

# Houston-Galveston-Brazoria, TX National Compensation Survey January 1999

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# Preface

Data shown in this bulletin were collected as part of the Bureau of Labor Statistics' (BLS) National Compensation Survey (NCS). The survey could not have been conducted without the cooperation of the many private firms and government jurisdictions that provided pay data included in this bulletin. The Bureau thanks these respondents for their cooperation.

Field economists of the Bureau of Labor Statistics collected and reviewed the survey data. The Office of Compensation and Working Conditions, in cooperation with the Office of Field Operations and the Office of Technology and Survey Processing in the BLS National Office, designed the survey, processed the data, and prepared the survey for publication.

For additional information regarding this survey, please contact any BLS regional office at the address and telephone number listed on the inside back cover of this bulletin. You may also write to the Bureau of Labor Statistics at: Division of Compensation Data Analysis and Planning,

2 Massachusetts Avenue, NE, Room 4175, Washington, DC 20212-0001, or call (202) 606-6199, or send e-mail to [ocltinfo@bls.gov](mailto:ocltinfo@bls.gov).

The data contained in this bulletin are also available at <http://stats.bls.gov/comhome.htm>, the BLS Internet site. Data are in three formats: An ASCII file containing the published table formats; an ASCII file containing positional columns of data for manipulation as a data base or spreadsheet; and a Portable Document Format (PDF) file containing the entire bulletin.

Results of earlier surveys of this area are also available from BLS regional offices, the Division of Compensation Data Analysis, or at the BLS Internet site.

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# Introduction

The tables in this bulletin summarize the NCS survey results for the Houston-Galveston-Brazoria, TX metropolitan area. Tabulations provide information on earnings of workers in a variety of occupations and at a wide range of work levels. Also contained in this bulletin are information on the program, a technical note describing survey procedures, and several appendixes with detailed information on occupational classifications and the generic leveling methodology.

## NCS products

The National Compensation Survey of the Bureau of Labor Statistics provides data on the occupational wages and employee benefits for localities, broad geographic regions, and the Nation as a whole. The Employment Cost Index, a quarterly measure of the change in employer costs for wages and benefits, will be derived from the NCS. Another product, Employer Costs for Employee Compensation, measures employers' average hourly costs for total compensation, that is, wages and benefits. Still another NCS product measures the incidence of benefit plans and their provisions. This bulletin is limited to data on occupational wages and salaries.

## About the tables

The tables that follow present data on straight-time occupational earnings. Straight-time earnings include wages and salaries, incentive pay, cost-of-living adjustments, and hazard pay. These earnings exclude premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. A total of 480 detailed occupations are used to describe all occupations in the civilian nonfarm economy (excluding the Federal Government and private households).

Table A-1 presents straight-time earnings for detailed occupations. Data are not shown for any occupations if they would raise concerns about the confidentiality of the survey respondent or if the data are insufficient to support reliable estimates. The earnings shown include the mean for each occupation, as well as earnings for selected percentiles in each occupation.

Table A-2 compares the type of data and details shown in table A-1 for the private industry and State and local

government sector.

Table A-3 compares the type of data and details shown in table A-1 for full-time and part-time workers. The definitions of full-time and part-time workers are those used in the surveyed establishments.

Table A-4 presents the weekly and annual straight-time earnings for full-time employees in specific occupations across all industries. For the weekly and annual earnings, the mean and median earnings and the mean hours are shown. The mean hours reflect hours employees are scheduled to work, excluding overtime hours.

Table B-1 presents mean straight-time hourly earnings for groups of occupations and for levels of job requirements related to occupations in the group. Separate data are also shown for private industry and government workers, and for full-time and part-time workers in all industries. (See appendix C, Generic Leveling Criteria, for more information on job ranking in this survey. Average work levels for published occupation groups and their component occupations are presented in appendix table 3.)

Table B-2 also presents mean straight-time hourly earnings, but for detailed occupations at several levels of job requirements for each detailed occupation.

Table C-1 presents mean straight-time hourly earnings for occupation groups and selected occupation characteristics. The occupation characteristics include full-time and part-time status, union and nonunion status, and time or incentive pay status. Union workers' wages are determined through collective bargaining. Time workers' wages are based solely on hourly rate or salary. Incentive workers' wages are at least partially based on productivity payments such as piece rates, commissions and production bonuses.

Table C-2 presents mean straight-time hourly earnings for occupation groups and industry division of employers; these are limited to the private sector.

Table C-3 presents mean straight-time hourly earnings for occupation groups and the employment size of employers; these are also limited to the private sector.

Table C-4 presents the employment scope of this survey. The occupation employment estimates shown relate to all employers in the area surveyed, not just the surveyed employers.

**Table A-1. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>3</sup>	All industries					
	Mean	Percentiles				
		10	25	Median 50	75	90
<b>All occupations</b> .....	\$17.37	\$6.37	\$9.00	\$14.21	\$21.96	\$31.45
All occupations excluding sales .....	17.45	6.45	9.25	14.42	22.10	31.60
<b>White-collar occupations</b> .....	21.50	8.50	11.64	18.29	27.16	38.08
White-collar occupations excluding sales .....	22.27	9.32	12.52	19.13	27.88	38.95
Professional specialty and technical occupations .....	26.46	14.00	18.52	23.84	30.53	41.06
Professional specialty occupations .....	27.92	16.90	20.22	25.63	32.12	42.68
Engineers, architects, and surveyors .....	33.16	19.62	25.48	31.41	40.02	47.85
Petroleum engineers .....	45.53	31.53	39.45	43.99	50.40	59.99
Chemical engineers .....	34.85	25.87	28.08	32.89	38.94	48.08
Civil engineers .....	36.44	21.38	29.49	38.16	43.45	48.18
Electrical and electronic engineers .....	31.01	24.82	27.97	29.33	33.53	45.96
Industrial engineers .....	30.32	22.84	24.80	29.74	33.05	47.69
Mechanical engineers .....	28.30	15.60	20.94	25.48	37.59	42.69
Engineers, N.E.C. ....	32.96	20.94	25.40	31.22	38.93	47.31
Mathematical and computer scientists .....	28.60	20.10	22.45	26.98	32.21	37.62
Computer systems analysts and scientists .....	28.67	20.10	22.45	27.11	32.21	37.62
Natural scientists .....	27.95	12.86	15.20	24.96	34.62	54.81
Geologists and geodesists .....	36.13	20.76	26.53	32.37	44.57	64.04
Medical scientists .....	17.99	11.87	12.51	13.73	15.53	20.51
Health related occupations .....	22.81	16.72	18.77	21.22	25.00	29.16
Registered nurses .....	21.32	16.40	18.50	20.85	23.79	26.44
Pharmacists .....	28.33	23.77	27.37	28.85	29.54	31.29
Respiratory therapists .....	17.68	15.00	15.45	17.30	17.58	22.90
Teachers, college and university .....	44.25	20.26	28.39	41.71	54.92	63.91
Teachers, post secondary N.E.C. ....	28.73	14.82	18.93	27.00	34.73	43.47
Teachers, except college and university .....	24.23	18.24	20.39	24.39	27.81	31.59
Elementary school teachers .....	24.22	19.25	20.66	24.06	27.01	30.19
Secondary school teachers .....	24.59	19.30	20.46	24.49	28.35	31.92
Teachers, N.E.C. ....	24.51	14.50	19.54	24.75	29.53	33.69
Vocational and educational counselors .....	26.39	14.66	22.21	27.59	32.90	32.90
Librarians, archivists, and curators .....	18.80	11.71	14.23	17.77	23.60	29.55
Librarians .....	18.80	11.71	14.23	17.77	23.60	29.55
Social scientists and urban planners .....	31.53	16.30	26.01	30.84	33.65	51.92
Social, recreation, and religious workers .....	15.02	11.50	12.35	13.94	17.48	20.71
Social workers .....	14.92	11.53	12.36	13.94	17.40	19.07
Lawyers and judges .....	37.85	20.97	26.08	29.33	43.27	68.99
Lawyers .....	37.99	20.97	29.33	29.33	43.27	68.27
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	24.57	7.78	16.90	21.91	28.27	42.68
Designers .....	19.97	6.97	7.78	18.67	27.95	37.00
Professional occupations, N.E.C. ....	27.49	15.33	19.12	24.77	33.65	45.67
Technical occupations .....	21.11	11.09	13.36	17.00	22.44	30.65
Clinical laboratory technologists and technicians .....	15.61	7.13	11.88	16.71	19.18	23.31
Radiological technicians .....	17.87	11.40	12.21	16.14	20.28	26.65
Licensed practical nurses .....	13.51	11.13	12.24	13.31	14.54	15.74
Health technologists and technicians, N.E.C. ....	14.07	8.54	11.05	14.62	16.50	18.20
Electrical and electronic technicians .....	18.96	11.60	13.23	22.15	23.62	24.70
Engineering technicians, N.E.C. ....	20.01	15.09	15.69	18.51	24.05	30.29
Drafters .....	25.64	16.01	19.54	24.50	32.08	35.96
Chemical technicians .....	22.22	14.33	21.25	23.12	25.03	26.01
Computer programmers .....	20.69	14.90	17.07	19.10	24.33	29.93
Legal assistants .....	19.30	17.29	17.29	20.01	20.26	22.79
Technical and related occupations, N.E.C. ....	16.81	11.14	11.29	16.88	19.54	22.37
Executive, administrative, and managerial occupations ...	31.00	16.59	20.19	28.16	38.85	49.19
Executives, administrators, and managers .....	34.29	18.12	24.21	31.63	41.02	51.97
Administrators and officials, public administration .....	26.65	14.29	21.09	25.66	33.26	36.13
Financial managers .....	34.12	18.99	23.04	33.23	40.91	49.68
Personnel and labor relations managers .....	38.71	25.00	25.34	41.59	42.74	68.17
Purchasing managers .....	35.15	25.00	25.97	30.29	48.74	51.46
Managers, marketing, advertising and public relations .....	42.27	28.61	32.39	40.12	53.41	61.77
Administrators, education and related fields .....	31.70	22.07	28.36	30.29	34.62	38.14
Managers, medicine and health .....	25.22	17.30	17.30	29.26	29.72	32.16

See footnotes at end of table.

**Table A-1. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean	Percentiles				
		10	25	Median 50	75	90
<b>White-collar occupations</b> (-Continued)						
Executive, administrative, and managerial occupations (-Continued)						
Executives, administrators, and managers (-Continued)						
Managers, food servicing and lodging establishments .....	\$29.69	\$11.50	\$14.08	\$18.12	\$40.87	\$72.12
Managers and administrators, N.E.C. ....	36.60	18.85	24.67	34.62	43.13	60.10
Management related occupations .....	25.97	16.25	17.97	22.51	30.29	42.67
Accountants and auditors .....	23.34	16.68	17.51	21.05	26.25	33.53
Other financial officers .....	29.64	14.70	19.51	26.78	39.19	44.29
Management analysts .....	27.69	15.14	24.04	27.88	30.45	38.57
Personnel, training, and labor relations specialists .....						
Purchasing agents and buyers, N.E.C. ....	22.99	16.28	16.28	20.31	29.13	35.10
Management related occupations, N.E.C. ....	25.26	16.17	17.96	21.10	27.69	44.12
Sales occupations .....	16.31	5.75	7.29	11.25	20.15	28.65
Supervisors, sales occupations .....	22.86	9.85	14.42	18.84	26.92	41.43
Securities and financial services sales occupations .....						
Advertising and related sales occupations .....	19.27	10.21	12.50	16.45	23.49	33.61
Sales occupations, other business services .....	19.33	8.77	14.66	18.14	27.43	28.36
Sales representatives, mining, manufacturing, and wholesale .....						
Sales workers, motor vehicles and boats .....	19.77	6.02	8.86	11.17	25.01	46.90
Sales workers, parts .....	19.15	15.73	16.12	20.52	21.51	22.04
Sales workers, other commodities .....	11.49	6.00	6.25	8.93	12.38	21.28
Sales counter clerks .....	8.92	5.64	7.00	9.00	10.90	12.89
Cashiers .....	6.91	5.15	5.50	6.84	7.86	9.24
Sales support occupations, N.E.C. ....	12.29	5.75	10.59	11.30	12.77	22.64
Administrative support occupations, including clerical .....	12.16	7.78	9.27	11.37	14.33	17.72
Supervisors, general office .....	13.95	11.67	12.00	12.80	15.17	18.19
Supervisors, distribution, scheduling, and adjusting clerks .....						
Computer operators .....	14.44	8.40	10.87	13.59	19.30	19.30
Secretaries .....	14.27	10.00	11.34	14.04	16.28	19.30
Transportation ticket and reservation agents .....	11.67	6.74	7.62	10.68	16.21	17.72
Receptionists .....	8.93	6.25	7.50	9.00	10.50	10.86
Information clerks, N.E.C. ....	11.39	8.50	10.00	10.00	12.09	16.41
Order clerks .....	12.91	7.00	10.42	12.94	14.42	16.20
Personnel clerks except payroll and timekeeping .....	11.81	7.50	9.75	10.01	15.13	15.13
Library clerks .....	8.59	6.26	8.14	8.46	8.87	11.13
Records clerks, N.E.C. ....	11.46	8.00	10.00	10.90	13.38	15.78
Bookkeepers, accounting and auditing clerks .....	11.45	8.00	9.87	11.13	12.74	14.70
Billing clerks .....	12.54	9.06	10.50	11.54	13.09	19.58
Mail clerks except postal service .....	9.11	7.00	7.84	8.64	9.66	13.02
Dispatchers .....	13.57	7.80	9.58	12.10	15.82	19.82
Production coordinators .....	15.30	10.92	11.50	15.29	18.01	20.80
Traffic, shipping and receiving clerks .....	10.24	6.80	7.26	9.00	13.35	15.24
Stock and inventory clerks .....	9.95	7.00	7.69	9.41	11.68	14.05
Material recording, scheduling, and distribution clerks, N.E.C. ....						
Insurance adjusters, examiners, and investigators .....	13.24	9.30	11.35	13.04	14.78	16.50
Investigators and adjusters except insurance .....	14.37	8.93	10.25	12.59	18.02	21.88
Bill and account collectors .....	9.93	6.25	6.69	10.04	11.83	13.94
General office clerks .....	11.35	7.56	8.71	10.51	13.50	16.16
Bank tellers .....	9.53	8.06	8.54	9.23	10.27	11.14
Data entry keyers .....	9.93	6.50	8.00	9.00	11.57	14.52
Teachers' aides .....	9.94	7.85	8.08	9.64	11.45	12.68
Administrative support occupations, N.E.C. ....	12.54	8.62	9.98	12.24	14.16	16.54
<b>Blue-collar occupations</b> .....						
Precision production, craft, and repair occupations .....	17.19	9.69	12.35	16.45	21.77	23.73
Supervisors, mechanics and repairers .....	22.32	14.42	16.46	19.57	29.24	32.64

See footnotes at end of table.

**Table A-1. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean	Percentiles				
		10	25	Median 50	75	90
<b>Blue-collar occupations (-Continued)</b>						
Precision production, craft, and repair occupations (-Continued)						
Automobile mechanics .....	\$19.27	\$9.91	\$12.83	\$16.30	\$23.27	\$35.46
Bus, truck, and stationary engine mechanics .....	15.86	12.17	13.50	16.00	16.57	22.89
Industrial machinery repairers .....	15.79	10.70	13.28	15.18	17.50	22.48
Mechanics and repairers, N.E.C. ....	16.14	10.75	11.91	15.00	20.65	23.66
Supervisors, construction trades, N.E.C. ....	17.68	14.58	15.50	17.98	19.85	21.48
Carpenters .....	15.51	12.71	14.00	15.23	17.40	18.15
Electricians .....	18.44	14.07	15.89	18.00	21.00	22.71
Painters, construction and maintenance .....	11.85	10.39	10.54	11.23	12.80	14.70
Plumbers, pipefitters and steamfitters .....	16.81	10.50	14.94	16.24	18.50	23.12
Insulation workers .....	11.98	9.00	9.75	11.00	13.00	15.58
Construction trades, N.E.C. ....	9.74	7.25	7.25	8.00	10.12	15.36
Supervisors, production occupations .....	24.00	12.27	16.83	23.20	31.68	34.18
Machinists .....	18.36	14.90	16.40	17.23	22.48	22.59
Electrical and electronic equipment assemblers ..	10.34	6.77	7.89	10.41	12.56	13.70
Butchers and meat cutters .....	11.47	8.49	9.35	11.35	12.96	14.43
Inspectors, testers, and graders .....	15.89	9.06	15.06	16.94	18.03	20.56
Miscellaneous plant and system operators, N.E.C. ....	23.16	20.57	21.98	23.22	23.73	26.01
Machine operators, assemblers, and inspectors .....	11.00	6.00	7.38	10.75	13.58	16.64
Punching and stamping press operators .....	9.39	6.23	6.60	10.13	11.12	13.76
Numerical control machine operators .....	14.88	9.70	12.98	15.74	16.61	20.13
Printing press operators .....	12.28	8.81	9.82	12.65	16.00	17.02
Laundry and dry cleaning machine operators .....	7.30	6.15	6.81	7.11	7.63	9.48
Miscellaneous machine operators, N.E.C. ....	12.38	7.22	10.45	10.92	13.80	19.76
Welders and cutters .....	12.74	11.17	11.17	11.84	13.91	15.73
Assemblers .....	8.89	5.52	6.44	8.41	9.37	14.99
Production inspectors, checkers and examiners ..	13.03	7.51	9.35	13.65	16.64	17.43
Transportation and material moving occupations .....	12.48	7.14	8.76	11.40	15.77	18.93
Truck drivers .....	12.23	8.00	9.74	11.00	14.70	18.49
Bus drivers .....	12.96	7.85	11.10	13.71	14.83	16.55
Industrial truck and tractor equipment operators ..	8.91	7.00	7.37	8.13	10.50	11.40
Miscellaneous material moving equipment operators, N.E.C. ....	14.52	10.03	10.62	13.25	21.20	21.20
Handlers, equipment cleaners, helpers, and laborers .....	8.57	5.45	6.17	7.71	10.09	12.76
Groundskeepers and gardeners except farm .....	8.91	6.23	7.23	8.19	10.00	12.71
Helpers, mechanics and repairers .....	10.93	6.00	6.89	10.62	12.00	16.55
Helpers, construction trades .....	9.96	7.25	8.29	10.09	10.90	12.16
Construction laborers .....	8.26	5.72	6.50	8.00	9.20	12.00
Production helpers .....	9.82	6.67	7.76	8.86	10.82	16.14
Stock handlers and baggers .....	7.24	5.15	5.25	6.27	8.00	11.26
Freight, stock, and material handlers, N.E.C. ....	8.40	5.35	6.00	7.02	9.55	15.18
Vehicle washers and equipment cleaners .....	8.42	5.58	6.21	7.67	10.85	12.69
Hand packers and packagers .....	7.19	5.15	5.50	6.42	8.05	10.00
Laborers except construction, N.E.C. ....	8.82	6.00	6.17	7.14	10.24	15.25
<b>Service occupations</b> .....	8.98	5.15	5.68	7.46	10.72	16.08
Protective service occupations .....	13.54	7.00	9.88	13.28	16.90	19.48
Firefighting occupations .....	14.96	12.58	13.93	15.07	16.88	16.88
Police and detectives, public service .....	18.24	15.28	16.08	18.23	19.76	22.07
Sheriffs, bailiffs, and other law enforcement officers .....	16.52	14.53	15.78	16.64	18.54	18.68
Correctional institution officers .....	11.43	9.88	10.81	11.53	12.27	12.27
Guards and police except public service .....	8.42	6.25	6.88	7.23	8.65	13.55
Food service occupations .....	6.57	2.13	5.29	6.13	7.77	10.08
Supervisors, food preparation and service occupations .....	13.27	9.56	11.54	13.94	16.00	16.00
Waiters and waitresses .....	3.08	2.13	2.13	2.13	2.89	6.35
Cooks .....	7.57	6.00	6.48	7.00	8.00	9.27
Kitchen workers, food preparation .....	6.55	5.34	5.61	6.20	7.15	8.50
Waiters'/Waitresses' assistants .....	7.59	4.52	5.25	5.59	14.00	14.00
Food preparation occupations, N.E.C. ....	6.98	5.25	5.40	6.14	8.42	10.00
Health service occupations .....	8.08	5.15	6.56	8.04	9.11	10.47

See footnotes at end of table.

**Table A-1. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean	Percentiles				
		10	25	Median 50	75	90
<b>Service occupations (-Continued)</b>						
Health service occupations (-Continued)						
Health aides, except nursing .....	\$8.92	\$7.10	\$7.85	\$8.98	\$9.47	\$10.72
Nursing aides, orderlies and attendants .....	7.76	5.15	6.10	7.62	9.00	10.25
Cleaning and building service occupations .....	7.11	(4)	(4)	(4)	(4)	(4)
Maids and housemen .....	5.99	5.22	5.52	5.90	6.27	6.84
Janitors and cleaners .....	7.03	(4)	(4)	(4)	(4)	(4)
Personal service occupations .....	11.19	5.25	6.00	8.13	10.95	26.75
Welfare service aides .....	8.65	7.48	7.48	7.92	9.46	11.09
Early childhood teachers' assistants .....	8.27	5.50	5.97	8.42	9.81	9.94
Service occupations, N.E.C. ....	7.97	5.15	6.41	7.95	9.23	9.23

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

<sup>2</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual

occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> The positional statistics for this occupation were suppressed because some were below the minimum wage. In this update survey, an average decrease in mean wages for this occupation was applied to the positional statistics, causing the 10th percentile to go below the minimum wage.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.



**Table A-2. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, private industry and State and local government, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>3</sup>	Private industry						State and local government					
	Mean	Percentiles					Mean	Percentiles				
		10	25	Median 50	75	90		10	25	Median 50	75	90
<b>All occupations</b> .....	\$17.23	\$6.08	\$8.50	\$13.93	\$21.74	\$32.39	\$17.89	\$8.47	\$10.47	\$14.97	\$23.00	\$30.27
All occupations excluding sales .....	17.31	6.17	8.64	14.16	21.79	32.66	17.93	8.50	10.50	15.06	23.01	30.28
<b>White-collar occupations</b> .....	21.85	8.07	11.55	18.12	27.48	40.52	20.47	9.12	11.85	19.14	26.60	32.15
White-collar occupations excluding sales .....	22.98	9.40	12.80	19.11	28.85	41.28	20.53	9.22	11.89	19.20	26.62	32.15
Professional specialty and technical occupations .....	27.52	14.43	18.53	24.33	32.69	43.27	24.56	12.96	18.51	23.11	28.23	32.90
Professional specialty occupations .....	29.60	17.77	21.05	26.98	34.92	45.72	25.58	15.28	19.42	23.98	28.74	33.29
Engineers, architects, and surveyors .....	33.16	19.62	25.48	31.41	40.02	47.85	-	-	-	-	-	-
Petroleum engineers .....	45.53	31.53	39.45	43.99	50.40	59.99	-	-	-	-	-	-
Chemical engineers .....	34.85	25.87	28.08	32.89	38.94	48.08	-	-	-	-	-	-
Civil engineers .....	36.44	21.38	29.49	38.16	43.45	48.18	-	-	-	-	-	-
Electrical and electronic engineers .....	31.01	24.82	27.97	29.33	33.53	45.96	-	-	-	-	-	-
Industrial engineers .....	30.32	22.84	24.80	29.74	33.05	47.69	-	-	-	-	-	-
Mechanical engineers .....	28.30	15.60	20.94	25.48	37.59	42.69	-	-	-	-	-	-
Engineers, N.E.C. ....	32.96	20.94	25.40	31.22	38.93	47.31	-	-	-	-	-	-
Mathematical and computer scientists .....	28.76	20.21	22.64	26.98	32.21	37.81	-	-	-	-	-	-
Computer systems analysts and scientists .....	28.85	20.21	22.64	27.14	32.21	37.81	-	-	-	-	-	-
Natural scientists .....	32.45	15.09	21.22	27.74	37.97	64.04	-	-	-	-	-	-
Geologists and geodesists .....	36.13	20.76	26.53	32.37	44.57	64.04	-	-	-	-	-	-
Health related occupations .....	22.52	16.25	18.24	21.00	24.05	28.32	23.39	17.97	19.62	22.30	27.26	30.16
Registered nurses .....	20.61	16.01	18.08	20.50	22.80	25.00	22.65	17.54	19.29	21.60	25.54	28.23
Pharmacists .....	27.91	25.96	27.37	27.88	29.16	29.16	-	-	-	-	-	-
Respiratory therapists .....	17.68	15.00	15.45	17.30	17.58	22.90	-	-	-	-	-	-
Teachers, college and university .....	31.92	15.66	16.88	22.29	48.07	53.18	44.77	21.55	29.05	42.34	54.92	64.62
Teachers, except college and university .....	18.33	10.75	12.99	16.08	23.57	27.79	24.49	18.95	20.66	24.70	27.96	31.69
Elementary school teachers .....	19.41	12.36	14.64	18.60	23.29	28.52	24.30	19.37	20.69	24.06	27.01	30.20
Secondary school teachers .....	-	-	-	-	-	-	24.65	19.30	20.50	24.68	28.35	31.97
Teachers, N.E.C. ....	17.15	7.90	12.00	14.50	17.88	25.13	26.16	18.95	21.96	26.53	30.32	33.69
Vocational and educational counselors .....	-	-	-	-	-	-	27.40	16.14	23.11	28.35	32.90	32.90
Librarians, archivists, and curators .....	-	-	-	-	-	-	18.88	11.26	14.23	17.85	24.18	29.55
Librarians .....	-	-	-	-	-	-	18.88	11.26	14.23	17.85	24.18	29.55
Social scientists and urban planners .....	-	-	-	-	-	-	-	-	-	-	-	-
Social, recreation, and religious workers .....	13.97	8.24	11.50	12.15	20.71	20.71	15.23	11.53	12.66	14.49	17.43	19.39
Social workers .....	-	-	-	-	-	-	15.23	11.53	12.66	14.49	17.43	19.39
Lawyers and judges .....	44.00	20.97	22.13	39.44	59.11	76.92	-	-	-	-	-	-
Lawyers .....	43.17	20.97	22.13	39.44	58.62	76.92	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	25.26	7.78	17.41	22.80	29.13	48.08	-	-	-	-	-	-
Designers .....	19.97	6.97	7.78	18.67	27.95	37.00	-	-	-	-	-	-
Professional occupations, N.E.C. ....	29.01	18.17	20.51	25.19	34.66	48.08	-	-	-	-	-	-
Technical occupations .....	22.34	11.69	14.26	17.72	23.22	32.14	13.96	9.41	10.82	12.21	16.04	19.24
Clinical laboratory technologists and technicians .....	15.52	6.90	10.58	16.63	19.16	23.31	-	-	-	-	-	-
Licensed practical nurses .....	13.67	11.43	12.35	13.31	14.86	16.00	-	-	-	-	-	-
Health technologists and technicians, N.E.C. ....	14.38	9.25	11.98	14.62	16.67	18.20	-	-	-	-	-	-
Electrical and electronic technicians .....	19.02	11.60	13.24	22.15	23.62	24.70	-	-	-	-	-	-
Engineering technicians, N.E.C. ....	20.89	15.26	15.72	20.24	25.08	30.29	-	-	-	-	-	-
Drafters .....	25.64	16.01	19.54	24.50	32.08	35.96	-	-	-	-	-	-
Chemical technicians .....	22.22	14.33	21.25	23.12	25.03	26.01	-	-	-	-	-	-
Computer programmers .....	20.85	14.90	14.90	18.13	27.25	30.65	-	-	-	-	-	-
Legal assistants .....	19.30	17.29	17.29	20.01	20.26	22.79	-	-	-	-	-	-
Executive, administrative, and managerial occupations .....	32.07	16.71	20.31	28.61	40.67	51.64	26.35	15.43	18.85	25.52	32.06	34.95
Executives, administrators, and managers .....	36.71	18.46	25.34	34.62	44.00	58.70	27.55	14.75	22.07	29.58	32.15	36.13
Administrators and officials, public administration .....	-	-	-	-	-	-	26.62	14.29	21.09	25.50	33.26	36.13
Financial managers .....	34.47	18.99	23.04	33.23	40.91	49.68	-	-	-	-	-	-
Personnel and labor relations managers .....	38.71	25.00	25.34	41.59	42.74	68.17	-	-	-	-	-	-
Purchasing managers .....	35.15	25.00	25.97	30.29	48.74	51.46	-	-	-	-	-	-

See footnotes at end of table.

**Table A-2. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, private industry and State and local government, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	Private industry						State and local government						
	Mean	Percentiles					Mean	Percentiles					
		10	25	Median 50	75	90		10	25	Median 50	75	90	
<b>White-collar occupations</b> (-Continued)													
Executive, administrative, and managerial occupations (-Continued)													
Executives, administrators, and managers (-Continued)													
Managers, marketing, advertising and public relations .....	\$42.27	\$28.61	\$32.39	\$40.12	\$53.41	\$61.77	-	-	-	-	-	-	-
Administrators, education and related fields .....	31.82	17.21	26.35	37.80	37.80	43.08	\$31.69	\$22.07	\$28.86	\$30.29	\$34.58	\$38.14	-
Managers, medicine and health .....	25.35	17.30	17.30	29.26	29.72	29.72	-	-	-	-	-	-	-
Managers, food servicing and lodging establishments .....	32.18	11.50	14.99	19.23	40.87	72.12	-	-	-	-	-	-	-
Managers and administrators, N.E.C. ....	38.28	21.50	26.51	37.08	45.04	62.50	-	-	-	-	-	-	-
Management related occupations .....	26.46	16.25	18.24	23.34	30.46	42.67	19.62	16.06	16.28	18.53	20.03	27.04	-
Accountants and auditors .....	23.34	16.68	17.51	21.05	26.25	33.53	-	-	-	-	-	-	-
Other financial officers .....	29.64	14.70	19.51	26.78	39.19	44.29	-	-	-	-	-	-	-
Management analysts .....	27.69	15.14	24.04	27.88	30.45	38.57	-	-	-	-	-	-	-
Personnel, training, and labor relations specialists .....	28.91	17.08	19.00	25.03	42.67	43.27	-	-	-	-	-	-	-
Purchasing agents and buyers, N.E.C. ....	25.78	18.90	20.31	22.87	31.30	36.77	-	-	-	-	-	-	-
Management related occupations, N.E.C. ....	25.43	16.18	17.96	21.05	28.22	45.81	-	-	-	-	-	-	-
Sales occupations .....	16.40	5.75	7.25	11.30	20.28	28.71	-	-	-	-	-	-	-
Supervisors, sales occupations .....	22.86	9.85	14.42	18.84	26.92	41.43	-	-	-	-	-	-	-
Securities and financial services sales occupations .....	16.16	8.31	10.37	12.99	16.27	35.19	-	-	-	-	-	-	-
Advertising and related sales occupations .....	19.27	10.21	12.50	16.45	23.49	33.61	-	-	-	-	-	-	-
Sales occupations, other business services .....	19.33	8.77	14.66	18.14	27.43	28.36	-	-	-	-	-	-	-
Sales representatives, mining, manufacturing, and wholesale .....	24.47	12.37	20.03	24.59	28.59	29.38	-	-	-	-	-	-	-
Sales workers, motor vehicles and boats .....	19.77	6.02	8.86	11.17	25.01	46.90	-	-	-	-	-	-	-
Sales workers, parts .....	19.15	15.73	16.12	20.52	21.51	22.04	-	-	-	-	-	-	-
Sales workers, other commodities .....	11.49	6.00	6.25	8.93	12.38	21.28	-	-	-	-	-	-	-
Sales counter clerks .....	8.92	5.64	7.00	9.00	10.90	12.89	-	-	-	-	-	-	-
Cashiers .....	6.86	5.15	5.50	6.75	7.77	9.24	-	-	-	-	-	-	-
Sales support occupations, N.E.C. ....	12.29	5.75	10.59	11.30	12.77	22.64	-	-	-	-	-	-	-
Administrative support occupations, including clerical .....	12.58	7.62	9.44	11.75	15.02	18.27	10.89	7.85	8.89	10.47	12.68	14.32	-
Supervisors, general office .....	13.85	11.50	12.00	12.80	15.17	19.39	-	-	-	-	-	-	-
Supervisors, distribution, scheduling, and adjusting clerks .....	19.48	14.29	14.42	16.14	24.04	27.31	-	-	-	-	-	-	-
Computer operators .....	14.44	8.40	10.87	13.59	19.30	19.30	-	-	-	-	-	-	-
Secretaries .....	15.09	10.56	12.40	14.80	17.00	20.43	11.57	9.14	10.02	11.15	13.06	14.56	-
Transportation ticket and reservation agents .....	11.67	6.74	7.62	10.68	16.21	17.72	-	-	-	-	-	-	-
Receptionists .....	8.72	6.25	7.33	8.75	10.00	10.86	-	-	-	-	-	-	-
Information clerks, N.E.C. ....	11.41	8.50	9.25	10.00	16.41	16.41	-	-	-	-	-	-	-
Order clerks .....	12.91	7.00	10.42	12.94	14.42	16.20	-	-	-	-	-	-	-
Personnel clerks except payroll and timekeeping .....	11.81	7.50	9.75	10.01	15.13	15.13	-	-	-	-	-	-	-
Library clerks .....	-	-	-	-	-	-	8.57	6.26	7.86	8.41	9.20	11.13	-
Records clerks, N.E.C. ....	11.20	7.84	8.58	10.38	13.02	16.16	11.79	10.41	10.53	10.99	13.57	14.15	-
Bookkeepers, accounting and auditing clerks .....	11.49	7.78	10.10	11.13	12.74	14.70	-	-	-	-	-	-	-
Billing clerks .....	12.70	9.06	10.50	11.54	13.22	19.58	-	-	-	-	-	-	-
Production coordinators .....	15.57	10.92	11.66	15.29	18.30	21.39	-	-	-	-	-	-	-
Traffic, shipping and receiving clerks .....	9.98	6.80	7.26	9.00	11.35	15.24	-	-	-	-	-	-	-
Stock and inventory clerks .....	10.41	7.00	8.61	10.33	11.68	14.05	-	-	-	-	-	-	-
Material recording, scheduling, and distribution clerks, N.E.C. ....	12.68	6.25	6.44	11.83	16.40	19.17	-	-	-	-	-	-	-

See footnotes at end of table.

**Table A-2. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, private industry and State and local government, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	Private industry						State and local government						
	Mean	Percentiles					Mean	Percentiles					
		10	25	Median 50	75	90		10	25	Median 50	75	90	
<b>White-collar occupations</b> (-Continued)													
Administrative support occupations, including clerical (-Continued)													
Insurance adjusters, examiners, and investigators .....	\$13.24	\$9.30	\$11.35	\$13.04	\$14.78	\$16.50	—	—	—	—	—	—	—
Investigators and adjusters except insurance .....	14.55	9.33	10.49	12.87	18.02	21.88	—	—	—	—	—	—	—
Bill and account collectors .....	9.93	6.25	6.69	10.04	11.83	13.94	—	—	—	—	—	—	—
General office clerks .....	12.12	7.56	8.80	11.25	14.81	17.77	\$10.33	\$7.85	\$8.58	\$9.92	\$12.10	\$13.53	—
Bank tellers .....	9.53	8.06	8.54	9.23	10.27	11.14	—	—	—	—	—	—	—
Data entry keyers .....	9.93	6.50	8.00	9.00	11.57	14.52	—	—	—	—	—	—	—
Teachers' aides .....	—	—	—	—	—	—	9.94	7.85	8.08	9.64	11.45	12.68	—
Administrative support occupations, N.E.C. ....	13.33	9.25	10.79	12.50	14.22	19.51	11.80	8.40	9.25	11.39	14.13	15.64	—
<b>Blue-collar occupations</b> .....	12.98	6.14	7.78	11.45	16.77	22.48	12.54	8.17	10.33	12.13	14.83	16.78	—
Precision production, craft, and repair occupations .....	17.44	9.47	12.65	16.79	22.10	23.74	14.17	10.41	11.12	13.30	16.57	18.50	—
Supervisors, mechanics and repairers	23.73	14.42	17.31	22.79	29.57	33.03	—	—	—	—	—	—	—
Automobile mechanics .....	19.47	9.87	12.89	16.70	23.43	36.01	—	—	—	—	—	—	—
Bus, truck, and stationary engine mechanics .....	15.80	11.89	13.50	16.00	16.00	22.89	—	—	—	—	—	—	—
Industrial machinery repairers .....	15.84	10.70	13.75	15.18	17.50	22.48	—	—	—	—	—	—	—
Mechanics and repairers, N.E.C. ....	16.42	10.75	11.78	15.00	22.48	23.73	—	—	—	—	—	—	—
Supervisors, construction trades, N.E.C. ....	17.66	14.58	15.50	17.52	19.85	21.48	—	—	—	—	—	—	—
Carpenters .....	15.51	12.71	14.00	15.23	17.40	18.15	—	—	—	—	—	—	—
Electricians .....	18.84	15.30	16.13	18.00	21.90	22.92	—	—	—	—	—	—	—
Painters, construction and maintenance .....	12.61	9.33	11.35	12.80	14.64	14.99	—	—	—	—	—	—	—
Plumbers, pipefitters and steamfitters	16.62	10.00	14.68	15.98	21.77	23.66	—	—	—	—	—	—	—
Insulation workers .....	11.98	9.00	9.75	11.00	13.00	15.58	—	—	—	—	—	—	—
Construction trades, N.E.C. ....	9.53	7.25	7.25	7.50	9.75	15.89	—	—	—	—	—	—	—
Supervisors, production occupations ..	25.82	16.71	19.42	24.67	32.19	34.53	—	—	—	—	—	—	—
Machinists .....	18.36	14.90	16.40	17.23	22.48	22.59	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers .....	10.34	6.77	7.89	10.41	12.56	13.70	—	—	—	—	—	—	—
Butchers and meat cutters .....	11.47	8.49	9.35	11.35	12.96	14.43	—	—	—	—	—	—	—
Inspectors, testers, and graders .....	15.89	9.06	15.06	16.94	18.03	20.56	—	—	—	—	—	—	—
Miscellaneous plant and system operators, N.E.C. ....	23.16	20.57	21.98	23.22	23.73	26.01	—	—	—	—	—	—	—
Machine operators, assemblers, and inspectors .....	11.00	6.00	7.38	10.73	13.59	16.64	—	—	—	—	—	—	—
Punching and stamping press operators .....	9.39	6.23	6.60	10.13	11.12	13.76	—	—	—	—	—	—	—
Numerical control machine operators	14.88	9.70	12.98	15.74	16.61	20.13	—	—	—	—	—	—	—
Printing press operators .....	12.28	8.81	9.82	12.65	16.00	17.02	—	—	—	—	—	—	—
Laundering and dry cleaning machine operators .....	7.30	6.15	6.81	7.11	7.63	9.48	—	—	—	—	—	—	—
Miscellaneous machine operators, N.E.C. ....	12.38	7.22	10.45	10.92	13.80	19.76	—	—	—	—	—	—	—
Welders and cutters .....	12.74	11.17	11.17	11.84	13.91	15.73	—	—	—	—	—	—	—
Assemblers .....	8.89	5.52	6.44	8.41	9.37	14.99	—	—	—	—	—	—	—
Production inspectors, checkers and examiners .....	13.04	7.51	9.35	13.65	16.64	17.43	—	—	—	—	—	—	—
Transportation and material moving occupations .....	12.46	7.14	8.52	11.00	16.20	19.35	12.58	7.33	10.18	12.87	14.83	16.67	—
Truck drivers .....	12.34	8.00	9.90	11.00	14.70	18.49	—	—	—	—	—	—	—
Bus drivers .....	—	—	—	—	—	—	12.51	7.69	10.60	12.87	14.83	14.83	—
Industrial truck and tractor equipment operators .....	8.91	7.00	7.37	8.13	10.50	11.40	—	—	—	—	—	—	—
Miscellaneous material moving equipment operators, N.E.C. ....	14.79	10.40	10.62	13.25	21.20	21.20	—	—	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers .....	8.46	5.35	6.14	7.40	9.97	12.88	10.02	7.74	8.37	10.09	10.90	12.56	—

See footnotes at end of table.

**Table A-2. Hourly earnings<sup>1</sup> for selected occupations, all workers<sup>2</sup>, private industry and State and local government, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	Private industry						State and local government						
	Mean	Percentiles					Mean	Percentiles					
		10	25	Median 50	75	90		10	25	Median 50	75	90	
<b>Blue-collar occupations (-Continued)</b>													
Handlers, equipment cleaners, helpers, and laborers (-Continued)													
Groundskeepers and gardeners except farm .....	—	—	—	—	—	—	\$10.05	\$8.09	\$8.19	\$9.76	\$12.47	\$12.71	
Helpers, mechanics and repairers .....	\$11.23	\$6.00	\$6.69	\$11.50	\$13.86	\$16.55	—	—	—	—	—	—	—
Helpers, construction trades .....	9.69	7.25	8.00	9.30	10.65	12.61	—	—	—	—	—	—	—
Construction laborers .....	8.17	5.72	6.50	8.00	9.14	12.00	—	—	—	—	—	—	—
Production helpers .....	9.82	6.67	7.76	8.86	10.82	16.14	—	—	—	—	—	—	—
Stock handlers and baggers .....	7.24	5.15	5.25	6.27	8.00	11.26	—	—	—	—	—	—	—
Freight, stock, and material handlers, N.E.C. ....	8.40	5.35	6.00	7.02	9.55	15.18	—	—	—	—	—	—	—
Vehicle washers and equipment cleaners .....	8.29	5.58	6.21	7.21	10.22	12.69	—	—	—	—	—	—	—
Hand packers and packagers .....	7.19	5.15	5.50	6.42	8.05	10.00	—	—	—	—	—	—	—
Laborers except construction, N.E.C. ....	8.67	6.00	6.17	6.83	10.00	15.34	10.69	7.82	8.45	10.53	12.68	13.71	
<b>Service occupations</b> .....	7.19	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	12.13	7.19	8.72	10.84	15.78	18.62	
Protective service occupations .....	7.78	6.19	6.82	7.23	8.03	10.05	15.45	10.81	12.27	15.78	18.14	20.23	
Firefighting occupations .....	—	—	—	—	—	—	14.96	12.58	13.93	15.07	16.88	16.88	
Police and detectives, public service ..	—	—	—	—	—	—	18.24	15.28	16.08	18.23	19.76	22.07	
Sheriffs, bailiffs, and other law enforcement officers .....	—	—	—	—	—	—	16.52	14.53	15.78	16.64	18.54	18.68	
Correctional institution officers .....	—	—	—	—	—	—	11.43	9.88	10.81	11.53	12.27	12.27	
Guards and police except public service .....	7.77	6.19	6.82	7.23	8.03	9.50	—	—	—	—	—	—	
Food service occupations .....	6.28	2.13	5.25	5.80	7.27	9.50	8.54	6.39	7.19	8.57	10.00	10.15	
Supervisors, food preparation and service occupations .....	13.27	9.56	11.54	13.94	16.00	16.00	—	—	—	—	—	—	
Waiters and waitresses .....	3.08	2.13	2.13	2.13	2.89	6.35	—	—	—	—	—	—	
Cooks .....	7.63	6.00	6.75	7.23	8.00	9.27	—	—	—	—	—	—	
Kitchen workers, food preparation .....	6.52	5.30	5.61	6.05	7.15	8.50	—	—	—	—	—	—	
Waiters'/Waitresses' assistants .....	7.59	4.52	5.25	5.59	14.00	14.00	—	—	—	—	—	—	
Food preparation occupations, N.E.C. ....	5.97	5.15	5.29	5.58	6.12	7.01	8.90	6.78	7.39	9.21	10.00	10.32	
Health service occupations .....	7.43	5.15	5.75	7.10	8.75	9.84	9.17	7.43	8.04	8.98	9.92	11.51	
Health aides, except nursing .....	—	—	—	—	—	—	9.45	7.95	8.71	8.98	9.63	11.75	
Nursing aides, orderlies and attendants .....	7.32	5.15	5.54	6.68	8.75	9.74	8.91	7.03	7.58	8.47	10.00	11.38	
Cleaning and building service occupations .....	6.55	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	8.85	6.29	7.07	8.60	10.08	11.98	
Maids and housemen .....	5.99	5.22	5.52	5.90	6.27	6.84	—	—	—	—	—	—	
Janitors and cleaners .....	6.27	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	8.85	6.29	7.07	8.60	10.08	11.98	
Personal service occupations .....	12.56	5.25	5.28	7.48	16.90	32.69	8.81	6.42	7.92	9.23	9.81	10.73	
Early childhood teachers' assistants ..	—	—	—	—	—	—	8.58	5.97	7.57	8.77	9.81	9.94	

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

<sup>2</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover

all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> The positional statistics for this occupation were suppressed because some were below the minimum wage. In this update survey, an average decrease in mean wages for this occupation was applied to the positional statistics, causing the 10th percentile to go below the minimum wage.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Table A-3. Hourly earnings<sup>1</sup> for selected occupations, full-time and part-time workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>3</sup>	All industries											
	Full-time						Part-time					
	Mean	Percentiles					Mean	Percentiles				
10		25	Median 50	75	90	10		25	Median 50	75	90	
<b>All occupations</b> .....	\$18.12	\$7.03	\$9.88	\$14.99	\$22.59	\$32.21	\$7.69	\$5.15	\$5.25	\$6.00	\$8.06	\$12.16
All occupations excluding sales .....	18.11	7.11	9.97	15.05	22.67	32.20	7.92	5.15	5.25	6.10	8.43	13.90
<b>White-collar occupations</b> .....	22.12	9.12	12.27	18.89	27.66	38.78	9.88	5.25	6.00	7.56	10.50	18.05
White-collar occupations excluding sales .....	22.61	9.70	12.82	19.35	28.23	39.38	12.40	6.50	7.50	9.75	15.68	21.99
Professional specialty and technical occupations .....	26.75	14.29	18.83	24.06	30.77	41.45	17.14	7.33	10.00	16.47	21.77	27.61
Professional specialty occupations .....	28.24	17.39	20.45	25.82	32.15	43.12	17.90	7.33	10.00	17.30	23.51	27.88
Engineers, architects, and surveyors .....	33.14	19.62	25.48	31.38	40.10	47.95	-	-	-	-	-	-
Petroleum engineers .....	45.53	31.53	39.45	43.99	50.40	59.99	-	-	-	-	-	-
Chemical engineers .....	34.85	25.87	28.08	32.89	38.94	48.08	-	-	-	-	-	-
Civil engineers .....	36.44	21.38	29.49	38.16	43.45	48.18	-	-	-	-	-	-
Electrical and electronic engineers .....	31.01	24.82	27.97	29.33	33.53	45.96	-	-	-	-	-	-
Industrial engineers .....	30.32	22.84	24.80	29.74	33.05	47.69	-	-	-	-	-	-
Mechanical engineers .....	28.30	15.60	20.94	25.48	37.59	42.69	-	-	-	-	-	-
Engineers, N.E.C. ....	32.96	20.94	25.40	31.22	38.93	47.31	-	-	-	-	-	-
Mathematical and computer scientists .....	28.64	20.10	22.45	26.98	32.21	37.81	-	-	-	-	-	-
Computer systems analysts and scientists .....	28.72	20.10	22.45	27.14	32.21	37.81	-	-	-	-	-	-
Natural scientists .....	27.95	12.86	15.20	24.96	34.62	54.81	-	-	-	-	-	-
Geologists and geodesists .....	36.13	20.76	26.53	32.37	44.57	64.04	-	-	-	-	-	-
Medical scientists .....	17.99	11.87	12.51	13.73	15.53	20.51	-	-	-	-	-	-
Health related occupations .....	22.73	16.69	18.75	21.10	25.00	29.16	23.86	17.30	20.35	21.99	25.00	35.89
Registered nurses .....	21.29	16.27	18.40	20.69	23.64	26.66	21.89	17.70	21.01	21.99	24.00	24.00
Pharmacists .....	28.34	23.74	27.37	28.85	30.04	31.29	-	-	-	-	-	-
Teachers, college and university .....	45.63	23.84	30.35	43.25	54.92	65.04	17.92	9.84	18.05	18.05	18.05	22.05
Teachers, except college and university .....	24.79	19.17	20.79	24.75	28.06	31.78	10.41	7.33	7.33	9.63	12.00	16.59
Elementary school teachers .....	24.22	19.25	20.66	24.06	27.01	30.19	-	-	-	-	-	-
Secondary school teachers .....	24.70	19.30	20.50	24.53	28.35	31.97	-	-	-	-	-	-
Teachers, N.E.C. ....	25.96	17.92	21.23	26.13	30.11	33.69	12.84	7.00	8.20	12.99	16.59	18.75
Vocational and educational counselors .....	26.92	15.54	22.43	27.81	32.90	32.90	-	-	-	-	-	-
Librarians, archivists, and curators .....	18.84	11.26	14.23	17.77	23.60	29.55	-	-	-	-	-	-
Librarians .....	18.84	11.26	14.23	17.77	23.60	29.55	-	-	-	-	-	-
Social scientists and urban planners .....	31.53	16.30	26.01	30.84	33.65	51.92	-	-	-	-	-	-
Social, recreation, and religious workers .....	15.05	11.50	12.36	13.94	17.48	20.71	-	-	-	-	-	-
Social workers .....	14.95	11.53	12.66	13.94	17.40	19.14	-	-	-	-	-	-
Lawyers and judges .....	37.85	20.97	26.08	29.33	43.27	68.99	-	-	-	-	-	-
Lawyers .....	37.99	20.97	29.33	29.33	43.27	68.27	-	-	-	-	-	-
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	26.08	13.28	18.91	22.80	29.13	48.08	-	-	-	-	-	-
Designers .....	19.97	6.97	7.78	18.67	27.95	37.00	-	-	-	-	-	-
Professional occupations, N.E.C. ....	29.01	18.17	20.51	25.19	34.66	48.08	-	-	-	-	-	-
Technical occupations .....	21.32	11.10	13.35	17.02	22.82	30.94	14.14	7.16	13.56	14.77	15.75	17.00
Clinical laboratory technologists and technicians .....	15.93	8.14	12.53	16.85	19.24	23.31	11.79	6.61	6.84	13.02	15.75	20.74
Radiological technicians .....	17.87	11.40	12.21	16.14	20.28	26.65	-	-	-	-	-	-
Licensed practical nurses .....	13.34	11.08	12.10	13.22	14.32	15.47	-	-	-	-	-	-
Health technologists and technicians, N.E.C. ....	14.13	8.59	10.45	14.62	16.67	18.20	-	-	-	-	-	-
Electrical and electronic technicians .....	18.96	11.60	13.23	22.15	23.62	24.70	-	-	-	-	-	-
Engineering technicians, N.E.C. ....	20.01	15.09	15.69	18.51	24.05	30.29	-	-	-	-	-	-
Drafters .....	25.64	16.01	19.54	24.50	32.08	35.96	-	-	-	-	-	-
Chemical technicians .....	22.22	14.33	21.25	23.12	25.03	26.01	-	-	-	-	-	-
Computer programmers .....	20.69	14.90	17.07	19.10	24.33	29.93	-	-	-	-	-	-
Legal assistants .....	19.30	17.29	17.29	20.01	20.26	22.79	-	-	-	-	-	-
Technical and related occupations, N.E.C. ....	16.81	11.14	11.29	16.88	19.54	22.37	-	-	-	-	-	-
Executive, administrative, and managerial occupations .....	31.01	16.59	20.19	28.27	38.86	49.24	-	-	-	-	-	-
Executives, administrators, and managers .....	34.29	18.12	24.21	31.63	41.02	51.97	-	-	-	-	-	-

See footnotes at end of table.

**Table A-3. Hourly earnings<sup>1</sup> for selected occupations, full-time and part-time workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries											
	Full-time					Part-time						
	Mean	Percentiles					Mean	Percentiles				
10		25	Median 50	75	90	10		25	Median 50	75	90	
<b>White-collar occupations (-Continued)</b>												
Executive, administrative, and managerial occupations (-Continued)												
Executives, administrators, and managers (-Continued)												
Administrators and officials, public administration .....	\$26.65	\$14.29	\$21.09	\$25.66	\$33.26	\$36.13	-	-	-	-	-	-
Financial managers .....	34.12	18.99	23.04	33.23	40.91	49.68	-	-	-	-	-	-
Personnel and labor relations managers .....	38.71	25.00	25.34	41.59	42.74	68.17	-	-	-	-	-	-
Purchasing managers .....	35.15	25.00	25.97	30.29	48.74	51.46	-	-	-	-	-	-
Managers, marketing, advertising and public relations .....	42.27	28.61	32.39	40.12	53.41	61.77	-	-	-	-	-	-
Administrators, education and related fields .....	31.70	22.07	28.36	30.29	34.62	38.14	-	-	-	-	-	-
Managers, medicine and health .....	25.22	17.30	17.30	29.26	29.72	32.16	-	-	-	-	-	-
Managers, food servicing and lodging establishments .....	29.69	11.50	14.08	18.12	40.87	72.12	-	-	-	-	-	-
Managers and administrators, N.E.C. ....	36.60	18.85	24.67	34.62	43.13	60.10	-	-	-	-	-	-
Management related occupations .....	25.99	16.25	17.97	22.51	30.29	42.67	-	-	-	-	-	-
Accountants and auditors .....	23.34	16.68	17.51	21.05	26.25	33.53	-	-	-	-	-	-
Other financial officers .....	29.64	14.70	19.51	26.78	39.19	44.29	-	-	-	-	-	-
Management analysts .....	27.69	15.14	24.04	27.88	30.45	38.57	-	-	-	-	-	-
Personnel, training, and labor relations specialists .....	26.94	16.06	18.53	20.39	39.50	43.27	-	-	-	-	-	-
Purchasing agents and buyers, N.E.C. ....	22.99	16.28	16.28	20.31	29.13	35.10	-	-	-	-	-	-
Management related occupations, N.E.C. ....	25.26	16.17	17.96	21.10	28.03	44.12	-	-	-	-	-	-
Sales occupations .....	18.28	6.77	8.97	13.46	21.58	33.30	\$6.57	\$5.15	\$5.40	\$6.00	\$7.26	\$8.75
Supervisors, sales occupations .....	22.86	9.85	14.42	18.84	26.92	41.43	-	-	-	-	-	-
Securities and financial services sales occupations .....	17.25	9.50	11.72	13.74	16.97	35.19	-	-	-	-	-	-
Advertising and related sales occupations .....	19.27	10.21	12.50	16.45	23.49	33.61	-	-	-	-	-	-
Sales occupations, other business services .....	19.71	9.69	14.66	18.30	27.43	28.36	-	-	-	-	-	-
Sales representatives, mining, manufacturing, and wholesale .....	24.47	12.37	20.03	24.59	28.59	29.38	-	-	-	-	-	-
Sales workers, motor vehicles and boats .....	19.77	6.02	8.86	11.17	25.01	46.90	-	-	-	-	-	-
Sales workers, parts .....	19.16	15.73	16.12	20.52	21.51	22.04	-	-	-	-	-	-
Sales workers, other commodities .....	12.99	6.00	7.32	10.00	14.88	22.94	7.31	5.50	6.00	6.09	7.75	11.88
Sales counter clerks .....	9.59	7.00	8.05	9.32	11.00	12.89	-	-	-	-	-	-
Cashiers .....	7.75	6.00	6.84	7.50	8.91	9.58	5.98	5.15	5.15	5.50	6.77	7.55
Sales support occupations, N.E.C. ....	12.36	5.75	10.59	11.43	12.77	22.64	-	-	-	-	-	-
Administrative support occupations, including clerical .....	12.34	7.96	9.50	11.54	14.44	17.76	8.89	6.05	6.76	8.06	10.00	12.96
Supervisors, general office .....	13.95	11.67	12.00	12.80	15.17	18.19	-	-	-	-	-	-
Supervisors, distribution, scheduling, and adjusting clerks .....	19.48	14.29	14.42	16.14	24.04	27.31	-	-	-	-	-	-
Computer operators .....	14.49	8.40	10.92	15.10	19.30	19.30	-	-	-	-	-	-
Secretaries .....	14.30	10.02	11.42	14.04	16.28	19.36	-	-	-	-	-	-
Transportation ticket and reservation agents .....	12.16	6.55	8.06	11.12	16.74	17.74	-	-	-	-	-	-
Receptionists .....	9.34	7.33	8.50	9.23	10.50	11.42	6.88	5.25	5.50	6.50	8.00	9.00
Information clerks, N.E.C. ....	13.19	9.25	10.58	12.09	16.41	16.41	-	-	-	-	-	-
Order clerks .....	12.91	7.00	10.42	12.94	14.42	16.20	-	-	-	-	-	-
Personnel clerks except payroll and timekeeping .....	12.48	9.00	10.00	11.65	15.13	16.11	-	-	-	-	-	-
Records clerks, N.E.C. ....	11.56	8.00	10.00	10.94	13.47	15.78	-	-	-	-	-	-
Bookkeepers, accounting and auditing clerks .....	11.45	8.00	9.87	11.13	12.74	14.70	-	-	-	-	-	-

See footnotes at end of table.

**Table A-3. Hourly earnings<sup>1</sup> for selected occupations, full-time and part-time workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries											
	Full-time					Part-time						
	Mean	Percentiles					Mean	Percentiles				
		10	25	Median 50	75	90		10	25	Median 50	75	90
<b>White-collar occupations (-Continued)</b>												
Administrative support occupations, including clerical (-Continued)												
Billing clerks .....	\$12.54	\$9.06	\$10.50	\$11.54	\$13.09	\$19.58	-	-	-	-	-	
Dispatchers .....	13.57	7.80	9.58	12.10	15.82	19.82	-	-	-	-	-	
Production coordinators .....	15.30	10.92	11.50	15.29	18.01	20.80	-	-	-	-	-	
Traffic, shipping and receiving clerks	10.62	6.99	7.63	9.93	14.32	15.24	-	-	-	-	-	
Stock and inventory clerks .....	10.11	7.00	7.76	9.55	11.68	14.05	-	-	-	-	-	
Material recording, scheduling, and distribution clerks, N.E.C. ....	13.19	6.25	6.70	13.22	17.09	19.08	-	-	-	-	-	
Insurance adjusters, examiners, and investigators .....	13.24	9.30	11.35	13.04	14.78	16.50	-	-	-	-	-	
Investigators and adjusters except insurance .....	14.61	9.62	10.59	12.74	18.02	21.88	-	-	-	-	-	
Bill and account collectors .....	9.93	6.25	6.69	10.04	11.83	13.94	-	-	-	-	-	
General office clerks .....	11.54	7.85	8.96	10.67	13.50	16.16	\$8.58	\$5.69	\$6.25	\$6.72	\$8.32	
Data entry keyers .....	10.03	6.50	8.00	9.00	12.12	14.52	-	-	-	-	-	
Teachers' aides .....	9.99	7.85	8.08	9.72	11.45	12.68	-	-	-	-	-	
Administrative support occupations, N.E.C. ....	12.62	8.62	9.98	12.37	14.22	16.83	-	-	-	-	-	
<b>Blue-collar occupations</b>												
Precision production, craft, and repair occupations .....	13.32	6.38	8.41	11.95	16.89	22.44	6.88	5.15	5.30	6.00	7.80	
Supervisors, mechanics and repairers	17.39	10.19	12.67	16.62	21.77	23.74	9.16	7.80	7.80	9.00	9.47	
Automobile mechanics .....	22.32	14.42	16.46	19.57	29.24	32.64	-	-	-	-	-	
Bus, truck, and stationary engine mechanics .....	19.27	9.91	12.83	16.30	23.27	35.46	-	-	-	-	-	
Industrial machinery repairers .....	15.86	12.17	13.50	16.00	16.57	22.89	-	-	-	-	-	
Mechanics and repairers, N.E.C. ....	15.79	10.70	13.28	15.18	17.50	22.48	-	-	-	-	-	
Supervisors, construction trades, N.E.C. ....	16.14	10.75	11.91	15.00	20.65	23.66	-	-	-	-	-	
Carpenters .....	17.68	14.58	15.50	17.98	19.85	21.48	-	-	-	-	-	
Electricians .....	15.51	12.71	14.00	15.23	17.40	18.15	-	-	-	-	-	
Painters, construction and maintenance .....	18.44	14.07	15.89	18.00	21.00	22.71	-	-	-	-	-	
Plumbers, pipefitters and steamfitters	11.85	10.39	10.54	11.23	12.80	14.70	-	-	-	-	-	
Construction trades, N.E.C. ....	16.81	10.50	14.94	16.24	18.50	23.12	-	-	-	-	-	
Supervisors, production occupations ..	9.74	7.25	7.25	8.00	10.12	15.36	-	-	-	-	-	
Machinists .....	23.97	12.27	16.83	23.20	31.68	34.18	-	-	-	-	-	
Electrical and electronic equipment assemblers .....	18.35	14.90	16.40	17.23	22.48	22.59	-	-	-	-	-	
Butchers and meat cutters .....	10.34	6.77	7.89	10.41	12.56	13.70	-	-	-	-	-	
Inspectors, testers, and graders .....	11.47	8.49	9.35	11.35	12.96	14.43	-	-	-	-	-	
Miscellaneous plant and system operators, N.E.C. ....	15.89	9.06	15.06	16.94	18.03	20.56	-	-	-	-	-	
Machine operators, assemblers, and inspectors .....	23.16	20.57	21.98	23.22	23.73	26.01	-	-	-	-	-	
Punching and stamping press operators .....	11.03	6.02	7.40	10.79	13.60	16.64	-	-	-	-	-	
Numerical control machine operators	9.39	6.23	6.60	10.13	11.12	13.76	-	-	-	-	-	
Printing press operators .....	14.88	9.70	12.98	15.74	16.61	20.13	-	-	-	-	-	
Laundering and dry cleaning machine operators .....	12.28	8.81	9.82	12.65	16.00	17.02	-	-	-	-	-	
Miscellaneous machine operators, N.E.C. ....	7.32	6.15	6.81	7.11	7.63	9.48	-	-	-	-	-	
Welders and cutters .....	12.39	7.22	10.45	10.92	13.80	19.76	-	-	-	-	-	
Assemblers .....	12.74	11.17	11.17	11.84	13.91	15.73	-	-	-	-	-	
Production inspectors, checkers and examiners .....	8.97	5.52	6.44	8.41	9.37	14.99	-	-	-	-	-	
Transportation and material moving occupations .....	13.03	7.51	9.35	13.65	16.64	17.43	-	-	-	-	-	
Truck drivers .....	12.91	7.73	9.37	11.95	16.27	19.35	7.58	5.62	5.62	5.62	9.88	
	12.27	8.00	9.81	11.00	14.70	18.49	-	-	-	-	-	

See footnotes at end of table.

**Table A-3. Hourly earnings<sup>1</sup> for selected occupations, full-time and part-time workers<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries											
	Full-time						Part-time					
	Mean	Percentiles					Mean	Percentiles				
10		25	Median 50	75	90	10		25	Median 50	75	90	
<b>Blue-collar occupations</b> (-Continued)												
Transportation and material moving occupations (-Continued)												
Bus drivers .....	\$13.86	\$8.86	\$12.87	\$14.83	\$14.90	\$16.55	-	-	-	-	-	-
Industrial truck and tractor equipment operators .....	8.91	7.00	7.37	8.13	10.50	11.40	-	-	-	-	-	-
Miscellaneous material moving equipment operators, N.E.C. ....	14.72	10.40	10.62	13.25	21.20	21.20	-	-	-	-	-	-
Handlers, equipment cleaners, helpers, and laborers .....	8.95	5.75	6.25	8.07	10.51	13.54	\$6.07	\$5.15	\$5.15	\$5.61	\$6.26	\$7.23
Groundskeepers and gardeners except farm .....	8.91	6.23	7.23	8.19	10.00	12.71	-	-	-	-	-	-
Helpers, mechanics and repairers .....	11.24	6.00	9.41	10.99	12.88	16.55	-	-	-	-	-	-
Helpers, construction trades .....	9.96	7.25	8.29	10.09	10.90	12.16	-	-	-	-	-	-
Construction laborers .....	8.26	5.72	6.50	8.00	9.20	12.00	-	-	-	-	-	-
Production helpers .....	9.82	6.67	7.76	8.86	10.82	16.14	-	-	-	-	-	-
Stock handlers and baggers .....	8.27	5.35	5.84	7.50	9.55	12.30	5.57	5.15	5.15	5.18	6.00	6.50
Freight, stock, and material handlers, N.E.C. ....	8.58	5.75	6.18	7.35	9.67	15.18	7.55	5.15	5.30	7.00	8.08	12.05
Vehicle washers and equipment cleaners .....	8.58	5.97	6.50	8.00	10.85	12.69	-	-	-	-	-	-
Hand packers and packagers .....	7.74	5.50	6.01	7.12	8.62	10.00	-	-	-	-	-	-
Laborers except construction, N.E.C. ....	9.17	6.17	6.18	8.17	10.53	16.09	6.14	5.63	6.00	6.00	6.25	7.00
<b>Service occupations</b> .....	9.81	5.37	6.35	8.32	12.27	16.88	5.80	4.99	5.15	5.40	6.31	7.68
Protective service occupations .....	14.08	7.23	10.81	14.30	16.91	19.48	-	-	-	-	-	-
Police and detectives, public service ..	18.24	15.28	16.08	18.23	19.76	22.07	-	-	-	-	-	-
Sheriffs, bailiffs, and other law enforcement officers .....	16.52	14.53	15.78	16.64	18.54	18.68	-	-	-	-	-	-
Correctional institution officers .....	11.43	9.88	10.81	11.53	12.27	12.27	-	-	-	-	-	-
Guards and police except public service .....	8.65	6.88	7.23	7.46	9.01	13.55	-	-	-	-	-	-
Food service occupations .....	7.08	2.13	5.46	6.75	8.50	11.50	5.21	2.13	5.20	5.40	5.91	6.77
Supervisors, food preparation and service occupations .....	13.27	9.56	11.54	13.94	16.00	16.00	-	-	-	-	-	-
Waiters and waitresses .....	2.92	2.13	2.13	2.13	2.18	6.16	3.40	2.13	2.13	2.26	5.25	6.38
Cooks .....	7.89	6.34	7.00	7.27	8.27	9.27	-	-	-	-	-	-
Kitchen workers, food preparation .....	6.88	5.34	5.82	6.57	7.80	9.00	5.80	5.30	5.61	5.61	5.66	6.51
Food preparation occupations, N.E.C. ....	7.54	5.46	5.80	6.90	9.30	10.09	5.63	5.20	5.29	5.40	5.45	6.55
Health service occupations .....	8.43	5.96	7.01	8.29	9.47	10.76	6.43	5.15	5.15	5.15	7.79	9.00
Health aides, except nursing .....	9.02	7.21	8.01	8.98	9.60	10.90	-	-	-	-	-	-
Nursing aides, orderlies and attendants .....	8.15	5.75	6.60	7.94	9.32	10.69	6.39	5.15	5.15	5.15	7.79	9.00
Cleaning and building service occupations .....	7.69	5.17	5.69	6.89	8.73	11.40	5.56	4.99	5.15	5.15	5.60	6.51
Maids and housemen .....	6.01	5.22	5.52	5.92	6.28	6.90	-	-	-	-	-	-
Janitors and cleaners .....	7.72	5.15	5.71	7.30	8.93	11.31	5.56	4.99	5.15	5.15	5.47	6.54
Personal service occupations .....	12.32	5.50	7.32	9.23	13.50	29.13	5.80	5.15	5.25	5.25	6.00	7.29
Welfare service aides .....	8.65	7.48	7.48	7.92	9.46	11.09	-	-	-	-	-	-
Early childhood teachers' assistants ..	8.34	5.50	6.55	8.45	9.81	9.94	-	-	-	-	-	-
Service occupations, N.E.C. ....	8.27	6.41	7.00	9.23	9.23	9.23	-	-	-	-	-	-

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The 10th, 25th, 50th, 75th and 90th percentiles designate position in the earnings distribution. At the 50th percentile, the median, half of the workers receive the same as or more than the rate shown, and half receive the same as or less than the rate shown. At the 25th percentile, one-fourth of the workers earn the same as or less than the rate shown. At the 75th percentile, one-fourth earn the same as or more than the rate shown. The 10th and 90th percentiles follow the same logic.

<sup>2</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the

minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.



**Table A-4. Weekly and annual earnings<sup>1</sup> and hours for selected occupations, full-time workers only<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>3</sup>	All industries					
	Mean weekly hours <sup>4</sup>	Weekly earnings		Mean annual hours	Annual earnings	
		Mean	Median		Mean	Median
<b>All occupations</b> .....	39.9	\$724	\$600	2,013	\$36,487	\$30,498
All occupations excluding sales .....	39.9	723	600	2,007	36,344	30,576
<b>White-collar occupations</b> .....	40.0	884	754	1,987	43,938	36,791
White-collar occupations excluding sales .....	39.9	902	772	1,972	44,577	37,199
Professional specialty and technical occupations .....	39.6	1,059	960	1,890	50,550	43,020
Professional specialty occupations .....	40.0	1,129	1,020	1,868	52,744	44,630
Engineers, architects, and surveyors .....	41.1	1,360	1,304	2,135	70,741	67,808
Petroleum engineers .....	40.4	1,838	1,819	2,099	95,576	94,598
Chemical engineers .....	40.4	1,409	1,375	2,102	73,249	71,510
Civil engineers .....	43.1	1,569	1,644	2,239	81,605	85,477
Electrical and electronic engineers .....	40.0	1,240	1,173	2,080	64,501	61,006
Industrial engineers .....	40.0	1,213	1,190	2,080	63,073	61,859
Mechanical engineers .....	40.0	1,132	1,019	2,080	58,861	52,998
Engineers, N.E.C. ....	41.2	1,359	1,316	2,144	70,666	68,444
Mathematical and computer scientists .....	40.3	1,155	1,079	2,098	60,083	56,118
Computer systems analysts and scientists .....	40.4	1,161	1,092	2,103	60,392	56,770
Natural scientists .....	40.2	1,123	987	2,089	58,399	51,333
Geologists and geodesists .....	40.4	1,458	1,295	2,098	75,820	67,328
Medical scientists .....	40.0	719	549	2,080	37,410	28,556
Health related occupations .....	39.8	905	840	2,010	45,686	43,059
Registered nurses .....	39.7	846	825	2,017	42,935	42,430
Pharmacists .....	40.0	1,134	1,154	1,989	56,366	60,008
Teachers, college and university .....	38.6	1,761	1,672	1,809	82,537	74,494
Teachers, except college and university .....	39.1	969	962	1,471	36,454	36,214
Elementary school teachers .....	38.6	935	928	1,436	34,793	34,502
Secondary school teachers .....	39.5	977	960	1,472	36,357	35,917
Teachers, N.E.C. ....	39.6	1,028	1,043	1,518	39,419	39,479
Vocational and educational counselors .....	39.8	1,070	1,112	1,672	45,024	46,270
Librarians, archivists, and curators .....	39.3	740	687	1,688	31,788	30,193
Librarians .....	39.3	740	687	1,688	31,788	30,193
Social scientists and urban planners .....	40.0	1,261	1,234	1,862	58,699	48,320
Social, recreation, and religious workers .....	40.0	602	558	2,041	30,720	28,995
Social workers .....	40.0	598	558	2,039	30,475	28,954
Lawyers and judges .....	41.3	1,562	1,173	2,146	81,244	61,006
Lawyers .....	41.5	1,575	1,173	2,156	81,881	61,006
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	39.8	1,038	912	2,050	53,451	47,416
Designers .....	40.0	799	747	2,080	41,538	38,834
Professional occupations, N.E.C. ....	39.3	1,140	1,012	1,997	57,916	54,101
Technical occupations .....	38.2	815	682	1,974	42,078	35,360
Clinical laboratory technologists and technicians .....	39.7	632	663	1,998	31,827	33,997
Radiological technicians .....	39.6	707	613	2,059	36,785	31,892
Licensed practical nurses .....	39.6	528	520	2,014	26,868	27,040
Health technologists and technicians, N.E.C. ....	39.8	562	585	2,067	29,203	30,413
Electrical and electronic technicians .....	40.0	758	886	2,080	39,430	46,072
Engineering technicians, N.E.C. ....	40.0	801	740	2,080	41,631	38,501
Drafters .....	40.6	1,040	967	2,110	54,087	50,286
Chemical technicians .....	40.4	899	925	2,103	46,724	48,090
Computer programmers .....	39.8	825	764	2,072	42,874	39,728
Legal assistants .....	40.0	772	800	2,080	40,148	41,621
Technical and related occupations, N.E.C. ....	40.6	682	675	2,111	35,484	35,104
Executive, administrative, and managerial occupations ...	40.7	1,261	1,135	2,100	65,122	58,032
Executives, administrators, and managers .....	41.1	1,409	1,286	2,115	72,525	64,403
Administrators and officials, public administration	40.0	1,066	1,026	1,999	53,269	52,772
Financial managers .....	41.3	1,409	1,250	2,147	73,273	65,000
Personnel and labor relations managers .....	40.0	1,548	1,664	2,080	80,509	86,507
Purchasing managers .....	41.3	1,453	1,363	2,149	75,544	70,876
Managers, marketing, advertising and public relations .....	40.5	1,713	1,605	2,107	89,067	83,454
Administrators, education and related fields .....	39.9	1,265	1,212	2,005	63,547	63,003
Managers, medicine and health .....	40.0	1,009	1,170	2,080	52,460	60,861
Managers, food servicing and lodging establishments .....	39.4	1,170	725	1,938	57,544	37,690
Managers and administrators, N.E.C. ....	41.8	1,530	1,438	2,174	79,563	74,797
Management related occupations .....	40.1	1,041	890	2,077	53,982	46,054

See footnotes at end of table.

**Table A-4. Weekly and annual earnings<sup>1</sup> and hours for selected occupations, full-time workers only<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean weekly hours <sup>4</sup>	Weekly earnings		Mean annual hours	Annual earnings	
		Mean	Median		Mean	Median
<b>White-collar occupations (-Continued)</b>						
Executive, administrative, and managerial occupations (-Continued)						
Management related occupations (-Continued)						
Accountants and auditors .....	40.0	\$934	\$842	2,081	\$48,577	\$43,780
Other financial officers .....	40.6	1,203	1,071	2,111	62,554	55,702
Management analysts .....	40.0	1,109	1,115	2,082	57,665	57,990
Personnel, training, and labor relations specialists .....	40.1	1,079	816	2,083	56,120	42,411
Purchasing agents and buyers, N.E.C. ....	40.2	923	812	2,088	48,015	42,245
Management related occupations, N.E.C. ....	39.9	1,009	842	2,052	51,839	43,784
Sales occupations .....	40.6	742	544	2,111	38,591	28,309
Supervisors, sales occupations .....	40.3	922	769	2,098	47,953	39,998
Securities and financial services sales occupations .....	39.3	678	553	2,043	35,253	28,767
Advertising and related sales occupations .....	40.0	771	658	2,080	40,082	34,209
Sales occupations, other business services .....	40.6	801	732	2,113	41,636	38,071
Sales representatives, mining, manufacturing, and wholesale .....	39.8	975	956	2,071	50,682	49,712
Sales workers, motor vehicles and boats .....	51.9	1,025	804	2,697	53,316	41,820
Sales workers, parts .....	45.5	872	923	2,366	45,338	48,019
Sales workers, other commodities .....	39.1	507	394	2,031	26,382	20,467
Sales counter clerks .....	39.4	378	370	2,047	19,632	19,240
Cashiers .....	38.7	300	291	2,013	15,595	15,132
Sales support occupations, N.E.C. ....	39.3	486	434	2,044	25,267	22,561
Administrative support occupations, including clerical .....	39.8	491	462	2,012	24,829	23,242
Supervisors, general office .....	40.1	560	512	2,087	29,112	26,624
Supervisors, distribution, scheduling, and adjusting clerks .....	40.1	781	671	2,086	40,636	34,874
Computer operators .....	40.0	580	604	2,080	30,138	31,403
Secretaries .....	39.9	570	562	2,033	29,075	28,968
Transportation ticket and reservation agents .....	40.0	486	445	2,080	25,297	23,125
Receptionists .....	39.7	371	369	1,980	18,494	19,206
Information clerks, N.E.C. ....	40.0	528	484	2,080	27,442	25,146
Order clerks .....	39.7	512	517	2,062	26,622	26,909
Personnel clerks except payroll and timekeeping .....	39.4	492	400	2,048	25,563	20,821
Records clerks, N.E.C. ....	39.7	459	436	2,006	23,203	22,027
Bookkeepers, accounting and auditing clerks .....	39.5	453	440	2,043	23,391	22,880
Billing clerks .....	40.0	501	462	2,080	26,075	24,003
Dispatchers .....	40.1	544	484	2,083	28,271	25,160
Production coordinators .....	40.0	612	612	1,991	30,456	31,803
Traffic, shipping and receiving clerks .....	39.9	424	397	2,077	22,062	20,654
Stock and inventory clerks .....	40.0	405	382	2,080	21,035	19,864
Material recording, scheduling, and distribution clerks, N.E.C. ....	40.0	528	529	2,080	27,442	27,498
Insurance adjusters, examiners, and investigators .....	39.1	518	509	2,036	26,953	26,458
Investigators and adjusters except insurance .....	39.8	581	509	2,068	30,218	26,447
Bill and account collectors .....	39.8	395	402	2,067	20,527	20,881
General office clerks .....	39.9	460	427	2,025	23,358	21,757
Data entry keyers .....	40.0	401	360	2,080	20,864	18,720
Teachers' aides .....	39.4	394	372	1,455	14,542	13,758
Administrative support occupations, N.E.C. ....	40.0	504	495	2,064	26,044	25,450
<b>Blue-collar occupations</b> .....						
Precision production, craft, and repair occupations .....	40.4	538	482	2,093	27,883	24,960
Supervisors, mechanics and repairers .....	40.3	701	668	2,093	36,411	34,748
Automobile mechanics .....	44.1	850	734	2,293	44,195	38,142
Bus, truck, and stationary engine mechanics .....	40.0	634	640	2,080	32,992	33,280
Industrial machinery repairers .....	40.0	631	607	2,080	32,833	31,574
Mechanics and repairers, N.E.C. ....	39.7	641	596	2,066	33,351	30,982
Supervisors, construction trades, N.E.C. ....	40.0	707	719	2,080	36,783	37,398
Carpenters .....	40.0	620	609	2,080	32,262	31,675
Electricians .....	40.0	738	720	2,080	38,352	37,440
Painters, construction and maintenance .....	40.0	474	449	2,080	24,655	23,348
Plumbers, pipefitters and steamfitters .....	40.0	672	649	2,066	34,730	33,774

See footnotes at end of table.

**Table A-4. Weekly and annual earnings<sup>1</sup> and hours for selected occupations, full-time workers only<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean weekly hours <sup>4</sup>	Weekly earnings		Mean annual hours	Annual earnings	
		Mean	Median		Mean	Median
<b>Blue-collar occupations</b> (-Continued)						
Precision production, craft, and repair occupations (-Continued)						
Construction trades, N.E.C. ....	40.0	\$390	\$320	2,080	\$20,259	\$16,640
Supervisors, production occupations .....	40.2	964	968	2,092	50,148	50,315
Machinists .....	40.0	734	689	2,080	38,158	35,838
Electrical and electronic equipment assemblers ..	40.0	413	416	2,080	21,500	21,657
Butchers and meat cutters .....	35.4	406	368	1,842	21,121	19,110
Inspectors, testers, and graders .....	43.7	695	697	2,274	36,133	36,238
Miscellaneous plant and system operators, N.E.C. ....	40.3	933	938	2,094	48,500	48,798
Machine operators, assemblers, and inspectors .....	40.0	441	430	2,080	22,938	22,360
Punching and stamping press operators .....	40.0	376	405	2,080	19,535	21,061
Numerical control machine operators .....	40.0	595	630	2,080	30,956	32,739
Printing press operators .....	40.0	491	506	2,080	25,542	26,320
Laundry and dry cleaning machine operators .....	39.9	292	284	2,077	15,209	14,792
Miscellaneous machine operators, N.E.C. ....	40.0	496	437	2,080	25,770	22,716
Welders and cutters .....	40.0	509	474	2,080	26,492	24,633
Assemblers .....	40.0	359	336	2,080	18,668	17,493
Production inspectors, checkers and examiners ..	40.0	521	546	2,080	27,098	28,390
Transportation and material moving occupations .....	41.9	541	502	2,144	27,677	25,210
Truck drivers .....	44.1	541	485	2,292	28,120	25,210
Bus drivers .....	37.8	524	593	1,754	24,317	30,847
Industrial truck and tractor equipment operators ..	39.8	354	325	2,068	18,419	16,915
Miscellaneous material moving equipment operators, N.E.C. ....	40.0	589	530	2,080	30,615	27,560
Handlers, equipment cleaners, helpers, and laborers .....	40.0	358	327	2,079	18,599	16,994
Groundskeepers and gardeners except farm .....	40.0	356	328	2,054	18,300	16,827
Helpers, mechanics and repairers .....	41.1	462	440	2,140	24,045	22,855
Helpers, construction trades .....	40.0	399	403	2,080	20,723	20,977
Construction laborers .....	40.0	330	320	2,080	17,179	16,640
Production helpers .....	40.3	395	355	2,093	20,560	18,436
Stock handlers and baggers .....	39.9	330	300	2,074	17,157	15,600
Freight, stock, and material handlers, N.E.C. ....	39.7	340	272	2,063	17,700	14,157
Vehicle washers and equipment cleaners .....	40.4	347	322	2,103	18,047	16,759
Hand packers and packagers .....	40.0	310	285	2,080	16,099	14,806
Laborers except construction, N.E.C. ....	40.0	367	327	2,071	18,997	16,994
<b>Service occupations</b> .....	38.7	379	327	1,947	19,102	15,888
Protective service occupations .....	40.8	574	588	2,108	29,685	30,222
Police and detectives, public service .....	40.0	730	729	2,074	37,829	37,738
Sheriffs, bailiffs, and other law enforcement officers .....	40.0	661	666	2,082	34,394	34,611
Correctional institution officers .....	40.0	457	461	2,080	23,778	23,982
Guards and police except public service .....	39.9	345	298	2,025	17,507	15,513
Food service occupations .....	37.9	268	253	1,852	13,121	12,330
Supervisors, food preparation and service occupations .....	45.3	601	697	2,355	31,245	36,244
Waiters and waitresses .....	36.2	106	77	1,884	5,494	4,010
Cooks .....	37.0	292	280	1,868	14,739	14,560
Kitchen workers, food preparation .....	37.6	258	253	1,894	13,030	12,480
Food preparation occupations, N.E.C. ....	37.5	282	262	1,657	12,492	12,192

See footnotes at end of table.

**Table A-4. Weekly and annual earnings<sup>1</sup> and hours for selected occupations, full-time workers only<sup>2</sup>, all industries, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup>	All industries					
	Mean weekly hours <sup>4</sup>	Weekly earnings		Mean annual hours	Annual earnings	
		Mean	Median		Mean	Median
<b>Service occupations (-Continued)</b>						
Health service occupations .....	39.2	\$331	\$326	2,011	\$16,961	\$16,775
Health aides, except nursing .....	40.0	361	359	2,080	18,754	18,678
Nursing aides, orderlies and attendants .....	38.9	317	308	1,983	16,160	15,857
Cleaning and building service occupations .....	39.8	306	274	2,018	15,511	13,741
Maids and housemen .....	39.5	237	236	1,996	11,994	12,266
Janitors and cleaners .....	39.8	307	289	2,019	15,584	14,703
Personal service occupations .....	32.2	396	364	1,562	19,241	16,266
Welfare service aides .....	40.0	346	317	2,080	17,985	16,467
Early childhood teachers' assistants .....	40.0	334	338	1,612	13,448	13,359
Service occupations, N.E.C. ....	40.0	331	369	1,990	16,452	16,440

<sup>1</sup> Earnings are the straight-time wages or salaries paid to employees. They include incentive pay, cost-of-living adjustments, and hazard pay. Excluded are premium pay for overtime, vacations, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours. The median designates position—one-half of the workers receive the same as or more, and one-half receive the same as or less than the rate shown.

<sup>2</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> Mean weekly hours are the hours an employee is scheduled to work in a week, exclusive of overtime.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Table B-1. Mean hourly earnings<sup>1</sup> by occupational group and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999**

Occupational group <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>All occupations</b> .....	\$17.37	\$17.23	\$17.89	\$18.12	\$7.69
All occupations excluding sales .....	17.45	17.31	17.93	18.11	7.92
<b>White-collar occupations</b> .....	21.50	21.85	20.47	22.12	9.88
Level 1 .....	7.11	7.05	7.46	7.91	6.07
Level 2 .....	9.02	8.98	9.23	9.28	7.31
Level 3 .....	9.71	9.65	9.81	9.86	8.39
Level 4 .....	12.59	12.71	12.02	12.81	7.98
Level 5 .....	15.10	15.66	12.07	15.28	12.14
Level 6 .....	19.40	19.66	18.71	19.43	17.61
Level 7 .....	23.25	22.75	23.89	23.35	16.15
Level 8 .....	23.33	23.68	22.70	23.39	20.30
Level 9 .....	26.47	26.73	25.50	26.45	27.66
Level 10 .....	35.17	35.85	26.48	35.14	—
Level 11 .....	37.21	39.12	29.19	37.28	—
Level 12 .....	41.78	41.78	41.73	41.78	—
Level 13 .....	50.75	52.05	—	50.75	—
Level 14 .....	61.48	61.15	—	61.48	—
Not able to be leveled .....	23.37	21.62	26.31	25.79	—
White-collar occupations excluding sales .....	22.27	22.98	20.53	22.61	12.40
Level 1 .....	7.94	8.22	7.46	8.29	6.69
Level 2 .....	9.12	9.05	9.48	9.25	8.08
Level 3 .....	9.85	9.89	9.81	9.95	8.83
Level 4 .....	12.64	12.83	12.02	12.71	9.10
Level 5 .....	14.67	15.24	12.07	14.77	12.88
Level 6 .....	19.15	19.34	18.71	19.17	17.61
Level 7 .....	23.22	22.64	23.89	23.33	16.15
Level 8 .....	23.49	23.98	22.70	23.55	20.30
Level 9 .....	26.36	26.60	25.50	26.34	27.66
Level 10 .....	35.67	36.48	26.48	35.64	—
Level 11 .....	35.32	36.92	29.19	35.38	—
Level 12 .....	42.33	42.36	41.73	42.33	—
Level 13 .....	50.47	51.74	—	50.47	—
Level 14 .....	61.48	61.15	—	61.48	—
Not able to be leveled .....	22.47	—	26.31	24.55	—
Professional specialty and technical occupations .....	26.46	27.52	24.56	26.75	17.14
Professional specialty occupations .....	27.92	29.60	25.58	28.24	17.90
Level 5 .....	16.36	18.47	11.81	17.51	10.65
Level 6 .....	21.99	21.25	23.06	22.13	18.07
Level 7 .....	24.09	24.18	24.05	24.24	16.04
Level 8 .....	23.95	25.04	22.70	24.05	20.55
Level 9 .....	25.58	26.68	22.65	25.51	27.66
Level 10 .....	30.87	31.57	26.86	30.72	—
Level 11 .....	35.97	38.14	23.77	36.12	—
Level 12 .....	41.89	42.03	—	41.89	—
Level 13 .....	48.06	49.40	—	48.06	—
Level 14 .....	59.25	54.79	—	59.25	—
Not able to be leveled .....	22.38	—	—	26.27	—
Engineers, architects, and surveyors .....	33.16	33.16	—	33.14	—
Level 5 .....	21.26	21.26	—	21.26	—
Level 7 .....	26.03	26.03	—	26.03	—
Level 8 .....	32.19	32.19	—	32.19	—
Level 9 .....	27.05	27.05	—	27.05	—
Level 10 .....	32.48	32.48	—	32.27	—
Level 11 .....	38.19	38.19	—	38.19	—
Level 12 .....	41.31	41.31	—	41.31	—
Level 13 .....	48.38	48.38	—	48.38	—
Mathematical and computer scientists .....	28.60	28.76	—	28.64	—
Level 7 .....	25.04	25.04	—	25.04	—
Level 8 .....	25.25	25.31	—	25.25	—
Level 9 .....	28.07	28.31	—	28.07	—
Level 11 .....	29.31	29.31	—	29.73	—
Level 12 .....	38.94	38.94	—	38.94	—
Natural scientists .....	27.95	32.45	—	27.95	—

See footnotes at end of table.

**Table B-1. Mean hourly earnings<sup>1</sup> by occupational group and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupational group <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>White-collar occupations (-Continued)</b>					
Natural scientists (-Continued)					
Level 7 .....	\$26.65	—	—	\$26.65	—
Level 11 .....	42.87	\$42.87	—	42.87	—
Health related occupations .....					
Level 6 .....	22.81	22.52	\$23.39	22.73	\$23.86
Level 7 .....	20.74	20.76	—	20.65	—
Level 8 .....	23.27	20.85	—	23.38	—
Level 9 .....	20.61	20.93	20.08	20.43	23.38
Level 10 .....	25.14	24.11	—	24.72	—
Level 11 .....	26.16	—	—	26.16	—
Teachers, college and university .....					
Level 7 .....	44.25	31.92	44.77	45.63	17.92
Level 9 .....	23.34	—	23.34	—	—
Level 10 .....	27.22	—	28.47	27.45	—
Level 11 .....	29.22	—	29.22	29.21	—
Teachers, except college and university .....					
Level 5 .....	24.23	18.33	24.49	24.79	10.41
Level 6 .....	9.33	13.15	—	—	8.89
Level 7 .....	24.42	—	—	24.96	—
Level 8 .....	24.79	20.76	24.88	24.88	—
Level 9 .....	24.19	—	24.35	24.46	—
Level 10 .....	24.27	—	—	24.27	—
Librarians, archivists, and curators .....					
Social scientists and urban planners .....	18.80	—	18.88	18.84	—
Social, religious, and recreation workers .....					
Level 7 .....	31.53	—	—	31.53	—
Lawyers and judges .....					
Level 7 .....	15.02	13.97	15.23	15.05	—
Level 8 .....	14.86	—	—	14.86	—
Level 9 .....	37.85	44.00	—	37.85	—
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....					
Level 7 .....	24.57	25.26	—	26.08	—
Level 8 .....	22.87	—	—	—	—
Level 9 .....	24.43	25.27	—	24.43	—
Technical occupations .....					
Level 3 .....	21.11	22.34	13.96	21.32	14.14
Level 4 .....	10.67	10.67	—	11.16	—
Level 5 .....	13.77	14.01	—	13.77	—
Level 6 .....	14.98	15.64	—	15.01	—
Level 7 .....	19.16	20.33	—	19.25	—
Level 8 .....	24.20	24.87	—	24.35	—
Level 9 .....	23.28	23.46	—	23.40	—
Level 10 .....	29.43	29.43	—	29.43	—
Executive, administrative, and managerial occupations ...					
Level 5 .....	31.00	32.07	26.35	31.01	—
Level 6 .....	16.83	17.64	—	16.83	—
Level 7 .....	19.15	19.17	—	19.16	—
Level 8 .....	22.92	22.43	24.77	22.92	—
Level 9 .....	23.97	24.39	22.99	23.97	—
Level 10 .....	27.29	26.34	31.39	27.29	—
Level 11 .....	34.99	35.18	—	34.99	—
Level 12 .....	34.12	34.85	32.12	34.12	—
Level 13 .....	42.89	42.81	—	42.89	—
Level 14 .....	52.06	52.59	—	52.06	—
Level 15 .....	64.33	64.33	—	64.33	—
Executives, administrators, and managers .....					
Level 7 .....	34.29	36.71	27.55	34.29	—
Level 8 .....	25.29	24.92	—	25.29	—
Level 9 .....	22.01	20.86	23.15	22.01	—
Level 10 .....	28.08	26.87	31.39	28.08	—
Level 11 .....	31.66	32.01	—	31.66	—
Level 12 .....	33.99	34.64	—	33.99	—
Level 13 .....	43.01	42.92	—	43.01	—
Level 14 .....	52.44	53.01	—	52.44	—
Level 15 .....	65.28	65.28	—	65.28	—
Management related occupations .....					
Level 5 .....	25.97	26.46	19.62	25.99	—
Level 6 .....	18.02	18.02	—	18.02	—
Level 7 .....	19.08	19.55	—	19.08	—
Level 8 .....	21.33	21.54	—	21.32	—
Level 9 .....	26.30	26.61	—	26.30	—
Level 10 .....	25.41	25.41	—	25.41	—
Level 11 .....	37.47	37.47	—	37.47	—

See footnotes at end of table.

**Table B-1. Mean hourly earnings<sup>1</sup> by occupational group and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupational group <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>White-collar occupations (-Continued)</b>					
Management related occupations (-Continued)					
Level 11 .....	\$34.57	\$35.43	—	\$34.57	—
Level 12 .....	42.28	42.28	—	42.28	—
Sales occupations .....	16.31	16.40	—	18.28	\$6.57
Level 1 .....	6.66	6.66	—	7.55	5.94
Level 2 .....	8.61	8.72	—	9.42	—
Level 3 .....	9.04	9.04	—	9.40	7.52
Level 4 .....	12.41	12.41	—	13.20	7.42
Level 5 .....	18.08	18.08	—	18.93	—
Level 6 .....	21.45	21.45	—	21.45	—
Level 7 .....	23.74	23.74	—	23.74	—
Level 8 .....	20.90	20.90	—	20.90	—
Level 9 .....	28.96	28.96	—	28.96	—
Level 11 .....	61.09	61.09	—	61.09	—
Administrative support occupations, including clerical .....	12.16	12.58	\$10.89	12.34	8.89
Level 1 .....	7.94	8.23	7.46	8.29	6.68
Level 2 .....	9.18	9.13	9.53	9.33	8.09
Level 3 .....	9.83	9.85	9.81	9.92	8.89
Level 4 .....	12.50	12.66	11.97	12.57	9.07
Level 5 .....	13.37	13.62	11.67	13.30	—
Level 6 .....	16.16	17.09	13.95	16.16	—
Level 7 .....	17.92	18.00	—	17.96	—
Level 8 .....	18.12	18.31	—	18.12	—
<b>Blue-collar occupations</b>					
Level 1 .....	12.95	12.98	12.54	13.32	6.88
Level 2 .....	7.05	7.00	9.01	7.24	5.66
Level 3 .....	8.73	8.64	10.04	9.02	7.05
Level 4 .....	11.18	10.98	12.83	11.35	9.01
Level 5 .....	12.94	13.27	10.60	12.97	—
Level 6 .....	14.95	15.13	12.10	14.98	—
Level 7 .....	16.32	16.45	14.89	16.32	—
Level 8 .....	20.29	20.48	17.44	20.28	—
Level 9 .....	22.65	22.65	—	22.65	—
Level 9 .....	21.80	21.95	—	21.80	—
Precision production, craft, and repair occupations .....	17.19	17.44	14.17	17.39	9.16
Level 2 .....	8.59	8.59	—	8.40	—
Level 3 .....	10.67	10.61	—	11.55	—
Level 4 .....	13.58	14.16	—	13.58	—
Level 5 .....	15.14	15.40	—	15.15	—
Level 6 .....	17.39	17.70	14.51	17.39	—
Level 7 .....	20.55	20.77	17.65	20.54	—
Level 8 .....	23.44	23.44	—	23.44	—
Level 9 .....	22.48	22.71	—	22.48	—
Machine operators, assemblers, and inspectors .....	11.00	11.00	—	11.03	—
Level 1 .....	6.97	6.97	—	7.00	—
Level 2 .....	7.95	7.95	—	7.96	—
Level 3 .....	10.96	10.96	—	10.96	—
Level 4 .....	12.51	12.51	—	12.51	—
Level 5 .....	13.48	13.48	—	13.48	—
Level 6 .....	13.10	13.10	—	13.10	—
Level 7 .....	18.35	18.35	—	18.35	—
Transportation and material moving occupations .....	12.48	12.46	12.58	12.91	7.58
Level 1 .....	9.72	—	—	—	—
Level 2 .....	9.22	9.15	—	9.76	—
Level 3 .....	11.70	11.11	13.24	11.73	—
Level 4 .....	13.81	14.22	—	13.96	—
Level 5 .....	15.89	15.99	—	16.11	—
Level 7 .....	19.37	19.82	—	19.37	—
Handlers, equipment cleaners, helpers, and laborers .....	8.57	8.46	10.02	8.95	6.07
Level 1 .....	6.95	6.87	9.11	7.18	5.66
Level 2 .....	8.86	8.74	10.07	9.37	6.20
Level 3 .....	11.11	11.15	—	11.24	—
Level 4 .....	11.85	12.15	—	11.85	—

See footnotes at end of table.

**Table B-1. Mean hourly earnings<sup>1</sup> by occupational group and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupational group <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>Service occupations</b> .....	\$8.98	\$7.19	\$12.13	\$9.81	\$5.80
Level 1 .....	5.95	5.71	8.01	6.24	5.36
Level 2 .....	7.08	6.46	8.51	7.63	5.81
Level 3 .....	8.16	7.34	9.62	8.33	6.93
Level 4 .....	13.79	14.31	13.10	13.94	—
Level 5 .....	12.21	—	11.83	12.21	—
Level 6 .....	16.63	—	16.91	16.66	—
Level 7 .....	16.36	—	16.70	16.51	—
Level 8 .....	16.61	—	17.41	16.61	—
Protective service occupations .....	13.54	7.78	15.45	14.08	—
Level 2 .....	7.07	—	—	—	—
Level 3 .....	8.45	8.12	—	8.46	—
Level 4 .....	14.63	—	—	14.63	—
Level 5 .....	12.23	—	12.21	12.23	—
Level 6 .....	17.05	—	17.10	17.10	—
Level 7 .....	16.70	—	16.70	16.70	—
Level 8 .....	17.41	—	17.41	17.41	—
Food service occupations .....	6.57	6.28	8.54	7.08	5.21
Level 1 .....	5.41	5.14	8.09	5.46	5.27
Level 2 .....	6.75	5.87	8.77	8.13	5.04
Level 3 .....	6.11	6.11	—	6.31	—
Level 4 .....	8.83	8.83	—	8.95	—
Health service occupations .....	8.08	7.43	9.17	8.43	6.43
Level 1 .....	6.53	—	—	—	—
Level 2 .....	7.41	6.65	9.04	7.88	—
Level 3 .....	8.79	8.70	—	8.85	—
Cleaning and building service occupations .....	7.11	6.55	8.85	7.69	5.56
Level 1 .....	6.26	6.02	8.04	6.72	5.42
Level 2 .....	7.20	6.36	7.97	7.31	—
Level 3 .....	9.83	8.10	10.70	9.83	—
Personal service occupations .....	11.19	12.56	8.81	12.32	5.80
Level 1 .....	6.60	6.60	—	—	—
Level 2 .....	6.45	6.03	—	6.39	—
Level 3 .....	8.36	—	8.95	8.50	—
Level 4 .....	19.27	20.63	—	19.52	—

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

<sup>2</sup> Each occupation for which wage data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for more information.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule

based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.



**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>White-collar occupations:</b>					
Professional specialty and technical occupations:					
Professional specialty occupations:					
Petroleum engineers .....	\$45.53	\$45.53	—	\$45.53	—
Level 12 .....	50.23	50.23	—	50.23	—
Chemical engineers .....	34.85	34.85	—	34.85	—
Civil engineers .....	36.44	36.44	—	36.44	—
Electrical and electronic engineers .....	31.01	31.01	—	31.01	—
Industrial engineers .....	30.32	30.32	—	30.32	—
Mechanical engineers .....	28.30	28.30	—	28.30	—
Engineers, N.E.C. ....	32.96	32.96	—	32.96	—
Level 5 .....	21.32	21.32	—	21.32	—
Level 7 .....	26.12	26.12	—	26.12	—
Level 8 .....	32.43	32.43	—	32.43	—
Level 9 .....	26.45	26.45	—	26.45	—
Level 10 .....	32.27	32.27	—	32.27	—
Level 11 .....	43.30	43.30	—	43.30	—
Level 12 .....	37.72	37.72	—	37.72	—
Computer systems analysts and scientists .....	28.67	28.85	—	28.72	—
Level 7 .....	25.45	25.45	—	25.45	—
Level 8 .....	24.83	24.89	—	24.83	—
Level 9 .....	28.49	28.75	—	28.49	—
Level 11 .....	29.31	29.31	—	29.73	—
Level 12 .....	37.78	37.78	—	37.78	—
Geologists and geodesists .....	36.13	36.13	—	36.13	—
Medical scientists .....	17.99	—	—	17.99	—
Registered nurses .....	21.32	20.61	\$22.65	21.29	\$21.89
Level 6 .....	20.63	20.72	—	20.58	—
Level 7 .....	21.94	20.95	—	21.94	—
Level 8 .....	20.16	20.22	20.08	19.99	22.66
Level 9 .....	23.91	21.03	—	24.24	—
Pharmacists .....	28.33	27.91	—	28.34	—
Respiratory therapists .....	17.68	17.68	—	—	—
Teachers, post secondary N.E.C. ....	28.73	—	—	—	—
Elementary school teachers .....	24.22	19.41	24.30	24.22	—
Level 7 .....	24.19	—	24.17	24.19	—
Level 8 .....	23.61	—	23.61	23.61	—
Secondary school teachers .....	24.59	—	24.65	24.70	—
Level 7 .....	25.09	—	25.08	25.09	—
Level 8 .....	23.95	—	23.95	23.95	—
Teachers, N.E.C. ....	24.51	17.15	26.16	25.96	12.84
Level 5 .....	13.15	13.15	—	—	—
Level 7 .....	26.18	—	—	—	—
Vocational and educational counselors .....	26.39	—	27.40	26.92	—
Librarians .....	18.80	—	18.88	18.84	—
Social workers .....	14.92	—	15.23	14.95	—
Level 7 .....	14.86	—	—	14.86	—
Lawyers .....	37.99	43.17	—	37.99	—
Designers .....	19.97	19.97	—	19.97	—
Technical occupations:					
Clinical laboratory technologists and technicians .....	15.61	15.52	—	15.93	11.79
Level 6 .....	16.84	16.76	—	—	—
Radiological technicians .....	17.87	—	—	17.87	—
Licensed practical nurses .....	13.51	13.67	—	13.34	—
Level 4 .....	12.70	—	—	12.70	—
Level 5 .....	13.71	13.78	—	13.61	—
Level 6 .....	15.16	15.16	—	14.61	—
Health technologists and technicians, N.E.C. ....	14.07	14.38	—	14.13	—
Level 6 .....	15.34	15.97	—	15.34	—
Electrical and electronic technicians .....	18.96	19.02	—	18.96	—
Engineering technicians, N.E.C. ....	20.01	20.89	—	20.01	—
Drafters .....	25.64	25.64	—	25.64	—
Level 8 .....	23.15	23.15	—	23.15	—
Level 9 .....	28.90	28.90	—	28.90	—
Chemical technicians .....	22.22	22.22	—	22.22	—

See footnotes at end of table.

**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>White-collar occupations:</b> (-Continued)					
Technical occupations: (-Continued)					
Computer programmers .....	\$20.69	\$20.85	—	\$20.69	—
Legal assistants .....	19.30	19.30	—	19.30	—
Technical and related occupations, N.E.C. ....	16.81	—	—	16.81	—
Executive, administrative, and managerial occupations:					
Administrators and officials, public administration	26.65	—	\$26.62	26.65	—
Financial managers .....	34.12	34.47	—	34.12	—
Level 9 .....	27.41	—	—	27.41	—
Personnel and labor relations managers .....	38.71	38.71	—	38.71	—
Purchasing managers .....	35.15	35.15	—	35.15	—
Managers, marketing, advertising and public relations	42.27	42.27	—	42.27	—
Level 12 .....	41.11	41.11	—	41.11	—
Administrators, education and related fields .....	31.70	31.82	31.69	31.70	—
Managers, medicine and health .....	25.22	25.35	—	25.22	—
Managers, food servicing and lodging establishments	29.69	32.18	—	29.69	—
Managers and administrators, N.E.C. ....	36.60	38.28	—	36.60	—
Level 7 .....	25.22	22.80	—	25.22	—
Level 8 .....	22.19	—	—	22.19	—
Level 9 .....	26.28	26.28	—	26.28	—
Level 10 .....	32.01	32.01	—	32.01	—
Level 11 .....	34.57	34.57	—	34.57	—
Level 12 .....	44.61	44.61	—	44.61	—
Level 13 .....	52.78	52.78	—	52.78	—
Level 14 .....	65.91	65.91	—	65.91	—
Accountants and auditors .....	23.34	23.34	—	23.34	—
Level 5 .....	18.14	18.14	—	18.14	—
Level 6 .....	18.32	18.32	—	18.32	—
Level 8 .....	26.85	26.85	—	26.85	—
Level 9 .....	24.18	24.18	—	24.18	—
Other financial officers .....	29.64	29.64	—	29.64	—
Management analysts .....	27.69	27.69	—	27.69	—
Level 9 .....	28.02	28.02	—	28.02	—
Personnel, training, and labor relations specialists	26.77	28.91	—	26.94	—
Level 8 .....	29.17	29.17	—	29.17	—
Purchasing agents and buyers, N.E.C. ....	22.99	25.78	—	22.99	—
Management related occupations, N.E.C. ....	25.26	25.43	—	25.26	—
Level 7 .....	21.00	21.00	—	20.97	—
Sales occupations:					
Supervisors, sales occupations .....	22.86	22.86	—	22.86	—
Level 4 .....	9.56	9.56	—	9.56	—
Level 6 .....	17.22	17.22	—	17.22	—
Level 8 .....	20.13	20.13	—	20.13	—
Securities and financial services sales occupations	16.16	16.16	—	17.25	—
Advertising and related sales occupations	19.27	19.27	—	19.27	—
Sales occupations, other business services .....	19.33	19.33	—	19.71	—
Sales representatives, mining, manufacturing, and wholesale	24.47	24.47	—	24.47	—
Sales workers, motor vehicles and boats .....	19.77	19.77	—	19.77	—
Sales workers, parts .....	19.15	19.15	—	19.16	—
Level 4 .....	19.50	19.50	—	19.50	—
Sales workers, other commodities .....	11.49	11.49	—	12.99	\$7.31
Level 4 .....	7.84	7.84	—	—	—
Sales counter clerks .....	8.92	8.92	—	9.59	—
Cashiers .....	6.91	6.86	—	7.75	5.98
Level 1 .....	6.39	6.39	—	7.45	—
Level 2 .....	6.79	6.56	—	7.38	—
Level 3 .....	7.89	7.89	—	8.32	—
Sales support occupations, N.E.C. ....	12.29	12.29	—	12.36	—
Administrative support occupations, including clerical:					
Supervisors, general office .....	13.95	13.85	—	13.95	—

See footnotes at end of table.

**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>White-collar occupations: (-Continued)</b>					
Administrative support occupations, including clerical: (-Continued)					
Supervisors, distribution, scheduling, and adjusting clerks .....	\$19.48	\$19.48	—	\$19.48	—
Computer operators .....	14.44	14.44	—	14.49	—
Secretaries .....	14.27	15.09	\$11.57	14.30	—
Level 3 .....	10.59	—	—	10.63	—
Level 4 .....	13.51	13.99	12.18	13.51	—
Level 5 .....	15.09	15.21	—	15.08	—
Level 6 .....	19.00	19.00	—	19.00	—
Level 7 .....	18.87	18.87	—	18.87	—
Transportation ticket and reservation agents .....	11.67	11.67	—	12.16	—
Receptionists .....	8.93	8.72	—	9.34	\$6.88
Level 1 .....	6.87	6.87	—	—	—
Level 2 .....	9.15	9.15	—	9.21	—
Information clerks, N.E.C. ....	11.39	11.41	—	13.19	—
Order clerks .....	12.91	12.91	—	12.91	—
Personnel clerks except payroll and timekeeping .....	11.81	11.81	—	12.48	—
Library clerks .....	8.59	—	8.57	—	—
Records clerks, N.E.C. ....	11.46	11.20	11.79	11.56	—
Level 3 .....	10.39	—	—	10.40	—
Bookkeepers, accounting and auditing clerks .....	11.45	11.49	—	11.45	—
Level 3 .....	9.72	—	—	9.72	—
Level 4 .....	11.63	11.59	—	11.63	—
Level 5 .....	12.26	12.26	—	12.26	—
Billing clerks .....	12.54	12.70	—	12.54	—
Mail clerks except postal service .....	9.11	—	—	—	—
Dispatchers .....	13.57	—	—	13.57	—
Production coordinators .....	15.30	15.57	—	15.30	—
Traffic, shipping and receiving clerks .....	10.24	9.98	—	10.62	—
Level 3 .....	7.65	7.65	—	—	—
Stock and inventory clerks .....	9.95	10.41	—	10.11	—
Level 4 .....	10.80	10.80	—	10.80	—
Material recording, scheduling, and distribution clerks, N.E.C. ....	13.19	12.68	—	13.19	—
Insurance adjusters, examiners, and investigators .....	13.24	13.24	—	13.24	—
Investigators and adjusters except insurance .....	14.37	14.55	—	14.61	—
Level 4 .....	11.75	11.75	—	11.75	—
Bill and account collectors .....	9.93	9.93	—	9.93	—
General office clerks .....	11.35	12.12	10.33	11.54	8.58
Level 1 .....	8.76	9.96	—	9.27	—
Level 2 .....	9.43	9.62	—	9.94	—
Level 3 .....	9.78	10.21	9.36	9.82	—
Level 4 .....	13.48	14.60	12.41	13.51	—
Level 5 .....	13.60	—	—	12.83	—
Bank tellers .....	9.53	9.53	—	—	—
Data entry keyers .....	9.93	9.93	—	10.03	—
Teachers' aides .....	9.94	—	9.94	9.99	—
Level 2 .....	10.20	—	10.20	—	—
Level 3 .....	9.86	—	9.86	9.86	—
Administrative support occupations, N.E.C. ....	12.54	13.33	11.80	12.62	—
Level 3 .....	10.42	—	—	10.42	—
Level 4 .....	11.47	11.84	10.55	11.62	—
Level 6 .....	15.07	17.55	—	15.07	—
Professional occupations, N.E.C. ....	27.49	29.01	—	29.01	—
<b>Blue-collar occupations:</b>					
Precision production, craft, and repair occupations:					
Supervisors, mechanics and repairers .....	22.32	23.73	—	22.32	—
Automobile mechanics .....	19.27	19.47	—	19.27	—
Level 6 .....	17.94	18.18	—	17.94	—
Bus, truck, and stationary engine mechanics .....	15.86	15.80	—	15.86	—
Industrial machinery repairers .....	15.79	15.84	—	15.79	—

See footnotes at end of table.

**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>Blue-collar occupations: (-Continued)</b>					
Precision production, craft, and repair occupations: (-Continued)					
Industrial machinery repairers (-Continued)					
Level 6 .....	\$15.65	\$15.81	—	\$15.65	—
Mechanics and repairers, N.E.C. ....	16.14	16.42	—	16.14	—
Level 5 .....	13.52	13.52	—	13.52	—
Level 6 .....	16.21	16.35	—	16.21	—
Level 7 .....	22.64	22.64	—	22.64	—
Supervisors, construction trades, N.E.C. ....	17.68	17.66	—	17.68	—
Carpenters .....	15.51	15.51	—	15.51	—
Electricians .....	18.44	18.84	—	18.44	—
Level 6 .....	19.05	19.14	—	19.05	—
Level 7 .....	19.70	19.70	—	19.70	—
Painters, construction and maintenance .....	11.85	12.61	—	11.85	—
Plumbers, pipefitters and steamfitters .....	16.81	16.62	—	16.81	—
Insulation workers .....	11.98	11.98	—	—	—
Construction trades, N.E.C. ....	9.74	9.53	—	9.74	—
Supervisors, production occupations .....	24.00	25.82	—	23.97	—
Level 7 .....	22.79	22.79	—	22.68	—
Level 8 .....	30.00	30.00	—	30.00	—
Machinists .....	18.36	18.36	—	18.35	—
Level 6 .....	18.53	18.53	—	18.53	—
Level 7 .....	19.21	19.21	—	19.19	—
Electrical and electronic equipment assemblers ..	10.34	10.34	—	10.34	—
Butchers and meat cutters .....	11.47	11.47	—	11.47	—
Inspectors, testers, and graders .....	15.89	15.89	—	15.89	—
Miscellaneous plant and system operators,					
N.E.C. ....	23.16	23.16	—	23.16	—
Level 6 .....	22.77	22.77	—	22.77	—
Level 7 .....	23.61	23.61	—	23.61	—
Machine operators, assemblers, and inspectors:					
Punching and stamping press operators .....	9.39	9.39	—	9.39	—
Numerical control machine operators .....	14.88	14.88	—	14.88	—
Printing press operators .....	12.28	12.28	—	12.28	—
Laundering and dry cleaning machine operators ..	7.30	7.30	—	7.32	—
Miscellaneous machine operators, N.E.C. ....	12.38	12.38	—	12.39	—
Level 3 .....	10.96	10.96	—	10.96	—
Welders and cutters .....	12.74	12.74	—	12.74	—
Assemblers .....	8.89	8.89	—	8.97	—
Level 2 .....	7.96	7.96	—	7.98	—
Production inspectors, checkers and examiners ..	13.03	13.04	—	13.03	—
Transportation and material moving occupations:					
Truck drivers .....	12.23	12.34	—	12.27	—
Level 2 .....	10.28	10.47	—	10.33	—
Level 3 .....	12.89	12.90	—	12.89	—
Bus drivers .....	12.96	—	\$12.51	13.86	—
Level 3 .....	13.32	—	13.32	—	—
Industrial truck and tractor equipment operators ..	8.91	8.91	—	8.91	—
Level 2 .....	8.17	8.17	—	8.17	—
Level 3 .....	9.66	9.66	—	9.66	—
Miscellaneous material moving equipment					
operators, N.E.C. ....	14.52	14.79	—	14.72	—
Handlers, equipment cleaners, helpers, and laborers:					
Groundskeepers and gardeners except farm .....	8.91	—	10.05	8.91	—
Helpers, mechanics and repairers .....	10.93	11.23	—	11.24	—
Level 4 .....	11.50	11.72	—	11.50	—
Helpers, construction trades .....	9.96	9.69	—	9.96	—
Level 2 .....	10.13	10.13	—	10.13	—
Construction laborers .....	8.26	8.17	—	8.26	—
Level 1 .....	7.55	7.55	—	7.55	—
Production helpers .....	9.82	9.82	—	9.82	—
Level 2 .....	9.04	9.04	—	9.04	—
Stock handlers and baggers .....	7.24	7.24	—	8.27	\$5.57

See footnotes at end of table.

**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>Blue-collar occupations:</b> (-Continued)					
Handlers, equipment cleaners, helpers, and laborers: (-Continued)					
Stock handlers and baggers (-Continued)					
Level 1 .....	\$6.38	\$6.38	—	\$7.59	\$5.52
Level 2 .....	7.86	7.86	—	7.87	—
Level 3 .....	9.18	9.18	—	9.94	—
Freight, stock, and material handlers, N.E.C. ....	8.40	8.40	—	8.58	7.55
Level 1 .....	6.46	6.46	—	—	—
Level 2 .....	8.67	8.67	—	10.18	—
Vehicle washers and equipment cleaners .....	8.42	8.29	—	8.58	—
Hand packers and packagers .....	7.19	7.19	—	7.74	—
Laborers except construction, N.E.C. ....	8.82	8.67	\$10.69	9.17	6.14
Level 1 .....	6.99	—	—	—	—
Level 2 .....	10.19	9.90	—	11.46	—
<b>Service occupations:</b>					
Protective service occupations:					
Firefighting occupations .....	14.96	—	14.96	—	—
Police and detectives, public service .....	18.24	—	18.24	18.24	—
Sheriffs, bailiffs, and other law enforcement officers .....	16.52	—	16.52	16.52	—
Level 7 .....	16.67	—	16.67	16.67	—
Correctional institution officers .....	11.43	—	11.43	11.43	—
Guards and police except public service .....	8.42	7.77	—	8.65	—
Level 3 .....	8.95	—	—	8.95	—
Food service occupations:					
Supervisors, food preparation and service occupations .....	13.27	13.27	—	13.27	—
Waiters and waitresses .....	3.08	3.08	—	2.92	3.40
Level 1 .....	2.73	2.73	—	2.54	—
Cooks .....	7.57	7.63	—	7.89	—
Level 2 .....	7.06	—	—	—	—
Kitchen workers, food preparation .....	6.55	6.52	—	6.88	5.80
Level 1 .....	6.57	6.53	—	6.67	—
Waiters'/Waitresses' assistants .....	7.59	7.59	—	—	—
Food preparation occupations, N.E.C. ....	6.98	5.97	8.90	7.54	5.63

See footnotes at end of table.

**Table B-2. Mean hourly earnings<sup>1</sup> for selected occupations and levels<sup>2</sup>, all industries, private industry, State and local government, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>3</sup> and level	All workers <sup>4</sup>			All industries	
	All industries	Private industry	State and local government	Full-time workers	Part-time workers
<b>Service occupations: (-Continued)</b>					
Food service occupations: (-Continued)					
Food preparation occupations, N.E.C. (-Continued)					
Level 1 .....	\$6.25	\$5.80	—	\$6.55	\$5.72
Level 2 .....	7.85	—	—	8.51	—
Health service occupations:					
Health aides, except nursing .....	8.92	—	\$9.45	9.02	—
Nursing aides, orderlies and attendants .....	7.76	7.32	8.91	8.15	6.39
Level 2 .....	7.34	6.46	9.06	7.85	—
Level 3 .....	8.71	8.70	—	8.78	—
Cleaning and building service occupations:					
Maids and housemen .....	5.99	5.99	—	6.01	—
Level 1 .....	5.96	5.96	—	5.98	—
Janitors and cleaners .....	7.03	6.27	8.85	7.72	5.56
Level 1 .....	6.31	6.03	8.04	6.93	5.42
Level 2 .....	7.48	6.58	7.97	7.62	—
Level 3 .....	10.40	—	10.70	10.40	—
Personal service occupations:					
Welfare service aides .....	8.65	—	—	8.65	—
Early childhood teachers' assistants .....	8.27	—	8.58	8.34	—
Level 3 .....	8.98	—	8.98	8.98	—
Service occupations, N.E.C. ....	7.97	—	—	8.27	—

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

<sup>2</sup> Each occupation for which wage data are collected in an establishment is evaluated based on 10 factors, including knowledge, complexity, work environment, etc. Points are assigned based on the occupation's ranking within each factor. The points are summed to determine the overall level of the occupation. See technical note for more information.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule

based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Table C-1. Mean hourly earnings<sup>1</sup> by occupational group and selected characteristics, all industries, Houston-Galveston-Brazoria, TX, January 1999**

Occupational group <sup>2</sup>	Full-time workers <sup>3</sup>	Part-time workers <sup>3</sup>	Union <sup>4</sup>	Nonunion <sup>4</sup>	Time <sup>5</sup>	Incentive <sup>5</sup>
<b>All occupations</b> .....	\$18.12	\$7.69	\$19.55	\$17.22	\$17.29	\$19.51
All occupations excluding sales .....	18.11	7.92	19.84	17.28	17.45	17.71
<b>White-collar occupations</b> .....	22.12	9.88	30.47	21.35	21.57	20.26
White-collar excluding sales .....	22.61	12.40	34.55	22.07	22.32	18.43
Professional specialty and technical occupations .....	26.75	17.14	62.70	25.89	26.46	—
Professional specialty occupations .....	28.24	17.90	—	27.92	27.92	—
Technical occupations .....	21.32	14.14	62.70	17.89	21.11	—
Executive, administrative, and managerial occupations ...	31.01	—	—	31.00	30.89	36.82
Sales occupations .....	18.28	6.57	—	16.50	14.41	20.74
Administrative support including clerical occupations .....	12.34	8.89	14.72	12.08	12.20	10.10
<b>Blue-collar occupations</b> .....	13.32	6.88	17.43	12.01	12.80	17.73
Precision production, craft, and repair occupations .....	17.39	9.16	20.50	16.24	17.06	19.13
Machine operators, assemblers, and inspectors .....	11.03	—	16.18	10.22	11.00	—
Transportation and material moving occupations .....	12.91	7.58	15.00	11.63	12.46	—
Handlers, equipment cleaners, helpers, and laborers .....	8.95	6.07	11.30	8.30	8.55	—
<b>Service occupations</b> .....	9.81	5.80	19.98	8.68	8.98	—

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>3</sup> Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>4</sup> Union workers are those whose wages are determined through collective bargaining.

<sup>5</sup> Time workers' wages 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.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Table C-2. Mean hourly earnings<sup>1</sup> by occupational group and industry division, private industry, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999**

Occupational group <sup>3</sup>	All private industries	Goods-producing industries <sup>4</sup>				Service-producing industries <sup>5</sup>				
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Services
<b>All occupations</b> .....	\$17.23	\$19.86	\$31.32	\$17.06	\$18.00	\$15.90	\$21.13	\$13.12	—	\$15.74
All occupations excluding sales .....	17.31	19.74	31.30	17.06	17.83	15.93	21.00	12.80	—	15.83
<b>White-collar occupations</b> .....	21.85	27.61	33.06	27.37	24.04	19.90	24.80	15.76	—	21.21
White-collar excluding sales .....	22.98	27.68	33.08	27.37	23.99	21.05	25.02	17.96	—	21.58
Professional specialty and technical occupations .....	27.52	31.66	37.15	33.11	26.07	25.58	41.83	23.19	—	23.93
Professional specialty occupations .....	29.60	34.60	39.90	33.58	28.69	27.00	29.58	28.43	—	26.70
Technical occupations .....	22.34	22.15	21.62	31.13	20.75	22.41	61.62	—	—	17.15
Executive, administrative, and managerial occupations .....	32.07	34.25	36.67	28.94	35.45	30.85	37.39	29.83	—	31.60
Sales occupations .....	16.40	26.13	—	—	24.67	15.69	22.98	13.84	—	11.68
Administrative support, including clerical occupations .....	12.58	14.82	16.64	14.86	14.13	11.96	13.78	11.36	—	11.30
<b>Blue-collar occupations</b> .....	12.98	14.52	17.17	12.76	15.08	11.02	15.68	11.03	—	8.53
Precision production, craft, and repair occupations .....	17.44	17.53	20.80	13.94	19.44	17.24	19.94	17.49	—	13.82
Machine operators, assemblers, and inspectors .....	11.00	12.31	—	12.81	12.25	8.03	—	—	—	7.44
Transportation and material moving occupations .....	12.46	12.77	—	11.89	12.44	12.30	15.17	11.03	—	10.20
Handlers, equipment cleaners, helpers, and laborers .....	8.46	10.38	—	9.91	10.58	7.39	9.37	7.75	—	6.37
<b>Service occupations</b> .....	7.19	—	—	—	—	7.17	21.81	5.95	—	6.89

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

<sup>2</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

<sup>4</sup> Goods-producing industries include mining, construction, and manufacturing.

<sup>5</sup> Service-producing industries include transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.



**Table C-3. Mean hourly earnings<sup>1</sup> by occupational group and establishment employment size, private industry, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999**

Occupational group <sup>3</sup>	All private industry workers	50 - 99 workers	100 workers or more		
			Total	100 - 499 workers	500 workers or more
<b>All occupations</b> .....	\$17.23	\$14.67	\$17.75	\$15.22	\$20.09
All occupations excluding sales .....	17.31	14.02	17.97	15.12	20.32
<b>White-collar occupations</b> .....	21.85	19.51	22.28	19.89	24.05
White-collar excluding sales .....	22.98	19.48	23.56	21.52	24.72
Professional specialty and technical occupations .....	27.52	23.99	27.84	25.99	28.78
Professional specialty occupations .....	29.60	26.76	29.84	29.53	29.99
Technical occupations .....	22.34	17.92	22.78	18.20	25.48
Executive, administrative, and managerial occupations ...	32.07	28.88	32.72	32.87	32.66
Sales occupations .....	16.40	19.60	15.54	15.86	14.49
Administrative support, including clerical occupations .....	12.58	12.60	12.58	12.42	12.70
<b>Blue-collar occupations</b> .....	12.98	11.12	13.39	11.65	15.51
Precision production, craft, and repair occupations .....	17.44	13.19	18.22	16.58	19.35
Machine operators, assemblers, and inspectors .....	11.00	10.11	11.18	10.62	12.22
Transportation and material moving occupations .....	12.46	11.82	12.81	12.30	13.32
Handlers, equipment cleaners, helpers, and laborers .....	8.46	8.33	8.48	8.07	9.36
<b>Service occupations</b> .....	7.19	5.83	7.54	7.18	7.96

<sup>1</sup> 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, holidays, nonproduction bonuses, and tips. The mean is computed by totaling the pay of all workers and dividing by the number of workers, weighted by hours.

<sup>2</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy.

Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Table C-4. Number of workers<sup>1</sup> represented by occupational group, Houston-Galveston-Brazoria, TX, January 1999**

Occupational group <sup>2</sup>	All workers		
	All industries	Private industry	State and local government
<b>All occupations</b> .....	1,046,362	809,760	236,602
All occupations excluding sales .....	965,790	729,853	235,936
<b>White-collar occupations</b> .....	601,120	434,006	167,115
White-collar excluding sales .....	520,547	354,099	166,448
Professional specialty and technical occupations .....	244,168	144,359	99,809
Professional specialty occupations .....	194,875	101,737	93,137
Technical occupations .....	49,293	42,622	6,672
Executive, administrative, and managerial occupations ...	93,338	74,926	18,412
Sales occupations .....	80,573	79,906	—
Administrative support including clerical occupations .....	183,041	134,814	48,227
<b>Blue-collar occupations</b> .....	297,096	275,549	21,547
Precision production, craft, and repair occupations .....	111,221	102,810	8,411
Machine operators, assemblers, and inspectors .....	57,452	57,357	—
Transportation and material moving occupations .....	40,888	33,511	7,377
Handlers, equipment cleaners, helpers, and laborers .....	87,536	81,871	5,665
<b>Service occupations</b> .....	148,146	100,206	47,941

<sup>1</sup> Both full-time and part-time workers were included in the survey. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another establishment, where a 40-hour week is the minimum full-time schedule.

<sup>2</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

# Appendix A: Technical Note

This section provides basic information on the procedures and concepts used to produce the data contained in this bulletin. It is divided into three parts: Planning for the survey; data collection; and processing and analyzing the data. Although this section answers some questions commonly asked by data users, it is not a comprehensive description of all the steps required to produce the data.

## Planning for the survey

The overall design of the survey includes questions of scope, frame, and sample selection.

### Survey scope

This survey covered establishments employing 50 workers or more in goods-producing industries (mining, construction and manufacturing); service-producing industries (transportation, communications, electric, gas, and sanitary services; wholesale trade; retail trade; finance, insurance, and real estate; and services industries); and State and local governments. Agriculture, private households, and the Federal Government were excluded from the scope of the survey. For purposes of this survey an establishment was an economic unit which produces goods or services, a central administrative office, or an auxiliary unit providing support services to a company. For private industries in this survey, the establishment was usually at a single physical location. For State and local governments, an establishment was defined as all locations of a government entity.

The Houston-Galveston-Brazoria, TX, Metropolitan Statistical Area includes Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties, TX.

### Sampling frame

The list of establishments from which the survey sample was selected (sampling frame) was developed from State unemployment insurance reports. Due to the volatility of industries within the private sector, sampling frames were developed using the most recent month of reference available at the time the sample was selected. The sampling frame was reviewed prior to the survey and, when necessary, missing establishments were added, out-of-business and out-of-scope establishments were removed, and addresses, employment levels, industry classification, and other information were updated.

### Sample design

The sample for this survey area was selected using a two stage stratified design with probability proportional to em-

ployment sampling at each stage. The first stage of sample selection was a probability sample of establishments. The sample of establishments was drawn by first stratifying the sampling frame by industry and ownership. The number of sample establishments allocated to each stratum is approximately proportional to the stratum employment. Each sampled establishment is selected within a stratum with a probability proportional to its employment. Use of this technique means that the larger an establishment's employment, the greater its chance of selection. Weights were applied to each establishment when the data were tabulated so that it represents similar units (by industry and employment size) in the economy which were not selected for collection. See appendix table 1 for a count of establishments in the survey by employment size. The second stage of sample selection, detailed below, was a probability sample of occupations within a sampled establishment.

## Data collection

The collection of data from survey respondents required detailed procedures. Collection was the responsibility of the field economists, working out of the Regional Office, who visited each establishment surveyed. Other contact methods, such as mail and telephone, were used to follow-up and update data.

### Occupational selection and classification

Identification of the occupations for which wage data were to be collected was a multi-step process:

1. Probability-proportional-to-size selection of establishment jobs.
2. Classification of jobs into occupations based on the Census of Population system.
3. Characterization of jobs as full-time v. part-time, union v. nonunion, and time v. incentive.
4. Determination of the level of work of each job.

For each occupation, wage data were collected for those workers who met all the criteria identified in the last three steps. Special procedures were developed for jobs for which a correct classification or level could not be determined.

In step one, the jobs to be sampled were selected at each establishment by the BLS field economist during a personal visit. A complete list of employees was used for sampling, with each selected worker representing a job within the es-

establishment.

As with the selection of establishments, the selection of a job was based on probability proportional to its size in the establishment. The greater the number of people working in a job in the establishment, the greater its chance of selection.

The number of jobs collected in each establishment was based on an establishment's employment size as shown in the following schedule:

<i>Number of employees</i>	<i>Number of selected jobs</i>
50-99	8
100-249	10
250-999	12
1000-2,499	16
2,500+	20

The second step of the process entailed classifying the selected jobs into occupations based on their duties. The National Compensation Survey occupational classification system is based on the 1990 Census of Population. A selected job may fall into any one of about 480 occupational classifications, from accountant to wood lathe operator. In cases where a job's duties overlapped two or more census classification codes, the duties used to set the wage level were used to classify the job. Classification by primary duties was the fallback.

Each occupational classification is an element of a broader classification known as a major occupational group (MOG). Occupations can fall into any of the following MOGs:

- Professional specialty and technical
- Executive, administrative, and managerial
- Sales
- Administrative support including clerical
- Precision production, craft, and repair
- Machine operators, assemblers, and inspectors
- Transportation and material moving
- Handlers, equipment cleaners, helpers, and laborers
- Service occupations

Appendix B contains a complete list of all individual occupations, classified by the MOG to which they belong. In step three, certain other job characteristics of the chosen worker were identified. First, the worker was identified as holding either a full-time or part-time job, based on the establishment's definition of those terms. Then the worker was classified as having a time versus incentive job, depending on whether any part of pay was directly based on the actual production of the worker, rather than solely on hours worked. Finally, the worker was identified as being in a union job or a nonunion job. See the "Definition of Terms" section on the following page for more detail.

### **Generic leveling through point factor analysis**

In the last step before wage data were collected, the work

level of each selected job was determined using a "generic leveling" process. Generic leveling ranks and compares all occupations randomly selected in an establishment using the same criteria. This is a major departure from the method used in the past in the Bureau's Occupational Compensation Surveys which studied specifically defined occupations with leveling definitions unique to each occupation.

For this survey, the level of each occupation in an establishment was determined by an analysis of each of 10 leveling factors. Nine of these factors are drawn from the U.S. Government Office of Personnel Management's Factor Evaluation System, which is the underlying structure for evaluation of General Schedule Federal employees. The tenth factor, supervisory duties, attempts to account for the effect of supervisory duties. It is considered experimental. The 10 factors are:

- Knowledge
- Supervision received
- Guidelines
- Complexity
- Scope and effect
- Personal contacts
- Purpose of contacts
- Physical demands
- Work environment
- Supervisory duties

Each factor contains a number of levels and each level has an associated written description and point value. The number and range of points differ among the factors. For each factor, an occupation was assigned a level based on which written description best matched the job. Within each occupation, the points for 9 factors (supervisory duties was excluded) were recorded and totaled. The total determines the overall level of the occupation. Appendix table 3 presents average work levels for published occupational groups and selected occupations. A description of the levels for each factor is shown in appendix C.

Tabulations of levels of work for occupations in the survey follow the Federal Government's white-collar General Schedule. Point ranges for each of the 15 levels are shown in appendix D. It also includes an example of a leveled job and a guide to help data users evaluate jobs in their firm.

Wage data collected in prior surveys using the new generic leveling method were evaluated by BLS researchers using regression techniques. For each of the major occupational groups, wages were compared to the 10 generic level factors (and levels within those factors). The analysis showed that several of the generic level factors, most notably knowledge and supervision received, had strong explanatory power for wages. That is, as the levels within a given factor increased, the wages also increased. Detailed research continues in the area. The results of this research will be published by BLS in the future.

## Collection period

The survey data were collected over several months. For each establishment in the survey, the data reflect the establishment's most recent information at the time of collection. The payroll reference month shown in the tables reflects the average date of this information for all sample units.

## Earnings

Earnings were defined as regular payments from the employer to the employee as compensation for straight-time hourly work, or for any salaried work performed. The following components were included as part of earnings:

- Incentive pay, including commissions, production bonuses, and piece rates
- Cost-of-living allowances
- Hazard pay
- Payments of income deferred due to participation in a salary reduction plan
- Deadhead pay, defined as pay given to transportation workers returning in a vehicle without freight or passengers

The following forms of payments were *not* considered part of straight-time earnings:

- Shift differentials, defined as extra payment for working a schedule that varies from the norm, such as night or weekend work
- Premium pay for overtime, holidays, and weekends
- Bonuses not directly tied to production (e.g., Christmas bonuses, profit-sharing bonuses)
- Uniform and tool allowances
- Free room and board
- Payments made by third parties (e.g., tips, bonuses given by manufacturers to department store salespeople, referral incentives in real estate)
- On-call pay

In order to calculate earnings for various time periods (hourly, weekly, and annual), data on work schedules were also collected. For hourly workers, scheduled hours worked per day and per week, exclusive of overtime, were recorded. Annual weeks worked were determined. Because salaried workers, exempt from overtime provisions, often work beyond the assigned work schedule, their typical number of hours actually worked was collected.

## Definition of terms

*Full-time worker.* Any employee that the employer considers to be full time.

*Incentive worker.* Any employee whose earnings are tied, at least in part, to commissions, piece rates, production bonuses, or other incentives based on production or sales.

*Level.* A ranking of an occupation based on the require-

ments of the position. (See the description in the technical note and the example for more details on the leveling process.)

*Nonunion worker.* An employee in an occupation not meeting the conditions for union coverage (see below).

*Part-time worker.* Any employee that the employer considers to be part-time.

*Straight-time.* Time worked at the standard rate of pay for the job.

*Time-based worker.* Any employee whose earnings are tied to an hourly rate or salary, and not to a specific level of production.

*Union worker.* Any employee is in a union occupation when all of the following conditions are met:

- A labor organization is recognized as the bargaining agent for all workers in the occupation
- Wage and salary rates are determined through collective bargaining or negotiations
- Settlement terms, which must include earnings provisions and may include benefit provisions, are embodied in a signed mutually binding collective bargaining agreement

## Processing and analyzing the data

Data were processed and analyzed at the Bureau's National Office following collection.

## Weighting and nonresponse

Sample weights were calculated for each establishment and occupation in the survey. These weights reflected the relative size of the occupation within the establishment and of the establishment within the sample universe. Weights were used to aggregate the individual establishments or occupations into the various data series. Some of the establishments surveyed could not supply or refused to supply information. If data were not provided by a sample member, the weights of responding sample members in the same or similar "cells" were adjusted to account for the missing data. This technique assumes that the mean value of the nonrespondents equals the mean value of the respondents at some detailed "cell" level. Responding and nonresponding establishments were classified into these cells according to industry and employment size. Responding and nonresponding occupations within responding establishments were classified into cells that were additionally defined by major occupation group and job level.

Establishments that were determined to be out of business or outside the scope of the survey had their weights changed to zero. If only partial data were given by a sample establishment or occupation, or data were missing, the

response was treated as a refusal.

### Survey response

	Establish- ments
Total in sample	613
Responding	410
Out of business or not in survey scope	58
Unable or refused to pro- vide data	145

Some surveys may have a high nonresponse rate for the all industries or private industry iterations. Such instances are noted in the bulletin table footnotes.

### Estimation

The wage series in the tables are computed by combining the wages for individual establishment/occupations. Before being combined, individual wage rates are weighted by: number of workers; the sample weight adjusted for nonresponding establishments and other factors; and the occupation work schedule, varying depending on whether hourly, weekly, or annual rates are being calculated.

Not all series that were calculated met the criteria for publication. Before any series was published, it was reviewed to make sure that the number of observations underlying it was sufficient. This review prevented publishing a series that could have revealed information about a specific establishment.

The number of workers estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of the number of workers obtained from the sample of establishments serve only to indicate the relative importance of the occupational groups studied.

### Data reliability

The data in this bulletin are estimates from a scientifically selected probability sample. There are two types of errors

possible in an estimate based on a sample survey, sampling and nonsampling.

*Sampling errors* occur because observations come only from a sample and not from an entire population. The sample used for this survey is one of a number of possible samples of the same size that could have been selected using the sample design. Estimates derived from the different samples would differ from each other.

A measure of the variation among these differing estimates is called the standard error or sampling error. It indicates the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error (RSE) is the standard error divided by the estimate. Appendix table 2 contains RSE data for selected series in this bulletin. RSE data for all series in this bulletin are available on the Internet web site and by request to the BLS National Office.

The standard error can be used to calculate a “confidence interval” around a sample estimate. As an example, suppose table A-1 shows that mean hourly earnings for all workers was \$12.79 per hour, and appendix table 2 shows a relative standard error of 3.6 percent for this estimate. At the 90-percent level, the confidence interval for this estimate is \$13.55 to \$12.03 (\$12.79 plus and minus 1.645 times 3.6 percent times \$12.79). If all possible samples were selected to estimate the population value, the interval from each sample would include the true population value approximately 90 percent of the time.

*Nonsampling errors* also affect survey results. They can stem from many sources, such as inability to obtain information for some establishments, difficulties with survey definitions, inability of the respondents to provide correct information, or mistakes in recording or coding the data obtained. A Technical Reinterview Program done in all survey areas will be used in the development of a formal quality assessment process to help compute nonsampling error. Although they were not specifically measured, the nonsampling errors were expected to be minimal due to the extensive training of the field economists who gathered the survey data by personal visit, computer edits of the data, and detailed data review.

**Appendix table 1. Number of establishments studied by industry division and establishment employment size, and number of establishments represented, Houston-Galveston-Brazoria, TX, January 1999**

Industry	Number of establishments represented	Number of establishments studied				
		Total studied	50 - 99 workers	100 workers or more		
				Total	100 - 499 workers	500 workers or more
All industries .....	5,005	401	99	302	162	140
Private industry .....	4,893	361	98	263	155	108
Goods-producing industries .....	1,205	116	20	96	47	49
Mining .....	87	21	1	20	7	13
Construction .....	390	27	8	19	8	11
Manufacturing .....	728	68	11	57	32	25
Service-producing industries .....	3,688	245	78	167	108	59
Transportation and public utilities .....	361	29	7	22	12	10
Wholesale and retail trade .....	1,709	81	26	55	44	11
Finance, insurance and real estate .....	330	17	9	8	2	6
Services .....	1,288	118	36	82	50	32
State and local government .....	112	40	1	39	7	32

NOTE: Dashes indicate that no data were reported. Overall industry and industry groups may include data for categories not shown separately.

**Appendix table 2. Relative standard errors of mean hourly earnings<sup>1</sup> for selected occupations, all industries, private industry, and State and local government, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999**

(in percent)

Occupation <sup>3</sup>	All industries	Private industry	State and local government
<b>All occupations</b> .....	2.2	2.7	3.3
All occupations excluding sales .....	2.2	2.7	3.3
<b>White-collar occupations</b> .....	2.2	2.6	3.9
White-collar occupations excluding sales .....	2.2	2.6	3.9
Professional specialty and technical occupations .....	2.6	3.2	4.3
Professional specialty occupations .....	2.5	3.0	4.3
Engineers, architects, and surveyors .....	4.0	4.0	—
Petroleum engineers .....	8.4	8.4	—
Chemical engineers .....	5.5	5.5	—
Civil engineers .....	8.8	8.8	—
Electrical and electronic engineers .....	5.7	5.7	—
Industrial engineers .....	7.8	7.8	—
Mechanical engineers .....	9.2	9.2	—
Engineers, N.E.C. ....	4.4	4.4	—
Mathematical and computer scientists .....	3.9	3.9	—
Computer systems analysts and scientists .....	4.1	4.2	—
Natural scientists .....	11.8	10.8	—
Geologists and geodesists .....	12.7	12.7	—
Medical scientists .....	23.2	—	—
Health related occupations .....	3.7	5.0	4.4
Registered nurses .....	2.3	2.1	4.2
Pharmacists .....	3.4	1.4	—
Respiratory therapists .....	4.4	4.4	—
Teachers, college and university .....	8.5	35.2	8.5
Teachers, post secondary N.E.C. ....	11.7	—	—
Teachers, except college and university .....	1.6	8.6	1.6
Elementary school teachers .....	1.1	12.4	1.1
Secondary school teachers .....	1.3	—	1.3
Teachers, N.E.C. ....	4.5	17.3	4.3
Vocational and educational counselors .....	8.7	—	8.1
Librarians, archivists, and curators .....	14.1	—	16.1
Librarians .....	14.1	—	16.1
Social scientists and urban planners .....	12.7	—	—
Social, recreation, and religious workers .....	7.0	15.3	7.6
Social workers .....	7.4	—	7.6
Lawyers and judges .....	18.7	23.8	—
Lawyers .....	21.0	25.5	—
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	11.2	12.1	—
Designers .....	31.1	31.1	—
Professional occupations, N.E.C. ....	12.5	12.9	—
Technical occupations .....	7.8	8.4	8.9
Clinical laboratory technologists and technicians .....	9.8	10.2	—
Radiological technicians .....	14.6	—	—
Licensed practical nurses .....	1.8	2.0	—
Health technologists and technicians, N.E.C. ....	5.0	5.0	—
Electrical and electronic technicians .....	8.8	8.8	—
Engineering technicians, N.E.C. ....	8.0	9.3	—
Drafters .....	6.6	6.6	—
Chemical technicians .....	7.0	7.0	—
Computer programmers .....	7.6	10.5	—
Legal assistants .....	4.2	4.2	—
Technical and related occupations, N.E.C. ....	10.1	—	—
Executive, administrative, and managerial occupations ...	2.7	2.9	5.9
Executives, administrators, and managers .....	3.3	3.4	6.3
Administrators and officials, public administration .....	13.9	—	14.0
Financial managers .....	10.6	10.9	—
Personnel and labor relations managers .....	12.8	12.8	—
Purchasing managers .....	11.2	11.2	—
Managers, marketing, advertising and public relations .....	8.0	8.0	—
Administrators, education and related fields .....	5.3	14.8	5.5
Managers, medicine and health .....	9.6	10.1	—

See footnotes at end of table.



**Appendix table 2. Relative standard errors of mean hourly earnings<sup>1</sup> for selected occupations, all industries, private industry, and State and local government, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

(in percent)

Occupation <sup>3</sup>	All industries	Private industry	State and local government
<b>White-collar occupations (-Continued)</b>			
Executive, administrative, and managerial occupations (-Continued)			
Executives, administrators, and managers (-Continued)			
Managers, food servicing and lodging establishments .....	30.4	29.8	—
Managers and administrators, N.E.C. ....	4.7	4.3	—
Management related occupations .....	4.5	4.7	8.9
Accountants and auditors .....	3.3	3.3	—
Other financial officers .....	9.0	9.0	—
Management analysts .....	6.2	6.2	—
Personnel, training, and labor relations specialists .....	10.1	10.2	—
Purchasing agents and buyers, N.E.C. ....	12.4	9.8	—
Management related occupations, N.E.C. ....	7.7	8.5	—
Sales occupations .....	9.1	9.1	—
Supervisors, sales occupations .....	10.7	10.7	—
Securities and financial services sales occupations .....	24.2	24.2	—
Advertising and related sales occupations .....	18.8	18.8	—
Sales occupations, other business services .....	10.7	10.7	—
Sales representatives, mining, manufacturing, and wholesale .....	9.9	9.9	—
Sales workers, motor vehicles and boats .....	24.6	24.6	—
Sales workers, parts .....	4.7	4.7	—
Sales workers, other commodities .....	14.2	14.2	—
Sales counter clerks .....	9.0	9.0	—
Cashiers .....	2.6	2.7	—
Sales support occupations, N.E.C. ....	11.7	11.7	—
Administrative support occupations, including clerical .....	1.6	1.9	2.6
Supervisors, general office .....	4.7	5.7	—
Supervisors, distribution, scheduling, and adjusting clerks .....	9.1	9.1	—
Computer operators .....	11.5	11.5	—
Secretaries .....	2.9	3.1	4.9
Transportation ticket and reservation agents .....	14.8	14.8	—
Receptionists .....	4.9	4.8	—
Information clerks, N.E.C. ....	12.5	14.5	—
Order clerks .....	9.1	9.1	—
Personnel clerks except payroll and timekeeping .....	8.9	8.9	—
Library clerks .....	5.5	—	6.0
Records clerks, N.E.C. ....	4.4	6.3	5.6
Bookkeepers, accounting and auditing clerks .....	3.4	3.5	—
Billing clerks .....	10.1	11.3	—
Mail clerks except postal service .....	8.3	—	—
Dispatchers .....	15.8	—	—
Production coordinators .....	7.1	7.3	—
Traffic, shipping and receiving clerks .....	11.2	12.1	—
Stock and inventory clerks .....	6.3	5.4	—
Material recording, scheduling, and distribution clerks, N.E.C. ....	13.2	15.0	—
Insurance adjusters, examiners, and investigators .....	4.2	4.2	—
Investigators and adjusters except insurance .....	9.0	9.0	—
Bill and account collectors .....	13.4	13.4	—
General office clerks .....	3.2	4.1	5.2
Bank tellers .....	5.1	5.1	—
Data entry keyers .....	11.3	11.3	—
Teachers' aides .....	2.1	—	2.1
Administrative support occupations, N.E.C. ....	5.4	6.5	8.6
<b>Blue-collar occupations</b> .....	2.9	3.1	3.5
Precision production, craft, and repair occupations .....	2.8	2.9	5.5

See footnotes at end of table.

**Appendix table 2. Relative standard errors of mean hourly earnings<sup>1</sup> for selected occupations, all industries, private industry, and State and local government, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

(in percent)

Occupation <sup>3</sup>	All industries	Private industry	State and local government
<b>Blue-collar occupations</b> (-Continued)			
Precision production, craft, and repair occupations (-Continued)			
Supervisors, mechanics and repairers .....	9.5	9.5	—
Automobile mechanics .....	10.4	10.6	—
Bus, truck, and stationary engine mechanics .....	5.7	6.7	—
Industrial machinery repairers .....	6.6	6.8	—
Mechanics and repairers, N.E.C. ....	6.0	6.6	—
Supervisors, construction trades, N.E.C. ....	4.7	5.1	—
Carpenters .....	4.1	4.1	—
Electricians .....	3.6	3.7	—
Painters, construction and maintenance .....	5.4	6.0	—
Plumbers, pipefitters and steamfitters .....	7.4	9.0	—
Insulation workers .....	7.8	7.8	—
Construction trades, N.E.C. ....	13.4	14.3	—
Supervisors, production occupations .....	8.0	5.6	—
Machinists .....	4.9	4.9	—
Electrical and electronic equipment assemblers ..	5.8	5.8	—
Butchers and meat cutters .....	3.9	3.9	—
Inspectors, testers, and graders .....	7.1	7.1	—
Miscellaneous plant and system operators, N.E.C. ....	1.3	1.3	—
Machine operators, assemblers, and inspectors .....	5.4	5.4	—
Punching and stamping press operators .....	15.3	15.3	—
Numerical control machine operators .....	10.0	10.0	—
Printing press operators .....	8.0	8.0	—
Laundering and dry cleaning machine operators .....	4.0	4.0	—
Miscellaneous machine operators, N.E.C. ....	8.5	8.5	—
Welders and cutters .....	6.2	6.2	—
Assemblers .....	8.6	8.6	—
Production inspectors, checkers and examiners ..	9.1	9.3	—
Transportation and material moving occupations .....	4.4	5.0	4.7
Truck drivers .....	5.6	5.7	—
Bus drivers .....	5.5	—	4.1
Industrial truck and tractor equipment operators ..	5.7	5.7	—
Miscellaneous material moving equipment operators, N.E.C. ....	11.9	12.2	—
Handlers, equipment cleaners, helpers, and laborers .....	3.6	3.8	5.1
Groundskeepers and gardeners except farm .....	8.0	—	7.9
Helpers, mechanics and repairers .....	7.5	8.8	—
Helpers, construction trades .....	5.6	6.5	—
Construction laborers .....	8.8	9.0	—
Production helpers .....	9.0	9.0	—
Stock handlers and baggers .....	4.3	4.3	—
Freight, stock, and material handlers, N.E.C. ....	11.8	11.8	—
Vehicle washers and equipment cleaners .....	6.6	6.8	—
Hand packers and packagers .....	6.6	6.6	—
Laborers except construction, N.E.C. ....	10.3	11.0	8.5
<b>Service occupations</b> .....			
Protective service occupations .....	3.9	4.1	4.3
Firefighting occupations .....	6.9	5.0	3.7
Police and detectives, public service .....	2.4	—	2.4
Sheriffs, bailiffs, and other law enforcement officers .....	4.3	—	4.3
Correctional institution officers .....	3.4	—	3.4
Guards and police except public service .....	2.6	—	2.6
Food service occupations .....	8.4	5.3	—
Supervisors, food preparation and service occupations .....	5.2	5.8	4.2
Waiters and waitresses .....	7.6	7.6	—
Cooks .....	12.5	12.5	—
Kitchen workers, food preparation .....	5.3	5.7	—
Waiters/Waitresses' assistants .....	3.5	3.7	—
	23.8	23.8	—

See footnotes at end of table.

**Appendix table 2. Relative standard errors of mean hourly earnings<sup>1</sup> for selected occupations, all industries, private industry, and State and local government, all workers<sup>2</sup>, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

(in percent)

Occupation <sup>3</sup>	All industries	Private industry	State and local government
<b>Service occupations (-Continued)</b>			
Food service occupations (-Continued)			
Food preparation occupations, N.E.C. ....	5.2	4.5	3.8
Health service occupations .....	4.2	5.5	3.4
Health aides, except nursing .....	4.4	—	4.1
Nursing aides, orderlies and attendants .....	5.6	6.2	6.0
Cleaning and building service occupations .....	4.7	4.8	5.9
Maids and housemen .....	2.5	2.5	—
Janitors and cleaners .....	5.2	4.4	5.9
Personal service occupations .....	12.2	16.5	3.8
Welfare service aides .....	8.8	—	—
Early childhood teachers' assistants .....	7.0	—	5.8
Service occupations, N.E.C. ....	8.6	—	—

<sup>1</sup> The relative standard error is the standard error expressed as a percent of the estimate. Hourly earnings for these occupations are presented in Tables A-1 and A-2. Reliable relative standard errors could not be determined for all occupations.

<sup>2</sup> All workers include full-time and part-time workers. Employees are classified as working either a full-time or a part-time schedule based on the definition used by each establishment. Therefore, a worker with a 35-hour-per-week schedule might be considered a full-time employee in one establishment, but classified as part-time in another firm, where a 40-hour week is the minimum full-time schedule.

<sup>3</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are

classified into one of nine major occupational groups.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.

**Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999**

Occupation <sup>1</sup>	All workers	Full-time workers	Part-time workers
<b>All occupations</b> .....	5	6	3
All occupations excluding sales .....	5	6	3
<b>White-collar occupations</b> .....	7	7	4
White-collar occupations excluding sales .....	7	7	5
Professional specialty and technical occupations .....	8	8	7
Professional specialty occupations .....	8	9	7
Engineers, architects, and surveyors .....	10	10	—
Petroleum engineers .....	11	11	—
Chemical engineers .....	10	10	—
Civil engineers .....	11	11	—
Electrical and electronic engineers .....	10	10	—
Industrial engineers .....	10	10	—
Mechanical engineers .....	9	9	—
Engineers, N.E.C. ....	10	10	—
Mathematical and computer scientists .....	9	9	—
Computer systems analysts and scientists .....	9	9	—
Natural scientists .....	9	9	—
Geologists and geodesists .....	9	9	—
Medical scientists .....	9	9	—
Health related occupations .....	8	8	7
Registered nurses .....	8	8	8
Pharmacists .....	8	8	—
Respiratory therapists .....	6	—	—
Teachers, college and university .....	11	12	7
Teachers, post secondary N.E.C. ....	8	—	—
Teachers, except college and university .....	7	7	6
Elementary school teachers .....	7	7	—
Secondary school teachers .....	7	7	—
Teachers, N.E.C. ....	7	7	6
Vocational and educational counselors .....	8	9	—
Librarians, archivists, and curators .....	7	7	—
Librarians .....	7	7	—
Social scientists and urban planners .....	11	11	—
Social, recreation, and religious workers .....	7	7	—
Social workers .....	7	7	—
Lawyers and judges .....	11	11	—
Lawyers .....	11	11	—
Writers, authors, entertainers, athletes, and professionals, N.E.C. ....	8	8	—
Designers .....	6	6	—
Professional occupations, N.E.C. ....	8	8	—
Technical occupations .....	6	6	5
Clinical laboratory technologists and technicians .....	6	6	5
Radiological technicians .....	7	7	—
Licensed practical nurses .....	5	5	—
Health technologists and technicians, N.E.C. ....	5	5	—
Electrical and electronic technicians .....	6	6	—
Engineering technicians, N.E.C. ....	7	7	—
Drafters .....	8	8	—
Chemical technicians .....	5	5	—
Computer programmers .....	7	7	—
Legal assistants .....	7	7	—
Technical and related occupations, N.E.C. ....	6	6	—
Executive, administrative, and managerial occupations .....	9	9	—
Executives, administrators, and managers .....	10	10	—
Administrators and officials, public administration .....	8	8	—
Financial managers .....	10	10	—
Personnel and labor relations managers .....	12	12	—
Purchasing managers .....	10	10	—
Managers, marketing, advertising and public relations ..	12	12	—
Administrators, education and related fields .....	10	10	—
Managers, medicine and health .....	9	9	—
Managers, food servicing and lodging establishments ...	8	8	—
Managers and administrators, N.E.C. ....	11	11	—
Management related occupations .....	8	8	—
Accountants and auditors .....	7	7	—
Other financial officers .....	10	10	—

See footnotes at end of table.

**Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>1</sup>	All workers	Full-time workers	Part-time workers
<b>White-collar occupations</b> (-Continued)			
Executive, administrative, and managerial occupations (-Continued)			
Management related occupations (-Continued)			
Management analysts .....	8	8	—
Personnel, training, and labor relations specialists .....	8	8	—
Purchasing agents and buyers, N.E.C. ....	7	7	—
Management related occupations, N.E.C. ....	8	8	—
Sales occupations .....	5	5	2
Supervisors, sales occupations .....	8	8	—
Securities and financial services sales occupations .....	6	6	—
Advertising and related sales occupations .....	6	6	—
Sales occupations, other business services .....	6	6	—
Sales representatives, mining, manufacturing, and wholesale .....	8	8	—
Sales workers, motor vehicles and boats .....	4	4	—
Sales workers, parts .....	4	4	—
Sales workers, other commodities .....	4	4	4
Sales counter clerks .....	2	3	—
Cashiers .....	2	2	2
Sales support occupations, N.E.C. ....	4	4	—
Administrative support occupations, including clerical .....	4	4	3
Supervisors, general office .....	6	6	—
Supervisors, distribution, scheduling, and adjusting clerks .....	7	7	—
Computer operators .....	5	5	—
Secretaries .....	5	5	—
Transportation ticket and reservation agents .....	4	4	—
Receptionists .....	2	3	1
Information clerks, N.E.C. ....	4	4	—
Order clerks .....	5	5	—
Personnel clerks except payroll and timekeeping .....	5	5	—
Library clerks .....	3	—	—
Records clerks, N.E.C. ....	3	4	—
Bookkeepers, accounting and auditing clerks .....	4	4	—
Billing clerks .....	5	5	—
Mail clerks except postal service .....	3	—	—
Dispatchers .....	4	4	—
Production coordinators .....	5	5	—
Traffic, shipping and receiving clerks .....	3	3	—
Stock and inventory clerks .....	3	3	—
Material recording, scheduling, and distribution clerks, N.E.C. ....	5	5	—
Insurance adjusters, examiners, and investigators .....	5	5	—
Investigators and adjusters except insurance .....	5	5	—
Bill and account collectors .....	3	3	—
General office clerks .....	3	3	2
Bank tellers .....	3	—	—
Data entry keyers .....	3	3	—
Teachers' aides .....	3	3	—
Administrative support occupations, N.E.C. ....	4	4	—
<b>Blue-collar occupations</b> .....	4	4	2
Precision production, craft, and repair occupations .....	6	6	3
Supervisors, mechanics and repairers .....	8	8	—
Automobile mechanics .....	6	6	—
Bus, truck, and stationary engine mechanics .....	6	6	—
Industrial machinery repairers .....	6	6	—
Mechanics and repairers, N.E.C. ....	6	6	—
Supervisors, construction trades, N.E.C. ....	7	7	—
Carpenters .....	6	6	—
Electricians .....	6	6	—
Painters, construction and maintenance .....	4	4	—
Plumbers, pipefitters and steamfitters .....	6	6	—
Insulation workers .....	5	—	—
Construction trades, N.E.C. ....	3	3	—
Supervisors, production occupations .....	7	7	—
Machinists .....	6	6	—

See footnotes at end of table.

**Appendix table 3. Average work levels for selected occupations, all workers, full-time and part-time workers, Houston-Galveston-Brazoria, TX, January 1999 — Continued**

Occupation <sup>1</sup>	All workers	Full-time workers	Part-time workers
<b>Blue-collar occupations</b> (-Continued)			
Precision production, craft, and repair occupations (-Continued)			
Electrical and electronic equipment assemblers .....	4	4	—
Butchers and meat cutters .....	5	5	—
Inspectors, testers, and graders .....	5	5	—
Miscellaneous plant and system operators, N.E.C. ....	7	7	—
Machine operators, assemblers, and inspectors .....	4	4	—
Punching and stamping press operators .....	3	3	—
Numerical control machine operators .....	5	5	—
Printing press operators .....	4	4	—
Laundry and dry cleaning machine operators .....	2	2	—
Miscellaneous machine operators, N.E.C. ....	3	3	—
Welders and cutters .....	6	6	—
Assemblers .....	2	2	—
Production inspectors, checkers and examiners .....	6	6	—
Transportation and material moving occupations .....	3	4	2
Truck drivers .....	3	3	—
Bus drivers .....	3	3	—
Industrial truck and tractor equipment operators .....	3	3	—
Miscellaneous material moving equipment operators, N.E.C. ....	3	3	—
Handlers, equipment cleaners, helpers, and laborers .....	2	2	2
Groundskeepers and gardeners except farm .....	2	2	—
Helpers, mechanics and repairers .....	3	3	—
Helpers, construction trades .....	3	3	—
Construction laborers .....	2	2	—
Production helpers .....	2	2	—
Stock handlers and baggers .....	2	2	1
Freight, stock, and material handlers, N.E.C. ....	2	2	2
Vehicle washers and equipment cleaners .....	2	2	—
Hand packers and packagers .....	2	2	—
Laborers except construction, N.E.C. ....	2	2	2
<b>Service occupations</b> .....	3	3	2
Protective service occupations .....	5	5	—
Firefighting occupations .....	5	—	—
Police and detectives, public service .....	6	6	—
Sheriffs, bailiffs, and other law enforcement officers .....	7	7	—
Correctional institution officers .....	5	5	—
Guards and police except public service .....	3	3	—
Food service occupations .....	2	2	2
Supervisors, food preparation and service occupations .....	5	5	—
Waiters and waitresses .....	2	2	2
Cooks .....	3	3	—
Kitchen workers, food preparation .....	2	2	2
Waiters/Waitresses' assistants .....	2	—	—
Food preparation occupations, N.E.C. ....	2	2	2
Health service occupations .....	3	3	2
Health aides, except nursing .....	3	3	—
Nursing aides, orderlies and attendants .....	2	2	2
Cleaning and building service occupations .....	2	2	1
Maids and housemen .....	1	1	—
Janitors and cleaners .....	2	2	1
Personal service occupations .....	3	3	2
Welfare service aides .....	3	3	—
Early childhood teachers' assistants .....	3	3	—
Service occupations, N.E.C. ....	4	4	—

<sup>1</sup> A classification system including about 480 individual occupations is used to cover all workers in the civilian economy. Individual occupations are classified into one of nine major occupational groups. The occupations titled authors, musicians, actors, painters, photographers, dancers, artists, athletes, and legislators cannot be assigned a work level.

NOTE: Dashes indicate that no data were reported or that data did not meet publication criteria. Overall occupational groups and occupational levels may

include data for categories not shown separately. N.E.C. means "not elsewhere classified."

NOTE: Individual and average wage rates were collected in this update survey. A procedure was put into place to "move" the positional statistics where averages were collected. This procedure compares current locality survey data—at the quote level—with the same quote from the prior survey. Individual rates from the prior survey are moved by the average change in mean wages for the occupation.