

11. Employed persons by detailed occupation, sex, race, and Hispanic origin

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Total, 16 years and over	133,488	46.5	11.3	10.3
Managerial and professional specialty	40,467	49.5	8.0	5.0
Executive, administrative, and managerial	19,584	45.1	7.6	5.6
Officials and administrators, public administration	655	51.1	14.0	4.9
Administrators, protective services	51	27.8	11.2	3.6
Financial managers	753	51.1	7.0	5.4
Personnel and labor relations managers	196	60.4	10.9	6.3
Purchasing managers	138	47.4	8.9	5.6
Managers, marketing, advertising, and public relations	739	37.6	4.8	2.7
Administrators, education and related fields	821	62.5	15.0	4.8
Managers, medicine and health	716	77.4	8.9	6.6
Postmasters and mail superintendents	50	55.4	9.9	3.8
Managers, food serving and lodging establishments	1,489	46.1	7.5	8.6
Managers, properties and real estate	577	49.4	6.6	8.9
Management-related occupations	4,879	57.8	9.8	5.3
Accountants and auditors	1,658	58.6	9.6	4.9
Underwriters	131	68.7	14.5	1.7
Other financial officers	808	51.6	9.5	4.5
Management analysts	432	43.2	7.6	3.6
Personnel, training, and labor relations specialists	542	68.5	11.4	5.3
Buyers, wholesale and retail trade, except farm products	193	54.5	6.3	7.4
Construction inspectors	69	10.6	1.9	12.8
Inspectors and compliance officers, except construction	254	33.7	15.1	6.7
Professional specialty	20,883	53.5	8.4	4.5
Engineers, architects, and surveyors	2,291	11.0	4.4	3.6
Architects	194	15.7	2.3	4.4
Engineers	2,081	10.6	4.6	3.5
Aerospace engineers	79	11.5	7.5	4.8
Chemical engineers	82	16.3	2.7	5.0
Civil engineers	287	9.5	5.5	3.3
Electrical and electronic engineers	639	10.1	6.1	4.1
Industrial engineers	260	16.8	4.1	3.2
Mechanical engineers	340	7.1	1.9	2.4
Mathematical and computer scientists	1,847	31.1	7.5	3.6
Computer systems analysts and scientists	1,549	28.5	7.4	3.4
Operations and systems researchers and analysts	241	46.6	8.4	5.2
Natural scientists	578	30.1	3.7	3.6
Chemists, except biochemists	136	27.4	5.7	3.5
Geologists and geodesists	56	4.9	—	3.2
Biological and life scientists	109	43.8	3.2	4.1
Medical scientists	100	44.9	6.1	5.3
Health diagnosing occupations	1,071	24.1	4.4	4.1
Physicians	720	24.5	5.7	4.8
Dentists	173	16.5	1.9	3.1
Veterinarians	53	27.3	2.3	—
Health assessment and treating occupations	3,019	85.7	9.1	3.4
Registered nurses	2,128	92.9	9.6	3.1
Pharmacists	216	49.0	5.6	3.5
Dietitians	92	84.0	19.5	4.6
Therapists	517	75.8	7.5	4.5
Respiratory therapists	90	60.6	17.6	3.3
Occupational therapists	71	86.9	5.5	2.2
Physical therapists	144	73.2	5.3	5.3
Speech therapists	99	93.1	1.1	4.2
Physicians' assistants	67	52.6	4.3	2.6
Teachers, college and university	978	42.4	6.5	4.2
Teachers, except college and university	5,277	74.9	9.9	5.4
Prekindergarten and kindergarten	600	98.4	13.4	8.2
Elementary school	2,072	83.8	10.3	5.1
Secondary school	1,342	57.5	7.9	5.0
Special education	369	84.4	9.1	2.8
Counselors, educational and vocational	247	68.7	18.1	5.7
Librarians, archivists, and curators	264	82.9	7.6	4.8
Librarians	236	83.7	7.7	4.8
Social scientists and urban planners	460	58.4	8.1	3.1
Economists	141	51.2	6.1	1.9
Psychologists	266	64.9	9.9	3.5

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Social, recreation, and religious workers	1,435	56.4	18.5	6.3
Social workers	813	71.4	24.2	7.4
Recreation workers	128	66.4	18.0	7.0
Clergy	352	14.2	10.3	5.2
Lawyers and judges	964	28.9	5.2	3.9
Lawyers	923	28.8	5.1	4.0
Writers, artists, entertainers, and athletes	2,454	49.9	6.6	5.3
Authors	148	55.2	7.3	2.3
Technical writers	71	60.2	5.7	.1
Designers	722	56.2	3.7	5.5
Musicians and composers	172	35.6	9.2	7.1
Actors and directors	129	38.8	10.7	5.1
Painters, sculptors, craft artists, and artist printmakers	252	54.8	5.2	3.8
Photographers	166	34.5	7.1	8.2
Editors and reporters	290	49.8	4.5	2.7
Public relations specialists	190	61.0	7.5	4.9
Announcers	50	21.4	8.9	9.2
Athletes	110	28.0	19.0	3.4
Technical, sales, and administrative support	38,921	63.8	11.2	8.4
Technicians and related support	4,355	51.9	10.7	6.4
Health technologists and technicians	1,701	81.2	14.4	7.3
Clinical laboratory technologists and technicians	338	78.5	19.4	5.6
Dental hygienists	106	99.1	2.8	1.5
Radiologic technicians	167	74.4	9.7	4.1
Licensed practical nurses	357	95.1	18.4	5.8
Engineering and related technologists and technicians	973	19.1	9.7	6.2
Electrical and electronic technicians	437	14.5	11.3	6.5
Drafting occupations	235	18.3	6.5	5.6
Surveying and mapping technicians	67	11.0	4.5	7.9
Science technicians	293	40.8	11.0	7.3
Biological technicians	106	64.1	6.8	4.8
Chemical technicians	79	28.9	14.9	9.9
Technicians, except health, engineering, and science	1,388	41.5	7.0	5.3
Airplane pilots and navigators	143	3.1	2.7	4.3
Computer programmers	665	26.3	6.4	3.8
Legal assistants	403	83.9	8.7	7.1
Sales occupations	16,118	50.1	8.7	7.9
Supervisors and proprietors	4,896	40.9	6.1	6.8
Sales representatives, finance and business services	2,735	43.9	7.2	5.0
Insurance sales	585	44.0	5.8	4.6
Real estate sales	769	53.2	5.5	5.0
Securities and financial services sales	541	28.5	6.8	3.7
Advertising and related sales	187	57.1	11.9	4.1
Sales occupations, other business services	653	41.9	9.5	6.4
Sales representatives, commodities, except retail	1,526	26.8	2.9	5.4
Sales representatives, mining, manufacturing, and wholesale	1,488	27.3	2.8	5.4
Sales workers, retail and personal services	6,866	63.9	12.5	10.4
Sales workers, motor vehicles and boats	320	10.7	7.1	8.6
Sales workers, apparel	411	77.7	13.7	11.7
Sales workers, shoes	129	53.9	22.4	14.1
Sales workers, furniture and home furnishings	181	52.0	2.7	7.9
Sales workers, radio, television, hi-fi, and appliances	302	27.2	7.0	9.3
Sales workers, hardware and building supplies	287	25.0	4.9	7.3
Sales workers, parts	173	10.1	5.7	14.5
Sales workers, other commodities	1,386	67.8	9.6	8.6
Sales counter clerks	198	63.3	8.8	7.4
Cashiers	3,014	77.0	16.7	12.0
Street and door-to-door sales workers	365	73.8	9.3	8.9
News vendors	101	45.8	9.5	3.0
Sales-related occupations	95	67.7	8.6	3.0
Demonstrators, promoters, and models	66	70.6	11.1	3.7
Administrative support occupations, including clerical	18,448	78.7	13.5	9.4
Supervisors, administrative support	675	57.5	17.5	8.2
Supervisors, general office	360	67.4	15.8	7.4
Supervisors, financial records processing	82	81.9	13.6	10.7
Supervisors, distribution, scheduling, and adjusting clerks	216	33.1	20.5	8.9
Computer equipment operators	356	57.0	13.9	7.2

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Computer operators	350	57.3	13.9	7.3
Secretaries, stenographers, and typists	3,457	97.9	10.4	7.8
Secretaries	2,781	98.6	9.5	7.7
Stenographers	120	92.5	5.4	5.7
Typists	556	95.5	15.6	8.5
Information clerks	2,143	88.3	10.7	11.0
Interviewers	171	84.4	12.3	12.5
Hotel clerks	125	76.1	15.4	15.9
Transportation ticket and reservation agents	286	74.1	9.8	10.8
Receptionists	1,091	95.4	10.2	10.3
Records processing, except financial	1,047	77.8	16.9	10.8
Order clerks	270	72.7	21.5	12.0
Personnel clerks, except payroll and timekeeping	70	83.3	24.6	5.4
Library clerks	151	74.4	9.8	11.1
File clerks	345	79.2	16.2	11.2
Records clerks	202	82.0	15.2	10.3
Financial records processing	2,181	90.8	8.9	6.4
Bookkeepers, accounting, and auditing clerks	1,691	91.4	7.6	5.6
Payroll and timekeeping clerks	146	88.2	8.7	9.3
Billing clerks	179	92.0	15.9	8.7
Cost and rate clerks	60	83.6	17.9	13.7
Billing, posting, and calculating machine operators	105	88.1	12.1	7.4
Duplicating, mail and other office machine operators	63	56.7	20.2	8.4
Communications equipment operators	158	81.7	18.6	13.7
Telephone operators	142	83.7	20.2	12.2
Mail and message distributing	990	42.2	21.1	8.4
Postal clerks, except mail carriers	313	50.8	28.4	7.5
Mail carriers, postal service	332	31.8	15.0	5.6
Mail clerks, except postal service	194	60.5	24.6	13.5
Messengers	151	23.3	15.2	9.6
Material recording, scheduling, and distributing clerks	1,959	45.5	13.2	12.8
Dispatchers	274	52.6	14.2	9.2
Production coordinators	208	60.2	10.0	4.4
Traffic, shipping, and receiving clerks	646	33.7	14.8	17.9
Stock and inventory clerks	459	41.8	12.5	11.2
Expeditors	264	68.1	11.1	13.6
Adjusters and investigators	1,802	75.5	18.1	7.9
Insurance adjusters, examiners, and investigators	472	71.3	15.4	7.6
Investigators and adjusters, except insurance	1,054	77.4	17.8	7.6
Eligibility clerks, social welfare	102	85.4	20.8	16.1
Bill and account collectors	175	69.8	24.9	6.3
Miscellaneous administrative support	3,616	83.4	14.4	11.0
General office clerks	728	81.4	13.4	12.0
Bank tellers	425	87.7	13.3	8.1
Data-entry keyers	746	81.3	15.6	10.9
Statistical clerks	94	83.6	18.2	10.2
Teachers' aides	689	91.0	13.8	14.9
Service occupations	17,915	60.4	18.3	15.2
Private household	831	95.2	15.1	29.3
Child care workers	295	97.4	10.2	21.5
Cleaners and servants	521	94.4	17.6	33.9
Protective service	2,440	18.9	19.8	8.2
Supervisors	181	13.2	10.6	5.0
Police and detectives	96	17.3	8.8	4.8
Firefighting and fire prevention	241	2.8	10.6	6.5
Firefighting	223	1.9	11.1	5.4
Police and detectives	1,108	16.9	18.2	8.1
Police and detectives, public service	618	14.2	15.1	9.1
Sheriffs, bailiffs, and other law enforcement officers	175	14.4	17.3	3.6
Correctional institution officers	315	23.5	24.9	8.7
Guards	910	26.7	26.1	9.4
Guards and police, except public services	763	20.7	29.0	9.6
Service occupations, except private household and protective service	14,644	65.4	18.2	15.5
Food preparation and service occupations	6,091	57.7	11.8	16.5
Supervisors, food preparation and service	469	68.3	12.9	11.6
Bartenders	316	48.4	4.1	12.9
Waiters and waitresses	1,431	77.4	5.1	10.2
Cooks	2,078	44.0	17.4	19.9

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Food counter, fountain and related occupations	360	64.5	10.3	13.7
Kitchen workers, food preparation	293	70.4	13.2	12.6
Waiters' and waitresses' assistants	538	49.5	10.6	19.4
Miscellaneous food preparation	606	51.8	12.8	26.4
Health service occupations	2,521	89.2	31.7	9.9
Dental assistants	213	96.1	6.7	10.4
Health aides, except nursing	338	80.5	25.0	10.0
Nursing aides, orderlies, and attendants	1,970	89.9	35.6	9.8
Cleaning and building service occupations	3,021	45.5	21.9	23.2
Supervisors	163	38.6	21.0	21.5
Maids and housemen	663	82.7	25.4	28.1
Janitors and cleaners	2,118	35.8	21.0	22.1
Pest control occupations	70	2.8	18.1	12.7
Personal service occupations	3,011	80.8	16.1	10.5
Supervisors	134	71.6	15.5	8.5
Barbers	81	20.3	25.1	11.3
Hairdressers and cosmetologists	784	90.8	11.7	10.1
Attendants, amusement and recreation facilities	247	39.7	11.5	6.9
Public transportation attendants	111	83.5	13.1	7.1
Welfare service aides	97	83.8	30.2	10.7
Family child care providers	469	98.0	13.9	15.5
Early childhood teachers' assistants	509	95.3	20.3	10.8
Precision production, craft, and repair	14,593	9.0	8.0	12.8
Mechanics and repairers	4,868	4.8	8.2	10.0
Supervisors	264	10.1	9.2	5.9
Mechanics and repairers, except supervisors	4,604	4.5	8.1	10.2
Vehicle and mobile equipment mechanics and repairers	1,768	1.6	7.2	11.3
Automobile mechanics	837	1.4	8.2	13.8
Bus, truck, and stationary engine mechanics	330	.8	8.3	8.6
Aircraft engine mechanics	147	4.2	7.8	10.4
Small engine repairers	72	1.8	1.4	6.0
Automobile body and related repairers	167	.7	5.9	12.3
Heavy equipment mechanics	160	1.2	4.7	7.0
Industrial machinery repairers	570	2.7	10.1	7.3
Electrical and electronic equipment repairers	966	11.1	9.3	8.7
Electronic repairers, communications and industrial equipment	217	7.9	7.0	11.2
Data processing equipment repairers	315	15.2	9.4	6.3
Telephone line installers and repairers	56	6.9	8.6	7.8
Telephone installers and repairers	249	13.2	13.2	6.9
Miscellaneous electrical and electronic equipment repairers	83	4.9	6.4	13.3
Heating, air conditioning, and refrigeration mechanics	357	1.3	7.0	11.1
Miscellaneous mechanics and repairers	927	5.7	7.8	11.0
Millwrights	72	2.8	7.7	3.4
Construction trades	5,801	2.5	7.0	15.0
Supervisors	817	2.3	4.4	8.5
Construction trades, except supervisors	4,985	2.6	7.4	16.0
Brickmasons and stonemasons	197	1.3	15.7	17.0
Tile setters, hard and soft	95	1.7	2.4	31.0
Carpet installers	129	1.7	5.2	20.8
Carpenters	1,398	1.2	5.1	15.0
Drywall installers	187	3.6	6.0	32.2
Electricians	834	2.3	7.6	8.7
Electrical power installers and repairers	134	2.1	12.8	7.7
Painters, construction and maintenance	603	6.4	7.6	23.1
Plumbers, pipefitters, and steamfitters	540	1.8	6.7	11.7
Concrete and terrazzo finishers	107	3.5	19.4	20.5
Insulation workers	57	4.5	11.5	24.7
Roofers	214	1.9	8.3	19.7
Structural metalworkers	71	.3	8.1	6.4
Extractive occupations	130	.9	6.3	11.6
Precision production occupations	3,793	24.3	9.6	13.2
Supervisors	1,160	19.5	10.8	10.8
Precision metalworking	928	7.6	6.5	8.5
Tool and die makers	142	3.9	3.7	3.7
Machinists	515	5.7	7.0	8.4
Sheet-metal workers	135	6.0	4.2	10.3
Precision woodworking occupations	114	12.0	3.2	16.8
Cabinet makers and bench carpenters	86	6.4	1.9	16.4
Precision textile, apparel, and furnishings machine workers	201	51.4	10.9	21.3

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Dressmakers	65	89.8	8.1	10.8
Upholsterers	69	23.2	7.3	26.1
Precision workers, assorted materials	554	53.9	10.5	14.0
Optical goods workers	81	64.5	6.2	6.1
Dental laboratory and medical appliance technicians	53	34.8	5.3	14.4
Electrical and electronic equipment assemblers	318	63.3	13.8	15.8
Precision food production occupations	457	37.1	13.5	28.4
Butchers and meat cutters	260	24.9	16.8	34.5
Bakers	146	44.7	10.7	20.6
Food batchmakers	50	78.0	4.9	19.8
Precision inspectors, testers, and related workers	131	23.9	8.6	6.5
Inspectors, testers, and graders	123	24.1	7.3	5.9
Plant and system operators	248	4.0	8.2	8.2
Water and sewage treatment plant operators	58	5.6	5.1	5.7
Stationary engineers	113	.8	9.5	8.2
Operators, fabricators, and laborers	18,167	24.1	15.7	16.6
Machine operators, assemblers, and inspectors	7,386	37.2	15.5	18.5
Machine operators and tenders, except precision	4,675	37.0	15.9	19.9
Metalworking and plastic working machine operators	376	17.1	10.7	12.9
Punching and stamping press machine operators	102	24.9	12.6	9.9
Grinding, abrading, buffing, and polishing machine operators	114	16.2	11.3	23.0
Metal and plastic processing machine operators	145	21.7	14.5	14.5
Molding and casting machine operators	96	24.5	16.4	12.7
Woodworking machine operators	143	16.6	9.0	10.5
Sawing machine operators	83	13.5	8.9	11.2
Printing machine operators	355	24.2	9.9	12.2
Printing press operators	277	17.4	11.3	13.4
Textile, apparel, and furnishings machine operators	872	70.8	18.1	28.9
Textile sewing machine operators	461	79.9	15.0	33.2
Pressing machine operators	79	78.2	20.1	39.0
Laundering and dry cleaning machine operators	201	58.4	22.3	25.3
Machine operators, assorted materials	2,757	32.6	17.1	19.8
Packaging and filling machine operators	366	61.7	18.1	30.5
Mixing and blending machine operators	128	12.3	21.2	23.5
Separating, filtering, and clarifying machine operators	52	14.6	14.6	6.5
Painting and paint spraying machine operators	205	13.5	10.9	18.2
Furnace, kiln, and oven operators, except food	70	4.3	11.0	8.6
Slicing and cutting machine operators	153	27.3	13.8	21.7
Photographic process machine operators	102	53.0	11.9	10.9
Fabricators, assemblers, and hand working occupations	1,995	33.7	14.9	14.7
Welders and cutters	571	5.7	9.5	14.9
Assemblers	1,246	44.5	18.5	15.0
Production inspectors, testers, samplers, and weighers	716	48.3	14.5	19.9
Production inspectors, checkers, and examiners	506	48.6	13.8	16.0
Production testers	57	25.7	9.2	13.6
Graders and sorters, except agricultural	149	56.3	18.9	35.1
Transportation and material moving occupations	5,516	9.9	15.9	11.9
Motor vehicle operators	4,202	11.5	16.1	12.4
Supervisors	86	21.8	13.6	8.7
Truck drivers	3,116	4.9	14.1	12.7
Drivers-sales workers	160	10.7	15.4	8.0
Bus drivers	490	51.1	24.5	9.3
Taxicab drivers and chauffeurs	271	13.3	23.9	16.2
Parking lot attendants	68	13.6	20.9	20.8
Transportation occupations, except motor vehicles	163	2.4	15.0	3.9
Rail transportation	106	1.1	18.2	3.0
Water transportation	57	4.9	9.2	5.6
Material moving equipment operators	1,152	5.2	15.5	11.4
Operating engineers	236	1.6	11.1	4.7
Crane and tower operators	74	4.0	11.7	4.5
Excavating and loading machine operators	105	2.1	5.6	7.5
Grader, dozer, and scraper operators	73	4.2	5.2	5.7
Industrial truck and tractor equipment operators	544	7.1	21.8	17.4
Handlers, equipment cleaners, helpers, and laborers	5,265	20.5	15.7	18.8
Helpers, construction and extractive occupations	112	5.5	11.7	18.5
Helpers, construction trades	100	5.1	12.6	18.8
Construction laborers	920	4.1	11.2	25.3

See footnotes at end of table.

11. Employed persons by detailed occupation, sex, race, and Hispanic origin — Continued

(Numbers in thousands)

Occupation	1999			
	Total employed	Percent of total:		
		Women	Black	Hispanic origin
Production helpers	66	26.5	14.8	21.3
Freight, stock, and material handlers	2,060	24.3	17.6	14.7
Garbage collectors	55	9.5	33.1	14.2
Stock handlers and baggers	1,172	31.0	13.8	14.1
Machine feeders and offbearers	91	41.7	29.3	13.8
Garage and service station related occupations	195	3.8	11.4	13.1
Vehicle washers and equipment cleaners	280	13.1	19.9	26.8
Hand packers and packagers	313	61.4	14.5	28.4
Laborers, except construction	1,286	21.6	16.2	17.0
Farming, forestry, and fishing	3,426	19.7	5.0	23.1
Farm operators and managers	1,134	24.7	1.0	2.9
Farmers, except horticultural	900	26.6	.7	1.5
Horticultural specialty farmers	65	10.4	5.3	13.1
Managers, farms, except horticultural	146	20.7	.8	7.4
Other agricultural and related occupations	2,135	18.1	7.1	35.1
Farm occupations, except managerial	845	20.2	5.0	45.8
Supervisors, farm workers	53	26.7	1.1	47.5
Farm workers	757	18.6	5.4	46.0
Related agricultural occupations	1,289	16.7	8.5	28.1
Supervisors	164	9.5	3.9	22.2
Groundskeepers and gardeners, except farm	943	6.8	10.3	29.5
Animal caretakers, except farm	120	76.0	2.0	5.8
Graders and sorters, agricultural products	58	72.8	4.9	68.2
Forestry and logging occupations	107	7.0	5.2	8.0
Timber cutting and logging occupations	66	1.3	8.4	4.4
Fishers, hunters, and trappers	50	6.4	5.6	2.3

NOTE: Generally, data for occupations with fewer than 50,000 employed are not published separately but are included in the totals for the appropriate

categories shown. Beginning in January 1999, data reflect revised population controls used in the household survey.