# When It Comes To Pay, Does Location Matter? 

When it comes to pay, does it matter where you work? Do metropolitan workers receive higher wages than their nonmetropolitan counterparts? National Compensation Survey data provide some interesting answers.

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TThe National Compensation Survey ${ }^{1}$ (NCS) provides data on occupational earnings, rates of change in compensation costs, the availability of benefits, and detailed benefit provisions. The survey provides local, regional, and national estimates, as well as wage data for metropolitan and nonmetropolitan areas. Nationwide, workers in metropolitan areas earned an average of $\$ 15.73$ per hour in 1997, while their counterparts in nonmetropolitan areas earned an average of $\$ 11.84$ per hour. (See table 1.)

The NCS program collects data in 154 areas, ${ }^{2}$ although data are not published for all areas separately. ${ }^{3}$ Of these areas, 81 are metropolitan and 73 are nonmetropolitan areas.

NCS uses the U.S. Office of Management and Budget's area definitions, which include:

- Metropolitan Statistical Areas (MSAs), areas with a central city of 50,000 or more inhabitants and a total area population of at least 100,000 . An MSA usually consists of one or more counties with close economic and social ties, as defined by commuting patterns and population density.
- Primary Metropolitan Statistical Areas (PMSAs), a large urbanized county or cluster of counties that demonstrate very strong
internal economic and social links, with a population of 250,000 to 999,999 people.
- Consolidated Metropolitan Statistical Areas (CMSAs), large, integrated areas of 1 million people or more consisting of two or more contiguous PMSAs. There are 18 CMSAs in the United States.
- Nonmetropolitan areas, areas of population that consist of individual counties or parishes that are not included in any of the above areas.

This article highlights 1997 NCS estimates of occupational pay in metropolitan and nonmetropolitan areas. It examines average hourly pay for workers by worker, establishment, and geographic characteristics and by selected occupations. While the article considers many factors in comparing pay in metropolitan and nonmetropolitan areas, it does not look at the interactions of these factors or at any differences in the occupational mix between geographic areas.

The 1997 NCS covered 16,046 establishments chosen to represent 335,300 establishments employing nearly 67 million workers, 83.7 percent of whom worked in metropolitan areas, with the remaining 16.3 percent working in nonmetropolitan areas. ${ }^{4}$

TABLE 1. Mean hourly earnings and weekly hours worked in metropolitan and nonmetropolitan areas, by selected worker and establishment characteristics, National Compensation Survey, August 1997

| Worker and establishment characteristics and geographic areas | Total |  |  | Metropolitan areas ${ }^{1}$ |  |  | Nonmetropolitan areas ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of workers ${ }^{3}$ | Mean ${ }^{2}$ |  | Number of workers ${ }^{3}$ | Mean ${ }^{2}$ |  | Number of workers ${ }^{3}$ | Mean ${ }^{2}$ |  |
|  |  | Hourly earnings | Weekly hours worked |  | Hourly earnings | Weekly hours worked |  | Hourly earnings | Weekly hours worked |
| Total | 66,970,200 | \$15.09 | 36.5 | 56,056,300 | \$15.73 | 36.3 | 10,913,900 | \$11.84 | 37.1 |
| Private industry | 52,053,400 | 14.39 | 36.4 | 44,040,800 | 15.06 | 36.3 | 8,012,600 | 10.84 | 37.2 |
| State and local government ........................... | 14,916,900 | 17.82 | 36.5 | 12,015,600 | 18.46 | 36.5 | 2,901,300 | 15.07 | 36.5 |
| Worker characteristic: |  |  |  |  |  |  |  |  |  |
| White collar | 35,582,800 | 18.59 | 36.7 | 31,176,000 | 19.07 | 36.6 | 4,406,800 | 15.15 | 37.0 |
| Professional specialty and technical | 13,598,200 | 22.89 | 36.3 | 11,858,700 | 23.34 | 36.3 | 1,739,500 | 19.63 | 36.5 |
| Executive, administrative, and managerial | 5,682,700 | 27.00 | 40.1 | 5,143,700 | 27.40 | 40.1 | 539,100 | 23.15 | 39.7 |
| Sales .................................................. | 4,810,400 | 12.78 | 33.0 | 4,099,500 | 13.55 | 32.6 | 710,900 | 8.72 | 35.3 |
| Administrative support | 11,491,400 | 11.53 | 36.9 | 10,074,100 | 11.73 | 36.9 | 1,417,400 | 10.10 | 37.4 |
| Blue collar | 18,852,100 | 12.36 | 38.3 | 14,963,600 | 12.78 | 38.2 | 3,888,400 | 10.74 | 38.8 |
| Precision production, craft, and repair | 5,332,100 | 15.86 | 39.8 | 4,366,700 | 16.44 | 39.7 | 965,400 | 13.27 | 39.9 |
| Machine operators, assemblers, and inspectors .. | 6,018,000 | 11.03 | 39.6 | 4,430,400 | 11.39 | 39.6 | 1,587,500 | 10.04 | 39.7 |
| Transportation and material moving .................... | 2,629,700 | 13.24 | 37.5 | 2,252,800 | 13.46 | 37.6 | 376,900 | 11.85 | 36.7 |
| Handlers, equipment cleaners, helpers, and laborers | 4,872,300 | 9.34 | 35.5 | 3,913,700 | 9.48 | 35.1 | 958,600 | 8.81 | 37.0 |
| Service .. | 12,535,400 | 9.09 | 33.0 | 9,916,700 | 9.40 | 32.6 | 2,618,700 | 8.00 | 34.5 |
| Full time ${ }^{4}$ | 55,141,300 | 15.77 | 39.6 | 45,770,800 | 16.51 | 39.6 | 9,370,500 | 12.15 | 39.7 |
| Part time ${ }^{4}$ | 11,829,000 | 8.89 | 21.0 | 10,285,500 | 9.01 | 21.1 | 1,543,400 | 8.09 | 20.6 |
| Union | 15,256,500 | 16.91 | 36.9 | 13,289,800 | 17.32 | 36.7 | 1,966,700 | 14.20 | 38.1 |
| Nonunion | 51,713,700 | 14.56 | 36.3 | 42,766,600 | 15.25 | 36.2 | 8,947,200 | 11.32 | 36.8 |
| Time ${ }^{5}$ | 64,759,800 | 15.05 | 36.4 | 54,081,300 | 15.69 | 36.3 | 10,678,400 | 11.87 | 37.0 |
| Incentive ${ }^{5}$ | 2,210,500 | 16.21 | 38.3 | 1,975,000 | 16.87 | 38.2 | 235,500 | 10.74 | 38.8 |
| Establishment characteristic:6 |  |  |  |  |  |  |  |  |  |
| Goods producing | 15,997,200 | 15.45 | 39.8 | 12,526,200 | 16.40 | 39.8 | 3,471,000 | 12.06 | 39.9 |
| Service producing .............................................. | 36,056,200 | 13.85 | 34.9 | 31,514,500 | 14.44 | 34.9 | 4,541,700 | 9.77 | 35.2 |
| Establishment size: 7 |  |  |  |  |  |  |  |  |  |
| 50-99 | 11,149,100 | 12.52 | 35.3 | 9,142,900 | 13.02 | 35.3 | 2,006,200 | 10.23 | 35.3 |
| 100-499 | 25,141,100 | 13.68 | 36.2 | 20,538,600 | 14.10 | 36.1 | 4,602,500 | 11.78 | 36.5 |
| 500-999 | 8,816,800 | 16.15 | 37.4 | 6,984,600 | 16.65 | 37.2 | 1,832,200 | 14.29 | 38.2 |
| 1000-2499 | 10,117,900 | 15.54 | 36.7 | 7,812,200 | 17.03 | 36.0 | 2,305,700 | 10.91 | 38.6 |
| 2500 or more | 11,745,300 | 19.32 | 37.2 | 11,578,000 | 19.34 | 37.2 | 167,300 | 18.23 | 39.3 |
| Geographic areas:8 |  |  |  |  |  |  |  |  |  |
| New England ..... | 3,217,600 | 16.96 | 35.1 | 2,799,900 | 17.42 | 35.2 | 417,700 | 13.75 | 34.0 |
| Middle Atlantic | 10,364,000 | 17.42 | 35.7 | 9,749,200 | 17.75 | 35.7 | 614,700 | 12.22 | 36.1 |
| East North Central | 12,243,100 | 15.45 | 36.2 | 10,347,800 | 15.90 | 36.2 | 1,895,300 | 12.98 | 36.4 |
| West North Central | 5,118,000 | 14.44 | 36.3 | 3,730,900 | 15.40 | 36.3 | 1,387,100 | 11.82 | 36.2 |
| South Atlantic | 11,953,400 | 13.73 | 37.0 | 9,948,400 | 14.17 | 36.9 | 2,005,000 | 11.56 | 37.4 |
| East South Central | 5,046,800 | 11.88 | 37.8 | 2,546,200 | 13.60 | 37.0 | 2,500,500 | 10.22 | 38.7 |
| West South Central | 6,694,400 | 13.82 | 37.2 | 5,752,800 | 14.13 | 37.2 | 941,600 | 11.88 | 37.3 |
| Mountain | 3,559,800 | 14.04 | 36.5 | 2,845,800 | 14.17 | 36.4 | 714,000 | 13.51 | 36.6 |
| Pacific | 8,773,100 | 16.88 | 36.2 | 8,335,200 | 17.06 | 36.2 | 437,900 | 13.37 | 36.1 |

1 A metropolitan area can be a Metropolitan Statistical Area (MSA), a Primary Metropolitan Statistical Area (PMSA), or a Consolidated Metropolitan Statistical Area (CMSA), as defined by the Office of Management and Budget, 1994. Nonmetropolitan areas are counties that do not fit the definitions above.

2 Earnings are the straight-time hourly wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, and holidays; nonproduction bonuses; and tips. Mean hourly earnings are computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. Mean weekly hours worked are computed by totaling the hours worked by all workers and dividing by the number of workers.
3 Estimates of the number of workers provide a description of size and composition of the labor force included in the survey. However, estimates are not intended for comparison with other statistical series to measure employment trends or levels.
4 Employees are classified as working either a full- or part-time schedule
based on the definition used by each establishment.
Wages of time workers are based solely on an hourly rate or salary; incentive workers are those whose wages are at least partially based on productivity payments such as piece rates, commissions, and production bonuses.
6 Classification of establishments into goods- and service-producing industries applies to private industry only.

Establishment size is determined by the number of workers. Establishments classified with 50 to 99 workers may contain establishments with fewer than 50 workers due to reduction in staff between the time of sampling and data collection.

8 For a complete breakout of the census divisions, see "Appendix E: Census Division and Survey Areas," National Compensation Survey: Occupational Wages in the United States, 1997, Bulletin 2519 (Bureau of Labor Statistics, September, 1999). This appendix lists the 9 census divisions, the States included in each division, and the 149 metropolitan and nonmetropolitan areas surveyed.

TABLE 2. Percent and number of workers by selected characteristics, National Compensation Survey, 1997

| Characteristic | Total |  | Metropolitan |  | Nonmetropolitan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent | Number | Percent |
| Total workers ...................................... | 66,970,235 | 100.0 | 56,056,315 | 83.7 | 10,913,920 | 16.3 |
| Private industry . | 52,053,375 | 77.8 | 44,040,751 | 65.8 | 8,012,623 | 12.0 |
| State and local government ............... | 14,916,840 | 22.3 | 12,015,564 | 18.0 | 2,901,296 | 4.3 |
| Worker characteristic: |  |  |  |  |  |  |
| White collar ........................................ | 35,582,750 | 53.2 | 31,175,959 | 46.6 | 4,406,791 | 6.6 |
| Blue collar .......................................... | 18,852,080 | 28.2 | 14,963,635 | 22.4 | 3,888,445 | 5.8 |
| Service .............................................. | 12,535,405 | 18.8 | 9,916,722 | 14.8 | 2,618,683 | 4.0 |
| Census division: |  |  |  |  |  |  |
| New England ...................................... | 3,217,612 | 4.8 | 2,799,926 | 4.2 | 417,686 | 0.6 |
| Middle Atlantic .................................... | 10,363,969 | 15.5 | 9,749,240 | 14.6 | 614,729 | . 9 |
| West South Central .............................. | 6,694,424 | 10.0 | 5,752,782 | 8.6 | 941,642 | 1.4 |
| East South Central ............................... | 5,046,758 | 7.5 | 2,546,221 | 3.8 | 2,500,537 | 3.7 |
| South Atlantic ..................................... | 11,953,396 | 17.8 | 9,948,433 | 14.9 | 2,004,963 | 3.0 |
| West North Central ................................ | 4,109,340 | 6.1 | 2,722,197 | 4.1 | 1,387,143 | 2.1 |
| East North Central ............................... | 13,251,782 | 19.8 | 11,356,470 | 17.0 | 1,895,313 | 2.8 |
| Pacific ............................................... | 8,773,132 | 13.1 | 8,335,227 | 12.4 | 437,906 | . 7 |
| Mountain ............................................ | 3,559,821 | 5.3 | 2,845,819 | 4.2 | 714,002 | 1.1 |

NOTE: Because of rounding, sum of individual items may not equal totals.
(See table 2.) Private industry workers in metropolitan areas (who constituted 66 percent of all workers) earned $\$ 15.06$ per hour, on average; their nonmetropolitan counterparts ( 12 percent of all workers) averaged $\$ 10.84$ an hour. State and local government workers in metropolitan areas ( 18 percent of all workers) earned an average $\$ 18.46$ per hour, while their nonmetropolitan counterparts (4 percent of all workers) earned \$15.07.

## Worker characteristics

The NCS classifies data on workers into three broad occupational categories: White collar, blue collar, and service. Data are further categorized into full or part time, union or nonunion, and time or incentive. ${ }^{5}$

Workers in white-collar occupations received higher average hourly earnings than did those in blue-collar and service occupations. (See chart 1.) In metropolitan areas, wages of workers in all three occupational classifications were higher than those of their counterparts in nonmetropolitan areas. White-collar workers in metropolitan areas, who made up nearly 47 percent of the total workforce, averaged \$19.07 per hour, while their counterparts in

CHART 1. Mean hourly earnings by selected worker characteristics in metropolitan and nonmetropolitan areas, National Compensation Survey, 1997

nonmetropolitan areas made up nearly 7 percent of the total workforce and averaged $\$ 15.15$ per hour. Blue-collar workers in metropolitan areas (22 percent of the total work force) averaged $\$ 12.78$ per hour, compared with $\$ 10.74$ per hour for workers in nonmetropolitan areas ( 6 percent of
the total work force). Service workers in metropolitan areas ( 15 percent of the workforce) averaged $\$ 9.40$ an hour, compared with $\$ 8$ per hour for workers in nonmetropolitan areas (4 percent of the workforce). Among occupational groups, service occupations had the smallest difference between
metropolitan and nonmetropolitan area pay.

Pay in metropolitan areas for fulland part-time, union, nonunion, time, and incentive workers was higher than that for their counterparts in nonmetropolitan areas. In metropolitan areas, full-time workers made up 68 percent of the total workforce and averaged $\$ 16.51$ per hour; their counterparts in nonmetropolitan areas (14 percent) averaged $\$ 12.15$. Part-time employees, on average, were paid higher wages in metropolitan areas than in nonmetropolitan areas, \$9.01 and $\$ 8.09$, respectively. One reason is that part-time employees in State and local governments made nearly $\$ 4$ an hour more ( $\$ 12.27$ ) than their counterparts in private industry (\$8.37). ${ }^{6}$ Out of nearly 15 million State and local government workers, 81 percent were in metropolitan areas. Union workers' average hourly earnings were higher in metropolitan areas (\$17.32) than in nonmetropolitan areas (\$14.20). Nonunion workers, who made less than their union counterparts, averaged $\$ 15.25$ an hour in metropolitan areas and $\$ 11.32$ in nonmetropolitan areas. Time workers in metropolitan areas averaged $\$ 15.69$ an hour, and their counterparts in nonmetropolitan areas averaged $\$ 11.87$. Workers receiving incentive pay averaged $\$ 16.87$ an hour in metropolitan areas and $\$ 10.74$ in nonmetropolitan areas.

## Establishment characteristics

Data for private sector employees are classified into two broad industry groupings-goods producing and service producing. Workers in goods-producing industries made up 31 percent of private industry workers, while the remaining 69 percent were in serviceproducing industries. (Data for State and local governments are not categorized by goods- and service-producing industries.) Average hourly rates for private sector workers in goods-producing industries in metropolitan (\$16.40) and nonmetropolitan (\$12.06) areas were higher than those for workers in service-producing industries (\$14.44 and \$9.77, respectively).

In metropolitan areas, as the establishment size increased, so did the earnings, except for establishments employing 500 to 999 workers and 1,000 to 2,499 workers; the differences in the estimates for these two establishment sizes were not statistically significant. ${ }^{7}$ When pay is compared by establishment size, establishments with 50 to 99 workers had the lowest average hourly pay rates in both metropolitan (\$13.02) and nonmetropolitan (\$10.23) areas. Establishments employing 2,500 workers or more had the highest average pay rates in both metropolitan (\$19.34) and nonmetropolitan (\$18.23) areas.

When it comes to measuring change in pay or comparing wages, a well-used tool is the Employment Cost Index (ECI). ${ }^{8}$ The ECI measures the change in the cost of labor, free from the influence of employment shifts among occupations and industries. The December 1997 ECI for total compensation for private industry workers by bargaining status, region, and area showed that, since 1989, when the index equaled 100, pay for workers in metropolitan areas increased 35.1 percent, compared with a 35.3-percent increase for workers in nonmetropolitan areas. For the 5 -year period 1994 through 1998, the ECI for metropolitan and nonmetropolitan areas showed differences no larger than 0.4 percent between the two types of areas. Based on ECI historical data, there were no significant changes that might have affected the pay between metropolitan and nonmetropolitan workers.

## Geographic characteristics

One could ask, "For pay purposes, does it matter where I work?" Of course the answer would be yes, if you were comparing New York and Iowa. This section examines average earnings in various geographic areas.

The NCS provides occupational pay data for nine census divisions: New England, Middle Atlantic, East North Central, West North Central, South Atlantic, East South Central, West South Central, Mountain, and Pacific. ${ }^{9}$ Pay in metropolitan and nonmetro-
politan areas varied among the census divisions. (See charts 2 through 4.) For metropolitan areas, the Middle Atlantic, New England, and Pacific census divisions had the highest average hourly earnings; the East South Central division had the lowest average hourly earnings for both metropolitan and nonmetropolitan areas.

Overall, average hourly pay in metropolitan areas in the nine census divisions ranged from $\$ 13.60$ (East South Central) to $\$ 17.75$ (Middle Atlantic). In nonmetropolitan areas, it ranged from $\$ 10.22$ (East South Central) to $\$ 13.75$ (New England). On average, in all nine census regions, white-collar workers were paid more than bluecollar workers and blue-collar workers were paid more than service workers. Within these groups, metropolitan workers earned more than their nonmetropolitan counterparts.

NCS data also provide a view of average hourly earnings nationally (metropolitan and nonmetropolitan areas combined). Within white-collar occupations, the highest paid occupation in both metropolitan and nonmetropolitan areas generally was airplane pilots and navigators, for which pay ranged from $\$ 53.85$ to $\$ 85.98$ per hour. ${ }^{10}$ In contrast, the lowest paid white-collar occupations generally were sales clerks and cashiers, at around $\$ 7$ per hour. Within blue-collar occupations, supervisors of electricians and power transmission installers generally were the highest paid workers in both metropolitan and nonmetropolitan areas, with pay ranging from around $\$ 23$ to $\$ 29$ per hour. Laundry and dry cleaning machine operators generally made the least, at roughly $\$ 6$ to $\$ 7$ an hour. In service occupations, supervisors of police and detectives generally had the highest average wage ( $\$ 17$ to $\$ 29$ an hour), and waiters and waitresses had the lowest ( $\$ 3$ to $\$ 4.50$ an hour) in both metropolitan and nonmetropolitan areas.

## Selected occupations

Other populous occupations also offered insight into geographic wage differences. For example, data on pay
for registered nurses was available for all the metropolitan areas and most of the nonmetropolitan areas. (See chart 2.) Registered nurses in metropolitan areas averaged hourly wages roughly $\$ 2$ to $\$ 3$ higher than those of their counterparts in nonmetropolitan areas. This pay differential between metropolitan and nonmetropolitan areas was smallest in the Mountain division, $\$ 1.50$. In metropolitan areas, average hourly pay was the highest in the Pacific (\$23.51) and the Middle Atlantic (\$23.17) census divisions, and the lowest in the East South Central (\$17.50) and West North Central (\$18.14) divisions.

Secretaries in metropolitan areas were paid $\$ 1.55$ to $\$ 3.45$ an hour more than those in nonmetropolitan areas, except in the South Atlantic division, where secretaries in nonmetropolitan areas averaged higher hourly wages
than did those in metropolitan areas (\$12.56 and \$12.26, respectively). (See chart 3.) In metropolitan areas, secretarial pay was highest in the New England and Middle Atlantic divisions (both averaging \$14.58 an hour) and in the Pacific division (\$14.22) and lowest in the East South Central division (\$11.35). In nonmetropolitan areas, the New England division had the highest average pay at $\$ 13.03$ an hour and the West South Central division, the lowest (\$8.99).

Within the census divisions, average hourly pay for janitors and cleaners was roughly the same in both metropolitan and nonmetropolitan areas. (See chart 4.) For example, in the Middle Atlantic division, hourly pay averaged $\$ 10.30$ (the highest rate) for workers in metropolitan areas, compared with $\$ 8.71$ for their nometro-
politan counterparts. In contrast, in the West South Central division, janitors and cleaners in metropolitan areas earned less than did their nonmetropolitan counterparts, $\$ 6.67$ (the lowest rate) compared to $\$ 7.07$.

## Conclusion

When it comes to pay, location matters. ${ }^{11}$ Overall, pay in metropolitan areas was higher than pay in nonmetropolitan areas. Among the census divisions, the Middle Atlantic and New England divisions had the highest pay for workers in metropolitan areas, while the East South Central had the lowest pay for such workers. In nonmetropolitan areas, workers in the New England division again had the highest average hourly pay, while their counterparts in the East South Central division again had the lowest.


Chart 3. Mean hourly earnings for secretaries in metropolitan and nonmetropolitan areas, National Compensation Survey, 1997


Chart 4. Mean hourly earnings for janitors and cleaners in metropolitan and nonmetropolitan areas, National Compensation Survey, 1997


[^0]cal series to measure employment trends or levels.
${ }^{5}$ Each establishment defines which workers are full or part time. Union workers are classified as such when they meet the following conditions: (1) a labor organization is recognized as the bargaining agent for all workers in the occupation; (2) wage and salary rates are determined through collective bargaining or negotiations; and (3) settlement terms, which must include earnings provisions and may include benefit provisions, are embodied in a signed, mutually binding collective bargaining agreement. Time-based workers are employees whose earnings are tied to an hourly rate or salary, and not to a specific level of production. Incentive workers are employees whose earnings are tied, at least in part, to commissions, piece rates, production bonuses, or other incentives based on production or sales.
${ }^{6}$ See National Compensation Survey, table 1-1.
${ }^{7}$ For detailed information on data reliability, see Appendix A of the National Compensation Survey.
${ }^{8}$ For detailed information on the Employment Cost Index, see Appendix A of Employment Cost Indexes, 1975-98, Bulletin 2514 (Bureau of Labor Statistics, August 1999).
${ }^{9}$ For a complete breakout of the census divisions, see "Appendix E: Census Division and Survey Areas," National Compensation Survey. This appendix lists the nine census divisions, the States included in each division, and the 149 metropoli$\tan$ and nonmetropolitan areas surveyed.
${ }^{10}$ For complete breakout of data, see National Compensation Survey, table 8-2.
${ }^{11}$ For a comprehensive analysis of interarea comparisons of compensation and prices, see $R e$ port on the American Workforce (U.S. Department of Labor, 1997), chap. 2.

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[^0]:    ${ }^{1}$ Information on procedures and concepts of the National Compensation Survey can be found in Appendixes A through E of the National Compensation Survey: Occupational Wages in the United States, 1997, Bulletin 2519 (Bureau of Labor Statistics, September 1999).
    ${ }^{2}$ In the 1997 National Compensation Survey, only 149 areas were included. Since then, five areas have been added (two in Hawaii and three in Alaska).
    ${ }^{3}$ Data for some areas were not published because they were unavailable or represented too small a number of establishments. Also, the sample may have been reduced due to refusals and nonresponse.
    ${ }^{4}$ Estimates of the number of workers provide a description of size and composition of the labor force included in the survey. However, estimates are not intended for comparison with other statisti-

