	Amusement & recreation attendants	1,600	2,020	410	25.7%	90	\$7.07	BAD	11
39-3093	Locker room, coatroom & dressing room attendants	240	290	50	21.4%	10	\$8.56	CAD	11
39-4000	Funeral service workers	610	740	130	21.4%	30			
39-4011	Embalmers	70	80	10	16.9%	0	\$15.79	DAB	7
39-4021	Funeral attendants	550	670	120	21.9%	20	\$8.49	CAD	11
39-5000	Personal appearance workers	5,120	5,990	870	17.0%	190			
39-5012	Hairdressers, hairstylists & cosmetologists	3,610	4,280	670	18.5%	140	\$10.38	AAD	7
39-5092	Manicurists & pedicurists	190	230	40	23.2%	10	\$8.84	CAD	7
39-5093	Shampooers	120	140	20	13.2%	0	\$7.39	DBD	11
39-5094	Skin care specialists	230	280	50	21.2%	10	\$7.94	CAD	7
39-6000	Transportation, tourism & lodging attendants	650	690	40	6.2%	20			
39-6011	Baggage porters & bellhops	300	320	20	6.3%	10	\$7.30	CBD	11
39-6012	Concierges	70	80	10	12.9%	0	\$9.66	DBD	10
39-6021	Tour guides & escorts	90	80	0	-3.5%	0	\$10.29	DDD	10
39-6022	Travel guides	50	50	0	6.1%	0	\$8.61	DBD	10
39-9000	Other personal care & service workers	26,750	33,720	6,960	26.0%	1,290			
39-9011	Child care workers	10,330	12,140	1,800	17.5%	460	\$7.05	AAD	11
39-9021	Personal & home care aides	9,280	13,020	3,740	40.4%	520	\$7.45	AAD	11
39-9031	Fitness trainers & aerobics instructors	3,050	3,690	640	21.1%	130	\$11.90	AAC	7
39-9032	Recreation workers	3,340	3,910	570	17.0%	130	\$9.15	AAD	11
39-9041	Residential advisors	480	610	130	26.6%	20	\$8.42	CAD	10
39-9099	Personal care & service workers, all other	280	350	80	27.8%	10	\$8.64	CAD	11

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
41-0000	SALES & RELATED occupations	165,190	180,350	15,160	9.2%	7,090	\$12.33		
41-1000	Supervisors, sales workers	21,390	21,990	600	2.8%	450			
41-1011	First-line supervisors/managers of retail sales workers	17,980	18,510	530	2.9%	380	\$15.17	ABB	8
41-1012	First-line supervisors/managers of non-retail sales workers	3,410	3,480	80	2.2%	70	\$24.49	ACA	8
41-2000	Retail sales workers	98,540	109,000	10,460	10.6%	5,170			
41-2011	Cashiers	42,850	44,350	1,490	3.5%	2,230	\$7.25	ABD	11
41-2012	Gaming change persons & booth cashiers	670	860	190	28.4%	50	\$8.02	BAD	11
41-2021	Counter & rental clerks	4,880	5,880	1,000	20.6%	290	\$10.11	AAD	11
41-2022	Parts salespersons	3,330	3,090	-240	-7.2%	100	\$11.56	ADC	10
41-2031	Retail salespersons	46,810	54,830	8,020	17.1%	2,500	\$10.12	AAD	11
41-3000	Sales representatives, services	12,190	13,320	1,140	9.3%	380			
41-3011	Advertising sales agents	1,700	1,910	210	12.4%	50	\$21.10	BBA	10
41-3021	Insurance sales agents	4,750	5,200	450	9.4%	160	\$19.97	ABB	5
41-3031	Securities, commodities & financial services sales agents	1,700	1,730	40	2.2%	20	\$31.44	BCA	5
41-3041	Travel agents	610	400	-210	-34.8%	10	\$13.55	CDC	7
41-3099	Sales representatives, services, all other	3,430	4,080	650	19.0%	130	\$15.71	AAB	10
41-4000	Sales representatives, wholesale & manufacturing	15,210	17,070	1,860	12.2%	590			
41-4011	Sales representatives, wholesale & manufacturing, technical & scientific products	4,920	5,530	610	12.4%	190	\$25.54	ABA	10
41-4012	Sales representatives, wholesale & manufacturing, except technical & scientific products	10,290	11,540	1,250	12.1%	400	\$23.21	ABA	10
41-9000	Other sales & related workers	17,860	18,960	1,100	6.2%	510			
41-9011	Demonstrators & product promoters	600	710	100	17.2%	20	\$10.44	CAD	10
41-9021	Real estate brokers	1,090	1,210	120	11.4%	30	*	BB	8
41-9022	Real estate sales agents	5,250	6,200	960	18.2%	200	\$21.99	AAA	7
41-9031	Sales engineers	550	610	50	9.8%	20	\$27.59	CBA	5
41-9041	Telemarketers	5,680	5,710	40	0.7%	100	\$8.23	ACD	11
41-9091	Door-to-door sales workers, news & street vendors & related workers	3,390	2,960	-440	-12.8%	80	\$13.10	ADC	11
41-9099	Sales & related workers, all other	1,290	1,550	260	20.4%	50	\$15.55	BAB	10
43-0000	OFFICE & ADMINISTRATIVE SUPPORT occupations	274,380	287,650	13,280	4.8%	8,340	\$12.36		
43-1000	Supervisors, office & administrative support workers	15,570	16,570	1,000	6.4%	430			
43-1011	First-line supervisors/managers of office & administrative support workers	15,570	16,570	1,000	6.4%	430	\$18.61	ABB	8
43-2000	Communications equipment operators	2,830	2,520	-310	-10.8%	70			
43-2011	Switchboard operators, including answering service	2,650	2,390	-270	-10.0%	70	\$9.62	ADD	11
43-3000	Financial clerks	50,050	52,910	2,860	5.7%	1,530			
43-3011	Bill & account collectors	5,230	6,270	1,050	20.1%	200	\$12.47	AAC	11
43-3021	Billing & posting clerks & machine operators	7,330	7,260	-70	-0.9%	120	\$12.03	ADC	10
43-3031	Bookkeeping, accounting & auditing clerks	24,360	25,030	670	2.7%	520	\$13.27	ACC	10
43-3041	Gaming cage workers	280	340	60	22.1%	20	\$9.42	CAD	11
43-3051	Payroll & timekeeping clerks	3,040	3,550	510	16.6%	130	\$13.29	ABC	10
43-3061	Procurement clerks	1,260	1,180	-70	-5.9%	30	\$15.62	BDB	11

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		2004	2014	Jobs	Pct.				
43-3071	Tellers	8,560	9,270	710	8.3%	490	\$9.49	ABD	11
43-4000	Information & record clerks	64,620	72,790	8,170	12.6%	2,390			
43-4011	Brokerage clerks	300	290	-10	-3.3%	0	\$14.02	CDC	10
43-4021	Correspondence clerks	420	390	-30	-6.5%	10	\$14.16	CDC	11
43-4031	Court, municipal & license clerks	2,110	2,660	550	26.2%	100	\$10.92	AAD	11
43-4041	Credit authorizers, checkers & clerks	440	250	-180	-41.7%	10	\$14.44	CDC	11
43-4051	Customer service representatives	26,440	32,880	6,440	24.4%	1,040	\$12.09	AAC	10
43-4061	Eligibility interviewers, government programs	760	710	-50	-6.7%	20	\$14.30	BDC	10
43-4071	File clerks	2,930	1,800	-1,140	-38.8%	90	\$9.60	ADD	11
43-4081	Hotel, motel & resort desk clerks	1,950	2,070	120	6.1%	100	\$7.29	ABD	11
43-4111	Interviewers, except eligibility & loan	1,940	2,370	430	22.4%	90	\$10.27	AAD	11
43-4121	Library assistants, clerical	830	940	110	13.7%	50	\$7.73	BBD	11
43-4131	Loan interviewers & clerks	1,810	1,800	-10	-0.4%	30	\$14.05	ADC	11
43-4141	New accounts clerks	1,050	1,070	20	2.3%	30	\$11.73	BCC	8
43-4151	Order clerks	2,420	1,790	-630	-25.9%	50	\$11.03	ADD	11
43-4161	Human resources assistants, except payroll & timekeeping	3,210	3,720	510	15.9%	120	\$13.92	ABC	11
43-4171	Receptionists & information clerks	13,080	15,340	2,260	17.3%	550	\$9.62	AAD	11
43-4181	Reservation & transportation ticket agents & travel clerks	2,010	2,080	70	3.6%	60	\$14.98	ABC	11
43-4199	Information & record clerks, all other	2,920	2,600	-310	-10.8%	50	\$17.89	ADB	11
43-5000	Material recording, scheduling, dispatching & distributing workers	41,000	39,920	-1,090	-2.7%	1,330			
43-5011	Cargo & freight agents	610	630	20	3.1%	20	\$16.42	CBB	10
43-5021	Couriers & messengers	1,240	1,100	-140	-11.2%	30	\$9.60	BDD	11
43-5031	Police, fire & ambulance dispatchers	1,870	2,290	420	22.7%	80	\$10.24	AAD	10
43-5032	Dispatchers, except police, fire & ambulance	2,190	2,340	150	6.6%	60	\$14.33	ABC	10
43-5041	Meter readers, utilities	810	480	-330	-40.6%	30	\$11.90	BDC	11
43-5051	Postal service clerks	610	550	-60	-10.2%	20	\$22.96	CDA	11
43-5052	Postal service mail carriers	4,110	3,700	-410	-10.1%	130	\$20.75	ADB	11
43-5053	Postal service mail sorters, processors & processing machine operators	1,990	1,790	-200	-10.1%	50	\$19.29	ADB	11
43-5061	Production, planning & expediting clerks	3,380	3,710	330	9.7%	120	\$18.94	ABB	11
43-5071	Shipping, receiving & traffic clerks	6,830	7,090	260	3.8%	170	\$12.09	ABC	11
43-5081	Stock clerks & order fillers	16,740	15,680	-1,060	-6.3%	620	\$9.69	ADD	11
43-5111	Weighers, measurers, checkers & samplers, recordkeeping	620	560	-60	-9.7%	20	\$11.37	CDC	11
43-6000	Secretaries & administrative assistants	50,770	52,210	1,440	2.8%	1,220			
43-6011	Executive secretaries & administrative assistants	18,870	20,590	1,720	9.1%	530	\$15.03	ABC	10
43-6012	Legal secretaries	3,380	3,670	290	8.5%	90	\$14.57	ABC	7
43-6013	Medical secretaries	4,620	5,100	480	10.3%	140	\$11.19	ABD	7
43-6014	Secretaries, except legal, medical & executive	23,890	22,850	-1,040	-4.4%	460	\$10.65	ADD	10
43-9000	Other office & administrative support workers	49,540	50,750	1,210	2.4%	1,370			
43-9011	Computer operators	1,570	1,060	-510	-32.6%	30	\$13.89	BDC	10
43-9021	Data entry keyers	3,080	2,970	-100	-3.4%	70	\$10.17	ADD	10
43-9022	Word processors & typists	1,150	910	-230	-20.3%	30	\$12.91	BDC	10

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
43-9031	Desktop publishers	170	200	30	18.8%	10	\$12.52	DAC	7
43-9041	Insurance claims & policy processing clerks	2,810	2,980	180	6.2%	60	\$13.96	ABC	10
43-9051	Mail clerks & mail machine operators, except postal service	1,270	780	-490	-38.9%	40	\$9.70	BDD	11
43-9061	Office clerks, general	37,010	39,390	2,370	6.4%	1,060	\$10.21	ABD	11
43-9071	Office machine operators, except computer	710	540	-170	-23.5%	20	\$12.18	BDC	11
43-9199	Office & administrative support workers, all other	1,170	1,280	110	9.1%	40	\$12.02	BBC	11
45-0000	FARMING, FISHING & FORESTRY occupations	26,850	26,550	-300	-1.1%	770	\$9.94		
45-1000	Supervisors, farming, fishing & forestry workers	1,720	1,730	10	0.6%	40			
45-2000	Agricultural workers	21,990	21,710	-280	-1.3%	640			
45-2011	Agricultural inspectors	260	280	20	5.8%	10	\$12.30	CBC	8
45-2041	Graders & sorters, agricultural products	750	780	30	4.3%	20	\$9.84	BBD	8
45-2091	Agricultural equipment operators	1,510	1,460	-50	-3.4%	40	\$8.45	BDD	10
45-2092	Farmworkers & laborers, crop, nursery & greenhouse	15,770	15,360	-410	-2.6%	450	\$8.57	ADD	11
45-3000	Fishing & hunting workers	1,130	890	-240	-21.1%	30			
45-4000	Forest, conservation & logging workers	2,010	2,220	210	10.3%	60			
45-4021	Fallers	430	520	90	20.4%	20	\$16.79	CAB	10
45-4022	Logging equipment operators	1,130	1,200	70	5.8%	30	\$15.61	BBB	10
47-0000	CONSTRUCTION & EXTRACTION occupations	84,280	94,240	9,970	11.8%	2,740	\$14.77		
47-1000	Supervisors, construction & extraction workers	6,640	6,980	340	5.2%	150			
47-1011	First-line supervisors/managers of construction trades & extraction workers	6,640	6,980	340	5.2%	150	\$23.65	ABA	8
47-2000	Construction trades workers	59,230	66,630	7,400	12.5%	1,850			
47-2011	Boilermakers	260	250	-20	-5.7%	10	\$21.62	CDA	9
47-2021	Brickmasons & blockmasons	1,490	1,850	360	24.0%	60	\$19.08	BAB	9
47-2031	Carpenters	9,550	10,730	1,180	12.4%	270	\$13.90	ABC	9
47-2041	Carpet installers	360	390	30	7.5%	10	\$12.42	CBC	10
47-2042	Floor layers, except carpet, wood & hard tiles	280	300	20	8.4%	10	\$17.28	CBB	10
47-2044	Tile & marble setters	320	400	80	24.8%	10	\$13.99	CAC	9
47-2051	Cement masons & concrete finishers	2,570	2,860	290	11.3%	80	\$13.28	ABC	10
47-2061	Construction laborers	10,780	12,140	1,360	12.6%	280	\$10.84	ABD	10
47-2071	Paving, surfacing & tamping equipment operators	1,510	1,710	200	13.4%	40	\$12.32	BBC	10
47-2073	Operating engineers & other construction equipment operators	4,130	4,550	420	10.1%	150	\$14.22	ABC	10
47-2081	Drywall & ceiling tile installers	1,310	1,410	100	7.8%	40	\$14.91	BBC	10
47-2082	Tapers	220	230	10	4.6%	10	\$17.31	CBB	10
47-2111	Electricians	6,930	7,760	830	12.0%	220	\$17.61	ABB	9
47-2121	Glaziers	510	560	60	11.2%	20	\$12.03	CBC	9
47-2131	Insulation workers, floor, ceiling & wall	600	610	10	2.4%	20	\$16.48	CCB	10
47-2132	Insulation workers, mechanical	220	220	0	0.9%	10	\$14.30	CCC	10
47-2141	Painters, construction & maintenance	5,000	5,660	660	13.2%	140	\$12.88	ABC	10
47-2142	Paperhangers	110	110	0	0.0%	0	*	DC	10
47-2151	Pipelayers	870	940	70	7.8%	30	\$11.75	BBC	10
47-2152	Plumbers, pipefitters & steamfitters	6,850	7,890	1,030	15.1%	260	\$16.75	ABB	9

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
47-2161	Plasterers & stucco masons	120	130	20	12.7%	0	\$17.36	DBB	9
47-2171	Reinforcing iron & rebar workers	110	120	10	10.1%	0	\$15.05	DBC	9
47-2181	Roofers	1,240	1,440	200	16.2%	50	\$13.49	BBC	10
47-2211	Sheet metal workers	3,070	3,330	260	8.5%	100	\$17.62	ABB	9
47-2221	Structural iron & steel workers	730	940	200	27.8%	40	\$17.68	BAB	9
47-3000	Helpers, construction trades	3,870	4,290	420	10.9%	210			
47-3011	Helpers--brickmasons, blockmasons, stonemasons, & tile & marble setters	630	760	140	21.8%	40	\$11.03	CAD	11
47-3012	Helpers--carpenters	510	550	40	8.0%	30	\$9.44	CBD	11
47-3013	Helpers--electricians	940	960	20	2.3%	40	\$11.27	BCD	11
47-3014	Helpers--painters, paperhangers, plasterers & stucco masons	150	170	20	11.8%	10	\$9.82	DBD	11
47-3015	Helpers--pipelayers, plumbers, pipefitters & steamfitters	1,240	1,420	190	15.3%	70	\$9.49	BBD	11
47-3016	Helpers--roofers	240	280	40	16.0%	10	\$9.37	CBD	11
47-3019	Helpers, construction trades, all other	160	140	-20	-14.7%	10	\$8.54	DDD	11
47-4000	Other construction & related workers	6,050	7,270	1,220	20.2%	230			
47-4011	Construction & building inspectors	1,590	1,950	370	23.2%	70	\$16.78	BAB	8
47-4021	Elevator installers & repairers	120	140	20	13.9%	10	\$16.83	DBB	9
47-4041	Hazardous materials removal workers	260	330	70	25.2%	10	\$14.17	CAC	10
47-4051	Highway maintenance workers	3,300	4,040	740	22.5%	120	\$10.58	AAD	10
47-4061	Rail-track laying & maintenance equipment operators	90	90	-10	-5.6%	0	\$17.47	DDB	10
47-4071	Septic tank servicers & sewer pipe cleaners	140	170	30	18.7%	10	\$12.33	DAC	10
47-4099	Construction & related workers, all other	460	480	20	3.5%	10	\$13.81	CBC	10
47-5000	Extraction workers	8,490	9,070	580	6.8%	300			
47-5011	Derrick operators, oil & gas	1,400	1,500	100	7.1%	50	\$16.91	BBB	10
47-5012	Rotary drill operators, oil & gas	1,120	1,200	90	7.8%	40	\$18.17	BBB	10
47-5013	Service unit operators, oil, gas & mining	1,700	1,800	100	6.1%	60	\$17.10	BBB	10
47-5021	Earth drillers, except oil & gas	180	190	10	6.2%	10	\$14.98	CBC	10
47-5031	Explosives workers, ordnance handling experts & blasters	440	460	20	4.5%	20	\$16.49	CBB	10
47-5071	Roustabouts, oil & gas	1,730	1,850	110	6.6%	60	\$13.59	BBC	10
47-5081	Helpers--extraction workers	1,530	1,650	120	7.5%	60	\$13.25	BBC	11
49-0000	INSTALLATION, MAINTENANCE & REPAIR occupations	75,110	84,120	9,020	12.0%	2,640	\$16.72		
49-1000	Supervisors of installation, maintenance & repair workers	6,890	7,830	940	13.7%	270			
49-1011	First-line supervisors/managers of mechanics, installers & repairers	6,890	7,830	940	13.7%	270	\$24.76	ABA	8
49-2000	Electrical & electronic equipment mechanics, installers & repairers	8,820	9,290	480	5.4%	220			
49-2011	Computer, automated teller & office machine repairers	2,020	2,120	110	5.2%	40	\$14.64	ABC	7
49-2021	Radio mechanics	80	80	10	12.0%	0	\$16.54	DBB	7
49-2022	Telecommunications equipment installers & repairers, except line installers	2,290	2,320	30	1.4%	50	\$20.44	ACB	9
49-2091	Avionics technicians	930	980	50	5.8%	30	\$23.39	BBA	7
49-2092	Electric motor, power tool & related repairers	430	440	10	1.9%	10	\$16.07	CCB	7
49-2093	Electrical & electronics installers & repairers, transportation equipment	190	210	20	10.7%	10	\$16.65	CBB	7
49-2094	Electrical & electronics repairers, commercial & industrial equipment	970	1,060	100	9.8%	30	\$20.36	BBB	7
49-2095	Electrical & electronics repairers, powerhouse, substation & relay	280	300	20	6.0%	10	\$22.93	CBA	7

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
49-2096	Electronic equipment installers & repairers, motor vehicle	320	330	0	0.6%	10	\$15.31	CCB	7
49-2098	Security & fire alarm systems installers	590	680	90	15.9%	20	\$15.00	CBC	7
49-3000	Vehicle & mobile equipment mechanics, installers & repairers	24,100	26,890	2,780	11.6%	890			
49-3011	Aircraft mechanics & service technicians	4,930	5,100	170	3.5%	130	\$20.80	ABA	7
49-3021	Automotive body & related repairers	2,340	2,600	260	11.1%	70	\$16.06	ABB	9
49-3022	Automotive glass installers & repairers	110	120	10	13.0%	0	\$16.52	DBB	9
49-3023	Automotive service technicians & mechanics	9,270	10,810	1,540	16.6%	400	\$14.53	ABC	7
49-3031	Bus & truck mechanics & diesel engine specialists	3,170	3,630	460	14.5%	130	\$15.46	ABB	7
49-3041	Farm equipment mechanics	480	500	20	4.6%	10	\$13.40	CBC	7
49-3042	Mobile heavy equipment mechanics, except engines	1,510	1,600	80	5.5%	40	\$15.60	BBB	7
49-3043	Rail car repairers	150	150	10	4.1%	0	*	DB	9
49-3051	Motorboat mechanics	280	320	50	16.1%	10	\$12.74	CBC	9
49-3052	Motorcycle mechanics	210	240	30	13.5%	10	\$13.01	CBC	9
49-3053	Outdoor power equipment & other small engine mechanics	490	560	70	15.2%	20	\$11.06	CBD	10
49-3092	Recreational vehicle service technicians	210	250	40	20.6%	10	\$11.03	CAD	9
49-3093	Tire repairers & changers	950	980	40	3.7%	40	\$9.33	BBD	11
49-9000	Other installation, maintenance & repair occupations	35,300	40,120	4,820	13.6%	1,260			
49-9011	Mechanical door repairers	380	440	60	16.2%	20	\$12.77	CBC	10
49-9012	Control & valve installers & repairers, except mechanical door	1,050	1,080	30	2.9%	30	\$21.28	BCA	10
49-9021	Heating, air conditioning & refrigeration mechanics & installers	3,020	3,660	640	21.3%	110	\$16.33	AAB	9
49-9031	Home appliance repairers	410	440	30	6.3%	10	\$14.13	CBC	9
49-9041	Industrial machinery mechanics	3,970	4,140	170	4.3%	100	\$18.09	ABB	9
49-9042	Maintenance & repair workers, general	15,110	17,560	2,440	16.2%	530	\$13.83	ABC	10
49-9043	Maintenance workers, machinery	1,340	1,430	90	7.0%	40	\$16.41	BBB	11
49-9044	Millwrights	330	360	30	7.5%	10	\$19.01	CBB	9
49-9045	Refractory materials repairers, except brickmasons	80	90	10	7.6%	0	\$15.31	DBB	10
49-9051	Electrical power-line installers & repairers	1,640	1,730	90	5.2%	60	\$20.19	BBB	9
49-9052	Telecommunications line installers & repairers	2,610	3,110	500	19.2%	120	\$17.99	AAB	9
49-9062	Medical equipment repairers	260	290	40	13.5%	10	\$17.97	CBB	6
49-9069	Precision instrument & equipment repairers, all other	110	120	10	6.2%	0	\$19.97	DBB	10
49-9091	Coin, vending & amusement machine servicers & repairers	530	540	20	2.8%	10	\$11.51	CCC	10
49-9094	Locksmiths & safe repairers	300	380	80	27.1%	20	\$12.93	CAC	10
49-9096	Riggers	70	70	0	2.9%	0	\$17.35	DBB	11
49-9098	Helpers--installation, maintenance & repair workers	2,580	3,030	450	17.3%	130	\$10.25	AAD	11
49-9099	Installation, maintenance & repair workers, all other	1,030	1,140	110	10.4%	30	\$17.87	BBB	10
51-0000	PRODUCTION Occupations	122,890	128,700	5,810	4.7%	3,860	\$13.37		
51-1000	Supervisors, production workers	7,370	7,780	410	5.6%	200			
51-1011	First-line supervisors/managers of production & operating workers	7,370	7,780	410	5.6%	200	\$22.39	ABA	8
51-2000	Assemblers & fabricators	23,310	25,520	2,210	9.5%	830			
51-2021	Coil winders, tapers & finishers	190	140	-50	-24.5%	0	\$13.31	CDC	11
51-2022	Electrical & electronic equipment assemblers	1,160	1,130	-40	-3.2%	30	\$13.76	BDC	11

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
51-2023	Electromechanical equipment assemblers	300	260	-40	-12.7%	10	\$13.01	CDC	11
51-2041	Structural metal fabricators & fitters	1,460	1,530	80	5.4%	40	\$13.75	BBC	10
51-2091	Fiberglass laminators & fabricators	590	690	110	17.9%	30	\$9.78	CAD	10
51-2092	Team assemblers	16,580	18,480	1,910	11.5%	620	\$11.67	ABC	10
51-2099	Assemblers & fabricators, all other	1,260	1,380	120	9.1%	40	\$10.20	BBD	10
51-3000	Food processing workers	7,900	9,130	1,240	15.7%	300			
51-3011	Bakers	1,100	1,290	190	17.2%	40	\$8.95	BAD	9
51-3021	Butchers & meat cutters	1,550	1,580	40	2.3%	40	\$10.72	BCD	9
51-3092	Food batchmakers	840	950	110	13.2%	30	\$11.18	BBD	11
51-3093	Food cooking machine operators & tenders	650	700	50	7.6%	20	\$8.88	CBD	11
51-4000	Metal workers & plastic workers	30,900	31,420	520	1.7%	890			
51-4011	Computer-controlled machine tool operators, metal & plastic	2,050	2,100	50	2.4%	40	\$14.66	ACC	10
51-4012	Numerical tool & process control programmers	160	160	0	2.6%	0	\$20.24	DCB	9
51-4021	Extruding & drawing machine setters, operators & tenders, metal & plastic	680	580	-100	-14.9%	20	\$13.29	BDC	10
51-4022	Forging machine setters, operators & tenders, metal & plastic	670	680	10	1.2%	10	*	BC	10
51-4023	Rolling machine setters, operators & tenders, metal & plastic	270	280	10	4.8%	10	\$13.58	CBC	10
51-4031	Cutting, punching & press machine setters, operators & tenders, metal & plastic	3,000	2,660	-340	-11.4%	70	\$11.92	ADC	10
51-4032	Drilling & boring machine tool setters, operators & tenders, metal & plastic	490	460	-20	-4.7%	10	\$13.15	CDC	10
51-4033	Grinding, lapping, polishing & buffing machine tool setters, operators & tenders, metal & plastic	1,170	1,150	-30	-2.1%	20	\$12.30	BDC	10
51-4034	Lathe & turning machine tool setters, operators & tenders, metal & plastic	670	650	-30	-3.9%	10	\$13.52	BDC	10
51-4035	Milling & planing machine setters, operators & tenders, metal & plastics	380	400	20	5.8%	10	\$12.66	CBC	10
51-4041	Machinists	5,520	5,960	430	7.8%	170	\$15.54	ABB	9
51-4051	Metal-refining furnace operators & tenders	150	150	0	1.4%	0	\$16.20	DCB	10
51-4052	Pourers & casters, metal	80	80	0	0.0%	0	\$15.13	DCC	10
51-4062	Patternmakers, metal & plastic	130	130	0	0.8%	0	\$13.37	DCC	10
51-4071	Foundry mold & coremakers	110	110	10	5.7%	0	\$10.37	DBD	10
51-4072	Molding, coremaking & casting machine setters, operators & tenders, metal & plastic	1,030	990	-40	-3.6%	30	\$11.01	BDD	10
51-4081	Multiple machine tool setters, operators & tenders, metal & plastic	1,400	1,420	20	1.1%	40	\$15.40	BCB	10
51-4111	Tool & die makers	460	470	10	1.3%	10	\$20.14	CCB	9
51-4121	Welders, cutters, solderers & brazers	8,250	8,880	630	7.6%	300	\$14.31	ABC	9
51-4122	Welding, soldering & brazing machine setters, operators & tenders	1,390	1,410	30	1.8%	40	\$14.67	BCC	10
51-4191	Heat treating equipment setters, operators & tenders, metal & plastic	330	350	20	4.5%	10	\$14.88	CBC	10
51-4192	Lay-out workers, metal & plastic	190	190	0	0.5%	0	\$14.41	CCC	10
51-4193	Plating & coating machine setters, operators & tenders, metal & plastic	600	630	40	6.0%	20	\$14.78	CBC	10
51-4194	Tool grinders, filers & sharpeners	260	250	-10	-3.9%	10	\$14.12	CDC	10
51-5000	Printing workers	3,510	3,250	-270	-7.6%	80			
51-5011	Bindery workers	530	450	-80	-15.6%	10	\$11.54	CDC	11
51-5021	Job printers	620	550	-70	-11.2%	20	\$13.43	CDC	9

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
51-5022	Prepress technicians & workers	640	570	-70	-10.9%	20	\$12.38	CDC	7
51-5023	Printing machine operators	1,720	1,670	-40	-2.5%	40	\$12.78	BDC	10
51-6000	Textile, apparel & furnishings workers	6,670	6,550	-120	-1.8%	190			
51-6011	Laundry & dry-cleaning workers	2,780	3,110	330	11.8%	110	\$7.71	ABD	10
51-6021	Pressers, textile, garment & related materials	890	970	90	9.9%	20	*	BB	11
51-6031	Sewing machine operators	1,300	930	-370	-28.7%	20	\$8.77	BDD	10
51-6052	Tailors, dressmakers & custom sewers	410	420	20	3.7%	10	\$10.89	CBD	9
51-6062	Textile cutting machine setters, operators & tenders	150	120	-30	-18.1%	0	\$9.82	DDD	10
51-6091	Extruding & forming machine setters, operators & tenders, synthetic & glass fibers	120	110	-20	-12.2%	0	\$14.37	DDC	10
51-6093	Upholsterers	370	320	-60	-15.8%	10	\$11.90	CDC	9
51-7000	Woodworkers	3,170	3,170	0	0.1%	90			
51-7011	Cabinetmakers & bench carpenters	1,730	1,790	60	3.6%	50	\$11.43	BBC	9
51-7021	Furniture finishers	130	140	0	2.3%	0	\$11.78	DCC	9
51-7041	Sawing machine setters, operators & tenders, wood	520	500	-20	-2.9%	20	\$9.88	CDD	10
51-7042	Woodworking machine setters, operators & tenders, except sawing	730	680	-50	-6.7%	20	\$10.57	BDD	10
51-8000	Plant & system operators	4,970	5,350	380	7.7%	200			
51-8012	Power distributors & dispatchers	160	160	0	0.7%	0	*	DC	9
51-8013	Power plant operators	670	660	-10	-0.9%	20	\$24.03	CDA	9
51-8021	Stationary engineers & boiler operators	360	390	30	8.5%	10	\$18.38	CBB	9
51-8031	Water & liquid waste treatment plant & system operators	1,740	2,150	410	23.4%	100	\$12.27	BAC	9
51-8091	Chemical plant & system operators	150	140	-10	-8.1%	10	\$19.50	DDB	9
51-8092	Gas plant operators	490	540	50	10.4%	20	\$23.52	CBA	9
51-8093	Petroleum pump system operators, refinery operators & gaugers	1,310	1,210	-100	-7.8%	40	\$21.24	BDA	9
51-8099	Plant & system operators, all other	90	100	10	13.3%	0	\$20.36	DBB	9
51-9000	Other production occupations	35,100	36,530	1,430	4.1%	1,080			
51-9011	Chemical equipment operators & tenders	320	320	0	-0.9%	10	\$18.93	CDB	10
51-9012	Separating, filtering, clarifying, precipitating & still machine setters, operators & tenders	290	310	20	6.6%	10	\$13.03	CBC	10
51-9021	Crushing, grinding & polishing machine setters, operators & tenders	630	680	50	7.6%	20	\$11.79	CBC	10
51-9022	Grinding & polishing workers, hand	550	520	-30	-5.8%	10	\$10.89	CDD	10
51-9023	Mixing & blending machine setters, operators & tenders	1,500	1,610	110	7.5%	50	\$13.28	BBC	10
51-9031	Cutters & trimmers, hand	210	230	20	7.6%	10	\$10.69	CBD	11
51-9032	Cutting & slicing machine setters, operators & tenders	740	750	20	2.2%	20	\$11.89	BCC	10
51-9041	Extruding, forming, pressing & compacting machine setters, operators & tenders	590	670	70	12.5%	20	\$15.87	CBB	10
51-9051	Furnace, kiln, oven, drier & kettle operators & tenders	320	310	-10	-3.8%	10	\$15.17	CDB	10
51-9061	Inspectors, testers, sorters, samplers & weighers	6,070	6,060	-10	-0.1%	140	\$15.58	ADB	10
51-9071	Jewelers & precious stone & metal workers	160	140	-20	-13.4%	0	\$14.89	DDC	7
51-9081	Dental laboratory technicians	420	500	80	19.0%	20	\$13.51	CAC	9
51-9082	Medical appliance technicians	80	100	20	21.7%	0	*	DA	9

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		2004	2014	Jobs	Pct.				
51-9083	Ophthalmic laboratory technicians	330	340	10	4.0%	10	\$12.73	CBC	10
51-9111	Packaging & filling machine operators & tenders	4,220	4,750	530	12.6%	140	\$10.27	ABD	11
51-9121	Coating, painting & spraying machine setters, operators & tenders	2,030	2,200	170	8.4%	70	\$13.64	ABC	10
51-9122	Painters, transportation equipment	700	820	120	16.6%	30	\$15.95	BBB	9
51-9123	Painting, coating & decorating workers	400	460	60	15.8%	20	\$10.71	CBD	11
51-9131	Photographic process workers	570	500	-70	-12.9%	10	\$11.21	CDD	10
51-9132	Photographic processing machine operators	750	560	-180	-24.5%	20	\$8.72	BDD	11
51-9192	Cleaning, washing & metal pickling equipment operators & tenders	250	280	30	10.9%	10	\$10.18	CBD	10
51-9193	Cooling & freezing equipment operators & tenders	80	90	10	12.5%	0	\$11.47	DBC	10
51-9194	Etchers & engravers	100	90	0	-4.1%	0	\$11.20	DDD	9
51-9195	Molders, shapers & casters, except metal & plastic	4,340	4,040	-300	-6.8%	100	\$9.29	ADD	10
51-9196	Paper goods machine setters, operators & tenders	750	750	0	-0.3%	20	\$16.06	BDB	10
51-9198	Helpers--production workers	6,540	7,450	910	14.0%	280	\$10.09	ABD	11
51-9199	Production workers, all other	1,300	1,250	-50	-4.1%	30	\$13.97	BDC	10
53-0000	TRANSPORTATION & MATERIAL MOVING occupations	107,720	118,690	10,970	10.2%	3,540	\$12.54		
53-1000	Supervisors, transportation & material moving workers	4,040	4,510	480	11.8%	140			
53-1011	Aircraft cargo handling supervisors	100	120	20	16.4%	0	\$27.47	DBA	8
53-1021	First-line supervisors/managers of helpers, laborers & material movers, hand	1,720	1,870	150	8.9%	60	\$18.86	BBB	8
53-1031	First-line supervisors/managers of transportation & material-moving machine & vehicle operators	2,210	2,520	310	13.9%	80	\$22.87	ABA	8
53-2000	Air transportation workers	770	870	110	13.8%	30			
53-2011	Airline pilots, copilots & flight engineers	200	210	10	4.6%	10	*	CB	5
53-2012	Commercial pilots	260	310	50	19.5%	10	*	CA	7
53-2021	Air traffic controllers	280	320	40	14.9%	10	\$35.77	CBA	9
53-3000	Motor vehicle operators	50,160	57,070	6,910	13.8%	1,450			
53-3011	Ambulance drivers & attendants, except emergency medical technicians	130	150	20	17.7%	0	\$8.95	DAD	10
53-3021	Bus drivers, transit & intercity	820	1,000	180	22.3%	40	\$11.23	BAD	10
53-3022	Bus drivers, school	4,650	5,170	520	11.2%	150	\$8.60	ABD	11
53-3031	Driver/sales workers	6,220	7,050	830	13.3%	180	\$10.64	ABD	11
53-3032	Truck drivers, heavy & tractor-trailer	24,660	27,750	3,090	12.6%	710	\$15.59	ABB	10
53-3033	Truck drivers, light or delivery services	10,630	12,390	1,760	16.5%	270	\$11.15	ABD	11
53-3041	Taxi drivers & chauffeurs	1,640	2,000	360	21.9%	50	\$8.45	BAD	11
53-3099	Motor vehicle operators, all other	1,420	1,560	150	10.2%	30	\$15.74	BBB	11
53-4000	Rail transportation workers	950	1,070	120	12.9%	40			
53-4010	Locomotive engineers & operators	280	300	10	4.6%	10	*	CB	
53-5000	Water transportation workers	280	340	70	23.6%	20			
53-6000	Other transportation workers	2,300	2,330	20	1.0%	90			
53-6021	Parking lot attendants	950	870	-80	-8.4%	30	\$7.43	BDD	11
53-6031	Service station attendants	700	710	10	0.9%	30	\$8.00	BCD	11
53-6041	Traffic technicians	80	100	20	23.5%	0	\$15.17	DAB	11
53-6051	Transportation inspectors	250	270	30	10.1%	10	*	CB	8

SOC Code	Occupational title	Employment		Employment Change		Average Annual Openings	Average Hourly Wage	Descriptor	Education Attainment
		2004	2014	Jobs	Pct.				
53-6099	Transportation workers, all other	300	360	60	20.1%	20	\$15.13	CAC	11
53-7000	Material moving workers	49,230	52,500	3,270	6.7%	1,780			
53-7011	Conveyor operators & tenders	810	850	40	5.3%	30	\$10.62	BBD	11
53-7021	Crane & tower operators	410	460	50	11.5%	10	\$18.99	CBB	9
53-7032	Excavating & loading machine & dragline operators	1,390	1,450	70	4.9%	50	\$13.98	BBC	10
53-7033	Loading machine operators, underground mining	70	70	0	0.0%	0	\$17.75	DCB	10
53-7051	Industrial truck & tractor operators	6,180	6,770	590	9.6%	180	\$12.69	ABC	11
53-7061	Cleaners of vehicles & equipment	4,360	4,780	430	9.8%	190	\$9.48	ABD	11
53-7062	Laborers & freight, stock & material movers, hand	24,060	26,010	1,950	8.1%	980	\$9.64	ABD	11
53-7063	Machine feeders & offbearers	1,040	890	-150	-14.1%	30	\$10.79	BDD	11
53-7064	Packers & packagers, hand	6,520	7,060	540	8.3%	180	\$8.11	ABD	11
53-7071	Gas compressor & gas pumping station operators	140	110	-30	-19.2%	0	\$23.08	DDA	10
53-7072	Pump operators, except wellhead pumpers	1,010	750	-250	-25.2%	20	\$20.08	BDB	10
53-7073	Wellhead pumpers	890	710	-180	-20.4%	20	\$20.78	BDA	10
53-7081	Refuse & recyclable material collectors	1,950	2,180	230	11.6%	70	\$11.07	ABD	11
53-7121	Tank car, truck & ship loaders	90	80	-10	-8.1%	0	\$12.95	DDC	10
53-7199	Material moving workers, all other	260	250	-10	-3.1%	10	\$10.26	CDD	10

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