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Media contact: 691-5902

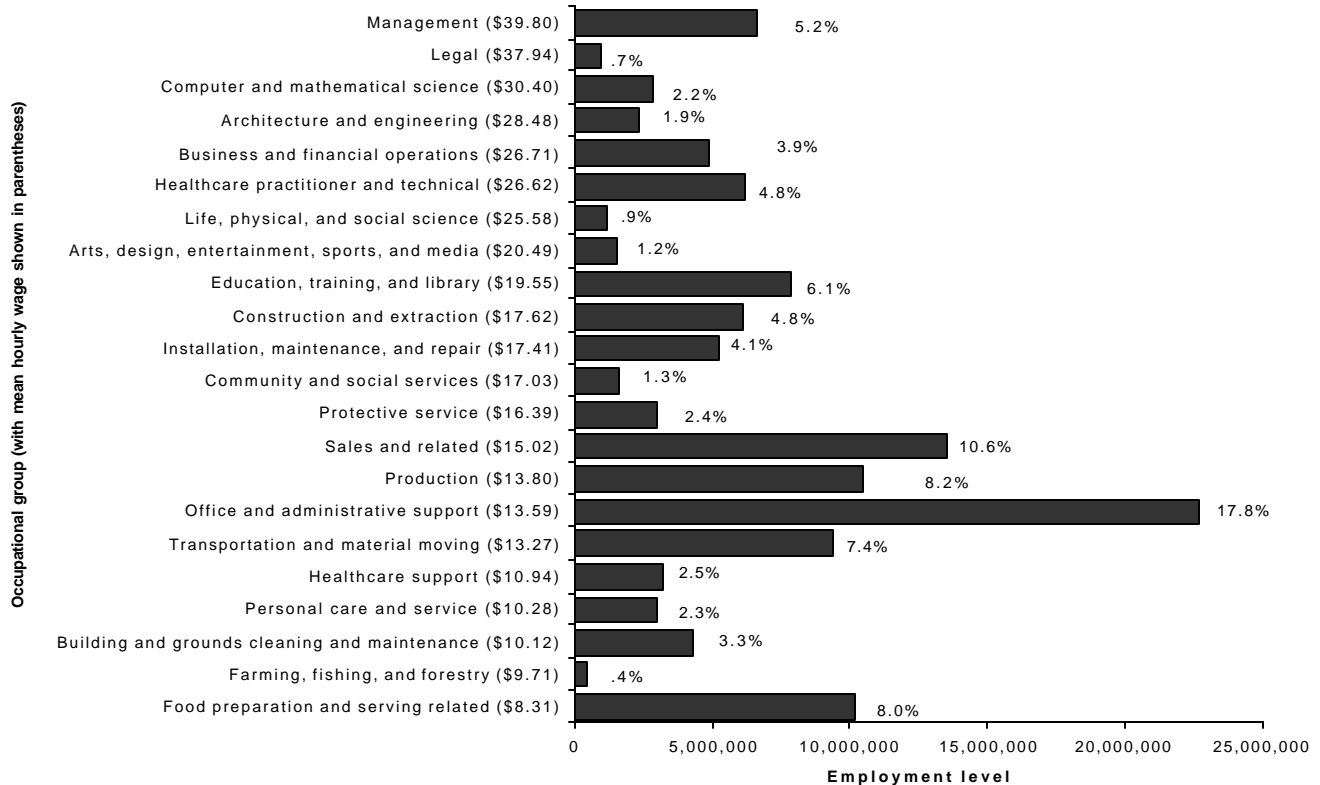
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## OCCUPATIONAL EMPLOYMENT AND WAGES, MAY 2003

Health care-related occupations, including specialist physicians and dentists, accounted for 8 of the 10 highest-paying occupations in May 2003, according to the Bureau of Labor Statistics of the U.S. Department of Labor. The average hourly wages for these health-related occupations ranged from \$91.48 for surgeons to \$63.08 for dentists. The lowest-paying occupations included fast-food cooks who earned \$7.23 per hour and hair shampooers who earned \$7.27 per hour. Five of the six lowest-paying occupations were related to food preparation and serving.

Retail salespersons and cashiers were the largest occupations in the United States, with about 4 million and 3.5 million employees, respectively. Occupations with more than 2 million workers included general office clerks; hand laborers and material movers; registered nurses; waiters and waitresses; janitors and cleaners, except maids and housekeeping cleaners; and combined food preparation and serving workers, including fast food. (See table 1.)

Chart 1. Mean hourly wage and percent of total employment by major occupational group, May 2003



These statistics for wage and salary workers are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and in 770 detailed occupations.

Management and legal occupational groups were the highest paying of the 22 major occupational groups. About 30 percent of the workers in these two occupational groups earned more than \$43.74 per hour. (See table A.) The occupational group with the highest employment level in May 2003 was office and administrative support workers, followed by sales and related workers, production workers, and food preparation and serving workers. (See chart 1.)

The occupational groups with the lowest average wages were food preparation and serving related; farming, fishing, and forestry; building and grounds cleaning and maintenance; and personal care and service. At least 40 percent of all workers in each of these groups earned less than \$8.50 per hour.

**Table A. Wage distribution by major occupational group, May 2003**  
(Percent distribution)

Major occupational group	Wage range								
	Under \$8.50	\$8.50 to \$10.74	\$10.75 to \$13.49	\$13.50 to \$16.99	\$17.00 to \$21.49	\$21.50 to \$27.24	\$27.25 to \$34.49	\$34.50 to \$43.74	\$43.75 and over
Management .....	1.3	1.3	3.0	5.9	9.6	13.7	16.0	16.6	32.4
Business and financial operations .....	1.7	2.1	5.7	12.5	19.1	21.4	17.5	10.9	9.1
Computer and mathematical science .....	.9	1.5	3.4	7.3	12.9	18.8	21.7	19.5	14.0
Architecture and engineering .....	.6	1.9	4.4	8.7	14.8	20.9	21.0	17.0	10.7
Life, physical, and social science .....	2.2	4.3	8.5	13.7	17.4	18.4	15.3	10.8	9.2
Community and social services .....	7.2	11.3	18.5	21.5	18.5	13.3	6.8	2.2	.8
Legal.....	1.5	2.5	5.9	10.7	14.0	13.3	11.4	10.7	30.1
Education, training, and library .....	11.9	8.7	10.0	15.0	18.7	16.8	10.8	5.0	3.1
Arts, design, entertainment, sports, and media ....	13.3	10.1	12.2	14.9	15.2	13.5	9.3	5.7	5.8
Healthcare practitioner and technical .....	2.8	5.1	8.3	13.2	20.0	20.7	13.0	6.9	10.0
Healthcare support .....	25.5	31.2	23.2	13.4	5.1	1.2	.3	.1	-
Protective service .....	17.1	14.5	15.0	14.5	13.8	13.2	7.8	3.2	.9
Food preparation and serving related.....	67.4	17.4	8.6	4.0	1.8	.6	.2	.1	-
Building and grounds cleaning and maintenance .....	42.8	24.6	16.0	9.5	5.0	1.6	.4	.1	-
Personal care and service .....	50.3	21.4	11.5	7.1	4.7	2.6	1.2	.6	.6
Sales and related.....	36.9	16.6	11.3	9.4	8.1	6.3	4.4	3.0	4.0
Office and administrative support.....	15.2	19.8	22.6	19.5	14.4	5.7	1.9	.6	.3
Farming, fishing, and forestry.....	56.8	17.3	11.2	7.2	4.4	2.0	.7	.3	.1
Construction and extraction .....	7.3	12.2	16.6	18.8	17.6	14.4	9.0	3.2	.8
Installation, maintenance, and repair .....	7.5	10.6	15.3	19.4	20.7	16.6	7.3	2.0	.5
Production .....	18.0	19.9	20.3	17.4	12.2	8.1	3.1	.8	.2
Transportation and material moving.....	26.3	19.3	18.0	15.0	11.3	6.2	2.2	.7	1.0

Major groups whose wages were concentrated in the middle included business and financial operations occupations; life, physical, and social science occupations; community and social services occupations; education, training, and library occupations; healthcare practitioner and technical occupations; construction and extraction occupations; and installation, maintenance, and repair occupations.

Table 1 shows employment and wage estimates for detailed occupations within each group. The OES program also provides national occupational employment and wage data by industry, and cross-industry estimates for all states and 334 metropolitan areas. May 2003 OES data for states and metropolitan areas and the national employment and wage data by industry will be available on the BLS Web site in early May.

The OES survey is designed to estimate employment and wages at detailed industry and area levels with a desired level of reliability based on a sample of 1.2 million establishments, collected in six semiannual panels over a 3-year period.

# Technical Note

## Scope of the survey

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments, by industry, in the United States. (Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in this release.) In 2002, the OES survey switched from industry coding based on the Standard Industrial Classification (SIC) system to that based on the North American Industry Classification System (NAICS). The nationwide response rate for the May 2003 survey was 79 percent for establishments, covering 72 percent of weighted employment.

In November 2002, the OES survey changed from an annual survey of 400,000 establishments to a semiannual survey of 200,000 establishments. The OES survey samples and contacts establishments in May and November of each year and, over 3 years, contacts approximately 1.2 million establishments. The full 3-year sample allows the production of estimates at fine levels of geographic, industrial, and occupational detail.

In order to maintain adequate geographic, industrial, and occupational coverage through the implementation of NAICS and semiannual sampling, May 2003 data were combined with samples from November 2002, 2001, 2000, and a subset of certainty units collected in 1999. Note that May 2003 and November 2002 are semiannual samples while 2001 and 2000 are annual samples. Data from 1999 were added to provide complete coverage of the certainty strata. The total sample size is 1.2 million establishments. Estimates from the OES survey are based on data collected using the Standard Occupational Classification (SOC) system. A brief description of this classification system is provided below.

## The Standard Occupational Classification system

In 1999, the OES survey began using the Office of Management and Budget's (OMB) occupational classification system, the Standard Occupational Classification (SOC) system. The SOC system is the first OMB-required occupational classification system for federal agencies. The OES survey categorizes workers in 1 of the 770 detailed occupations. Together, these detailed occupations comprise 23 major occupational groups. The major groups are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical science occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social services occupations
- Legal occupations
- Education, training, and library occupations
- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioner and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry occupations
- Construction and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations

- Transportation and material moving occupations
- Military specific occupations (not surveyed in OES).

For more information about the SOC system, please see the Bureau of Labor Statistics (BLS) Web site at <http://www.bls.gov/soc>.

## The industry coding system

As noted earlier, in 2002, the OES survey switched from using the Standard Industrial Classification (SIC) system to using the North American Industry Classification System (NAICS). For more information about NAICS, see the BLS Web site at <http://www.bls.gov/bls/naics.htm>.

The OES survey includes establishments in NAICS sectors 11 (logging and agricultural support activities only), 21, 22, 23, 31-33, 42, 44-45, 48-49, 51, 52, 53, 54, 55, 56, 61, 62, 71, 72, 81 (except private households), state government, and local government. Data for the U.S. Postal Service and the federal government are universe counts obtained from the Postal Service and the Office of Personnel Management, respectively. An establishment is defined as an economic unit that processes goods or provides services, such as a factory, mine, or store. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The OES survey covers all full- and part-time wage and salary workers in nonfarm industries. The survey does not include the self-employed owners and partners in unincorporated firms, household workers, or unpaid family workers.

## Survey coverage

BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies (SWAs) collect the data. BLS produces cross-industry NAICS estimates for the nation, states, and metropolitan statistical areas (MSAs). NAICS estimates are produced for 3-digit, 4-digit, and selected 5-digit industry levels. BLS releases all cross-industry and national estimates, and the SWAs release industry estimates at the state and MSA levels.

State Unemployment Insurance (UI) files provide the universe from which the OES survey draws its sample. The employment benchmarks are obtained from reports submitted by employers to the UI program. Supplemental sources are used for rail transportation (NAICS 4821) and Guam because they do not report to the UI program. The OES survey sample is stratified by area, industry, and size class. Size classes are defined as follows:

Size class	Number of employees
1	1 to 4
2	5 to 9
3	10 to 19
4	20 to 49
5	50 to 99
6	100 to 249
7	250 and above

UI reporting units with 250 or more employees are sampled with virtual certainty across a 3-year period. Generally, one-sixth of the certainty units are sampled in each panel in each state. Some states, however, sampled more than one-sixth of their certainty units in the May 2003 survey to make up for a shortfall in a previous sample.

## Concepts

*Occupational employment* is the estimate of total wage and salary employment in an occupation across the industries in which that

occupation was reported. The OES survey defines employment as the number of workers who can be classified as full-time or part-time employees, including workers on paid vacations or other types of leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station regardless of whether that unit prepares their paycheck.

The OES survey form sent to an establishment contains between 50 and 225 SOC occupations selected on the basis of the sampled establishment's industry classification and size class. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected primarily from establishments in industries that are the predominant employers of workers in those occupations. Each survey form is structured, however, to allow a respondent to provide detailed occupational information for each worker at the establishment; that is, unlisted occupations can be added to the survey form.

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

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation for each wage range. The wage intervals used for the May 2003 survey are as follows:

Interval	Wages	
	Hourly	Annual
Range A	Under \$6.75	Under \$14,040
Range B	\$6.75 to \$8.49	\$14,040 to \$17,679
Range C	\$8.50 to \$10.74	\$17,680 to \$22,359
Range D	\$10.75 to \$13.49	\$22,360 to \$28,079
Range E	\$13.50 to \$16.99	\$28,080 to \$35,359
Range F	\$17.00 to \$21.49	\$35,360 to \$44,719
Range G	\$21.50 to \$27.24	\$44,720 to \$56,679
Range H	\$27.25 to \$34.49	\$56,680 to \$71,759
Range I	\$34.50 to \$43.74	\$71,760 to \$90,999
Range J	\$43.75 to \$55.49	\$91,000 to \$115,439
Range K	\$55.50 to \$69.99	\$115,440 to \$145,599
Range L	\$70.00 and over	\$145,600 and over

*Mean hourly wage.* The mean hourly wage rate for an occupation is the total wages that all workers in the occupation earn in an hour divided by the total employment of the occupation. To calculate the mean hourly wage of each occupation, total weighted hourly wages are summed across all intervals and divided by the occupation's weighted survey employment. The mean wage for each interval is based on occupational wage data collected by the BLS Office of Compensation and Working Conditions for the National Compensation Survey (NCS).

The mean hourly wage value for the highest wage interval, \$70.00 and over, is calculated after excluding data for pilots. Pilots comprise a large portion of the employment from the NCS that falls into the highest interval, and about one percent of the workers reported for the OES survey makes \$70.00 and over. Since pilots work fewer hours than workers in other occupations, their hourly wage rates are

much higher than other occupations. After excluding pilots from the calculation, the mean wage rate for the highest interval was computed separately for May 2003, November 2002, 2001, 2000, and 1999. Then the average of these five mean wage rates was derived and used for all of the \$70.00 and over data in the May 2003 survey. The wage rates for this interval do not go through any wage updating procedures.

*Percentile wage.* The p-th percentile wage range for an occupation is the wage where p percent of all workers earn that amount or less and where (100-p) percent of all workers earn that amount or more. This statistic is calculated by uniformly distributing the workers inside each wage interval, ranking the workers from lowest paid to highest paid, and calculating the product of the total employment for the occupation and the desired percentile to determine the worker that earns the p-th percentile wage rate.

*Annual wage.* Many employees are paid at an hourly rate by their employers and may work more than or less than 40 hours per week. Annual wage estimates in this release are calculated by multiplying the mean hourly wage by a "year-round, full-time" figure of 2,080 hours (52 weeks by 40 hours). Thus, annual wage estimates may not represent the actual annual pay received by the employee if they work more or less than 2,080 hours per year. Alternatively, some workers are paid based on an annual amount, but they generally do not work the usual 2,080 hours per year. Since the OES survey does not collect the actual number of hours worked, hourly rates cannot be calculated with a reasonable degree of confidence from annual rates. For this reason, the annual salary is directly calculated from reported survey data, and only annual wages are estimated for these occupations. Occupations that typically have a work year of less than 2,080 hours include musical and entertainment occupations, pilots and flight attendants, and teachers.

*Hourly versus annual wage reporting.* For each occupation, respondents are asked to report the number of employees paid within specific wage intervals. The intervals are defined both as hourly rates and the corresponding annual rates, where the annual rate for an occupation is calculated by multiplying the hourly wage rate by a typical work year of 2,080 hours. The responding establishment can reference either the hourly or the annual rate, but they are instructed to report the hourly rate for part-time workers.

## Estimation methodology

Beginning in November 2002, the OES survey samples approximately 200,000 establishments semiannually in November and May of each year, for a combined sample of 1.2 million different establishments over six semiannual panels. Until 2002, the survey sampled approximately 400,000 establishments in the fourth quarter of each year, for a 3-year combined sample size of 1.2 million. While estimates can be made from a single year or 2 years of data, the OES survey has been designed to produce estimates at a desired level of precision using the full 3 years, or 6 panels, of data. The 3-year sample allows the production of estimates at fine levels of geographic, industrial, and occupational detail.

Producing estimates using the 3 years of sample data provides significant sampling error reductions (particularly for small geographic areas and occupations); however, it also has some quality limitations in that it requires the adjustment of earlier year's data to the current reference period, a procedure referred to as "wage updating."

*Wage updating.* As noted above, combining multiple years of data has both statistical advantages and limitations. Significant reductions in sampling error can be achieved by taking advantage of 3 years of

data, which covers over 70 percent of the employment in the United States. This feature is particularly important in improving the reliability of estimates for small domains in the population (that is, wage and employment estimates for detailed occupations in small areas). Combining multiple years of data also has been necessary to obtain full coverage of establishments with 250 or more workers that are sampled with certainty.

Starting with the 1997 estimates, the OES program has used the BLS Employment Cost Index (ECI) to adjust survey data from prior years or panels before combining them with the current panel's data. The wage updating procedure assumes that each occupation's wage rate, as measured in the earlier year or panel, moves according to the average movement of the broader occupational division that encompasses it and that there are no major geographic, industrial, or detailed occupational differences.

*May 2003 OES survey estimates.* The May 2003 OES survey estimates are based on data collected from establishments in the November 2002, 2001, and 2000 samples plus a subset of certainty units collected in 1999. The May 2003 estimates used the wage-updating methodology introduced in 1997. In addition, a "nearest neighbor" hot deck imputation procedure was used to impute occupational employment totals for establishments that reported no employment data. For establishments that reported (or imputed) occupational employment totals but did not report an employment distribution across the wage intervals, a variation of mean imputation was used to impute the distribution. During estimates processing, OES employment data were benchmarked to the average employment for May 2003 and November 2002 from the BLS Quarterly Census of Employment and Wages.

*Reliability of the estimates.* Estimates calculated from a sample survey are subject to two types of error: sampling and nonsampling. *Sampling error* occurs when estimates are calculated from a subset (i.e., sample) of the population instead of the full population. When a sample of the population is surveyed, there is a chance that the sample estimate of the characteristic of interest may differ from the population value of that characteristic. Differences between the sample estimate and the population value will vary depending on the sample selected. This variability can be estimated by calculating the standard error (SE) of the sample estimate. If we were to repeat the sampling and estimation process countless times using the same survey design, approximately 90 percent of the intervals created by adding and subtracting 1.645 SEs from the sample estimate would

include the population value. These intervals are called 90-percent confidence intervals. The OES survey, however, usually uses the relative standard error (RSE) of a sample estimate instead of its SE to measure sampling error. RSE is defined as the SE of a sample estimate divided by the sample estimate itself. This statistic provides the user with a measure of the relative precision of the sample estimate. RSEs are calculated for both occupational employment and mean wage rate estimates. Occupational employment RSEs are calculated using a subsample, random group replication technique called the Jackknife. Mean wage rate RSEs are calculated using a variance components model that accounts for both the observed and unobserved components of the wage data. The variances of the unobserved components are estimated using wage data from the BLS National Compensation Survey. In general, estimates based on many establishments have lower RSEs than estimates based on few establishments. If the distributional assumptions of the models are violated, the resulting confidence intervals may not reflect the prescribed level of confidence.

*Nonsampling error* occurs for a variety of reasons, none of which are directly connected to sampling. Examples of nonsampling error include: nonresponse, data incorrectly reported by the respondent, mistakes made in entering collected data into the database, and mistakes made in editing and processing the collected data.

#### **Additional information**

The May 2003 OES national data by occupation, comparable to data in table 1, will be available soon on the Internet (<http://www.bls.gov/oes>). Users also may access each occupation's definition and percentile wages. The May 2003 cross-industry data for states and metropolitan areas will be available on the BLS Web site in early May. Industry staffing patterns at the 3-, 4-, and selected 5-digit NAICS levels also will be available from the Internet beginning in early May. These data will include industry-specific occupational employment and wage data.

For additional information, contact the Office of Employment and Unemployment Statistics, Division of Occupational Employment Statistics, Room 2135, 2 Massachusetts Avenue, NE, Washington, DC, 20212; telephone 202-691-6569 (e-mail: [oesinfo@bls.gov](mailto:oesinfo@bls.gov)).

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: 202-691-5200; TDD message referral phone number: 1-800-877-8339.



**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Management occupations</b>				
Chief executives.....	389,880	\$67.58	\$140,580	\$64.78
General and operations managers.....	1,892,060	42.64	88,700	35.00
Legislators.....	65,280	15.14	31,490	7.90
Advertising and promotions managers.....	71,100	35.18	73,170	29.01
Marketing managers.....	182,600	44.32	92,190	40.01
Sales managers.....	314,180	44.15	91,840	38.69
Public relations managers.....	58,490	35.94	74,750	31.16
Administrative services managers.....	278,300	30.67	63,780	27.37
Computer and information systems managers.....	266,020	45.78	95,230	43.15
Financial managers.....	521,750	41.92	87,190	37.16
Human resources managers.....	171,530	36.15	75,190	33.08
Industrial production managers.....	166,350	36.88	76,710	33.90
Purchasing managers.....	91,060	34.17	71,080	31.22
Transportation, storage, and distribution managers.....	97,450	33.50	69,670	30.57
Farm, ranch, and other agricultural managers.....	5,420	25.04	52,080	22.83
Construction managers.....	196,110	35.96	74,790	31.96
Education administrators, preschool and child care center/program.....	56,030	19.37	40,290	16.59
Education administrators, elementary and secondary school.....	206,310	(?)	76,210	(?)
Education administrators, postsecondary.....	98,160	35.60	74,040	32.04
Engineering managers.....	194,940	47.94	99,710	45.42
Food service managers.....	229,960	20.20	42,010	17.91
Funeral directors.....	23,080	25.82	53,710	21.48
Gaming managers.....	3,560	30.91	64,300	27.46
Lodging managers.....	30,760	19.70	40,980	17.16
Medical and health services managers.....	226,160	34.92	72,630	31.04
Natural sciences managers.....	41,810	45.19	93,990	41.28
Postmasters and mail superintendents.....	26,060	24.51	50,980	24.10
Property, real estate, and community association managers.....	156,120	22.86	47,550	18.46
Social and community service managers.....	116,020	23.77	49,440	21.85
<b>Business and financial operations occupations</b>				
Agents and business managers of artists, performers, and athletes.....	12,380	31.81	66,160	26.27
Purchasing agents and buyers, farm products.....	15,550	22.86	47,550	20.60
Wholesale and retail buyers, except farm products.....	138,630	23.72	49,350	20.28
Purchasing agents, except wholesale, retail, and farm products.....	237,210	24.07	50,060	22.43
Claims adjusters, examiners, and investigators.....	234,190	22.58	46,960	21.18
Insurance appraisers, auto damage.....	11,450	21.14	43,960	20.99
Compliance officers, except agriculture, construction, health and safety, and transportation.....	154,600	24.23	50,390	22.49
Cost estimators.....	184,620	25.03	52,050	23.22
Emergency management specialists.....	9,760	23.41	48,680	21.68
Employment, recruitment, and placement specialists.....	164,020	22.95	47,730	19.60
Compensation, benefits, and job analysis specialists.....	86,450	23.86	49,620	22.53
Training and development specialists.....	199,460	22.83	47,490	21.23
Management analysts.....	423,880	35.19	73,190	30.09
Meeting and convention planners.....	32,980	20.47	42,570	18.78
Accountants and auditors.....	924,640	26.65	55,430	23.59
Appraisers and assessors of real estate.....	61,070	23.99	49,900	20.97
Budget analysts.....	55,560	27.56	57,330	26.21
Credit analysts.....	68,910	25.25	52,530	21.65
Financial analysts.....	165,420	33.67	70,040	28.87
Personal financial advisors.....	85,670	38.12	79,290	28.22
Insurance underwriters.....	96,890	25.56	53,170	22.75
Financial examiners.....	22,720	30.66	63,770	28.36
Loan counselors.....	30,810	18.12	37,700	16.09
Loan officers.....	237,150	26.73	55,590	22.43
Tax examiners, collectors, and revenue agents.....	71,060	22.62	47,060	20.57
Tax preparers.....	50,410	15.69	32,630	12.76
<b>Computer and mathematical science occupations</b>				
Computer and information scientists, research.....	23,210	40.64	84,530	39.23
Computer programmers.....	431,640	31.01	64,510	29.49
Computer software engineers, applications.....	392,140	36.42	75,750	34.87
Computer software engineers, systems software.....	285,760	37.69	78,400	36.65
Computer support specialists.....	482,990	20.50	42,640	18.96
Computer systems analysts.....	474,780	31.82	66,180	30.85
Database administrators.....	100,890	29.54	61,440	27.98
Network and computer systems administrators.....	237,980	28.43	59,140	26.95
Network systems and data communications analysts.....	148,030	29.84	62,060	28.42
Actuaries.....	14,680	41.22	85,730	34.86
Mathematicians.....	2,470	37.00	76,960	37.64

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Computer and mathematical science occupations <sup>3/4</sup> Continued</b>				
Operations research analysts.....	58,080	\$29.66	\$61,700	\$28.03
Statisticians.....	18,370	29.79	61,970	28.64
Mathematical technicians.....	2,180	19.87	41,320	17.57
<b>Architecture and engineering occupations</b>				
Architects, except landscape and naval.....	91,010	31.18	64,850	27.86
Landscape architects.....	18,910	26.39	54,900	24.27
Cartographers and photogrammetrists.....	8,940	22.37	46,520	21.24
Surveyors.....	51,490	21.06	43,810	19.64
Aerospace engineers.....	70,740	36.54	76,000	35.83
Agricultural engineers.....	2,270	27.11	56,380	24.51
Biomedical engineers.....	6,980	32.20	66,980	30.61
Chemical engineers.....	32,490	36.66	76,250	35.46
Civil engineers.....	206,350	31.07	64,620	29.73
Computer hardware engineers.....	72,550	38.15	79,350	36.53
Electrical engineers.....	146,150	34.66	72,090	33.48
Electronics engineers, except computer.....	137,320	35.16	73,140	34.31
Environmental engineers.....	45,480	31.16	64,820	30.19
Health and safety engineers, except mining safety engineers and inspectors.....	29,920	30.01	62,420	28.68
Industrial engineers.....	156,780	30.91	64,290	30.23
Marine engineers and naval architects.....	4,960	34.52	71,800	33.89
Materials engineers.....	23,120	31.19	64,870	30.25
Mechanical engineers.....	207,810	31.75	66,040	30.72
Mining and geological engineers, including mining safety engineers.....	4,730	31.78	66,090	30.06
Nuclear engineers.....	16,010	41.12	85,520	40.18
Petroleum engineers.....	11,630	41.86	87,070	40.34
Architectural and civil drafters.....	97,800	18.84	39,190	18.12
Electrical and electronics drafters.....	33,720	21.56	44,840	20.06
Mechanical drafters.....	74,010	20.88	43,430	19.96
Aerospace engineering and operations technicians.....	13,900	25.91	53,890	25.33
Civil engineering technicians.....	90,060	18.89	39,290	18.30
Electrical and electronic engineering technicians.....	177,940	21.70	45,150	20.98
Electro-mechanical technicians.....	25,820	19.68	40,930	18.88
Environmental engineering technicians.....	17,630	19.01	39,530	17.88
Industrial engineering technicians.....	64,260	21.68	45,090	20.13
Mechanical engineering technicians.....	50,510	20.84	43,340	20.14
Surveying and mapping technicians.....	57,740	15.39	32,000	14.19
<b>Life, physical, and social science occupations</b>				
Agricultural and food scientists.....	16,200	25.77	53,600	23.80
Biochemists and biophysicists.....	14,430	32.27	67,120	29.95
Microbiologists.....	14,110	27.49	57,190	25.21
Zoologists and wildlife biologists.....	12,880	24.57	51,100	23.72
Conservation scientists.....	13,780	25.08	52,160	24.63
Foresters.....	9,840	23.44	48,760	22.75
Epidemiologists.....	3,770	28.30	58,860	26.22
Medical scientists, except epidemiologists.....	60,830	32.38	67,360	28.47
Astronomers.....	770	40.90	85,070	42.45
Physicists.....	12,390	42.48	88,350	41.17
Atmospheric and space scientists.....	6,490	31.65	65,830	31.57
Chemists.....	82,600	28.11	58,460	25.79
Materials scientists.....	7,410	34.09	70,900	33.15
Environmental scientists and specialists, including health.....	61,660	25.23	52,490	23.46
Geoscientists, except hydrologists and geographers.....	26,090	37.73	78,480	32.91
Hydrologists.....	7,060	28.60	59,490	27.43
Economists.....	12,300	37.41	77,810	33.78
Market research analysts.....	142,190	29.65	61,670	26.28
Survey researchers.....	16,850	15.76	32,770	11.83
Clinical, counseling, and school psychologists.....	100,180	27.80	57,820	25.10
Industrial-organizational psychologists.....	1,330	34.26	71,260	30.98
Sociologists.....	3,060	28.16	58,570	26.16
Urban and regional planners.....	30,770	25.58	53,210	24.73
Anthropologists and archeologists.....	4,550	21.28	44,270	19.54
Geographers.....	700	27.26	56,690	27.33
Historians.....	2,350	21.78	45,310	20.14
Political scientists.....	4,840	38.93	80,980	39.12
Agricultural and food science technicians.....	15,990	14.87	30,920	13.81
Biological technicians.....	49,550	16.62	34,570	15.69

See footnotes at end of table.



**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Life, physical, and social science occupations <sup>3/4</sup> Continued</b>				
Chemical technicians.....	64,020	\$18.51	\$38,500	\$17.82
Geological and petroleum technicians.....	10,150	20.21	42,040	19.58
Nuclear technicians.....	6,970	28.64	59,570	28.47
Environmental science and protection technicians, including health.....	27,800	17.97	37,380	16.97
Forensic science technicians.....	8,830	21.43	44,580	20.18
Forest and conservation technicians.....	30,140	14.29	29,730	12.93
<b>Community and social services occupations</b>				
Substance abuse and behavioral disorder counselors.....	65,170	15.95	33,170	14.99
Educational, vocational, and school counselors.....	214,360	22.59	46,990	21.46
Marriage and family therapists.....	22,150	19.33	40,210	17.71
Mental health counselors.....	83,450	16.48	34,280	15.05
Rehabilitation counselors.....	115,690	14.06	29,240	12.79
Child, family, and school social workers.....	256,160	17.64	36,700	16.25
Medical and public health social workers.....	103,270	19.10	39,730	18.48
Mental health and substance abuse social workers.....	96,990	16.88	35,120	15.88
Health educators.....	42,780	19.47	40,490	18.00
Probation officers and correctional treatment specialists.....	86,810	20.00	41,600	18.64
Social and human service assistants.....	300,310	12.24	25,450	11.47
Clergy.....	38,170	17.76	36,950	16.25
Directors, religious activities and education.....	11,840	15.60	32,460	13.45
<b>Legal occupations</b>				
Lawyers.....	516,220	51.83	107,800	43.98
Administrative law judges, adjudicators, and hearing officers.....	16,850	33.46	69,590	31.81
Arbitrators, mediators, and conciliators.....	4,640	26.06	54,210	22.77
Judges, magistrate judges, and magistrates.....	24,640	42.09	87,540	46.31
Paralegals and legal assistants.....	206,700	19.57	40,710	18.23
Court reporters.....	15,370	22.26	46,310	20.31
Law clerks.....	41,550	15.88	33,030	15.27
Title examiners, abstractors, and searchers.....	47,840	18.69	38,880	16.39
<b>Education, training, and library occupations</b>				
Business teachers, postsecondary.....	68,260	( <sup>2</sup> )	62,450	( <sup>2</sup> )
Computer science teachers, postsecondary.....	34,470	( <sup>2</sup> )	56,210	( <sup>2</sup> )
Mathematical science teachers, postsecondary.....	41,880	( <sup>2</sup> )	55,510	( <sup>2</sup> )
Architecture teachers, postsecondary.....	5,270	( <sup>2</sup> )	64,300	( <sup>2</sup> )
Engineering teachers, postsecondary.....	28,990	( <sup>2</sup> )	74,630	( <sup>2</sup> )
Agricultural sciences teachers, postsecondary.....	11,260	( <sup>2</sup> )	66,780	( <sup>2</sup> )
Biological science teachers, postsecondary.....	51,780	( <sup>2</sup> )	68,880	( <sup>2</sup> )
Forestry and conservation science teachers, postsecondary.....	2,660	( <sup>2</sup> )	66,740	( <sup>2</sup> )
Atmospheric, earth, marine, and space sciences teachers, postsecondary.....	8,420	( <sup>2</sup> )	68,370	( <sup>2</sup> )
Chemistry teachers, postsecondary.....	17,100	( <sup>2</sup> )	61,820	( <sup>2</sup> )
Environmental science teachers, postsecondary.....	3,620	( <sup>2</sup> )	62,960	( <sup>2</sup> )
Physics teachers, postsecondary.....	11,870	( <sup>2</sup> )	67,430	( <sup>2</sup> )
Anthropology and archeology teachers, postsecondary.....	4,690	( <sup>2</sup> )	64,320	( <sup>2</sup> )
Area, ethnic, and cultural studies teachers, postsecondary.....	7,490	( <sup>2</sup> )	60,520	( <sup>2</sup> )
Economics teachers, postsecondary.....	11,420	( <sup>2</sup> )	70,590	( <sup>2</sup> )
Geography teachers, postsecondary.....	3,910	( <sup>2</sup> )	59,200	( <sup>2</sup> )
Political science teachers, postsecondary.....	12,320	( <sup>2</sup> )	62,880	( <sup>2</sup> )
Psychology teachers, postsecondary.....	27,250	( <sup>2</sup> )	59,180	( <sup>2</sup> )
Sociology teachers, postsecondary.....	13,990	( <sup>2</sup> )	56,830	( <sup>2</sup> )
Health specialties teachers, postsecondary.....	88,130	( <sup>2</sup> )	73,660	( <sup>2</sup> )
Nursing instructors and teachers, postsecondary.....	36,330	( <sup>2</sup> )	53,480	( <sup>2</sup> )
Education teachers, postsecondary.....	44,880	( <sup>2</sup> )	51,830	( <sup>2</sup> )
Library science teachers, postsecondary.....	4,110	( <sup>2</sup> )	53,660	( <sup>2</sup> )
Criminal justice and law enforcement teachers, postsecondary.....	9,610	( <sup>2</sup> )	49,180	( <sup>2</sup> )
Law teachers, postsecondary.....	11,470	( <sup>2</sup> )	91,420	( <sup>2</sup> )
Social work teachers, postsecondary.....	6,470	( <sup>2</sup> )	55,830	( <sup>2</sup> )
Art, drama, and music teachers, postsecondary.....	60,120	( <sup>2</sup> )	52,770	( <sup>2</sup> )
Communications teachers, postsecondary.....	20,420	( <sup>2</sup> )	52,400	( <sup>2</sup> )
English language and literature teachers, postsecondary.....	56,540	( <sup>2</sup> )	51,780	( <sup>2</sup> )
Foreign language and literature teachers, postsecondary.....	19,710	( <sup>2</sup> )	50,920	( <sup>2</sup> )
History teachers, postsecondary.....	18,110	( <sup>2</sup> )	56,550	( <sup>2</sup> )
Philosophy and religion teachers, postsecondary.....	15,890	( <sup>2</sup> )	53,600	( <sup>2</sup> )
Graduate teaching assistants.....	121,760	( <sup>2</sup> )	26,440	( <sup>2</sup> )
Home economics teachers, postsecondary.....	4,500	( <sup>2</sup> )	52,600	( <sup>2</sup> )
Recreation and fitness studies teachers, postsecondary.....	14,780	( <sup>2</sup> )	47,050	( <sup>2</sup> )
Vocational education teachers, postsecondary.....	121,090	20.80	43,270	19.10
Preschool teachers, except special education.....	368,870	10.67	22,190	9.53
Kindergarten teachers, except special education.....	162,660	( <sup>2</sup> )	42,380	( <sup>2</sup> )
Elementary school teachers, except special education.....	1,432,800	( <sup>2</sup> )	44,350	( <sup>2</sup> )

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Education, training, and library occupations <sup>3/4</sup> Continued</b>				
Middle school teachers, except special and vocational education.....	604,370	( <sup>2</sup> )	\$44,830	( <sup>2</sup> )
Vocational education teachers, middle school.....	17,430	( <sup>2</sup> )	44,930	( <sup>2</sup> )
Secondary school teachers, except special and vocational education.....	1,011,240	( <sup>2</sup> )	46,790	( <sup>2</sup> )
Vocational education teachers, secondary school.....	101,190	( <sup>2</sup> )	46,100	( <sup>2</sup> )
Special education teachers, preschool, kindergarten, and elementary school.....	207,530	( <sup>2</sup> )	45,920	( <sup>2</sup> )
Special education teachers, middle school.....	93,790	( <sup>2</sup> )	44,920	( <sup>2</sup> )
Special education teachers, secondary school.....	131,190	( <sup>2</sup> )	47,530	( <sup>2</sup> )
Adult literacy, remedial education, and GED teachers and instructors.....	62,510	20.47	42,570	18.10
Self-enrichment education teachers.....	136,680	16.15	33,590	14.34
Archivists, curators, and museum technicians.....	21,030	19.21	39,960	17.14
Librarians.....	153,330	21.89	45,520	21.22
Library technicians.....	108,940	12.29	25,570	11.65
Audio-visual collections specialists.....	8,970	16.80	34,940	15.67
Farm and home management advisors.....	12,010	20.10	41,800	19.20
Instructional coordinators.....	96,690	24.09	50,100	22.82
Teacher assistants.....	1,234,030	( <sup>2</sup> )	20,220	( <sup>2</sup> )
<b>Arts, design, entertainment, sports, and media occupations</b>				
Art directors.....	24,000	33.70	70,100	29.93
Fine artists, including painters, sculptors, and illustrators.....	9,690	20.97	43,610	17.03
Multi-media artists and animators.....	32,910	25.42	52,880	22.08
Commercial and industrial designers.....	33,390	26.41	54,920	25.16
Fashion designers.....	11,270	30.12	62,650	25.42
Floral designers.....	69,730	10.00	20,810	9.45
Graphic designers.....	151,950	19.85	41,300	17.61
Interior designers.....	46,240	21.39	44,480	19.29
Merchandise displayers and window trimmers.....	59,150	11.99	24,940	10.59
Set and exhibit designers.....	8,060	18.78	39,070	16.90
Actors.....	51,840	( <sup>2</sup> )	48,940	( <sup>2</sup> )
Producers and directors.....	54,370	( <sup>2</sup> )	64,550	( <sup>2</sup> )
Athletes and sports competitors.....	11,840	( <sup>2</sup> )	90,410	( <sup>2</sup> )
Coaches and scouts.....	105,070	( <sup>2</sup> )	33,570	( <sup>2</sup> )
Umpires, referees, and other sports officials.....	8,790	( <sup>2</sup> )	27,820	( <sup>2</sup> )
Dancers.....	15,390	12.76	26,540	9.45
Choreographers.....	14,810	17.16	35,700	14.92
Music directors and composers.....	9,000	( <sup>2</sup> )	41,450	( <sup>2</sup> )
Musicians and singers.....	50,600	( <sup>2</sup> )	51,580	( <sup>2</sup> )
Announcers.....	49,370	14.25	29,640	10.07
News analysts, reporters and correspondents.....	60,230	19.27	40,090	15.02
Public relations specialists.....	147,970	23.19	48,230	20.48
Editors.....	108,990	22.83	47,490	19.93
Technical writers.....	44,690	26.15	54,390	24.80
Writers and authors.....	43,740	24.26	50,460	20.35
Interpreters and translators.....	21,910	17.22	35,820	16.10
Audio and video equipment technicians.....	37,370	16.88	35,110	14.81
Broadcast technicians.....	32,750	16.62	34,560	13.51
Radio operators.....	2,060	15.80	32,870	14.57
Sound engineering technicians.....	11,840	22.49	46,780	18.41
Photographers.....	57,740	14.23	29,590	12.04
Camera operators, television, video, and motion picture.....	21,430	18.34	38,140	16.51
Film and video editors.....	15,100	22.32	46,420	19.52
<b>Healthcare practitioner and technical occupations</b>				
Chiropractors.....	20,210	39.72	82,630	31.72
Dentists.....	97,090	63.08	131,210	57.85
Dietitians and nutritionists.....	46,190	20.68	43,020	20.21
Optometrists.....	22,740	45.70	95,060	41.07
Pharmacists.....	215,030	37.80	78,620	38.72
Anesthesiologists.....	23,790	88.89	184,880	( <sup>3</sup> )
Family and general practitioners.....	111,990	67.13	139,640	64.11
Internists, general.....	50,140	76.99	160,130	( <sup>3</sup> )
Obstetricians and gynecologists.....	19,180	86.86	180,660	( <sup>3</sup> )
Pediatricians, general.....	26,910	68.90	143,300	64.50
Psychiatrists.....	19,530	66.97	139,300	64.41
Surgeons.....	49,730	91.48	190,280	( <sup>3</sup> )
Physician assistants.....	60,030	31.15	64,790	31.57
Podiatrists.....	7,800	51.17	106,430	45.22
Registered nurses.....	2,246,430	24.63	51,230	23.82
Audiologists.....	10,030	25.23	52,490	23.93
Occupational therapists.....	81,380	25.87	53,810	25.27

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Healthcare practitioner and technical occupations <sup>3/4</sup> Continued</b>				
Physical therapists.....	134,970	\$29.02	\$60,350	\$27.75
Radiation therapists.....	13,990	30.83	64,130	26.06
Recreational therapists.....	22,860	15.82	32,920	15.32
Respiratory therapists.....	87,180	20.07	41,750	19.79
Speech-language pathologists.....	86,640	25.10	52,210	24.06
Veterinarians.....	43,890	36.00	74,880	31.13
Medical and clinical laboratory technologists.....	146,900	21.38	44,480	20.98
Medical and clinical laboratory technicians.....	146,160	14.88	30,940	14.24
Dental hygienists.....	146,360	28.13	58,520	27.10
Cardiovascular technologists and technicians.....	43,300	18.44	38,350	17.99
Diagnostic medical sonographers.....	37,240	24.39	50,740	24.02
Nuclear medicine technologists.....	17,550	26.57	55,260	24.79
Radiologic technologists and technicians.....	173,030	20.03	41,660	19.53
Emergency medical technicians and paramedics.....	181,750	12.95	26,930	11.75
Dietetic technicians.....	26,870	11.64	24,210	10.78
Pharmacy technicians.....	211,270	11.47	23,860	10.94
Psychiatric technicians.....	56,000	13.60	28,290	12.39
Respiratory therapy technicians.....	25,470	17.11	35,590	16.75
Surgical technologists.....	73,250	15.74	32,740	15.45
Veterinary technologists and technicians.....	53,730	11.76	24,470	11.22
Licensed practical and licensed vocational nurses.....	682,590	15.97	33,210	15.57
Medical records and health information technicians.....	148,380	12.77	26,550	11.79
Opticians, dispensing.....	63,780	13.74	28,570	12.67
Orthotists and prosthetists.....	4,880	27.38	56,950	23.90
Occupational health and safety specialists and technicians.....	42,580	23.57	49,020	22.88
Athletic trainers.....	11,750	( <sup>2</sup> )	34,860	( <sup>2</sup> )
<b>Healthcare support occupations</b>				
Home health aides.....	583,880	9.22	19,180	8.77
Nursing aides, orderlies, and attendants.....	1,341,650	10.12	21,050	9.85
Psychiatric aides.....	57,770	11.48	23,880	11.01
Occupational therapist assistants.....	18,940	18.04	37,530	17.98
Occupational therapist aides.....	6,060	12.21	25,390	10.95
Physical therapist assistants.....	52,440	17.67	36,750	17.60
Physical therapist aides.....	36,870	10.71	22,270	10.08
Massage therapists.....	29,940	16.49	34,310	13.78
Dental assistants.....	272,030	13.57	28,230	13.32
Medical assistants.....	362,670	11.99	24,940	11.62
Medical equipment preparers.....	37,140	11.66	24,260	11.23
Medical transcriptionists.....	97,810	13.59	28,270	13.26
Pharmacy aides.....	61,170	9.42	19,600	8.84
Veterinary assistants and laboratory animal caretakers.....	64,490	9.28	19,310	8.66
<b>Protective service occupations</b>				
First-line supervisors/managers of correctional officers.....	33,760	23.00	47,850	21.88
First-line supervisors/managers of police and detectives.....	101,740	30.39	63,200	29.98
First-line supervisors/managers of fire fighting and prevention workers.....	59,000	28.24	58,750	27.40
Fire fighters.....	273,120	18.41	38,280	17.82
Fire inspectors and investigators.....	12,320	22.76	47,340	21.99
Forest fire inspectors and prevention specialists.....	1,460	19.72	41,010	18.31
Bailiffs.....	16,760	16.81	34,970	16.57
Correctional officers and jailers.....	417,420	16.87	35,090	15.94
Detectives and criminal investigators.....	87,480	26.17	54,440	25.19
Fish and game wardens.....	6,850	21.41	44,540	19.90
Parking enforcement workers.....	9,870	14.22	29,570	13.55
Police and sheriff's patrol officers.....	609,960	21.62	44,960	21.16
Transit and railroad police.....	5,470	22.09	45,940	21.23
Animal control workers.....	12,290	12.93	26,900	12.38
Private detectives and investigators.....	30,460	16.87	35,080	14.62
Gaming surveillance officers and gaming investigators.....	7,560	12.51	26,030	11.86
Security guards.....	964,260	10.34	21,520	9.45
Crossing guards.....	70,820	9.86	20,510	9.07
<b>Food preparation and serving related occupations</b>				
Chefs and head cooks.....	118,870	15.68	32,620	13.82
First-line supervisors/managers of food preparation and serving workers.....	694,040	12.90	26,840	11.88
Cooks, fast food.....	612,960	7.23	15,030	6.95
Cooks, institution and cafeteria.....	406,010	9.31	19,350	8.80
Cooks, restaurant.....	734,870	9.62	20,020	9.26
Cooks, short order.....	227,360	8.30	17,260	7.90
Food preparation workers.....	852,890	8.34	17,340	7.92

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Food preparation and serving related occupations <sup>3/4</sup> Continued</b>				
Bartenders.....	470,020	\$8.14	\$16,930	\$7.23
Combined food preparation and serving workers, including fast food.....	2,047,100	7.34	15,260	7.00
Counter attendants, cafeteria, food concession, and coffee shop.....	461,700	7.76	16,140	7.38
Waiters and waitresses.....	2,125,100	7.58	15,780	6.78
Food servers, nonrestaurant.....	194,260	8.28	17,220	7.65
Dining room and cafeteria attendants and bartender helpers.....	393,500	7.38	15,350	7.01
Dishwashers.....	492,620	7.45	15,490	7.21
Hosts and hostesses, restaurant, lounge, and coffee shop.....	294,300	7.77	16,170	7.40
<b>Building and grounds cleaning and maintenance occupations</b>				
First-line supervisors/managers of housekeeping and janitorial workers.....	203,770	14.90	31,000	13.78
First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers.....	95,450	17.71	36,840	16.23
Janitors and cleaners, except maids and housekeeping cleaners.....	2,064,350	9.77	20,320	8.85
Maids and housekeeping cleaners.....	896,370	8.42	17,520	7.98
Pest control workers.....	58,500	12.75	26,510	12.01
Landscaping and groundskeeping workers.....	819,780	10.39	21,610	9.59
Pesticide handlers, sprayers, and applicators, vegetation.....	23,450	12.60	26,210	12.25
Tree trimmers and pruners.....	40,710	13.11	27,270	12.32
<b>Personal care and service occupations</b>				
Gaming supervisors.....	26,280	19.64	40,860	19.31
Slot key persons.....	15,000	11.98	24,930	11.13
First-line supervisors/managers of personal service workers.....	110,630	15.67	32,590	14.18
Animal trainers.....	6,990	12.65	26,310	10.75
Nonfarm animal caretakers.....	85,440	9.08	18,890	8.26
Gaming dealers.....	76,120	7.86	16,350	6.83
Gaming and sports book writers and runners.....	15,820	10.04	20,880	9.05
Motion picture projectionists.....	10,450	9.98	20,750	8.24
Ushers, lobby attendants, and ticket takers.....	109,290	7.94	16,520	7.07
Amusement and recreation attendants.....	236,070	7.89	16,400	7.23
Costume attendants.....	3,400	13.80	28,700	12.22
Locker room, coatroom, and dressing room attendants.....	21,420	8.60	17,890	8.25
Embalmers.....	7,630	17.48	36,360	16.51
Funeral attendants.....	28,120	9.66	20,090	8.91
Barbers.....	17,570	11.16	23,210	9.73
Hairdressers, hairstylists, and cosmetologists.....	335,860	10.49	21,810	8.99
Makeup artists, theatrical and performance.....	720	16.68	34,700	14.09
Manicurists and pedicurists.....	32,670	9.21	19,150	8.52
Shampooers.....	15,300	7.27	15,120	6.90
Skin care specialists.....	16,820	12.65	26,310	11.08
Baggage porters and bellhops.....	55,880	10.53	21,900	8.51
Concierges.....	16,710	11.31	23,520	10.48
Tour guides and escorts.....	27,390	9.71	20,190	9.04
Travel guides.....	5,450	15.17	31,540	13.24
Flight attendants.....	107,100	( <sup>2</sup> )	47,670	( <sup>2</sup> )
Transportation attendants, except flight attendants and baggage porters.....	28,580	9.99	20,770	9.05
Child care workers.....	469,150	8.37	17,400	7.90
Personal and home care aides.....	487,200	8.18	17,020	7.91
Fitness trainers and aerobics instructors.....	177,790	14.71	30,590	11.78
Recreation workers.....	265,640	10.12	21,040	8.94
Residential advisors.....	49,650	10.89	22,650	10.06
<b>Sales and related occupations</b>				
First-line supervisors/managers of retail sales workers.....	1,175,310	17.10	35,560	14.75
First-line supervisors/managers of non-retail sales workers.....	327,180	32.46	67,520	26.78
Cashiers.....	3,462,010	8.14	16,940	7.58
Gaming change persons and booth cashiers.....	30,760	9.84	20,470	9.63
Counter and rental clerks.....	442,310	9.95	20,690	8.48
Parts salespersons.....	236,090	13.04	27,120	11.78
Retail salespersons.....	3,992,930	10.70	22,260	8.70
Advertising sales agents.....	141,340	23.26	48,390	18.58
Insurance sales agents.....	277,120	25.85	53,770	19.25
Securities, commodities, and financial services sales agents.....	245,280	40.94	85,150	29.10
Travel agents.....	103,840	14.00	29,110	13.05
Sales representatives, wholesale and manufacturing, technical and scientific products.....	390,080	31.42	65,360	27.46
Sales representatives, wholesale and manufacturing, except technical and scientific products.....	1,421,660	25.23	52,480	21.09

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Sales and related occupations <sup>3/4</sup> Continued</b>				
Demonstrators and product promoters.....	95,300	\$12.07	\$25,110	\$9.74
Models.....	1,560	14.89	30,980	11.67
Real estate brokers.....	40,590	33.62	69,920	23.91
Real estate sales agents.....	123,490	21.61	44,950	15.68
Sales engineers.....	73,200	34.85	72,490	32.59
Telemarketers.....	404,150	10.86	22,590	9.55
Door-to-door sales workers, news and street vendors, and related workers.....	21,600	13.97	29,050	11.67
<b>Office and administrative support occupations</b>				
First-line supervisors/managers of office and administrative support workers.....	1,412,470	20.46	42,550	18.99
Switchboard operators, including answering service.....	217,700	10.69	22,230	10.27
Telephone operators.....	45,310	14.31	29,770	13.48
Bill and account collectors.....	417,100	13.74	28,580	12.98
Billing and posting clerks and machine operators.....	487,420	13.13	27,310	12.64
Bookkeeping, accounting, and auditing clerks.....	1,750,680	13.93	28,980	13.35
Gaming cage workers.....	18,370	10.94	22,760	10.61
Payroll and timekeeping clerks.....	194,330	14.75	30,670	14.22
Procurement clerks.....	72,820	14.79	30,770	14.49
Tellers.....	538,890	10.07	20,940	9.94
Brokerage clerks.....	75,380	17.46	36,310	16.39
Correspondence clerks.....	27,460	13.49	28,050	12.88
Court, municipal, and license clerks.....	100,310	14.15	29,430	13.20
Credit authorizers, checkers, and clerks.....	73,860	14.22	29,580	13.08
Customer service representatives.....	1,902,850	13.73	28,560	12.74
Eligibility interviewers, government programs.....	89,410	16.23	33,750	15.87
File clerks.....	249,270	10.43	21,690	9.84
Hotel, motel, and resort desk clerks.....	180,410	8.77	18,240	8.39
Interviewers, except eligibility and loan.....	190,160	11.44	23,790	10.86
Library assistants, clerical.....	109,900	10.23	21,280	9.58
Loan interviewers and clerks.....	179,080	14.34	29,830	13.62
New accounts clerks.....	105,300	13.17	27,400	12.47
Order clerks.....	303,320	12.77	26,560	12.05
Human resources assistants, except payroll and timekeeping.....	165,760	15.44	32,120	14.93
Receptionists and information clerks.....	1,058,790	10.65	22,150	10.25
Reservation and transportation ticket agents and travel clerks.....	165,990	14.00	29,130	12.60
Cargo and freight agents.....	61,770	16.29	33,880	15.38
Couriers and messengers.....	118,210	10.00	20,790	9.39
Police, fire, and ambulance dispatchers.....	89,620	14.27	29,690	13.60
Dispatchers, except police, fire, and ambulance.....	161,790	15.80	32,870	14.61
Meter readers, utilities.....	51,790	14.67	30,510	13.80
Postal service clerks.....	78,520	18.83	39,170	19.13
Postal service mail carriers.....	344,580	18.87	39,240	19.05
Postal service mail sorters, processors, and processing machine operators.....	224,250	17.79	37,010	18.78
Production, planning, and expediting clerks.....	277,030	17.32	36,030	16.74
Shipping, receiving, and traffic clerks.....	767,470	12.11	25,200	11.38
Stock clerks and order fillers.....	1,576,620	10.33	21,490	9.38
Weighers, measurers, checkers, and samplers, recordkeeping.....	77,770	13.07	27,180	11.80
Executive secretaries and administrative assistants.....	1,418,640	17.22	35,810	16.39
Legal secretaries.....	264,080	17.87	37,170	17.15
Medical secretaries.....	349,370	13.08	27,210	12.50
Secretaries, except legal, medical, and executive.....	1,845,860	12.76	26,540	12.22
Computer operators.....	160,170	15.32	31,870	14.41
Data entry keyers.....	339,010	11.34	23,590	10.86
Word processors and typists.....	191,180	13.65	28,400	13.05
Desktop publishers.....	33,590	16.15	33,590	15.19
Insurance claims and policy processing clerks.....	239,580	14.33	29,800	13.71
Mail clerks and mail machine operators, except postal service.....	152,360	10.91	22,700	10.47
Office clerks, general.....	2,926,160	11.43	23,780	10.80
Office machine operators, except computer.....	90,470	11.42	23,760	10.68
Proofreaders and copy markers.....	24,700	12.76	26,550	11.77
Statistical assistants.....	20,970	15.11	31,430	14.37
<b>Farming, fishing, and forestry occupations</b>				
First-line supervisors/managers of farming, fishing, and forestry workers.....	20,620	18.14	37,730	16.76
Farm labor contractors.....	3,340	10.29	21,390	7.79
Agricultural inspectors.....	13,670	15.09	31,390	13.83
Animal breeders.....	1,750	14.25	29,640	12.02
Graders and sorters, agricultural products.....	51,210	8.53	17,740	7.78
Agricultural equipment operators.....	21,330	9.47	19,690	8.59
Farmworkers and laborers, crop, nursery, and greenhouse.....	233,450	8.02	16,670	7.43

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Farming, fishing, and forestry occupations <sup>3/4</sup> Continued</b>				
Farmworkers, farm and ranch animals.....	42,890	\$8.84	\$18,390	\$8.12
Forest and conservation workers.....	9,170	11.24	23,380	9.58
Fallers.....	9,620	15.31	31,850	13.46
Logging equipment operators.....	28,190	13.52	28,130	13.00
Log graders and scalers.....	4,900	13.94	28,990	13.01
<b>Construction and extraction occupations</b>				
First-line supervisors/managers of construction trades and extraction workers.....	516,540	25.06	52,130	23.43
Boilermakers.....	20,270	20.92	43,510	20.79
Brickmasons and blockmasons.....	107,900	20.36	42,350	19.98
Stonemasons.....	13,710	17.36	36,110	16.35
Carpenters.....	852,080	17.75	36,920	16.47
Carpet installers.....	37,720	17.00	35,360	15.82
Floor layers, except carpet, wood, and hard tiles.....	15,070	17.19	35,760	16.75
Floor sanders and finishers.....	6,700	14.14	29,420	13.08
Tile and marble setters.....	36,900	17.95	37,340	17.12
Cement masons and concrete finishers.....	180,540	16.23	33,760	14.80
Terrazzo workers and finishers.....	6,140	14.64	30,460	13.32
Construction laborers.....	837,650	13.64	28,380	11.86
Paving, surfacing, and tamping equipment operators.....	57,980	15.86	32,980	14.06
Pile-driver operators.....	4,390	22.72	47,260	23.16
Operating engineers and other construction equipment operators.....	343,640	18.39	38,260	16.84
Drywall and ceiling tile installers.....	111,970	17.56	36,530	16.19
Tapers.....	33,540	19.33	40,200	18.81
Electricians.....	584,010	21.20	44,090	20.04
Glaziers.....	46,230	17.16	35,690	15.53
Insulation workers.....	52,170	15.83	32,940	14.04
Painters, construction and maintenance.....	247,880	15.36	31,960	14.12
Paperhangers.....	8,910	16.45	34,220	15.40
Pipelayers.....	51,940	15.38	32,000	13.73
Plumbers, pipefitters, and steamfitters.....	433,600	20.89	43,450	19.69
Plasterers and stucco masons.....	53,530	17.17	35,720	15.90
Reinforcing iron and rebar workers.....	30,250	18.91	39,330	16.80
Roofers.....	118,390	15.78	32,820	14.43
Sheet metal workers.....	189,590	18.16	37,780	16.83
Structural iron and steel workers.....	70,420	20.49	42,610	19.58
Helpers--brickmasons, blockmasons, stonemasons, and tile and marble setters.....	59,890	12.99	27,010	11.64
Helpers--carpenters.....	98,180	10.93	22,740	10.37
Helpers--electricians.....	93,520	12.01	24,980	11.27
Helpers--painters, paperhangers, plasterers, and stucco masons.....	29,130	10.97	22,820	9.81
Helpers--pipelayers, plumbers, pipefitters, and steamfitters.....	77,580	11.50	23,920	10.77
Helpers--roofers.....	21,490	10.64	22,140	9.96
Construction and building inspectors.....	79,720	21.36	44,430	20.50
Elevator installers and repairers.....	21,470	26.86	55,860	26.90
Fence erectors.....	22,550	12.18	25,340	10.85
Hazardous materials removal workers.....	36,590	17.30	35,970	15.72
Highway maintenance workers.....	140,450	14.21	29,550	13.77
Rail-track laying and maintenance equipment operators.....	11,170	16.91	35,170	17.29
Septic tank servicers and sewer pipe cleaners.....	16,310	14.26	29,670	13.45
Segmental pavers.....	1,710	14.30	29,740	12.76
Derrick operators, oil and gas.....	15,080	15.58	32,400	14.69
Rotary drill operators, oil and gas.....	14,830	17.99	37,420	16.78
Service unit operators, oil, gas, and mining.....	12,640	15.93	33,140	14.41
Earth drillers, except oil and gas.....	19,970	16.46	34,230	15.65
Explosives workers, ordnance handling experts, and blasters.....	5,140	17.52	36,450	16.97
Continuous mining machine operators.....	7,610	17.18	35,730	17.17
Mine cutting and channeling machine operators.....	4,460	17.49	36,370	17.56
Rock splitters, quarry.....	3,240	13.76	28,620	12.88
Roof bolters, mining.....	3,980	18.49	38,460	18.54
Roustabouts, oil and gas.....	32,720	11.84	24,640	10.70
Helpers--extraction workers.....	28,860	13.21	27,480	12.63
<b>Installation, maintenance, and repair occupations</b>				
First-line supervisors/managers of mechanics, installers, and repairers.....	445,520	24.53	51,020	23.37
Computer, automated teller, and office machine repairers.....	144,370	16.98	35,310	16.24
Radio mechanics.....	6,890	18.80	39,100	17.82
Telecommunications equipment installers and repairers, except line installers.....	195,500	22.31	46,400	23.19
Avionics technicians.....	21,420	20.98	43,630	20.73
Electric motor, power tool, and related repairers.....	26,070	16.19	33,660	15.53
Electrical and electronics installers and repairers, transportation equipment.....	17,370	18.91	39,330	18.89
Electrical and electronics repairers, commercial and industrial equipment.....	83,820	19.96	41,520	20.29

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Installation, maintenance, and repair occupations <sup>3/4</sup> Continued</b>				
Electrical and electronics repairers, powerhouse, substation, and relay.....	20,700	\$24.28	\$50,500	\$25.02
Electronic equipment installers and repairers, motor vehicles.....	14,590	13.64	28,360	12.64
Electronic home entertainment equipment installers and repairers.....	33,340	14.10	29,330	13.14
Security and fire alarm systems installers.....	46,850	16.81	34,960	16.00
Aircraft mechanics and service technicians.....	117,180	21.37	44,460	20.94
Automotive body and related repairers.....	173,590	17.19	35,760	15.93
Automotive glass installers and repairers.....	18,550	13.61	28,320	13.06
Automotive service technicians and mechanics.....	690,780	16.02	33,320	14.97
Bus and truck mechanics and diesel engine specialists.....	248,450	17.27	35,930	16.81
Farm equipment mechanics.....	33,310	13.58	28,240	13.21
Mobile heavy equipment mechanics, except engines.....	115,090	18.07	37,590	17.69
Rail car repairers.....	15,810	18.52	38,530	19.04
Motorboat mechanics.....	18,890	14.63	30,420	14.02
Motorcycle mechanics.....	13,690	14.06	29,250	13.29
Outdoor power equipment and other small engine mechanics.....	24,740	12.46	25,920	11.93
Bicycle repairers.....	6,870	9.99	20,780	9.63
Recreational vehicle service technicians.....	12,520	13.83	28,770	13.11
Tire repairers and changers.....	82,340	10.72	22,300	10.02
Mechanical door repairers.....	10,860	15.75	32,760	14.24
Control and valve installers and repairers, except mechanical door.....	37,840	20.34	42,310	20.45
Heating, air conditioning, and refrigeration mechanics and installers.....	212,200	17.69	36,790	16.90
Home appliance repairers.....	37,510	15.17	31,550	14.37
Industrial machinery mechanics.....	192,300	19.06	39,640	18.48
Maintenance and repair workers, general.....	1,230,880	15.05	31,300	14.33
Maintenance workers, machinery.....	89,160	16.41	34,130	15.86
Millwrights.....	64,910	20.74	43,150	20.38
Refractory materials repairers, except brickmasons.....	3,390	18.29	38,030	17.74
Electrical power-line installers and repairers.....	95,190	22.82	47,460	23.54
Telecommunications line installers and repairers.....	148,060	19.02	39,560	19.01
Camera and photographic equipment repairers.....	4,640	15.81	32,890	15.01
Medical equipment repairers.....	23,500	18.91	39,330	18.25
Musical instrument repairers and tuners.....	5,550	16.10	33,490	13.89
Watch repairers.....	3,700	14.68	30,540	13.16
Coin, vending, and amusement machine servicers and repairers.....	35,370	13.77	28,650	13.36
Commercial divers.....	2,690	18.27	38,000	16.48
Fabric menders, except garment.....	1,720	14.14	29,410	12.70
Locksmiths and safe repairers.....	19,340	14.68	30,540	13.83
Manufactured building and mobile home installers.....	13,160	11.65	24,230	11.23
Riggers.....	12,550	17.07	35,510	16.25
Signal and track switch repairers.....	8,680	21.32	44,350	21.01
Helpers--installation, maintenance, and repair workers.....	148,890	11.25	23,400	10.21
<b>Production occupations</b>				
First-line supervisors/managers of production and operating workers.....	705,270	22.45	46,690	21.02
Aircraft structure, surfaces, rigging, and systems assemblers.....	26,150	18.23	37,920	18.60
Coil winders, tapers, and finishers.....	33,590	12.17	25,320	11.48
Electrical and electronic equipment assemblers.....	245,700	12.20	25,380	11.28
Electromechanical equipment assemblers.....	54,690	13.09	27,230	12.52
Engine and other machine assemblers.....	50,410	16.31	33,920	15.58
Structural metal fabricators and fitters.....	85,330	14.60	30,380	13.94
Fiberglass laminators and fabricators.....	31,820	12.30	25,580	11.87
Team assemblers.....	1,138,100	12.10	25,160	11.14
Timing device assemblers, adjusters, and calibrators.....	5,280	13.55	28,180	12.79
Bakers.....	157,110	10.86	22,600	10.09
Butchers and meat cutters.....	132,370	13.07	27,180	12.30
Meat, poultry, and fish cutters and trimmers.....	150,440	9.17	19,060	8.69
Slaughterers and meat packers.....	122,490	9.94	20,680	9.82
Food and tobacco roasting, baking, and drying machine operators and tenders.....	17,800	12.79	26,600	11.89
Food batchmakers.....	74,650	11.24	23,390	10.53
Food cooking machine operators and tenders.....	34,480	10.99	22,860	10.31
Computer-controlled machine tool operators, metal and plastic.....	126,150	14.74	30,650	14.14
Numerical tool and process control programmers.....	17,820	19.24	40,020	18.43
Extruding and drawing machine setters, operators, and tenders, metal and plastic.....	93,600	13.08	27,210	12.72
Forging machine setters, operators, and tenders, metal and plastic.....	41,230	14.28	29,700	13.10
Rolling machine setters, operators, and tenders, metal and plastic.....	42,090	14.44	30,040	13.88
Cutting, punching, and press machine setters, operators, and tenders, metal and plastic.....	260,560	12.70	26,410	12.12
Drilling and boring machine tool setters, operators, and tenders, metal and plastic.....	48,730	14.22	29,570	13.29
Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic.....	97,660	13.83	28,770	12.80
Lathe and turning machine tool setters, operators, and tenders, metal and plastic.....	70,300	15.04	31,290	14.57

See footnotes at end of table.



**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Production occupations <sup>3/4</sup> Continued</b>				
Milling and planing machine setters, operators, and tenders, metal and plastic.....	28,580	\$14.91	\$31,020	\$14.48
Machinists.....	368,740	16.30	33,900	15.91
Metal-refining furnace operators and tenders.....	17,810	15.65	32,550	15.24
Pourers and casters, metal.....	12,770	14.33	29,810	13.64
Model makers, metal and plastic.....	7,900	20.98	43,630	20.90
Patternmakers, metal and plastic.....	6,090	18.19	37,830	17.45
Foundry mold and coremakers.....	20,770	14.01	29,130	13.05
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic.....	144,140	12.36	25,720	11.51
Multiple machine tool setters, operators, and tenders, metal and plastic.....	100,320	15.20	31,620	13.97
Tool and die makers.....	104,210	21.10	43,900	20.67
Welders, cutters, solderers, and brazers.....	354,300	15.06	31,330	14.25
Welding, soldering, and brazing machine setters, operators, and tenders.....	53,750	15.18	31,580	13.99
Heat treating equipment setters, operators, and tenders, metal and plastic.....	27,290	14.39	29,930	13.63
Lay-out workers, metal and plastic.....	12,540	16.08	33,450	15.37
Plating and coating machine setters, operators, and tenders, metal and plastic.....	40,800	13.00	27,030	12.34
Tool grinders, filers, and sharpeners.....	22,320	15.02	31,250	14.22
Bindery workers.....	81,840	11.81	24,570	10.82
Bookbinders.....	6,550	14.74	30,660	13.87
Job printers.....	54,790	15.65	32,560	14.83
Prepress technicians and workers.....	82,970	15.95	33,170	15.22
Printing machine operators.....	189,900	14.93	31,050	14.11
Laundry and dry-cleaning workers.....	217,820	8.64	17,960	8.14
Pressers, textile, garment, and related materials.....	87,500	8.61	17,900	8.27
Sewing machine operators.....	265,200	9.12	18,960	8.51
Shoe and leather workers and repairers.....	8,090	9.98	20,750	9.40
Shoe machine operators and tenders.....	6,020	10.24	21,300	9.89
Sewers, hand.....	18,790	9.57	19,900	8.65
Tailors, dressmakers, and custom sewers.....	32,150	11.62	24,170	10.51
Textile bleaching and dyeing machine operators and tenders.....	24,280	10.56	21,960	10.30
Textile cutting machine setters, operators, and tenders.....	32,170	10.47	21,770	9.87
Textile knitting and weaving machine setters, operators, and tenders.....	47,720	11.42	23,740	11.37
Textile winding, twisting, and drawing out machine setters, operators, and tenders.....	60,550	11.08	23,040	10.62
Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers.....	26,700	13.68	28,460	13.55
Fabric and apparel patternmakers.....	10,310	16.30	33,910	13.72
Upholsterers.....	39,660	12.97	26,980	12.18
Cabinetmakers and bench carpenters.....	126,350	12.56	26,120	11.81
Furniture finishers.....	28,770	11.82	24,590	11.13
Model makers, wood.....	3,820	14.19	29,520	12.24
Patternmakers, wood.....	3,470	14.93	31,060	14.25
Sawing machine setters, operators, and tenders, wood.....	55,130	11.12	23,130	10.65
Woodworking machine setters, operators, and tenders, except sawing.....	89,410	11.28	23,470	10.76
Nuclear power reactor operators.....	3,710	29.99	62,380	29.72
Power distributors and dispatchers.....	10,270	26.73	55,590	26.45
Power plant operators.....	33,250	24.15	50,220	24.45
Stationary engineers and boiler operators.....	48,880	21.32	44,340	20.87
Water and liquid waste treatment plant and system operators.....	95,870	16.89	35,130	16.30
Chemical plant and system operators.....	56,270	21.10	43,880	21.18
Gas plant operators.....	11,180	23.53	48,940	23.45
Petroleum pump system operators, refinery operators, and gaugers.....	40,980	22.97	47,780	24.02
Chemical equipment operators and tenders.....	59,720	18.75	39,000	18.62
Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders.....	37,360	15.99	33,260	15.25
Crushing, grinding, and polishing machine setters, operators, and tenders.....	43,320	13.57	28,230	12.96
Grinding and polishing workers, hand.....	43,910	12.03	25,030	11.10
Mixing and blending machine setters, operators, and tenders.....	106,610	13.94	28,990	13.43
Cutters and trimmers, hand.....	30,110	12.01	24,980	10.79
Cutting and slicing machine setters, operators, and tenders.....	70,960	13.06	27,170	12.53
Extruding, forming, pressing, and compacting machine setters, operators, and tenders..	73,990	13.84	28,780	13.05
Furnace, kiln, oven, drier, and kettle operators and tenders.....	30,320	14.63	30,430	13.95
Inspectors, testers, sorters, samplers, and weighers.....	497,300	14.65	30,470	13.34
Jewelers and precious stone and metal workers.....	30,360	14.48	30,120	13.06
Dental laboratory technicians.....	45,480	15.40	32,030	14.10
Medical appliance technicians.....	11,270	14.82	30,820	13.41
Ophthalmic laboratory technicians.....	30,300	11.42	23,760	10.67
Packaging and filling machine operators and tenders.....	400,680	11.40	23,700	10.45
Coating, painting, and spraying machine setters, operators, and tenders.....	93,110	13.06	27,160	12.37
Painters, transportation equipment.....	46,600	17.56	36,520	16.39
Painting, coating, and decorating workers.....	29,590	11.36	23,640	10.41

See footnotes at end of table.

**Table 1. National employment and wage data from the Occupational Employment Statistics survey by occupation, May 2003<sup>3/4</sup>**  
**Continued**

Occupation	Employment	Mean wages		Median hourly wages
		Hourly	Annual <sup>1</sup>	
<b>Production occupations <sup>3/4</sup> Continued</b>				
Photographic process workers.....	27,170	\$11.19	\$23,280	\$9.79
Photographic processing machine operators.....	54,750	10.14	21,100	9.11
Semiconductor processors.....	50,160	14.14	29,410	13.29
Cementing and gluing machine operators and tenders.....	25,390	11.98	24,920	11.24
Cleaning, washing, and metal pickling equipment operators and tenders.....	17,590	11.99	24,950	11.07
Cooling and freezing equipment operators and tenders.....	7,920	11.46	23,830	10.31
Etchers and engravers.....	8,800	11.94	24,840	10.69
Molders, shapers, and casters, except metal and plastic.....	37,600	12.70	26,420	11.91
Paper goods machine setters, operators, and tenders.....	109,600	14.29	29,720	13.91
Tire builders.....	14,830	17.59	36,590	19.01
Helpers--production workers.....	452,700	10.09	20,980	9.42
<b>Transportation and material moving occupations</b>				
Aircraft cargo handling supervisors.....	9,440	19.63	40,830	17.64
First-line supervisors/managers of helpers, laborers, and material movers, hand.....	154,750	19.19	39,920	18.16
First-line supervisors/managers of transportation and material-moving machine and vehicle operators.....	214,030	22.58	46,960	21.08
Airline pilots, copilots, and flight engineers.....	79,770	( <sup>2</sup> )	129,880	( <sup>2</sup> )
Commercial pilots.....	19,980	( <sup>2</sup> )	57,950	( <sup>2</sup> )
Air traffic controllers.....	23,040	44.83	93,240	46.28
Airfield operations specialists.....	5,660	20.85	43,380	18.79
Ambulance drivers and attendants, except emergency medical technicians.....	17,650	9.73	20,230	9.14
Bus drivers, transit and intercity.....	194,400	14.98	31,160	14.29
Bus drivers, school.....	467,840	11.05	22,990	10.86
Driver/sales workers.....	380,120	11.38	23,660	9.79
Truck drivers, heavy and tractor-trailer.....	1,528,630	16.51	34,330	16.01
Truck drivers, light or delivery services.....	943,840	12.76	26,530	11.58
Taxi drivers and chauffeurs.....	131,570	10.22	21,260	9.14
Locomotive engineers.....	30,450	24.60	51,160	22.11
Locomotive firers.....	680	21.67	45,080	22.75
Rail yard engineers, dinkey operators, and hostlers.....	5,680	19.30	40,140	18.01
Railroad brake, signal, and switch operators.....	13,850	23.10	48,040	21.59
Railroad conductors and yardmasters.....	34,720	24.36	50,670	21.31
Subway and streetcar operators.....	9,880	22.13	46,020	22.97
Sailors and marine oilers.....	27,570	15.36	31,950	14.44
Captains, mates, and pilots of water vessels.....	24,040	25.50	53,050	24.51
Motorboat operators.....	3,680	14.71	30,590	12.51
Ship engineers.....	8,900	26.39	54,900	26.01
Bridge and lock tenders.....	3,270	16.93	35,220	17.97
Parking lot attendants.....	113,490	8.50	17,670	8.00
Service station attendants.....	96,250	8.71	18,110	8.11
Traffic technicians.....	6,460	16.85	35,040	16.15
Transportation inspectors.....	27,890	23.67	49,240	23.84
Conveyor operators and tenders.....	58,780	12.56	26,120	11.87
Crane and tower operators.....	47,420	18.73	38,950	17.86
Dredge operators.....	3,030	14.17	29,470	13.37
Excavating and loading machine and dragline operators.....	68,740	16.59	34,520	15.46
Loading machine operators, underground mining.....	3,560	15.64	32,530	15.46
Hoist and winch operators.....	8,560	17.78	36,990	15.40
Industrial truck and tractor operators.....	604,350	13.46	27,990	12.68
Cleaners of vehicles and equipment.....	320,840	9.15	19,030	8.27
Laborers and freight, stock, and material movers, hand.....	2,255,780	10.41	21,650	9.58
Machine feeders and offbearers.....	159,160	11.27	23,430	10.57
Packers and packagers, hand.....	901,890	8.85	18,410	8.14
Gas compressor and gas pumping station operators.....	6,190	21.20	44,100	20.97
Pump operators, except wellhead pumpers.....	12,260	18.60	38,680	18.00
Wellhead pumpers.....	8,560	15.73	32,720	14.89
Refuse and recyclable material collectors.....	138,480	12.51	26,030	11.56
Shuttle car operators.....	3,040	18.17	37,800	18.79
Tank car, truck, and ship loaders.....	16,210	17.13	35,630	15.90

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

<sup>2</sup> Hourly wage rates for occupations where workers typically work fewer than 2,080 hours per year are not available.

<sup>3</sup> Represents a wage above \$70.00 per hour.