Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB7.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(7) BY EDUCATIONAL ATTAINMENT(5) BY OCCUPATION(13) [455]—Con.			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EDUCATIONAL ATTAINMENT By OCCUPATION)	3316	3316	4,1,1
	Worked in 1989, usually worked less than 35 hours per week, 27 to 49 weeks:			
	(Repeat EDUCATIONAL ATTAINMENT By OCCUPATION)	3901	3901	5,1,1
	Worked in 1989, usually worked less than 35 hours per week, less than 27 weeks:			
	(Repeat EDUCATIONAL ATTAINMENT By OCCUPATION)	4486	4486	6,1,1
	Did not work in 1989:			
	(Repeat EDUCATIONAL ATTAINMENT By OCCUPATION)	5071	5071	7,1,1
PB8.	CLASS OF WORKER(7) BY OCCUPATION(94) [658]			
	Universe: Black employed persons 16 years and over			
	Private for profit wage and salary workers:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	5656	5656	1,1
	Financial managers (007)	5665	5665	1,2
	Managers, marketing, advertising, and public relations (013)	5674	5674	1,3
	Administrators, education and related fields (014)	5683	5683	1,4
	Other specified managers and administrators (008-012, 015-021)	5692	5692	1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	5701	5701	1,6
	Self-employed (022)	5710	5710	1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	5719	5719	1,8
	Other management related occupations (024-042)	5728	5728	1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	5737	5737	1,10
	Architects and surveyors (043,063)	5746	5746	1,11
	Mathematical and computer scientists (064-068)	5755	5755	1,12
	Natural scientists (069-083)	5764	5764	1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	5773	5773	1,14
	Other health diagnosing occupations (085-094)	5782	5782	1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	5791	5791	1,16
	Other health assessment and treating occupations (096-112)	5800	5800	1,17
	Teachers, postsecondary (113-154)	5809	5809	1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	5818	5818	1,19
	Other teachers, except postsecondary (158-162)	5827	5827	1,20
	Librarians and counselors (163-165)	5836	5836	1,21
	Social scientists and urban planners (166-173)	5845	5845	1,22
	Social, recreation, and religious workers (174-177)	5854	5854	1,23
	Lawyers and judges (178-182)	5863	5863	1,24
	Writers, artists, entertainers, and athletes (183-202)	5872	5872	1,25

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB8.	CLASS OF WORKER(7) BY OCCUPATION(94) [658]—Con.			
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	5881	5881	1,26
	Licensed practical nurses (207)	5890	5890	1,27
	Engineering and science technicians (213-225)	5899	5899	1,28
	Technicians, except health, engineering, and science (226-242)	5908	5908	1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	5917	5917	1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	5926	5926	1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	5935	5935	1,32
	Other finance and business services sales occupations (253, 255-257)	5944	5944	1,33
	Sales representatives, commodities, except retail (258-262)	5953	5953	1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	5962	5962	1,35
	Other sales workers, retail and personal services (263-275, 277-282)	5971	5971	1,36
	Sales related occupations (283-302)	5980	5980	1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	5989	5989	1,38
	Computer equipment operators (308-312)	5998	5998	1,39
	Secretaries, stenographers, and typists (313-315)	6007	6007	1,40
	Information clerks (316-324)	6016	6016	1,41
	Records processing occupations, except financial (325-336)	6025	6025	1,42
	Bookkeepers, accounting, and auditing clerks (337)	6034	6034	1,43
	Other financial records processing occupations (338-344)	6043	6043	1,44
	Mail and message distributing occupations (354-358)	6052	6052	1,45
	Material recording, scheduling and distributing clerks (359-374)	6061	6061	1,46
	Adjusters and investigators (375-378)	6070	6070	1,47
	Other administrative support occupations (345-353, 379-402)	6079	6079	1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	6088	6088	1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	6097	6097	1,50
	Guards (425-432)	6106	6106	1,51
	Other protective service occupations (413-416, 423-424)	6115	6115	1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	6124	6124	1,53
	Cooks (436-437)	6133	6133	1,54
	Other food service occupations (433-434, 438-444)	6142	6142	1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	6151	6151	1,56
	Other health service occupations (445-446)	6160	6160	1,57

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB8.	CLASS OF WORKER(7) BY OCCUPATION(94) [658]—Con.			
	Cleaning and building service occupations, except household (448-455)	6169	6169	1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	6178	6178	1,59
	Child care workers (466-468)	6187	6187	1,60
	Other personal service occupations (456, 459-465, 469-472)	6196	6196	1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	6205	6205	1,62
	Farm occupations, except managers (477-484)	6214	6214	1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	6223	6223	1,64
	Other related agricultural occupations (485, 487-493)	6232	6232	1,65
	Forestry and logging occupations (494-496)	6241	6241	1,66
	Fishers, hunters, and trappers (497-502)	6250	6250	1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	6259	6259	1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	6268	6268	1,69
	Construction trades (553-612):			
	Carpenters (567-572)	6277	6277	1,70
	Electricians (575-576)	6286	6286	1,71
	Painters, construction and maintenance (579-582)	6295	6295	1,72
	Plumbers, pipefitters, and steamfitters (585-587)	6304	6304	1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	6313	6313	1,74
	Extractive occupations (613-627)	6322	6322	1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	6331	6331	1,76
	Precision metal working occupations (634-655)	6340	6340	1,77
	Precision food production occupations (686-688)	6349	6349	1,78
	Other precision production occupations (656-685, 689-702)	6358	6358	1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	6367	6367	1,80
	Printing machine operators (734-737)	6376	6376	1,81
	Textile, apparel, and furnishings machine operators (738-752)	6385	6385	1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	6394	6394	1,83
	Fabricators, assemblers, and hand working occupations (783-795)	6403	6403	1,84
	Production inspectors, testers, samplers, and weighers (796-802)	6412	6412	1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	6421	6421	1,86
	Bus drivers (808)	6430	6430	1,87
	Other motor vehicle operators (803, 806-807, 809-822)	6439	6439	1,88
	Transportation occupations, except motor vehicles (823-842)	6448	6448	1,89
	Material moving equipment operators (843-863)	6457	6457	1,90

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB8.	CLASS OF WORKER(7) BY OCCUPATION(94) [658]—Con.			
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	6466	6466	1,91
	Freight, stock, and material handlers (875-884)	6475	6475	1,92
	Hand packers and packagers (888)	6484	6484	1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	6493	6493	1,94
	Private not-for-profit wage and salary workers: (Repeat OCCUPATION)	6502	6502	2,1
	Local government workers: (Repeat OCCUPATION)	7348	7348	3,1
	Filler	8023	8023	
	End of Segment			
	Local government workers: (Repeat OCCUPATION)–Con.	8329	301	3,76
	State government workers: (Repeat OCCUPATION)	8500	472	4,1
	Federal government workers: (Repeat OCCUPATION)	9346	1318	5,1
	Self-employed workers: (Repeat OCCUPATION)	10192	2164	6,1
	Unpaid family workers: (Repeat OCCUPATION)	11038	3010	7,1
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]			
	Universe: Black employed persons 16 years and over			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	No earnings:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	11884	3856	1,1,1
	Financial managers (007)	11893	3865	1,1,2
	Managers, marketing, advertising, and public relations (013)	11902	3874	1,1,3
	Administrators, education and related fields (014)	11911	3883	1,1,4
	Other specified managers and administrators (008-012, 015-021)	11920	3892	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	11929	3901	1,1,6
	Self-employed (022)	11938	3910	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	11947	3919	1,1,8
	Other management related occupations (024-042)	11956	3928	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	11965	3937	1,1,10
	Architects and surveyors (043, 063)	11974	3946	1,1,11
	Mathematical and computer scientists (064-068)	11983	3955	1,1,12
	Natural scientists (069-083)	11992	3964	1,1,13

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	Health diagnosing occupations (084-094):			
	Physicians (084)	12001	3973	1,1,14
	Other health diagnosing occupations (085-094)	12010	3982	1,1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	12019	3991	1,1,16
	Other health assessment and treating occupations (096-112)	12028	4000	1,1,17
	Teachers, postsecondary (113-154)	12037	4009	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	12046	4018	1,1,19
	Other teachers, except postsecondary (158-162)	12055	4027	1,1,20
	Librarians and counselors (163-165)	12064	4036	1,1,21
	Social scientists and urban planners (166-173)	12073	4045	1,1,22
	Social, recreation, and religious workers (174-177)	12082	4054	1,1,23
	Lawyers and judges (178-182)	12091	4063	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	12100	4072	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	12109	4081	1,1,26
	Licensed practical nurses (207)	12118	4090	1,1,27
	Engineering and science technicians (213-225)	12127	4099	1,1,28
	Technicians, except health, engineering, and science (226-242)	12136	4108	1,1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	12145	4117	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	12154	4126	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	12163	4135	1,1,32
	Other finance and business services sales occupations (253, 255-257)	12172	4144	1,1,33
	Sales representatives, commodities, except retail (258-262)	12181	4153	1,1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	12190	4162	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	12199	4171	1,1,36
	Sales related occupations (283-302)	12208	4180	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	12217	4189	1,1,38
	Computer equipment operators (308-312)	12226	4198	1,1,39
	Secretaries, stenographers, and typists (313-315)	12235	4207	1,1,40
	Information clerks (316-324)	12244	4216	1,1,41
	Records processing occupations, except financial (325-336)	12253	4225	1,1,42

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	Bookkeepers, accounting, and auditing clerks (337)	12262	4234	1,1,43
	Other financial records processing occupations (338-344)	12271	4243	1,1,44
	Mail and message distributing occupations (354-358)	12280	4252	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	12289	4261	1,1,46
	Adjusters and investigators (375-378)	12298	4270	1,1,47
	Other administrative support occupations (345-353, 379-402)	12307	4279	1,1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	12316	4288	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	12325	4297	1,1,50
	Guards (425-432)	12334	4306	1,1,51
	Other protective service occupations (413-416, 423-424)	12343	4315	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	12352	4324	1,1,53
	Cooks (436-437)	12361	4333	1,1,54
	Other food service occupations (433-434, 438-444)	12370	4342	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	12379	4351	1,1,56
	Other health service occupations (445-446)	12388	4360	1,1,57
	Cleaning and building service occupations, except household (448-455)	12397	4369	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	12406	4378	1,1,59
	Child care workers (466-468)	12415	4387	1,1,60
	Other personal service occupations (456, 459-465, 469-472)	12424	4396	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	12433	4405	1,1,62
	Farm occupations, except managers (477-484)	12442	4414	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	12451	4423	1,1,64
	Other related agricultural occupations (485, 487-493)	12460	4432	1,1,65
	Forestry and logging occupations (494-496)	12469	4441	1,1,66
	Fishers, hunters, and trappers (497-502)	12478	4450	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	12487	4459	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	12496	4468	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	12505	4477	1,1,70
	Electricians (575-576)	12514	4486	1,1,71
	Painters, construction and maintenance (579-582)	12523	4495	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	12532	4504	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	12541	4513	1,1,74
	Extractive occupations (613-627)	12550	4522	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	12559	4531	1,1,76
	Precision metal working occupations (634-655)	12568	4540	1,1,77

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	Precision food production occupations (686-688)	12577	4549	1,1,78
	Other precision production occupations (656-685, 689-702)	12586	4558	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	12595	4567	1,1,80
	Printing machine operators (734-737)	12604	4576	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	12613	4585	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	12622	4594	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	12631	4603	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	12640	4612	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	12649	4621	1,1,86
	Bus drivers (808)	12658	4630	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	12667	4639	1,1,88
	Transportation occupations, except motor vehicles (823-842)	12676	4648	1,1,89
	Material moving equipment operators (843-863)	12685	4657	1,1,90
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	12694	4666	1,1,91
	Freight, stock, and material handlers (875-884)	12703	4675	1,1,92
	Hand packers and packagers (888)	12712	4684	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	12721	4693	1,1,94
	$1 to $2,499 or loss:			
	(Repeat OCCUPATION)	12730	4702	1,2,1
	$2,500 to $4,999:			
	(Repeat OCCUPATION)	13576	5548	1,3,1
	$5,000 to $7,499:			
	(Repeat OCCUPATION)	14422	6394	1,4,1
	$7,500 to $9,999:			
	(Repeat OCCUPATION)	15268	7240	1,5,1
	Filler	16051	8023	
	End of Segment			
	$7,500 to $9,999:			
	(Repeat OCCUPATION)–Con.	16357	301	1,5,88
	$10,000 to $12,499:			
	(Repeat OCCUPATION)	16420	364	1,6,1
	$12,500 to $14,999:			
	(Repeat OCCUPATION)	17266	1210	1,7,1
	$15,000 to $17,499:			
	(Repeat OCCUPATION)	18112	2056	1,8,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	$17,500 to $19,999:			
	(Repeat OCCUPATION)	18958	2902	1,9,1
	$20,000 to $22,499:			
	(Repeat OCCUPATION)	19804	3748	1,10,1
	$22,500 to $24,999:			
	(Repeat OCCUPATION)	20650	4594	1,11,1
	$25,000 to $27,499:			
	(Repeat OCCUPATION)	21496	5440	1,12,1
	$27,500 to $29,999:			
	(Repeat OCCUPATION)	22342	6286	1,13,1
	$30,000 to $32,499:			
	(Repeat OCCUPATION)	23188	7132	1,14,1
	$32,500 to $34,999:			
	(Repeat OCCUPATION)	24034	7978	1,15,1
	Filler	24079	8023	
	End of Segment			
	$32,500 to $34,999:			
	(Repeat OCCUPATION)—Con.	24385	301	1,15,6
	$35,000 to $37,499:			
	(Repeat OCCUPATION)	25186	1102	1,16,1
	$37,500 to $39,999:			
	(Repeat OCCUPATION)	26032	1948	1,17,1
	$40,000 to $44,999:			
	(Repeat OCCUPATION)	26878	2794	1,18,1
	$45,000 to $49,999:			
	(Repeat OCCUPATION)	27724	3640	1,19,1
	$50,000 to $59,999:			
	(Repeat OCCUPATION)	28570	4486	1,20,1
	$60,000 to $74,999:			
	(Repeat OCCUPATION)	29416	5332	1,21,1
	$75,000 to $99,999:			
	(Repeat OCCUPATION)	30262	6178	1,22,1
	$100,000 or more:			
	(Repeat OCCUPATION)	31108	7024	1,23,1
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	31954	7870	2,1,1
	Filler	32107	8023	
	End of Segment			
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	32413	301	2,1,18
	Filler	40135	8023	
	End of Segment			
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	40441	301	2,10,30
	Filler	48163	8023	
	End of Segment			

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	48469	301	2,19,42
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	52330	4162	3,1,1
	Filler	56191	8023	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	56497	301	3,5,54
	Filler	64219	8023	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	64525	301	3,14,66
	Filler	72247	8023	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	72553	301	3,23,78
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	72706	454	4,1,1
	Filler	80275	8023	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	80581	301	4,9,90
	Filler	88303	8023	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	88609	301	4,19,8
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	92776	4468	5,1,1
	Filler	96331	8023	
	End of Segment			
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	96637	301	5,5,20
	Filler	104359	8023	
	End of Segment			

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [10810]—Con.			
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	104665	301	5,14,32
	Filler	112387	8023	
	End of Segment			
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	112693	301	5,23,44
PB9A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]			
	Universe: Black employed persons 16 years and over			
	Median earnings in 1989:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	113152	760	1,1,1
	Financial managers (007)	113161	769	1,1,2
	Managers, marketing, advertising, and public relations (013)	113170	778	1,1,3
	Administrators, education and related fields (014)	113179	787	1,1,4
	Other specified managers and administrators (008-012, 015-021)	113188	796	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	113197	805	1,1,6
	Self-employed (022)	113206	814	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	113215	823	1,1,8
	Other management related occupations (024-042)	113224	832	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	113233	841	1,1,10
	Architects and surveyors (043, 063)	113242	850	1,1,11
	Mathematical and computer scientists (064-068)	113251	859	1,1,12
	Natural scientists (069-083)	113260	868	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	113269	877	1,1,14
	Other health diagnosing occupations (085-094)	113278	886	1,1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	113287	895	1,1,16
	Other health assessment and treating occupations (096-112)	113296	904	1,1,17
	Teachers, postsecondary (113-154)	113305	913	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	113314	922	1,1,19
	Other teachers, except postsecondary (158-162)	113323	931	1,1,20
	Librarians and counselors (163-165)	113332	940	1,1,21

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Social scientists and urban planners (166-173)	113341	949	1,1,22
	Social, recreation, and religious workers (174-177)	113350	958	1,1,23
	Lawyers and judges (178-182)	113359	967	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	113368	976	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	113377	985	1,1,26
	Licensed practical nurses (207)	113386	994	1,1,27
	Engineering and science technicians (213-225)	113395	1003	1,1,28
	Technicians, except health, engineering, and science (226-242)	113404	1012	1,1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	113413	1021	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	113422	1030	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	113431	1039	1,1,32
	Other finance and business services sales occupations (253, 255-257)	113440	1048	1,1,33
	Sales representatives, commodities, except retail (258-262)	113449	1057	1,1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	113458	1066	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	113467	1075	1,1,36
	Sales related occupations (283-302)	113476	1084	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	113485	1093	1,1,38
	Computer equipment operators (308-312)	113494	1102	1,1,39
	Secretaries, stenographers, and typists (313-315)	113503	1111	1,1,40
	Information clerks (316-324)	113512	1120	1,1,41
	Records processing occupations, except financial (325-336)	113521	1129	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	113530	1138	1,1,43
	Other financial records processing occupations (338-344)	113539	1147	1,1,44
	Mail and message distributing occupations (354-358)	113548	1156	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	113557	1165	1,1,46
	Adjusters and investigators (375-378)	113566	1174	1,1,47
	Other administrative support occupations (345-353, 379-402)	113575	1183	1,1,48

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Service occupations (403-472):			
	Private household occupations (403-412)	113584	1192	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	113593	1201	1,1,50
	Guards (425-432)	113602	1210	1,1,51
	Other protective service occupations (413-416, 423-424)	113611	1219	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	113620	1228	1,1,53
	Cooks (436-437)	113629	1237	1,1,54
	Other food service occupations (433-434, 438-444)	113638	1246	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	113647	1255	1,1,56
	Other health service occupations (445-446)	113656	1264	1,1,57
	Cleaning and building service occupations, except household (448-455)	113665	1273	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	113674	1282	1,1,59
	Child care workers (466-468)	113683	1291	1,1,60
	Other personal service occupations (456, 459-465, 469-472)	113692	1300	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	113701	1309	1,1,62
	Farm occupations, except managers (477-484)	113710	1318	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	113719	1327	1,1,64
	Other related agricultural occupations (485, 487-493)	113728	1336	1,1,65
	Forestry and logging occupations (494-496)	113737	1345	1,1,66
	Fishers, hunters, and trappers (497-502)	113746	1354	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	113755	1363	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	113764	1372	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	113773	1381	1,1,70
	Electricians (575-576)	113782	1390	1,1,71
	Painters, construction and maintenance (579-582)	113791	1399	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	113800	1408	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	113809	1417	1,1,74
	Extractive occupations (613-627)	113818	1426	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	113827	1435	1,1,76
	Precision metal working occupations (634-655)	113836	1444	1,1,77
	Precision food production occupations (686-688)	113845	1453	1,1,78
	Other precision production occupations (656-685, 689-702)	113854	1462	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	113863	1471	1,1,80

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB9A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Printing machine operators (734-737)	113872	1480	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	113881	1489	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	113890	1498	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	113899	1507	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	113908	1516	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	113917	1525	1,1,86
	Bus drivers (808)	113926	1534	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	113935	1543	1,1,88
	Transportation occupations, except motor vehicles (823-842)	113944	1552	1,1,89
	Material moving equipment operators (843-863)	113953	1561	1,1,90
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	113962	1570	1,1,91
	Freight, stock, and material handlers (875-884)	113971	1579	1,1,92
	Hand packers and packagers (888)	113980	1588	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	113989	1597	1,1,94
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	113998	1606	1,2,1
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat OCCUPATION)	114844	2452	1,3,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	115690	3298	1,4,1
	Did not work in 1989:			
	(Repeat OCCUPATION)	116536	4144	1,5,1
PB10.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]			
	Universe: Black employed persons 16 years and over			
	Total:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	117382	4990	1,1,1
	Financial managers (007)	117397	5005	1,1,2
	Managers, marketing, advertising, and public relations (013)	117412	5020	1,1,3
	Administrators, education and related fields (014)	117427	5035	1,1,4
	Other specified managers and administrators (008-012, 015-021)	117442	5050	1,1,5

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	117457	5065	1,1,6
	Self-employed (022)	117472	5080	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	117487	5095	1,1,8
	Other management related occupations (024-042)	117502	5110	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	117517	5125	1,1,10
	Architects and surveyors (043, 063)	117532	5140	1,1,11
	Mathematical and computer scientists (064-068)	117547	5155	1,1,12
	Natural scientists (069-083)	117562	5170	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	117577	5185	1,1,14
	Other health diagnosing occupations (085-094)	117592	5200	1,1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	117607	5215	1,1,16
	Other health assessment and treating occupations (096-112)	117622	5230	1,1,17
	Teachers, postsecondary (113-154)	117637	5245	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	117652	5260	1,1,19
	Other teachers, except postsecondary (158-162)	117667	5275	1,1,20
	Librarians and counselors (163-165)	117682	5290	1,1,21
	Social scientists and urban planners (166-173)	117697	5305	1,1,22
	Social, recreation, and religious workers (174-177)	117712	5320	1,1,23
	Lawyers and judges (178-182)	117727	5335	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	117742	5350	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	117757	5365	1,1,26
	Licensed practical nurses (207)	117772	5380	1,1,27
	Engineering and science technicians (213-225)	117787	5395	1,1,28
	Technicians, except health, engineering, and science (226-242)	117802	5410	1,1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	117817	5425	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	117832	5440	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	117847	5455	1,1,32
	Other finance and business services sales occupations (253, 255-257)	117862	5470	1,1,33
	Sales representatives, commodities, except retail (258-262)	117877	5485	1,1,34

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	117892	5500	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	117907	5515	1,1,36
	Sales related occupations (283-302)	117922	5530	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	117937	5545	1,1,38
	Computer equipment operators (308-312)	117952	5560	1,1,39
	Secretaries, stenographers, and typists (313-315)	117967	5575	1,1,40
	Information clerks (316-324)	117982	5590	1,1,41
	Records processing occupations, except financial (325-336)	117997	5605	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	118012	5620	1,1,43
	Other financial records processing occupations (338-344)	118027	5635	1,1,44
	Mail and message distributing occupations (354-358)	118042	5650	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	118057	5665	1,1,46
	Adjusters and investigators (375-378)	118072	5680	1,1,47
	Other administrative support occupations (345-353, 379-402)	118087	5695	1,1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	118102	5710	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	118117	5725	1,1,50
	Guards (425-432)	118132	5740	1,1,51
	Other protective service occupations (413-416, 423-424)	118147	5755	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	118162	5770	1,1,53
	Cooks (436-437)	118177	5785	1,1,54
	Other food service occupations (433-434, 438-444)	118192	5800	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	118207	5815	1,1,56
	Other health service occupations (445-446)	118222	5830	1,1,57
	Cleaning and building service occupations, except household (448-455)	118237	5845	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	118252	5860	1,1,59
	Child care workers (466-468)	118267	5875	1,1,60
	Other personal service occupations (456, 459-465, 469-472)	118282	5890	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	118297	5905	1,1,62
	Farm occupations, except managers (477-484)	118312	5920	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	118327	5935	1,1,64
	Other related agricultural occupations (485, 487-493)	118342	5950	1,1,65
	Forestry and logging occupations (494-496)	118357	5965	1,1,66
	Fishers, hunters, and trappers (497-502)	118372	5980	1,1,67

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	118387	5995	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	118402	6010	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	118417	6025	1,1,70
	Electricians (575-576)	118432	6040	1,1,71
	Painters, construction and maintenance (579-582)	118447	6055	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	118462	6070	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	118477	6085	1,1,74
	Extractive occupations (613-627)	118492	6100	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	118507	6115	1,1,76
	Precision metal working occupations (634-655)	118522	6130	1,1,77
	Precision food production occupations (686-688)	118537	6145	1,1,78
	Other precision production occupations (656-685, 689-702)	118552	6160	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	118567	6175	1,1,80
	Printing machine operators (734-737)	118582	6190	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	118597	6205	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	118612	6220	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	118627	6235	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	118642	6250	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	118657	6265	1,1,86
	Bus drivers (808)	118672	6280	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	118687	6295	1,1,88
	Transportation occupations, except motor vehicles (823-842)	118702	6310	1,1,89
	Material moving equipment operators (843-863)	118717	6325	1,1,90
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	118732	6340	1,1,91
	Freight, stock, and material handlers (875-884)	118747	6355	1,1,92
	Hand packers and packagers (888)	118762	6370	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	118777	6385	1,1,94
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	118792	6400	1,2,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat OCCUPATION)	120202	7810	1,3,1
	Filler	120412	8020	
	End of Segment			
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat OCCUPATION)—Con.	120721	301	1,3,15
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	121921	1501	1,4,1
	Did not work in 1989:			
	(Repeat OCCUPATION)	123331	2911	1,5,1
PB10A.	MEAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]			
	Universe: Black employed persons 16 years and over			
	Mean earnings in 1989:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	124741	4321	1,1,1
	Financial managers (007)	124750	4330	1,1,2
	Managers, marketing, advertising, and public relations (013)	124759	4339	1,1,3
	Administrators, education and related fields (014)	124768	4348	1,1,4
	Other specified managers and administrators (008-012, 015-021)	124777	4357	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	124786	4366	1,1,6
	Self-employed (022)	124795	4375	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	124804	4384	1,1,8
	Other management related occupations (024-042)	124813	4393	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	124822	4402	1,1,10
	Architects and surveyors (043,063)	124831	4411	1,1,11
	Mathematical and computer scientists (064-068)	124840	4420	1,1,12
	Natural scientists (069-083)	124849	4429	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	124858	4438	1,1,14
	Other health diagnosing occupations (085-094)			
	Health assessment and treating occupations (095-112):	124867	4447	1,1,15
	Registered nurses (095)	124876	4456	1,1,16
	Other health assessment and treating occupations (096-112)	124885	4465	1,1,17
	Teachers, postsecondary (113-154)	124894	4474	1,1,18

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10A.	MEAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	124903	4483	1,1,19
	Other teachers, except postsecondary (158-162)	124912	4492	1,1,20
	Librarians and counselors (163-165)	124921	4501	1,1,21
	Social scientists and urban planners (166-173)	124930	4510	1,1,22
	Social, recreation, and religious workers (174-177)	124939	4519	1,1,23
	Lawyers and judges (178-182)	124948	4528	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	124957	4537	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	124966	4546	1,1,26
	Licensed practical nurses (207)	124975	4555	1,1,27
	Engineering and science technicians (213-225)	124984	4564	1,1,28
	Technicians, except health, engineering, and science (226-242)	124993	4573	1,1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	125002	4582	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	125011	4591	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	125020	4600	1,1,32
	Other finance and business services sales occupations (253, 255-257)	125029	4609	1,1,33
	Sales representatives, commodities, except retail (258-262)	125038	4618	1,1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	125047	4627	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	125056	4636	1,1,36
	Sales related occupations (283-302)	125065	4645	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	125074	4654	1,1,38
	Computer equipment operators (308-312)	125083	4663	1,1,39
	Secretaries, stenographers, and typists (313-315)	125092	4672	1,1,40
	Information clerks (316-324)	125101	4681	1,1,41
	Records processing occupations, except financial (325-336)	125110	4690	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	125119	4699	1,1,43
	Other financial records processing occupations (338-344)	125128	4708	1,1,44
	Mail and message distributing occupations (354-358)	125137	4717	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	125146	4726	1,1,46
	Adjusters and investigators (375-378)	125155	4735	1,1,47
	Other administrative support occupations (345-353, 379-402)	125164	4744	1,1,48

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10A.	MEAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Service occupations (403-472):			
	Private household occupations (403-412)	125173	4753	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	125182	4762	1,1,50
	Guards (425-432)	125191	4771	1,1,51
	Other protective service occupations (413-416, 423-424)	125200	4780	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	125209	4789	1,1,53
	Cooks (436-437)	125218	4798	1,1,54
	Other food service occupations (433-434, 438-444)	125227	4807	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	125236	4816	1,1,56
	Other health service occupations (445-446)	125245	4825	1,1,57
	Cleaning and building service occupations, except household (448-455)	125254	4834	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	125263	4843	1,1,59
	Child care workers (466-468)	125272	4852	1,1,60
	Other personal service occupations (456, 459-465, 469-472)	125281	4861	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	125290	4870	1,1,62
	Farm occupations, except managers (477-484)	125299	4879	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	125308	4888	1,1,64
	Other related agricultural occupations (485, 487-493)	125317	4897	1,1,65
	Forestry and logging occupations (494-496)	125326	4906	1,1,66
	Fishers, hunters, and trappers (497-502)	125335	4915	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	125344	4924	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	125353	4933	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	125362	4942	1,1,70
	Electricians (575-576)	125371	4951	1,1,71
	Painters, construction and maintenance (579-582)	125380	4960	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	125389	4969	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	125398	4978	1,1,74
	Extractive occupations (613-627)	125407	4987	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	125416	4996	1,1,76
	Precision metal working occupations (634-655)	125425	5005	1,1,77
	Precision food production occupations (686-688)	125434	5014	1,1,78
	Other precision production occupations (656-685, 689-702)	125443	5023	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	125452	5032	1,1,80

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB10A.	MEAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY OCCUPATION(94) [470]—Con.			
	Printing machine operators (734-737)	125461	5041	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	125470	5050	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	125479	5059	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	125488	5068	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	125497	5077	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	125506	5086	1,1,86
	Bus drivers (808)	125515	5095	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	125524	5104	1,1,88
	Transportation occupations, except motor vehicles (823-842)	125533	5113	1,1,89
	Material moving equipment operators (843-863)	125542	5122	1,1,90
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	125551	5131	1,1,91
	Freight, stock, and material handlers (875-884)	125560	5140	1,1,92
	Hand packers and packagers (888)	125569	5149	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	125578	5158	1,1,94
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	125587	5167	1,2,1
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat OCCUPATION)	126433	6013	1,3,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat OCCUPATION)	127279	6859	1,4,1
	Did not work in 1989:			
	(Repeat OCCUPATION)	128125	7705	1,5,1
	End of Segment			
	Did not work in 1989:			
	(Repeat OCCUPATION)–Con.	128749	301	413
PB11.	INDUSTRY(17) BY OCCUPATION(13) [221]			
	Universe: Black employed persons 16 years and over			
	Agriculture, forestry, and fisheries (000-039):			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042)	129271	823	1,1
	Professional specialty occupations (043-202)	129280	832	1,2
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242)	129289	841	1,3
	Sales occupations (243-302)	129298	850	1,4
	Administrative support occupations, including clerical (303-402)	129307	859	1,5

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB11.	INDUSTRY(17) BY OCCUPATION(13) [221]—Con.			
	Service occupations (403-472):			
	Private household occupations (403-412)	129316	868	1,6
	Protective service occupations (413-432)	129325	877	1,7
	Service occupations, except protective and household (433-472)	129334	886	1,8
	Farming, forestry, and fishing occupations (473-502)	129343	895	1,9
	Precision production, craft, and repair occupations (503-702)	129352	904	1,10
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802)	129361	913	1,11
	Transportation and material moving occupations (803-863)	129370	922	1,12
	Handlers, equipment cleaners, helpers, and laborers (864-902)	129379	931	1,13
	Mining (040-059):			
	(Repeat OCCUPATION)	129388	940	2,1
	Construction (060-099):			
	(Repeat OCCUPATION)	129505	1057	3,1
	Manufacturing, nondurable goods (100-229):			
	(Repeat OCCUPATION)	129622	1174	4,1
	Manufacturing, durable goods (230-399):			
	(Repeat OCCUPATION)	129739	1291	5,1
	Transportation (400-439):			
	(Repeat OCCUPATION)	129856	1408	6,1
	Communications and other public utilities (440-499):			
	(Repeat OCCUPATION)	129973	1525	7,1
	Wholesale trade (500-579):			
	(Repeat OCCUPATION)	130090	1642	8,1
	Retail trade (580-699):			
	(Repeat OCCUPATION)	130207	1759	9,1
	Finance, insurance, and real estate (700-720):			
	(Repeat OCCUPATION)	130324	1876	10,1
	Business and repair services (721-760):			
	(Repeat OCCUPATION)	130441	1993	11,1
	Personal services (761-799):			
	(Repeat OCCUPATION)	130558	2110	12,1
	Entertainment and recreation services (800-811):			
	(Repeat OCCUPATION)	130675	2227	13,1
	Professional and related services, health services (812-840):			
	(Repeat OCCUPATION)	130792	2344	14,1
	Professional and related services, educational services (842-860):			
	(Repeat OCCUPATION)	130909	2461	15,1
	Other professional and related services (841, 861-899):			
	(Repeat OCCUPATION)	131026	2578	16,1
	Public administration (900-939):			
	(Repeat OCCUPATION)	131143	2695	17,1
PB12.	EDUCATIONAL ATTAINMENT(5) BY INCOME IN 1989(25) [125]			
	Universe: Black persons 15 years and over			
	Not high school graduate:			
	Without income	131260	2812	1,1
	With income:			
	$1 to $999 or loss	131269	2821	1,2
	$1,000 to $2,499	131278	2830	1,3
	$2,500 to $4,999	131287	2839	1,4
	$5,000 to $7,499	131296	2848	1,5
	$7,500 to $9,999	131305	2857	1,6
	$10,000 to $12,499	131314	2866	1,7
	$12,500 to $14,999	131323	2875	1,8
	$15,000 to $17,499	131332	2884	1,9
	$17,500 to $19,999	131341	2893	1,10
	$20,000 to $22,499	131350	2902	1,11

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB12.	EDUCATIONAL ATTAINMENT(5) BY INCOME IN 1989(25) [125]—Con.			
	$22,500 to $24,999	131359	2911	1,12
	$25,000 to $27,499	131368	2920	1,13
	$27,500 to $29,999	131377	2929	1,14
	$30,000 to $32,499	131386	2938	1,15
	$32,500 to $34,999	131395	2947	1,16
	$35,000 to $37,499	131404	2956	1,17
	$37,500 to $39,999	131413	2965	1,18
	$40,000 to $44,999	131422	2974	1,19
	$45,000 to $49,999	131431	2983	1,20
	$50,000 to $54,999	131440	2992	1,21
	$55,000 to $59,999	131449	3001	1,22
	$60,000 to $74,999	131458	3010	1,23
	$75,000 to $99,999	131467	3019	1,24
	$100,000 or more	131476	3028	1,25
	High school graduate (includes equivalency):			
	(Repeat INCOME IN 1989)	131485	3037	2,1
	Some college or associate degree:			
	(Repeat INCOME IN 1989)	131710	3262	3,1
	Bachelor's degree:			
	(Repeat INCOME IN 1989)	131935	3487	4,1
	Graduate or professional degree:			
	(Repeat INCOME IN 1989)	132160	3712	5,1
PB12A.	MEDIAN INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT(5) [5]			
	Universe: Black persons 15 years and over			
	Median income in 1989:			
	Not high school graduate	132385	3937	1,1
	High school graduate (includes equivalency)	132394	3946	1,2
	Some college or associate degree	132403	3955	1,3
	Bachelor's degree	132412	3964	1,4
	Graduate or professional degree	132421	3973	1,5
PB13.	AGGREGATE INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT(5) [5]			
	Universe: Black persons 15 years and over			
	Total:			
	Not high school graduate	132430	3982	1,1
	High school graduate (includes equivalency)	132445	3997	1,2
	Some college or associate degree	132460	4012	1,3
	Bachelor's degree	132475	4027	1,4
	Graduate or professional degree	132490	4042	1,5
PB13A.	MEAN INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT(5) [5]			
	Universe: Black persons 15 years and over			
	Mean income in 1989:			
	Not high school graduate	132505	4057	1,1
	High school graduate (includes equivalency)	132514	4066	1,2
	Some college or associate degree	132523	4075	1,3
	Bachelor's degree	132532	4084	1,4
	Graduate or professional degree	132541	4093	1,5

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]			
	Universe: Black employed persons 16 years and over			
	Less than 9th grade:			
	No earnings:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	132550	4102	1,1,1
	Financial managers (007)	132559	4111	1,1,2
	Managers, marketing, advertising, and public relations (013)	132568	4120	1,1,3
	Administrators, education and related fields (014)	132577	4129	1,1,4
	Other specified managers and administrators (008-012, 015-021)	132586	4138	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	132595	4147	1,1,6
	Self-employed (022)	132604	4156	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	132613	4165	1,1,8
	Other management related occupations (024-042)	132622	4174	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	132631	4183	1,1,10
	Architects and surveyors (043,063)	132640	4192	1,1,11
	Mathematical and computer scientists (064-068)	132649	4201	1,1,12
	Natural scientists (069-083)	132658	4210	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	132667	4219	1,1,14
	Other health diagnosing occupations (085-094)	132676	4228	1,1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	132685	4237	1,1,16
	Other health assessment and treating occupations (096-112)	132694	4246	1,1,17
	Teachers, postsecondary (113-154)	132703	4255	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	132712	4264	1,1,19
	Other teachers, except postsecondary (158-162)	132721	4273	1,1,20
	Librarians and counselors (163-165)	132730	4282	1,1,21
	Social scientists and urban planners (166-173)	132739	4291	1,1,22
	Social, recreation, and religious workers (174-177)	132748	4300	1,1,23
	Lawyers and judges (178-182)	132757	4309	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	132766	4318	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	132775	4327	1,1,26
	Licensed practical nurses (207)	132784	4336	1,1,27
	Engineering and science technicians (213-225)	132793	4345	1,1,28
	Technicians, except health, engineering, and science (226-242)	132802	4354	1,1,29

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]—Con.			
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	132811	4363	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	132820	4372	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	132829	4381	1,1,32
	Other finance and business services sales occupations (253, 255-257)	132847	4399	1,1,34
	Sales representatives, commodities, except retail (258-262)	132838	4390	1,1,33
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	132856	4408	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	132865	4417	1,1,36
	Sales related occupations (283-302)	132874	4426	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	132883	4435	1,1,38
	Computer equipment operators (308-312)	132892	4444	1,1,39
	Secretaries, stenographers, and typists (313-315)	132901	4453	1,1,40
	Information clerks (316-324)	132910	4462	1,1,41
	Records processing occupations, except financial (325-336)	132919	4471	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	132928	4480	1,1,43
	Other financial records processing occupations (338-344)	132937	4489	1,1,44
	Mail and message distributing occupations (354-358)	132946	4498	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	132955	4507	1,1,46
	Adjusters and investigators (375-378)	132964	4516	1,1,47
	Other administrative support occupations (345-353, 379-402)	132973	4525	1,1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	132982	4534	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	132991	4543	1,1,50
	Guards (425-432)	133000	4552	1,1,51
	Other protective service occupations (413-416, 423-424)	133009	4561	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	133018	4570	1,1,53
	Cooks (436-437)	133027	4579	1,1,54
	Other food service occupations (433-434, 438-444)	133036	4588	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	133045	4597	1,1,56
	Other health service occupations (445-446)	133054	4606	1,1,57
	Cleaning and building service occupations, except household (448-455)	133063	4615	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	133072	4624	1,1,59
	Child care workers (466-468)	133081	4633	1,1,60

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]—Con.			
	Other personal service occupations (456, 459-465, 469-472)	133090	4642	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	133099	4651	1,1,62
	Farm occupations, except managers (477-484)	133108	4660	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	133117	4669	1,1,64
	Other related agricultural occupations (485, 487-493)	133126	4678	1,1,65
	Forestry and logging occupations (494-496)	133135	4687	1,1,66
	Fishers, hunters, and trappers (497-502)	133144	4696	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	133153	4705	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	133162	4714	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	133171	4723	1,1,70
	Electricians (575-576)	133180	4732	1,1,71
	Painters, construction and maintenance (579-582)	133189	4741	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	133198	4750	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	133207	4759	1,1,74
	Extractive occupations (613-627)	133216	4768	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	133225	4777	1,1,76
	Precision metal working occupations (634-655)	133234	4786	1,1,77
	Precision food production occupations (686-688)	133243	4795	1,1,78
	Other precision production occupations (656-685, 689-702)	133252	4804	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	133261	4813	1,1,80
	Printing machine operators (734-737)	133270	4822	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	133279	4831	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	133288	4840	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	133297	4849	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	133306	4858	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	133315	4867	1,1,86
	Bus drivers (808)	133324	4876	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	133333	4885	1,1,88
	Transportation occupations, except motor vehicles (823-842)	133342	4894	1,1,89
	Material moving equipment operators (843-863)	133351	4903	1,1,90

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]—Con.			
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	133360	4912	1,1,91
	Freight, stock, and material handlers (875-884)	133369	4921	1,1,92
	Hand packers and packagers (888)	133378	4930	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	133387	4939	1,1,94
	$1 to $2,499 or loss:			
	(Repeat OCCUPATION)	133396	4948	1,2,1
	$2,500 to $4,999:			
	(Repeat OCCUPATION)	134242	5794	1,3,1
	$5,000 to $7,499:			
	(Repeat OCCUPATION)	135088	6640	1,4,1
	$7,500 to $9,999:			
	(Repeat OCCUPATION)	135934	7486	1,5,1
	Filler	136474	8026	
	End of Segment			
	$7,500 to $9,999:			
	(Repeat OCCUPATION)–Con.	136777	301	1,5,61
	$10,000 to $12,499:			
	(Repeat OCCUPATION)	137083	607	1,6,1
	$12,500 to $14,999:			
	(Repeat OCCUPATION)	137929	1453	1,7,1
	$15,000 to $17,499:			
	(Repeat OCCUPATION)	138775	2299	1,8,1
	$17,500 to $19,999:			
	(Repeat OCCUPATION)	139621	3145	1,9,1
	$20,000 to $22,499:			
	(Repeat OCCUPATION)	140467	3991	1,10,1
	$22,500 to $24,999:			
	(Repeat OCCUPATION)	141313	4837	1,11,1
	$25,000 to $27,499:			
	(Repeat OCCUPATION)	142159	5683	1,12,1
	$27,500 to $29,999:			
	(Repeat OCCUPATION)	143005	6529	1,13,1
	$30,000 to $32,499:			
	(Repeat OCCUPATION)	143851	7375	1,14,1
	Filler	144499	8023	
	End of Segment			
	$30,000 to $32,499:			
	(Repeat OCCUPATION)–Con.	144805	301	1,14,73
	$32,500 to $34,999:			
	(Repeat OCCUPATION)	145003	499	1,15,1
	$35,000 to $37,499:			
	(Repeat OCCUPATION)	145849	1345	1,16,1
	$37,500 to $39,999:			
	(Repeat OCCUPATION)	146695	2191	1,17,1
	$40,000 to $44,999:			
	(Repeat OCCUPATION)	147541	3037	1,18,1
	$45,000 to $49,999:			
	(Repeat OCCUPATION)	148387	3883	1,19,1
	$50,000 to $59,999:			
	(Repeat OCCUPATION)	149233	4729	1,20,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]—Con.			
	$60,000 to $74,999:			
	(Repeat OCCUPATION)	150079	5575	1,21,1
	$75,000 to $99,999:			
	(Repeat OCCUPATION)	150925	6421	1,22,1
	$100,000 or more:			
	(Repeat OCCUPATION)	151771	7267	1,23,1
	Filler	152527	8023	
	End of Segment			
	$100,000 or more:			
	(Repeat OCCUPATION)—Con.	152833	301	1,23,85
	9th to 12th grade, no diploma:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	152923	391	2,1,1
	Filler	160555	8023	
	End of Segment			
	9th to 12th grade, no diploma:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	160861	301	2,10,3
	Filler	168583	8023	
	End of Segment			
	9th to 12th grade, no diploma:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	168889	301	2,19,15
	High school graduate (includes equivalency):			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	172993	4405	3,1,1
	Filler	176611	8023	
	End of Segment			
	High school graduate (includes equivalency):			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	176917	301	3,5,27
	Filler	184639	8023	
	End of Segment			
	High school graduate (includes equivalency):			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	184945	301	3,14,39
	Filler	192667	8023	
	End of Segment			
	High school graduate (includes equivalency):			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	192973	301	3,23,51
	Some college, no degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	193369	697	4,1,1
	Filler	200695	8023	
	End of Segment			
	Some college, no degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	201001	301	4,9,63
	Filler	208723	8023	
	End of Segment			

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14.	EDUCATIONAL ATTAINMENT(7) BY EARNINGS IN 1989(23) BY OCCUPATION(94) [15134]—Con.			
	Some college, no degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	209029	301	4,18,75
	Associate degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	213439	4711	5,1,1
	Filler	216751	8023	
	End of Segment			
	Associate degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	217057	301	5,4,87
	Filler	224779	8023	
	End of Segment			
	Associate degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	225085	301	5,14,5
	Filler	232807	8023	
	End of Segment			
	Associate degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	233113	301	5,23,17
	Bachelor's degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	233815	1003	6,1,1
	Filler	240835	8023	
	End of Segment			
	Bachelor's degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	241141	301	6,9,29
	Filler	248863	8023	
	End of Segment			
	Bachelor's degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	249169	301	6,18,41
	Graduate or professional degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)	253885	5017	7,1,1
	Filler	256891	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	257197	301	7,4,53
	Filler	264919	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	265225	301	7,13,65
	Filler	272947	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat EARNINGS IN 1989 By OCCUPATION)—Con.	273253	301	7,22,77

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14A.	MEDIAN EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]			
	Universe: Black employed persons 16 years and over			
	Median earnings in 1989:			
	Less than 9th grade:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	274261	1309	1,1,1
	Financial managers (007)	274270	1318	1,1,2
	Managers, marketing, advertising, and public relations (013)	274279	1327	1,1,3
	Administrators, education and related fields (014)	274288	1336	1,1,4
	Other specified managers and administrators (008-012, 015-021)	274297	1345	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	274306	1354	1,1,6
	Self-employed (022)	274315	1363	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	274324	1372	1,1,8
	Other management related occupations (024-042)	274333	1381	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	274342	1390	1,1,10
	Architects and surveyors (043, 063)	274351	1399	1,1,11
	Mathematical and computer scientists (064-068)	274360	1408	1,1,12
	Natural scientists (069-083)	274369	1417	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	274378	1426	1,1,14
	Other health diagnosing occupations (085-094)	274387	1435	1,1,15
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	274396	1444	1,1,16
	Other health assessment and treating occupations (096-112)	274405	1453	1,1,17
	Teachers, postsecondary (113-154)	274414	1462	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	274423	1471	1,1,19
	Other teachers, except postsecondary (158-162)	274432	1480	1,1,20
	Librarians and counselors (163-165)	274441	1489	1,1,21
	Social scientists and urban planners (166-173)	274450	1498	1,1,22
	Social, recreation, and religious workers (174-177)	274459	1507	1,1,23
	Lawyers and judges (178-182)	274468	1516	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	274477	1525	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	274486	1534	1,1,26
	Licensed practical nurses (207)	274495	1543	1,1,27
	Engineering and science technicians (213-225)	274504	1552	1,1,28
	Technicians, except health, engineering, and science (226-242)	274513	1561	1,1,29

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14A.	MEDIAN EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	274522	1570	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	274531	1579	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	274540	1588	1,1,32
	Other finance and business services sales occupations (253, 255-257)	274549	1597	1,1,33
	Sales representatives, commodities, except retail (258-262)	274558	1606	1,1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	274567	1615	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	274576	1624	1,1,36
	Sales related occupations (283-302)	274585	1633	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	274594	1642	1,1,38
	Computer equipment operators (308-312)	274603	1651	1,1,39
	Secretaries, stenographers, and typists (313-315)	274612	1660	1,1,40
	Information clerks (316-324)	274621	1669	1,1,41
	Records processing occupations, except financial (325-336)	274630	1678	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	274639	1687	1,1,43
	Other financial records processing occupations (338-344)	274648	1696	1,1,44
	Mail and message distributing occupations (354-358)	274657	1705	1,1,45
	Material recording, scheduling and distributing clerks (359-374)	274666	1714	1,1,46
	Adjusters and investigators (375-378)	274675	1723	1,1,47
	Other administrative support occupations (345-353, 379-402)	274684	1732	1,1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	274693	1741	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	274702	1750	1,1,50
	Guards (425-432)	274711	1759	1,1,51
	Other protective service occupations (413-416, 423-424)	274720	1768	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	274729	1777	1,1,53
	Cooks (436-437)	274738	1786	1,1,54
	Other food service occupations (433-434, 438-444)	274747	1795	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	274756	1804	1,1,56
	Other health service occupations (445-446)	274765	1813	1,1,57
	Cleaning and building service occupations, except household (448-455)	274774	1822	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	274783	1831	1,1,59
	Child care workers (466-468)	274792	1840	1,1,60

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14A.	MEDIAN EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Other personal service occupations (456, 459-465, 469-472)	274801	1849	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	274810	1858	1,1,62
	Farm occupations, except managers (477-484)	274819	1867	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	274828	1876	1,1,64
	Other related agricultural occupations (485, 487-493)	274837	1885	1,1,65
	Forestry and logging occupations (494-496)	274846	1894	1,1,66
	Fishers, hunters, and trappers (497-502)	274855	1903	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	274864	1912	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	274873	1921	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	274882	1930	1,1,70
	Electricians (575-576)	274891	1939	1,1,71
	Painters, construction and maintenance (579-582)	274900	1948	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	274909	1957	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	274918	1966	1,1,74
	Extractive occupations (613-627)	274927	1975	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	274936	1984	1,1,76
	Precision metal working occupations (634-655)	274945	1993	1,1,77
	Precision food production occupations (686-688)	274954	2002	1,1,78
	Other precision production occupations (656-685, 689-702)	274963	2011	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	274972	2020	1,1,80
	Printing machine operators (734-737)	274981	2029	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	274990	2038	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	274999	2047	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	275008	2056	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	275017	2065	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	275026	2074	1,1,86
	Bus drivers (808)	275035	2083	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	275044	2092	1,1,88
	Transportation occupations, except motor vehicles (823-842)	275053	2101	1,1,89
	Material moving equipment operators (843-863)	275062	2110	1,1,90

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB14A.	MEDIAN EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	275071	2119	1,1,91
	Freight, stock, and material handlers (875-884)	275080	2128	1,1,92
	Hand packers and packagers (888)	275089	2137	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	275098	2146	1,1,94
	9th to 12th grade, no diploma: (Repeat OCCUPATION)	275107	2155	1,2,1
	High school graduate (includes equivalency): (Repeat OCCUPATION)	275953	3001	1,3,1
	Some college, no degree: (Repeat OCCUPATION)	276799	3847	1,4,1
	Associate degree: (Repeat OCCUPATION)	277645	4693	1,5,1
	Bachelor's degree: (Repeat OCCUPATION)	278491	5539	1,6,1
	Graduate or professional degree: (Repeat OCCUPATION)	279337	6385	1,7,1
PB15.	AGGREGATE EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]			
	Universe: Black employed persons 16 years and over			
	Total:			
	Less than 9th grade:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042):			
	Officials and administrators, public administration (000-006)	280183	7231	1,1,1
	Financial managers (007)	280198	7246	1,1,2
	Managers, marketing, advertising, and public relations (013)	280213	7261	1,1,3
	Administrators, education and related fields (014)	280228	7276	1,1,4
	Other specified managers and administrators (008-012, 015-021)	280243	7291	1,1,5
	Managers and administrators, n.e.c. (022):			
	Salaried (022)	280258	7306	1,1,6
	Self-employed (022)	280273	7321	1,1,7
	Management related occupations (023-042):			
	Accountants and auditors (023)	280288	7336	1,1,8
	Other management related occupations (024-042)	280303	7351	1,1,9
	Professional specialty occupations (043-202):			
	Engineers, architects, and surveyors (043-063):			
	Engineers (044-062)	280318	7366	1,1,10
	Architects and surveyors (043, 063)	280333	7381	1,1,11
	Mathematical and computer scientists (064-068)	280348	7396	1,1,12
	Natural scientists (069-083)	280363	7411	1,1,13
	Health diagnosing occupations (084-094):			
	Physicians (084)	280378	7426	1,1,14
	Other health diagnosing occupations (085-094)	280393	7441	1,1,15

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB15.	AGGREGATE EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Health assessment and treating occupations (095-112):			
	Registered nurses (095)	280408	7456	1,1,16
	Other health assessment and treating occupations (096-112)	280423	7471	1,1,17
	Teachers, postsecondary (113-154)	280438	7486	1,1,18
	Teachers, except postsecondary (155-162):			
	Teachers, elementary and secondary schools (155-157)	280453	7501	1,1,19
	Other teachers, except postsecondary (158-162)	280468	7516	1,1,20
	Librarians and counselors (163-165)	280483	7531	1,1,21
	Social scientists and urban planners (166-173)	280498	7546	1,1,22
	Social, recreation, and religious workers (174-177)	280513	7561	1,1,23
	Lawyers and judges (178-182)	280528	7576	1,1,24
	Writers, artists, entertainers, and athletes (183-202)	280543	7591	1,1,25
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242):			
	Health technologists and technicians, except licensed practical nurses (203-206, 208-212)	280558	7606	1,1,26
	Licensed practical nurses (207)	280573	7621	1,1,27
	Engineering and science technicians (213-225)	280588	7636	1,1,28
	Technicians, except health, engineering, and science (226-242)	280603	7651	1,1,29
	Sales occupations (243-302):			
	Supervisors and proprietors, sales occupations, salaried (243-252)	280618	7666	1,1,30
	Supervisors and proprietors, sales occupations, self-employed (243-252)	280633	7681	1,1,31
	Sales representatives, finance, and business services (253-257):			
	Real estate sales occupations (254)	280648	7696	1,1,32
	Other finance and business services sales occupations (253, 255-257)	280663	7711	1,1,33
	Sales representatives, commodities, except retail (258-262)	280678	7726	1,1,34
	Sales workers, retail and personal services (263-282):			
	Cashiers (276)	280693	7741	1,1,35
	Other sales workers, retail and personal services (263-275, 277-282)	280708	7756	1,1,36
	Sales related occupations (283-302)	280723	7771	1,1,37
	Administrative support occupations, including clerical (303-402):			
	Supervisors, administrative support occupations (303-307)	280738	7786	1,1,38
	Computer equipment operators (308-312)	280753	7801	1,1,39
	Secretaries, stenographers, and typists (313-315)	280768	7816	1,1,40
	Information clerks (316-324)	280783	7831	1,1,41
	Records processing occupations, except financial (325-336)	280798	7846	1,1,42
	Bookkeepers, accounting, and auditing clerks (337)	280813	7861	1,1,43
	Other financial records processing occupations (338-344)	280828	7876	1,1,44
	Mail and message distributing occupations (354-358)	280843	7891	1,1,45

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB15.	AGGREGATE EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Material recording, scheduling and distributing clerks (359-374)	280858	7906	1,1,46
	Adjusters and investigators (375-378)	280873	7921	1,1,47
	Other administrative support occupations (345-353, 379-402)	280888	7936	1,1,48
	Service occupations (403-472):			
	Private household occupations (403-412)	280903	7951	1,1,49
	Protective service occupations (413-432):			
	Police and firefighters (417-422)	280918	7966	1,1,50
	Guards (425-432)	280933	7981	1,1,51
	Other protective service occupations (413-416, 423-424)	280948	7996	1,1,52
	Food service occupations (433-444):			
	Waiters and waitresses (435)	280963	8011	1,1,53
	Filler	280978	8026	
	End of Segment			
	Cooks (436-437)	281281	301	1,1,54
	Other food service occupations (433-434, 438-444)	281296	316	1,1,55
	Health service occupations (445-447):			
	Nursing aides, orderlies, and attendants (447)	281311	331	1,1,56
	Other health service occupations (445-446)	281326	346	1,1,57
	Cleaning and building service occupations, except household (448-455)	281341	361	1,1,58
	Personal service occupations (456-472):			
	Barbers, hairdressers, and cosmetologists (457-458)	281356	376	1,1,59
	Child care workers (466-468)	281371	391	1,1,60
	Other personal service occupations (456, 459-465, 469-472)	281386	406	1,1,61
	Farming, forestry, and fishing occupations (473-502):			
	Farm operators and managers (473-476)	281401	421	1,1,62
	Farm occupations, except managers (477-484)	281416	436	1,1,63
	Related agricultural occupations (485-493):			
	Groundskeepers and gardeners, except farm (486)	281431	451	1,1,64
	Other related agricultural occupations (485, 487-493)	281446	466	1,1,65
	Forestry and logging occupations (494-496)	281461	481	1,1,66
	Fishers, hunters, and trappers (497-502)	281476	496	1,1,67
	Precision production, craft, and repair occupations (503-702):			
	Auto mechanics and repairers (505-506, 514)	281491	511	1,1,68
	Mechanics and repairers, except auto (503-504, 507-513, 515-552)	281506	526	1,1,69
	Construction trades (553-612):			
	Carpenters (567-572)	281521	541	1,1,70
	Electricians (575-576)	281536	556	1,1,71
	Painters, construction and maintenance (579-582)	281551	571	1,1,72
	Plumbers, pipefitters, and steamfitters (585-587)	281566	586	1,1,73
	Other construction trades (553-566, 573-574, 577-578, 583-584, 588-612)	281581	601	1,1,74
	Extractive occupations (613-627)	281596	616	1,1,75
	Precision production occupations (628-702):			
	Supervisors, production occupations (628-633)	281611	631	1,1,76
	Precision metal working occupations (634-655)	281626	646	1,1,77
	Precision food production occupations (686-688)	281641	661	1,1,78

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB15.	AGGREGATE EARNINGS IN 1989(1) BY EDUCATIONAL ATTAINMENT(7) BY OCCUPATION(94) [658]—Con.			
	Other precision production occupations (656-685, 689-702)	281656	676	1,1,79
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802):			
	Machine operators and tenders, except precision (703-782):			
	Metal working and plastic working machine operators (703-716)	281671	691	1,1,80
	Printing machine operators (734-737)	281686	706	1,1,81
	Textile, apparel, and furnishings machine operators (738-752)	281701	721	1,1,82
	Other machine operators and tenders, except precision (717-733, 753-782)	281716	736	1,1,83
	Fabricators, assemblers, and hand working occupations (783-795)	281731	751	1,1,84
	Production inspectors, testers, samplers, and weighers (796-802)	281746	766	1,1,85
	Transportation and material moving occupations (803-863):			
	Motor vehicle operators (803-822):			
	Truck drivers (804-805)	281761	781	1,1,86
	Bus drivers (808)	281776	796	1,1,87
	Other motor vehicle operators (803, 806-807, 809-822)	281791	811	1,1,88
	Transportation occupations, except motor vehicles (823-842)	281806	826	1,1,89
	Material moving equipment operators (843-863)	281821	841	1,1,90
	Handlers, equipment cleaners, helpers, and laborers (864-902):			
	Construction laborers (869-873)	281836	856	1,1,91
	Freight, stock, and material handlers (875-884)	281851	871	1,1,92
	Hand packers and packagers (888)	281866	886	1,1,93
	Miscellaneous manual occupations (864-868, 874, 885-887, 889-902)	281881	901	1,1,94
	9th to 12th grade, no diploma: (Repeat OCCUPATION)	281896	916	1,2,1
	High school graduate (includes equivalency): (Repeat OCCUPATION)	283306	2326	1,3,1
	Some college, no degree: (Repeat OCCUPATION)	284716	3736	1,4,1
	Associate degree: (Repeat OCCUPATION)	286126	5146	1,5,1
	Bachelor's degree: (Repeat OCCUPATION)	287536	6556	1,6,1
	Graduate or professional degree: (Repeat OCCUPATION)	288946	7966	1,7,1
	Filler	289006	8026	
	End of Segment			
	Graduate or professional degree: (Repeat OCCUPATION)—Con.	289309	301	1,7,5

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB16.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY INDUSTRY(17) [1955]			
	Universe: Black employed persons 16 years and over			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	No earnings:			
	Agriculture, forestry, and fisheries (000-039)	290659	1651	1,1,1
	Mining (040-059)	290668	1660	1,1,2
	Construction (060-099)	290677	1669	1,1,3
	Manufacturing, nondurable goods (100-229)	290686	1678	1,1,4
	Manufacturing, durable goods (230-399)	290695	1687	1,1,5
	Transportation (400-439)	290704	1696	1,1,6
	Communications and other public utilities (440-499)	290713	1705	1,1,7
	Wholesale trade (500-579)	290722	1714	1,1,8
	Retail trade (580-699)	290731	1723	1,1,9
	Finance, insurance, and real estate (700-720)	290740	1732	1,1,10
	Business and repair services (721-760)	290749	1741	1,1,11
	Personal services (761-799)	290758	1750	1,1,12
	Entertainment and recreation services (800-811)	290767	1759	1,1,13
	Professional and related services (812-899):			
	Health services (812-840)	290776	1768	1,1,14
	Educational services (842-860)	290785	1777	1,1,15
	Other professional and related services (841, 861-899)	290794	1786	1,1,16
	Public administration (900-939)	290803	1795	1,1,17
	$1 to $2,499 or loss:			
	(Repeat INDUSTRY)	290812	1804	1,2,1
	$2,500 to $4,999:			
	(Repeat INDUSTRY)	290965	1957	1,3,1
	$5,000 to $7,499:			
	(Repeat INDUSTRY)	291118	2110	1,4,1
	$7,500 to $9,999:			
	(Repeat INDUSTRY)	291271	2263	1,5,1
	$10,000 to $12,499:			
	(Repeat INDUSTRY)	291424	2416	1,6,1
	$12,500 to $14,999:			
	(Repeat INDUSTRY)	291577	2569	1,7,1
	$15,000 to $17,499:			
	(Repeat INDUSTRY)	291730	2722	1,8,1
	$17,500 to $19,999:			
	(Repeat INDUSTRY)	291883	2875	1,9,1
	$20,000 to $22,499:			
	(Repeat INDUSTRY)	292036	3028	1,10,1
	$22,500 to $24,999:			
	(Repeat INDUSTRY)	292189	3181	1,11,1
	$25,000 to $27,499:			
	(Repeat INDUSTRY)	292342	3334	1,12,1
	$27,500 to $29,999:			
	(Repeat INDUSTRY)	292495	3487	1,13,1
	$30,000 to $32,499:			
	(Repeat INDUSTRY)	292648	3640	1,14,1
	$32,500 to $34,999:			
	(Repeat INDUSTRY)	292801	3793	1,15,1
	$35,000 to $37,499:			
	(Repeat INDUSTRY)	292954	3946	1,16,1
	$37,500 to $39,999:			
	(Repeat INDUSTRY)	293107	4099	1,17,1
	$40,000 to $44,999:			
	(Repeat INDUSTRY)	293260	4252	1,18,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB16.	WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY EARNINGS IN 1989(23) BY INDUSTRY(17) [1955]—Con.			
	$45,000 to $49,999:			
	(Repeat INDUSTRY)	293413	4405	1,19,1
	$50,000 to $59,999:			
	(Repeat INDUSTRY)	293566	4558	1,20,1
	$60,000 to $74,999:			
	(Repeat INDUSTRY)	293719	4711	1,21,1
	$75,000 to $99,999:			
	(Repeat INDUSTRY)	293872	4864	1,22,1
	$100,000 or more:			
	(Repeat INDUSTRY)	294025	5017	1,23,1
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)	294178	5170	2,1,1
	Filler	297031	8023	
	End of Segment			
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)—Con.	297337	301	2,19,12
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)	298003	967	3,1,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)	301522	4486	4,1,1
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)	305041	8005	5,1,1
	Filler	305059	8023	
	End of Segment			
	Did not work in 1989:			
	(Repeat EARNINGS IN 1989 By INDUSTRY)—Con.	305365	301	5,1,3
PB16A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY INDUSTRY(17) [85]			
	Universe: Black employed persons 16 years and over			
	Median earnings in 1989:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Agriculture, forestry, and fisheries (000-039)	308866	3802	1,1,1
	Mining (040-059)	308875	3811	1,1,2
	Construction (060-099)	308884	3820	1,1,3
	Manufacturing, nondurable goods (100-229)	308893	3829	1,1,4
	Manufacturing, durable goods (230-399)	308902	3838	1,1,5
	Transportation (400-439)	308911	3847	1,1,6
	Communications and other public utilities (440-499)	308920	3856	1,1,7
	Wholesale trade (500-579)	308929	3865	1,1,8
	Retail trade (580-699)	308938	3874	1,1,9
	Finance, insurance, and real estate (700-720)	308947	3883	1,1,10
	Business and repair services (721-760)	308956	3892	1,1,11
	Personal services (761-799)	308965	3901	1,1,12
	Entertainment and recreation services (800-811)	308974	3910	1,1,13

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB16A.	MEDIAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY INDUSTRY(17) [85]—Con.			
	Professional and related services (812-899):			
	Health services (812-840)	308983	3919	1,1,14
	Educational services (842-860)	308992	3928	1,1,15
	Other professional and related services (841, 861-899)	309001	3937	1,1,16
	Public administration (900-939)	309010	3946	1,1,17
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	309019	3955	1,2,1
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat INDUSTRY)	309172	4108	1,3,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	309325	4261	1,4,1
	Did not work in 1989:			
	(Repeat INDUSTRY)	309478	4414	1,5,1
PB17.	AGGREGATE EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY INDUSTRY(17) [85]			
	Universe: Black employed persons 16 years and over			
	Total:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Agriculture, forestry, and fisheries (000-039)	309631	4567	1,1,1
	Mining (040-059)	309646	4582	1,1,2
	Construction (060-099)	309661	4597	1,1,3
	Manufacturing, nondurable goods (100-229)	309676	4612	1,1,4
	Manufacturing, durable goods (230-399)	309691	4627	1,1,5
	Transportation (400-439)	309706	4642	1,1,6
	Communications and other public utilities (440-499)	309721	4657	1,1,7
	Wholesale trade (500-579)	309736	4672	1,1,8
	Retail trade (580-699)	309751	4687	1,1,9
	Finance, insurance, and real estate (700-720)	309766	4702	1,1,10
	Business and repair services (721-760)	309781	4717	1,1,11
	Personal services (761-799)	309796	4732	1,1,12
	Entertainment and recreation services (800-811)	309811	4747	1,1,13
	Professional and related services (812-899):			
	Health services (812-840)	309826	4762	1,1,14
	Educational services (842-860)	309841	4777	1,1,15
	Other professional and related services (841, 861-899)	309856	4792	1,1,16
	Public administration (900-939)	309871	4807	1,1,17
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	309886	4822	1,2,1
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat INDUSTRY)	310141	5077	1,3,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	310396	5332	1,4,1
	Did not work in 1989:			
	(Repeat INDUSTRY)	310651	5587	1,5,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB17A.	MEAN EARNINGS IN 1989(1) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(5) BY INDUSTRY(17) [85]			
	Universe: Black employed persons 16 years and over			
	Mean earnings in 1989:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks:			
	Agriculture, forestry, and fisheries (000-039)	310906	5842	1,1,1
	Mining (040-059)	310915	5851	1,1,2
	Construction (060-099)	310924	5860	1,1,3
	Manufacturing, nondurable goods (100-229)	310933	5869	1,1,4
	Manufacturing, durable goods (230-399)	310942	5878	1,1,5
	Transportation (400-439)	310951	5887	1,1,6
	Communications and other public utilities (440-499)	310960	5896	1,1,7
	Wholesale trade (500-579)	310969	5905	1,1,8
	Retail trade (580-699)	310978	5914	1,1,9
	Finance, insurance, and real estate (700-720)	310987	5923	1,1,10
	Business and repair services (721-760)	310996	5932	1,1,11
	Personal services (761-799)	311005	5941	1,1,12
	Entertainment and recreation services (800-811)	311014	5950	1,1,13
	Professional and related services (812-899):			
	Health services (812-840)	311023	5959	1,1,14
	Educational services (842-860)	311032	5968	1,1,15
	Other professional and related services (841, 861-899)	311041	5977	1,1,16
	Public administration (900-939)	311050	5986	1,1,17
	Worked in 1989, usually worked 35 or more hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	311059	5995	1,2,1
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks:			
	(Repeat INDUSTRY)	311212	6148	1,3,1
	Worked in 1989, usually worked less than 35 hours per week, less than 50 weeks:			
	(Repeat INDUSTRY)	311365	6301	1,4,1
	Did not work in 1989:			
	(Repeat INDUSTRY)	311518	6454	1,5,1
PB18.	EDUCATIONAL ATTAINMENT(5) BY HOUSEHOLD TYPE AND RELATIONSHIP(12) [60]			
	Universe: Black persons 15 years and over			
	Not high school graduate:			
	In family households:			
	Householder	311671	6607	1,1
	Spouse	311680	6616	1,2
	Child:			
	Natural born or adopted	311689	6625	1,3
	Step	311698	6634	1,4
	Grandchild	311707	6643	1,5
	Other relatives	311716	6652	1,6
	Nonrelatives	311725	6661	1,7
	In nonfamily households:			
	Householder living alone	311734	6670	1,8
	Householder not living alone	311743	6679	1,9
	Nonrelatives	311752	6688	1,10
	In group quarters:			
	Institutionalized persons	311761	6697	1,11
	Other persons in group quarters	311770	6706	1,12
	High school graduate (includes equivalency):			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP)	311779	6715	2,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB18.	EDUCATIONAL ATTAINMENT(5) BY HOUSEHOLD TYPE AND RELATIONSHIP(12) [60]—Con.			
	Some college or associate degree:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP)	311887	6823	3,1
	Bachelor's degree:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP)	311995	6931	4,1
	Graduate or professional degree:			
	(Repeat HOUSEHOLD TYPE AND RELATIONSHIP)	312103	7039	5,1
PB19.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	With 1 own child under 18 years	312211	7147	1,1,1
	With 2 own children under 18 years	312220	7156	1,1,2
	With 3 own children under 18 years	312229	7165	1,1,3
	With 4 own children under 18 years	312238	7174	1,1,4
	With 5 own children under 18 years	312247	7183	1,1,5
	With 6 or more own children under 18 years	312256	7192	1,1,6
	No own children under 18 years	312265	7201	1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	312274	7210	1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312337	7273	2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312463	7399	3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312589	7525	4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312715	7651	5,1,1
PB20.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(4) [40]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	With own children under 6 years only	312841	7777	1,1,1
	With own children 6 to 17 years only	312850	7786	1,1,2
	With own children under 6 years and 6 to 17 years	312859	7795	1,1,3
	No own children under 18 years	312868	7804	1,1,4
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	312877	7813	1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312913	7849	2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	312985	7921	3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	313057	7993	4,1,1

End of Segment

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB20.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(4) [40]—Con.			
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)—Con.	313393	301	4,2,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	313429	337	5,1,1
PB21.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY FAMILY SIZE(4) BY FAMILY INCOME IN 1989(25) [1000]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	2 persons:			
	Less than $5,000	313501	409	1,1,1,1
	$5,000 to $9,999	313510	418	1,1,1,2
	$10,000 to $12,499	313519	427	1,1,1,3
	$12,500 to $14,999	313528	436	1,1,1,4
	$15,000 to $17,499	313537	445	1,1,1,5
	$17,500 to $19,999	313546	454	1,1,1,6
	$20,000 to $22,499	313555	463	1,1,1,7
	$22,500 to $24,999	313564	472	1,1,1,8
	$25,000 to $27,499	313573	481	1,1,1,9
	$27,500 to $29,999	313582	490	1,1,1,10
	$30,000 to $32,499	313591	499	1,1,1,11
	$32,500 to $34,999	313600	508	1,1,1,12
	$35,000 to $37,499	313609	517	1,1,1,13
	$37,500 to $39,999	313618	526	1,1,1,14
	$40,000 to $42,499	313627	535	1,1,1,15
	$42,500 to $44,999	313636	544	1,1,1,16
	$45,000 to $47,499	313645	553	1,1,1,17
	$47,500 to $49,999	313654	562	1,1,1,18
	$50,000 to $54,999	313663	571	1,1,1,19
	$55,000 to $59,999	313672	580	1,1,1,20
	$60,000 to $74,999	313681	589	1,1,1,21
	$75,000 to $99,999	313690	598	1,1,1,22
	$100,000 to $124,999	313699	607	1,1,1,23
	$125,000 to $149,999	313708	616	1,1,1,24
	$150,000 or more	313717	625	1,1,1,25
	3 persons:			
	(Repeat FAMILY INCOME IN 1989)	313726	634	1,1,2,1
	4 persons:			
	(Repeat FAMILY INCOME IN 1989)	313951	859	1,1,3,1
	5 or more persons:			
	(Repeat FAMILY INCOME IN 1989)	314176	1084	1,1,4,1
	Other family householder:			
	(Repeat FAMILY SIZE By FAMILY INCOME IN 1989)	314401	1309	1,2,1,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By FAMILY SIZE By FAMILY INCOME IN 1989)	315301	2209	2,1,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE By FAMILY INCOME IN 1989)	317101	4009	3,1,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE By FAMILY INCOME IN 1989)	318901	5809	4,1,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB21.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY FAMILY SIZE(4) BY FAMILY INCOME IN 1989(25) [1000]—Con.			
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE By FAMILY INCOME IN 1989)	320701	7609	5,1,1,1
	Filler	321115	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE By FAMILY INCOME IN 1989)—Con.	321421	301	5,1,2,22
PB21A.	MEDIAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY FAMILY SIZE(4) [40]			
	Universe: Families with a Black householder			
	Median family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	2 persons	322807	1687	1,1,1,1
	3 persons	322816	1696	1,1,1,2
	4 persons	322825	1705	1,1,1,3
	5 or more persons	322834	1714	1,1,1,4
	Other family householder:			
	(Repeat FAMILY SIZE)	322843	1723	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By FAMILY SIZE)	322879	1759	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	322951	1831	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323023	1903	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323095	1975	1,5,1,1
PB22.	AGGREGATE FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY FAMILY SIZE(4) [40]			
	Universe: Families with a Black householder			
	Total:			
	Not high school graduate:			
	Married-couple family householder:			
	2 persons	323167	2047	1,1,1,1
	3 persons	323182	2062	1,1,1,2
	4 persons	323197	2077	1,1,1,3
	5 or more persons	323212	2092	1,1,1,4
	Other family householder:			
	(Repeat FAMILY SIZE)	323227	2107	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323287	2167	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323407	2287	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323527	2407	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323647	2527	1,5,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB22A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY FAMILY SIZE(4) [40]			
	Universe: Families with a Black householder			
	Mean family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	2 persons	323767	2647	1,1,1,1
	3 persons	323776	2656	1,1,1,2
	4 persons	323785	2665	1,1,1,3
	5 or more persons	323794	2674	1,1,1,4
	Other family householder:			
	(Repeat FAMILY SIZE)	323803	2683	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323839	2719	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323911	2791	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	323983	2863	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By FAMILY SIZE)	324055	2935	1,5,1,1
PB23.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) BY FAMILY INCOME IN 1989(25) [1750]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 18 years:			
	Less than $5,000	324127	3007	1,1,1,1
	$5,000 to $9,999	324136	3016	1,1,1,2
	$10,000 to $12,499	324145	3025	1,1,1,3
	$12,500 to $14,999	324154	3034	1,1,1,4
	$15,000 to $17,499	324163	3043	1,1,1,5
	$17,500 to $19,999	324172	3052	1,1,1,6
	$20,000 to $22,499	324181	3061	1,1,1,7
	$22,500 to $24,999	324190	3070	1,1,1,8
	$25,000 to $27,499	324199	3079	1,1,1,9
	$27,500 to $29,999	324208	3088	1,1,1,10
	$30,000 to $32,499	324217	3097	1,1,1,11
	$32,500 to $34,999	324226	3106	1,1,1,12
	$35,000 to $37,499	324235	3115	1,1,1,13
	$37,500 to $39,999	324244	3124	1,1,1,14
	$40,000 to $42,499	324253	3133	1,1,1,15
	$42,500 to $44,999	324262	3142	1,1,1,16
	$45,000 to $47,499	324271	3151	1,1,1,17
	$47,500 to $49,999	324280	3160	1,1,1,18
	$50,000 to $54,999	324289	3169	1,1,1,19
	$55,000 to $59,999	324298	3178	1,1,1,20
	$60,000 to $74,999	324307	3187	1,1,1,21
	$75,000 to $99,999	324316	3196	1,1,1,22
	$100,000 to $124,999	324325	3205	1,1,1,23
	$125,000 to $149,999	324334	3214	1,1,1,24
	$150,000 or more	324343	3223	1,1,1,25
	2 related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	324352	3232	1,1,2,1
	3 related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	324577	3457	1,1,3,1
	4 related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	324802	3682	1,1,4,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB23.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) BY FAMILY INCOME IN 1989(25) [1750]—Con.			
	5 related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	325027	3907	1,1,5,1
	6 or more related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	325252	4132	1,1,6,1
	No related children under 18 years:			
	(Repeat FAMILY INCOME IN 1989)	325477	4357	1,1,7,1
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	325702	4582	1,2,1,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	327277	6157	2,1,1,1
	End of Segment			
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)—Con.	329449	301	2,2,2,9
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	330727	1579	3,1,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	333877	4729	4,1,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	337027	7879	5,1,1,1
	Filler	337171	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)—Con.	337477	301	5,1,1,17
PB23A.	MEDIAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Median family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 18 years	340483	3307	1,1,1,1
	2 related children under 18 years	340492	3316	1,1,1,2
	3 related children under 18 years	340501	3325	1,1,1,3
	4 related children under 18 years	340510	3334	1,1,1,4
	5 related children under 18 years	340519	3343	1,1,1,5
	6 or more related children under 18 years	340528	3352	1,1,1,6
	No related children under 18 years	340537	3361	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	340546	3370	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	340609	3433	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	340735	3559	1,3,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB23A.	MEDIAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]—Con.			
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	340861	3685	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	340987	3811	1,5,1,1
PB24.	AGGREGATE FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Total:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 18 years	341113	3937	1,1,1,1
	2 related children under 18 years	341128	3952	1,1,1,2
	3 related children under 18 years	341143	3967	1,1,1,3
	4 related children under 18 years	341158	3982	1,1,1,4
	5 related children under 18 years	341173	3997	1,1,1,5
	6 or more related children under 18 years	341188	4012	1,1,1,6
	No related children under 18 years	341203	4027	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	341218	4042	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	341323	4147	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	341533	4357	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	341743	4567	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	341953	4777	1,5,1,1
PB24A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Mean family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 18 years	342163	4987	1,1,1,1
	2 related children under 18 years	342172	4996	1,1,1,2
	3 related children under 18 years	342181	5005	1,1,1,3
	4 related children under 18 years	342190	5014	1,1,1,4
	5 related children under 18 years	342199	5023	1,1,1,5
	6 or more related children under 18 years	342208	5032	1,1,1,6
	No related children under 18 years	342217	5041	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	342226	5050	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	342289	5113	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	342415	5239	1,3,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB24A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]—Con.			
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	342541	5365	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	342667	5491	1,5,1,1
PB25.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) BY FAMILY INCOME IN 1989(25) [1750]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 6 years:			
	Less than $5,000	342793	5617	1,1,1,1
	$5,000 to $9,999	342802	5626	1,1,1,2
	$10,000 to $12,499	342811	5635	1,1,1,3
	$12,500 to $14,999	342820	5644	1,1,1,4
	$15,000 to $17,499	342829	5653	1,1,1,5
	$17,500 to $19,999	342838	5662	1,1,1,6
	$20,000 to $22,499	342847	5671	1,1,1,7
	$22,500 to $24,999	342856	5680	1,1,1,8
	$25,000 to $27,499	342865	5689	1,1,1,9
	$27,500 to $29,999	342874	5698	1,1,1,10
	$30,000 to $32,499	342883	5707	1,1,1,11
	$32,500 to $34,999	342892	5716	1,1,1,12
	$35,000 to $37,499	342901	5725	1,1,1,13
	$37,500 to $39,999	342910	5734	1,1,1,14
	$40,000 to $42,499	342919	5743	1,1,1,15
	$42,500 to $44,999	342928	5752	1,1,1,16
	$45,000 to $47,499	342937	5761	1,1,1,17
	$47,500 to $49,999	342946	5770	1,1,1,18
	$50,000 to $54,999	342955	5779	1,1,1,19
	$55,000 to $59,999	342964	5788	1,1,1,20
	$60,000 to $74,999	342973	5797	1,1,1,21
	$75,000 to $99,999	342982	5806	1,1,1,22
	$100,000 to $124,999	342991	5815	1,1,1,23
	$125,000 to $149,999	343000	5824	1,1,1,24
	$150,000 or more	343009	5833	1,1,1,25
	2 related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	343018	5842	1,1,2,1
	3 related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	343243	6067	1,1,3,1
	4 related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	343468	6292	1,1,4,1
	5 related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	343693	6517	1,1,5,1
	6 or more related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	343918	6742	1,1,6,1
	No related children under 6 years:			
	(Repeat FAMILY INCOME IN 1989)	344143	6967	1,1,7,1
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	344368	7192	1,2,1,1

End of Segment

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB25.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) BY FAMILY INCOME IN 1989(25) [1750]—Con.			
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)—Con.	345505	301	1,2,4,19
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	346243	1039	2,1,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	349393	4189	3,1,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	352543	7339	4,1,1,1
	Filler	353227	8023	
	End of Segment			
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)—Con.	353533	301	4,1,4,2
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN By FAMILY INCOME IN 1989)	355999	2767	5,1,1,1
PB25A.	MEDIAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Median family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 6 years	359149	5917	1,1,1,1
	2 related children under 6 years	359158	5926	1,1,1,2
	3 related children under 6 years	359167	5935	1,1,1,3
	4 related children under 6 years	359176	5944	1,1,1,4
	5 related children under 6 years	359185	5953	1,1,1,5
	6 or more related children under 6 years	359194	5962	1,1,1,6
	No related children under 6 years	359203	5971	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	359212	5980	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	359275	6043	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	359401	6169	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	359527	6295	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	359653	6421	1,5,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB26.	AGGREGATE FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Total:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 6 years	359779	6547	1,1,1,1
	2 related children under 6 years	359794	6562	1,1,1,2
	3 related children under 6 years	359809	6577	1,1,1,3
	4 related children under 6 years	359824	6592	1,1,1,4
	5 related children under 6 years	359839	6607	1,1,1,5
	6 or more related children under 6 years	359854	6622	1,1,1,6
	No related children under 6 years	359869	6637	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	359884	6652	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	359989	6757	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	360199	6967	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	360409	7177	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	360619	7387	1,5,1,1
PB26A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]			
	Universe: Families with a Black householder			
	Mean family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	1 related child under 6 years	360829	7597	1,1,1,1
	2 related children under 6 years	360838	7606	1,1,1,2
	3 related children under 6 years	360847	7615	1,1,1,3
	4 related children under 6 years	360856	7624	1,1,1,4
	5 related children under 6 years	360865	7633	1,1,1,5
	6 or more related children under 6 years	360874	7642	1,1,1,6
	No related children under 6 years	360883	7651	1,1,1,7
	Other family householder:			
	(Repeat PRESENCE AND AGE OF CHILDREN)	360892	7660	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	360955	7723	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	361081	7849	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	361207	7975	1,4,1,1
	End of Segment			
	Bachelor's degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)—Con.	361561	301	49

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB26A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY PRESENCE AND AGE OF CHILDREN(7) [70]—Con.			
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By PRESENCE AND AGE OF CHILDREN)	361633	373	1,5,1,1
PB27.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY EMPLOYMENT STATUS(4) BY FAMILY INCOME IN 1989(25) [1000]			
	Universe: Families with a Black householder			
	Not high school graduate:			
	Married-couple family householder:			
	No workers:			
	Less than $5,000	361759	499	1,1,1,1
	$5,000 to $9,999	361768	508	1,1,1,2
	$10,000 to $12,499	361777	517	1,1,1,3
	$12,500 to $14,999	361786	526	1,1,1,4
	$15,000 to $17,499	361795	535	1,1,1,5
	$17,500 to $19,999	361804	544	1,1,1,6
	$20,000 to $22,499	361813	553	1,1,1,7
	$22,500 to $24,999	361822	562	1,1,1,8
	$25,000 to $27,499	361831	571	1,1,1,9
	$27,500 to $29,999	361840	580	1,1,1,10
	$30,000 to $32,499	361849	589	1,1,1,11
	$32,500 to $34,999	361858	598	1,1,1,12
	$35,000 to $37,499	361867	607	1,1,1,13
	$37,500 to $39,999	361876	616	1,1,1,14
	$40,000 to $42,499	361885	625	1,1,1,15
	$42,500 to $44,999	361894	634	1,1,1,16
	$45,000 to $47,499	361903	643	1,1,1,17
	$47,500 to $49,999	361912	652	1,1,1,18
	$50,000 to $54,999	361921	661	1,1,1,19
	$55,000 to $59,999	361930	670	1,1,1,20
	$60,000 to $74,999	361939	679	1,1,1,21
	$75,000 to $99,999	361948	688	1,1,1,22
	$100,000 to $124,999	361957	697	1,1,1,23
	$125,000 to $149,999	361966	706	1,1,1,24
	$150,000 or more	361975	715	1,1,1,25
	1 worker:			
	(Repeat FAMILY INCOME IN 1989)	361984	724	1,1,2,1
	2 workers:			
	(Repeat FAMILY INCOME IN 1989)	362209	949	1,1,3,1
	3 or more workers:			
	(Repeat FAMILY INCOME IN 1989)	362434	1174	1,1,4,1
	Other family householder:			
	(Repeat EMPLOYMENT STATUS By FAMILY INCOME IN 1989)	362659	1399	1,2,1,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS By FAMILY INCOME IN 1989)	363559	2299	2,1,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS By FAMILY INCOME IN 1989)	365359	4099	3,1,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS By FAMILY INCOME IN 1989)	367159	5899	4,1,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS By FAMILY INCOME IN 1989)	368959	7699	5,1,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB27.	EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY EMPLOYMENT STATUS(4) BY FAMILY INCOME IN 1989(25) [1000]—Con.			
	Filler	369283	8023	
	End of Segment			
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS By FAMILY INCOME IN 1989)—Con.	369589	301	5,1,2,12
PB27A.	MEDIAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY EMPLOYMENT STATUS(4) [40]			
	Universe: Families with a Black householder			
	Median family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	No workers	371065	1777	1,1,1,1
	1 worker	371074	1786	1,1,1,2
	2 workers	371083	1795	1,1,1,3
	3 or more workers	371092	1804	1,1,1,4
	Other family householder:			
	(Repeat EMPLOYMENT STATUS)	371101	1813	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371137	1849	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371209	1921	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371281	1993	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371353	2065	1,5,1,1
PB28.	AGGREGATE FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY EMPLOYMENT STATUS(4) [40]			
	Universe: Families with a Black householder			
	Total:			
	Not high school graduate:			
	Married-couple family householder:			
	No workers	371425	2137	1,1,1,1
	1 worker	371440	2152	1,1,1,2
	2 workers	371455	2167	1,1,1,3
	3 or more workers	371470	2182	1,1,1,4
	Other family householder:			
	(Repeat EMPLOYMENT STATUS)	371485	2197	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371545	2257	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371665	2377	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371785	2497	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	371905	2617	1,5,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB28A.	MEAN FAMILY INCOME IN 1989(1) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY FAMILY TYPE(2) BY EMPLOYMENT STATUS(4) [40]			
	Universe: Families with a Black householder			
	Mean family income in 1989:			
	Not high school graduate:			
	Married-couple family householder:			
	No workers	372025	2737	1,1,1,1
	1 worker	372034	2746	1,1,1,2
	2 workers	372043	2755	1,1,1,3
	3 or more workers	372052	2764	1,1,1,4
	Other family householder:			
	(Repeat EMPLOYMENT STATUS)	372061	2773	1,1,2,1
	High school graduate (includes equivalency):			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	372097	2809	1,2,1,1
	Some college or associate degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	372169	2881	1,3,1,1
	Bachelor's degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	372241	2953	1,4,1,1
	Graduate or professional degree:			
	(Repeat FAMILY TYPE By EMPLOYMENT STATUS)	372313	3025	1,5,1,1
PB29.	POVERTY STATUS IN 1989(2) BY FAMILY TYPE(2) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(7) [140]			
	Universe: Families with a Black civilian householder			
	Income in 1989 above poverty level:			
	Married-couple family householder:			
	Not high school graduate:			
	Worked in 1989, usually worked 35 or more hours per week, 50 to 52 weeks	372385	3097	1,1,1,1
	Worked in 1989, usually worked 35 or more hours per week, 27 to 49 weeks	372394	3106	1,1,1,2
	Worked in 1989, usually worked 35 or more hours per week, less than 27 weeks	372403	3115	1,1,1,3
	Worked in 1989, usually worked less than 35 hours per week, 50 to 52 weeks	372412	3124	1,1,1,4
	Worked in 1989, usually worked less than 35 hours per week, 27 to 49 weeks	372421	3133	1,1,1,5
	Worked in 1989, usually worked less than 35 hours per week, less than 27 weeks	372430	3142	1,1,1,6
	Did not work in 1989	372439	3151	1,1,1,7
	High school graduate (includes equivalency):			
	(Repeat WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	372448	3160	1,1,2,1
	Some college or associate degree:			
	(Repeat WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	372511	3223	1,1,3,1
	Bachelor's degree:			
	(Repeat WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	372574	3286	1,1,4,1
	Graduate or professional degree:			
	(Repeat WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	372637	3349	1,1,5,1
	Other family householder:			
	(Repeat EDUCATIONAL ATTAINMENT OF HOUSEHOLDER By WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	372700	3412	1,2,1,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB29.	POVERTY STATUS IN 1989(2) BY FAMILY TYPE(2) BY EDUCATIONAL ATTAINMENT OF HOUSEHOLDER(5) BY WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989(7) [140]—Con.			
	Income in 1989 below poverty level:			
	(Repeat FAMILY TYPE By EDUCATIONAL ATTAINMENT OF HOUSEHOLDER By WEEKS WORKED IN 1989 AND USUAL HOURS WORKED PER WEEK IN 1989)	373015	3727	2,1,1,1
PB30.	PERIOD OF MILITARY SERVICE(13) [13]			
	Universe: Black civilian veterans 16 years and over			
	May 1975 or later only:			
	September 1980 or later only:			
	With less than 2 years of service	373645	4357	1
	With 2 or more years of service	373654	4366	2
	May 1975 to August 1980 only	373663	4375	3
	Both, May 1975 to August 1980 and September 1980 or later	373672	4384	4
	Vietnam era, no Korean conflict nor World War II	373681	4393	5
	Vietnam era and Korean conflict, no World War II	373690	4402	6
	Vietnam era, Korean conflict, and World War II	373699	4411	7
	February 1955 to July 1964 only	373708	4420	8
	Korean conflict, no Vietnam era nor World War II	373717	4429	9
	Korean conflict and World War II, no Vietnam era	373726	4438	10
	World War II, no Korean conflict nor Vietnam era	373735	4447	11
	World War I	373744	4456	12
	Other service	373753	4465	13
PB32.	PERIOD OF MILITARY SERVICE(13) BY MARITAL STATUS(6) [78]			
	Universe: Black civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Never married	373762	4474	1,1
	Now married:			
	Married, spouse present	373771	4483	1,2
	Married, spouse absent:			
	Separated	373780	4492	1,3
	Other	373789	4501	1,4
	Widowed	373798	4510	1,5
	Divorced	373807	4519	1,6
	September 1980 or later only, with 2 or more years of service:			
	(Repeat MARITAL STATUS)	373816	4528	2,1
	May 1975 to August 1980 only:			
	(Repeat MARITAL STATUS)	373870	4582	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat MARITAL STATUS)	373924	4636	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat MARITAL STATUS)	373978	4690	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat MARITAL STATUS)	374032	4744	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat MARITAL STATUS)	374086	4798	7,1
	February 1955 to July 1964 only:			
	(Repeat MARITAL STATUS)	374140	4852	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat MARITAL STATUS)	374194	4906	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat MARITAL STATUS)	374248	4960	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat MARITAL STATUS)	374302	5014	11,1
	World War I:			
	(Repeat MARITAL STATUS)	374356	5068	12,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB32.	PERIOD OF MILITARY SERVICE(13) BY MARITAL STATUS(6) [78]—Con.			
	Other service:			
	(Repeat MARITAL STATUS)	374410	5122	13,1
PB34.	PERIOD OF MILITARY SERVICE(13) BY SCHOOL ENROLLMENT AND TYPE OF SCHOOL(7) [91]			
	Universe: Black civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Enrolled in preprimary school:			
	Public school	374464	5176	1,1
	Private school	374473	5185	1,2
	Enrolled in elementary or high school:			
	Public school	374482	5194	1,3
	Private school	374491	5203	1,4
	Enrolled in college:			
	Public school	374500	5212	1,5
	Private school	374509	5221	1,6
	Not enrolled in school	374518	5230	1,7
	September 1980 or later only, with 2 or more years of service:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374527	5239	2,1
	May 1975 to August 1980 only:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374590	5302	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374653	5365	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374716	5428	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374779	5491	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374842	5554	7,1
	February 1955 to July 1964 only:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374905	5617	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	374968	5680	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	375031	5743	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	375094	5806	11,1
	World War I:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	375157	5869	12,1
	Other service:			
	(Repeat SCHOOL ENROLLMENT AND TYPE OF SCHOOL)	375220	5932	13,1
PB36.	PERIOD OF MILITARY SERVICE(13) BY EDUCATIONAL ATTAINMENT(5) [65]			
	Universe: Black civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Not high school graduate	375283	5995	1,1
	High school graduate (includes equivalency)	375292	6004	1,2
	Some college or associate degree	375301	6013	1,3
	Bachelor's degree	375310	6022	1,4
	Graduate or professional degree	375319	6031	1,5
	September 1980 or later only, with 2 or more years of service:			
	(Repeat EDUCATIONAL ATTAINMENT)	375328	6040	2,1
	May 1975 to August 1980 only:			
	(Repeat EDUCATIONAL ATTAINMENT)	375373	6085	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat EDUCATIONAL ATTAINMENT)	375418	6130	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat EDUCATIONAL ATTAINMENT)	375463	6175	5,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB36.	PERIOD OF MILITARY SERVICE(13) BY EDUCATIONAL ATTAINMENT(5) [65]—Con.			
	Vietnam era and Korean conflict, no World War II:			
	(Repeat EDUCATIONAL ATTAINMENT)	375508	6220	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat EDUCATIONAL ATTAINMENT)	375553	6265	7,1
	February 1955 to July 1964 only:			
	(Repeat EDUCATIONAL ATTAINMENT)	375598	6310	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat EDUCATIONAL ATTAINMENT)	375643	6355	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat EDUCATIONAL ATTAINMENT)	375688	6400	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat EDUCATIONAL ATTAINMENT)	375733	6445	11,1
	World War I:			
	(Repeat EDUCATIONAL ATTAINMENT)	375778	6490	12,1
	Other service:			
	(Repeat EDUCATIONAL ATTAINMENT)	375823	6535	13,1
PB38.	PERIOD OF MILITARY SERVICE(13) BY MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS(8) [104]			
	Universe: Black civilian noninstitutionalized veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	With a mobility or self-care limitation:			
	Mobility limitation only:			
	In labor force	375868	6580	1,1
	Not in labor force	375877	6589	1,2
	Self-care limitation only:			
	In labor force	375886	6598	1,3
	Not in labor force	375895	6607	1,4
	Mobility and self-care limitation:			
	In labor force	375904	6616	1,5
	Not in labor force	375913	6625	1,6
	No mobility or self-care limitation:			
	In labor force	375922	6634	1,7
	Not in labor force	375931	6643	1,8
	September 1980 or later only, with 2 or more years of service:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	375940	6652	2,1
	May 1975 to August 1980 only:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376012	6724	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376084	6796	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376156	6868	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376228	6940	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376300	7012	7,1
	February 1955 to July 1964 only:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376372	7084	8,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB38.	PERIOD OF MILITARY SERVICE(13) BY MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS(8) [104]—Con.			
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376444	7156	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376516	7228	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376588	7300	11,1
	World War I:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376660	7372	12,1
	Other service:			
	(Repeat MOBILITY AND SELF-CARE LIMITATION STATUS AND EMPLOYMENT STATUS)	376732	7444	13,1
PB39.	PERIOD OF MILITARY SERVICE(13) BY EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED(11) [143]			
	Universe: Black veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	In labor force:			
	In Armed Forces	376804	7516	1,1
	Civilian:			
	Employed:			
	At work 35 or more hours	376813	7525	1,2
	At work 15 to 34 hours	376822	7534	1,3
	At work 1 to 14 hours	376831	7543	1,4
	With a job, but not at work	376840	7552	1,5
	Unemployed:			
	Last worked 1989 to 1990	376849	7561	1,6
	Last worked 1988 or earlier	376858	7570	1,7
	Never worked	376867	7579	1,8
	Not in labor force:			
	Persons in households	376876	7588	1,9
	Institutionalized persons	376885	7597	1,10
	Other persons in group quarters	376894	7606	1,11
	September 1980 or later only, with 2 or more years of service:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	376903	7615	2,1
	May 1975 to August 1980 only:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377002	7714	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377101	7813	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377200	7912	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377299	8011	6,1
	End of Segment			

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB39.	PERIOD OF MILITARY SERVICE(13) BY EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED(11) [143]—Con.			
	Vietnam era and Korean conflict, no World War II:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)—Con.	377617	301	6,3
	Vietnam era, Korean conflict, and World War II:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377698	382	7,1
	February 1955 to July 1964 only:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377797	481	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377896	580	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	377995	679	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	378094	778	11,1
	World War I:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	378193	877	12,1
	Other service:			
	(Repeat EMPLOYMENT STATUS, HOURS WORKED LAST WEEK, AND YEAR LAST WORKED)	378292	976	13,1
PB40.	PERIOD OF MILITARY SERVICE(13) BY OCCUPATION(13) [169]			
	Universe: Black employed civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Managerial and professional specialty occupations (000-202):			
	Executive, administrative, and managerial occupations (000-042)	378391	1075	1,1
	Professional specialty occupations (043-202)	378400	1084	1,2
	Technical, sales, and administrative support occupations (203-402):			
	Technicians and related support occupations (203-242)	378409	1093	1,3
	Sales occupations (243-302)	378418	1102	1,4
	Administrative support occupations, including clerical (303-402)	378427	1111	1,5
	Service occupations (403-472):			
	Private household occupations (403-412)	378436	1120	1,6
	Protective service occupations (413-432)	378445	1129	1,7
	Service occupations, except protective and household (433-472)	378454	1138	1,8
	Farming, forestry, and fishing occupations (473-502)	378463	1147	1,9
	Precision production, craft, and repair occupations (503-702)	378472	1156	1,10
	Operators, fabricators, and laborers (703-902):			
	Machine operators, assemblers, and inspectors (703-802)	378481	1165	1,11
	Transportation and material moving occupations (803-863)	378490	1174	1,12
	Handlers, equipment cleaners, helpers, and laborers (864-902)	378499	1183	1,13
	September 1980 or later only, with 2 or more years of service:			
	(Repeat OCCUPATION)	378508	1192	2,1
	May 1975 to August 1980 only:			
	(Repeat OCCUPATION)	378625	1309	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat OCCUPATION)	378742	1426	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat OCCUPATION)	378859	1543	5,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB40.	PERIOD OF MILITARY SERVICE(13) BY OCCUPATION(13) [169]—Con.			
	Vietnam era and Korean conflict, no World War II:			
	(Repeat OCCUPATION)	378976	1660	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat OCCUPATION)	379093	1777	7,1
	February 1955 to July 1964 only:			
	(Repeat OCCUPATION)	379210	1894	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat OCCUPATION)	379327	2011	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat OCCUPATION)	379444	2128	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat OCCUPATION)	379561	2245	11,1
	World War I:			
	(Repeat OCCUPATION)	379678	2362	12,1
	Other service:			
	(Repeat OCCUPATION)	379795	2479	13,1
PB41.	PERIOD OF MILITARY SERVICE(13) BY INDUSTRY(17) [221]			
	Universe: Black employed civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Agriculture, forestry, and fisheries (000-039)	379912	2596	1,1
	Mining (040-059)	379921	2605	1,2
	Construction (060-099)	379930	2614	1,3
	Manufacturing, nondurable goods (100-229)	379939	2623	1,4
	Manufacturing; durable goods (230-399)	379948	2632	1,5
	Transportation (400-439)	379957	2641	1,6
	Communications and other public utilities (440-499)	379966	2650	1,7
	Wholesale trade (500-579)	379975	2659	1,8
	Retail trade (580-699)	379984	2668	1,9
	Finance, insurance, and real estate (700-720)	379993	2677	1,10
	Business and repair services (721-760)	380002	2686	1,11
	Personal services (761-799)	380011	2695	1,12
	Entertainment and recreation services (800-811)	380020	2704	1,13
	Professional and related services (812-899):			
	Health services (812-840)	380029	2713	1,14
	Educational services (842-860)	380038	2722	1,15
	Other professional and related services (841, 861-899)	380047	2731	1,16
	Public administration (900-939)	380056	2740	1,17
	September 1980 or later only, with 2 or more years of service:			
	(Repeat INDUSTRY)	380065	2749	2,1
	May 1975 to August 1980 only:			
	(Repeat INDUSTRY)	380218	2902	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat INDUSTRY)	380371	3055	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat INDUSTRY)	380524	3208	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat INDUSTRY)	380677	3361	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat INDUSTRY)	380830	3514	7,1
	February 1955 to July 1964 only:			
	(Repeat INDUSTRY)	380983	3667	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat INDUSTRY)	381136	3820	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat INDUSTRY)	381289	3973	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat INDUSTRY)	381442	4126	11,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
PB41.	PERIOD OF MILITARY SERVICE(13) BY INDUSTRY(17) [221]—Con.			
	World War I:			
	(Repeat INDUSTRY)	381595	4279	12,1
	Other service:			
	(Repeat INDUSTRY)	381748	4432	13,1
PB42.	PERIOD OF MILITARY SERVICE(13) BY CLASS OF WORKER(7) [91]			
	Universe: Black employed civilian veterans 16 years and over			
	September 1980 or later only, with less than 2 years of service:			
	Private for profit wage and salary workers	381901	4585	1,1
	Private not-for-profit wage and salary workers	381910	4594	1,2
	Local government workers	381919	4603	1,3
	State government workers	381928	4612	1,4
	Federal government workers	381937	4621	1,5
	Self-employed workers	381946	4630	1,6
	Unpaid family workers	381955	4639	1,7
	September 1980 or later only, with 2 or more years of service:			
	(Repeat CLASS OF WORKER)	381964	4648	2,1
	May 1975 to August 1980 only:			
	(Repeat CLASS OF WORKER)	382027	4711	3,1
	Both, May 1975 to August 1980 and September 1980 or later:			
	(Repeat CLASS OF WORKER)	382090	4774	4,1
	Vietnam era, no Korean conflict nor World War II:			
	(Repeat CLASS OF WORKER)	382153	4837	5,1
	Vietnam era and Korean conflict, no World War II:			
	(Repeat CLASS OF WORKER)	382216	4900	6,1
	Vietnam era, Korean conflict, and World War II:			
	(Repeat CLASS OF WORKER)	382279	4963	7,1
	February 1955 to July 1964 only:			
	(Repeat CLASS OF WORKER)	382342	5026	8,1
	Korean conflict, no Vietnam era nor World War II:			
	(Repeat CLASS OF WORKER)	382405	5089	9,1
	Korean conflict and World War II, no Vietnam era:			
	(Repeat CLASS OF WORKER)	382468	5152	10,1
	World War II, no Korean conflict nor Vietnam era:			
	(Repeat CLASS OF WORKER)	382531	5215	11,1
	World War I:			
	(Repeat CLASS OF WORKER)	382594	5278	12,1
	Other service:			
	(Repeat CLASS OF WORKER)	382657	5341	13,1
HB1.	TENURE(2) BY UNITS IN STRUCTURE(6) [12]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	1, detached	382720	5404	1,1
	1, attached	382729	5413	1,2
	2	382738	5422	1,3
	3 or more	382747	5431	1,4
	Mobile home or trailer	382756	5440	1,5
	Other	382765	5449	1,6
	Renter occupied:			
	(Repeat UNITS IN STRUCTURE)	382774	5458	2,1
HB2.	TENURE(2) BY YEAR STRUCTURE BUILT(8) [16]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	1989 to March 1990	382828	5512	1,1
	1985 to 1988	382837	5521	1,2
	1980 to 1984	382846	5530	1,3

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
HB2.	TENURE(2) BY YEAR STRUCTURE BUILT(8) [16]—Con.			
	1970 to 1979	382855	5539	1,4
	1960 to 1969	382864	5548	1,5
	1950 to 1959	382873	5557	1,6
	1940 to 1949	382882	5566	1,7
	1939 or earlier	382891	5575	1,8
	Renter occupied:			
	(Repeat YEAR STRUCTURE BUILT)	382900	5584	2,1
HB3.	TENURE(2) BY YEAR HOUSEHOLDER MOVED INTO UNIT(6) [12]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	1989 to March 1990	382972	5656	1,1
	1985 to 1988	382981	5665	1,2
	1980 to 1984	382990	5674	1,3
	1970 to 1979	382999	5683	1,4
	1960 to 1969	383008	5692	1,5
	1959 or earlier	383017	5701	1,6
	Renter occupied:			
	(Repeat YEAR HOUSEHOLDER MOVED INTO UNIT)	383026	5710	2,1
HB4.	TENURE(2) BY PERSONS IN UNIT(5) [10]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	1 person	383080	5764	1,1
	2 persons	383089	5773	1,2
	3 persons	383098	5782	1,3
	4 persons	383107	5791	1,4
	5 or more persons	383116	5800	1,5
	Renter occupied:			
	(Repeat PERSONS IN UNIT)	383125	5809	2,1
HB5.	TENURE(2) BY ROOMS(9) [18]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	1 room	383170	5854	1,1
	2 rooms	383179	5863	1,2
	3 rooms	383188	5872	1,3
	4 rooms	383197	5881	1,4
	5 rooms	383206	5890	1,5
	6 rooms	383215	5899	1,6
	7 rooms	383224	5908	1,7
	8 rooms	383233	5917	1,8
	9 or more rooms	383242	5926	1,9
	Renter occupied:			
	(Repeat ROOMS)	383251	5935	2,1
HB6.	TENURE(2) BY PERSONS PER ROOM(7) [14]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	0.50 or less	383332	6016	1,1
	0.51 to 0.75	383341	6025	1,2
	0.76 to 1.00	383350	6034	1,3
	1.01 to 1.25	383359	6043	1,4
	1.26 to 1.50	383368	6052	1,5
	1.51 to 2.00	383377	6061	1,6
	2.01 or more	383386	6070	1,7
	Renter occupied:			
	(Repeat PERSONS PER ROOM)	383395	6079	2,1

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
HB7.	TENURE(2) BY BEDROOMS(6) [12]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	No bedroom	383458	6142	1,1
	1 bedroom	383467	6151	1,2
	2 bedrooms	383476	6160	1,3
	3 bedrooms	383485	6169	1,4
	4 bedrooms	383494	6178	1,5
	5 or more bedrooms	383503	6187	1,6
	Renter occupied:			
	(Repeat BEDROOMS)	383512	6196	2,1
HB8.	TENURE(2) BY SOURCE OF WATER(4) [8]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	Public system or private company	383566	6250	1,1
	Individual well:			
	Drilled	383575	6259	1,2
	Dug	383584	6268	1,3
	Some other source	383593	6277	1,4
	Renter occupied:			
	(Repeat SOURCE OF WATER)	383602	6286	2,1
HB9.	TENURE(2) BY SEWAGE DISPOSAL(3) [6]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	Public sewer	383638	6322	1,1
	Septic tank or cesspool	383647	6331	1,2
	Other means	383656	6340	1,3
	Renter occupied:			
	(Repeat SEWAGE DISPOSAL)	383665	6349	2,1
HB10.	TENURE(2) BY PLUMBING FACILITIES(2) [4]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	Complete plumbing facilities	383692	6376	1,1
	Lacking complete plumbing facilities	383701	6385	1,2
	Renter occupied:			
	(Repeat PLUMBING FACILITIES)	383710	6394	2,1
HB11.	TENURE(2) BY KITCHEN FACILITIES(2) [4]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	Complete kitchen facilities	383728	6412	1,1
	Lacking complete kitchen facilities	383737	6421	1,2
	Renter occupied:			
	(Repeat KITCHEN FACILITIES)	383746	6430	2,1
HB12.	TENURE(2) BY TELEPHONE IN HOUSING UNIT(2) [4]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	With telephone	383764	6448	1,1
	No telephone	383773	6457	1,2
	Renter occupied:			
	(Repeat TELEPHONE IN HOUSING UNIT)	383782	6466	2,1
HB13.	TENURE(2) BY VEHICLES AVAILABLE(2) [4]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	None	383800	6484	1,1
	1 or more	383809	6493	1,2

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
HB13.	TENURE(2) BY VEHICLES AVAILABLE(2) [4]—Con.			
	Renter occupied:			
	(Repeat VEHICLES AVAILABLE)	383818	6502	2,1
HB14.	TENURE(2) BY HOUSE HEATING FUEL(9) [18]			
	Universe: Occupied housing units with Black householder			
	Owner occupied:			
	Utility gas	383836	6520	1,1
	Bottled, tank, or LP gas	383845	6529	1,2
	Electricity	383854	6538	1,3
	Fuel oil, kerosene, etc.	383863	6547	1,4
	Coal or coke	383872	6556	1,5
	Wood	383881	6565	1,6
	Solar energy	383890	6574	1,7
	Other fuel	383899	6583	1,8
	No fuel used	383908	6592	1,9
	Renter occupied:			
	(Repeat HOUSE HEATING FUEL)	383917	6601	2,1
HB15.	MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS(31) [31]			
	Universe: Specified owner-occupied housing units with Black householder			
	With a mortgage:			
	Less than $200	383998	6682	1
	$200 to $249	384007	6691	2
	$250 to $299	384016	6700	3
	$300 to $349	384025	6709	4
	$350 to $399	384034	6718	5
	$400 to $449	384043	6727	6
	$450 to $499	384052	6736	7
	$500 to $549	384061	6745	8
	$550 to $599	384070	6754	9
	$600 to $649	384079	6763	10
	$650 to $699	384088	6772	11
	$700 to $749	384097	6781	12
	$750 to $799	384106	6790	13
	$800 to $849	384115	6799	14
	$850 to $899	384124	6808	15
	$900 to $949	384133	6817	16
	$950 to $999	384142	6826	17
	$1,000 to $1,249	384151	6835	18
	$1,250 to $1,499	384160	6844	19
	$1,500 to $1,999	384169	6853	20
	$2,000 or more	384178	6862	21
	Not mortgaged:			
	Less than $100	384187	6871	22
	$100 to $149	384196	6880	23
	$150 to $199	384205	6889	24
	$200 to $249	384214	6898	25
	$250 to $299	384223	6907	26
	$300 to $349	384232	6916	27
	$350 to $399	384241	6925	28
	$400 to $449	384250	6934	29
	$450 to $499	384259	6943	30
	$500 or more	384268	6952	31

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
HB15A.	MEDIAN SELECTED MONTHLY OWNER COSTS AND MORTGAGE STATUS(2) [2]			
	Universe: Specified owner-occupied housing units with Black householder			
	With a mortgage	384277	6961	1
	Not mortgaged	384286	6970	2
HB16.	AGGREGATE SELECTED MONTHLY OWNER COSTS(1) BY MORTGAGE STATUS(2) [2]			
	Universe: Specified owner-occupied housing units with Black householder			
	Total:			
	With a mortgage	384295	6979	1,1
	Not mortgaged	384310	6994	1,2
HB16A.	MEAN SELECTED MONTHLY OWNER COSTS(1) BY MORTGAGE STATUS(2) [2]			
	Universe: Specified owner-occupied housing units with Black householder			
	Mean selected monthly owner costs:			
	With a mortgage	384325	7009	1,1
	Not mortgaged	384334	7018	1,2
HB17.	MORTGAGE STATUS(2) BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989(10) [20]			
	Universe: Specified owner-occupied housing units with Black householder			
	With a mortgage:			
	Less than 10 percent	384343	7027	1,1
	10 to 14 percent	384352	7036	1,2
	15 to 19 percent	384361	7045	1,3
	20 to 24 percent	384370	7054	1,4
	25 to 29 percent	384379	7063	1,5
	30 to 34 percent	384388	7072	1,6
	35 to 39 percent	384397	7081	1,7
	40 to 49 percent	384406	7090	1,8
	50 percent or more	384415	7099	1,9
	Not computed	384424	7108	1,10
	Not mortgaged:			
	(Repeat SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989)	384433	7117	2,1
HB17A.	MEDIAN SELECTED MONTHLY COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989(1) BY MORTGAGE STATUS(2) [2]			
	1 implied decimal(s)			
	Universe: Specified owner-occupied housing units with Black householder			
	Median selected monthly owner costs as a percentage of household income in 1989:			
	With a mortgage	384523	7207	1,1
	Not mortgaged	384532	7216	1,2
HB18.	GROSS RENT(27) [27]			
	Universe: Specified renter-occupied housing units with a Black householder			
	With cash rent:			
	Less than $80	384541	7225	1
	$80 to $99	384550	7234	2
	$100 to $124	384559	7243	3
	$125 to $149	384568	7252	4

Table (matrix) Number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
HB18.	GROSS RENT(27) [27]—Con.			
	$150 to $174	384577	7261	5
	$175 to $199	384586	7270	6
	$200 to $224	384595	7279	7
	$225 to $249	384604	7288	8
	$250 to $274	384613	7297	9
	$275 to $299	384622	7306	10
	$300 to $324	384631	7315	11
	$325 to $349	384640	7324	12
	$350 to $374	384649	7333	13
	$375 to $399	384658	7342	14
	$400 to $424	384667	7351	15
	$425 to $449	384676	7360	16
	$450 to $474	384685	7369	17
	$475 to $499	384694	7378	18
	$500 to $549	384703	7387	19
	$550 to $599	384712	7396	20
	$600 to $649	384721	7405	21
	$650 to $699	384730	7414	22
	$700 to $749	384739	7423	23
	$750 to $999	384748	7432	24
	$1,000 to $1,999	384757	7441	25
	$2,000 or more	384766	7450	26
	No cash rent	384775	7459	27
HB19.	GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989(10) [10]			
	Universe: Specified renter-occupied housing units with a Black householder			
	Less than 10 percent	384784	7468	1
	10 to 14 percent	384793	7477	2
	15 to 19 percent	384802	7486	3
	20 to 24 percent	384811	7495	4
	25 to 29 percent	384820	7504	5
	30 to 34 percent	384829	7513	6
	35 to 39 percent	384838	7522	7
	40 to 49 percent	384847	7531	8
	50 percent or more	384856	7540	9
	Not computed	384865	7549	10
HB20.	MEALS INCLUDED IN RENT(3) [3]			
	Universe: Specified renter-occupied housing units with a Black householder			
	With cash rent:			
	Meals included in rent	384874	7558	1
	No meals included in rent	384883	7567	2
	No cash rent	384892	7576	3
HB21.	UTILITIES(2) [2]			
	Universe: Specified renter-occupied housing units with a Black householder			
	Pay extra for 1 or more utilities	384901	7585	1
	No extra payment for any utilities	384910	7594	2
	Filler	384919	7603	
	End of Record			

APPENDIX A.
Area Classifications

These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products. Not all entities and concepts are shown in any one 1990 census data product. For a description of geographic areas included in each data product, see appendix F in this documentation.

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AMERICAN INDIAN AND ALASKA NATIVE AREA

Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRC's) are corporate entities established under the Alaska Native Claims Settlement Act of 1972, Public Law 92-203, as amended by Public Law 94-204, to conduct both business and nonprofit affairs of Alaska Natives. Alaska is divided into 12 ANRC's that cover the entire State, except for the Annette Islands Reserve. The boundaries of the 12 ANRC's were established by the Department of the Interior, in cooperation with Alaska Natives. Each ANRC was designed to include, as far as practicable, Alaska Natives with a common heritage and common interests. The ANRC boundaries for the 1990 census were identified by the Bureau of

Land Management. A 13th region was established for Alaska Natives who are not permanent residents and who chose not to enroll in one of the 12 ANRC's; no census products are prepared for the 13th region. ANRC's were first identified for the 1980 census.

Each ANRC is assigned a two-digit census code ranging from 07 through 84. These census codes are assigned in alphabetical order of the ANRC's.

Alaska Native Village (ANV) Statistical Area

Alaska Native villages (ANV's) constitute tribes, bands, clans, groups, villages, communities, or associations in Alaska that are recognized pursuant to the Alaska Native Claims Settlement Act of 1972, Public Law 92-203. Because ANV's do not have legally designated boundaries, the Census Bureau has established Alaska Native village statistical areas (ANVSA's) for statistical purposes. For the 1990 census, the Census Bureau cooperated with officials of the nonprofit corporation within each participating Alaska Native Regional Corporation (ANRC), as well as other knowledgeable officials, to delineate boundaries that encompass the settled area associated with each ANV. ANVSA's are located within ANRC's and do not cross ANRC boundaries. ANVSA's for the 1990 census replace the ANV's that the Census Bureau recognized for the 1980 census.

Each ANVSA is assigned a four-digit census code ranging from 6001 through 8989. Each ANVSA also is assigned a five-digit FIPS code. Both the census and FIPS codes are assigned in alphabetical order of ANVSA's.

American Indian Reservation and Trust Land

American Indian Reservation—Federal American Indian reservations are areas with boundaries established by treaty, statute, and/or executive or court order, and recognized by the Federal Government as territory in which American Indian tribes have jurisdiction. State reservations are lands held in trust by State governments for the use and benefit of a given tribe. The reservations and their boundaries were identified for the 1990 census by the Bureau of Indian Affairs (BIA), Department of Interior (for Federal reservations), and State governments (for State reservations). The names of American Indian reservations recognized by State governments, but not by the Federal Government, are followed by "(State)." Areas composed of reservation lands that are administered jointly and/or are claimed by two reservations, as identified by the BIA, are called "joint areas," and are treated as separate American Indian reservations for census purposes.

Federal reservations may cross State boundaries, and Federal and State reservations may cross county, county subdivision, and place boundaries. For reservations that cross State boundaries, only the portion of the reservations in a given State are shown in the data products for that State; the entire reservations are shown in data products for the United States.

Each American Indian reservation is assigned a four-digit census code ranging from 0001 through 4989. These census codes are assigned in alphabetical order of American Indian reservations nationwide, except that joint areas appear at the end of the code range. Each American Indian reservation also is assigned a five-digit FIPS code; because the FIPS codes are assigned in alphabetical sequence of American Indian reservations within each State, the FIPS code is different in each State for reservations in more than one State.

Trust Land—Trust lands are property associated with a particular American Indian reservation or tribe, held in trust by the Federal Government. Trust lands may be held in trust either for a tribe (tribal trust land) or for an individual member of a tribe (individual trust land). Trust lands recognized for the 1990 census comprise all tribal trust lands and inhabited individual trust lands located outside of a reservation boundary. As with other American Indian areas, trust lands may be located in more than one State. Only the trust lands in a given State are shown in the data products for that State; all trust lands associated with a reservation or tribe are shown in data products for the United States. The Census Bureau first reported data for tribal trust lands for the 1980 census.

Trust lands are assigned a four-digit census code and a five-digit FIPS code, the same as that for the reservation with which they are associated. Trust lands not associated with a reservation are presented by tribal name, interspersed alphabetically among the reservations.

Tribal Designated Statistical Area (TDSA)

Tribal designated statistical areas (TDSA's) are areas, delineated outside Oklahoma by federally- and State-recognized tribes without a land base or associated trust lands, to provide statistical areas for which the Census Bureau tabulates data. TDSA's represent areas generally containing the American Indian population over which federally-recognized tribes have jurisdiction and areas in which State tribes provide benefits and services to their members. The names of TDSA's delineated by State-recognized tribes are followed by "(State)." The Census Bureau did not recognize TDSA's before the 1990 census.

Each TDSA is assigned a four-digit census code ranging from 9001 through 9589. The census codes are assigned in alphabetical order of TDSA's nationwide. Each TDSA also is assigned a five-digit FIPS code in alphabetical order within State.

Tribal Jurisdiction Statistical Area (TJSA)

Tribal jurisdiction statistical areas (TJSA's) are areas, delineated by federally-recognized tribes in Oklahoma without a reservation, for which the Census Bureau

tabulates data. TJSA's represent areas generally containing the American Indian population over which one or more tribal governments have jurisdiction; if tribal officials delineated adjacent TJSA's so that they include some duplicate territory, the overlap area is called a "joint use area," which is treated as a separate TJSA for census purposes.

TJSA's replace the "Historic Areas of Oklahoma (excluding urbanized areas)" shown in 1980 census data products. The Historic Areas of Oklahoma comprised the territory located within reservations that had legally established boundaries from 1900 to 1907; these reservations were dissolved during the 2- to 3-year period preceding the statehood of Oklahoma in 1907. The Historic Areas of Oklahoma (excluding urbanized areas) were identified only for the 1980 census.

Each TJSA is assigned a four-digit census code ranging from 5001 through 5989. The census codes are assigned in alphabetical order of TJSA's, except that joint areas appear at the end of the code range. Each TJSA also is assigned a five-digit FIPS code in alphabetical order within Oklahoma.

AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities and ZIP Codes). (Square kilometers may be divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure includes inland, coastal, Great Lakes, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the oceans and related large embayments (such as the Chesapeake Bay and Puget Sound), the Gulf of Mexico, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial" waters; the Great Lakes are treated as a separate water entity. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER file because, for area measurement purposes, features identified as "intermittent water" and "glacier" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a county but is not within the legal boundary of any minor civil division, or the water is associated with a State but is not within the legal boundary of any county. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements. ZIP Codes do not have specific boundaries, and therefore, also do not have area measurements.

The accuracy of any area measurement figure is limited by the inaccuracy inherent in (1) the location and shape of the various boundary features in the data base, and (2) rounding affecting the last digit in all operations that compute and/or sum the area measurements.

BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, streams, and railroad tracks, and by invisible boundaries such as city, town, township, and county limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of counties, county subdivisions, places, census tracts or block numbering areas, American Indian and Alaska Native areas, congressional districts, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which the entire United States and its possessions are block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For

example, when a city limit runs through data collection block 101, the data for the portion inside the city is tabulated in block 101A and the portion outside, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix.

BLOCK GROUP (BG)

Geographic Block Group

A geographic block group (BG) is a cluster of blocks having the same first digit of their three-digit identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of county subdivisions, places, American Indian and Alaska Native areas, urbanized areas, voting districts, and congressional districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units.

Tabulation Block Group

In the data tabulations, a geographic BG may be split to present data for every unique combination of county subdivision, place, American Indian and Alaska Native area, urbanized area, voting district, urban/rural and congressional district shown in the data product; for example, if BG 3 is partly in a city and partly outside the city, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data nationwide in the 1990 census, in all block-numbered areas in the 1980 census, and in Tape Address Register (TAR) areas in the 1970 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of the United States for the 1970 and 1980 censuses, and in all areas for pre-1970 censuses.

BOUNDARY CHANGES

The boundaries of some counties, county subdivisions, American Indian and Alaska Native areas, and many incorporated places, changed between those reported for the 1980 census and January 1, 1990. Boundary changes to legal entities result from:

1. Annexations to or detachments from legally established governmental units.
2. Mergers or consolidations of two or more governmental units.
3. Establishment of new governmental units.
4. Disincorporations or disorganizations of existing governmental units.
5. Changes in treaties and Executive Orders.

The historical counts shown for counties, county subdivisions, and places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Information on boundary changes reported between the 1980 and 1990 censuses for counties, county subdivisions, and incorporated places is presented in the "User Notes" section of the technical documentation of Summary Tape Files 1 and 3, and in the 1990 CPH-2, *Population and Housing Unit Counts* printed reports. For information on boundary changes for such areas in the decade preceding other decennial censuses, see the *Number of Inhabitants* reports for each census. Boundary changes are not reported for some areas, such as census designated places and block groups.

CENSUS REGION AND CENSUS DIVISION

Census Division

Census divisions are groupings of States that are subdivisions of the four census regions. There are nine divisions, which the Census Bureau adopted in 1910 for the presentation of data. The regions, divisions, and their constituent States are:

Northeast Region

New England Division:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic Division:

New York, New Jersey, Pennsylvania

Midwest Region

East North Central Division:

Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central Division:

Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Region

South Atlantic Division:

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central Division:

Kentucky, Tennessee, Alabama, Mississippi

West South Central Division:

Arkansas, Louisiana, Oklahoma, Texas

West Region

Mountain Division:

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific Division:

Washington, Oregon, California, Alaska, Hawaii

Census Region

Census regions are groupings of States that subdivide the United States for the presentation of data. There are four regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Prior to 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940's, there were three regions—North, South, and West.

CENSUS TRACT AND BLOCK NUMBERING AREA

Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross county boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a county (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify BNA's that either were revised or were created during the 1990 census data collection activities. Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a county. Census tracts are delineated for all metropolitan areas (MA's) and other densely populated counties by local census statistical areas committees following Census Bureau guidelines (more than 3,000 census tracts have been established in 221 counties outside MA's). Six States (California, Connecticut, Delaware, Hawaii, New Jersey, and Rhode Island) and the District of Columbia are covered entirely by census tracts. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

Census tracts are identified by a four-digit basic number and may have a two-digit suffix; for example, 6059.02. The decimal point separating the four-digit basic tract number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many census tracts do not have a suffix; in such cases, the suffix field is left blank in all data products. Leading zeros in a census tract number (for example, 002502) are shown only on machine-readable files.

Census tract numbers range from 0001 through 9499.99 and are unique within a county (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

CONGRESSIONAL DISTRICT (CD)

Congressional districts (CD's) are the 435 areas from which persons are elected to the U.S. House of Representatives. After the apportionment of congressional

seats among the States, based on census population counts, each State is responsible for establishing CD's for the purpose of electing representatives. Each CD is to be as equal in population to all other CD's in the State as practicable, based on the decennial census counts.

The CD's that were in effect on January 1, 1990 were those of the 101st Congress. Data on the 101st Congress appear in an early 1990 census data product (Summary Tape File 1A). The CD's of the 101st Congress are the same as those in effect for the 102nd Congress. CD's of the 103rd Congress, reflecting redistricting based on the 1990 census, are summarized in later 1990 data products (STF's 1D and 3D, and 1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress* printed reports).

COUNTY

The primary political divisions of most States are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, which has no counties, the county equivalents are the organized "boroughs" and the "census areas" that are delineated for statistical purposes by the State of Alaska and the Census Bureau. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities that are independent of any county organization and thus constitute primary divisions of their States. These cities are known as "independent cities" and are treated as equivalent to counties for statistical purposes. That part of Yellowstone National Park in Montana is treated as a county equivalent. The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for statistical purposes.

Each county and county equivalent is assigned a three-digit FIPS code that is unique within State. These codes are assigned in alphabetical order of county or county equivalent within State, except for the independent cities, which follow the listing of counties.

COUNTY SUBDIVISION

County subdivisions are the primary subdivisions of counties and their equivalents for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories.

Each county subdivision is assigned a three-digit census code in alphabetical order within county and a five-digit FIPS code in alphabetical order within State.

Census County Division (CCD)

Census county divisions (CCD's) are subdivisions of a county that were delineated by the Census Bureau, in cooperation with State officials and local census statistical areas committees, for statistical purposes. CCD's were established in 21 States where there are no legally established minor civil divisions (MCD's), where the MCD's do not have governmental or administrative purposes, where the boundaries of the MCD's change frequently, and/ or where the MCD's are not generally known to the public. CCD's have no legal functions, and are not governmental units.

The boundaries of CCD's usually are delineated to follow visible features, and in most cases coincide with census tract or block numbering area boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCD's have been established in the following 21 States: Alabama, Arizona, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Kentucky, Montana, Nevada, New Mexico, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Washington, and Wyoming. For the 1980 census, the county subdivisions recognized for Nevada were MCD's.

Census Subarea (Alaska)

Census subareas are statistical subdivisions of boroughs and census areas (county equivalents) in Alaska. Census subareas were delineated cooperatively by the State of Alaska and the Census Bureau. The census subareas, identified first in 1980, replaced the various types of subdivisions used in the 1970 census.

Minor Civil Division (MCD)

Minor civil divisions (MCD's) are the primary political or administrative divisions of a county. MCD's represent many different kinds of legal entities with a wide variety of governmental and/ or administrative functions. MCD's are variously designated as American Indian reservations, assessment districts, boroughs, election districts, gores, grants, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisors' districts, towns, and townships. In some States, all or some incorporated places are not located in any MCD and thus serve as MCD's in their own right. In other States, incorporated places are subordinate to (part of) the MCD's in which they are located, or the pattern is mixed—some incorporated places are independent of MCD's and others are subordinate to one or more MCD's.

The Census Bureau recognizes MCD's in the following 28 States: Arkansas, Connecticut, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin. The District of Columbia has no primary divisions, and the entire area is considered equivalent to an MCD for statistical purposes.

The MCD's in 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments. The Census Bureau presents data for these MCD's in all data products in which it provides data for places.

Unorganized Territory (unorg.)

In nine States (Arkansas, Iowa, Kansas, Louisiana, Maine, Minnesota, North Carolina, North Dakota, and South Dakota), some counties contain territory that is not included in an MCD recognized by the Census Bureau. Each separate area of unorganized territory in these States is recognized as one or more separate county subdivisions for census purposes. Each unorganized territory is given a descriptive name, followed by the designation "unorg."

GEOGRAPHIC CODE

Geographic codes are shown primarily on machine-readable data products, such as computer tape and compact disc-read only memory (CD-ROM), but also appear on other products such as microfiche; they also are shown on some census maps. Codes are identified as "census codes" only if there is also a Federal Information Processing Standards (FIPS) code for the same geographic entity. A code that is not identified as either "census" or "FIPS" is usually a census code for which there is no FIPS equivalent, or for which the Census Bureau does not use the FIPS code. The exceptions, which use only the FIPS code in census products, are county, congressional district, and metropolitan area (that is, metropolitan statistical area, consolidated metropolitan statistical area, and primary metropolitan statistical area).

Census Code

Census codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, census division, census region, county subdivision, place, State, urbanized area, and voting district. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme;* in the data dictionary portion of the technical documentation for summary tape files and CD-ROM's.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, congressional district, county, county subdivision, metropolitan area, place, and State. The structure, format, and meaning of FIPS codes used in the census are shown in the 1990 census *Geographic Identification Code Scheme;* in the data dictionary portion of the technical documentation for summary tape files and CD-ROM's.

The objective of the FIPS codes is to improve the use of data resources of the Federal Government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. More information about FIPS and FIPS code documentation is available from the National Technical Information Service, Springfield, VA 22161.

United States Postal Service (USPS) Code

United States Postal Service (USPS) codes for States are used in all 1990 data products. The codes are two-character alphabetic abbreviations. These codes are the same as the FIPS two-character alphabetic abbreviations.

GEOGRAPHIC PRESENTATION

Hierarchical Presentation

A hierarchical geographic presentation shows the geographic entities in a superior/subordinate structure in census products. This structure is derived from the legal, administrative, or areal relationships of the entities. The hierarchical structure is depicted in report tables by means of indentation, and is explained for machine-readable media in the discussion of file structure in the geographic coverage portion of the abstract in the technical documentation. An example of hierarchical presentation is the "standard census geographic hierarchy": block, within block group, within census tract or block numbering area, within place, within county subdivision, within county, within State, within division, within region, within the United States. Graphically, this is shown as:

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United States
  Region
    Division
      State
        County
          County subdivision
            Place (or part)
              Census tract/block numbering area
                (or part)
                Block group (or part)
                  Block
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Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/

block numbering area, or block group. An example of a series of inventory presentations is: State, followed by all the counties in that State, followed by all the places in that State. Graphically, this is shown as:

State

County "A"
County "B"
County "C"

Place "X"
Place "Y"
Place "Z"

HISTORICAL COUNTS

Historical counts for total population and total housing units are shown in the 1990 CPH-2, *Population and Housing Unit Counts* report series. As in past censuses, the general rule for presenting historical data for States, counties, county subdivisions, and places is to show historical counts only for single, continually existing entities. Stated another way, if an entity existed for both the current and preceding censuses, the tables show counts for the preceding censuses. Included in this category are entities of the same type (county, county subdivision, place) even if they had changed their names. Also included are entities that merged, but only if the new entity retained the name of one of the merged entities. The historical counts shown are for each entity as it was bounded at each census.

In cases where an entity was formed since a preceding census, such as a newly incorporated place or a newly organized township, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional county or county subdivision through annexation or other revision of boundaries since the preceding census.

In a few cases, changes in the boundaries of county subdivisions caused a place to be split into two or more parts, or to be split differently than in the preceding census. If historical counts for the parts of the place as currently split did not appear in a preceding census, "(NA)" is shown for the place in each county subdivision; however, the historical population and housing unit counts of the place appear in tables that show the entire place. For counties, county subdivisions, and places formed since January 1, 1980, 1980 census population and housing unit counts in the 1990 territory are reported in the geographic change notes included in the "User Notes" text section of 1990 CPH-2, *Population and Housing Unit Counts*, and in the technical documentation of Summary Tape Files 1 and 3.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit Counts*, 1980 counts are shown for aggregations of individual areas, such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point represents the approximate geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. If the internal point for a block falls in a water area, it is relocated to a land area within the block. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

METROPOLITAN AREA (MA)

The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MA's are defined around two or more nuclei.

The MA classification is a statistical standard, developed for use by Federal agencies in the production, analysis, and publication of data on MA's. The MA's are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by the interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MA's nationwide.

Each MA must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA comprises one or more central counties. An MA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. In New England, MA's are composed of cities and towns rather than whole counties.

The territory, population, and housing units in MA's are referred to as "metropolitan." The metropolitan category is subdivided into "inside central city" and "outside central city." The territory, population, and housing units located outside MA's are referred to as "nonmetropolitan." The metropolitan and nonmetropolitan classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

To meet the needs of various users, the standards provide for a flexible structure of metropolitan definitions that classify an MA either as a metropolitan statistical area (MSA) or as a consolidated metropolitan statistical area (CMSA) that is divided into primary metropolitan statistical areas (PMSA's). Documentation of the MA standards and how they are applied is available from the Secretary, Federal Executive Committee on Metropolitan Areas, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Central City

In each MSA and CMSA, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. A few PMSA's do not have central cities. The largest central city and, in some cases, up to two additional central cities are included in the title of the MA; there also are central cities that are not included in an MA title. An MA central city does not include any part of that city that extends outside the MA boundary.

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

If an area that qualifies as an MA has more than one million persons, primary metropolitan statistical areas (PMSA's) may be defined within it. PMSA's consist of a large urbanized county or cluster of counties that demonstrates very strong internal economic and social links, in addition to close ties to other portions of the larger area. When PMSA's are established, the larger area of which they are component parts is designated a consolidated metropolitan statistical area (CMSA).

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSA's) are relatively freestanding MA's and are not closely associated with other MA's. These areas typically are surrounded by nonmetropolitan counties.

Metropolitan Area Title and Code

The title of an MSA contains the name of its largest central city and up to two additional city names, provided that the additional places meet specified levels of population, employment, and commuting. Generally, a city with a population of 250,000 or more is in the title, regardless of other criteria.

The title of a PMSA may contain up to three place names, as determined above, or up to three county names, sequenced in order of population. A CMSA title also may include up to three names, the first of which generally is the most populous central city in the area. The second name may be the first city or county name in the most populous remaining PMSA; the third name may be the first city or county name in the next most populous PMSA. A regional designation may be substituted for the second and/ or third names in a CMSA title if such a designation is supported by local opinion and is deemed to be unambiguous and suitable by the Office of Management and Budget.

The titles for all MA's also contain the name of each State in which the area is located. Each metropolitan area is assigned a four-digit FIPS code, in alphabetical order nationwide. If the fourth digit of the code is a "2," it identifies a CMSA. Additionally, there is a separate set of two-digit codes for CMSA's, also assigned alphabetically.

OUTLYING AREAS OF THE UNITED STATES

The Census Bureau treats the outlying areas as the statistical equivalents of States for the 1990 census. The outlying areas are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands). Geographic definitions specific to each outlying area are shown in appendix A of the text in the data products for each area.

PLACE

Places, for the reporting of decennial census data, include census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within State. Each place is also assigned a five-digit FIPS code that is unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State. Consolidated cities (see below) are assigned a one-character alphabetical census code that is unique nationwide and a five-digit FIPS code that is unique within State.

Census Designated Place (CDP)

Census designated places (CDP's) are delineated for the decennial census as the statistical counterparts of incorporated places. CDP's comprise densely settled concentrations of population that are identifiable by name, but are not legally incorporated places. Their boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP

boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

Beginning with the 1950 census, the Census Bureau, in cooperation with State agencies and local census statistical areas committees, has identified and delineated boundaries for CDP's. In the 1990 census, the name of each such place is followed by "CDP." In the 1980 census, "(CDP)" was used; in 1970, 1960, and 1950 censuses, these places were identified by "(U)," meaning "unincorporated place."

To qualify as a CDP for the 1990 census, an unincorporated community must have met the following criteria:

1. In all States except Alaska and Hawaii, the Census Bureau uses three population size criteria to designate a CDP. These criteria are:
   a. 1,000 or more persons if outside the boundaries of an urbanized area (UA) delineated for the 1980 census or a subsequent special census.
   b. 2,500 or more persons if inside the boundaries of a UA delineated for the 1980 census or a subsequent special census.
   c. 250 or more persons if outside the boundaries of a UA delineated for the 1980 census or a subsequent special census, and within the official boundaries of an American Indian reservation recognized for the 1990 census.
2. In Alaska, 25 or more persons if outside a UA, and 2,500 or more persons if inside a UA delineated for the 1980 census or a subsequent special census.
3. In Hawaii, 300 or more persons, regardless of whether the community is inside or outside a UA.

For the 1990 census, CDP's qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few CDP's may have final population counts lower than the minimums shown above.

Hawaii is the only State with no incorporated places recognized by the Bureau of the Census. All places shown for Hawaii in the data products are CDP's. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

Consolidated City

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a "consolidated city."

The data presentation for consolidated cities varies depending upon the geographic presentation. In hierarchical presentations, consolidated cities are not shown. These presentations include the semi-independent places and the "consolidated city (remainder)." Where the consolidated city is coextensive with a county or county subdivision, the data shown for those areas in hierarchical presentations are equivalent to those for the consolidated government.

For inventory geographic presentations, the consolidated city appears at the end of the listing of places. The data for the consolidated city include places that are part of the consolidated city. The "consolidated city (remainder)" is the portion of the consolidated government minus the semi-independent places, and is shown in alphabetical sequence with other places.

In summary presentations by size of place, the consolidated city is not included. The places semi-independent of consolidated cities are categorized by their size, as is the "consolidated city (remainder)."

Each consolidated city is assigned a one-character alphabetic census code. Each consolidated city also is assigned a five-digit FIPS code that is unique within State. The semi-independent places and the "consolidated city (remainder)" are assigned a four-digit census code and a five-digit FIPS place code that are unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State.

Incorporated Place

Incorporated places recognized in 1990 census data products are those reported to the Census Bureau as legally in existence on January 1, 1990 under the laws of their respective States as cities, boroughs, towns, and villages, with the following exceptions: the towns in the New England States, New York, and Wisconsin, and the boroughs in New York are recognized as minor civil divisions for census purposes; the boroughs in Alaska are county equivalents.

POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, United States, State, county, place) by its land area measured in square kilometers or square miles. Density is expressed as both

"persons (or housing units) per square kilometer" and "persons (or housing units) per square mile" of land area in 1990 census printed reports.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The four census regions, nine census divisions, and their component States are shown under "CENSUS REGION AND CENSUS DIVISION" in this appendix.

The Census Bureau treats the outlying areas as State equivalents for the 1990 census. The outlying areas are American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands of the United States. Geographic definitions specific to each outlying area are shown in appendix A in the data products for each area.

Each State and equivalent is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent area also is assigned a two-digit census code. This code is assigned on the basis of the geographic sequence of each State within each census division; the first digit of the code is the code for the respective division. Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific are assigned "0" as the division code. Each State and equivalent area also is assigned the two-letter FIPS/ United States Postal Service (USPS) code.

In 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), the minor civil divisions also serve as general-purpose local governments. The Census Bureau presents data for these minor civil divisions in all data products in which it provides data for places.

TIGER

TIGER is an acronym for the new digital (computer-readable) geographic data base that automates the mapping and related geographic activities required to support the Census Bureau's census and survey programs. The Census Bureau developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System to automate the geographic support processes needed to meet the major geographic needs of the 1990 census: producing the cartographic products to support data collection and map publication, providing the geographic structure for tabulation and publication of the collected data, assigning residential and employer addresses to their geographic location and relating those locations to the Census Bureau's geographic units, and so forth. The content of the TIGER data base is made available to the public through a variety of "TIGER Extract" files that may be obtained from the Data User Services Division, U.S. Bureau of the Census, Washington, DC 20233.

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats the outlying areas as statistical equivalents of States for the 1990 census. The outlying areas include American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands.

URBAN AND RURAL

The Census Bureau defines "urban" for the 1990 census as comprising all territory, population, and housing units in urbanized areas and in places of 2,500 or more persons outside urbanized areas. More specifically, "urban" consists of territory, persons, and housing units in:

1. Places of 2,500 or more persons incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the six New England States, New York, and Wisconsin), but excluding the rural portions of "extended cities."
2. Census designated places of 2,500 or more persons.
3. Other territory, incorporated or unincorporated, included in urbanized areas.

Territory, population, and housing units not classified as urban constitute "rural." In the 100-percent data products, "rural" is divided into "places of less than 2,500" and "not in places." The "not in places" category comprises "rural" outside incorporated and census designated places and the rural portions of extended cities. In many data products, the term "other rural" is used; "other rural" is a residual category specific to the classification of the rural in each data product.

In the sample data products, rural population and housing units are subdivided into "rural farm" and "rural nonfarm." "Rural farm" comprises all rural households and housing units on farms (places from which $1,000 or more of agricultural products were sold in 1989); "rural nonfarm" comprises the remaining rural.

The urban and rural classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in incorporated places of 2,500 or more persons, and in areas (usually minor civil divisions) classified as urban under special

rules relating to population size and density. The definition of urban that restricted itself to incorporated places having 2,500 or more persons excluded many large, densely settled areas merely because they were not incorporated. Prior to the 1950 census, the Census Bureau attempted to avoid some of the more obvious omissions by classifying selected areas as "urban under special rules." Even with these rules, however, many large, closely built-up areas were excluded from the urban category.

To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area and delineated boundaries for unincorporated places (now, census designated places) for the 1950 census. Urban was defined as territory, persons, and housing units in urbanized areas and, outside urbanized areas, in all places, incorporated or unincorporated, that had 2,500 or more persons. With the following three exceptions, the 1950 census definition of urban has continued substantially unchanged. First, in the 1960 census (but not in the 1970, 1980, or 1990 censuses), certain towns in the New England States, townships in New Jersey and Pennsylvania, and Arlington County, Virginia, were designated as urban. However, most of these "special rule" areas would have been classified as urban anyway because they were included in an urbanized area or in an unincorporated place of 2,500 or more persons. Second, "extended cities" were identified for the 1970, 1980, and 1990 censuses. Extended cities primarily affect the figures for urban and rural territory (area), but have very little effect on the urban and rural population and housing units at the national and State levels—although for some individual counties and urbanized areas, the effects have been more evident. Third, changes since the 1970 census in the criteria for defining urbanized areas have permitted these areas to be defined around smaller centers.

Documentation of the urbanized area and extended city criteria is available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Extended City

Since the 1960 census, there has been a trend in some States toward the extension of city boundaries to include territory that is essentially rural in character. The classification of all the population and living quarters of such places as urban would include in the urban designation territory, persons, and housing units whose environment is primarily rural. For the 1970, 1980, and 1990 censuses, the Census Bureau identified as rural such territory and its population and housing units for each extended city whose closely settled area was located in an urbanized area. For the 1990 census, this classification also has been applied to certain places outside urbanized areas.

In summary presentations by size of place, the urban portion of an extended city is classified by the population of the entire place; the rural portion is included in "other rural."

URBANIZED AREA (UA)

The Census Bureau delineates urbanized areas (UA's) to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. A UA comprises one or more places ("central place") and the adjacent densely settled surrounding territory ("urban fringe") that together have a minimum of 50,000 persons. The urban fringe generally consists of contiguous territory having a density of least 1,000 persons per square mile. The urban fringe also includes outlying territory of such density if it was connected to the core of the contiguous area by road and is within 1 1/2 road miles of that core, or within 5 road miles of the core but separated by water or other undevelopable territory. Other territory with a population density of fewer than 1,000 people per square mile is included in the urban fringe if it eliminates an enclave or closes an indentation in the boundary of the urbanized area. The population density is determined by (1) outside of a place, one or more contiguous census blocks with a population density of at least 1,000 persons per square mile or (2) inclusion of a place containing census blocks that have at least 50 percent of the population of the place and a density of at least 1,000 persons per square mile. The complete criteria are available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Urbanized Area Central Place

One or more central places function as the dominant centers of each UA. The identification of a UA central place permits the comparison of this dominant center with the remaining territory in the UA. There is no limit on the number of central places, and not all central places are necessarily included in the UA title. UA central places include:

1. Each place entirely (or partially, if the place is an extended city) within the UA that is a central city of a metropolitan area (MA).
2. If the UA does not contain an MA central city or is located outside of an MA, the central place(s) is determined by population size.

Urbanized Area Title and Code

The title of a UA identifies those places that are most important within the UA; it links the UA to the encompassing MA, where appropriate. If a single MA includes most of the UA, the title and code of the UA generally

are the same as the title and code of the MA. If the UA is not mostly included in a single MA, if it does not include any place that is a central city of the encompassing MA, or if it is not located in an MA, the Census Bureau uses the population size of the included places, with a preference for incorporated places, to determine the UA title. The name of each State in which the UA is located also is in each UA title.

The numeric code used to identify each UA is the same as the code for the mostly encompassing MA (including CMSA and PMSA). If MA title cities represent multiple UA's, or the UA title city does not correspond to the first name of an MA title, the Census Bureau assigns a code based on the alphabetical sequence of the UA title in relationship to the other UA and MA titles.

VOTING DISTRICT (VTD)

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, wards, legislative districts) established by State and local governments for purposes of elections. For census purposes, each State participating in Phase 2 of the 1990 Census Redistricting Data Program outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, a State may have had to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census. In the 1980 census, VTD's were referred to as "election precincts."

Each VTD is assigned a four-character alphanumeric code that is unique within each county. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau reports data for areas coded "ZZZZ."

ZIP CODE®

ZIP Codes are administrative units established by the United States Postal Service (USPS) for the distribution of mail. ZIP Codes serve addresses for the most efficient delivery of mail, and therefore generally do not respect political or census statistical area boundaries. ZIP Codes usually do not have clearly identifiable boundaries, often serve a continually changing area, are changed periodically to meet postal requirements, and do not cover all the land area of the United States. ZIP Codes are identified by five-digit codes assigned by the USPS. The first three digits identify a major city or sectional distribution center, and the last two digits generally signify a specific post office's delivery area or point. For the 1990 census, ZIP Code data are tabulated for the five-digit codes in STF 3B.

APPENDIX B.
Definitions of Subject Characteristics

These definitions are for all subject characteristics that the Census Bureau will include in its standard 1990 census data products. However, not all concepts may be applicable for this file. For more information about the various 1990 census data products, see appendix F in this documentation.

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POPULATION CHARACTERISTICS

AGE

The data on age were derived from answers to questionnaire item 5, which was asked of all persons. The age classification is based on the age of the person in complete years as of April 1, 1990. The age response in question 5a was used normally to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year-of-birth response in question 5b.

Data on age are used to determine the applicability of other questions for a person and to classify other characteristics in census tabulations. Age data are needed to interpret most social and economic characteristics used to plan and examine many programs and policies. Therefore, age is tabulated by single years of age and by many different groupings, such as 5-year age groups.

Some tabulations are shown by the age of the householder. These data were derived from the age responses for each householder. (For more information on householder, see the discussion under "Household Type and Relationship.")

Median Age—This measure divides the age distribution into two equal parts: one-half of the cases falling below the median value and one-half above the value. Generally, median age is computed on the basis of more detailed age intervals than are shown in some census publications; thus, a median based on a less detailed distribution may differ slightly from a corresponding median for the same population based on a more detailed distribution. (For more information on medians, see the discussion under "Derived Measures.")

Limitation of the Data—Counts in 1970 and 1980 for persons 100 years old and over were substantially overstated. Improvements were made in the questionnaire design, in the allocation procedures, and to the respondent instruction guide to attempt to minimize this problem for the 1990 census.

Review of detailed 1990 census information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round their age up if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in complete months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the section below that discusses "Comparability.")

Comparability—Age data have been collected in every census. For the first time since 1950, the 1990 data are not available by quarter year of age. This change was made so that coded information could be obtained for both age and year of birth. In each census since 1940, the age of a person was assigned when it was not reported. In censuses before 1940, with the exception of 1880, persons of unknown age were shown as a separate category. Since 1960, assignment of unknown age has been performed by a general procedure described as "imputation." The specific procedures for imputing age have been different in each census. (For more information on imputation, see Appendix C, Accuracy of the Data.)

ANCESTRY

The data on ancestry were derived from answers to questionnaire item 13, which was asked of a sample of persons. The question was based on self-identification; the data on ancestry represent self-classification by people according to the ancestry group(s) with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," or heritage or the place of birth of the person or the person's parents or ancestors before their arrival in the United States. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania Dutch" or "Cajun" evolved in the United States.

The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity. For example, a response of "Irish" might reflect total involvement in an "Irish" community or only a memory of ancestors several generations removed from the individual.

The Census Bureau coded the responses through an automated review, edit, and coding operation. The open-ended write-in ancestry item was coded by subject-matter specialists into a numeric representation using a code list containing over 1,000 categories. The 1990 code list reflects the results of the Census Bureau's own research and consultations with many ethnic experts. Many decisions were made to determine the classification of responses. These decisions affected the grouping of the tabulated data. For example, the "Assyrian" category includes both responses of "Assyrian" and "Chaldean."

The ancestry question allowed respondents to report one or more ancestry groups. While a large number of respondents listed a single ancestry, the majority of answers included more than one ethnic entry. Generally, only the first two responses reported were coded in 1990. If a response was in terms of a dual ancestry, for example, Irish-English, the person was assigned two codes, in this case one for Irish and another for English.

However, in certain cases, multiple responses such as "French Canadian," "Scotch-Irish," "Greek Cypriote," and "Black Dutch" were assigned a single code reflecting their status as unique groups. If a person reported one of these unique groups in addition to another group, for example, "Scotch-Irish English," resulting in three terms, that person received one code for the unique group ("Scotch-Irish") and another one for the remaining group ("English"). If a person reported "English Irish French," only English and Irish were coded. Certain combinations of ancestries where the ancestry group is a part of another, such as "German-Bavarian," the responses were coded as a single ancestry using the smaller group ("Bavarian"). Also, responses such as "Polish-American" or "Italian-American" were coded and tabulated as a single entry ("Polish" or "Italian").

The Census Bureau accepted "American" as a unique ethnicity if it was given alone, with an ambiguous response, or with State names. If the respondent listed any other ethnic identity such as "Italian American," generally the "American" portion of the response was not coded. However, distinct groups such as "American Indian," "Mexican American," and "African American" were coded and identified separately because they represented groups who considered themselves different from those who reported as "Indian," "Mexican," or "African," respectively.

In all tabulations, when respondents provided an unacceptable ethnic identity (for example, an uncodeable or unintelligible response such as "multi-national," "adopted," or "I have no idea"), the answer was included in "Ancestry not reported."

The tabulations on ancestry are presented using two types of data presentations—one used total persons as the base, and the other used total responses as the base. The following are categories shown in the two data presentations:

Presentation Based on Persons:

Single Ancestries Reported—Includes all persons who reported only one ethnic group. Included in this category are persons with multiple-term responses such as "Scotch-Irish" who are assigned a single code.

Multiple Ancestries Reported—Includes all persons who reported more than one group and were assigned two ancestry codes.

Ancestry Unclassified—Includes all persons who provided a response that could not be assigned an ancestry code because they provided nonsensical entries or religious responses.

Presentations Based on Responses:

Total Ancestries Reported—Includes the total number of ancestries reported and coded. If a person reported a multiple ancestry such as "French Danish," that response was counted twice in the tabulations—once in the "French" category and again in the "Danish" category. Thus, the sum of the counts in this type of presentation is not the total population but the total of all responses.

First Ancestry Reported—Includes the first response of all persons who reported at least one codeable entry. For example, in this category, the count for "Danish" would include all those who reported only Danish and those who reported Danish first and then some other group.

Second Ancestry Reported—Includes the second response of all persons who reported a multiple ancestry. Thus, the count for "Danish" in this category includes all persons who reported Danish as the second response, regardless of the first response provided.

The Census Bureau identified hundreds of ethnic groups in the 1990 census. However, it was impossible to show information for every group in all census tabulations because of space constraints. Publications such as the 1990 CP-2, *Social and Economic Characteristics* and the 1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas* reports show a limited number of groups based on the number reported and the advice received from experts. A more complete distribution of groups is

presented in the 1990 Summary Tape File 4, *Supplementary Reports,* and a special subject report on ancestry. In addition, groups identified specifically in the questions on race and Hispanic origin (for example, Japanese, Laotian, Mexican, Cuban, and Spaniard), in general, are not shown separately in ancestry tabulations.

Limitation of the Data—Although some experts consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. The Bureau of the Census is prohibited from collecting information on religion. Thus, if a religion was given as an answer to the ancestry question, it was coded as an "Other" response.

Comparability—A question on ancestry was first asked in the 1980 census. Although there were no comparable data prior to the 1980 census, related information on ethnicity was collected through questions on parental birthplace, own birthplace, and language which were included in previous censuses. Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

In 1990, respondents were allowed to report more than one ancestry group; however, only the first two ancestry groups identified were coded. In 1980, the Census Bureau attempted to code a third ancestry for selected triple-ancestry responses.

New categories such as "Arab" and "West Indian" were added to the 1990 question to meet important data needs. The "West Indian" category excluded "Hispanic" groups such as "Puerto Rican" and "Cuban" that were identified primarily through the question on Hispanic origin. In 1990, the ancestry group, "American" is recognized and tabulated as a unique ethnicity. In 1980, "American" was tabulated but included under the category "Ancestry not specified."

A major improvement in the 1990 census was the use of an automated coding system for ancestry responses. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses.

CITIZENSHIP

The data on citizenship were derived from answers to questionnaire item 9, which was asked of a sample of persons.

Citizen—Persons who indicated that they were native-born and foreign-born persons who indicated that they have become naturalized. (For more information on native and foreign born, see the discussion under "Place of Birth.")

There are four categories of citizenship: (1) born in the United States, (2) born in Puerto Rico, Guam, the Virgin Islands of the United States, or the Commonwealth of the Northern Mariana Islands, (3) born abroad of American parents, and (4) citizen by naturalization.

Naturalized Citizen—Foreign-born persons who had completed the naturalization process at the time of the census and upon whom the rights of citizenship had been conferred.

Not a Citizen—Foreign-born persons who were not citizens, including persons who had begun but not completed the naturalization process at the time of the census.

Limitation of the Data—Evaluation studies completed after previous censuses indicated that some persons may have reported themselves as citizens although they had not yet attained the status.

Comparability—Similar questions on citizenship were asked in the censuses of 1820, 1830, 1870, 1890 through 1950, 1970, and 1980. The 1980 question was asked of a sample of the foreign-born population. In 1990, both native and foreign-born persons who received the long-form questionnaire were asked to respond to the citizenship question.

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12, which was asked of a sample of persons. Data are tabulated as attainment for persons 15 years old and over. Persons are classified according to the highest level of school completed or the highest degree received. The question included instructions to report the level of the previous grade attended or the highest degree received for persons currently enrolled in school. The question included response categories which allowed persons to report completing the 12th grade without receiving a high school diploma, and which instructed respondents to report as "high school graduate(s)"—persons who received either a high school diploma or the equivalent, for example, passed the Test of General Educational Development (G.E.D.), and did not attend college. (On the Military Census Report questionnaire, the lowest response category was "Less than 9th grade.")

Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that schooling completed in foreign or ungraded school systems should be reported as the equivalent level of schooling in the regular American system; that vocational certificates or diplomas from vocational, trade, or business schools or colleges were not to be reported unless they were

college level degrees; and that honorary degrees were not to be reported. The instructions gave "medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology" as examples of professional school degrees, and specifically excluded "barber school, cosmetology, or other training for a specific trade" from the professional school category. The order in which they were listed suggested that doctorate degrees were "higher" than professional school degrees, which were "higher" than master's degrees.

Persons who did not report educational attainment were assigned the attainment of a person of the same age, race or Spanish origin, and sex who resided in the same or a nearby area. Persons who filled more than one circle were edited to the highest level or degree reported.

High School Graduate or Higher—Includes persons whose highest degree was a high school diploma or its equivalent, persons who attended college or professional school, and persons who received a college, university, or professional degree. Persons who reported completing the 12th grade but not receiving a diploma are not included.

Not Enrolled, Not High School Graduate—Includes persons of compulsory school attendance age or above who were not enrolled in school and were not high school graduates; these persons may be taken to be "high school dropouts." There is no restriction on when they "dropped out" of school, and they may have never attended high school.

In prior censuses, "Median school years completed" was used as a summary measure of educational attainment. In 1990, the median can only be calculated for groups of which less than half the members have attended college. "Percent high school graduate or higher" and "Percent bachelor's degree or higher" are summary measures which can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups. To make comparisons over time, "Percent high school graduate or higher" can be calculated and "Percent bachelor's degree or higher" can be approximated with data from previous censuses.

Comparability—From 1840 to 1930, the census measured educational attainment by means of a basic literacy question. In 1940, a single question was asked on highest grade of school completed. In the censuses of 1950 through 1980, a two-part question asking highest grade of school attended and whether that grade was finished was used to construct highest grade or year of school completed. For persons who have not attended college, the response categories in the 1990 educational attainment question should produce data which are comparable to data on highest grade completed from earlier censuses.

The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of the number of years of college completed. For instance, it was not clear whether "completed the fourth year of college," "completed the senior year of college," and "college graduate" were synonymous. Research conducted shortly before the census suggests that these terms were more distinct in 1990 than in earlier decades, and this change may have threatened the ability to estimate the number of "college graduates" from the number of persons reported as having completed the fourth or a higher year of college. It was even more difficult to make inferences about post-baccalaureate degrees and "Associate" degrees from highest year of college completed. Thus, comparisons of post-secondary educational attainment in this and earlier censuses should be made with great caution.

In the 1960 and subsequent censuses, persons for whom educational attainment was not reported were assigned the same attainment level as a similar person whose residence was in the same or a nearby area. In the 1940 and 1950 censuses, persons for whom educational attainment was not reported were not allocated.

EMPLOYMENT STATUS

The data on employment status were derived from answers to questionnaire items 21, 25, and 26, which were asked of a sample of persons. The series of questions on employment status was asked of all persons 15 years old and over and was designed to identify, in this sequence: (1) persons who worked at any time during the reference week; (2) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (3) persons on layoff; and (4) persons who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week. (For more information, see the discussion under "Reference Week.")

The employment status data shown in this and other 1990 census tabulations relate to persons 16 years old and over. Some tabulations showing employment status, however, include persons 15 years old. By definition, these persons are classified as "Not in Labor Force.". In the 1940, 1950, and 1960 censuses, employment status data were presented for persons 14 years old and over. The change in the universe was made in 1970 to agree with the official measurement of the labor force as revised in January 1967 by the U.S. Department of Labor. The 1970 census was the last to show employment data for persons 14 and 15 years old.

Employed—All civilians 16 years old and over who were either (1) "at work"—those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were "with a job but not at work"—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are persons on active duty in the United States Armed Forces.

Unemployed—All civilians 16 years old and over are classified as unemployed if they (1) were neither "at work" nor "with a job but not at work" during the reference week, and (2) were looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off. Examples of job seeking activities are:

- Registering at a public or private employment office
- Meeting with prospective employers
- Investigating possibilities for starting a professional practice or opening a business
- Placing or answering advertisements
- Writing letters of application
- Being on a union or professional register

Civilian Labor Force—Consists of persons classified as employed or unemployed in accordance with the criteria described above.

Experienced Unemployed—These are unemployed persons who have worked at any time in the past.

Experienced Civilian Labor Force—Consists of the employed and the experienced unemployed.

Labor Force—All persons classified in the civilian labor force plus members of the U.S. Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in Labor Force—All persons 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an *off* season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Worker—This term appears in connection with several subjects: journey-to-work items, class of worker, weeks worked in 1989, and number of workers in family in 1989. Its meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.

Actual Hours Worked Last Week—All persons who reported working during the reference week were asked to report in questionnaire item 21b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours typically or usually worked or the scheduled number of hours. The concept of "actual hours" differs from that of "usual hours" described below. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working. Respondents were asked to include overtime or extra hours worked, but to exclude lunch hours, sick leave, and vacation leave.

Limitation of the Data—The census may understate the number of employed persons because persons who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed persons "at work" is probably overstated in the census (and conversely, the number of employed "with a job, but not at work" is understated) since some persons on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed persons. The reference week for the employment data is not the same for all persons. Since persons can change their employment status from one week to another, the lack of a uniform reference week may mean that the employment data do not reflect the reality of the employment situation of any given week. (For more information, see the discussion under "Reference Week.")

Comparability—The questionnaire items and employment status concepts for the 1990 census are essentially the same as those used in the 1980 and 1970 censuses. However, these concepts differ in many respects from those associated with the 1950 and 1960 censuses.

Since employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest

number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, some tabulations may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

An additional difference in the data arises from the fact that persons who had a job but were not at work are included with the employed in the census statistics, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the employment status data in census tabulations include persons on the basis of place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly significant when comparing data for workers who commute between areas.

Census data on actual hours worked during the reference week may differ from data from other sources. The census measures hours actually worked, whereas some surveys measure hours paid for by employers. Comparability of census actual hours worked data may also be affected by the nature of the reference week (see "Reference Week").

For several reasons, the unemployment figures of the Census Bureau are not comparable with published figures on unemployment compensation claims. For example, figures on unemployment compensation claims exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (including some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used by the Census Bureau. Persons working only a few hours during the week and persons with a job but not at work are sometimes eligible for unemployment compensation but are classified as "Employed" in the census. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as the place of residence of the unemployed worker.

The figures on employment status from the decennial census are generally comparable with similar data collected in the Current Population Survey. However, some difference may exist because of variations in enumeration and processing techniques.

FERTILITY

The data on fertility (also referred to as "children ever born") were derived from answers to questionnaire item 20, which was asked of a sample of women 15 years old and over regardless of marital status. Stillbirths, stepchildren, and adopted children were excluded from the number of children ever born. Ever-married women were instructed to include all children born to them before and during their most recent marriage, children no longer living, and children away from home, as well as children who were still living in the home. Never-married women were instructed to include all children born to them.

Data are most frequently presented in terms of the aggregate number of children ever born to women in the specified category and in terms of the rate per 1,000 women. For purposes of calculating the aggregate, the open-ended response category, "12 or more" is assigned a value of 13.

Limitation of the Data—Although the data are assumed to be less complete for out-of-wedlock births than for births occurring within marriage, comparisons of 1980 census data on the fertility of single women with other census sources and administrative records indicate that no significant differences were found between different data sources; that is, 1980 census data on children ever born to single women were complete with no significant understatements of childbearing.

Comparability—The wording of the question on children ever born was the same in 1990 as in 1980. In 1970, however, the question on children ever born was asked of all ever-married women but only of never-married women who received self-administered questionnaires. Therefore, rates and numbers of children ever born to single women in 1970 may be understated. Data presented for children ever born to ever-married women are comparable for the 1990 census and all previous censuses containing this question.

GROUP QUARTERS

All persons not living in households are classified by the Census Bureau as living in group quarters. Two general categories of persons in group quarters are recognized: (1) institutionalized persons and (2) other persons in group quarters (also referred to as "noninstitutional group quarters").

Institutionalized Persons—Includes persons under formally authorized, supervised care or custody in institutions at the time of enumeration. Such persons are classified as "patients or inmates" of an institution regardless of the availability of nursing or medical care, the length of stay, or the number of persons in the institution. Generally, institutionalized persons are restricted to the institutional buildings and grounds (or must have passes or escorts to leave) and thus have limited interaction with the surrounding community. Also, they are generally under the care of trained staff who have responsibility for their safekeeping and supervision.

Type of Institution—The type of institution was determined as part of census enumeration activities. For institutions which specialize in only one specific type of service, all patients or inmates were given the same classification. For institutions which had multiple types of major services (usually general hospitals and Veterans' Administration hospitals), patients were classified according to selected types of wards. For example, in psychiatric wards of hospitals, patients were classified in "mental (psychiatric) hospitals"; in hospital wards for persons with chronic diseases, patients were classified in "hospitals for the chronically ill." Each patient or inmate was classified in only one type of institution. Institutions include the following types:

Correctional Institutions—Includes prisons, Federal detention centers, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities, including work farms.

Prisons—Where persons convicted of crimes serve their sentences. In some census products, the prisons are classified by two types of control: (1) "Federal" (operated by the Bureau of Prisons of the Department of Justice) and (2) "State." Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards) operated by departments of correction or similar agencies; or (2) in institutions operated by departments of mental health or similar agencies.

Federal Detention Centers—Operated by the Immigration and Naturalization Service (INS) and the Bureau of Prisons. These facilities include detention centers used by the Park Police; Bureau of Indian Affairs Detention Centers; INS Centers, such as the INS Federal Alien Detention Facility; INS Processing Centers; and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings, as well as those aliens who have not been placed into proceedings, such as custodial required departures; and INS Detention Centers operated within local jails, and State and Federal prisons.

Military Stockades, Jails—Operated by military police and used to hold persons awaiting trial or convicted of violating military laws.

Local Jails and Other Confinement Facilities—Includes facilities operated by counties and cities that primarily hold persons beyond arraignment, usually for more than 48 hours. Also included in this category are work farms used to hold persons awaiting trial or serving time on relatively short sentences and jails run by private businesses under contract for local governments (but *not* by State governments).

Police Lockups—Temporary-holding facilities operated by county and city police that hold persons for 48 hours or less only if they have not been formally charged in court.

Halfway Houses—Operated for correctional purposes and include probation and restitution centers, pre-release centers, and community-residential centers.

Other Types of Correctional Institutions—Privately operated correctional facilities and correctional facilities specifically for alcohol/ drug abuse.

Nursing Homes—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/ nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Federal," "State," "Private not-for-profit," and "Private for profit."

Mental (Psychiatric) Hospitals—Includes hospitals or wards for the criminally insane not operated by a prison, and psychiatric wards of general hospitals and veterans' hospitals. Patients receive supervised medical/ nursing care from formally-trained staff. In some census products, mental hospitals are classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Hospitals for Chronically Ill—Includes hospitals for patients who require long-term care, including those in military hospitals and wards for the chronically ill located on military bases; or other hospitals or wards for the chronically ill, which include tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices, wards for patients with Hansen's Disease (leprosy) and other incurable diseases, and other unspecified wards for the chronically ill. Patients who had no usual home elsewhere were enumerated as part of the institutional population in the wards of general and military hospitals. Most hospital patients are at the hospital temporarily and were enumerated at their usual place of residence. (For more information, see "Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere.")

Schools, Hospitals, or Wards for the Mentally Retarded—Includes those institutions such as wards in hospitals for the mentally retarded, and intermediate-care facilities for the mentally retarded that provide supervised medical/ nursing care from formally-trained staff. In some census products, this category is classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Schools, Hospitals, or Wards for the Physically Handicapped—Includes three types of institutions: institutions for the blind, those for the deaf, and orthopedic wards and institutions for the physically handicapped. Institutions for persons with speech problems are classified with "institutions for the deaf." The category "orthopedic wards and institutions for the physically handicapped" includes those institutions providing relatively long-term care to accident victims, and to persons with polio, cerebral palsy, and muscular dystrophy. In some census products, this category is classified by type of ownership as "Public," "Private," and "Ownership not known."

Hospitals, and Wards for Drug/Alcohol Abuse—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere—Includes maternity, neonatal, pediatric (including wards for boarder babies), military, and surgical wards of hospitals, and wards for persons with infectious diseases.

Juvenile Institutions—Includes homes, schools, and other institutions providing care for children (short- or long-term care). Juvenile institutions include the following types:

Homes for Abused, Dependent, and Neglected Children—Includes orphanages and other institutions which provide long-term care (usually more than 30 days) for children. This category is classified in some census products by type of ownership as "Public" and "Private."

Residential Treatment Centers—Includes those institutions which primarily serve children who, by clinical diagnosis, are moderately or seriously disturbed emotionally. Also, these institutions provide long-term treatment services, usually supervised or directed by a psychiatrist.

Training Schools for Juvenile Delinquents—Includes residential training schools or homes, and industrial schools, camps, or farms for juvenile delinquents.

Public Training Schools for Juvenile Delinquents—Usually operated by a State agency (for example, department of welfare, corrections, or a youth authority). Some are operated by county and city governments. These public training schools are specialized institutions serving delinquent children, generally between the ages of 10 and 17 years old, all of whom are committed by the courts.

Private Training Schools—Operated under private auspices. Some of the children they serve are committed by the courts as delinquents. Others are referred by parents or social agencies because of delinquent behavior. One difference between private and public training schools is that, by their administrative policy, private schools have control over their selection and intake.

Detention Centers—Includes institutions providing short-term care (usually 30 days or less) primarily for delinquent children pending disposition of their cases by a court. This category also covers diagnostic centers. In practice, such institutions may be caring for both delinquent and neglected children pending court disposition.

Other Persons in Group Quarters (also referred to as "noninstitutional group quarters")—Includes all persons who live in group quarters other than institutions. Persons who live in the following living quarters are classified as "other persons in group quarters" when there are 10 or more unrelated persons living in the unit; otherwise, these living quarters are classified as housing units.

Rooming Houses—Includes persons residing in rooming and boarding houses and living in quarters with 10 or more unrelated persons.

Group Homes—Includes "community-based homes" that provide care and supportive services. Such places include homes for the mentally ill, mentally retarded, and physically handicapped; drug/ alcohol halfway houses; communes; and maternity homes for unwed mothers.

Homes for the Mentally Ill—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as "Federal," "State," "Private," and "Ownership not known." Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

Homes for the Mentally Retarded—Includes community-based homes that provide care primarily for the mentally retarded. Homes which combine treatment of the physically handicapped with treatment

of the mentally retarded are counted as homes for the mentally retarded. This category is classified by type of ownership in some census products, as "Federal," "State," "Private," or "Ownership not known."

Homes for the Physically Handicapped—Includes community-based homes for the blind, for the deaf, and other community-based homes for the physically handicapped. Persons with speech problems are classified with homes for the deaf. In some census products, this category is classified by type of ownership as "Public," "Private," or "Ownership not known."

Homes or Halfway Houses for Drug/Alcohol Abuse—Includes persons with no usual home elsewhere in places that provide community-based care and supportive services to persons suffering from a drug/alcohol addiction and to recovering alcoholics and drug abusers. Places providing community-based care for drug and alcohol abusers include group homes, detoxification centers, quarterway houses (residential treatment facilities that work closely with accredited hospitals), halfway houses, and recovery homes for ambulatory, mentally competent recovering alcoholics and drug abusers who may be re-entering the work force.

Maternity Homes for Unwed Mothers—Includes persons with no usual home elsewhere in places that provide domestic care for unwed mothers and their children. These homes may provide social services and post-natal care within the facility, or may make arrangements for women to receive such services in the community. Nursing services are usually available in the facility.

Other Group Homes—Includes persons with no usual home elsewhere in communes, foster care homes, and job corps centers with 10 or more unrelated persons. These types of places provide communal living quarters, generally for persons who have formed their own community in which they have common interests and often share or own property jointly.

Religious Group Quarters—Includes, primarily, group quarters for nuns teaching in parochial schools and for priests living in rectories. It also includes other convents and monasteries, except those associated with a general hospital or an institution.

College Quarters Off Campus—Includes privately-owned rooming and boarding houses off campus, if the place is reserved exclusively for occupancy by college students and if there are 10 or more unrelated persons. In census products, persons in this category are classified as living in a college dormitory.

Persons residing in certain other types of living arrangements are classified as living in "noninstitutional group quarters" regardless of the number of people sharing the unit. These include persons residing in the following types of group quarters:

College Dormitories—Includes college students in dormitories (provided the dormitory is restricted to students who do not have their families living with them), fraternity and sorority houses, and on-campus residential quarters used exclusively for those in religious orders who are attending college. Students in privately-owned rooming and boarding houses off campus are also included, if the place is reserved exclusively for occupancy by college-level students and if there are 10 or more unrelated persons.

Military Quarters—Includes military personnel living in barracks and dormitories on base, in transient quarters on base for temporary residents (both civilian and military), and on military ships. However, patients in military hospitals receiving treatment for chronic diseases or who had no usual home elsewhere, and persons being held in military stockades were included as part of the institutional population.

Agriculture Workers' Dormitories—Includes persons in migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms, such as those on "tree farms."

Other Workers' Dormitories—Includes persons in logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), and nonfarm migratory workers' camps (for example, workers in mineral and mining camps).

Emergency Shelters for Homeless Persons (with sleeping facilities) and Visible in Street Locations—Includes persons enumerated during the "Shelter-and-Street-Night" operation primarily on March 20-21, 1990. Enumerators were instructed not to ask if a person was "homeless." If a person was at one of the locations below on March 20-21, the person was counted as described below. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.) This category is divided into four classifications:

Emergency Shelters for Homeless Persons (with sleeping facilities)—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, hotels/motels, and flophouses charging $12 or less (excluding taxes) per night; Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless;

and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes that provide *temporary* sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

Shelters for Runaway, Neglected, and Homeless Children—Includes shelters/ group homes which provide *temporary* sleeping facilities for juveniles.

Visible in Street Locations—Includes street blocks and open public locations designated before March 20, 1990, by city and community officials as places where the homeless congregate at night. *All* persons found at predesignated street sites from 2 a.m. to 4 a.m. and leaving abandoned or boarded-up buildings from 4 a.m. to 8 a.m. on March 21, 1990, were enumerated during "street" enumeration, except persons in uniform such as police and persons engaged in obvious money-making activities other than begging or panhandling. Enumerators were instructed not to ask if a person was "homeless."

This cannot be considered a complete count of all persons living on the streets because those who were so well hidden that local people did not know where to find them were likely to have been missed as were persons moving about or in places not identified by local officials. It is also possible that persons with homes could have been included in the count of "visible in street locations" if they were present when the enumerator did the enumeration of a particular block.

Predesignated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites (tent cities), all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, train stations, airports, bus depots, and subway stations.

Shelters for Abused Women (Shelters Against Domestic Violence or Family Crisis Centers)—Includes community-based homes or shelters that provide domiciliary care for women who have sought shelter from family violence and who may have been physically abused. Most shelters also provide care for children of abused women. These shelters may provide social services, meals, psychiatric treatment, and counseling. In some census products, "shelters for abused women" are included in the category "other noninstitutional group quarters."

Dormitories for Nurses and Interns in General and Military Hospitals—Includes group quarters for nurses and other staff members. It excludes patients.

Crews of Maritime Vessels—Includes officers, crew members, and passengers of maritime U.S. flag vessels. All ocean-going and Great Lakes ships are included.

Staff Residents of Institutions—Includes staff residing in group quarters on institutional grounds who provide formally-authorized, supervised care or custody for the institutionalized population.

Other Nonhousehold Living Situations—Includes persons with no usual home elsewhere enumerated during transient or "T-Night" enumeration at YMCA's, YWCA's, youth hostels, commercial and government-run campgrounds, campgrounds at racetracks, fairs, and carnivals, and similar transient sites.

Living Quarters for Victims of Natural Disasters—Includes living quarters for persons temporarily displaced by natural disasters.

Limitation of the Data—Two types of errors can occur in the classification of "types of group quarters":

1. *Misclassification of Group Quarters*—During the 1990 Special Place Prelist operation, the enumerator determined the type of group quarters associated with each special place in their assignment. The enumerator used the Alphabetical Group Quarters Code List and Index to the Alphabetical Group Quarters Code List to assign a two-digit code number followed by either an "I," for institutional, or an "N," for noninstitutional to each group quarters. In 1990, unacceptable group quarter codes were edited. (For more information on editing of unacceptable data, see Appendix C, Accuracy of the Data.)
2. *No Classification (unknowns)*—The imputation rate for type of institution was higher in 1980 (23.5 percent) than in 1970 (3.3 percent). Improvements were made to the 1990 Alphabetical Group Quarters Code List; that is, the inclusion of more group quarters categories and an "Index to the Alphabetical Group Quarters Code List." (For more information on the allocation rates for Type of Institution, see the allocation rates in 1990 CP-1, *General Population Characteristics.*)

In previous censuses, allocation rates for demographic characteristics (such as age, sex, race, and marital status) of the institutional population were similar to those for the total population. The allocation rates for sample characteristics such as school enrollment, highest grade completed, income, and veteran status for the institutional and noninstitutional group quarters population have been substantially higher than the population in households at least as far back as the 1960 census. The data, however, have historically presented a reasonable picture of the institutional and noninstitutional group quarters population.

Shelter and Street Night (S-Night)—For the 1990 census "Shelter-and-Street-Night" operation, persons well hidden, moving about, or in locations enumerators did not visit were likely to be missed. The number of people missed will never be known; thus, the 1990 census cannot be considered to include a definitive count of America's total homeless population. It does, however, give an idea of relative differences among areas of the country. Other components were counted as part of regular census procedures.

The count of persons in shelters and visible on the street could have been affected by many factors. How much the factors affected the count can never be answered definitively, but some elements include:

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Cities were encouraged to open temporary shelters for census night, and many did that and actively encouraged people to enter the shelters. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.
4. The weather, which was unusually cold in some parts of the country, could affect how likely people were to seek emergency shelter or to be more hidden than usual if they stayed outdoors.
5. The media occasionally interfered with the ability to do the count.
6. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

The Census Bureau conducted two assessments of Shelter and Street Night: (1) the quality of the lists of shelters used for the Shelter-and-Street-Night operation, and (2) how well procedures were followed by census- takers for the street count in parts of five cities (Chicago, Los Angeles, New Orleans, New York, and Phoenix). Information about these two assessments is available from the Chief, Center for Survey Methods Research, Bureau of the Census, Washington, DC 20233.

Comparability—For the 1990 census, the definition of institutionalized persons was revised so that the definition of "care" only includes persons under organized medical or formally-authorized, supervised care or custody. As a result of this change to the institutional definition, maternity homes are classified as noninstitutional rather than institutional group quarters as in previous censuses. The following types of other group quarters are classified as institutional rather than noninstitutional group quarters: "halfway houses (operated for correctional purposes)" and "wards in general and military hospitals for patients who have no usual home elsewhere," which includes maternity, neonatal, pediatric, military, and surgical wards of hospitals, other-purpose wards of hospitals, and wards for infectious diseases. These changes should not significantly affect the comparability of data with earlier censuses because of the relatively small number of persons involved.

As in 1980, 10 or more unrelated persons living together were classified as living in noninstitutional group quarters. In 1970, the criteria was six or more unrelated persons.

Several changes also have occurred in the identification of specific types of group quarters. For the first time, the 1990 census identifies separately the following types of correctional institutions: persons in halfway houses (operated for correctional purposes), military stockades and jails, and police lockups. In 1990, tuberculosis hospitals or wards are included with hospitals for the chronically ill; in 1980, they were shown separately. For 1990, the noninstitutional group quarters category, "Group homes" is further classified as: group homes for drug/alcohol abuse; maternity homes (for unwed mothers), group homes for the mentally ill, group homes for the mentally retarded, and group homes for the physically handicapped. Persons living in communes, foster-care homes, and job corps centers are classified with "Other group homes" only if 10 or more unrelated persons share the unit; otherwise, they are classified as housing units.

In 1990, workers' dormitories were classified as group quarters regardless of the number of persons sharing the dorm. In 1980, 10 or more unrelated persons had to share the dorm for it to be classified as a group quarters. In 1960, data on persons in military barracks were shown only for men. In subsequent censuses, they include both men and women.

In 1990 census data products, the phrase "inmates of institutions" was changed to "institutionalized persons." Also, persons living in noninstitutional group quarters were referred to as "other persons in group quarters," and the phrase "staff residents" was used for staff living in institutions.

In 1990, there are additional institutional categories and noninstitutional group quarters categories compared with the 1980 census. The institutional categories added include "hospitals and wards for drug/alcohol abuse" and "military hospitals for the chronically ill." The noninstitutional group quarters categories added include emergency shelters for homeless persons; shelters for runaway, neglected, and homeless children; shelters for abused women; and visible-in-street locations. Each of these noninstitutional group quarters categories was enumerated on March 20-21, 1990,

during the "Shelter-and-Street-Night" operation. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.)

HISPANIC ORIGIN

The data on Spanish/Hispanic origin were derived from answers to questionnaire item 7, which was asked of all persons. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—"Mexican," "Puerto Rican," or "Cuban"—as well as those who indicated that they were of "other Spanish/Hispanic" origin. Persons of "Other Spanish/Hispanic" origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic, or they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. Write-in responses to the "other Spanish/Hispanic" category were coded only for sample data.

Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Some tabulations are shown by the Hispanic origin of the householder. In all cases where households, families, or occupied housing units are classified by Hispanic origin, the Hispanic origin of the householder is used. (See the discussion of householder under "Household Type and Relationship.")

During direct interviews conducted by enumerators, if a person could not provide a single origin response, he or she was asked to select, based on self-identification, the group which best described his or her origin or descent. If a person could not provide a single group, the origin of the person's mother was used. If a single group could not be provided for the person's mother, the first origin reported by the person was used.

If any household member failed to respond to the Spanish/Hispanic origin question, a response was assigned by the computer according to the reported entries of other household members by using specific rules of precedence of household relationship. In the processing of sample questionnaires, responses to other questions on the questionnaire, such as ancestry and place of birth, were used to assign an origin before any reference was made to the origin reported by other household members. If an origin was not entered for any household member, an origin was assigned from another household according to the race of the householder. This procedure is a variation of the general imputation process described in Appendix C, Accuracy of the Data.

Comparability—There may be differences between the total Hispanic origin population based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures for the Spanish/Hispanic origin item on the sample questionnaires. (For more information on sampling variability and nonsampling error, see Appendix C, Accuracy of the Data.)

The 1990 data on Hispanic origin are generally comparable with those for the 1980 census. However, there are some differences in the format of the Hispanic origin question between the two censuses. For 1990, the word "descent" was deleted from the 1980 wording. In addition, the term "Mexican-Amer." used in 1980 was shortened further to "Mexican-Am." to reduce misreporting (of "American") in this category detected in the 1980 census. Finally, the 1990 question allowed those who reported as "other Spanish/Hispanic" to write in their specific Hispanic origin group.

Misreporting in the "Mexican-Amer." category of the 1980 census item on Spanish/Hispanic origin may affect the comparability of 1980 and 1990 census data for persons of Hispanic origin for certain areas of the country. An evaluation of the 1980 census item on Spanish/Hispanic origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the Midwest Region. Also, results based on available data suggest that the impact of possible misreporting of Mexican origin in the 1980 census was severe in those portions of the above-mentioned regions where the Hispanic origin population was generally sparse. However, national 1980 census data on the Mexican origin population or total Hispanic origin population at the national level was not seriously affected by the reporting problem. (For a more detailed discussion of the evaluation of the 1980 census Spanish/Hispanic origin item, see the 1980 census Supplementary Reports.)

The 1990 and 1980 census data on the Hispanic population are not directly comparable with 1970 Spanish origin data because of a number of factors: (1) overall improvements in the 1980 and 1990 censuses, (2) better coverage of the population, (3) improved question designs, and (4) an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups.

Specific changes in question design between the 1980 and 1970 censuses included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the 1970 category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations "Mexican-American" and "Chicano" were added to the Spanish/Hispanic origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population.

HOUSEHOLD TYPE AND RELATIONSHIP

Household

A household includes all the persons who occupy a housing unit. A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from the outside of the building or through a common hall. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

In 100-percent tabulations, the count of households or householders always equals the count of occupied housing units. In sample tabulations, the numbers may differ as a result of the weighting process.

Persons Per Household—A measure obtained by dividing the number of persons in households by the number of households (or householders). In cases where persons in households are cross-classified by race or Hispanic origin, persons in the household are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual.

Relationship to Householder

Householder—The data on relationship to householder were derived from answers to questionnaire item 2, which was asked of all persons in housing units. One person in each household is designated as the householder. In most cases, this is the person, or one of the persons, in whose name the home is owned, being bought, or rented and who is listed in column 1 of the census questionnaire. If there is no such person in the household, any adult household member 15 years old and over could be designated as the householder.

Households are classified by type according to the sex of the householder and the presence of relatives. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder is a householder living with one or more persons related to him or her by birth, marriage, or adoption. The householder and all persons in the household related to him or her are family members. A nonfamily householder is a householder living alone or with nonrelatives only.

Spouse—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons in common-law marriages.

The number of spouses is equal to the number of "married-couple families" or "married-couple households" in 100-percent tabulations. The number of spouses, however, is generally less than half of the number of "married persons with spouse present" in sample tabulations, since more than one married couple can live in a household, but only spouses of householders are specifically identified as "spouse." For sample tabulations, the number of "married persons with spouse present" includes married-couple subfamilies and married-couple families.

Child—Includes a son or daughter by birth, a stepchild, or adopted child of the householder, regardless of the child's age or marital status. The category excludes sons-in-law, daughters-in-law, and foster children.

Natural-Born or Adopted Son/Daughter—A son or daughter of the householder by birth, regardless of the age of the child. Also, this category includes sons or daughters of the householder by legal adoption, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Stepson/Stepdaughter—A son or daughter of the householder through marriage but not by birth, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Own Child—A never-married child under 18 years who is a son or daughter by birth, a stepchild, or an adopted child of the householder. In certain tabulations, own children are further classified as living with two parents or with one parent only. Own children of the householder living with two parents are by definition found only in married-couple families.

In a subfamily, an "own child" is a never-married child under 18 years of age who is a son, daughter, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

"Related children" in a family include own children and all other persons under 18 years of age in the household, regardless of marital status, who are related to the householder, except the spouse of the householder. Foster children are not included since they are not related to the householder.

Other Relatives—In tabulations, includes any household member related to the householder by birth, marriage, or adoption, but not included specifically in another relationship category. In certain detailed tabulations, the following categories may be shown:

Grandchild—The grandson or granddaughter of the householder.

Brother/Sister—The brother or sister of the householder, including stepbrothers, stepsisters, and brothers and sisters by adoption. Brothers-in-law and sisters-in-law are included in the "Other relative" category on the questionnaire.

Parent—The father or mother of the householder, including a stepparent or adoptive parent. Fathers-in-law and mothers-in-law are included in the "Other relative" category on the questionnaire.

Other Relatives—Anyone not listed in a reported category above who is related to the householder by birth, marriage, or adoption (brother-in-law, grandparent, nephew, aunt, mother-in-law, daughter-in-law, cousin, and so forth).

Nonrelatives—Includes any household member, including foster children not related to the householder by birth, marriage, or adoption. The following categories may be presented in more detailed tabulations:

Roomer, Boarder, or Foster Child—Roomer, boarder, lodger, and foster children or foster adults of the householder.

Housemate or Roommate—A person who is not related to the householder and who shares living quarters primarily in order to share expenses.

Unmarried Partner—A person who is not related to the householder, who shares living quarters, and who has a close personal relationship with the householder.

Other Nonrelatives—A person who is not related by birth, marriage, or adoption to the householder and who is not described by the categories given above.

When relationship is not reported for an individual, it is imputed according to the responses for age, sex, and marital status for that person while maintaining consistency with responses for other individuals in the household. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Unrelated Individual

An unrelated individual is: (1) a householder living alone or with nonrelatives only, (2) a household member who is not related to the householder, or (3) a person living in group quarters who is not an inmate of an institution.

Family Type

A family consists of a householder and one or more other persons living in the same household who are related to the householder by birth, marriage, or adoption. All persons in a household who are related to the householder are regarded as members of his or her family. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may comprise a group of unrelated persons or one person living alone.

Families are classified by type as either a "married-couple family" or "other family" according to the sex of the householder and the presence of relatives. The data on family type are based on answers to questions on sex and relationship which were asked on a 100-percent basis.

Married-Couple Family—A family in which the householder and his or her spouse are enumerated as members of the same household.

Other Family:

Male Householder, No Wife Present—A family with a male householder and no spouse of householder present.

Female Householder, No Husband Present—A family with a female householder and no spouse of householder present.

Persons Per Family—A measure obtained by dividing the number of persons in families by the total number of families (or family householders). In cases where the measure, "persons in family" or "persons per family" are cross-tabulated by race or Hispanic origin, the race or Hispanic origin refers to the householder rather than the race or Hispanic origin of each individual.

Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to, but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

Subfamilies are defined during processing of sample data. In selected tabulations, subfamilies are further classified by type: married-couple subfamilies, with or without own children; mother-child subfamilies; and father-child subfamilies.

Lone parents include people maintaining either one-parent families or one-parent subfamilies. Married couples include husbands and wives in both married-couple families and married-couple subfamilies.

Unmarried-Partner Household

An unmarried-partner household is a household other than a "married-couple household" that includes a householder and an "unmarried partner." An "unmarried partner" can be of the same sex or of the opposite sex of the householder. An "unmarried partner" in an "unmarried-partner household" is an adult who is unrelated to the householder, but shares living quarters and has a close personal relationship with the householder.

Unmarried-Couple Household

An unmarried-couple household is composed of two unrelated adults of the opposite sex (one of whom is the householder) who share a housing unit with or without the presence of children under 15 years old.

Foster Children

Foster children are nonrelatives of the householder and are included in the category, "Roomer, boarder, or foster child" on the questionnaire. Foster children are identified as persons under 18 years old and living in households that have no nonrelatives 18 years old and over (who might be parents of the nonrelatives under 18 years old).

Stepfamily

A stepfamily is a "married-couple family" with at least one stepchild of the householder present, where the householder is the husband.

Comparability—The 1990 definition of a household is the same as that used in 1980. The 1980 relationship category "Son/daughter" has been replaced by two categories, "Natural-born or adopted son/daughter" and "Stepson/stepdaughter." "Grandchild" has been added as a separate category. The 1980 nonrelative categories: "Roomer, boarder" and "Partner, roommate" have been replaced by the categories "Roomer, boarder, or foster child," "Housemate, roommate," and "Unmarried partner." The 1980 nonrelative category "Paid employee" has been dropped.

INCOME IN 1989

The data on income in 1989 were derived from answers to questionnaire items 32 and 33. Information on money income received in the calendar year 1989 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. "Earnings" is defined as the algebraic sum of wage or salary income and net income from farm and nonfarm self-employment. "Earnings" represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources are not included as income: money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income Type in 1989

The eight types of income reported in the census are defined as follows:

1. *Wage or Salary Income*—Includes total money earnings received for work performed as an employee during the calendar year 1989. It includes wages, salary, Armed Forces pay, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, pensions, union dues, etc.

2. *Nonfarm Self-Employment Income*—Includes net money income (gross receipts minus expenses) from one's own business, professional enterprise, or partnership. Gross receipts include the value of all goods sold and services rendered. Expenses includes costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.

3. *Farm Self-Employment Income*—Includes net money income (gross receipts minus operating expenses) from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. Gross receipts include the value of all products sold, government farm programs, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, gravel, etc. Operating expenses include cost of feed, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building

repairs, farm taxes (not State and Federal personal income taxes), etc. The value of fuel, food, or other farm products used for family living is not included as part of net income.

4. *Interest, Dividend, or Net Rental Income*—Includes interest on savings or bonds, dividends from stockholdings or membership in associations, net income from rental of property to others and receipts from boarders or lodgers, net royalties, and periodic payments from an estate or trust fund.

5. *Social Security Income*—Includes Social Security pensions and survivors benefits and permanent disability insurance payments made by the Social Security Administration prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. Medicare reimbursements are not included.

6. *Public Assistance Income*—Includes: (1) supplementary security income payments made by Federal or State welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled; (2) aid to families with dependent children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item.

7. *Retirement or Disability Income*—Includes: (1) retirement pensions and survivor benefits from a former employer, labor union, or Federal, State, county, or other governmental agency; (2) disability income from sources such as worker's compensation; companies or unions; Federal, State, or local government; and the U.S. military; (3) periodic receipts from annuities and insurance; and (4) regular income from IRA and KEOGH plans.

8. *All Other Income*—Includes unemployment compensation, Veterans Administration (VA) payments, alimony and child support, contributions received periodically from persons not living in the household, military family allotments, net gambling winnings, and other kinds of periodic income other than earnings.

Income of Households—Includes the income of the householder and all other persons 15 years old and over in the household, whether related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Income of Families and Persons—In compiling statistics on family income, the incomes of all members 15 years old and over in each family are summed and treated as a single amount. However, for persons 15 years old and over, the total amounts of their own incomes are used. Although the income statistics covered the calendar year 1989, the characteristics of persons and the composition of families refer to the time of enumeration (April 1990). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1989 if these persons no longer resided with the family at the time of enumeration. Yet, family income amounts reported by related persons who did not reside with the family during 1989 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1989 as in April 1990.

Median Income—The median divides the income distribution into two equal parts, one having incomes above the median and the other having incomes below the median. For households and families, the median income is based on the distribution of the total number of units including those with no income. The median for persons is based on persons with income. The median income values for all households, families, and persons are computed on the basis of more detailed income intervals than shown in most tabulations. Median household or family income figures of $50,000 or less are calculated using linear interpolation. For persons, corresponding median values of $40,000 or less are also computed using linear interpolation. All other median income amounts are derived through Pareto interpolation. (For more information on medians and interpolation, see the discussion under "Derived Measures.")

Mean Income—This is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income. "Per capita income" is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean income values for small subgroups of the population. Because the mean is influenced strongly by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small. The mean, nevertheless, is shown in some data products for most small subgroups because, when weighted according to the number of cases, the means can be added to obtained summary measures for areas and groups other than those shown in census tabulations.

Limitation of the Data—Since questionnaire entries for income frequently are based on memory and not on records, many persons tended to forget minor or irregular sources of income and, therefore, underreport their income. Underreporting tends to be more pronounced for income sources that are not derived from earnings, such as Social Security, public assistance, or from interest, dividends, and net rental income.

There are errors of reporting due to the misunderstanding of the income questions such as reporting gross rather than net dollar amounts for the two questions on net self-employment income, which resulted in an overstatement of these items. Another common error is the reporting of identical dollar amounts in two of the eight type of income items where a respondent with only one source of income assumed that the second amount should be entered to represent total income. Such instances of overreporting had an impact on the level of mean nonfarm or farm self-employment income and mean total income published for the various geographical subdivisions of the State.

Extensive computer editing procedures were instituted in the data processing operation to reduce some of these reporting errors and to improve the accuracy of the income data. These procedures corrected various reporting deficiencies and improved the consistency of reported income items associated with work experience and information on occupation and class of worker. For example, if persons reported they were self-employed on their own farm, not incorporated, but had reported wage and salary earnings only, the latter amount was shifted to net farm self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the type of income items according to responses to the work experience and class-of-worker questions. Another type of problem involved nonreporting of income data. Where income information was not reported, procedures were devised to impute appropriate values with either no income or positive or negative dollar amounts for the missing entries. (For more information on imputation, see Appendix C, Accuracy of the Data.)

In income tabulations for households and families, the lowest income group (e.g., less than $5,000) includes units that were classified as having no 1989 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or families in which the sole breadwinner had recently died or left the household. However, many of the households and families who reported no income probably had some money income which was not recorded in the census.

The income data presented in the tabulations covers money income only. The fact that many farm families receive an important part of their income in the form of "free" housing and goods produced and consumed on the farm rather than in money should be taken into consideration in comparing the income of farm and nonfarm residents. Nonmoney income such as business expense accounts, use of business transportation and facilities, or partial compensation by business for medical and educational expenses was also received by some nonfarm residents. Many low income families also receive income "in kind" from public welfare programs. In comparing income data for 1989 with earlier years, it should be noted that an increase or decrease in money income does not necessarily represent a comparable change in real income, unless adjustments for changes in prices are made.

Comparability—The income data collected in the 1980 and 1970 censuses are similar to the 1990 census data, but there are variations in the detail of the questions. In 1980, income information for 1979 was collected from persons in approximately 19 percent of all housing units and group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Interest, dividend, or net rental or royalty income
- Social Security income
- Public assistance income
- Income from all other sources

Between the 1980 and 1990 censuses, there were minor differences in the processing of the data. In both censuses, all persons with missing values in one or more of the detailed type of income items *and* total income were designated as allocated. Each missing entry was imputed either as a "no" or as a dollar amount. If total income was reported *and* one or more of the type of income fields was not answered, then the entry in total income generally was assigned to one of the income types according to the socioeconomic characteristics of the income recipient. This person was designated as unallocated.

In 1980 and 1990, all nonrespondents with income not reported (whether heads of households or other persons) were assigned the reported income of persons with similar characteristics. (For more information on imputation, see Appendix C, "Accuracy of the Data.")

There was a difference in the method of computer derivation of aggregate income from individual amounts between the two census processing operations. In the 1980 census, income amounts less than $100,000 were coded in tens of dollars, and amounts of $100,000 or more were coded in thousands of dollars; $5 was added to each amount coded in tens of dollars and $500 to each amount coded in thousands of dollars. Entries of $999,000 or more were treated as $999,500 and losses of $9,999 or more were treated as minus $9,999. In the 1990 census, income amounts less than $999,999 were

keyed in dollars. Amounts of $999,999 or more were treated as $999,999 and losses of $9,999 or more were treated as minus $9,999 in all of the computer derivations of aggregate income.

In 1970, information on income in 1969 was obtained from all members in every fifth housing unit and small group quarters (less than 15 persons) and every fifth person in all other group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social Security or Railroad Retirement
- Public assistance or welfare payments
- Income from all other sources

If a person reported a dollar amount in wage or salary, net nonfarm self-employment income, or net farm self-employment income, the person was considered as unallocated only if no further dollar amounts were imputed for any additional missing entries.

In 1960, data on income were obtained from all members in every fourth housing unit and from every fourth person 14 years old and over living in group quarters. Each person was required to report wage or salary income, net self-employment income, and income other than earnings received in 1959. An assumption was made in the editing process that no other type of income was received by a person who reported the receipt of either wage and salary income or self-employment but who had failed to report the receipt of other money income.

For several reasons, the income data shown in census tabulations are not directly comparable with those that may be obtained from statistical summaries of income tax returns. Income, as defined for Federal tax purposes, differs somewhat from the Census Bureau concept. Moreover, the coverage of income tax statistics is different because of the exemptions of persons having small amounts of income and the inclusion of net capital gains in tax returns. Furthermore, members of some families file separate returns and others file joint returns; consequently, the income reporting unit is not consistently either a family or a person.

The earnings data shown in census tabulations are not directly comparable with earnings records of the Social Security Administration. The earnings record data for 1989 excluded the earnings of most civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and persons not covered by the program because of insufficient earnings. Furthermore, earnings received from any one employer in excess of $48,000 in 1989 are not covered by earnings records. Finally, because census data are obtained from household questionnaires, they may differ from Social Security Administration earnings record data, which are based upon employers' reports and the Federal income tax returns of self-employed persons.

The Bureau of Economic Analysis (BEA) of the Department of Commerce publishes annual data on aggregate and per-capita personal income received by the population for States, metropolitan areas, and selected counties. Aggregate income estimates based on the income statistics shown in census products usually would be less than those shown in the BEA income series for several reasons. The Census Bureau data are obtained directly from households, whereas the BEA income series is estimated largely on the basis of data from administrative records of business and governmental sources. Moreover, the definitions of income are different. The BEA income series includes some items not included in the income data shown in census publications, such as income "in kind," income received by nonprofit institutions, the value of services of banks and other financial intermediaries rendered to persons without the assessment of specific charges, Medicare payments, and the income of persons who died or emigrated prior to April 1, 1990. On the other hand, the census income data include contributions for support received from persons not residing in the same household and employer contributions for social insurance.

INDUSTRY, OCCUPATION, AND CLASS OF WORKER

The data on industry, occupation, and class of worker were derived from answers to questionnaire items 28, 29, and 30 respectively. These questions were asked of a sample of persons. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job.

For employed persons, the data refer to the person's job during the reference week. For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for the 1990 census as described below. The *Classified Index of Industries and Occupations* provided additional information on the industry and occupation classification systems.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were keyed and passed through automated coding software which assigned a portion of the written entries to categories in the classification system. The automated system assigned codes to 59 percent of the industry entries and 38 percent of the occupation entries.

Those cases not coded by the computer were referred to clerical staff in the Census Bureau's Kansas City processing office for coding. The clerical staff converted the written questionnaire descriptions to codes by comparing these descriptions to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List (formerly called Company Name List). This list, prepared from the Standard Statistical Establishment List developed by the Census Bureau for the economic censuses and surveys, contained the names of business establishments and their Standard Industrial Classification (SIC) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

Industry

The industry classification system developed for the 1990 census consists of 235 categories for employed persons, classified into 13 major industry groups. Since 1940, the industrial classification has been based on the Standard Industrial Classification Manual (SIC). The 1990 census classification was developed from the 1987 SIC published by the Office of Management and Budget Executive Office of the President.

The SIC was designed primarily to classify establishments by the type of industrial activity in which they were engaged. However, census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification systems, while defined in SIC terms, cannot reflect the full detail in all categories. There are several levels of industrial classification found in census products. For example, the 1990 CP-2, *Social and Economic Characteristics* report includes 41 unique industrial categories, while the 1990 Summary Tape File 4 (STF 4) presents 72 categories.

Occupation

The occupational classification system developed for the 1990 census consists of 500 specific occupational categories for employed persons arranged into 6 summary and 13 major occupational groups. This classification was developed to be consistent with the Standard Occupational Classification (SOC) Manual: 1980, published by the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce. Tabulations with occupation as the primary characteristic present several levels of occupational detail. The most detailed tabulations are shown in a special 1990 subject report and tape files on occupation. These products contain all 500 occupational categories plus industry or class of worker subgroupings of occupational categories.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. However, the industry categories include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to questionnaire item 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

Private Wage and Salary Workers—Includes persons who worked for wages, salary, commission, tips, pay-in-kind, or piece rates for a private for profit employer or a private not-for-profit, tax-exempt or charitable organization. Self-employed persons whose business was incorporated are included with private wage and salary workers because they are paid employees of their own companies. Some tabulations present data separately for these subcategories: "For profit," "Not for profit," and "Own business incorporated."

Employees of foreign governments, the United Nations, or other formal international organizations were classified as "Private-not-for-profit."

Government Workers—Includes persons who were employees of any local, State, or Federal governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for the three levels of government.

Self-Employed Workers—Includes persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm.

Unpaid Family Workers—Includes persons who worked 15 hours or more without pay in a business or on a farm operated by a relative.

Salaried/ Self-Employed—In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers; self-employed includes self-employed persons and unpaid family workers.

The industry category, "Public administration," is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of

governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items at all. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation, certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it was possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to ensure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was assigned from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data also were blank, all these economic items were assigned from one other person who provided all the necessary data.

Comparability—Comparability of industry and occupation data was affected by a number of factors, primarily the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes were needed to recognize the "birth" of new industries and occupations, the "death" of others, and the growth and decline in existing industries and occupations, as well as, the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Changes in the nature of jobs and respondent terminology, and refinement of category composition made these movements necessary.

In the 1990 census, the industry classification had minor revisions to reflect recent changes to the SIC. The 1990 occupational classification system is essentially the same as that for the 1980 census. However, the conversion of the census classification to the SOC in 1980 meant that the 1990 classification system was less comparable to the classifications used prior to the 1980 census.

Other factors that affected data comparability included the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions were worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Employer Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in the residual categories, "Industry not reported" and "Occupation not reported." In 1970, an allocation process was introduced that assigned these cases to major groups. In 1990, as in 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 and 1990 data for individual categories included some numbers of persons who were tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical Paper No. 26, 1972; and U.S. Bureau of the Census, *The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems*, Technical Paper No. 59, 1988. For citations for earlier census years, see the 1980 Census of Population report, PC80-1-D, *Detailed Population Characteristics*.

The 1990 census introduced an additional class of worker category for "private not-for-profit" employers. This category is a subset of the 1980 category "employee of private employer" so there is no comparable data before 1990. Also in 1990, employees of foreign governments, the United Nations, etc., are classified as "private not-for-profit," rather than Federal Government as in 1970 and 1980. While in theory, there was a change in comparability, in practice, the small number of U.S. residents working for foreign governments made this change negligible.

Comparability between the statistics on industry and occupation from the 1990 census and statistics from other sources is affected by many of the factors described in the section on "Employment Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from

establishments often excluded private household workers, government workers, and the self-employed. Also, the replies from household respondents may have differed in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often include persons not in the labor force or persons devoting all or most of their time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attained complete coverage of membership in a particular occupational field.

JOURNEY TO WORK

Place of Work

The data on place of work were derived from answers to questionnaire item 22, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.")

Data were tabulated for workers 16 years and over; that is, members of the Armed Forces and civilians who were at work during the reference week. Data on place of work refer to the geographic location at which workers carried out their occupational activities during the reference week. The exact address (number and street) of the place of work was asked, as well as the place (city, town, or post office); whether or not the place of work was inside or outside the limits of that city or town; and the county, State, and ZIP Code. If the person's employer operated in more than one location, the exact address of the location or branch where the respondent worked was requested. When the number and street name were unknown, a description of the location, such as the building name or nearest street or intersection, was to be entered.

Persons who worked at more than one location during the reference week were asked to report the one at which they worked the greatest number of hours. Persons who regularly worked in several locations each day during the reference week were requested to give the address at which they began work each day. For cases in which daily work did not begin at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

In some tabulations, place-of-work locations may be defined as "in area of residence" and "outside area of residence." The area of residence may vary from table to table or even within a table, and refers to the particular area or areas shown. For example, in a table that provides data for counties, "in area of residence" refers to persons who worked in the same county in which they lived, while "outside area of residence" refers to persons whose workplace was located in a county different from the one in which they lived. Similarly, in a table that provides data for several types of areas, such as the State and its individual metropolitan areas (MA's), counties, and places, the place-of-work data will be variable and is determined by the geographic level (State, MA, county, or place) shown in each section of the tabulation.

In tabulations that present data for States, workplaces for the residents of the State may include, in addition to the State itself, each contiguous State. The category, "in noncontiguous State or abroad," includes persons who worked in a State that did not border their State of residence as well as persons who worked outside the United States.

In tabulations that present data for an MSA/PMSA, place-of-work locations are specified to show the main destinations of workers living in the MSA/PMSA. (For more information on metropolitan areas (MA's), see Appendix A, Area Classifications.) All place-of-work locations are identified with respect to the boundaries of the MSA/PMSA as "inside MSA/PMSA" or "outside MSA/PMSA." Locations within the MSA/PMSA are further divided into each central city, and each county or county balance. Selected large incorporated places also may be specified as places of work.

Within New England MSA/PMSA's, the places of work presented generally are cities and towns. Locations outside the MSA/PMSA are specified if they are important commuting destinations for residents of the MSA/PMSA, and may include adjoining MSA/PMSA's and their central cities, their component counties, large incorporated places, or counties, cities, or other geographic areas outside any MA. In tabulations for MSA/PMSA's in New England; Honolulu, Hawaii; and certain other MA's, some place-of-work locations are identified as "areas" (e.g., Area 1, Area 5, Area 12, etc.). Such areas consist of groups of towns, cities, census designated places (Honolulu MSA only), or counties that have been identified as unique place-of-work destinations. When an adjoining MSA/PMSA or MSA/PMSA remainder is specified as a place-of-work location, its components are not defined. However, the components are presented in the 1990 CP-1, *General Population Characteristics for Metropolitan Areas* and the 1990 CH-1, *General Housing Characteristics for Metropolitan Areas* reports. In tabulations that present data for census tracts outside MA's, place-of-work locations are defined as "in county of residence" and "outside county of residence."

In areas where the workplace address was coded to the block level, persons were tabulated as working inside or outside a specific place based on the location of that address, regardless of the response to question 22c concerning city/town limits. In areas where it was

impossible to code the workplace address to the block level, persons were tabulated as working in a place if a place name was reported in question 22b and the response to question 22c was either "Yes" or the item was left blank. In selected areas, census designated places (CDP's) may appear in the tabulations as places of work. The accuracy of place-of-work data for CDP's may be affected by the extent to which their census names were familiar to respondents, and by coding problems caused by similarities between the CDP name and the names of other geographic jurisdictions in the same vicinity.

Place-of-work data are given for selected minor civil divisions (generally, cities, towns, and townships) in the nine Northeastern States, based on the responses to the place-of-work question. Many towns and townships are regarded locally as equivalent to a place and therefore, were reported as the place of work. When a respondent reported a locality or incorporated place that formed a part of a township or town, the coding and tabulating procedure was designed to include the response in the total for the township or town. The accuracy of the place-of-work data for minor civil divisions is greatest for the New England States. However, the data for some New England towns, for towns in New York, and for townships in New Jersey and Pennsylvania may be affected by coding problems that resulted from the unfamiliarity of the respondent with the minor civil division in which the workplace was located or when a township and a city or borough of the same or similar name are located close together.

Place-of-work data may show a few workers who made unlikely daily work trips (e.g., workers who lived in New York and worked in California). This result is attributable to persons who worked during the reference week at a location that was different from their usual place of work, such as persons away from home on business.

Comparability—The wording of the question on place of work was substantially the same in the 1990 census as it was in 1980. However, data on place of work from the 1990 census are based on the full census sample, while data from the 1980 census were based on only about one-half of the full sample.

For the 1980 census, nonresponse or incomplete responses to the place-of-work question were not allocated, resulting in the use of "not reported" categories in the 1980 publications. However, for the 1990 census, when place of work was not reported or the response was incomplete, a work location was allocated to the person based on their means of transportation to work, travel time to work, industry, and location of residence and workplace of others. The 1990 publications, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980 and 1990 census data on the gross number of workers in particular commuting flows, or the total number of persons working in an area, should be made with extreme caution. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category as in 1980.

Limitation of the Data—The data on place of work relate to a reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because the enumeration was not completed in 1 week. However, for the majority of persons, the reference week for the 1990 census is the last week in March 1990. The lack of a uniform reference week means that the place-of-work data reported in the census will not exactly match the distribution of workplace locations observed or measured during an actual workweek.

The place-of-work data are estimates of persons 16 years old and over who were both employed and at work during the reference week (including persons in the Armed Forces). Persons who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons are not included in the place-of-work data. Therefore, the data on place of work understate the total number of jobs or total employment in a geographic area during the reference week. It also should be noted that persons who had irregular, casual, or unstructured jobs during the reference week may have erroneously reported themselves as not working.

The address where the individual worked most often during the reference week was recorded on the census questionnaire. If a worker held two jobs, only data about the primary job (the one worked the greatest number of hours during the preceding week) was requested. Persons who regularly worked in several locations during the reference week were requested to give the address at which they began work each day. For cases in which daily work was not begun at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

Means of Transportation to Work

The data on means of transportation to work were derived from answers to questionnaire item 23a, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the person usually used to get from home to work during the reference week.

Persons who used different means of transportation on different days of the week were asked to specify the one they used most often, that is, the greatest number of days. Persons who used more than one means of transportation to get to work each day were asked to report the one used for the longest distance during the work trip. The category, "Car, truck, or van," includes workers using a car (including company cars but excluding taxicabs), a truck of one-ton capacity or less, or a van. The category, "Public transportation," includes workers who used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab even if each mode is not shown separately in the tabulation. The category, "Other means," includes workers who used a mode of travel which is not identified separately within the data distribution. The category, "Other means," may vary from table to table, depending on the amount of detail shown in a particular distribution.

The means of transportation data for some areas may show workers using modes of public transportation that are not available in those areas (e.g., subway or elevated riders in an MA where there actually is no subway or elevated service). This result is largely due to persons who worked during the reference week at a location that was different from their usual place of work (such as persons away from home on business in an area where subway service was available) and persons who used more than one means of transportation each day but whose principal means was unavailable where they lived (for example, residents of nonmetropolitan areas who drove to the fringe of an MA and took the commuter railroad most of the distance to work).

Private Vehicle Occupancy

The data on private vehicle occupancy were derived from answers to questionnaire item 23b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that their means of transportation to work was "Car, truck, or van." (For more information, see discussion under "Reference Week.")

Private vehicle occupancy refers to the number of persons who usually rode to work in the vehicle during the reference week. The category, "Drove alone," includes persons who usually drove alone to work as well as persons who were driven to work by someone who then drove back home or to a nonwork destination. The category, "Carpooled," includes workers who reported that two or more persons usually rode to work in the vehicle during the reference week.

Persons Per Car, Truck, or Van—This is obtained by dividing the number of persons who reported using a car, truck, or van to get to work by the number of such vehicles that they used. The number of vehicles used is derived by counting each person who drove alone as one vehicle, each person who reported being in a two-person carpool as one-half vehicle, each person who reported being in a three-person carpool as one-third vehicle, and so on, and then summing all the vehicles.

Time Leaving Home to Go to Work

The data on time leaving home to go to work were derived from answers to questionnaire item 24a. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. The departure time refers to the time of day that the person usually left home to go to work during the reference week. (For more information, see discussion under "Reference Week.")

Travel Time to Work

The data on travel time to work were derived from answers to questionnaire item 24b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. Travel time to work refers to the total number of minutes that it usually took the person to get from home to work during the reference week. The elapsed time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. (For more information, see discussion under "Reference Week.")

LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH

Language Spoken at Home

Data on language spoken at home were derived from the answers to questionnaire items 15a and 15b, which were asked of a sample of persons born before April 1, 1985. Instructions mailed with the 1990 census questionnaire stated that a respondent should mark "Yes" in question 15a if the person sometimes or always spoke a language other than English at home and should not mark "Yes" if a language was spoken only at school or if speaking was limited to a few expressions or slang. For question 15b, respondents were instructed to print the name of the non-English language spoken at home. If the person spoke more than one language other than English, the person was to report the language spoken more often or the language learned first.

The cover of the census questionnaire included information in Spanish which provided a telephone number for respondents to call to request a census

questionnaire and instructions in Spanish. Instruction guides were also available in 32 other languages to assist enumerators who encountered households or respondents who spoke no English.

Questions 15a and 15b referred to languages spoken at home in an effort to measure the current use of languages other than English. Persons who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Persons who reported speaking a language other than English at home may also speak English; however, the questions did not permit determination of the main or dominant language of persons who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

For persons who indicated that they spoke a language other than English at home in question 15a, but failed to specify the name of the language in question 15b, the language was assigned based on the language of other speakers in the household; on the language of a person of the same Spanish origin or detailed race group living in the same or a nearby area; or on a person of the same ancestry or place of birth. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. Persons for whom the name of a language other than English was entered in question 15b, and for whom question 15a was blank were assumed to speak that language at home.

The write-in responses listed in question 15b (specific language spoken) were transcribed onto computer files and coded into more than 380 detailed language categories using an automated coding system. The automated procedure compared write-in responses reported by respondents with entries in a computer dictionary, which initially contained approximately 2,000 language names. The dictionary was updated with a large number of new names, variations in spelling, and a small number of residual categories. Each write-in response was given a numeric code that was associated with one of the detailed categories in the dictionary. If the respondent listed more than one non-English language, only the first was coded.

The write-in responses represented the names people used for languages they speak. They may not match the names or categories used by linguists. The sets of categories used are sometimes geographic and sometimes linguistic. Figure 1 provides an illustration of the content of the classification schemes used to present language data. For more information, write to the Chief, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Household Language—In households where one or more persons (age 5 years old or over) speak a language other than English, the household language assigned to all household members is the non-English language spoken by the first person with a non-English language in the following order: householder, spouse, parent, sibling, child, grandchild, other relative, stepchild, unmarried partner, housemate or roommate, roomer, boarder, or foster child, or other nonrelative. Thus, persons who speak only English may have a non-English household language assigned to them in tabulations of persons by household language.

Figure 1. **Four- and Twenty-Five-Group Classifications of 1990 Census Languages Spoken at Home with Illustrative Examples**

Four-Group Classification	Twenty-Five-Group Classification	Examples
Spanish	Spanish	Spanish, Ladino
Other Indo-European	French	French, Cajun, French Creole
	Italian	
	Portuguese	
	German	
	Yiddish	
	Other West Germanic	Afrikaans, Dutch, Pennsylvania Dutch
	Scandinavian	Danish, Norwegian, Swedish
	Polish	
	Russian	
	South Slavic	Serbocroatian, Bulgarian, Macedonian, Slovene
	Other Slavic	Czech, Slovak, Ukrainian
	Greek	
	Indic	Hindi, Bengali, Gujarathi, Punjabi, Romany, Sinhalese
	Other Indo-European, not elsewhere classified	Armenian, Gaelic, Lithuanian, Persian
Languages of Asia and the Pacific	Chinese	
	Japanese	
	Mon-Khmer	Cambodian
	Tagalog	
	Korean	
	Vietnamese	
	Other languages (part)	Chamorro, Dravidian languages, Hawaiian, Ilocano, Thai, Turkish
All other languages	Arabic	
	Hungarian	
	Native North American languages	
	Other languages (part)	Amharic, Syriac, Finnish, Hebrew, languages of Central and South America, Other languages of Africa

Ability to Speak English

Persons 5 years old and over who reported that they spoke a language other than English in question 15a were also asked in question 15c to indicate their ability to speak English based on one of the following categories: "Very well," "Well," "Not well," or "Not at all."

The data on ability to speak English represent the person's own perception about his or her own ability or, because census questionnaires are usually completed

by one household member, the responses may represent the perception of another household member. The instruction guides and questionnaires that were mailed to households did not include any information on how to interpret the response categories in question 15c.

Persons who reported that they spoke a language other than English at home but whose ability to speak English was not reported, were assigned the English-language ability of a randomly selected person of the same age, Spanish origin, nativity and year of entry, and language group.

Linguistic Isolation—A household in which no person age 14 years or over speaks only English and no person age 14 years or over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under age 14 years who may speak only English.

Limitation of the Data—Persons who speak a language other than English at home may have first learned that language at school. However, these persons would be expected to indicate that they spoke English "Very well." Persons who speak a language other than English, but do not do so *at home,* should have been reported as not speaking a language other than English at home.

The extreme detail in which language names were coded may give a false impression of the linguistic precision of these data. The names used by speakers of a language to identify it may reflect ethnic, geographic, or political affiliations and do not necessarily respect linguistic distinctions. The categories shown in the tabulations were chosen on a number of criteria, such as information about the number of speakers of each language that might be expected in a sample of the United States population.

Comparability—Information on language has been collected in every census since 1890. The comparability of data among censuses is limited by changes in question wording, by the subpopulations to whom the question was addressed, and by the detail that was published.

The same question on language was asked in the 1980 and 1990 censuses. This question on the current language spoken at home replaced the questions asked in prior censuses on mother tongue; that is, the language other than English spoken in the person's home when he or she was a child; one's first language; or the language spoken before immigrating to the United States. The censuses of 1910-1940, 1960 and 1970 included questions on mother tongue. A change in coding procedure from 1980 to 1990 should have improved accuracy of coding and may affect the number of persons reported in some of the 380 plus categories. It should not greatly affect the 4-group or 25- group lists. In 1980, coding clerks supplied numeric codes for the written entries on each questionnaire using a 2,000 name reference list. In 1990 written entries were transcribed to a computer file and matched to a computer dictionary which began with the 2,000 name list, but expanded as unmatched names were referred to headquarters specialists for resolution.

The question on ability to speak English was asked for the first time in 1980. In tabulations from 1980, the categories "Very well" and "Well" were combined. Data from other surveys suggested a major difference between the category "Very well" and the remaining categories. In tabulations showing ability to speak English, persons who reported that they spoke English "Very well" are presented separately from persons who reported their ability to speak English as less than "Very well."

MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 6, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

All persons were asked whether they were "now married," "widowed," "divorced," "separated," or "never married." Couples who live together (unmarried persons, persons in common-law marriages) were allowed to report the marital status they considered the most appropriate.

Never Married—Includes all persons who have never been married, including persons whose only marriage(s) was annulled.

Ever Married—Includes persons married at the time of enumeration (including those separated), widowed, or divorced.

Now Married, Except Separated—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). The category may also include couples who live together or persons in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

Separated—Includes persons legally separated or otherwise absent from their spouse because of marital discord. Included are persons who have been deserted or who have parted because they no longer want to live together but who have not obtained a divorce.

Widowed—Includes widows and widowers who have not remarried.

Divorced—Includes persons who are legally divorced and who have not remarried.

In selected sample tabulations, data for married and separated persons are reorganized and combined with information on the presence of the spouse in the same household.

Now Married—All persons whose current marriage has not ended by widowhood or divorce. This category includes persons defined above as "separated."

Spouse Present—Married persons whose wife or husband was enumerated as a member of the same household, including those whose spouse may have been temporarily absent for such reasons as travel or hospitalization.

Spouse Absent—Married persons whose wife or husband was not enumerated as a member of the same household. This category also includes all married persons living in group quarters.

Separated—Defined above.

Spouse Absent, Other—Married persons whose wife or husband was not enumerated as a member of the same household, excluding separated. Included is any person whose spouse was employed and living away from home or in an institution or absent in the Armed Forces.

Differences between the number of currently married males and the number of currently married females occur because of reporting differences and because some husbands and wives have their usual residence in different areas. In sample tabulations, these differences can also occur because different weights are applied to the individual's data. Any differences between the number of "now married, spouse present" males and females are due solely to sample weighting. By definition, the numbers would be the same.

When marital status was not reported, it was imputed according to the relationship to the householder and sex and age of the person. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Comparability—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term "never married" which replaces the term "single" in tabulations. A general marital status question has been asked in every census since 1880.

MOBILITY LIMITATION STATUS

The data on mobility limitation status were derived from answers to questionnaire item 19a, which was asked of a sample of persons 15 years old and over. Persons were identified as having a mobility limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to go outside the home alone. Examples of outside activities on the questionnaire included shopping and visiting the doctor's office.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—This was the first time that a question on mobility limitation was included in the census.

PLACE OF BIRTH

The data on place of birth were derived from answers to questionnaire item 8, which was asked on a sample basis. The place-of-birth question asked respondents to report the U.S. State, commonwealth or territory, or the foreign country where they were born. Persons born outside the United States were asked to report their place of birth according to current international boundaries. Since numerous changes in boundaries of foreign countries have occurred in the last century, some persons may have reported their place of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference.

Persons not reporting place of birth were assigned the birthplace of another family member or were allocated the response of another person with similar characteristics. Persons allocated as foreign born were not assigned a specific country of birth but were classified as "Born abroad, country not specified."

Nativity—Information on place of birth and citizenship were used to classify the population into two major categories: native and foreign born. When information on place of birth was not reported, nativity was assigned on the basis of answers to citizenship, if reported, and other characteristics.

Native—Includes persons born in the United States, Puerto Rico, or an outlying area of the United States. The small number of persons who were born in a foreign country but have at least one American parent also are included in this category.

The native population is classified in the following groups: persons born in the State in which they resided at the time of the census; persons born in a different State, by region; persons born in Puerto Rico or an outlying area of the U.S.; and persons born abroad with at least one American parent.

Foreign Born—Includes persons not classified as "Native." Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The foreign-born population is shown by selected area, country, or region of birth: the places of birth shown in data products were selected based on the number of respondents who reported that area or country of birth.

Comparability—Data on the State of birth of the native population have been collected in each census beginning with that of 1850. Similar data were shown in tabulations for the 1980 census and other recent censuses. Nonresponse was allocated in a similar manner in 1980; however, prior to 1980, nonresponse to the place of birth question was not allocated. Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The questionnaire instruction to report mother's State of residence instead of the person's actual State of birth (if born in a hospital in a different State) was dropped in 1990. Evaluation studies of 1970 and 1980 census data demonstrated that this instruction was generally either ignored or misunderstood. Since the hospital and the mother's residence is in the same State for most births, this change may have a slight effect on State of birth data for States with large metropolitan areas that straddle State lines.

POVERTY STATUS IN 1989

The data on poverty status were derived from answers to the same questions as the income data, questionnaire items 32 and 33. (For more information, see the discussion under "Income in 1989.") Poverty statistics presented in census publications were based on a definition originated by the Social Security Administration in 1964 and subsequently modified by Federal interagency committees in 1969 and 1980 and prescribed by the Office of Management and Budget in Directive 14 as the standard to be used by Federal agencies for statistical purposes.

At the core of this definition was the 1961 economy food plan, the least costly of four nutritionally adequate food plans designed by the Department of Agriculture. It was determined from the Agriculture Department's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; hence, the poverty level for these families was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher to compensate for the relatively larger fixed expenses for these smaller households.

The income cutoffs used by the Census Bureau to determine the poverty status of families and unrelated individuals included a set of 48 thresholds arranged in a two-dimensional matrix consisting of family size (from one person to nine or more persons) cross-classified by presence and number of family members under 18 years old (from no children present to eight or more children present). Unrelated individuals and two-person families were further differentiated by age of the householder (under 65 years old and 65 years old and over).

The total income of each family or unrelated individual in the sample was tested against the appropriate poverty threshold to determine the poverty status of that family or unrelated individual. If the total income was less than the corresponding cutoff, the family or unrelated individual was classified as "below the poverty level." The number of persons below the poverty level was the sum of the number of persons in families with incomes below the poverty level and the number of unrelated individuals with incomes below the poverty level.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index. The average poverty threshold for a family of four persons was $12,674 in 1989. (For

Table A. **Poverty Thresholds in 1989 by Size of Family and Number of Related Children Under 18 Years**

Size of Family Unit	Weighted average thresholds	Related children under 18 years								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual)	$6,310									
Under 65 years	6 451	$6,451								
65 years and over	5,947	5,947								
Two persons	8,076									
Householder under 65 years	8,343	8,303	$8,547							
Householder 65 years and over	7,501	7,495	8,515							
Three persons	9,885	9,699	9,981	$9,990						
Four persons	12,674	12,790	12,999	12,575	$12,619					
Five persons	14,990	15,424	15,648	15,169	14,798	$14,572				
Six persons	16,921	17,740	17,811	17,444	17,092	16,569	$16,259			
Seven persons	19,162	20,412	20,540	20,101	19,794	19,224	18,558	$17,828		
Eight persons	21,328	22,830	23,031	22,617	22,253	21,738	21,084	20,403	$20,230	
Nine or more persons	25,480	27,463	27,596	27,229	26,921	26,415	25,719	25,089	24,933	$23,973

more information, see table A below.) Poverty thresholds were applied on a national basis and were not adjusted for regional, State or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 171, *Poverty in the United States: 1988 and 1989.*

Persons for Whom Poverty Status is Determined—Poverty status was determined for all persons except institutionalized persons, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the denominator when calculating poverty rates.

Specified Poverty Levels—Since the poverty levels currently in use by the Federal Government do not meet all the needs of data users, some of the data are presented for alternate levels. These specified poverty levels are obtained by multiplying the income cutoffs at the poverty level by the appropriate factor. For example, the average income cutoff at 125 percent of poverty level was $15,843 ($12,674 x 1.25) in 1989 for a family of four persons.

Weighted Average Thresholds at the Poverty Level—The average thresholds shown in the first column of table A are weighted by the presence and number of children. For example, the weighted average threshold for a given family size is obtained by multiplying the threshold for each presence and number of children category within the given family size by the number of families in that category. These products are then aggregated across the entire range of presence and number of children categories, and the aggregate is divided by the total number of families in the group to yield the weighted average threshold at the poverty level for that family size.

Since the basic thresholds used to determine the poverty status of families and unrelated individuals are applied to all families and unrelated individuals, the weighted average poverty thresholds are derived using all families and unrelated individuals rather than just those classified as being below the poverty level. To obtain the weighted poverty thresholds for families and unrelated individuals below alternate poverty levels, the weighted thresholds shown in table A may be multiplied directly by the appropriate factor. The weighted average thresholds presented in the table are based on the March 1990 Current Population Survey. However, these thresholds would not differ significantly from those based on the 1990 census.

Income Deficit—Represents the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the deficit is equal to the poverty threshold.

This measure provided an estimate of the amount which would be required to raise the incomes of all poor families and unrelated individuals to their respective poverty thresholds. The income deficit is thus a measure of the degree of impoverishment of a family or unrelated individual. However, caution must be used in comparing the average deficits of families with different characteristics. Apparent differences in average income deficits may, to some extent, be a function of differences in family size.

Mean Income Deficit—Represents the amount obtained by dividing the total income deficit of a group below the poverty level by the number of families (or unrelated individuals) in that group.

Comparability—The poverty definition used in the 1990 and 1980 censuses differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census as described below:

1. The separate thresholds for families with a female householder with no husband present and all other families were eliminated. For the 1980 and 1990 censuses, the weighted average of the poverty thresholds for these two types of families was applied to all types of families, regardless of the sex of the householder.
2. Farm families and farm unrelated individuals no longer had a set of poverty thresholds that were lower than the thresholds applied to nonfarm families and unrelated individuals. The farm thresholds were 85 percent of the corresponding levels for nonfarm families in the 1970 census. The same thresholds were applied to all families and unrelated individuals regardless of residence in 1980 and 1990.
3. The thresholds by size of family were extended from seven or more persons in 1970 to nine or more persons in 1980 and 1990.

These changes resulted in a minimal increase in the number of poor at the national level. For a complete discussion of these modifications and their impact, see the Current Population Reports, Series P-60, No. 133.

The population covered in the poverty statistics derived from the 1980 and 1990 censuses was essentially the same as in the 1970 census. The only difference was that in 1980 and 1990, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under 14 years old were excluded. The poverty data from the 1960 census excluded all persons in group quarters and included all unrelated individuals regardless of age. It was unlikely that these differences in population coverage would have had significant impact when comparing the poverty data for persons since the 1960 censuses.

Current Population Survey—Because of differences in the questionnaires and data collection procedures, estimates of the number of persons below the poverty level by various characteristics from the 1990 census may differ from those reported in the March 1990 Current Population Survey.

RACE

The data on race were derived from answers to questionnaire item 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects self-identification; it does not denote any clear-cut scientific definition of biological stock. The data for race represent self-classification by people according to the race with which they most closely identify. Furthermore, it is recognized that the categories of the race item include both racial and national origin or sociocultural groups.

During direct interviews conducted by enumerators, if a person could not provide a single response to the race question, he or she was asked to select, based on self-identification, the group which best described his or her racial identity. If a person could not provide a single race response, the race of the mother was used. If a single race response could not be provided for the person's mother, the first race reported by the person was used. In all cases where occupied housing units, households, or families are classified by race, the race of the householder was used.

The racial classification used by the Census Bureau generally adheres to the guidelines in Federal Statistical Directive No. 15, issued by the Office of Management and Budget, which provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. The racial categories used in the 1990 census data products are provided below.

White—Includes persons who indicated their race as "White" or reported entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black—Includes persons who indicated their race as "Black or Negro" or reported entries such as African American, Afro-American, Black Puerto Rican, Jamaican, Nigerian, West Indian, or Haitian.

American Indian, Eskimo, or Aleut—Includes persons who classified themselves as such in one of the specific race categories identified below.

American Indian—Includes persons who indicated their race as "American Indian," entered the name of an Indian tribe, or reported such entries as Canadian Indian, French-American Indian, or Spanish-American Indian.

American Indian Tribe—Persons who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written tribal entries reported on the questionnaires. Some of the entries (for example, Iroquois, Sioux, Colorado River, and Flathead) represent nations or reservations.

The information on tribe is based on self-identification and therefore does not reflect any designation of Federally- or State-recognized tribe. Information on American Indian tribes is presented in summary tape files and special data products. The information is derived from the American Indian Detailed Tribal Classification List for the 1990 census. The classification list represents all tribes, bands, and clans that had a specified number of American Indians reported on the census questionnaire.

Eskimo—Includes persons who indicated their race as "Eskimo" or reported entries such as Arctic Slope, Inupiat, and Yupik.

Aleut—Includes persons who indicated their race as "Aleut" or reported entries such as Alutiiq, Egegik, and Pribilovian.

Asian or Pacific Islander—Includes persons who reported in one of the Asian or Pacific Islander groups listed on the questionnaire or who provided write-in responses such as Thai, Nepali, or Tongan. A more detailed listing of the groups comprising the Asian or Pacific Islander population is presented in figure 2 below. In some data products, information is presented separately for the Asian population and the Pacific Islander population.

Asian—Includes "Chinese," "Filipino," "Japanese," "Asian Indian," "Korean," "Vietnamese," and "Other Asian." In some tables, "Other Asian" may not be shown separately, but is included in the total Asian population.

Chinese—Includes persons who indicated their race as "Chinese" or who identified themselves as Cantonese, Tibetan, or Chinese American. In standard census reports, persons who reported as "Taiwanese" or "Formosan" are included here with Chinese. In special reports on the Asian or Pacific Islander population, information on persons who identified themselves as Taiwanese are shown separately.

Filipino—Includes persons who indicated their race as "Filipino" or reported entries such as Philipino, Philipine, or Filipino American.

Japanese—Includes persons who indicated their race as "Japanese" and persons who identified themselves as Nipponese or Japanese American.

Asian Indian—Includes persons who indicated their race as "Asian Indian" and persons who identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

Korean—Includes persons who indicated their race as "Korean" and persons who identified themselves as Korean American.

Vietnamese—Includes persons who indicated their race as "Vietnamese" and persons who identified themselves as Vietnamese American.

Cambodian—Includes persons who provided a write-in response such as Cambodian or Cambodia.

Hmong—Includes persons who provided a write-in response such as Hmong, Laohmong, or Mong.

Laotian—Includes persons who provided a write-in response such as Laotian, Laos, or Lao.

Thai—Includes persons who provided a write-in response such as Thai, Thailand, or Siamese.

Other Asian—Includes persons who provided a write-in response of Bangladeshi, Burmese, Indonesian, Pakistani, Sri Lankan, Amerasian, or Eurasian. See figure 2 for other groups comprising "Other Asian."

Pacific Islander—Includes persons who indicated their race as "Pacific Islander" by classifying themselves into one of the following groups or identifying themselves as one of the Pacific Islander cultural groups of Polynesian, Micronesian, or Melanesian.

Hawaiian—Includes persons who indicated their race as "Hawaiian" as well as persons who identified themselves as Part Hawaiian or Native Hawaiian.

Samoan—Includes persons who indicated their race as "Samoan" or persons who identified themselves as American Samoan or Western Samoan.

Guamanian—Includes persons who indicated their race as "Guamanian" or persons who identified themselves as Chamorro or Guam.

Other Pacific Islander—Includes persons who provided a write-in response of a Pacific Islander group such as Tahitian, Northern Mariana Islander, Palauan, Fijian, or a cultural group such as Polynesian, Micronesian, or Melanesian. See figure 2 for other groups comprising "Other Pacific Islander."

Other Race—Includes all other persons not included in the "White," "Black," "American Indian, Eskimo, or Aleut," and the "Asian or Pacific Islander" race categories described above. Persons reporting in the "Other race" category and providing write-in entries such as multiracial, multiethnic, mixed, interracial, Wesort, or a Spanish/ Hispanic origin group (such as Mexican, Cuban, or Puerto Rican) are included here.

Written entries to three categories on the race item—"Indian (Amer.)," "Other Asian or Pacific Islander (API)," and "Other race"—were reviewed, edited, and coded by subject matter specialists. (For more information on the coding operation, see the section below that discusses "Comparability.")

The written entries under "Indian (Amer.)" and "Other Asian or Pacific Islander (API)" were reviewed and coded during 100-percent processing of the 1990 census questionnaires. A substantial portion of the entries for the "Other race" category also were reviewed, edited, and coded during the 100-percent processing. The remaining entries under "Other race" underwent review and coding during sample processing. Most of the written entries reviewed and coded during sample processing were those indicating Hispanic origin such as Mexican, Cuban, or Puerto Rican.

If the race entry for a member of a household was missing on the questionnaire, race was assigned based upon the reported entries of race by other household members using specific rules of precedence of household relationship. For example, if race was missing for the daughter of the householder, then the race of her mother (as female householder or female spouse) would be assigned. If there was no female householder or spouse in the household, the daughter would be assigned her father's (male householder) race. If race was not reported for anyone in the household, the race of a householder in a previously processed household was assigned. This procedure is a variation of the general imputation procedures described in Appendix C, Accuracy of the Data.

Limitation of the Data—In the 1980 census, a relatively high proportion (20 percent) of American Indians did not report any tribal entry in the race item. Evaluation of the pre-census tests indicated that changes made for the 1990 race item should improve the reporting of tribes in the rural areas (especially on reservations) for the 1990 census. The results for urban areas were inconclusive. Also, the precensus tests indicated that there may be overreporting of the Cherokee tribe. An evaluation of 1980 census data showed overreporting of Cherokee in urban areas or areas where the number of American Indians was sparse.

In the 1990 census, respondents sometimes did not fill in a circle or filled the "Other race" circle and wrote in a response, such as Arab, Polish, or African American in the shared write-in box for "Other race" and "Other

API" responses. During the automated coding process, these responses were edited and assigned to the appropriate racial designation. Also, some Hispanic origin persons did not fill in a circle, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process. There may be some minor differences between sample data and 100-percent data because sample processing included additional edits not included in the 100-percent processing.

Figure 2. **Asian or Pacific Islander Groups Reported in the 1990 Census**

Asian	Pacific Islander
Chinese	Hawaiian
Filipino	Samoan
Japanese	Guamanian
Asian Indian	Other Pacific Islander[1]
Korean	Carolinian
Vietnamese	Fijian
Cambodian	Kosraean
Hmong	Melanesian[3]
Laotian	Micronesian[3]
Thai	Northern Mariana Islander
Other Asian[1]	Palauan
Bangladeshi	Papua New Guinean
Bhutanese	Ponapean (Pohnpeian)
Borneo	Polynesian[3]
Burmese	Solomon Islander
Celebesian	Tahitian
Ceram	Tarawa Islander
Indochinese	Tokelauan
Indonesian	Tongan
Iwo-Jiman	Trukese (Chuukese)
Javanese	Yapese
Malayan	Pacific Islander, not specified
Maldivian	
Nepali	
Okinawan	
Pakistani	
Sikkim	
Singaporean	
Sri Lankan	
Sumatran	
Asian, not specified[2]	

[1]In some data products, specific groups listed under "Other Asian" or "Other Pacific Islander" are shown separately. Groups not shown are tabulated as "All other Asian" or "All other Pacific Islander," respectively.

[2]Includes entries such as Asian American, Asian, Asiatic, Amerasian, and Eurasian.

[3]Polynesian, Micronesian, and Melanesian are Pacific Islander cultural groups.

Comparability—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups and American Indian tribes. The 1990 census was the first census to undertake, on a 100-percent basis, an automated review, edit, and coding operation for written responses to the race item. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the race subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses. In the 1980 census, there was only a limited clerical review of the race responses on the 100-percent forms with a full clerical review conducted only on the sample questionnaires.

Another major difference between the 1990 and preceding censuses is the handling of the write-in responses for the Asian or Pacific Islander populations. In addition to the nine Asian or Pacific Islander categories shown on the questionnaire under the spanner "Asian or Pacific Islander (API)," the 1990 census race item provided a new residual category, "Other API," for Asian or Pacific Islander persons who did not report in one of the listed Asian or Pacific Islander groups. During the coding operation, write-in responses for "Other API" were reviewed, coded, and assigned to the appropriate classification. For example, in 1990, a write-in entry of Laotian, Thai, or Javanese is classified as "Other Asian," while a write-in entry of Tongan or Fijian is classified as "Other Pacific Islander." In the 1990 census, these persons were able to identify as "Other API" in both the 100-percent and sample operations.

In the 1980 census, the nine Asian or Pacific Islander groups were also listed separately. However, persons not belonging to these nine groups wrote in their specific racial group under the "Other" race category. Persons with a written entry such as Laotian, Thai, or Tongan, were tabulated and published as "Other race" in the 100-percent processing operation in 1980, but were reclassified as "Other Asian and Pacific Islander" in 1980 sample tabulations. In 1980 special reports on the Asian or Pacific Islander populations, data were shown separately for "Other Asian" and "Other Pacific Islander."

The 1970 questionnaire did not have separate race categories for Asian Indian, Vietnamese, Samoan, and Guamanian. These persons indicated their race in the "Other" category and later, through the editing process, were assigned to a specific group. For example, in 1970, Asian Indians were reclassified as "White," while Vietnamese, Guamanians, and Samoans were included in the "Other" category.

Another difference between 1990 and preceding censuses is the approach taken when persons of Spanish/Hispanic origin did not report in a specific race category but reported as "Other race" or "Other." These persons commonly provided a write-in entry such as Mexican, Venezuelan, or Latino. In the 1990 and 1980 censuses, these entries remained in the "Other race" or "Other" category, respectively. In the 1970 census, most of these persons were included in the "White" category.

REFERENCE WEEK

The data on labor force status and journey to work were related to the reference week; that is, the calendar week preceding the date on which the respondents

completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents since the enumeration was not completed in one week. The occurrence of holidays during the enumeration period could affect the data on actual hours worked during the reference week, but probably had no effect on overall measurement of employment status (see the discussion below on "Comparability").

Comparability—The reference weeks for the 1990 and 1980 censuses differ in that Passover and Good Friday occurred in the first week of April 1980, but in the second week of April 1990. Many workers presumably took time off for those observances. The differing occurrence of these holidays could affect the comparability of the 1990 and 1980 data on actual hours worked for some areas if the respective weeks were the reference weeks for a significant number of persons. The holidays probably did not affect the overall measurement of employment status since this information was based on work activity during the entire reference week.

RESIDENCE IN 1985

The data on residence in 1985 were derived from answers to question 14b, which asked for the State (or foreign country), county, and place of residence on April 1, 1985, for those persons reporting in question 14a that on that date they lived in a different house than their current residence. Residence in 1985 is used in conjunction with location of current residence to determine the extent of residential mobility of the population and the resulting redistribution of the population across the various States, metropolitan areas, and regions of the country.

When no information on residence in 1985 was reported for a person, information for other family members, if available, was used to assign a location of residence in 1985. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were allocated the previous residence of another person with similar characteristics who provided complete information.

The tabulation category, "Same house," includes all persons 5 years old and over who did not move during the 5 years as well as those who had moved but by 1990 had returned to their 1985 residence. The category, "Different house in the United States," includes persons who lived in the United States in 1985 but in a different house or apartment from the one they occupied on April 1, 1990. These movers are then further subdivided according to the type of move.

In most tabulations, movers are divided into three groups according to their 1985 residence: "Different house, same county," "Different county, same State," and "Different State." The last group may be further subdivided into region of residence in 1985. The category, "Abroad," includes those persons who were residing in a foreign country, Puerto Rico, or an outlying area of the U.S. in 1985, including members of the Armed Forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or an outlying area in 1985 separately from those residing in other countries.

In tabulations for metropolitan areas, movers are categorized according to the metropolitan status of their current and previous residences, resulting in such groups as movers within an MSA/PMSA, movers between MSA/PMSA's, movers from nonmetropolitan areas to MSA/PMSA, and movers from central cities to the remainder of an MSA/PMSA. In some tabulations, these categories are further subdivided by size of MSA/PMSA, region of current or previous residence, or movers within or between central cities and the remainder of the same or a different MSA/PMSA.

The size categories used in some tabulations for both 1985 and 1990 residence refer to the populations of the MSA/PMSA on April 1, 1990; that is, at the end of the migration interval.

Some tabulations present data on inmigrants, outmigrants, and net migration. "Inmigrants" are generally defined as those persons who entered a specified area by crossing its boundary from some point outside the area. In some tabulations, movers from abroad are included in the number of inmigrants; in others, only movers within the United States are included.

"Outmigrants" are persons who depart from a specific area by crossing its boundary to a point outside it, but without leaving the United States. "Net migration" is calculated by subtracting the number of outmigrants from the number of inmigrants and, depending upon the particular tabulation, may or may not include movers from abroad. The net migration for the area is net inmigration if the result was positive and net outmigration if the result was negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Inmigrants and outmigrants for States include only those persons who did not live in the same State in 1985 and 1990; that is, they exclude persons who moved between counties within the same State. Thus, the sum of the inmigrants to (or outmigrants from) all counties in any State is greater than the number of inmigrants to (or outmigrants from) that State. However, in the case of net migration, the sum of the nets for all the counties within a State equal the net for the State. In the same fashion, the net migration for a division or region equals the sum of the nets for the States comprising that division or region, while the number of inmigrants and outmigrants for that division or region is less than the sum of the inmigrants or outmigrants for the individual States.

The number of persons who were living in a different house in 1985 is somewhat less than the total number of moves during the 5-year period. Some persons in the

same house at the two dates had moved during the 5-year period but by the time of the census had returned to their 1985 residence. Other persons who were living in a different house had made one or more intermediate moves. For similar reasons, the number of persons living in a different county, MSA/PMSA, or State or moving between nonmetropolitan areas may be understated.

Comparability—Similar questions were asked on all previous censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Although the questions in the 1940 census covered a 5-year period, comparability with that census was reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 census is also somewhat reduced because nonresponse was not allocated in those earlier censuses. For the 1980 census, nonresponse was allocated in a manner similar to the 1990 allocation scheme.

SCHOOL ENROLLMENT AND LABOR FORCE STATUS

Tabulation of data on enrollment, educational attainment, and labor force status for the population 16 to 19 years old allows for calculation of the proportion of the age group who are not enrolled in school and not high school graduates or "dropouts" and an unemployment rate for the "dropout" population. Definitions of the three topics and descriptions of the census items from which they were derived are presented in "Educational Attainment," "Employment Status," and "School Enrollment and Type of School." The published tabulations include both the civilian and Armed Forces populations, but labor force status is provided for the civilian population only. Therefore, the component labor force statuses may not add to the total lines *enrolled in school, high school graduate,* and *not high school graduate.* The difference is Armed Forces.

Comparability—The tabulation of school enrollment by labor force status is similar to that published in 1980 census reports. The 1980 census tabulation included a single data line for Armed Forces; however, enrollment, attainment, and labor force status data were shown for the civilian population only. In 1970, a tabulation was included for 16 to 21 year old males not attending school.

SCHOOL ENROLLMENT AND TYPE OF SCHOOL

Data on school enrollment were derived from answers to questionnaire item 11, which was asked of a sample of persons. Persons were classified as enrolled in school if they reported attending a "regular" public or private school or college at any time between February 1, 1990, and the time of enumeration. The question included instructions to "include only nursery school, kindergarten, elementary school, and schooling which would lead to a high school diploma or a college degree" as regular school. Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that enrollment in a trade or business school, company training, or tutoring were not to be included unless the course would be accepted for credit at a regular elementary school, high school, or college. Persons who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, race or Hispanic origin, and, at older ages, sex, whose residence was in the same or a nearby area.

Public and Private School—Includes persons who attended school in the reference period and indicated they were enrolled by marking one of the questionnaire categories for either "public school, public college" or "private school, private college." The instruction guide defines a public school as "any school or college controlled and supported by a local, county, State, or Federal Government." "Schools supported and controlled primarily by religious organizations or other private groups" are defined as private. Persons who filled both the "public" and "private" circles are edited to the first entry, "public."

Level of School in Which Enrolled—Persons who were enrolled in school were classified as enrolled in "preprimary school," "elementary or high school," or "college" according to their response to question 12 (years of school completed or highest degree received). Persons who were enrolled and reported completing nursery school or less were classified as enrolled in "preprimary school," which includes kindergarten. Similarly, enrolled persons who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. Enrolled persons who reported completing high school or some college or having received a post-secondary degree were classified as enrolled in "college." Enrolled persons who reported completing the twelfth grade but receiving "NO DIPLOMA" were classified as enrolled in high school. (For more information on level of school, see the discussion under "Educational Attainment.")

Comparability—School enrollment questions have been included in the census since 1840; grade attended was first asked in 1940; type of school was first asked in 1960. Before 1940, the enrollment question in various censuses referred to attendance in the preceding six months or the preceding year. In 1940, the reference was to attendance in the month preceding the census,

and in the 1950 and subsequent censuses, the question referred to attendance in the two months preceding the census date.

Until the 1910 census, there were no instructions limiting the kinds of schools in which enrollment was to be counted. Starting in 1910, the instructions indicated that attendance at "school, college, or any educational institution" was to be counted. In 1930 an instruction to include "night school" was added. In the 1940 instructions, night school, extension school, or vocational school were included only if the school was part of the regular school system. Correspondence school work of any kind was excluded. In the 1950 instructions, the term "regular school" was introduced, and it was defined as schooling which "advances a person towards an elementary or high school diploma or a college, university, or professional school degree." Vocational, trade, or business schools were excluded unless they were graded and considered part of a regular school system. On-the-job training was excluded, as was nursery school. Instruction by correspondence was excluded unless it was given by a regular school and counted towards promotion.

In 1960, the question used the term "regular school or college" and a similar, though expanded, definition of "regular" was included in the instructions, which continued to exclude nursery school. Because of the census' use of mailed questionnaires, the 1960 census was the first in which instructions were written for the respondent as well as enumerators. In the 1970 census, the questionnaire used the phrase "regular school or college" and included instructions to "count nursery school, kindergarten, and schooling which leads to an elementary school certificate, high school diploma, or college degree." Instructions in a separate document specified that to be counted as regular school, nursery school must include instruction as an important and integral phase of its program, and continued the exclusion of vocational, trade, and business schools. The 1980 census question was very similar to the 1970 question, but the separate instruction booklet did not require that nursery school include substantial instructional content in order to be counted.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for persons of all ages in the 1930 and 1940 and 1970 through 1990; for persons under age 30, in 1950; and for persons age 5 to 34, in 1960. Most of the published enrollment figures referred to persons age 5 to 20 in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1960, 3 to 34 in 1970, and 3 years old and over in 1980. This growth in the age group whose enrollment was reported reflects increased interest in the number of children in preprimary schools and in the number of older persons attending colleges and universities.

In the 1950 and subsequent censuses, college students were enumerated where they lived while attending college, whereas in earlier censuses, they generally were enumerated at their parental homes. This change should not affect the comparability of national figures on college enrollment since 1940; however, it may affect the comparability over time of enrollment figures at sub-national levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled persons whether they were in a "public" or "private" school. Since the 1970 census, the type of school was incorporated into the response categories for the enrollment question and the terms were changed to "public," "parochial," and "other private." In the 1980 census, "private, church related" and "private, not church related" replaced "parochial" and "other private."

Grade of enrollment was first available in the 1940 census, where it was obtained from responses to the question on highest grade of school completed. Enumerators were instructed that "for a person still in school, the last grade completed will be the grade preceding the one in which he or she was now enrolled." From 1950 to 1980, grade of enrollment was obtained from the highest grade attended in the two-part question used to measure educational attainment. (For more information, see the discussion under "Educational Attainment.") The form of the question from which level of enrollment was derived in the 1990 census most closely corresponds to the question used in 1940. While data from prior censuses can be aggregated to provide levels of enrollment comparable to the 1990 census, 1990 data cannot be disaggregated to show single grade of enrollment as in previous censuses.

Data on school enrollment were also collected and published by other Federal, State, and local government agencies. Where these data were obtained from administrative records of school systems and institutions of higher learning, they were only roughly comparable with data from population censuses and household surveys because of differences in definitions and concepts, subject matter covered, time references, and enumeration methods. At the local level, the difference between the location of the institution and the residence of the student may affect the comparability of census and administrative data. Differences between the boundaries of school districts and census geographic units also may affect these comparisons.

SELF-CARE LIMITATION STATUS

The data on self-care limitation status were derived from answers to questionnaire item 19b, which was asked of a sample of persons 15 years old and over. Persons were identified as having a self-care limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to take care of their own personal needs, such as dressing, bathing, or getting around inside the home.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—This was the first time that a question on self-care limitation was included in the census.

SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. For more information on imputation, see Appendix C, Accuracy of the Data.

Sex Ratio—A measure derived by dividing the total number of males by the total number of females and multiplying by 100.

Comparability—A question on the sex of individuals was asked of the total population in every census.

VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to questionnaire item 17, which was asked of a sample of persons.

Veteran Status—The data on veteran status were derived from responses to question 17a. For census data products, a "civilian veteran" is a person 16 years old or over who had served (even for a short time) but is not now serving on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or the Coast Guard, or who served as a Merchant Marine seaman during World War II. Persons who served in the National Guard or military Reserves are classified as veterans only if they were ever called or ordered to active duty not counting the 4-6 months for initial training or yearly summer camps. All other civilians 16 years old and over are classified as nonveterans.

Period of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to indicate in question 17b the period or periods in which they served. Persons serving in at least one wartime period are classified in their most recent wartime period. For example, persons who served both during the Korean conflict and the post-Korean peacetime era between February 1955 and July 1964 are classified in one of the two "Korean conflict" categories. If the same person had also served during the Vietnam era, he or she would instead be included in the "Vietnam era and Korean conflict" category. The responses were edited to eliminate inconsistencies between reported period(s) of service and the age of the person and to cancel out reported combinations of periods containing unreasonable gaps (for example, a person could not serve during World War I and the Korean conflict without serving during World War II). Note that the period of service categories shown in this report are mutually exclusive.

Years of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to report the total number of years of active-duty service in question 17c. The data were edited for consistency with responses to question 17b (Period of Military Service) and with the age of the person.

Limitation of the Data—There may be a tendency for the following kinds of persons to report erroneously that they served on active duty in the Armed Forces: (a) persons who served in the National Guard or military Reserves but were never called to active duty; (b) civilian employees or volunteers for the USO, Red Cross, or the Department of Defense (or its predecessor Departments, War and Navy); and (c) employees of the Merchant Marine or Public Health Service. There may also be a tendency for persons to erroneously round up months to the nearest year in question 17c (for example, persons with 1 year 8 months of active duty military service may mistakenly report "2 years").

Comparability—Since census data on veterans were based on self-reported responses, they may differ from data from other sources such as administrative records of the Department of Defense. Census data may also differ from Veterans Administration data on the benefits-eligible population, since factors determining eligibility for veterans benefits differ from the rules for classifying veterans in the census.

The wording of the question on veteran status (17a) for 1990 was expanded from the veteran/not veteran question in 1980 to include questions on current active duty status and service in the military Reserves and the National Guard. The expansion was intended to clarify the appropriate response for persons in the Armed Forces and for persons who served in the National Guard or military Reserve units only. For the first time in a census, service during World War II as a Merchant Marine Seaman was considered active-duty military service and persons with such service were counted as veterans. An additional period of military service, "September 1980 or later" was added in 1990. As in 1970

and 1980, persons reporting more than one period of service are shown in the most recent wartime period of service category. Question 17c (Years of Military Service) was new for 1990.

WORK DISABILITY STATUS

The data on work disability were derived from answers to questionnaire item 18, which was asked of a sample of persons 15 years old and over. Persons were identified as having a work disability if they had a health condition that had lasted for 6 or more months and which limited the kind or amount of work they could do at a job or business. A person was limited in the kind of work he or she could do if the person had a health condition which restricted his or her choice of jobs. A person was limited in the amount of work if he or she was not able to work full-time. Persons with a work disability were further classified as "Prevented from working" or "Not prevented from working."

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—The wording of the question on work disability was the same in 1990 as in 1980. Information on work disability was first collected in 1970. In that census, the work disability question did not contain a clause restricting the definition of disability to limitations caused by a health condition that had lasted 6 or more months; however, it did contain a separate question about the duration of the disability.

WORK STATUS IN 1989

The data on work status in 1989 were derived from answers to questionnaire item 31, which was asked of a sample of persons. Persons 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as "Worked in 1989." All other persons 16 years old and over are classified as "Did not work in 1989." Some tabulations showing work status in 1989 include 15 year olds; these persons, by definition, are classified as "Did not work in 1989."

Weeks Worked in 1989

The data on weeks worked in 1989 were derived from responses to questionnaire item 31b. Question 31b (Weeks Worked in 1989) was asked of persons 16 years old and over who indicated in question 31a that they worked in 1989.

The data pertain to the number of weeks during 1989 in which a person did any work for pay or profit (including paid vacation and paid sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included.

Usual Hours Worked Per Week Worked in 1989

The data on usual hours worked per week worked in 1989 were derived from answers to questionnaire item 31c. This question was asked of persons 16 years old and over who indicated that they worked in 1989.

The data pertain to the number of hours a person usually worked during the weeks worked in 1989. The respondent was to report the number of hours worked per week in the majority of the weeks he or she worked in 1989. If the hours worked per week varied considerably during 1989, the respondent was to report an approximate average of the hours worked per week. The statistics on usual hours worked per week in 1989 are not necessarily related to the data on actual hours worked during the census reference week (question 21b).

Persons 16 years old and over who reported that they usually worked 35 or more hours each week during the weeks they worked are classified as "Usually worked full time;" persons who reported that they usually worked 1 to 34 hours are classified as "Usually worked part time."

Year-Round Full-Time Workers—All persons 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1989.

Number of Workers in Family in 1989—The term "worker" as used for these data is defined based on the criteria for Work Status in 1989.

Limitation of the Data—It is probable that the number of persons who worked in 1989 and the number of weeks worked are understated since there was some tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also be a tendency for persons not to include weeks of paid vacation among their weeks worked; one result may be that the census figures may understate the number of persons who worked "50 to 52 weeks."

Comparability—The data on weeks worked collected in the 1990 census were comparable with data from the 1980, 1970, and 1960 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Since the 1960 census, two separate questions have been used to obtain this information. The first identified persons with any work experience during the year and, thus, indicated those persons for whom the questions on number of weeks worked applied. In 1940 and 1950, however, the questionnaires contained only a single question on number of weeks worked.

In 1970, persons responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, persons were asked to enter the specific number of weeks they worked.

YEAR OF ENTRY

The data on year of entry were derived from answers to questionnaire item 10, which was asked of a sample of persons. The question, "When did this person come to the United States to stay?" was asked of persons who indicated in the question on citizenship that they were not born in the United States. (For more information, see the discussion under "Citizenship.")

The 1990 census questions, tabulations, and census data products about citizenship and year of entry include no reference to immigration. All persons who were born and resided outside the United States before becoming residents of the United States have a date of entry. Some of these persons are U.S. citizens by birth (e.g., persons born in Puerto Rico or born abroad of American parents). To avoid any possible confusion concerning the date of entry of persons who are U.S. citizens by birth, the term, "year of entry" is used in this report instead of the term "year of immigration."

Limitation of the Data—The census questions on nativity, citizenship, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase, "to stay" was used to obtain the year in which the person became a resident of the United States. Although the respondent was directed to indicate the year he or she entered the country "to stay," it was difficult to ensure that respondents interpreted the phrase correctly.

Comparability—A question on year of entry, (alternately called "year of immigration") was asked in each decennial census from 1890 to 1930, 1970, and 1980. In 1980, the question on year of entry included six arrival time intervals. The number of arrival intervals was expanded to ten in 1990. In 1980, the question on year of entry was asked only of the foreign-born population. In 1990, all persons who responded to the long-form questionnaire and were not born in the United States were to complete the question on year of entry.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see the discussion of "Group Quarters" under Population Characteristics.) Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, barracks, and old railroad cars.

Housing Units—A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms or a single room occupied as separate living quarters or, if vacant, intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from outside the building or through a common hall.

The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If that information cannot be obtained, the criteria are applied to the previous occupants.

Both occupied and vacant housing units are included in the housing unit inventory, except that recreational vehicles, boats, vans, tents, railroad cars, and the like are included only if they are occupied as someone's usual place of residence. Vacant mobile homes are included provided they are intended for occupancy on the site where they stand. Vacant mobile homes on dealers' sales lots, at the factory, or in storage yards are excluded from the housing inventory.

If the living quarters contains nine or more persons unrelated to the householder or person in charge (a total of at least 10 unrelated persons), it is classified as group quarters. If the living quarters contains eight or fewer persons unrelated to the householder or person in charge, it is classified as a housing unit.

Occupied Housing Units—A housing unit is classified as occupied if it is the usual place of residence of the person or group of persons living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation or business. If all the persons staying in the unit at the time of the census have their usual place of residence elsewhere, the unit is classified as vacant. A household includes all the persons who occupy a housing unit as their usual place of residence. By definition, the count of occupied housing units for 100-percent tabulations is the same as the count of households or householders. In sample tabulations, the counts of household and occupied housing units may vary slightly because of different sample weighting methods.

Vacant Housing Units—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration entirely by persons who have a usual residence elsewhere also are classified as vacant. (For more information, see discussion under "Usual Home Elsewhere.")

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final

usable floors are in place. Vacant units are excluded if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is condemned or is to be demolished. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

Hotels, Motels, Rooming Houses, Etc.—Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from others in the building and have direct access, their quarters are classified as separate housing units.

Staff Living Quarters—The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

Comparability—The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition has been modified slightly in succeeding censuses, the 1990 definition is essentially comparable to previous censuses. There was no change in the housing unit definition between 1980 and 1990.

ACREAGE

The data on acreage were obtained from questionnaire items H5a and H19a. Question H5a was asked at all occupied and vacant one-family houses and mobile homes. Question H19a was asked on a sample basis at occupied and vacant one-family houses and mobile homes.

Question H5a asks whether the house or mobile home is located on a place of 10 or more acres. The intent of this item is to exclude owner-occupied and renter-occupied one-family houses on 10 or more acres from the specified owner- and renter-occupied universes for value and rent tabulations.

Question H19a provides data on whether the unit is located on less than 1 acre. The main purpose of this item, in conjunction with question H19b on agricultural sales, is to identify farm units. (For more information, see discussion under "Farm Residence.")

For both items, the land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road, creek, another piece of land, etc.

Comparability—Question H5a is similar to that asked in 1970 and 1980. This item was asked for the first time of mobile home occupants in 1990. Question H19a is an abbreviated form of a question asked on a sample basis in 1980. In previous censuses, information on city or suburban lot and number of acres was obtained also.

AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from questionnaire item H19b, which was asked on a sample basis at occupied one-family houses and mobile homes located on lots of 1 acre or more. Data for this item exclude units on lots of less than 1 acre, units located in structures containing 2 or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1989 from the sale of crops, vegetables, fruits, nuts, livestock and livestock products, and nursery and forest products, produced on "this property." Respondents new to a unit were asked to estimate total agricultural sales in 1989 even if some portion of the sales had been made by other occupants of the unit.

This item is used mainly to classify housing units as farm or nonfarm residences, not to provide detailed information on the sale of agricultural products. Detailed information on the sale of agricultural products is provided by the Census Bureau's Census of Agriculture *(Factfinder for the Nation: Agricultural Statistics,* Bureau of the Census, 1989). (For more information, see the discussion under "Farm Residence.")

BEDROOMS

The data on bedrooms were obtained from questionnaire item H9, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. The number of bedrooms is the count of rooms designed to be used as bedrooms; that is, the number of rooms that would be listed as bedrooms if the house or apartment were on the market for sale or for rent. Included are all rooms intended to be used as bedrooms even if they currently are being used for some other purpose. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified, by definition, as having no bedroom.

Comparability—Data on bedrooms have been collected in every census since 1960. In 1970 and 1980, data for bedrooms were shown only for year-round units. In past censuses, a room was defined as a bedroom if it was used mainly for sleeping even if also

used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not considered to be bedrooms. A distribution of housing units by number of bedrooms calculated from data collected in a 1986 test showed virtually no differences in the two versions except in the two bedroom category, where the previous "use" definition showed a slightly lower proportion of units.

BOARDED-UP STATUS

Boarded-up status was obtained from questionnaire item C2 and was determined for all vacant units. Boarded-up units have windows and doors covered by wood, metal, or masonry to protect the interior and to prevent entry into the building. A single-unit structure, a unit in a multi-unit structure, or an entire multi-unit structure may be boarded-up in this way. For certain census data products, boarded-up units are shown only for units in the "Other vacant" category. A unit classified as "Usual home elsewhere" can never be boarded up. (For more information, see the discussion under "Usual Home Elsewhere.")

Comparability—This item was first asked in the 1980 census and was shown only for year-round vacant housing units. In 1990, data are shown for all vacant housing units.

BUSINESS ON PROPERTY

The data for business on property were obtained from questionnaire item H5b, which was asked at all occupied and vacant one-family houses and mobile homes. This question is used to exclude owner-occupied one-family houses with business or medical offices on the property from certain statistics on financial characteristics.

A business must be easily recognizable from the outside. It usually will have a separate outside entrance and have the appearance of a business, such as a grocery store, restaurant, or barber shop. It may be either attached to the house or mobile home or be located elsewhere on the property. Those housing units in which a room is used for business or professional purposes and have no recognizable alterations to the outside are *not* considered as having a business. Medical offices are considered/ businesses for tabulation purposes.

Comparability—Data on business on property have been collected since 1940.

CONDOMINIUM FEE

The data on condominium fee were obtained from questionnaire item H25, which was asked at owner-occupied condominiums. This item was asked on a sample basis. A condominium fee normally is charged monthly to the owners of the individual condominium units by the condominium owners association to cover operating, maintenance, administrative, and improvement costs of the common property (grounds, halls, lobby, parking areas, laundry rooms, swimming pool, etc.) The costs for utilities and/ or fuels may be included in the condominium fee if the units do not have separate meters.

Data on condominium fees may include real estate tax and/ or insurance payments for the common property, but do not include real estate taxes or fire, hazard, and flood insurance for the individual unit already reported in questions H21 and H22.

Amounts reported were the regular monthly payment, even if paid by someone outside the household or remain unpaid. Costs were estimated as closely as possible when exact costs were not known.

The data from this item were added to payments for mortgages (both first and junior mortgages and home equity loans); real estate taxes; fire, hazard, and flood insurance payments; and utilities and fuels to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for condominium owners.

Comparability—This is a new item in 1990.

CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H18, which was asked on a sample basis at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

Limitation of the Data—Testing done prior to the 1980 and 1990 censuses indicated that the number of condominiums may be slightly overstated.

Comparability—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all condominium units and the data were shown for renter-occupied and vacant year-round condominiums as well as owner occupied. In 1970 and 1980, the question on condominiums was asked on a 100-percent basis. In 1990, it was asked on a sample basis.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H7a, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

Housing units that are renter occupied without payment of cash rent are shown separately as "No cash rent" in census data products. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. Rent-free houses or apartments may be provided to compensate caretakers, ministers, tenant farmers, sharecroppers, or others.

Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included. For vacant units, it is the monthly rent asked for the rental unit at the time of enumeration.

If the contract rent includes rent for a business unit or for living quarters occupied by another household, the respondent was instructed to report that part of the rent estimated to be for his or her unit only. Respondents were asked to report rent only for the housing unit enumerated and to exclude any rent paid for additional units or for business premises.

If a renter pays rent to the owner of a condominium or cooperative, and the condominium fee or cooperative carrying charge is also paid by the renter to the owner, the respondent was instructed to include the fee or carrying charge.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the respondent was instructed to report the rent without deduction for any payments received from the lodgers or roomers. The respondent was instructed to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, or a church or welfare agency.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information on rent, see the discussion under "Gross Rent.")

Median and Quartile Contract Rent—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No cash rent" are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Contract Rent—To calculate aggregate contract rent, the amount assigned for the category "Less than $80" is $50. The amount assigned to the category "$1,000 or more" is $1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Limitation of the Data—In the 1970 and 1980 censuses, contract rent for vacant units had high allocation rates, about 35 percent.

Comparability—Data on this item have been collected since 1930. For 1990, quartiles were added because the range of rents and values in the United States has increased in recent years. Upper and lower quartiles can be used to note large rent and value differences among various geographic areas.

DURATION OF VACANCY

The data for duration of vacancy (also referred to as "months vacant") were obtained from questionnaire item D, which was completed by census enumerators. The statistics on duration of vacancy refer to the length of time (in months and years) between the date the last occupants moved from the unit and the time of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant.

For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied by an entire household with a usual home elsewhere are assigned to the "Less than 1 month" interval.

Comparability—Similar data have been collected since 1960. In 1970 and 1980, these data were shown only for year-round vacant housing units. In 1990, these data are shown for all vacant housing units.

FARM RESIDENCE

The data on farm residence were obtained from questionnaire items H19a and H19b. An occupied one-family house or mobile home is classified as a farm residence if: (1) the housing unit is located on a property of 1 acre or more, and (2) at least $1,000 worth of agricultural products were sold from the property in 1989. Group quarters and housing units that are in multi-unit buildings or vacant are not included as farm residences.

A one-family unit occupied by a tenant household paying cash rent for land and buildings is enumerated as a farm residence only if sales of agricultural products from its yard (as opposed to the general property on

which it is located) amounted to at least $1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

Farm residence is provided as an independent data item only for housing units located in rural areas. It may be derived for housing units in urban areas from the data items on acreage and sales of agricultural products on the public-use microdata sample (PUMS) files. (For more information on PUMS, see Appendix F, Data Products and User Assistance.)

The farm population consists of persons in households living in farm residences. Some persons who are counted on a property classified as a farm (including in some cases farm workers) are excluded from the farm population. Such persons include those who reside in multi-unit buildings or group quarters.

Comparability—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least $50 worth of agricultural sales or a place of less than 10 acres with at least $250 worth of agricultural sales. Earlier censuses used other definitions. Note that the definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989).

GROSS RENT

Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment. The estimated costs of utilities and fuels are reported on a yearly basis but are converted to monthly figures for the tabulations. Renter units occupied without payment of cash rent are shown separately as "No cash rent" in the tabulations. Gross rent is calculated on a sample basis.

Comparability—Data on gross rent have been collected since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in 1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

HOUSE HEATING FUEL

The data on house heating fuel were obtained from questionnaire item H14, which was asked at occupied housing units. This item was asked on a sample basis. The data show the type of fuel used most to heat the house or apartment.

Utility Gas—Includes gas piped through underground pipes from a central system to serve the neighborhood.

Bottled, Tank, or LP Gas—Includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

Fuel Oil, Kerosene, Etc.—Includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

Wood—Includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, sawmill or construction scraps, or the like.

Solar Energy—Includes heat provided by sunlight which is collected, stored, and actively distributed to most of the rooms.

Other Fuel—Includes all other fuels not specified elsewhere.

No Fuel Used—Includes units that do not use any fuel or that do not have heating equipment.

Comparability—Data on house heating fuel have been collected since 1940. The category, "Solar energy" is new for 1990.

INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside

the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.

The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

A separate question (H23d) determines whether insurance premiums are included in the mortgage payment to the lender(s). This makes it possible to avoid counting these premiums twice in the computations.

Comparability—Data on payment for fire and hazard insurance were collected for the first time in 1980. Flood insurance was not specifically mentioned in the wording of the question in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

KITCHEN FACILITIES

Data on kitchen facilities were obtained from questionnaire item H11, which was asked at both occupied and vacant housing units. A unit has complete kitchen facilities when it has all of the following: (1) an installed sink with piped water, (2) a range, cook top and convection or microwave oven, or cookstove, and (3) a refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Portable cooking equipment is not considered a range or cookstove. An ice box is not considered to be a refrigerator.

Comparability—Data on complete kitchen facilities were collected for the first time in 1970. Earlier censuses collected data on individual components, such as kitchen sink and type of refrigeration equipment. In 1970 and 1980, data for kitchen facilities were shown only for year-round units. In 1990, data are shown for all housing units.

MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

The statistics on meals included in rent are presented for specified renter-occupied and specified vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information, see the discussion under "Contract Rent.")

Comparability—This is a new item in 1990. It is intended to measure "congregate" housing, which generally is considered to be housing units where the rent includes meals and other services, such as transportation to shopping and recreation.

MOBILE HOME COSTS

The data on mobile home costs were obtained from questionnaire item H26, which was asked at owner-occupied mobile homes. This item was asked on a sample basis.

These data include the total yearly costs for personal property taxes, land or site rent, registration fees, and license fees on all owner-occupied mobile homes. The instructions are to not include real estate taxes already reported in question H21.

Costs are estimated as closely as possible when exact costs are not known. Amounts are the total for an entire 12-month billing period, even if they are paid by someone outside the household or remain unpaid.

The data from this item are added to payments for mortgages, real estate taxes, fire, hazard, and flood insurance payments, utilities, and fuels to derive selected monthly owner costs for mobile homes owners.

Comparability—This item is new for 1990.

MORTGAGE PAYMENT

The data on mortgage payment were obtained from questionnaire item H23b, which was asked at owner occupied one-family houses, condominiums, and mobile homes. This item was asked on a sample basis. Question H23b provides the regular monthly amount required to be paid the lender for the first mortgage (deed of trust, contract to purchase, or similar debt) on the property. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood insurance payments are included in

the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

Comparability—Information on mortgage payment was collected for the first time in 1980. It was collected only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, one-family houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions on monthly mortgage payments were asked of all owner-occupied one-family houses, including one-family houses on 10 or more acres. They were also asked at mobile homes, condominiums, and one-family houses with a business or medical office.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from a single question. Two questions were used in 1990; one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages or home equity loans. (For more information, see the discussion under "Second or Junior Mortgage Payment.")

MORTGAGE STATUS

The data on mortgage status were obtained from questionnaire items H23a and H24a, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt. It includes such debt instruments as deeds of trust, trust deeds, contracts to purchase, land contracts, junior mortgages and home equity loans.

A mortgage is considered a first mortgage if it has prior claim over any other mortgage or if it is the only mortgage on the property. All other mortgages, (second, third, etc.) are considered junior mortgages. A home equity loan is generally a junior mortgage. If no first mortgage is reported, but a junior mortgage or home equity loan is reported, then the loan is considered a first mortgage.

In most census data products, the tabulations for "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" usually are shown separately for units "with a mortgage" and for units "not mortgaged." The category "not mortgaged" is comprised of housing units owned free and clear of debt.

Comparability—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied one-family houses on less than 10 acres. Excluded were mobile homes, condominiums, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions were asked of all one-family owner-occupied housing units, including houses on 10 or more acres. They were also asked at mobile homes, condominiums, and houses with a business or medical office.

PERSONS IN UNIT

This item is based on the 100-percent count of persons in occupied housing units. All persons occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

The data on "persons in unit" show the number of housing units occupied by the specified number of persons. The phrase "persons in unit" is used for housing tabulations, "persons in households" for population items. Figures for "persons in unit" match those for "persons in household" for 100-percent data products. In sample products, they may differ because of the weighting process.

Median Persons in Unit—In computing median persons in unit, a whole number is used as the midpoint of an interval; thus, a unit with 4 persons is treated as an interval ranging from 3.5 to 4.5 persons. Median persons is rounded to the nearest hundredth. (For more information on medians, see the discussion under "Derived Measures.")

Persons in Occupied Housing Units—This is the total population minus those persons living in group quarters. "Persons per occupied housing unit" is computed by dividing the population living in housing units by the number of occupied housing units.

PERSONS PER ROOM

"Persons per room" is obtained by dividing the number of persons in each occupied housing unit by the number of rooms in the unit. Persons per room is rounded to the nearest hundredth. The figures shown refer, therefore, to the number of occupied housing units having the specified ratio of persons per room.

Mean Persons Per Room—This is computed by dividing persons in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate underutilization. (For more information on means, see the discussion under "Derived Measures.")

PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

Comparability—The 1990 data on complete plumbing facilities are not strictly comparable with the 1980 data. In 1980, complete plumbing facilities were defined as hot and cold piped water, a bathtub or shower, and a flush toilet in the housing unit for the exclusive use of the residents of that unit. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Of the 2.3 million year-round housing units classified in 1980 as lacking complete plumbing for exclusive use, approximately 25 percent of these units had complete plumbing but the facilities were also used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. In 1970 and 1980, the data on plumbing facilities were shown only for year-round units.

POVERTY STATUS OF HOUSEHOLDS IN 1989

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis. Households are classified below the poverty level when the total 1989 income of the family or of the nonfamily householder is below the appropriate poverty threshold. The income of persons living in the household who are unrelated to the householder is not considered when determining the poverty status of a household, nor does their presence affect the household size in determining the appropriate poverty threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and age of the family householder or unrelated individual for one and two-persons households. (For more information, see the discussion of "Poverty Status in 1989" and "Income in 1989" under Population Characteristics.)

REAL ESTATE TAXES

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

Real estate taxes include State, local, and all other real estate taxes even if delinquent, unpaid, or paid by someone who is not a member of the household. However, taxes due from prior years are not included. If taxes are paid on other than a yearly basis, the payments are converted to a yearly basis.

The payment for real estate taxes is added to payments for fire, hazard, and flood insurance; utilities and fuels; and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989." A separate question (H23c) determines whether real estate taxes are included in the mortgage payment to the lender(s). This makes it possible to avoid counting taxes twice in the computations.

Comparability—Data for real estate taxes were collected for the first time in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes or trailers, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multiunit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

ROOMS

The data on rooms were obtained from questionnaire item H3, which was asked at both occupied and vacant housing units. The statistics on rooms are in terms of the number of housing units with a specified number of rooms. The intent of this question is to count the number of whole rooms used for living purposes.

For each unit, rooms include living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodger's rooms. Excluded are strip or pullman kitchens, bathrooms, open porches, balconies, halls or foyers, half-rooms, utility rooms, unfinished attics or basements, or other unfinished space used for storage. A partially divided room is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets.

Median Rooms—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging

from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

Aggregate Rooms—To calculate aggregate rooms, an arbitrary value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—Data on rooms have been collected since 1940. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

SECOND OR JUNIOR MORTGAGE PAYMENT

The data on second or junior mortgage payments were obtained from questionnaire items H24a and H24b, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. Question H24a asks whether a second or junior mortgage or a home equity loan exists on the property. Question H24b provides the regular monthly amount required to be paid to the lender on all second or junior mortgages and home equity loans. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

All mortgages other than first mortgages are classified as "junior" mortgages. A second mortgage is a junior mortgage that gives the lender a claim against the property that is second to the claim of the holder of the first mortgage. Any other junior mortgage(s) would be subordinate to the second mortgage. A home equity loan is a line of credit available to the borrower that is secured by real estate. It may be placed on a property that already has a first or second mortgage, or it may be placed on a property that is owned free and clear.

If the respondents answered that no first mortgage existed, but a second mortgage did (as in the above case with a home equity loan), a computer edit assigned the unit a first mortgage and made the first mortgage monthly payment the amount reported in the second mortgage. The second mortgage data were then made "No" in question H24a and blank in question H24b.

Comparability—The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Two questions were used in 1990: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from questionnaire items H20 through H26 for a sample of owner-occupied one-family houses, condominiums, and mobile homes. Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second or junior mortgages, and home equity loans); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). It also includes, where appropriate, the monthly condominium fee for condominiums and mobile home costs (personal property taxes, site rent, registration fees, and license fees) for mobile homes.

In certain tabulations, selected monthly owner costs are presented separately for specified owner-occupied housing units (owner-occupied one-family houses on fewer than 10 acres without a business or medical office on the property), owner-occupied condominiums, and owner-occupied mobile homes. Data usually are shown separately for units "with a mortgage" and for units "not mortgaged."

Median Selected Monthly Owner Costs—This measure is rounded to the nearest whole dollar.

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The 1990 tabulations of selected monthly owner costs for specified owner-occupied housing units are virtually identical to 1980, the primary difference was the amounts of the first and second mortgages were collected in separate questions in 1990, while the amounts were collected in a single question in 1980. The component parts of the item were tabulated for mobile homes and condominiums for the first time in 1990.

In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

The information on selected monthly owner costs as a percentage of household income in 1989 is the computed ratio of selected monthly owner costs to monthly household income in 1989. The ratio was computed separately for each unit and rounded to the nearest whole percentage. The data are tabulated separately for specified owner-occupied units, condominiums, and mobile homes.

Separate distributions are often shown for units "with a mortgage" and for units "not mortgaged." Units occupied by households reporting no income or a net loss in 1989 are included in the "not computed" category. (For more information, see the discussion under "Selected Monthly Owner Costs.")

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The tabulations of "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for specified owner-occupied housing units are comparable to 1980.

SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

Comparability—Data on sewage disposal have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

SOURCE OF WATER

The data on source of water were obtained from questionnaire item H15, which was asked at both occupied and vacant housing units. Housing units may receive their water supply from a number of sources. A common source supplying water to five or more units is classified as a "Public system or private company." The water may be supplied by a city, county, water district, water company, etc., or it may be obtained from a well which supplies water to five or more housing units. If the water is supplied from a well serving four or fewer housing units, the units are classified as having water supplied by either an "Individual drilled well" or an "Individual dug well." Drilled wells or small diameter wells are usually less than 1-1/2 feet in diameter. Dug wells are usually larger than 1-1/2 feet wide and generally hand dug. The category, "Some other source" includes water obtained from springs, creeks, rivers, lakes, cisterns, etc.

Comparability—Data on source of water have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

TELEPHONE IN HOUSING UNIT

The data on telephones were obtained from questionnaire item H12, which was asked at occupied housing units. This item was asked on a sample basis. A telephone must be inside the house or apartment for the unit to be classified as having a telephone. Units where the respondent uses a telephone located inside the building but not in the respondent's living quarters are classified as having no telephone.

Comparability—Data on telephones in 1980 are comparable to 1990. The 1960 and 1970 censuses collected data on telephone availability. A unit was classified as having a telephone available if there was a telephone number on which occupants of the unit could be reached. The telephone could have been in another unit, in a common hall, or outside the building.

TENURE

The data for tenure were obtained from questionnaire item H4, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

Owner Occupied—A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. The owner or co-owner must live in the unit and usually is the person listed in column 1 of the questionnaire. The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement. The unit is also considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.

A housing unit is "Owned by you or someone in this household free and clear (without a mortgage)" if there is no mortgage or other similar debt on the house, apartment, or mobile home including units built on leased land if the unit is owned outright without a mortgage. Although owner-occupied units are divided between mortgaged and owned free and clear on the questionnaire, census data products containing 100-percent data show only total owner-occupied counts. More extensive mortgage information was collected on the long-form questionnaire and are shown in census products containing sample data. (For more information, see the discussion under "Mortgage Status.")

Renter Occupied—All occupied housing units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied. "No cash rent" units are separately identified in the rent tabulations. Such units

are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer. Housing units on military bases also are classified in the "No cash rent" category. "Rented for cash rent" includes units in continuing care, sometimes called life care arrangements. These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

Comparability—Data on tenure have been collected since 1890. In 1970, the question on tenure also included a category for condominium and cooperative ownership. In 1980, condominium units and cooperatives were dropped from the tenure item, and since 1980, only condominium units are identified in a separate question.

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

UNITS IN STRUCTURE

The data on units in structure (also referred to as "type of structure") were obtained from questionnaire item H2, which was asked at all housing units. A structure is a separate building that either has open spaces on all sides or is separated from other structures by dividing walls that extend from ground to roof. In determining the number of units in a structure, all housing units, both occupied and vacant, are counted. Stores and office space are excluded.

The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential buildings.

1-Unit, Detached—This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached even if they have an adjoining shed or garage. A one-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes or trailers to which one or more permanent rooms have been added or built also are included.

1-Unit, Attached—This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses attached to nonresidential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.

2 or More Units—These are units in structures containing 2 or more housing units, further categorized as units in structures with 2, 3 or 4, 5 to 9, 10 to 19, 20 to 49, and 50 or more units.

Mobile Home or Trailer—Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes or trailers used only for business purposes or for extra sleeping space and mobile homes or trailers for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory.

Other—This category is for any living quarters occupied as a housing unit that does not fit the previous categories. Examples that fit this category are houseboats, railroad cars, campers, and vans.

Comparability—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

USUAL HOME ELSEWHERE

The data for usual home elsewhere are obtained from questionnaire item B, which was completed by census employees. A housing unit temporarily occupied at the time of enumeration entirely by persons with a usual residence elsewhere is classified as vacant. The occupants are classified as having a "Usual home elsewhere" and are counted at the address of their usual place of residence. Typical examples are people in a vacation home, persons renting living quarters temporarily for work, and migrant workers.

Limitation of the Data—Evidence from previous censuses suggests that in some areas enumerators marked units as "vacant—usual home elsewhere" when they should have marked "vacant—regular."

Comparability—Data for usual home elsewhere was tabulated for the first time in 1980.

UTILITIES

The data on utility costs were obtained from questionnaire items H20a through H20d, which were asked of occupied housing units. These items were asked on a sample basis.

Questions H20a through H20d asked for the yearly cost of utilities (electricity, gas, water) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these yearly amounts are divided by 12 to derive the average monthly cost and are then included in the computation of "Gross Rent," "Gross Rent as a Percentage of Household Income in 1989," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

Costs are recorded if paid by or billed to occupants, a welfare agency, relatives, or friends. Costs that are paid by landlords, included in the rent payment, or included in condominium or cooperative fees are excluded.

Limitation of the Data—Research has shown that respondents tended to overstate their expenses for electricity and gas when compared to utility company records. There is some evidence that this overstatement is reduced when yearly costs are asked rather than monthly costs. Caution should be exercised in using these data for direct analysis because costs are not reported for certain kinds of units such as renter-occupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

Comparability—The data on utility costs have been collected since 1980 for owner-occupied housing units, and since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

VACANCY STATUS

The data on vacancy status were obtained from questionnaire item C1, which was completed by census enumerators. Vacancy status and other characteristics of vacant units were determined by enumerators obtaining information from landlords, owners, neighbors, rental agents, and others. Vacant units are subdivided according to their housing market classification as follows:

For Rent—These are vacant units offered "for rent," and vacant units offered either "for rent" or "for sale."

For Sale Only—These are vacant units being offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only."

Rented or Sold, Not Occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of enumeration, or if the unit has recently been sold but the new owner has not yet moved in, the vacant unit is classified as "rented or sold, not occupied."

For Seasonal, Recreational, or Occasional Use—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year.

Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

For Migrant Workers—These include vacant units intended for occupancy by migratory workers employed in farm work during the crop season. (Work in a cannery, a freezer plant, or a food-processing plant is not farm work.)

Other Vacant—If a vacant unit does not fall into any of the classifications specified above, it is classified as "other vacant." For example, this category includes units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner.

Homeowner Vacancy Rate—This is the percentage relationship between the number of vacant units for sale and the total homeowner inventory. It is computed by dividing the number of vacant units for sale only by the sum of the owner-occupied units and the number of vacant units that are for sale only.

Rental Vacancy Rate—This is the percentage relationship of the number of vacant units for rent to the total rental inventory. It is computed by dividing the number of vacant units for rent by the sum of the renter-occupied units and the number of vacant units for rent.

Comparability—Data on vacancy status have been collected since 1940. For 1990, the category, "seasonal/ recreational/ occasional use" combined vacant units classified in 1980 as "seasonal or migratory" and "held for occasional use." Also, in 1970 and 1980, housing characteristics generally were presented only for year-round units. In 1990, housing characteristics are shown for all housing units.

VALUE

The data on value (also referred to as "price asked" for vacant units) were obtained from questionnaire item H6, which was asked at housing units that were owned, being bought, or vacant for sale at the time of enumeration. Value is the respondent's estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was

asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property.

Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale housing units. Specified owner-occupied and specified vacant-for-sale housing units include only one-family houses on fewer than 10 acres without a business or medical office on the property. The data for "specified units" exclude mobile homes, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings.

Median and Quartile Value—The median divides the value distribution into two equal parts. Quartiles divide the value distribution into four equal parts. These measures are rounded to the nearest hundred dollars. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Value—To calculate aggregate value, the amount assigned for the category "Less than $10,000" is $9,000. The amount assigned to the category "$500,000 or more" is $600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—In 1980, value was asked only at owner-occupied or vacant-for-sale one-family houses on fewer than 10 acres with no business or medical office on the property and at all owner-occupied or vacant-for-sale condominium housing units. Mobile homes were excluded. Value data were presented for specified owner-occupied housing units, specified vacant-for-sale-only housing units, and owner-occupied condominium housing units.

In 1990, the question was asked at all owner-occupied or vacant-for-sale-only housing units with no exclusions. Data presented for specified owner-occupied and specified vacant-for-sale-only housing units will include one-family condominium houses but not condominiums in multi-unit structures since condominium units are now identified only in long-form questionnaires.

For 1990, quartiles have been added because the range of values and rents in the United States has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

VEHICLES AVAILABLE

The data on vehicles available were obtained from questionnaire item H13, which was asked at occupied housing units. This item was asked on a sample basis. These data show the number of households with a specified number of passenger cars, vans, and pickup or panel trucks of one-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for one month or more, company vehicles, and police and government vehicles are included if kept at home and used for nonbusiness purposes. Dismantled or immobile vehicles are excluded. Vehicles kept at home but used only for business purposes also are excluded.

Vehicles Per Household—This is computed by dividing aggregate vehicles available by the number of occupied housing units.

Limitation of the Data—The 1980 census evaluations showed that the number of automobiles was slightly overreported; the number of vans and trucks slightly underreported. The statistics do not measure the number of vehicles privately owned or the number of households owning vehicles.

Comparability—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from questionnaire item H8, which was asked at occupied housing units. This item was asked on a sample basis. These data refer to the year of the latest move by the householder. If a householder moved back into a housing unit he or she previously occupied, the year of the latest move was reported. If the householder moved from one apartment to another within the same building, the year the householder moved into the present apartment was reported. The intent is to establish the year the present occupancy by the householder began. The year that the householder moved in is not necessarily the same year other members of the household moved, although in the great majority of cases an entire household moves at the same time.

Comparability—In 1960 and 1970, this question was asked of every person and included in population reports. This item in housing tabulations refers to the year the householder moved in. In 1980 and 1990, the question was asked only of the householder.

YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on

a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category "1989 or March 1990" was used. For a houseboat or a mobile home or trailer, the manufacturer's model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

Median Year Structure Built—The median divides the distribution into two equal parts. The median is rounded to the nearest calendar year. Median age of housing can be obtained by subtracting median year structure built from 1990. For example, if the median year structure built is 1957, the median age of housing in that area is 33 years (1990 minus 1957).

Limitation of the Data—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially "Built in 1939 or earlier." The introduction of the "Don't know" category (see the discussion on "Comparability") may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

Comparability—Data on year structure built were collected for the first time in the 1940 census. Since then, the response categories have been modified to accommodate the 10-year period between each census. In 1990, the category, "Don't Know," was added in an effort to minimize the response error mentioned in the paragraph above on limitation of the data.

DERIVED MEASURES

Census data products include various derived measures, such as medians, means, and percentages, as well as certain rates and ratios. Derived measures that round to less than 0.1 are not shown but indicated as zero. In printed reports, zero is indicated by a dash (–).

Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two known values. "Pareto interpolation" is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than $2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum of a group of numerical items (or aggregate) by the total number of items. Aggregates are used in computing mean values. For example, mean family income is obtained by dividing the aggregate of all income reported by persons in families by the total number of families. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

In reports, if the median falls within the upper interval of the tabulation distribution, the median is shown as the initial value of the interval followed by a plus sign (+); if within the lower interval, the median is shown as the upper value of the category followed by a minus sign (–). For summary tape files, if the median falls within the upper or lower interval, it is set to a specified value. (Additional information on medians is included in the separate explanations of many population and housing subjects.)

Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1) subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

Quartile

This measure divides a distribution into four equal parts. The first quartile (or lower quartile) is the value that defines the upper limit of the lowest one-quarter of the cases. The second quartile is the median. The third quartile (or upper quartile) defines the lower limit of the

upper one-quarter of the cases in the distribution. The difference between the upper and lower quartiles is called the interquartile range. This interquartile range is less affected by wide variations than is the mean. Quartiles are presented for certain financial characteristics such as housing value and rent.

APPENDIX C.
Accuracy of the Data

CONTENTS

Confidentiality of the Data C–2
Editing of Unacceptable Data C–9
Errors in the Data C–2
Estimation Procedure C–5
Sample Design C–1

INTRODUCTION

The data contained in this data product are based on the 1990 census sample. The data are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

SAMPLE DESIGN

Every person and housing unit in the United States was asked certain basic demographic and housing questions (for example, race, age, marital status, housing value, or rent). A sample of these persons and housing units was asked more detailed questions about such items as income, occupation, and housing costs in addition to the basic demographic and housing information. The primary sampling unit for the 1990 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Persons in group quarters were sampled at a 1-in-6 rate.

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties, all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin. Housing units in census tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-6 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

In list/enumerate areas (about 5 percent of the population), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an assigned area and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. For all governmental units with fewer than 2,500 persons in list/enumerate areas, a 1-in-2 sampling rate was used. All other list/enumerate areas were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas, and Alaska Native villages were sampled according to the same criteria as other governmental units, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1980 census. Trust lands were sampled at the same rate as their associated American Indian reservations. Census designated places in Hawaii were sampled at the same rate as governmental units because the Census Bureau does not recognize incorporated places in Hawaii.

The purpose of using variable sampling rates was to provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the

Nation, approximately one out of every six housing units in the Nation was included in the 1990 census sample.

CONFIDENTIALITY OF THE DATA

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

The confidentiality edit is implemented by selecting a small subset of individual households from the internal sample data files and blanking a subset of the data items on these household records. Responses to those data items were then imputed using the same imputation procedures that were used for nonresponse. A larger subset of households is selected for the confidentiality edit for small areas to provide greater protection for these areas. The editing process is implemented in such a way that the quality and usefulness of the data were preserved.

ERRORS IN THE DATA

Since statistics in this data product are based on a sample, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The sample estimate also would differ from other samples of housing units, persons within those housing units, and persons living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a sample estimate is a measure of the variation among the estimates from all the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. Described below is the method of calculating standard errors and confidence intervals for the data in this product.

In addition to the variability which arises from the sampling procedures, both sample data and 100-percent data are subject to nonsampling error. Nonsampling error may be introduced during any of the various complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

Totals and Percentages—Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know the basic standard error for the characteristic (given in table A or B) that would result under a simple random sample design (of persons, households, or housing units) and estimation technique; the design factor for the particular characteristic estimated (given in table C); and the number of persons or housing units in the tabulation area and the percent of these in the sample. For machine-readable products, the percent-in-sample is included in a data matrix on the file for each tabulation area. In printed reports, the percent-in-sample is provided in data tables at the end of the statistical tables that compose the report. The design factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1990 census.

The steps given below should be used to calculate the standard error of an estimate of a total or a percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator where the numerator is a subset of the denominator. For example, the proportion of Black teachers is the ratio of Black teachers to all teachers.

1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.

2. Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this

area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.

3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent- in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or estimated totals that are close to the size of the tabulation areas to which they correspond. Nevertheless, these estimated totals and percentages still are subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate. For estimated percentages that are less than 2 or greater than 98, use the basic standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use a basic standard error of 16.

An illustration of the use of the tables is given in the section entitled "Use of Tables to Compute Standard Errors."

Sums and Differences—The standard errors estimated from these tables are not directly applicable to sums of and differences between two sample estimates. To estimate the standard error of a sum or difference, the tables are to be used somewhat differently in the following three situations:

1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.

2. For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors:

$$SE_{\hat{x}} \text{ and } SE_{\hat{y}} \text{ of estimates } \hat{X} \text{ and } \hat{Y}:$$

$$SE_{(\hat{X}+\hat{Y})} = SE_{(\hat{X}-\hat{Y})} = \sqrt{(SE_{\hat{X}})^2 + (SE_{\hat{Y}})^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The standard error for estimates not based on the 1990 census sample must be obtained from an appropriate source outside of this appendix.

3. For the differences between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest. For example, to determine the estimate of non-Black teachers, one may subtract the estimate of Black teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black teachers apply the above formula directly.

Ratios—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

1. If the ratio is a proportion, then follow the procedure outlined for "Totals and Percentages."

2. If the ratio is not a proportion, then approximate the standard error using the formula below.

$$SE_{(\hat{X}/\hat{Y})} = \frac{\hat{X}}{\hat{Y}}\sqrt{\frac{(SE_{\hat{X}})^2}{\hat{X}^2} + \frac{(SE_{\hat{Y}})^2}{\hat{Y}^2}}$$

Medians—For the standard error of the median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as N/2). Treat N/2 as if it were an ordinary estimate and obtain its standard error as instructed above. Compute the desired confidence interval about N/2. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about N/2. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, continue cumulating frequencies until the sum equals or exceeds the count in excess of the upper limit of the interval about N/2. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

When interpolation is required in the upper open-ended interval of a distribution to obtain a confidence bound, use 1.5 times the lower limit of the open-ended confidence interval as the upper limit of the open-ended interval.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain

the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1990 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples;

2. Approximately 90 percent of the intervals from 1.645 times the estimated standard error below the estimate to 1.645 times the estimated standard error above the estimate would contain the average result from all possible samples.

3. Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the 100-percent value).

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. This is done by first computing the ratio, sum, or difference, then obtaining the standard error of the ratio, sum, or difference (using the formulas given earlier), and finally forming a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this appendix do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.

A standard sampling theory text should be helpful if the user needs more information about confidence intervals and nonsampling errors.

Use of Tables to Compute Standard Errors

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percent-in-sample table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

The basic standard error for the estimated total 9,948 may be obtained from table A or from the formula given below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. Suppose that the total population of City A was 21,220. The formula for the basic standard error, SE, is

$$SE(9,948) = \sqrt{5(9,948)\,(1 - 9,948/2\,1,220)}$$

$$= 163 \text{ persons.}$$

The standard error of the estimated 9,948 persons 16 years and over who were in the civilian labor force is found by multiplying the basic standard error 163 by the design factor, 1.1 from table C. This yields an estimated standard error of 179 for the total number of persons 16 years and over in City A who were in the civilian labor force.

The estimated percent of persons 16 years and over who were in the civilian labor force in City A is 62.6. From table B, the unadjusted standard error is found to be approximately 0.85 percentage points. The standard error for the estimated 62.6 percent of persons 16 years and over who were in the civilian labor force is 0.85 x 1.1 = 0.94 percentage points.

A note of caution concerning numerical values is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than two decimal places when the estimated standard error is one percentage point (i.e., 1.00) or more.

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90

percent confidence interval for this estimated total is found to be:

$$[9{,}948 - 1.645(179)] \text{ to } [9{,}948 + 1.645(179)]$$

or

9,654 to 10,242

One can say, with about 90 percent confidence, that this interval includes the value that would have been obtained by averaging the results from all possible samples.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86 percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is 0.86 x 1.1 = 0.95 percentage points.

Now suppose that one wished to obtain the standard error of the difference between City A and City B of the percentages of persons who were 16 years and over and who were in the civilian labor force. The difference in the percentages of interest for the two cities is:

$$62.6 - 55.9 = 6.7 \text{ percent.}$$

Using the results of the previous example:

$$SE(6.7) = \sqrt{(SE(62.6))^2 + (SE(55.9))^2} = \sqrt{(0.94)^2 + (0.95)^2}$$

$$= 1.34 \text{ percentage points}$$

The 90 percent confidence interval for the difference is formed as before:

$$[6.70 - 1.645(1.34)] \text{ to } [6.70 + 1.645(1.34)]$$

or

4.50 to 8.90

One can say with 90 percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if we can calculate the standard error of a ratio estimate then we can form a confidence interval around the ratio. Suppose that one wished to obtain the standard error of the ratio of the estimate of persons who were 16 years and over and who were in the civilian labor force in City A to the estimate of persons who were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates of interest is:

$$9948/9314 = 1.07$$

$$SE(1.07) = \left(\frac{9948}{9314}\right)\sqrt{\frac{1\ 79^2}{(9948)^2} + \frac{188^2}{(9314)^2}}$$

$$= .029$$

Using the results above, the 90 percent confidence interval for this ratio would be:

$$[1.07 - 1.645(.029)] \text{ to } [1.07 + 1.645(.029)]$$

or

1.02 to 1.12

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit. The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas generally were formed of contiguous geographic units which agreed closely with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas never crossed State or county boundaries. In small counties with a sample count below 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in four stages. For persons, the first stage applied 17 household-type groups. The second stage used two groups: sampling rate of 1-in-2; sampling rate less than 1-in-2. The third stage used the dichotomy householders/nonhouseholders. The fourth stage applied 180 aggregate age-sex-race-Hispanic origin categories. The stages were as follows:

PERSONS

STAGE I: TYPE OF HOUSEHOLD

Group	
	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters

STAGE II: SAMPLING RATES

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: HOUSEHOLDER/ NONHOUSEHOLDER

1	Householder
2	Nonhouseholder

STAGE IV: AGE/ SEX/ RACE/ HISPANIC ORIGIN

Group	
	White
	Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3	15 to 19 years
4	20 to 24 years
5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
	Female
10-18	Same age categories as groups 1 through 9.
	Persons Not of Hispanic Origin
19-36	Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/ sex/ Hispanic origin categories as groups 1 through 36.

STAGE II: SAMPLING RATES

	Asian or Pacific Islander
73-108	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
	American Indian, Eskimo, or Aleut
109-144	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
	Other Race (includes those races not listed above)
145-180	Same age/ sex/ Hispanic origin categories as groups 1 through 36.

Within a weighting area, the first step in the estimation procedure was to assign an initial weight to each sample person record. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure, prior to iterative proportional fitting, was to combine categories in each of the four estimation stages, when needed to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the fourth stage, an additional criterion concerning the number of complete count persons in each race/ Hispanic origin category was applied.

As the final step, the initial weights underwent four stages of ratio adjustment applying the grouping procedures described above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight.

In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Next, at stage III, the stage II weights were adjusted by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. Finally, at stage IV, the stage III weights were adjusted by the ratio of the complete census count to the sum of the stage III weights for sample persons in each stage IV group. The four stages of ratio adjustment were performed two times (two iterations) in the order given above. The weights obtained from the second iteration for stage IV were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight of the persons in a particular group was 7.25 then 1/ 4 of the sample persons in this group were randomly assigned a weight of 8, while the remaining 3/ 4 received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons, except that vacant units were treated differently. The occupied housing unit ratio estimation procedure was done in four stages, and the vacant housing unit ratio estimation procedure was done in a single stage. The first stage for occupied housing units applied 16 household type categories, while the second stage used the two sampling categories described above for persons. The third stage applied three units-in-structure categories; i.e. single units, multi-unit less than 10 and multi-unit 10 or more. The fourth stage could potentially use 200 tenure-race-Hispanic origin-value/rent groups. The stages for ratio estimation for housing units were as follows:

OCCUPIED HOUSING UNITS

STAGE I: TYPE OF HOUSEHOLD

Group	
	Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit

STAGE II: SAMPLING RATE CATEGORY

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: UNITS IN STRUCTURE

1	Single unit structure
2	Multi-unit structure consisting of fewer than 10 individual units
3	Multi-unit structure consisting of 10 or more individual units

STAGE IV: TENURE/RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT

Group	
	Owner
	White Householder
	Householder of Hispanic Origin
	Value
1	Less than $20,000
2	$20,000 to $39,999
3	$40,000 to $59,999
4	$60,000 to $79,999

STAGE IV: TENURE/RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT—Con.

5	$80,000 to $99,999
6	$100,000 to $149,999
7	$150,000 to $249,999
8	$250,000 to $299,999
9	$300,000 or more
10	Other[1]
	Householder Not of Hispanic Origin
11-20	Same value categories as groups 1 through 10
	Black Householder
21-40	Same Hispanic origin/value categories as groups 1 through 20
	Asian or Pacific Islander Householder
41-60	Same Hispanic origin/value categories as groups 1 through 20
	American Indian, Eskimo, or Aleut Householder
61-80	Same Hispanic origin/value categories as groups 1 through 20
	Householder of Other Race
81-100	Same Hispanic origin/value categories as groups 1 through 20
	Renter
	White Householder
	Householder of Hispanic origin
	Rent
101	Less than $100
102	$100 to $199
103	$200 to $299
104	$300 to $399
105	$400 to $499
106	$500 to $599
107	$600 to $749
108	$750 to $999
109	$1,000 or more
110	No cash rent
	Householder Not of Hispanic Origin
111-120	Same rent categories as groups 101 through 110
	Black Householder
121-140	Same Hispanic origin/rent categories as groups 101 through 120

[1]Value of units in this category results from other factors besides housing value alone, for example, inclusion of more than 10 acres of land, or presence of a business establishment on the premises.

STAGE IV: TENURE/ RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/ VALUE OR RENT—Con.

	Asian or Pacific Islander Householder
141-160	Same Hispanic origin/ rent categories as groups 101 through 120
	American Indian, Eskimo, or Aleut Householder
161-180	Same Hispanic origin/ rent categories as groups 101 through 120
	Householder of Other Race
181-200	Same Hispanic origin/ rent categories as groups 101 through 120
	Vacant Housing Units
1	Vacant for rent
2	Vacant for sale
3	Other vacant

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and if the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial, unadjusted weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

Control of Nonsampling Error

As mentioned earlier, both sample and 100-percent data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, was contingent upon how well the instructions actually were carried out during the census. As part of the 1990 census evaluation program, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage—It is possible for some households or persons to be missed entirely by the census. The undercoverage of persons and housing units can introduce biases into the data.

Several coverage improvement programs were implemented during the development of the census address list and census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 census and results from the 1990 census testing cycle. In developing and updating the census address list, the Census Bureau used a variety of specialized procedures in different parts of the country.

- In the large urban areas, the Census Bureau purchased and geocoded address lists. Concurrent with geocoding, the United States Postal Service (USPS) reviewed and updated this list. After the postal check, census enumerators conducted a dependent canvass and update operation. In the fall of 1989, local officials were given the opportunity to examine block counts of address listings (local review) and identify possible errors. Prior to mailout, the USPS conducted a final review.

- In small cities, suburban areas, and selected rural parts of the country, the Census Bureau created the address list through a listing operation. The USPS reviewed and updated this list, and the Census Bureau reconciled USPS corrections and updated through a field operation. In the fall of 1989, local officials participated in reviewing block counts of address listings. Prior to mailout, the USPS conducted a final review.

- The Census Bureau (rather than the USPS) conducted a listing operation in the fall of 1989 and delivered census questionnaires in selected rural and seasonal housing areas in March of 1990. In some inner-city public housing developments, whose addresses had been obtained via the purchased address list noted above, census questionnaires were also delivered by Census Bureau enumerators.

Coverage improvement programs continued during and after mailout. A recheck of units initially classified as vacant or nonexistent improved further the coverage of persons and housing units. All local officials were given the opportunity to participate in a post-census local review, and census enumerators conducted an additional recanvass. In addition, efforts were made to improve the coverage of unique population groups, such as the homeless and parolees/ probationers. Computer and clerical edits and telephone and personal visit followup also contributed to improved coverage.

More extensive discussion of the programs implemented to improve coverage will be published by the Census Bureau when the evaluation of the coverage improvement program is completed.

Respondent and Enumerator Error—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error, although the questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency, and problems were followed up as necessary.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was monitored carefully. Field staff were prepared for their tasks by using standardized training packages that included hands-on experience in using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error—The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as accurately and clearly as possible. To meet this objective, questionnaires were edited during field data collection operations for consistency, completeness, and acceptability. Questionnaires also were reviewed by census clerks for omissions, certain specific inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable. For some district offices, the initial edit was automated; however, for the majority of the district offices, it was performed by clerks. As a result of this operation, a telephone or personal visit followup was made to obtain missing information. Potential coverage errors were included in the followup, as well as a sample of questionnaires with omissions and/or inconsistencies.

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned using imputation procedures during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, are needed most often when an entry for a given item is lacking or when the information reported for a person or housing unit on that item is inconsistent with other information for that same person or housing unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. The assignment of acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was through substitution; that is, the assignment of a full set of characteristics for a person or housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for the people within the household or the occupants were not listed on the questionnaire, a previously accepted household was selected as a substitute, and the full set of characteristics for the substitute was duplicated. The assignment of the full set of housing characteristics occurred when there was no housing information available. If the housing unit was determined to be occupied, the housing characteristics were assigned from a previously processed occupied unit. If the housing unit was vacant, the housing characteristics were assigned from a previously processed vacant unit.

Table A. **Unadjusted Standard Error for Estimated Totals**

[Based on a 1-in-6 simple random sample]

Estimated Total[1]	Size of publication area[2]													
	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,000,000
50	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-	-	-	-	-	170	230	250	270	270	270	270	270	270
25,000	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75,000	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100,000	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250,000	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500,000	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1,000,000	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	5 480

[1]For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5\ \hat{Y}(1\ \frac{\hat{Y}}{N})}$$

N = Size of area

$\hat{Y}$ = Estimate of characteristic total

[2]The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

Table B. **Unadjusted Standard Error in Percentage Points for Estimated Percentage**

[Based on a 1-in-6 simple random sample]

Estimated Percentage	Base of percentage[1]												
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

[1]For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error. This table should only be used for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{5}{B}\hat{p}(100 - \hat{p})}$$

B = Base of estimated percentage

$\hat{p}$ = Estimated percentage

Table C. **Standard Error Design Factors—United States**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.7	1.0	0.8
Place of birth	2.2	2.1	1.2	1.1
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.2	2.2	1.4	1.1
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Alabama**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.6	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.4	2.1	1.2	1.0
Place of birth	2.6	2.3	1.4	1.0
Citizenship	1.6	1.6	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.1	2.1	1.2	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.3	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Alaska**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.6
Children ever born	2.4	2.0	1.4	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.8	1.2	1.2
Place of birth	1.6	1.5	1.0	0.9
Citizenship	1.7	1.5	1.0	0.8
Residence in 1985	2.0	1.8	1.1	1.0
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.2	1.2
Household type	1.3	1.1	0.7	0.6
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.8
Subfamily type and presence of children	1.1	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.3	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.5
Place of work	1.5	1.2	0.8	0.5
Means of transportation to work	1.4	1.2	0.7	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.3	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. Standard Error Design Factors—Arkansas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.6	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.2	1.9	1.1	0.9
Place of birth	2.3	1.9	1.2	0.9
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.1	1.9	1.0	0.8
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.6	0.8	0.7
Type of residence (urban/rural)	2.7	2.7	1.2	0.7
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	1.0	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.1	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Arizona**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.5
Household type and relationship	1.4	1.1	0.7	0.6
Children ever born	2.7	2.3	1.6	1.4
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.1	1.8	1.1	1.0
Place of birth	1.8	1.5	1.0	0.8
Citizenship	1.9	1.5	1.0	0.8
Residence in 1985	2.1	1.8	1.1	0.9
Year of entry	1.5	1.2	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.7	0.5
School enrollment	1.9	1.5	1.0	0.8
Type of residence (urban/rural)	2.4	2.1	0.9	0.7
Household type	1.4	1.1	0.7	0.6
Family type	1.3	1.0	0.6	0.5
Group quarters	1.1	1.0	1.0	1.0
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.7	0.5
Place of work	1.6	1.2	0.8	0.5
Means of transportation to work	1.5	1.2	0.7	0.5
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.8	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.3	1.1	0.6	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.4
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.0	0.6	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.3	1.1	0.5	0.4
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.0	0.6	0.6
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.6
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. Standard Error Design Factors—California

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.6	0.4
Household type and relationship	1.4	1.1	0.7	0.5
Children ever born	2.6	2.3	1.4	1.1
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.3	1.9	1.1	0.7
Place of birth	1.9	1.6	1.0	0.7
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.1	1.8	1.1	0.8
Year of entry	1.7	1.4	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.4	1.2	0.7	0.5
School enrollment	1.8	1.5	1.0	0.7
Type of residence (urban/rural)	2.5	2.2	1.7	0.8
Household type	1.4	1.1	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.2	1.2	1.2	0.8
Subfamily type and presence of children	1.3	1.1	0.6	0.4
Employment status	1.3	1.1	0.6	0.5
Industry	1.3	1.2	0.7	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.1	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.6	1.3	0.8	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.2	0.7	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.5	1.2	0.7	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.6	1.3	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.7	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.4	1.1	0.6	0.4
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Colorado**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.5	2.2	1.4	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.1	0.8
Place of birth	1.8	1.6	1.0	0.8
Citizenship	1.8	1.4	1.0	0.7
Residence in 1985	1.9	1.7	1.1	0.8
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	1.0	0.7
Type of residence (urban/rural)	2.1	2.1	1.8	1.2
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.6
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.8	0.6
Time leaving home to go to work	1.3	1.1	0.7	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.8	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.9	0.4
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.4	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Connecticut**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.5
Household type and relationship	1.3	1.0	0.5	0.5
Children ever born	2.5	2.1	1.2	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	1.9	1.6	0.8	0.7
Place of birth	2.0	1.7	0.9	0.8
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.4	0.8	0.7
Type of residence (urban/rural)	2.1	1.8	1.0	0.8
Household type	1.3	1.0	0.5	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.5	1.5	1.5	1.5
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.5	0.5
Class of worker	1.5	1.3	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.6
Place of work	1.5	1.3	0.6	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.6	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Delaware**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.7	1.0	0.8
Place of birth	1.9	1.6	1.0	0.7
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	1.0	0.7
Type of residence (urban/rural)	2.4	1.9	0.9	0.7
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.2	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.6
Place of work	1.5	1.3	0.8	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	0.9	0.5	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—District of Columbia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.4	1.1	0.7	0.6
Household type and relationship	1.4	1.2	0.7	0.6
Children ever born	2.7	2.1	1.3	1.1
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.4	1.7	1.2	1.0
Place of birth	1.9	1.4	0.9	0.8
Citizenship	2.1	1.7	1.1	0.9
Residence in 1985	2.1	1.8	1.0	0.9
Year of entry	1.5	1.3	0.7	0.6
Language spoken at home and ability to speak English	1.9	1.6	0.9	0.8
Educational attainment	1.4	1.2	0.7	0.6
School enrollment	2.0	1.5	1.0	0.8
Type of residence (urban/rural)	1.2	1.0	0.6	0.5
Household type	1.4	1.2	0.7	0.6
Family type	1.2	1.1	0.6	0.5
Group quarters	1.3	0.9	0.7	0.5
Subfamily type and presence of children	1.3	1.2	0.7	0.6
Employment status	1.4	1.2	0.7	0.6
Industry	1.3	1.2	0.7	0.6
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.1	0.7	0.5
Number of workers in family	1.4	1.3	0.7	0.6
Place of work	1.7	1.4	0.8	0.7
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.4	1.1	0.7	0.6
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.2	0.7	0.6
Type of income in 1989	1.5	1.2	0.7	0.6
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.8	1.4	0.9	0.8
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.0	0.6	0.5
Condominium status	1.3	1.1	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.3	1.1	0.6	0.5
Kitchen facilities	1.2	1.1	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.7	0.6
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.3	1.2	0.7	0.6
Telephone in housing unit	1.3	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.7	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.1	0.6	0.5

Table C. **Standard Error Design Factors—Florida**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.4	1.5	1.5
Work disability and mobility limitation status	1.3	1.1	0.6	0.5
Ancestry	2.1	1.8	1.0	0.8
Place of birth	1.8	1.5	0.9	0.8
Citizenship	1.9	1.6	1.0	0.8
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.3	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.9	1.6	1.0	0.7
Type of residence (urban/ rural)	2.2	2.2	1.0	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.3	1.1	0.6	0.5
Group quarters	1.2	1.2	1.2	1.2
Subfamily type and presence of children	1.3	1.0	0.6	0.5
Employment status	1.3	1.1	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.6	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.2	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.3	1.1	0.6	0.5
Family income in 1989	1.3	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	1.0	0.7	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.4
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.3	1.1	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Georgia**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.5	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.1	1.1	1.0
Place of birth	2.3	2.2	1.3	1.1
Citizenship	1.9	1.6	0.9	0.8
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.3	1.3
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.8	0.8	0.7
Subfamily type and presence of children	1.3	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.6
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Hawaii**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.5	1.3	1.1
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.5	2.3	1.3	1.1
Place of birth	2.0	2.0	1.0	0.8
Citizenship	1.7	1.5	0.9	0.7
Residence in 1985	2.1	2.0	1.0	0.9
Year of entry	1.5	1.3	0.8	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.2	0.7	0.6
School enrollment	1.8	1.6	0.9	0.8
Type of residence (urban/rural)	2.4	2.4	1.2	1.0
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.5	0.4
Subfamily type and presence of children	1.2	1.1	0.6	0.5
Employment status	1.3	1.1	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.8	0.6
Hours per week and weeks worked in 1989	1.2	1.1	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.6	1.4	0.8	0.7
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.2	0.7	0.6
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.2	0.7	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.3	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.1	0.5	0.4
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.1	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.3	0.6	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.5
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.1	0.6	0.5

Table C. **Standard Error Design Factors—Idaho**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.0	0.9	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.5	2.3	1.6	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.1	0.8
Place of birth	1.8	1.6	1.1	0.8
Citizenship	1.6	1.4	1.0	0.7
Residence in 1985	2.1	1.8	1.2	0.9
Year of entry	1.4	1.1	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.7
Educational attainment	1.2	1.1	0.7	0.5
School enrollment	1.6	1.4	1.0	0.7
Type of residence (urban/rural)	2.9	2.4	2.0	1.4
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.8	0.8
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.1	1.0	0.6	0.5
Industry	1.3	1.1	0.7	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.1	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.9	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.1	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.1	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Illinois**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.1	1.7	0.9	0.8
Place of birth	2.3	2.1	1.2	1.1
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.4	0.8	0.7
Type of residence (urban/rural)	2.3	2.3	1.3	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.0	0.5	0.5
Class of worker	1.5	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.3	0.6	0.6
Means of transportation to work	1.5	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.4	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Indiana**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.5	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.0	1.8	0.9	0.8
Place of birth	2.3	2.1	1.1	1.0
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.8	0.7
Type of residence (urban/rural)	2.7	2.7	1.0	1.0
Household type	1.3	1.0	0.5	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.5	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Iowa**

(Percent of persons or housing units in sample)

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.6	2.4	1.5	1.4
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.8	0.8
Place of birth	2.3	2.2	1.1	1.1
Citizenship	1.7	1.4	0.7	0.7
Residence in 1985	2.0	1.9	0.9	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.7	0.7
Type of residence (urban/rural)	2.1	2.1	0.9	0.9
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.9	0.8	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.3	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.1	0.5	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Kansas

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.3	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.7	1.0	0.8
Place of birth	1.9	1.9	1.2	1.0
Citizenship	1.7	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.8	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.9	0.8
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.7	0.5
Place of work	1.4	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.9	0.5
Source of water, plumbing facilities	1.4	1.2	0.7	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Kentucky**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.8	2.4	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.2	1.9	1.0	0.9
Place of birth	2.5	2.2	1.1	0.9
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.5	2.5	1.1	0.9
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.2	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.1	0.6	0.5
Type of income in 1989	1.3	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.6	0.6
Source of water, plumbing facilities	1.3	1.2	0.7	0.6
Sewage disposal	1.2	1.0	0.6	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. Standard Error Design Factors—Louisiana

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.8	2.6	1.5	1.4
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.3	2.0	1.1	1.0
Place of birth	2.7	2.5	1.4	1.2
Citizenship	1.9	1.6	0.8	0.7
Residence in 1985	2.2	2.0	1.1	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.3	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.5
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.2	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Maine**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.6	2.3	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.0	0.8
Place of birth	2.1	2.0	1.2	1.0
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.8
Type of residence (urban/rural)	2.2	1.9	0.9	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.3	1.3	0.6	0.5
Source of water, plumbing facilities	1.3	1.0	0.6	0.5
Sewage disposal	1.1	0.9	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. Standard Error Design Factors—Maryland

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.1	1.7	1.0	0.8
Place of birth	2.0	1.6	1.0	0.7
Citizenship	1.8	1.5	0.9	0.6
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.3	0.7	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.9	0.6
Type of residence (urban/ rural)	2.1	2.1	1.1	0.8
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.6
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.4	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.3	0.8	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.6	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Massachusetts**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.3	1.1	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.0	1.6	0.8	0.7
Place of birth	2.3	2.1	1.1	0.9
Citizenship	1.9	1.5	0.8	0.7
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.8	0.7
Type of residence (urban/ rural)	2.1	1.8	1.0	1.0
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.5	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.6	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.1	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.4	1.2	0.5	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.3	1.1	0.5	0.5
Vehicles available	1.3	1.2	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Michigan**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.6	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.0	1.6	0.9	0.8
Place of birth	2.4	2.1	1.5	1.2
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/ rural)	2.0	2.0	1.7	1.4
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.5	1.0	0.6	0.5
Source of water, plumbing facilities	1.2	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.4	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Minnesota**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.2	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.8	1.5	0.9	0.8
Place of birth	2.1	1.9	1.3	1.1
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	1.9	1.7	1.1	0.9
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.3	0.8	0.7
Type of residence (urban/rural)	2.9	1.9	1.4	1.1
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.8	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.5	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.1	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	0.9	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.1	1.0	0.6	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Mississippi**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.5
Household type and relationship	1.3	1.2	0.7	0.5
Children ever born	3.0	2.9	1.8	1.5
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.4	2.3	1.2	1.1
Place of birth	2.8	2.8	1.5	1.3
Citizenship	1.9	1.7	0.9	0.7
Residence in 1985	2.2	2.1	1.1	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.2	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.4	2.4	1.7	1.0
Household type	1.3	1.2	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	1.0	1.0	1.0
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.1	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.3	0.7	0.6
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.8	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.1	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.4
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.3	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Missouri**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.4	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.0	1.7	0.9	0.8
Place of birth	2.3	2.1	1.0	1.0
Citizenship	1.8	1.6	0.8	0.7
Residence in 1985	2.1	1.8	1.0	0.8
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.7	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.4	2.4	1.2	0.7
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.6
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.3	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Montana

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.7	0.5
Children ever born	2.6	2.4	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.7	1.6	1.0	0.7
Place of birth	1.9	1.8	1.1	0.9
Citizenship	1.8	1.5	1.0	0.7
Residence in 1985	2.0	1.8	1.1	0.9
Year of entry	1.2	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.4	2.4	1.6	1.1
Household type	1.2	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.8	0.8	0.8
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.4
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.1	0.8	0.6
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Nebraska**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.2	1.1	0.7	0.5
Children ever born	2.5	2.3	1.8	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.6	1.1	0.8
Place of birth	2.1	2.0	1.4	1.1
Citizenship	1.7	1.4	1.0	0.7
Residence in 1985	2.0	1.8	1.2	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.1	2.1	1.5	1.0
Household type	1.2	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	0.9	0.8	0.7	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.6
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.1	1.0	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.5
Sewage disposal	1.0	1.0	0.6	0.4
House heating fuel	1.3	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Nevada

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.6
Children ever born	2.6	2.2	1.3	1.3
Work disability and mobility limitation status	1.3	1.0	0.6	0.5
Ancestry	2.1	1.7	0.9	0.9
Place of birth	1.7	1.5	0.8	0.7
Citizenship	1.8	1.4	0.8	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.5	1.2	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.9	1.4	0.8	0.7
Type of residence (urban/rural)	2.2	2.2	1.7	1.5
Household type	1.3	1.1	0.6	0.6
Family type	1.3	1.0	0.6	0.5
Group quarters	1.1	1.0	1.0	1.0
Subfamily type and presence of children	1.3	1.0	0.6	0.6
Employment status	1.3	1.0	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.6	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.6	1.2	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.5	1.2	0.6	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.3	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.4	1.0	0.5	0.5
Source of water, plumbing facilities	1.5	1.1	0.5	0.4
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.0	0.5	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—New Hampshire**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	1.9	1.6	0.9	0.8
Citizenship	1.8	1.5	0.9	0.8
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.6
School enrollment	1.8	1.5	0.9	0.8
Type of residence (urban/rural)	2.1	1.8	1.0	0.9
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	0.8	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.4	1.2	0.6	0.6
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	0.9	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—New Jersey

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.5	2.1	1.3	1.0
Work disability and mobility limitation status	1.2	1.1	0.5	0.5
Ancestry	2.1	1.7	0.9	0.7
Place of birth	2.0	1.7	1.0	0.8
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.2	1.9	1.0	0.9
Year of entry	1.6	1.3	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.2	1.9	1.4	0.8
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.1	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.3	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.6	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.1	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—New Mexico

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.6
Children ever born	2.9	2.5	1.7	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.4	2.0	1.4	1.2
Place of birth	2.0	1.7	1.3	1.1
Citizenship	1.8	1.5	1.0	0.8
Residence in 1985	2.1	1.9	1.2	1.0
Year of entry	1.4	1.1	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.3	0.8	0.7
Educational attainment	1.3	1.1	0.7	0.6
School enrollment	1.7	1.5	0.9	0.8
Type of residence (urban/rural)	2.6	2.6	1.4	1.4
Household type	1.3	1.1	0.7	0.6
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.7	0.6
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.6
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.6
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.8	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. Standard Error Design Factors—New York

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.4	1.1	0.6	0.5
Children ever born	2.6	2.2	1.3	1.1
Work disability and mobility limitation status	1.3	1.0	0.6	0.5
Ancestry	2.1	1.6	0.9	0.8
Place of birth	2.4	2.4	1.4	1.2
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.3	1.9	1.1	0.9
Year of entry	1.6	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.4	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.1	1.8	1.7	1.5
Household type	1.4	1.1	0.6	0.5
Family type	1.3	1.1	0.6	0.5
Group quarters	1.1	0.8	0.8	0.8
Subfamily type and presence of children	1.3	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.4	1.1	0.6	0.5
Occupation	1.3	1.0	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.3	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.4	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.4	1.1	0.6	0.5
Type of income in 1989	1.5	1.2	0.6	0.5
Household income in 1989	1.3	1.0	0.5	0.5
Family income in 1989	1.3	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.3	0.8	0.7
Poverty status in 1989 (families)	1.3	1.0	0.5	0.5
Armed Forces and veteran status	1.7	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.5	0.5
Condominium status	1.3	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.3	1.1	0.5	0.5
Household income in 1989	1.3	1.0	0.5	0.5
Year structure built	1.3	1.0	0.5	0.5
Rooms, bedrooms	1.3	1.1	0.5	0.5
Kitchen facilities	1.4	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.3	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—North Carolina**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.6	2.5	1.6	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.3	2.0	1.0	0.9
Place of birth	2.4	2.2	1.1	1.1
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.9	1.0	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.3	2.2	1.5	0.8
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	0.9	0.8	0.8	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.2	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Family income in 1989	1.2	1.1	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	1.1	0.6	0.6
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.3	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—North Dakota

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.1	0.8	0.5
Children ever born	2.6	2.5	2.1	1.4
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.6	1.2	0.8
Place of birth	2.1	2.1	1.7	1.1
Citizenship	1.6	1.5	1.1	0.7
Residence in 1985	2.0	1.8	1.5	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	1.0	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	1.1	0.7
Type of residence (urban/rural)	2.2	2.2	1.7	0.9
Household type	1.2	1.1	0.8	0.5
Family type	1.2	1.0	0.7	0.5
Group quarters	0.7	0.7	0.7	0.7
Subfamily type and presence of children	1.2	0.9	0.6	0.5
Employment status	1.2	1.0	0.7	0.5
Industry	1.3	1.0	0.7	0.5
Occupation	1.2	1.0	0.7	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.1	0.8	0.5
Place of work	1.5	1.2	0.9	0.6
Means of transportation to work	1.4	1.1	0.8	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.5	1.1	0.8	0.6
Time leaving home to go to work	1.3	1.0	0.7	0.5
Type of income in 1989	1.4	1.1	0.8	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.7	0.5
Poverty status in 1989 (persons)	1.5	1.3	0.9	0.6
Poverty status in 1989 (families)	1.2	0.9	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.9	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	0.9	0.7	0.5
Condominium status	1.2	1.0	0.7	0.5
Units in structure	1.1	1.0	0.7	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.7	0.5
Kitchen facilities	1.4	1.4	0.9	0.5
Source of water, plumbing facilities	1.5	1.1	0.8	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.7	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	0.9	0.6	0.5

Table C. **Standard Error Design Factors—Ohio**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.5	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.7	0.9	0.8
Place of birth	2.3	2.2	1.2	1.0
Citizenship	1.8	1.5	0.8	0.7
Residence in 1985	2.0	1.9	0.9	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.7	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.8	0.7
Type of residence (urban/rural)	2.4	2.4	0.9	0.9
Household type	1.2	1.0	0.5	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.6	0.6
Means of transportation to work	1.4	1.2	0.6	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.6	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.3	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.5	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	1.0	0.6	0.6
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.5	0.5
Vehicles available	1.2	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.1	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Oklahoma**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.4	1.6	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	2.1	1.8	1.0	0.8
Place of birth	2.1	1.9	1.1	0.9
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.4	1.1	0.6	0.6
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.5	2.5	1.5	1.3
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.1	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.2	0.6	0.6
Sewage disposal	1.1	1.0	0.5	0.4
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Oregon**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.4	1.1
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.0	0.8
Place of birth	1.8	1.5	0.9	0.8
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	2.0	1.7	1.0	0.8
Year of entry	1.5	1.2	0.7	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.4	0.9	0.7
Type of residence (urban/rural)	2.6	2.6	1.5	1.1
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.1	1.0	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.1	0.8	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. Standard Error Design Factors—Pennsylvania

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.3	1.1
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	2.6	2.3	1.2	1.1
Citizenship	1.9	1.5	0.9	0.7
Residence in 1985	2.2	1.9	1.1	0.9
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.0	1.8	1.2	1.2
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.5	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.5	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.4	1.1	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Rhode Island**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.6	0.5
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.2	0.6	0.5
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.0	1.6	0.6	0.5
Place of birth	2.1	1.8	0.6	0.5
Citizenship	1.8	1.6	0.6	0.5
Residence in 1985	2.1	1.9	0.6	0.5
Year of entry	1.5	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.6	0.5
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.6	0.5
Type of residence (urban/ rural)	2.1	1.9	0.6	0.5
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.7	0.6	0.5
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.6	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.2	0.6	0.5
Place of work	1.5	1.2	0.6	0.5
Means of transportation to work	1.5	1.3	0.6	0.5
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.6	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Family income in 1989	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.6	0.5
Poverty status in 1989 (families)	1.2	1.1	0.6	0.5
Armed Forces and veteran status	1.5	1.2	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/ rural)	1.0	0.9	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.3	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.0	0.6	0.5
Source of water, plumbing facilities	1.4	1.2	0.6	0.5
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.3	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.4	1.2	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. **Standard Error Design Factors—South Carolina**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.5	0.5
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.7	2.5	1.4	1.4
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.4	2.1	1.2	1.0
Place of birth	2.4	2.2	1.3	1.2
Citizenship	1.9	1.6	0.9	0.8
Residence in 1985	2.1	1.9	1.0	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.8	0.7
Type of residence (urban/rural)	2.1	1.9	1.2	0.9
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	0.9	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.3	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.6
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.5	0.5
Household income in 1989	1.2	1.1	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.5	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.5	0.5
Sewage disposal	1.2	1.1	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.5	0.5
Year householder moved into structure	1.2	1.1	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—South Dakota**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.7	2.4	1.8	1.6
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.1	0.8
Place of birth	2.2	2.0	1.5	1.1
Citizenship	1.7	1.4	1.0	0.7
Residence in 1985	2.0	1.9	1.3	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.9	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	1.0	0.7
Type of residence (urban/rural)	3.4	2.3	1.5	1.1
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	1.0	0.8	0.7
Subfamily type and presence of children	1.2	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.0	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	0.9	0.6	0.5
Number of workers in family	1.4	1.1	0.7	0.5
Place of work	1.5	1.2	0.8	0.6
Means of transportation to work	1.5	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.5	1.2	0.8	0.6
Time leaving home to go to work	1.3	1.0	0.7	0.5
Type of income in 1989	1.4	1.1	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.9	0.6
Poverty status in 1989 (families)	1.2	0.9	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.8	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.3	0.9	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.7	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.4	1.3	0.7	0.5
Source of water, plumbing facilities	1.4	1.1	0.7	0.5
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.3	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.7	0.5
Vehicles available	1.3	1.1	0.7	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	0.9	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	0.9	0.6	0.5

Table C. **Standard Error Design Factors—Tennessee**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.6	2.4	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.2	2.0	1.1	1.0
Place of birth	2.3	2.1	1.2	1.0
Citizenship	1.8	1.6	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.5	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	1.3	0.8
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.3	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.3	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.5	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.5	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.2	1.0	0.5	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.6
Sewage disposal	1.2	1.1	0.6	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Texas**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	1.0	0.5	0.4
Household type and relationship	1.3	1.1	0.6	0.5
Children ever born	2.6	2.4	1.5	1.3
Work disability and mobility limitation status	1.2	1.1	0.6	0.5
Ancestry	2.4	2.0	1.1	0.9
Place of birth	2.3	2.1	1.3	1.1
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.1	1.9	1.1	0.9
Year of entry	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.6
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.8	1.5	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	1.5	1.3
Household type	1.3	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	1.0	0.9	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.3	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.1	0.6	0.5
Class of worker	1.5	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.5	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.5	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.8	1.5	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.5	1.3	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.1	0.6	0.5
Household income in 1989	1.2	1.1	0.6	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.1	0.6	0.5
Kitchen facilities	1.3	1.1	0.6	0.5
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. Standard Error Design Factors—Utah

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.4	1.2	0.8	0.6
Children ever born	2.7	2.4	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.2	1.0
Place of birth	2.3	2.1	1.5	1.3
Citizenship	1.7	1.5	1.0	0.7
Residence in 1985	2.2	2.0	1.3	1.1
Year of entry	1.4	1.2	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.7
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	2.2	1.7
Household type	1.4	1.2	0.8	0.6
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.8	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.4
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.5
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.8	0.6
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.7	1.5	0.9	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.2	0.9	0.6	0.5
Condominium status	1.2	1.1	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.7	0.6
Source of water, plumbing facilities	1.4	1.2	0.6	0.6
Sewage disposal	1.2	1.0	0.5	0.5
House heating fuel	1.4	1.2	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.6	0.5

Table C. **Standard Error Design Factors—Vermont**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.5
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.8	1.5	1.0	0.8
Place of birth	1.9	1.6	1.0	0.9
Citizenship	1.7	1.4	1.0	0.8
Residence in 1985	1.9	1.7	1.0	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.3	0.9	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	1.0	0.8
Type of residence (urban/rural)	1.7	1.7	1.4	1.4
Household type	1.2	1.0	0.6	0.5
Family type	1.1	1.0	0.6	0.5
Group quarters	1.0	1.1	0.9	0.8
Subfamily type and presence of children	1.1	0.9	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.2	1.0	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.1	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.7	0.6
Place of work	1.4	1.2	0.8	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.0	0.6	0.5
Type of income in 1989	1.3	1.1	0.6	0.5
Household income in 1989	1.1	1.0	0.6	0.5
Family income in 1989	1.1	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.5	1.2	0.7	0.7
Poverty status in 1989 (families)	1.1	0.9	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	0.9	0.9	0.5	0.5
Condominium status	1.1	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.6	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.1	1.0	0.6	0.5
Year structure built	1.1	1.0	0.5	0.5
Rooms, bedrooms	1.1	1.0	0.6	0.5
Kitchen facilities	1.1	0.9	0.6	0.6
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.0	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.1	0.9	0.6	0.5
Mortgage status and selected monthly owner costs	1.1	0.9	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	0.9	0.5	0.5

Table C. Standard Error Design Factors—Virginia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.5	2.3	1.4	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.1	1.0
Place of birth	2.0	1.8	1.1	1.0
Citizenship	1.8	1.5	0.9	0.7
Residence in 1985	2.0	1.8	1.0	0.8
Year of entry	1.5	1.2	0.7	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.5	2.5	1.9	1.2
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.8	0.8
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.4	1.2	0.6	0.5
Place of work	1.5	1.3	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.7	0.6
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.1	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.1	0.6	0.4
Source of water, plumbing facilities	1.3	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.6	0.6
House heating fuel	1.2	1.0	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Washington**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.5	0.4
Household type and relationship	1.2	1.1	0.6	0.5
Children ever born	2.5	2.2	1.3	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.6	1.0	0.8
Place of birth	1.8	1.6	0.9	0.8
Citizenship	1.7	1.4	0.8	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.5	1.2	0.7	0.6
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.8	0.7
Type of residence (urban/rural)	2.3	2.3	1.5	1.1
Household type	1.2	1.1	0.6	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.0	0.9	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.1	0.6	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.6	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.0	0.8	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.5
Sewage disposal	1.2	1.0	0.5	0.4
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

Table C. Standard Error Design Factors—West Virginia

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	0.9	0.6	0.4
Household type and relationship	1.2	1.0	0.6	0.5
Children ever born	2.8	2.6	1.7	1.3
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	2.1	1.9	1.1	0.9
Place of birth	2.5	2.3	1.4	1.1
Citizenship	1.8	1.6	1.0	0.8
Residence in 1985	2.2	1.9	1.1	0.9
Year of entry	1.3	1.0	0.6	0.5
Language spoken at home and ability to speak English	1.7	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.1	1.9	0.9	0.7
Household type	1.2	1.0	0.6	0.5
Family type	1.2	1.0	0.6	0.5
Group quarters	1.0	0.9	0.9	0.9
Subfamily type and presence of children	1.2	1.0	0.6	0.5
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.1	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.4	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.2	1.1	0.6	0.5
Type of income in 1989	1.4	1.1	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.4	1.2	0.7	0.6
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.1	1.0	0.7	0.6
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.1	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	1.2	0.5
Source of water, plumbing facilities	1.3	1.1	0.7	0.6
Sewage disposal	1.1	1.0	0.5	0.5
House heating fuel	1.2	1.1	0.6	0.5
Telephone in housing unit	1.2	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Wisconsin**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.2	0.9	0.5	0.4
Household type and relationship	1.3	1.0	0.6	0.5
Children ever born	2.6	2.3	1.5	1.3
Work disability and mobility limitation status	1.2	1.0	0.5	0.5
Ancestry	1.9	1.6	0.9	0.8
Place of birth	2.3	2.2	1.2	1.1
Citizenship	1.7	1.4	0.9	0.7
Residence in 1985	2.0	1.7	1.0	0.9
Year of entry	1.4	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.8	0.7
Educational attainment	1.3	1.1	0.6	0.5
School enrollment	1.6	1.4	0.9	0.7
Type of residence (urban/rural)	2.0	2.0	1.4	1.2
Household type	1.3	1.0	0.6	0.5
Family type	1.2	1.0	0.5	0.5
Group quarters	0.9	0.8	0.7	0.7
Subfamily type and presence of children	1.2	1.0	0.5	0.5
Employment status	1.2	1.0	0.5	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.5	0.5
Class of worker	1.4	1.2	0.6	0.6
Hours per week and weeks worked in 1989	1.2	1.0	0.5	0.5
Number of workers in family	1.3	1.1	0.6	0.5
Place of work	1.5	1.2	0.7	0.6
Means of transportation to work	1.4	1.2	0.7	0.6
Travel time to work	1.3	1.1	0.6	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.6
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.6	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Family income in 1989	1.2	1.0	0.5	0.5
Poverty status in 1989 (persons)	1.6	1.3	0.7	0.7
Poverty status in 1989 (families)	1.2	1.0	0.5	0.5
Armed Forces and veteran status	1.4	1.1	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.5	0.5
Units in structure	1.1	1.0	0.5	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.1	1.0	0.5	0.5
Gross rent	1.2	1.0	0.5	0.5
Household income in 1989	1.2	1.0	0.5	0.5
Year structure built	1.2	1.0	0.5	0.5
Rooms, bedrooms	1.2	1.0	0.5	0.5
Kitchen facilities	1.2	1.1	0.5	0.5
Source of water, plumbing facilities	1.2	1.1	0.5	0.5
Sewage disposal	1.1	0.9	0.5	0.5
House heating fuel	1.3	1.1	0.5	0.5
Telephone in housing unit	1.2	1.0	0.5	0.5
Vehicles available	1.2	1.1	0.5	0.5
Year householder moved into structure	1.2	1.0	0.5	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.5	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.5	0.5
Gross rent as a percentage of household income in 1989	1.2	1.0	0.5	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.1	1.0	0.5	0.5

Table C. **Standard Error Design Factors—Wyoming**

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age	1.2	1.0	0.6	0.5
Sex	1.2	1.0	0.6	0.5
Race	1.2	1.0	0.6	0.5
Hispanic origin (of any race)	1.2	1.0	0.6	0.5
Marital status	1.1	1.0	0.6	0.4
Household type and relationship	1.3	1.1	0.7	0.5
Children ever born	2.6	2.3	1.5	1.2
Work disability and mobility limitation status	1.2	1.0	0.6	0.5
Ancestry	1.9	1.7	1.0	0.8
Place of birth	1.8	1.6	1.0	0.7
Citizenship	1.7	1.6	0.9	0.7
Residence in 1985	2.1	1.9	1.2	0.9
Year of entry	1.3	1.1	0.6	0.5
Language spoken at home and ability to speak English	1.6	1.4	0.9	0.6
Educational attainment	1.3	1.1	0.7	0.5
School enrollment	1.7	1.5	0.9	0.7
Type of residence (urban/rural)	2.0	1.9	1.7	0.7
Household type	1.3	1.1	0.7	0.5
Family type	1.2	1.1	0.6	0.5
Group quarters	1.2	1.2	1.2	1.2
Subfamily type and presence of children	1.2	1.0	0.5	0.4
Employment status	1.2	1.0	0.6	0.5
Industry	1.3	1.1	0.6	0.5
Occupation	1.2	1.0	0.6	0.5
Class of worker	1.4	1.2	0.7	0.5
Hours per week and weeks worked in 1989	1.2	1.0	0.6	0.4
Number of workers in family	1.4	1.2	0.7	0.5
Place of work	1.5	1.3	0.8	0.5
Means of transportation to work	1.4	1.2	0.7	0.5
Travel time to work	1.3	1.1	0.7	0.5
Private vehicle occupancy	1.4	1.2	0.7	0.5
Time leaving home to go to work	1.3	1.1	0.6	0.5
Type of income in 1989	1.4	1.2	0.7	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Family income in 1989	1.2	1.0	0.6	0.5
Poverty status in 1989 (persons)	1.6	1.4	0.8	0.7
Poverty status in 1989 (families)	1.2	1.0	0.6	0.5
Armed Forces and veteran status	1.3	1.2	0.7	0.5
HOUSING				
Age of householder	1.2	1.0	0.6	0.5
Race of householder	1.2	1.0	0.6	0.5
Hispanic origin of householder	1.2	1.0	0.6	0.5
Type of residence (urban/rural)	1.0	0.9	0.5	0.5
Condominium status	1.2	1.0	0.6	0.5
Units in structure	1.2	1.0	0.6	0.5
Tenure	1.2	1.0	0.6	0.5
Occupancy status	1.2	1.0	0.6	0.5
Value	1.2	1.0	0.6	0.5
Gross rent	1.2	1.0	0.6	0.5
Household income in 1989	1.2	1.0	0.6	0.5
Year structure built	1.2	1.0	0.6	0.5
Rooms, bedrooms	1.2	1.0	0.6	0.5
Kitchen facilities	1.2	1.2	0.5	0.5
Source of water, plumbing facilities	1.4	1.1	0.6	0.6
Sewage disposal	1.2	1.0	0.6	0.4
House heating fuel	1.3	1.0	0.6	0.5
Telephone in housing unit	1.3	1.1	0.6	0.5
Vehicles available	1.3	1.1	0.6	0.5
Year householder moved into structure	1.2	1.0	0.6	0.5
Mortgage status and monthly mortgage costs	1.2	1.0	0.6	0.5
Mortgage status and selected monthly owner costs	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989	1.3	1.0	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income	1.2	1.0	0.6	0.5

APPENDIX D.
Collection and Processing Procedures

CONTENTS

Data Collection Procedures D–2
Enumeration and Residence Rules D–1
Processing Procedures D–5

ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

Enumeration Rules

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other Americans living overseas, such as employees of international agencies and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

Residence Rules

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

Persons in the Armed Forces—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of

the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

Persons on Maritime Ships—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

Persons Away at School—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

Persons in Institutions—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

Persons Away From Their Usual Residence on Census Day—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

Enumeration of Housing Units

Each housing unit in the country received one of two versions of the census questionnaire:

1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100-percent questions.
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/ mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990)

The update/ leave/ mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did *not* use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method

was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

Followup

Nonresponse Followup—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

Coverage and Edit-Failure Followup—In the mail-back areas, some households returned a questionnaire that did not meet specific quality standards because of incomplete or inconsistent information, or the respondent had indicated difficulty in deciding who was to be listed on the questionnaire. These households were contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.
4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing $12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as commercial campgrounds, maternity homes for unwed mothers, and drug/alcohol abuse detoxification centers. In institutions, such as local jails and mental hospitals, the Census Bureau does not know who has a usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).

2. Hotels and motels used to house homeless persons and families.

3. A list of outdoor locations where homeless persons tend to be at night.

4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.

5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing $4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 8, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

PROCESSING PROCEDURES

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied by the respondent was indicated by filling circles in predesignated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC.

APPENDIX E.
Facsimiles of Respondent Instructions and Questionnaire Pages

Your Guide for the

1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside	Page
How to fill out your census form	**2**
Example	**2**
Your answers are confidential	**2**
Instructions for the census questions	**3–11**
What the census is about	**12**
Why the census asks certain questions	**12**

CENSUS '90

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

D-4

How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than ballpoint or other pens. Most questions ask you to fill in the circle, or to print the information. See **Example** below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.

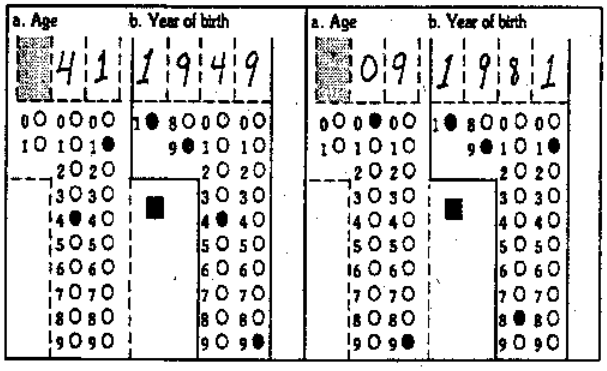
There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. **The telephone number is given on the cover of the questionnaire.**

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

Example



Your Answers Are Confidential

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups--including community organizations--and by businesses and industries, as well as by agencies at all levels of government.

Instructions for Questions 1a through 7

1a. List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.

If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.

b. If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.

2. Fill one circle to show how each person is related to the person in column 1.

If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.

If the **Stepson/stepdaughter** of the person in column 1 also has been legally adopted by the person in column 1, mark **Stepson/stepdaughter** but do not mark **Natural-born or adopted son/daughter**. In other words, **Stepson/stepdaughter** takes precedence over **Adopted son/daughter**.

4. Fill ONE circle for the race each person considers himself/herself to be.

If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).

If you fill the **Other API** circle [under **Asian or Pacific Islander (API)**], **only** print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sri Lankan, and so on.

If you fill the **Other race** circle, be sure to print the name of the race.

If the person considers himself/herself to be **White, Black or Negro, Eskimo or Aleut, fill one circle only. Please do not print the race in the boxes.**

The **Black or Negro** category also includes persons who identify as African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.

All persons, regardless of citizenship status, should answer this question.

5. Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the **Example** on page 2 of this guide.

6. If the person's only marriage was annulled, mark **Never married**.

7. A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadoran, Guatemalan, Honduran, Nicaraguan, Peruvian, Salvadoran, from other Spanish-speaking countries of the Caribbean or Central or South America, or from Spain.

If you fill the **Yes, other Spanish/Hispanic** circle, print one group.

A person who is not of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term **"Mexican-Am."** refers only to persons of Mexican origin or ancestry.

All persons, regardless of citizenship status, should answer this question.

Instructions for Question H1a through H1b

H1a. Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as **Yes**. Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as **No**.

b. If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes**. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No**.

Instructions for Questions H2 through H7b

H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of **A one-family house attached to one or more houses** is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house*; a porch or shed is not considered a room.

H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

H4. Housing is owned if the owner or co-owner lives in it. Mark **Owned by you or someone in this household with a mortgage or loan** if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark **Owned by you or someone in this household free and clear (without a mortgage)** if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark **Rented for cash rent** if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark **Occupied without payment of cash rent** if the unit is **not** owned or being bought by the occupants and if money rent is **not** paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonages; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day	30	4 times a year	3
By the week	4	2 times a year	6
Every other week	2	Once a year	12

b. Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

Instructions for Questions H8 through H19b

H8. The *person listed in column 1* refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

H10. Mark **Yes, have all three facilities** if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do **not** count cars or trucks permanently out of working order.

H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

Solar energy is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system**. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well**.

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

H16. A **public sewer** may be operated by a government body or private organization. A **septic tank or cesspool** is an underground tank or pit used for disposal of sewage.

H17. Fill the circle corresponding to the period in which the original construction was completed, *not* the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

H18. A *condominium* is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

b. *This property* is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

Instructions for Questions H20 through H26

H20. If your house or apartment is rented, enter the costs for utilities and fuels **only if you pay for them in addition to the rent entered in H7a.**

If you live in a condominium, enter the costs for utilities and fuels **only if you pay for them in addition to your condominium fee.**

If your fuel and utility costs are already included in your rent or condominium fee, fill the **Included in rent or in condominium fee** circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [ ] the two utilities.

H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.

H22. When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.

H23a. The word *mortgage* is used as a general term to indicate **all** types of loans that are secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

H24a. A second or junior mortgage or home equity loan is secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

H25. A *condominium fee* is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

H26. Report amount even if your bills are unpaid or paid by someone else.

Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21.The amount to be reported should be the total amount for an entire 12-month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

Instructions for Question 8

8. *For persons born in the United States:*

Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland, or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example,West Indies).

Instructions for Questions 9 through 13

9. A person should fill the **Yes, U.S. citizen by naturalization** circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the **Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas** circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the **Yes, born abroad of American parent or parents** circle.

10. If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

11. Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A *public school* is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are private if supported and controlled primarily by religious organizations or other private groups.

12. Mark the category for the highest grade or level of schooling the person has **successfully completed** or the **highest degree** the person received. If the person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of *professional school degrees* include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

13. Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. *All* persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dominica Island.

A religious group should not be reported as a person's ancestry.

Instructions for Questions 14a through 19

14a. Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).

b. If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York city and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No, lived outside the city/town limits** in part (4).

Part (4)

Mark **Yes** if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

15. Mark **Yes** if the person sometimes or always speaks a language other than English at home.

Do not mark **Yes** for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

17a. For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes, active duty** circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes, service in Reserves or National Guard only**. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count **World War II** Merchant Marine Seaman service as active duty; do **not** count other Merchant Marine service as active duty.

18. Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.

19. Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

Instructions for Questions 20 through 23b

20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

21a. *Count as work — Mark* ***Yes:***

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work — Mark ***No:***

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

22a. Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work *location*. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

d. *If the person worked in New York city* and the county is not known, print the name of the borough where the person worked.

If the person worked in Louisiana, print the name of the parish where the person worked.

If the person worked in Alaska, print the name of the borough where the person worked.

e. *If the person worked in a foreign country or Puerto Rico, Guam, etc.*, print the name of the country in 22e and leave the other parts of question 22 blank.

23a. *If the person usually used more than one type of transportation to get to work* (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.

b. *If the person was driven to work by someone who then drove back home or to a nonwork destination*, fill the circle for **Drove alone.**

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.

Instructions for Questions 24a through 30

24a. Give the time of day the person usually *left home to go to work.* DO NOT give the time that the person usually began his or her work.

If the person usually left home to go to work sometime *between 12:00 o'clock midnight and 12:00 o'clock noon,* fill the **a.m.** circle.

If the person usually left home to go to work sometime *between 12:00 o'clock noon and 12:00 o'clock midnight,* fill the **p.m.** circle.

b. Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.

25. If the person works only during certain seasons or on a day-by-day basis when work is available, mark **No**.

26a. Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.

b. Mark **No, already has a job** if the person was on layoff or was expecting to report to a job within 30 days.

Mark **No, temporarily ill** if the person expects to be able to work within 30 days.

Mark **No, other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.

27. Look at the instructions for question 21a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.

28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."

b. Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.

Some examples of what to enter:

Enter a description like the following –	Do not enter –
Metal furniture manufacturing	Furniture company
Retail grocery store	Grocery store
Petroleum refining	Oil company
Cattle ranch	Ranch

29. Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description.

Some examples of what to enter:

Enter a description like the following –	Do not enter –
Production clerk	Clerk
Carpenter's helper	Helper
Auto engine mechanic	Mechanic
Registered nurse	Nurse

30. Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.

Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.

For persons who worked at a public school, college or university, mark the appropriate *government* category; for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

Instructions for Questions 31a through 32h

31a. Look at the instructions for question 21a to see what to count as work.

b. Count every week in which the person did any work at all, even for an hour.

32. Fill the **Yes** or **No** circle for each part and enter the amount received during 1989.

If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the **No** circle for the other person.

a. Include wages and salaries from *all* jobs *before* deductions. Be sure to include any tips, commissions, or bonuses. Owners of *incorporated* businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.

b. Include *NONFARM* profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated businesses you own.

c. Include *FARM* profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated farm businesses you own. Also *exclude* amounts from land rented for cash but include amounts from land rented for shares.

d. Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.

Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.

Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose *primary* source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.

e. Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers *before* Medicare deductions.

f. Include Supplemental Security income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. *Exclude* assistance to pay for heating (cooling) costs.

g. Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.

h. Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.

Do not include the following as income in any item:

- Refunds or rebates of any kind
- Withdrawals from savings of any kind
- Capital gains or losses from the sale of homes, shares of stock, etc.
- Inheritances or insurance settlements
- Any type of loan
- Pay in-kind such as food, free rent, etc.

What the Census Is About –
Some Questions and Answers

Why are we taking a census?
The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

What does the Census Bureau do with the information you provide?
The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

How long have we been taking the census?
The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

How are you being counted?
Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

Why the Census Asks Certain Questions

Here are a few reasons for asking some of the questions.

It is as important to get information about people and their houses as it is to count them.

Name?
Names help make sure that everyone in a household is counted, but that no one is counted twice.

Value or rent?
Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

Complete plumbing?
This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

Place of birth?
This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

Job?
Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

Income?
Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

CENSUS '90

OFFICIAL 1990 U.S. CENSUS FORM

Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

The law requires answers but guarantees privacy.

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years–or until the year 2062–only Census Bureau employees can see your form. No one else–no other government body, no police department, no court system or welfare agency–is permitted to see this confidential information under any circumstances.

How to get started–and get help.

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

Please answer and return your form promptly.

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census.
Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana –
(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: **1-800-CUENTAN**
(o sea 1-800-283-6826)

U.S. Department of Commerce
BUREAU OF THE CENSUS

FORM D-2

OMB No. 0607-0628
Approval Expires 07/31/91

Page 1

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.

Include	Do NOT include
• Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees	• Persons who usually live somewhere else
• Persons who are temporarily away on a business trip, on vacation, or in a general hospital	• Persons who are away in an institution such as a prison, mental hospital, or a nursing home
• College students who stay here while attending college	• College students who live somewhere else while attending college
• Persons in the Armed Forces who live here	• Persons in the Armed Forces who live somewhere else
• Newborn babies still in the hospital	
• Children in boarding schools below the college level	
• Persons who stay here most of the week while working even if they have a home somewhere else	• Persons who stay somewhere else most of the week while working
• Persons with no other home who are staying here on April 1	

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

	LAST	FIRST	INITIAL		LAST	FIRST	INITIAL
1				7			
2				8			
3				9			
4				10			
5				11			
6				12			

1b. If EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle ⟶ ○ and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.

House number | Street or road/Rural route and box number | Apartment number

City | State | ZIP Code

County or foreign country | Names of nearest intersecting streets or roads

NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY.

PLEASE ALSO ANSWER HOUSING QUESTIONS ON PAGE 3

Please fill one column for each person listed in Question 1a on page 1.	PERSON 1	PERSON 2
	Last name First name — Middle initial	Last name First name — Middle initial
2. How is this person related to PERSON 1? Fill ONE circle for each person. If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member.	If a RELATIVE of Person 1: ○ Husband/wife ○ Brother/sister ○ Natural-born or adopted son/daughter ○ Father/mother ○ Grandchild ○ Stepson/stepdaughter ○ Other relative If NOT RELATED to Person 1: ○ Roomer, boarder, or foster child ○ Unmarried partner ○ Housemate, roommate ○ Other nonrelative
3. Sex Fill ONE circle for each person.	○ Male ○ Female	○ Male ○ Female
4. Race Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.), print the name of the enrolled or principal tribe. If Other Asian or Pacific Islander (API), print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. If Other race, print race.	○ White ○ Black or Negro ○ Indian (Amer.) (Print the name of the enrolled or principal tribe.) ○ Eskimo ○ Aleut Asian or Pacific Islander (API) ○ Chinese ○ Japanese ○ Filipino ○ Asian Indian ○ Hawaiian ○ Samoan ○ Korean ○ Guamanian ○ Vietnamese ○ Other API ○ Other race (Print race)	○ White ○ Black or Negro ○ Indian (Amer.) (Print the name of the enrolled or principal tribe.) ○ Eskimo ○ Aleut Asian or Pacific Islander (API) ○ Chinese ○ Japanese ○ Filipino ○ Asian Indian ○ Hawaiian ○ Samoan ○ Korean ○ Guamanian ○ Vietnamese ○ Other API ○ Other race (Print race)
5. Age and year of birth a. Print each person's age at last birthday. Fill in the matching circle below each box. b. Print each person's year of birth and fill the matching circle below each box.	a. Age: 0 0 0 / 1 1 1 / 2 2 2 / 3 3 3 / 4 4 4 / 5 5 5 / 6 6 6 / 7 7 7 / 8 8 8 / 9 9 9 b. Year of birth: 1 8 0 0 / 9 1 1 / 2 2 / 3 3 / 4 4 / 5 5 / 6 6 / 7 7 / 8 8 / 9 9	a. Age: 0 0 0 / 1 1 1 / 2 2 2 / 3 3 3 / 4 4 4 / 5 5 5 / 6 6 6 / 7 7 7 / 8 8 8 / 9 9 9 b. Year of birth: 1 8 0 0 / 9 1 1 / 2 2 / 3 3 / 4 4 / 5 5 / 6 6 / 7 7 / 8 8 / 9 9
6. Marital status Fill ONE circle for each person.	○ Now married ○ Separated ○ Widowed ○ Never married ○ Divorced	○ Now married ○ Separated ○ Widowed ○ Never married ○ Divorced
7. Is this person of Spanish/Hispanic origin? Fill ONE circle for each person. If Yes, other Spanish/Hispanic, print one group.	○ No (not Spanish/Hispanic) ○ Yes, Mexican, Mexican-Am., Chicano ○ Yes, Puerto Rican ○ Yes, Cuban ○ Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)	○ No (not Spanish/Hispanic) ○ Yes, Mexican, Mexican-Am., Chicano ○ Yes, Puerto Rican ○ Yes, Cuban ○ Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)
FOR CENSUS USE	○ ○	○ ○

NOW PLEASE ANSWER QUESTIONS H1a—H26 FOR THIS HOUSEHOLD

PERSON 7

Last name

First name — Middle initial

If a RELATIVE of Person 1:

- O Husband/wife
- O Natural-born or adopted son/daughter
- O Stepson/stepdaughter
- O Brother/sister
- O Father/mother
- O Grandchild
- O Other relative

If NOT RELATED to Person 1:

- O Roomer, boarder, or foster child
- O Housemate, roommate
- O Unmarried partner
- O Other nonrelative

- O Male
- O Female

- O White
- O Black or Negro
- O Indian (Amer.) (Print the name of the enrolled or principal tribe.)
- O Eskimo
- O Aleut

Asian or Pacific Islander (API)

- O Chinese
- O Filipino
- O Hawaiian
- O Korean
- O Vietnamese
- O Japanese
- O Asian Indian
- O Samoan
- O Guamanian
- O Other API

- O Other race (Print race)

a. Age — b. Year of birth

- O Now married
- O Widowed
- O Divorced
- O Separated
- O Never married

- O No (not Spanish/Hispanic)
- O Yes, Mexican, Mexican-Am., Chicano
- O Yes, Puerto Rican
- O Yes, Cuban
- O Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)

H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?

- O Yes, please print the name(s) and reason(s).
- O No

b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?

- O Yes, please print the name(s) and reason(s).
- O No

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

- O A mobile home or trailer
- O A one-family house detached from any other house
- O A one-family house attached to one or more houses
- O A building with 2 apartments
- O A building with 3 or 4 apartments
- O A building with 5 to 9 apartments
- O A building with 10 to 19 apartments
- O A building with 20 to 49 apartments
- O A building with 50 or more apartments
- O Other

H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

- O 1 room
- O 2 rooms
- O 3 rooms
- O 4 rooms
- O 5 rooms
- O 6 rooms
- O 7 rooms
- O 8 rooms
- O 9 or more rooms

H4. Is this house or apartment —

- O Owned by you or someone in this household with a mortgage or loan?
- O Owned by you or someone in this household free and clear (without a mortgage)?
- O Rented for cash rent?
- O Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —

H5a. Is this house on ten or more acres?

- O Yes
- O No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

- O Yes
- O No

Answer only if you or someone in this household OWNS OR IS BUYING this house or apartment —

H6. What is the value of this property; that is, how much do you think this house and lot or condominium unit would sell for if it were for sale?

- O Less than $10,000
- O $10,000 to $14,999
- O $15,000 to $19,999
- O $20,000 to $24,999
- O $25,000 to $29,999
- O $30,000 to $34,999
- O $35,000 to $39,999
- O $40,000 to $44,999
- O $45,000 to $49,999
- O $50,000 to $54,999
- O $55,000 to $59,999
- O $60,000 to $64,999
- O $65,000 to $69,999
- O $70,000 to $74,999
- O $75,000 to $79,999
- O $80,000 to $89,999
- O $90,000 to $99,999
- O $100,000 to $124,999
- O $125,000 to $149,999
- O $150,000 to $174,999
- O $175,000 to $199,999
- O $200,000 to $249,999
- O $250,000 to $299,999
- O $300,000 to $399,999
- O $400,000 to $499,999
- O $500,000 or more

Answer only if you PAY RENT for this house or apartment —

H7a. What is the monthly rent?

- O Less than $80
- O $80 to $99
- O $100 to $124
- O $125 to $149
- O $150 to $174
- O $175 to $199
- O $200 to $224
- O $225 to $249
- O $250 to $274
- O $275 to $299
- O $300 to $324
- O $325 to $349
- O $350 to $374
- O $375 to $399
- O $400 to $424
- O $425 to $449
- O $450 to $474
- O $475 to $499
- O $500 to $524
- O $525 to $549
- O $550 to $599
- O $600 to $649
- O $650 to $699
- O $700 to $749
- O $750 to $999
- O $1,000 or more

b. Does the monthly rent include any meals?

- O Yes
- O No

FOR CENSUS USE

A. Total persons

B. Type of unit

Occupied: O First form O Cont'n

Vacant: O Regular O Usual home elsewhere

C1. Vacancy status

- O For rent
- O For sale only
- O Rented or sold, not occupied
- O For seas/rec/occ
- O For migrant workers
- O Other vacant

C2. Is this unit boarded up?

- O Yes
- O No

D. Months vacant

- O Less than 1
- O 1 up to 2
- O 2 up to 6
- O 6 up to 12
- O 12 up to 24
- O 24 or more

E. Complete after

O LR O TC O QA O
O P/F O RE O I/T O
O MV O ED O EN

O P0 O P3 O P6
O P1 O P4 O IA
O P2 O P5 O SM

JIC 1 JIC 2

F. Cov.

O 1b O 1a O 7 O H1

G. DO ID

PLEASE ALSO ANSWER THESE

H8. When did the person listed in column 1 on page 2 move into this house or apartment?

- O 1989 or 1990
- O 1985 to 1988
- O 1980 to 1984
- O 1970 to 1979
- O 1960 to 1969
- O 1959 or earlier

H9. How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?

- O No bedroom
- O 1 bedroom
- O 2 bedrooms
- O 3 bedrooms
- O 4 bedrooms
- O 5 or more bedrooms

H10. Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?

- O Yes, have all three facilities
- O No

H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?

- O Yes
- O No

H12. Do you have a telephone in this house or apartment?

- O Yes
- O No

H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?

- O None
- O 1
- O 2
- O 3
- O 4
- O 5
- O 6
- O 7 or more

H14. Which FUEL is used MOST for heating this house or apartment?

- O Gas: from underground pipes serving the neighborhood
- O Gas: bottled, tank, or LP
- O Electricity
- O Fuel oil, kerosene, etc.
- O Coal or coke
- O Wood
- O Solar energy
- O Other fuel
- O No fuel used

H15. Do you get water from —

- O A public system such as a city water department, or private company?
- O An individual drilled well?
- O An individual dug well?
- O Some other source such as a spring, creek, river, cistern, etc.?

H16. Is this building connected to a public sewer?

- O Yes, connected to public sewer
- O No, connected to septic tank or cesspool
- O No, use other means

H17. About when was this building first built?

- O 1989 or 1990
- O 1985 to 1988
- O 1980 to 1984
- O 1970 to 1979
- O 1960 to 1969
- O 1950 to 1959
- O 1940 to 1949
- O 1939 or earlier
- O Don't know

H18. Is this house or apartment part of a condominium?

- O Yes
- O No

If you live in an apartment building, skip to H20.

H19a. Is this house on less than 1 acre?

- O Yes — *Skip to H20*
- O No

b. In 1989, what were the actual sales of all agricultural products from this property?

- O None
- O $1 to $999
- O $1,000 to $2,499
- O $2,500 to $4,999
- O $5,000 to $9,999
- O $10,000 or more

H20. What are the yearly costs of utilities and fuels for this house or apartment? If you have lived here less than 1 year, estimate the yearly cost.

a. Electricity

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or electricity not used

b. Gas

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or gas not used

c. Water

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge

d. Oil, coal, kerosene, wood, etc.

$ .00
Yearly cost — Dollars

OR

- O Included in rent or in condominium fee
- O No charge or these fuels not used

INSTRUCTION:

Answer questions H21 TO H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

$ .00
Yearly amount — Dollars

OR

○ None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

$ .00
Yearly amount — Dollars

OR

○ None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

○ Yes, mortgage, deed of trust, or similar debt
○ Yes, contract to purchase
} *Go to H23b*
○ No — *Skip to H24a*

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

$ .00
Monthly amount — Dollars

OR

○ No regular payment required — *Skip to H24a*

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

○ Yes, taxes included in payment
○ No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

○ Yes, insurance included in payment
○ No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

○ Yes
○ No — *Skip to H25*

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

$ .00
Monthly amount — Dollars

OR

○ No regular payment required

Answer ONLY if this is a CONDOMINIUM —

H25. What is the monthly condominium fee?

$ .00
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —

H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

$ .00
Yearly amount — Dollars

Please turn to page 6.

PLEASE ANSWER THESE QUESTIONS

PERSON 1

Last name First name Middle initial

8. In what U.S. State or foreign country was this person born?

(Name of State or foreign country; or Puerto Rico, Guam, etc.)

9. Is this person a CITIZEN of the United States?

- O Yes, born in the United States — *Skip to 11*
- O Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
- O Yes, born abroad of American parent or parents
- O Yes, U.S. citizen by naturalization
- O No, not a citizen of the United States

10. When did this person come to the United States to stay?

- O 1987 to 1990
- O 1985 or 1986
- O 1982 to 1984
- O 1980 or 1981
- O 1975 to 1979
- O 1970 to 1974
- O 1965 to 1969
- O 1960 to 1964
- O 1950 to 1959
- O Before 1950

11. At any time since February 1, 1990, has this person attended regular school or college? Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree.

- O No, has not attended since February 1
- O Yes, public school, public college
- O Yes, private school, private college

12. How much school has this person COMPLETED? Fill ONE circle for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received.

- O No school completed
- O Nursery school
- O Kindergarten
- O 1st, 2nd, 3rd, or 4th grade
- O 5th, 6th, 7th, or 8th grade
- O 9th grade
- O 10th grade
- O 11th grade
- O 12th grade, NO DIPLOMA
- O HIGH SCHOOL GRADUATE - high school DIPLOMA or the equivalent (For example: GED)
- O Some college but no degree
- O Associate degree in college - Occupational program
- O Associate degree in college - Academic program
- O Bachelor's degree (For example: BA, AB, BS)
- O Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)
- O Professional school degree (For example: MD, DDS, DVM, LLB, JD)
- O Doctorate degree (For example: PhD, EdD)

13. What is this person's ancestry or ethnic origin? (See instruction guide for further information.)

(For example: German, Italian, Afro-Amer., Croatian, Cape Verdean, Dominican, Ecuadoran, Haitian, Cajun; French Canadian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Irish, Polish, Slovak, Taiwanese, Thai, Ukrainian, etc.)

14a. Did this person live in this house or apartment 5 years ago (on April 1, 1985)?

- O Born after April 1, 1985 — *Go to questions for the next person*
- O Yes — *Skip to 15a*
- O No

b. Where did this person live 5 years ago (on April 1, 1985)?

(1) Name of U.S. State or foreign country

(If outside U.S., print answer above and skip to 15a.)

(2) Name of county in the U.S.

(3) Name of city or town in the U.S.

(4) Did this person live inside the city or town limits?

- O Yes
- O No, lived outside the city/town limits

15a. Does this person speak a language other than English at home?

- O Yes
- O No — *Skip to 16*

b. What is this language?

(For example: Chinese, Italian, Spanish, Vietnamese)

c. How well does this person speak English?

- O Very well
- O Not well
- O Well
- O Not at all

16. When was this person born?

- O Born before April 1, 1975 — *Go to 17a*
- O Born April 1, 1975 or later — *Go to questions for the next person*

17a. Has this person ever been on active-duty military service in the Armed Forces of the United States or ever been in the United States military Reserves or the National Guard? If service was in Reserves or National Guard only, see instruction guide.

- O Yes, now on active duty
- O Yes, on active duty in past, but not now
- O Yes, service in Reserves or National Guard only — *Skip to 18*
- O No — *Skip to 18*

b. Was active-duty military service during — Fill a circle for each period in which this person served.

- O September 1980 or later
- O May 1975 to August 1980
- O Vietnam era (August 1964—April 1975)
- O February 1955—July 1964
- O Korean conflict (June 1950—January 1955)
- O World War II (September 1940—July 1947)
- O World War I (April 1917—November 1918)
- O Any other time

c. In total, how many years of active-duty military service has this person had?

Years

18. Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which —

a. Limits the kind or amount of work this person can do at a job?

- O Yes
- O No

b. Prevents this person from working at a job?

- O Yes
- O No

19. Because of a health condition that has lasted for 6 or more months, does this person have any difficulty —

a. Going outside the home alone, for example, to shop or visit a doctor's office?

- O Yes
- O No

b. Taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the home?

- O Yes
- O No

If this person is a female —

20. How many babies has she ever had, not counting stillbirths? Do not count her stepchildren or children she has adopted.

None 1 2 3 4 5 6 7 8 9 10 11 12 or more

O O O O O O O O O O O O O

21a. Did this person work at any time LAST WEEK?

- O Yes — Fill this circle if this person worked full time or part time. (Count part-time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.)
- O No — Fill this circle if this person did not work, or did only own housework, school work, or volunteer work. — *Skip to 25*

b. How many hours did this person work LAST WEEK (at all jobs)? Subtract any time off; add overtime or extra hours worked.

Hours

22. At what location did this person work LAST WEEK? If this person worked at more than one location, print where he or she worked most last week.

a. Address (Number and street)

(If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.)

b. Name of city, town, or post office

c. Is the work location inside the limits of that city or town?

- O Yes
- O No, outside the city/town limits

d. County

e. State **f. ZIP Code**

23a. How did this person usually get to work LAST WEEK? If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

- O Car, truck, or van
- O Bus or trolley bus
- O Streetcar or trolley car
- O Subway or elevated
- O Railroad
- O Ferryboat
- O Taxicab
- O Motorcycle
- O Bicycle
- O Walked
- O Worked at home — *Skip to 28*
- O Other method

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.

b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?

- O Drove alone
- O 2 people
- O 3 people
- O 4 people
- O 5 people
- O 6 people
- O 7 to 9 people
- O 10 or more people

24a. What time did this person usually leave home to go to work LAST WEEK?

[ ] O a.m. O p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

[ ] Minutes — *Skip to 28*

25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?

- O Yes, on layoff
- O Yes, on vacation, temporary illness, labor dispute, etc.
- O No

26a. Has this person been looking for work during the last 4 weeks?

- O Yes
- O No — *Skip to 27*

b. Could this person have taken a job LAST WEEK if one had been offered?

- O No, already has a job
- O No, temporarily ill
- O No, other reasons (in school, etc.)
- O Yes, could have taken a job

27. When did this person last work, even for a few days?

- O 1990
- O 1989
- O 1988
- O 1985 to 1987
- O 1980 to 1984
- O 1979 or earlier
- O Never worked

Go to 28 / *Skip to 32*

28-30. CURRENT OR MOST RECENT JOB ACTIVITY. Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

28. Industry or Employer

a. For whom did this person work? If now on active duty in the Armed Forces, fill this circle → O and print the branch of the Armed Forces.

[ ]
(Name of company, business, or other employer)

b. What kind of business or industry was this? Describe the activity at location where employed.

[ ]
(For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery)

c. Is this mainly — Fill ONE circle

- O Manufacturing
- O Wholesale trade
- O Retail trade
- O Other (agriculture, construction, service, government, etc.)

29. Occupation

a. What kind of work was this person doing?

[ ]
(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, cake icer)

b. What were this person's most important activities or duties?

[ ]
(For example: patient care, directing hiring policies, supervising order clerks, assembling engines, icing cakes)

30. Was this person — Fill ONE circle

- O Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
- O Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
- O Local GOVERNMENT employee (city, county, etc.)
- O State GOVERNMENT employee
- O Federal GOVERNMENT employee
- O SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
- O SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
- O Working WITHOUT PAY in family business or farm

31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?

- O Yes
- O No — *Skip to 32*

b. How many weeks did this person work in 1989? Count paid vacation, paid sick leave, and military service.

[ ] Weeks

c. During the weeks WORKED in 1989, how many hours did this person usually work each week?

[ ] Hours

32. INCOME IN 1989 — Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989.

For income received jointly, see instruction guide. If exact amount is not known, please give best estimate.

If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs — Report amount before deductions for taxes, bonds, dues, or other items.

O Yes → $ .00 Annual amount — Dollars
O No

b. Self-employment income from own nonfarm business, including proprietorship and partnership — Report NET income after business expenses.

O Yes → $ .00 Annual amount — Dollars
O No

c. Farm self-employment income — Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.

O Yes → $ .00 Annual amount — Dollars
O No

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts — Report even small amounts credited to an account.

O Yes → $ .00 Annual amount — Dollars
O No

e. Social Security or Railroad Retirement

O Yes → $ .00 Annual amount — Dollars
O No

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.

O Yes → $ .00 Annual amount — Dollars
O No

g. Retirement, survivor, or disability pensions — Do NOT include Social Security.

O Yes → $ .00 Annual amount — Dollars
O No

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony — Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

O Yes → $ .00 Annual amount — Dollars
O No

33. What was this person's total income in 1989? Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

O None OR $ .00 Annual amount — Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.

APPENDIX F.
Data Products and User Assistance

CONTENTS

Data Products F–1
Geographic Products F–3
Other Census Bureau Resources F–6
Reference Materials F–4
Sources of Assistance F–5

The 1990 census data products are being released in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA™. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F–8. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F–9), present both 100-percent and sample data.

Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: *1990 Census of Population and Housing* (1990 CPH), *1990 Census of Population* (1990 CP), and *1990 Census of Housing* (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F–12 through F–14.

Public Law 94-171 Data—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

Summary Tape Files (STF's)—These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

Subject Summary Tape Files (SSTF's)—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

Public Use Microdata Sample (PUMS) Files—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("microdata") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two standard PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

There also is a special 3-percent "elderly" file with the same geography as the 5-percent sample. Included are households with at least one person age 60 or more and all members of those households.

Other Special Computer Tape Files—Other files include the Census/Equal Employment Opportunity (EEO) File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

Microfiche

All printed reports are offered on microfiche from Customer Services soon after they are published. Plans to prepare microfiche versions of selected other products were canceled, so that more products could be produced on CD-ROM.

Compact Disc—Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are also available on CD-ROM. The Census Bureau also offers on CD-ROM: PUMS Files, SSTF's, Census EEO File, and County-to-County Migration File. Also, other files available on tape can be transferred to CD-ROM by special arrangement with Customer Services (301-457-4100). The cost for such CD's is the same as the cost for the tape files. The files do not include software. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

Online Information Systems

The Census Bureau began CENDATA™, its online information service, in 1984. CENDATA™ is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATA™ provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3. CENDATA™ also offers the entire Census EEO File.

Special Tabulations

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.

The cost of preparing special tabulations must be paid by the users who request them. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

GEOGRAPHIC PRODUCTS

Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these series:

County Block Maps—These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

County Subdivision Outline Maps—Maps in this State-based series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

Census Tract/ Block Numbering Area (BNA) Outline Maps—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show governmental units in relation to the census tracts/ BNA's. The Superintendent of Documents sells printed copies.

Urbanized Area Outline/ Boundary Maps—Maps in this urbanized area-based series depict the boundaries of the urbanized area and the features underlying the boundaries. They also show the boundaries for American Indian and Alaska Native areas (AIANA's), States, counties, county subdivisions (MCD's/ CCD's), places (incorporated and census designated), the map series subject area, and selected base features and their names at a small scale. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of the 1990 CPH-2 series and the Supplementary Report, 1990 CPH-S-1-2, *Urbanized Areas of the United States and Puerto Rico: 1990.*

Voting District Outline Maps—Maps in this county-based series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series will not be printed. Persons interested in this report are encouraged to use the TIGER/ GICS™ tape file (which also is available on CD-ROM) described below. Listings similar to the tables that would have been included in the report may be offered. Contact Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233, telephone 301-457-4100.

The *Congressional District Atlas, 103rd Congress of the United States* is a two-volume, 1,200-page atlas depicting the boundaries and number of the districts for the 103rd Congress as defined following the 1990 decennial census. This is the first Congress defined following the 1990 decennial census and, therefore, illustrates the most significant changes of the decade, including the reapportionment of the U.S. House of Representatives. Congressional district boundaries following governmental unit boundaries such as an incorporated place of a minor civil division, are illustrated using symbology identified in the map legend. Wherever possible, features used as congressional district boundaries are identified by their feature name or their feature type. The Census Bureau may produce subsequent atlases if court ordered or State mandated redistricting creates new congressional district boundaries. The Atlas is sold by the Superintendent of Documents (stock no. 003-024-08683-2; $42).

Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990

census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/ Line™ files. TIGER/ Line™ files (released on tape and CD-ROM) contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/ longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/ Line™ files also furnish address ranges and associated ZIP Codes for each side of street segments that have city-style (house number/ street name) addresses; provide the names of landmarks, such as lakes and golf courses; and include other information. The 1992 version also includes school district codes, 1990 census urbanized area codes, codes for districts of the 103rd Congress, and address range coverage expanded to include all areas that have city-style addresses.

TIGER/ GICS™ file is another extract. This file contains a total of 12 files, organized on a national or State-by-State basis, for a variety of geographic entities, such as metropolitan areas and their components as of the 1990 census, 1990 census urbanized areas and their components, American Indian and Alaska Native areas and their related states and counties, as well as more familiar entities including counties with their county subdivisions and places). This file contains high-level geographic names, codes, and relationship information. It can be used to link geographic entity names to the codes in the TIGER/ Line™, TIGER/ SDTS™ and other TIGER extract files. It also contains 1990 census population and housing counts, population density (CD-ROM version only, but can be calculated using the tape version), and area measurement information (including land area, total water area and separate measurements for each of the four components of water—Inland, Great Lakes, Coastal, and Territorial), as well as the latitude and longitude for an internal point within each geography entity. The TIGER/ GICS™ also includes corrections to names for selected entities and corrections to the FIPS 55 codes for county subdivisions and places. The first 300 characters of each record in this file are the same as those in the Data Dictionary for the Summary Tape Files; and additional 100 characters provide the above mentioned corrections and components of water. Listings of the files in the TIGER/ GICS™ may be offered. Call Customer Services at 301-457-4100.

Other TIGER System extracts, such as TIGER/ Census Tract Comparability™ file and TIGER/ UA Limit file, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

REFERENCE MATERIALS

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- *1990 Census of Population and Housing, Guide.* This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office. (Part A, Text: stock no. 003-024-08574-7, $11. Part B, Glossary: stock no. 003-024-08679-4, $5.50.)

- *1990 Census of Population and Housing Tabulation and Publication Program.* A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.

- *Census '90 Basics.* A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.

- *Census ABC's—Applications in Business and Community.* A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.

- *Maps and More.* A free, tabloid-size booklet that describes the geographic entities for which the Census Bureau tabulates data. The booklet provides information on the types of geographic entities, how their boundaries are established, and how they relate to each other. It also covers how these entities differ among the censuses and surveys and describes the geographic products available from the Census Bureau. Request from Customer Services.

- *Strength in Numbers.* A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- *TIGER: The Coast-to-Coast Digital Map Data Base.* A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- *Census and You.* The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.
- *Monthly Product Announcement.* A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- *Census Catalog and Guide.* A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/ Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List.* This information and selected statistics are available online through CENDATA™, the Census Bureau's online information service. For more information, contact Customer Services.

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

Washington, DC, Contacts—To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-457-4100 (fax number, 301-457-4714).

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-457-2408; Housing—Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553. Microdata—Carmen Campbell, Data User Services Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-457-1139.

Regional Office Contacts—

Atlanta, GA	404-730-3833
Boston, MA	617-424-0510
Charlotte, NC	704-344-6144
Chicago, IL	708-562-1740
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-259-1875
Kansas City, KS	913-551-6711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-512-1800.

Other Sources of Products and Services

State Data Centers—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer Services. The list also notes organizations in States participating in the Census Bureau's Business/ Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

Census Information Center (CIC)—The CIC program provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights,

educational, and religious groups. Through the project, five nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the program, write to the Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-457-1305.

National Clearinghouse—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

Depository Libraries—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

OTHER CENSUS BUREAU RESOURCES

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- *People:* Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- *Business and industry:* Number of employees, total payroll, sales and receipts, products manufactured or sold.
- *Housing and construction:* Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.
- *Farms:* Number, acreage, livestock, crop sales.
- *Governments:* Revenues and expenditures, taxes, employment, pension funds.
- *Foreign trade:* Exports and imports, origin and destination, units shipped.
- *Other nations:* Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the annual *Census Catalog and Guide.* Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

Current Demographic and Housing Programs

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1992 Economic Census includes the censuses of retail trade; wholesale trade; service industries; manufactures; mineral industries; construction industries; financial, insurance, and real estate industries; and transportation, communications, and utilities. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication or online series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

Agriculture Census and Surveys

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—were published in conjunction with the 1987 Census of Agriculture.

Governments Census and Surveys

The census of governments, also for years ending in "2" and "7," covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

Foreign Trade Statistics

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. territories.

Other Statistical Activities

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract of the United States*, the *County and City Data Book* (published every 5 years), and the *State and Metropolitan Area Data Book* (published approximately every 4 years).

Figure 1. **1990 Census Content**

100-PERCENT COMPONENT

Population	**Housing**
Household relationship	Number of units in structure
Sex	Number of rooms in unit
Race	Tenure—owned or rented
Age	Value of home or monthly rent
Marital status	Congregate housing (meals included in rent)
Hispanic origin	Vacancy characteristics

SAMPLE COMPONENT

Population	**Housing**
Social characteristics:	Year moved into residence
Education—enrollment and attainment	Number of bedrooms
Place of birth, citizenship, and year of entry into U.S.	Plumbing and kitchen facilities
Ancestry	Telephone in unit
Language spoken at home	Vehicles available
Migration (residence in 1985)	Heating fuel
Disability	Source of water and method of sewage disposal
Fertility	Year structure built
Veteran status	Condominium status
	Farm residence
Economic characteristics:	Shelter costs, including utilities
Labor force	
Occupation, industry, and class of worker	
Place of work and journey to work	
Work experience in 1989	
Income in 1989	
Year last worked	

NOTE: Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

Figure 2. **1990 Census Printed Reports**

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)		
		100-Percent Data		
1990 CPH-1	**Summary Population and Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	**Population and Housing Unit Counts**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
		100-Percent and Sample Data		
1990 CPH-3	**Population and Housing Characteristics for Census Tracts and Block Numbering Areas**	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/BNA's, places of 10,000 or more, and counties
1990 CPH-4	**Population and Housing Characteristics for Congressional Districts of the 103rd Congress**	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
		Sample Data		
1990 CPH-5	**Summary Social, Economic, and Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
		1990 CENSUS OF POPULATION (1990 CP)		
		100-Percent Data		
1990 CP-1	**General Population Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. **1990 Census Printed Reports**—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF POPULATION (1990 CP)—Con.		
		100-Percent Data—Con.		
1990 CP-1-1A	**General Population Characteristics for American Indian and Alaska Native Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	**General Population Characteristics for Metropolitan Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	**General Population Characteristics for Urbanized Areas**	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
		Sample Data		
1990 CP-2	**Social and Economic Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	**Social and Economic Characteristics for American Indian and Alaska Native Areas**	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	**Social and Economic Characteristics for Metropolitan Areas**	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	**Social and Economic Characteristics for Urbanized Areas**	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	**Population Subject Reports**	Selected subjects	Reports on selected population census subjects	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 2. **1990 Census Printed Reports**—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
		1990 CENSUS OF HOUSING (1990 CH)		
		100-Percent Data		
1990 CH-1	**General Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	**General Housing Characteristics for American Indian and Alaska Native Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CH-1-1B	**General Housing Characteristics for Metropolitan Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CH-1-1C	**General Housing Characteristics for Urbanized Areas**	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
		Sample Data		
1990 CH-2	**Detailed Housing Characteristics**	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	**Detailed Housing Characteristics for American Indian and Alaska Native Areas**	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	**Detailed Housing Characteristics for Metropolitan Areas**	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	**Detailed Housing Characteristics for Urbanized Areas**	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	**Housing Subject Reports**	Selected subjects	Reports on selected housing census subjects	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 3. **1990 Census Summary Tape Files**

Summary Tape File (STF 1A, 1B, etc.) and data type (100 percent or sample)[1]		Geographic areas	Description
STF 1 (100 percent)	A[2]	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas	Over 900 cells/ items of 100-percent population and housing counts and characteristics for each geographic area
	B[2]	States, counties, county subdivisions, places, census tracts/ BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
	C[2]	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas	
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's	Over 2,100 cells/ items of 100-percent population and housing counts and characteristics for each geographic area. Each of the STF 2 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas	
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	
STF 3 (Sample)	A[2]	States, counties, county subdivisions, places, census tracts/ BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	Over 3,300 cells/ items of sample population and housing characteristics for each geographic area
	B[2]	Five-digit ZIP Codes within each State	
	C[2]	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

Figure 3. **1990 Census Summary Tape Files**—Con.

Summary Tape File (STF 1A, 1B, etc.) and data type (100 percent or sample)[1]		Geographic areas	Description
	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's	
STF 4 (Sample)	B	State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	Over 8,500 cells/ items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.
	C	U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	

Note: STF 420 Place of Work 20 Destinations File. This is a new file for 1990. Comparable data were included as part of STF 4 in 1980, but for 1990 this is a separate file and must be ordered and purchased separately from STF 4. The file contains 20 place of work destinations for each county or county equivalent, minor civil division, place of 10,000 or more persons, and census tract or block numbering area. Data are also provided for each major race and for workers of Hispanic origin cross-classified by race. The geographic level of the destinations varies. A destination may be a place, county, balance of county, metropolitan area, or balance of metropolitan area.

[1]Similar STF's are prepared for Puerto Rico and the U.S. Virgin Islands.
[2]Also available on laser disc (CD-ROM). STF 1B CD-ROM presents only part of the data for blocks and other areas in the tape file.

Figure 4. **Other 1990 Census Data Products**

Title	Description	Geographic areas
Subject Summary Tape Files	Various computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series).	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and diskettes	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/ Equal Employment Opportunity (EEO) File	Sample tabulations showing detailed occupations and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race. Also supplemental files with additional tabulations are available	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to-county migration streams and significant interstate county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteristics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—County Based		County groups, counties, county subdivisions, and places with 100,000 or more inhabitants
1 Percent—Metropolitan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
3 Percent—Elderly	As above, but includes only households with at least one person age 60 or more	Same as for 5-percent sample
Special Tabulations	User-defined tabulations for specified geographic areas provided on printouts, tapes, or other products	User-defined areas or standard areas

APPENDIX G.
Record Layout of Machine-Readable Data Dictionary

CONTENTS

Geographic Description G–1
Table (Matrix) Description G–2

This appendix provides the record layout for the machine-readable data dictionary file that accompanies each data tape. This data dictionary was developed as a "generic" dictionary that, with some programming, could be converted for use with specific software packages.

GEOGRAPHIC DESCRIPTION

Geographic Record 1—Field Mnemonic, Size, and Type

Position	*Description*
1-2	Identifier "G1" (Geographic Record 1)
3	Blank
4-11	Field mnemonic (left justified)
12	Blank
13-14	Field size (right justified)
15	Blank
16-18	Data type (left justified) Note: Legal entries are A, N, and A/N
19	Blank
20-24	Begin position (right justified) (Begin position in relation to the entire record)
25	Blank
26-30	Relative begin position (right justified) (Begin position in relation to the record segment)

Geographic Record 1—Con.

31	Blank
32	Number of implied decimals
33-80	Blank

Geographic Record 2—Field Description

Position	*Description*
1-2	Identifier "G2" (Geographic Record 2)
3	Blank
4-8	Begin position (right justified) (repeat from 20-24 above)
9	Blank
10-80	Field Description (left justified)

Geographic Record 3—Code Identification

Position	*Description*
1-2	Identifier "G3" (Geographic Record 3)
3	Blank
4-8	Begin position (right justified) (repeat from 20-24 in G1)
9	Blank
10-17	Codes (right justified)
18	Blank
19-80	Code identification (left justified)

Geographic Description Examples[1]

Examples of the geographic records are shown below. In example 1, there are no G3 records. G3 records will appear only for fields which have code listings in the technical documentation.

Example 1

```
G1 FILEID    8 A/N     1     1 0
G2     1 File Identification
```

Example 2

```
G1 PSADC     2 A/N   289   289 0
G2   289 Political/Statistical Area Description Code
G3   289       01 State or State equivalent - no status is appended to the name
G3   289       01 of the entity in census publications and related data products
G3   289       04 Borough - county equivalent in Alaska; "Borough" is appended t
G3   289       04 o the name of the entity in census publications and related da
G3   289       04 ta products
G3   289       05 Census area - county equivalent in Alaska; "Census Area" is ap
G3   289       05 pended to the name of the entity in census publications and re
G3   289       05 lated data products
```

[1]Examples are for illustrative purposes and are not specific to this STF.

TABLE (MATRIX) DESCRIPTION

Table Record 1—Table Number and Characteristics

Position	*Description*
1-2	Identifier "T1" (Table Record 1)
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-17	Begin position (right justified)[2] (Begin position in relation to the entire record)
18	Blank
19-25	Relative begin position (right justified)[2] (Begin position in relation to the record segment)
26	Blank
27-28	Cell size for this table (matrix) (right justified)
29	Blank
30	Number of implied decimals for cells in this table (matrix)
31	Blank
32-38	Number of cells in this table (matrix) (right justified)[2]
39	Blank
40-42	Number of variables (right justified)
43-80	Blank

Table Record 2—Table Title

Position	*Description*
1-2	Identifier "T2" (Table Record 2)
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-80	Table (matrix) title (left justified)

Table Record 3—Universe Description

Position	*Description*
1-2	Identifier "T3" (Table Record 3)
3	Blank

Table Record 3—Con.

4-9	Table (matrix) number (left justified)
10	Blank
11-80	Universe Description (left justified)

Table Record 4-N—Table Variable Descriptions

Position	*Description*
1-2	Identifier "Tn" n= sequence number of variable in the table being described.
3	Blank
4-9	Table (matrix) number (left justified)
10	Blank
11-76	Variable name (left justified)
77	Blank
78-80	Number of categories for this variable (right justified) Note: Subsequent "T" records with the same "n" will have the variable categories described in positions 11-80.

Filler Record

Position	*Description*
1-2	Identifier "F1" (Filler Record)
3	Blank
4-7	"FILL"
8-10	Blank
11-17	Begin Position (right justified) (Begin position in relation to the entire record)[2]
18	Blank
19-25	Relative Begin Position (right justified) (Begin position in relation to the record segment)[2]
26	Blank
27-30	Total number of "FILL" blanks
31-80	Blank

Matrix Example[1]

See example 3 below.

Example 3. Matrix Example

Sex (2) by Marital Status(5) [10]

```
T1 P14        4423     4423  9 0  10   2
T2 P14    SEX BY MARITAL STATUS
T3 P14    Persons 15 years and over
T4 P14    SEX                                                    2
T4 P14    Male
T4 P14    Female
T5 P14    MARITAL STATUS                                         5
T5 P14    Never married
T5 P14    Now married, except separated
T5 P14    Separated
T5 P14    Widowed
T5 P14    Divorced
```

[1]Examples are for illustrative purposes and are not specific to this STF.
[2]These positions have been increased to accommodate all record sizes. Previous products had less characters; future products (STF 3 PR, STF 3 VI, STF 4, etc.) will have the above structure.

APPENDIX H.
Code Lists

These code lists apply to subject characteristics that the Census Bureau will include in its standard 1990 census data products. However, not all code lists may be applicable for this file.

CONTENTS

Ancestry — H-1
Group Quarters — H-17
Hispanic Origin — H-22
Industry — H-24
Language — H-30
Occupation — H-37
Place of Birth — H-50
Race — H-54

ANCESTRY

This section contains the code list for ancestry categories. Each person enumerated in the census had the opportunity to enter two distinct ancestry identities which indicated his or her ethnic origin. Each entry received one of the unique three-digit codes listed below. All codes are listed below. However, not all ancestry entries are listed. The ancestry codes can be aggregated to create commonly recognized national groupings. For example, the code for Walloon can be collapsed with other "Belgian" entries to form a national grouping representative of an area in Europe. National groupings can also be collapsed to represent continental areas. For example, Belgium can be added to France and other European clusters to form a representation of that continent. "n.e.c." is the abbreviation for not elsewhere classified.

000-099	WESTERN EUROPE (EXCEPT SPAIN)
000-001	ALSATIAN
000-001	Alsace Lorraine
002	ANDORRAN
002	Andorra
003-004	AUSTRIAN
003	AUSTRIAN
003	Austria
004	TIROL
004	Tirol
005-007	BASQUE
005	BASQUE
005	Euskalduna
005	Euzkadi
006	FRENCH BASQUE
007	SPANISH BASQUE
007	Vasco
008-010	BELGIAN
008	BELGIAN
008	Belgium
009	FLEMISH
009	Flanders
009	Fleming
009	Vlamand
010	WALLOON

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
011-014	BRITISH
011	BRITISH
011	Great Britain
011	United Kingdom
012	BRITISH ISLES
013	CHANNEL ISLANDER
013	Guernsey Islander
013	Jersey Islander
014	GIBRALTAR
015	CORNISH
015	Cornwall
016	CORSICAN
016	Corsica
017-019	CYPRIOT
017	CYPRIOT
017	Cyprus
018	GREEK CYPRIOTE
019	TURKISH CYPRIOTE
020	DANISH
020	Denmark
021	DUTCH
021	Holland
021	Netherlands

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
022	ENGLISH
022	Anglican
022	England
022	Mayflower
023	FAEROE ISLANDER
023	Faeroe Islands
024-025	FINNISH
024	FINNISH
024	Finland
025	KARELIAN
026-027	FRENCH
026	FRENCH
026	France
026	Gascon
026	Hugenot
026	Normandy
027	LORRAINE
028	BRETON
028	Brelzh
028	Bretagne
028	Brittany
029	FRISIAN
029	Friesian Islands
030-031	FRIULIAN
030	FRIULIAN
030	Friuli
030	Furlan
031	LADIN
032-045	GERMAN
032	GERMAN
032	Germany
033	BAVARIA
034	BERLIN
035	HAMBURG
036	HANNOVER
037	HESSIAN
038	LUBECKER
039	POMERANIAN
040	PRUSSIAN
041	SAXON
042	SUDETENLANDER
043	WESTPHALIAN
044	EAST GERMAN
045	WEST GERMAN
045	Palatinate
045	Rhineland

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
046-048	GREEK
046	GREEK
046	Greece
047	CRETAN
048	CYCLADES
048	Dodecanese Islander
048	Peloponnesian
049	ICELANDER
049	Iceland
050	IRISH
050	Black Irish
050	Clare
050	Cork
050	Donegal
050	Dubliner
050	Eire
050	Galway
050	Ireland
050	Irish Free State
050	Kerry
050	Kildare
050	Kilkenny
050	Laoighis
050	Leitrim
050	Leix
050	Limerick
050	Longford
050	Louth
050	Mayo
050	Meath
050	Monaghan
050	Offaly
050	Roscommon
050	Sligo
050	Tipperary
050	Waterford
050	Westmeath
050	Wexford
050	Wicklow
051-074	ITALIAN
051	ITALIAN
051	Istria
051	Italy
052	TRIESTE
053	ABRUZZI
054	APULIAN
054	Apulia
055	BASILICATA
055	Lucania
056	CALABRIAN
057	AMALFIN
057	Campania

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
058	EMILIA ROMAGNA
059	ROME
059	Lazio
059	Vatican City
060	LIGURIAN
061	LOMBARDIAN
062	MARCHE
063	MOLISE
064	NEAPOLITAN
065	PIEDMONTESE
066	PUGLIA
067	SARDINIAN
068	SICILIAN
068	Sicily
069	TOSCANA
069	Tuscany
070	TRENTINO
071	UMBRIAN
072	VALLE DAOST
073	VENETIAN
073	Venezia Giulia
074	SAN MARINO
075	LAPP
075	Lapland
075	Samelat
076	LIECHTENSTEINER
076	Liechtenstein
077	LUXEMBURGER
077	Luxemburg
078	MALTESE
078	Gozo
078	Malta
079	MANX
079	Isle of Man
080	MONEGASQUE
080	Monaco
081	NORTH IRISH
081	Antrim
081	Armagh
081	Derry
081	Down
081	Fermanagh
081	Londonderry
081	Northern Ireland
081	Orangeman
081	Tyrone
081	Ulster

000-099	WESTERN EUROPE (EXCEPT SPAIN)—Con.
082	NORWEGIAN
082	Jan Meyen Islander
082	Norway
082	Spitsbergen
082	Svalbard Islander
083	OCCITAN
083	Provence
084-086	PORTUGUESE
084	PORTUGUESE
084	Lusitania
084	Luso
084	Portugal
085	AZORES ISLANDER
086	MADEIRA ISLANDER
087	SCOTCH-IRISH
087	Scot-Irish
088	SCOTTISH
088	Orkney Islander
088	Pict
088	Scot
088	Scotland
088	Shetland Islander
089-090	SWEDISH
089	SWEDISH
089	Sweden
090	ALAND ISLANDER
091-096	SWISS
091	SWISS
091	Switzerland
092	SUISSE
093	SWITZER
093-094	Schweiz
095	ROMANSCH
096	SUISSE ROMANE
096	Ticino
097	WELSH
097	Wales
098	SCANDINAVIAN
098	Nordic
098	Scandinavia
099	CELTIC
099	Celtic

100-180	EASTERN EUROPE AND SOVIET UNION
100	ALBANIAN
100	Albania
100	Arberesh
100	Gheg
100	Italo Albanian
100	Kossovo
100	Tosc
101	AZERBAIJANI
101	Adjerbaijani
101	Azerbaidzhan
101	Azeri
102	BELORUSSIAN
102	Byelorussian
103	BULGARIAN
103	Bulgaria
103	Bulgaro Macedonian
103	Eastern Rumelian
104-105	CARPATHO RUSYN
104	CARPATHO RUSYN
104	Carpatho Rus
104	Carpatho Russian
104	Carpatho Ruthenian
105	CARPATHIAN
106	RUSYN
106	Rus
106	Rusin
106	Rusnak
107	RUTHENIAN
107	Ruthenia
108	COSSACK
108	Don Cossack
108	Orenburg Cossack
108	Terek Cossack
108	Ural Cossack
109-110	CROATIAN
109	Croatia
109	Dalmatian
109-110	Zadar
111-113	CZECH
111	CZECH
112	BOHEMIAN
113	MORAVIAN
114	CZECHOSLOVAKIAN
114	Czechoslovakia
114	Tczechoslovakia

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
115-116	ESTONIAN
115	ESTONIAN
115	Estonia
116	LIVONIAN
117-119	FINNO UGRIAN
117	FINNO UGRIAN
117	Komi
117	Mari
117	Udmurt
118	MORDOVIAN
119	VOYTAK
120-121	GRUZIIA
120-121	Gruzinets
122-123	GERMAN FROM RUSSIA
122	GERMAN FROM RUSSIA
123	VOLGA
123	Black Sea German
123	Volhynian German
124	ROM
124	Boyash
124	Cali
124	Dom
124	Gitanos
124	Gypsy
124	Kalderash
124	Luri
124	Manouche
124	Nat
124	Romnichal
124	Senti
124	Xoraxaya
125-126	HUNGARIAN
125	HUNGARIAN
125	Hungary
125	Szekler
126	MAGYAR
127	KALMYK
127	Kalmuck
128	LATVIAN
128	Latvia
128	Lettish
129	LITHUANIAN
129	Jmoud
129	Lithuania
130	MACEDONIAN
130	Macedonia

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
130	Slavophone
131	MONTENEGRIN
131	Orna Gora
132-141	NORTH CAUCASIAN
132	NORTH CAUCASIAN
132	Abkhazian
132	Adyge
132	Avar
132	Caucasus Mountains
132	Chechen
132	Daghestan
132	Darghinian
132	Gortsy
132	Ingush
132	Kabardinian
132	Lezghian
132	Tavlintsy
133	NORTH CAUCASIAN TURKIC
133	Adzharian
133	Balkar
133	Cherkess
133	Circassian
133	Karachay
133-139	Kumyk
140-141	OSSETIAN
142-143	POLISH
142	POLISH
142	Gorali
142	Masurian
142	Poland
142	Polonia
142	Polska
143	KASHUBIAN
144-147	ROMANIAN
144	ROMANIAN
144	Romania
144	Transylvania
145	BESSARABIAN
145	Dobruja
146	MOLDAVIAN
147	WALLACHIAN
147	Vlach
148-151	RUSSIAN
148	RUSSIAN
148	Black Russian
148	Great Russian
148	Red Russian
148	Rossiya
148-149	Russia
150-151	MUSCOVITE

100-180	EASTERN EUROPE AND SOVIET UNION—Con.
152	SERBIAN
152	Serb
153	SLOVAK
153	Slovakian
153	Slovjak
154-155	SLOVENE
154	SLOVENE
154	Slovenc
154	Slovenian
154	Slovenski
155	SORBIAN/WEND
155	Lusatian Serb
155	Sorb
155	Wend
155	Wendish
156-163	SOVIET TURKIC
156	SOVIET TURKIC
156	Soviet Turk
157	BASHKIR
158	CHUVASH
159	GAGAUZ
160	MESKNETIAN
161-162	TUVINIAN
163	YAKUT
164	SOVIET UNION
164	Union of Soviet Socialist Republics
165-167	TATAR
165	TATAR
165	Crimean Tatar
165	Kazan Tatar
165	Nogay Tatar
165	Polish Tatar
165-166	Volga Tatar
167	SOVIET CENTRAL ASIA
167	Kurile Islander
167	Sakhalin Islander
167	Siberian
168-170	TURKESTANI
168	TURKESTANI
168	Karakalpak
168	Kazak
168	Kirghiz
168	Tadzhik
168	Turcoman
168	Turkestani
168	Turkmen
168	Turkoman
168	Uiger
169-170	UZBEG

100-180	**EASTERN EUROPE AND SOVIET UNION—Con.**
171-174	UKRAINIAN
171	UKRANIAN
171	Little Russian
171	Malo Russian
171	Ukraine
172	LEMKO
172	Lemkian
173	BIOKO
174	HUSEL
175	WINDISH
175	Prekmurje
175	Windisch
176-177	YUGOSLAVIAN
176	YUGOSLAVIAN
176	Jugoslavia
177	HERZEGOVINIAN
177	Bosanci
177	Bosnian Muslim
177	Bosnjaci
178-180	SLAVIC
178	SLAVIC
178	Slav
179-180	SLAVONIAN
181-199	**EUROPE, N.E.C.**
181	EUROPE, N.E.C.
181	Central European
181-182	Middle European
183	NORTHERN EUROPEAN
183-184	North Europe
185	SOUTHERN EUROPEAN
185-186	South Europe
187	WESTERN EUROPEAN
187-189	West Europe
190	EASTERN EUROPEAN
190	Byzantine
190	East Europe
191-192	BUKOVINA
193-194	SILESIAN
195	EUROPEAN
196	GALICIAN
196-199	Galicia
200-299	**HISPANIC CATEGORIES (INCLUDING SPAIN)**
200-203	SPANIARD
200	SPANIARD
200	Espanola
200	Iberian
200	Spain

200-299	**HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.**
201	ANDALUSIAN
202	ASTURIAN
203	CASTILLIAN
204-209	CATALONIAN
204	CATALONIAN
204	Catalonia
205	BALEARIC ISLANDER
205	Mallorca
206	GALLEGO
207	VALENCIAN
208-209	CANARY ISLANDER
210-218	MEXICAN
210	MEXICAN
211	MEXICAN AMERICAN
212	MEXICANO
213	CHICANO
214-217	LA RAZA
218	MEXICAN STATE
218	Aguascalientes
218	Baja California
218	Campeche
218	Chiapas
218	Chihuahua
218	Coahuila
218	Colima
218	Distrito Federal
218	Durango
218	Guanajuato
218	Guerrero
218	Hidalgo
218	Jalisco
218	Mexico
218	Michoacan
218	Morelos
218	Nayarit
218	Nuevo Leon
218	Oaxaca
218	Puebla
218	Queretaro
218	Quintana Roo
218	San Luis Potosi
218	Sinaloa
218	Sonora
218	Tabasco
218	Tamaulipas
218	Tlaxcala
218	Vera Cruz
218	Yucatan
218	Zacatecas
219-221	COSTA RICAN
219	Costa Rica
219-221	Costarricense

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
222	GUATEMALAN
222	Guatemala
223	HONDURAN
223	Honduras
224	NICARAGUAN
224	Nicaragua
225	PANAMANIAN
225	Panama
226	SALVADORAN
226	El Salvador
226	Salvadorian
227-228	CENTRAL AMERICAN
227-228	Central America
229-230	CANAL ZONE
231	ARGENTINEAN
231	Argentine
232	BOLIVIAN
232	Bolivia
233	CHILEAN
233	Chile
234	COLOMBIAN
234	Antiochio
234	Colombia
235	ECUADORIAN
235	Ecuador
235	Galapagos Islander
236	PARAGUAYAN
236	Paraguay
237	PERUVIAN
237	Peru
238	URUGUAYAN
238	Uruguay
239	VENEZUELAN
239	Venezuela
240-248	CRIOLLO
240-248	Criolla
249	SOUTH AMERICAN
249	America Del Sur

200-299	HISPANIC CATEGORIES (INCLUDING SPAIN)—Con.
249	Sudamerica
250-260	LATIN AMERICAN
250	LATIN AMERICAN
250	America Latina
250	Latinoamericana
251	LATIN
252-260	LATINO
261-270	PUERTO RICAN
261	Boricua
261	Borinquena
261	New York Puerto Rican
261	Puerto Rico
261-270	Puertorriqueno
271-274	CUBAN
271	Cuba
271	Cubana
271-274	Guajiro
275	DOMINICAN
275	Dominican Republic
275	Dominicana
275	Santo Domingo
276-290	HISPANIC
276-290	Hispano
291-299	SPANISH
292	CALIFORNIO
293	TEJANO
293	Tejana
294	NUEVO MEXICANO
295-299	SPANISH AMERICAN
300-359	**WEST INDIES (EXCEPT HISPANIC)**
300	BAHAMIAN
300	Bahamas
301	BARBADIAN
301	Barbados
302	BELIZEAN
302	Belize
302	British Honduran
303	BERMUDAN
303	Bermuda
304-307	CAYMAN ISLANDER
308-309	JAMAICAN
308-309	Jamaica

300-359	**WEST INDIES (EXCEPT HISPANIC)—Con.**
310-313	DUTCH WEST INDIES
310	DUTCH WEST INDIES
310	Black Dutch
310	Netherlands Antilles
311	ARUBA ISLANDER
311	Bonaire Islander
311	Curacao Islander
312-313	ST. MAARTEN ISLANDER
312	Saba Islander
312-313	St. Eustatius Islander
314-316	TRINIDADIAN TOBAGONIAN
314	TRINIDADIAN TOBAGONIAN
315	TRINIDADIAN
316	TOBAGONIAN
317-320	U.S. VIRGIN ISLANDER
317	U.S. VIRGIN ISLANDER
318	ST. CROIX ISLANDER
318	Crucian
318	Santa Cruz
319	ST. JOHN ISLANDER
320	ST. THOMAS ISLANDER
321-331	BRITISH WEST INDIES
321	BRITISH VIRGIN ISLANDER
321	Tortolan
321	Virgin Gorda
321	Anegada
321	Jost Van Dyke
321	Peter and Norman
322	BRITISH WEST INDIAN
322	British West Indies
323	TURKS AND CAICOS ISLANDER
324	ANGUILLA ISLANDER
325	ANTIGUA AND BARBUDA
325	Antigua
325	Barbuda
325	Redonda Islander
326	MONTSERRAT ISLANDER
327	KITTS-NEVIS ISLANDER
327	St. Christopoher Islander
327	Sombrero Islander
327	St. Kitts
327	Nevis
328	DOMINICA ISLANDER
329	GRENADIAN
329	Grenada Islander
330	VINCENT-GRENADINE ISLANDER
330	St. Vincent Island
330	Vincentian
330	Grenadines Islander
331	ST. LUCIA ISLANDER

300-359	**WEST INDIES (EXCEPT HISPANIC)—Con.**
332-334	FRENCH WEST INDIES
332	FRENCH WEST INDIES
332	French West Indian
333	GUADELOUPE ISLANDER
333	Martinicois
333	Martinique Islander
334	CAYENNE
334	French Guiana
334	French Guianese
334	Guyane
335	WEST INDIAN
335	West Indies
335	Arawak
335	Caribs
335	Caribbean
335	Garifuna
336-359	HAITIAN
336-359	Haiti
360-399	**CENTRAL AND SOUTH AMERICA (EXCEPT HISPANIC)**
360-364	BRAZILIAN
360-364	Brazil
365-369	SAN ANDRES
370-374	GUYANESE
370	British Guiana
370-374	Guyana
375-379	PROVIDENCIA
380-399	SURINAM
380	Dutch Guiana
380-399	Netherlands Guiana
400-499	**NORTH AFRICA AND SOUTHWEST ASIA**
400-401	ALGERIAN
400-401	Algeria
402-403	EGYPTIAN
402	Copt
402	Egypt
402-403	Fellahin
404-405	LIBYAN
404-405	Libya
406-407	MOROCCAN
406	MOROCCAN
406	Moor
407	IFNI

400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.
408-410	TUNISIAN
408-410	Tunisia
411	NORTH AFRICAN
412	ALHUCEMAS
412	Ceuta
412	Chafarinas
412	Melilla
413	BERBER
414	RIO DE ORO
414	Saguia El Hamra
415	BAHRAINI
415	Bahrain
416	IRANIAN
416	Iran
416	Parsi
416	Persia
417-418	IRAQI
417-418	Iraq
419-420	ISRAELI
419-420	Israel
421-422	JORDANIAN
421	JORDANIAN
421	Hashemite
421	Jordan
422	TRANSJORDAN
423-424	KUWAITI
423-424	Kuwait
425-426	LEBANESE
425	Lebanon
425-426	Maronite
427-428	SAUDI ARABIAN
427-428	Saudi Arabia
429-430	SYRIAN
429	Djebel Druze
429	Latakia
429-430	Syria
431-433	ARMENIAN
431-433	Armenia
434	TURKISH
434	Turkey

400-499	NORTH AFRICA AND SOUTHWEST ASIA—Con.
435	YEMENI
435	Yemen Arab Republic
436-441	OMANI
436	OMANI
437	MUSCAT
438	TRUCIAL STATES
438	Trucial Oman
439-440	QATAR
441	BEDOUIN
442-464	KURDISH
442-443	KURDISH
444-464	KURIA MURIA ISLANDER
465-469	PALESTINIAN
465	PALESTINIAN
466	GAZA STRIP
467-469	WEST BANK
470-479	SOUTH YEMEN
470	SOUTH YEMEN
470	Democratic Republic of Yemen
471-479	ADEN
480-481	UNITED ARAB EMIRATES
480	Abu Dhabi
480	Ajman
480	Dubai
480	Fujairah
480	Ras Al Kaimah
480	Sharjah
480-481	Umm Al Qaiwain
482-489	ASSYRIAN
482	Aramean
482	Assyria
482	Chaldean
482	Chaldo
482	Jacobite
482	Kaldany
482	Kaldu
482	Kasddem
482	Kasdu
482	Nestorian
482-489	Telkeffee
490-494	MIDEAST
490-494	Middle Eastern
495-499	ARAB
495	ARAB
495	Arabia
496-499	ARABIC

500-599	SUBSAHARAN AFRICA
500-501	ANGOLAN
500	Angola
500-501	Cabinda
502-503	BENIN
502	Dahomey
502-503	Fon
504-505	BOTSWANA
504-505	Bechuana
506-507	BURUNDIAN
506-507	Urundi
508-509	CAMEROONIAN
508	Cameroon
508-509	Fako
510-511	CAPE VERDEAN
510	Brava
510-511	Cape Verde Islander
512	CENTRAL AFRICAN REPUBLIC
512	Ubangi Shari
513-514	CHADIAN
513-514	Chad
515-518	CONGOLESE
515	CONGOLESE
516-518	CONGO BRAZZAVILLE
519	DJIBOUTI
519	Afars And Issas
519	Jibuti
520-521	EQUATORIAL GUINEA
520	EQUATORIAL GUINEA
520	Rio Muni
521	CORSICO ISLANDER
521	Annobon Islander
521	Bioko Islander
521	Elobeis Islander
521	Fernando Po Islander
522-524	ETHIOPIAN
522	ETHIOPIAN
522	Abyssinia
522	Ethiopia
523-524	ERITREAN
525-526	GABONESE
525-526	Gabon
527-528	GAMBIAN
527-528	Gambia

500-599	SUBSAHARAN AFRICA—Con.
529	GHANIAN
529	Ashanti
529	Ghana
529	Gold Coast
529	TWI
530	GUINEAN
530	Guinea
531	GUINEA BISSAU
532-533	IVORY COAST
534-537	KENYAN
534-537	Kenya
538-540	LESOTHO
538-540	Basuto
541-542	LIBERIAN
541-542	Liberia
543-544	MADAGASCAN
543-544	Madagascar
545	MALAWIAN
545	Malawi
546	MALIAN
546	Mali
547-548	MAURITANIAN
547-548	Mauritania
549	MOZAMBICAN
549	Mozambique
550	NAMIBIAN
550	Namibia
551-552	NIGER
553-560	NIGERIAN
553	NIGERIAN
553	Nigeria
554	FULAH
554	Fulani
555	HAUSA
556	IBO
557	TIV
558-560	YORUBA
561-563	RWANDAN
561-563	Rwanda

500-599	SUBSAHARAN AFRICA—Con.
564-565	SENEGALESE
564	Dakar
564-565	Senegal
566-567	SIERRA LEONEAN
566-567	Sierra Leone
568	SOMALIAN
568	Somali Republic
568	Somalia
569	SWAZILAND
570-573	SOUTH AFRICAN
570	SOUTH AFRICAN
571	UNION OF SOUTH AFRICA
571	Orange Free State
571	Pretoria
571	Transkei
571	Transvaal
572	AFRIKANER
572	Boer
573	NATALIAN
574-575	ZULU
574-575	Zululand
576-581	SUDANESE
576	SUDANESE
576	Sudan
577	DINKA
578	NUER
579	FUR
579	Darfur
580-581	BAGGARA
582-585	TANZANIAN
582	TANZANIAN
582	Tanzania
583	TANGANYIKAN
584-585	ZANZIBAR ISLANDER
586-587	TOGO
586-587	Togoland
588	UGANDAN
588	Lugbara
588	Uganda
589-590	UPPER VOLTAN
589	UPPER VOLTAN
590	VOLTA
591	ZAIRIAN
591	Belgian Congo
591	Congo Kinshasa

500-599	SUBSAHARAN AFRICA—Con.
591	Zaire
592	ZAMBIAN
592	Zambia
593	ZIMBABWEAN
593	Rhodesia
593	Zimbabwe
594-595	AFRICA ISLANDS (EXCEPT MADAGASCAR)
594	AFRICA ISLANDS
594	Comoros Islander
594	Principe Islander
594	Reunion Islander
594	Sao Tome Islander
594	Seychelles Islander
594	St. Helena Islander
594	St. Pierre Islander
594	Tristan De Cunha Islander
595	MAURITIAN
595	Mauritius Islander
596-599	SUBSAHARAN AFRICAN, N.E.C.
596	CENTRAL AFRICAN
596	Central Africa
596	Middle Congo
597	EAST AFRICAN
597	East Africa
597	Galla
597	Kikuyu
597	Masai
598	WEST AFRICAN
598	West Africa
599	AFRICAN
599	Africa
600-699	**SOUTH ASIA**
600-602	AFGHANISTAN
600	AFGHANISTAN
601	BALUCHISTAN
602	PATHAN
603-606	BANGLADESHI
603	Bangladesh
603-606	East Pakistan
607-608	BHUTANESE
607-608	Bhotan
609-614	NEPALI
609-614	Nepal
615-679	ASIAN INDIAN
615	ASIAN INDIAN
615	Behar

600-699	SOUTH ASIA—Con.
615	Dravidian
615	Hindu
615	Indo Aryan
615	Sikh
616-617	KASHMIR
618-619	BENGALI
620-621	EAST INDIAN
622	ANDAMAN ISLANDER
622-623	Nocobar Islander
624-625	ANDHRA PRADESH
626-627	ASSAMESE
628-629	GOANESE
630-631	GUJARATI
632-633	KARNATAKAN
634-635	KERALAN
636-637	MADHYA PRADESH
638-639	MAHARASHTRAN
640-641	MADRAS
642-643	MYSORE
644-645	NAGALAND
646-647	ORISSA
648-649	PONDICHERRY
650-651	PUNJAB
652-653	RAJASTHAN
654-655	SIKKIM
656-657	TAMIL NADU
658-674	UTTAR PRADESH
675-679	EAST INDIES
680-689	PAKISTANI
680	Jammu
680	Pakistan
680	Sind
680-689	West Pakistan
690-694	SRI LANKAN
690	SRI LANKAN
690	Ceylon
690	Sri Lanka
691	SINGHALESE
692-694	VEDDAH
695-699	MALDIVIAN
695	Kampuchean
695-699	Maldive Islander

700-799	OTHER ASIA
700-702	BURMESE
700	BURMESE
700	Cachin
700	Karen
700	Mon
700-701	Palaung
702	SHAN

700-799	OTHER ASIA—Con.
703-705	CAMBODIAN
703	CAMBODIAN
703	Cambodia
703	Kampuchea
704-705	KHMER
706-711	CHINESE
706	CHINESE
706	China
706	Jehol
706	Sino Chinese
706	Yao
707	CANTONESE
708	MANCHURIA
709-711	MANDARIN
712-713	MONGOLIAN
712	Buriat
712-713	Mongolia
714-715	TIBETAN
714-715	Tibet
716-717	HONG KONG
716	Hong Kong Chinese
716	Eastern Archipelago
716-717	Riau Islander
718-719	MACAO
720-729	FILIPINO
720	Cebuanos
720	Philippines
720-729	Tagalog
730-739	INDONESIAN
730	INDONESIAN
730	Ascension Islander
730	Bangka
730	Billiton
730	Celebes Islander
730	Dutch East Indian
730	Indonesia
730	Molucca Islander
730	Portuguese Timor
730	Spice Islander
730-731	Sulawesi Islander
732-733	BORNEO
734-735	JAVA
736-739	SUMATRA
740-745	JAPANESE
740	JAPANESE
740	Japan
740	Nipponese
741	ISSEI

700-799	OTHER ASIA—Con.
742	NISEI
743	SANSEI
744	YONSEI
745	GONSEI
746-747	RYUKYU ISLANDER
746-747	Northern Ryukyu Islander
748-749	OKINAWAN
748-749	Okinawa
750-764	KOREAN
750	Chosen
750-764	Korea
765-767	LAOTIAN
765	LAOTIAN
765	Lao
765	Laos
766-767	MEO
768-769	HMONG
768	Hmongtana
768	Laohmong
768-769	Mong
770	MALAYSIAN
770	Malaysia
770	Sakai
770	Semang
770	Senoi
771-773	NORTH BORNEO
771	Brunei
771	Sabah
771-773	Sarawak
774-775	SINGAPOREAN
774-775	Singapore
776-781	THAI
776	THAI
776	Siam
776	Thailand
777	BLACK THAI
777	Thai Dam
778-781	WESTERN LAO
782	TAIWANESE
782	Taiwan
783-784	FORMOSAN
783-784	Formosa

700-799	OTHER ASIA—Con.
785-789	VIETNAMESE
785	VIETNAMESE
785	Anam
785	Vietnam
786	KATU
787	MA
788-789	MNONG
790-791	MONTAGNARD
790-791	Cham
792	INDO CHINESE
792	Indochina
793	EURASIAN
793	Indoeuropean
794	AMERASIAN
795-799	ASIAN
795	Asia
795-799	Orient
800-899	**PACIFIC**
800-802	AUSTRALIAN
800	AUSTRALIAN
800	Australia
800	New South Wales
800	Northern Territory
800	Queensland
800	Victoria
801	TASMANIAN
802	AUSTRALIAN ABORIGINE
803-807	NEW ZEALANDER
803-807	New Zealand
808-810	POLYNESIAN
808	POLYNESIAN
808	Norfolk Islander
809	KAPINGAMARANGAN
809	Nukuoroan
810	MAORI
811-813	HAWAIIAN
811	HAWAIIAN
811	Mixed Hawaiian
811-812	Native Hawaiian
813	PART HAWAIIAN
814, 861	SAMOAN
814	SAMOAN
814	Samoa
861	PART-SAMOAN

800-899	PACIFIC—Con.
815	TONGAN
815	Tonga
816	TOKELAUAN
816	Tokelau Islander
817	COOK ISLANDER
818	TAHITIAN
818	French Polynesia
818	Society Islander
819	NIUEAN
820	MICRONESIAN
820	Micronesia Islander
820	U.S. Trust Territory of the Pacific
821-822	GUAMANIAN
821	GUAMANIAN
821	Guam
822	CHAMORRO ISLANDER
823	SAIPANESE
823	Northern Marianas Islander
823	Saipan Islander
824	PALAUAN
825	MARSHALLESE
825	Marshall Islander
826	KOSRAEAN
827	PONAPEAN (POHNPEIAN)
827	Mokilese
827	Ngatikese
827	Pingelapese
828	TRUKESE (CHUUKESE)
828	Hall Islander
828	Mortlockese
828	Namanoulto
828	Pulapese
828	Pulasukese
828	Pulawatese
828	Tamatamian
828	Ulul
829	YAPESE
830	CAROLINIAN
830	Eauripikese
830	Falsian
830	Ifalukese
830	Lamotrekese

800-899	PACIFIC—Con.
830	Satawalese
830	Ulithian
830	Woleaian
831	KIRIBATESE
831	Gilbertese
832-833	NAURUAN
832	NAURUAN
833	TARAWA ISLANDER
834-839	TINIAN
840	MELANESIAN
841-842	FIJIAN
841-842	Fiji
843-844	NEW GUINEAN
843	NEW GUINEAN
844	PAPUAN
845	SOLOMON ISLANDER
845	British Solomons
846	NEW CALEDONIAN
847-849	VANUATUAN
847	New Hebrides Islander
847-849	NI Vanuatu
850-859	PACIFIC ISLANDER
850	Campbell Islander
850	Christmas Islander
850	Kermadec Islander
850	Midway Islander
850	Phoenix Islander
850-859	Wake Islander
860	PACIFIC
860	Oceania
861	See SAMOAN (code 814)
862	CHAMOLINIAN
863-899	RESERVE CODE
864	RESERVE CODE 1
865	RESERVE CODE 2
866	RESERVE CODE 3
867	RESERVE CODE 4
868	RESERVE CODE 5
869	RESERVE CODE 6
870	RESERVE CODE 7
871	RESERVE CODE 8
872	RESERVE CODE 9

800-899	PACIFIC—Con.
873	RESERVE CODE 10
874	RESERVE CODE 11
875	RESERVE CODE 12
876	RESERVE CODE 13
877	RESERVE CODE 14
878	RESERVE CODE 15
879	RESERVE CODE 16
880	RESERVE CODE 17
881	RESERVE CODE 18
882	RESERVE CODE 19
883	RESERVE CODE 20
884	RESERVE CODE 21
885	RESERVE CODE 22
886	RESERVE CODE 23
887	RESERVE CODE 24
888	RESERVE CODE 25
889	RESERVE CODE 26
890	RESERVE CODE 27
891	RESERVE CODE 28
892	RESERVE CODE 29
893	RESERVE CODE 30
894	RESERVE CODE 31
895	RESERVE CODE 32
896	RESERVE CODE 33
897	RESERVE CODE 34
898	RESERVE CODE 35
899	RESERVE CODE 36

900-994	NORTH AMERICA (EXCEPT HISPANIC)
900-912	AFRICAN AMERICAN
900	AFRO AMERICAN
901	AFRO
902	AFRICAN AMERICAN
903	BLACK
904	NEGRO
905	NONWHITE
906	COLORED
906	Bilalian
906	Nigritian
907	CREOLE
908-912	MULATTO
913-923	NATIVE AMERICAN
913	CENTRAL AMERICAN INDIAN
914-918	SOUTH AMERICAN INDIAN
919	CHEROKEE
920	AMERICAN INDIAN
921	ALEUT
922	ESKIMO
923	INUIT
924-928	WHITE
924	WHITE
924	Caucasian

900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.
925	ANGLO
925	Swamp Yankee
925-926	Wasp
927	APPALACHIAN
927	Hillbilly
928	ARYAN
929	PENNSYLVANIA GERMAN
929	Amish
929	Pennsylvania Dutch
929	Mennonite
929	Hutterite
930	GREENLANDER
931-934	CANADIAN
931	CANADIAN
931	Albertan
931	British Columbia
931	Canada
931	Labrador
931	Manitoba
931	New Brunswick
931	Ontario
931	Prince Edward Islander
931	Saskatchewan
931-932	Yukon
933	NEWFOUNDLAND
934	NOVA SCOTIA
935	FRENCH CANADIAN
935	Canadien
935	Franco American
935	Quebec
935	Quebecois
936-938	ACADIAN/CAJUN
936	ACADIAN
936	Acadia
937-938	CAJUN
939	AMERICAN
940-992	UNITED STATES
940	UNITED STATES
941	ALABAMA
942	ALASKA
943	ARIZONA
944	ARKANSAS
945	CALIFORNIA
946	COLORADO
947	CONNECTICUT
948	DISTRICT OF COLUMBIA
949	DELAWARE
950	FLORIDA

900-994	NORTH AMERICA (EXCEPT HISPANIC)—Con.
951	IDAHO
952	ILLINOIS
953	INDIANA
954	IOWA
955	KANSAS
956	KENTUCKY
957	LOUISIANA
958	MAINE
959	MARYLAND
960	MASSACHUSETTS
961	MICHIGAN
962	MINNESOTA
963	MISSISSIPPI
964	MISSOURI
965	MONTANA
966	NEBRASKA
967	NEVADA
968	NEW HAMPSHIRE
969	NEW JERSEY
970	NEW MEXICO
971	NEW YORK
972	NORTH CAROLINA
973	NORTH DAKOTA
974-975	OHIO
976	OKLAHOMA
977	OREGON
978	PENNSYLVANIA
979	RHODE ISLAND
980	SOUTH CAROLINA
981	SOUTH DAKOTA
982	TENNESSEE
983	TEXAS
984	UTAH
985	VERMONT
986	VIRGINIA
987	WASHINGTON
988	WEST VIRGINIA
989	WISCONSIN
990	WYOMING
991-992	GEORGIA
993	SOUTHERNER
994	NORTH AMERICAN
994	North America

995-999	RESIDUAL AND NO RESPONSE
995	MIXTURE
996-997	UNCODABLE ENTRIES
998	OTHER RESPONSES
998	Adventist
998	Agnostic
998	Apostolic
998	Ashkenazim Jew
998	Atheist
998	Bahai
998	Baptist
998	Brethren
998	Buddhist
998	Catholic
998	Christian
998	Christian Scientist
998	Congregationalist
998	Episcopal
998	Evangelist
998	Hebrew
998	Holiness
998	Islam
998	Jain
998	Jehovahs Witnesses
998	Jewish
998	Latter Day Saints
998	Lutheran
998	Methodist
998	Mormon
998	Muslim
998	Orthodox
998	Pentecostal
998	Presbyterian
998	Protestant
998	Quaker
998	Roman Catholic
998	Salvation Army
998	Sephardic
998	Seventh Day Adventist
998	Shiite
998	Unitarian
998	Yiddish
998	Zoroastrian
999	NOT REPORTED

GROUP QUARTERS

This section contains the alphabetical code list for group quarters. The group quarters code list was used by special place prelist enumerators to classify each type of group quarters. Each group quarters code is a two-digit number followed by either an "I" (institutional) or "N" (noninstitutional) suffix. The group quarters codes listed in the second column are for staff residing in group quarters.

GQ codes	Staff residents GQ codes	
87-N	--	**A. College Quarters Off Campus** (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		B. Correctional Institutions
22-I	22-N	1. *Federal Detention Centers*: Including Park Police, Bureau of Indian Affairs, Immigration and Naturalization Service (INS) centers, INS detention centers operated within local jails, and State and Federal prisons. INS detention centers also include INS Federal Alien Detention Facilities, INS Service Processing Centers, and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings and aliens who require custodial departures.
21-I	21-N	2. *Federal Prisons*: Including criminally insane wards operated by a Federal prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4. For detention centers within Federal prisons, see B1 above.
23-I	23-N	3. *Halfway Houses*: Operated for correctional purposes, including probation and restitution centers, prerelease centers, and community-residential treatment centers.
27-I	27-N	4. *Local (County/City) Jails and Other Local Confinement Facilities*: Including work farms used to hold persons awaiting trial or serving time on relatively short sentences (usually of a year or less), and jails run by private businesses under contract.
95-I	95-N	5. *Military Stockades, Jails*
28-I	28-N	6. *Police Lockups*: Temporary-holding facilities or other facilities that hold persons only if they have not been formally charged in court (usually detained less than 48 hours).
24-I	24-N	7. *State Prisons*: Prisons run by private businesses (under contract); including criminally insane wards operated by a State prison within a mental or general hospital. If ward is not operated by a prison, code according to paragraph H4.
20-I	20-N	8. *Other Types of Correctional Institutions*: Including private correctional facilities and correctional facilities specifically for alcohol/drug abuse. (Use only as a last resort if no other type code applies.)
91-N	--	**C. Crews of Civilian Vessels**
		D. Dormitories
92-N	--	1. *Agriculture Workers' Dormitories on Farms*: Including migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms including those on "tree farms."
87-N	--	2. *College Student Dormitories, and Fraternity and Sorority Houses (on campus)*: Including residential quarters for those in religious orders.
86-N	--	3. *Dormitories for Nurses and Interns in General and Military Hospitals*
97-N	--	4. *Military Quarters on Base*: Including barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel.
93-N	--	5. *Other Workers' Dormitories*: Including logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclave (Alaska only), Alaskan pipeline camps, nonfarm migratory workers' camps, such as workers who lay oil and gas pipelines.
		6. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.

GQ codes	Staff residents GQ codes	
		E. Elderly: Skilled nursing facilities, intermediate care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, nursing, convalescent, and rest homes including soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care.
		NOTE: Do not include dormitories for nurses' and interns'; see paragraph D3.
		1. *Public Ownership*
62-I	62-N	a. Federal ownership: Including Veterans' Administration, domiciliary homes, and U.S. Naval homes.
63-I	63-N	b. State ownership
64-I	64-N	c. County or city ownership
65-I	65-N	d. Don't know if Federal, State, or county-city ownership (Use only as a last resort if no other type code applies.)
		2. *Private Ownership*
66-I	66-N	a. Private not-for-profit
67-I	67-N	b. Private for profit
60-I	60-N	c. Don't know if for profit or not (Use only as a last resort if no other type code applies.)
61-I	61-N	3. *Don't Know If Federal, State, Local, or Private Ownership* (Use only as a last resort if no other type code applies.)
		F. Emergency Shelter/Street Night Enumeration ("S-NIGHT")
82-N	--	1. *Shelters for the Homeless with Sleeping Facilities*: Including emergency housing, missions and flophouses, Salvation Army shelters, hotels and motels charging $12 or less a night (excluding taxes), hotels and motels used entirely for homeless persons, the group of rooms in hotels and motels used partially for the homeless, and similar places known to have persons with no usual home elsewhere who stay overnight.
83-N	--	2. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles.
		3. *Street Enumeration* – Predesignated Sites
84-N	--	a. Nonstructure locations, other than commerce places: Including street corners, parks, bridges, abandoned and boarded-up buildings, noncommercial campsites ("tent cities"), and similar sites.
85-N	--	b. Commerce places: Including railroad stations, airports, bus depots, subway stations, all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, and other similar predesignated sites.
75-N	--	4. *Shelters for Abused Women* (Shelters against domestic violence)
		G. Group Homes: Including those providing community-based care and supportive services such as halfway houses for the groups listed below. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
76-N	--	1. *Drug/Alcohol Abuse*: Including group homes, detoxification centers, quarterway houses such as residential treatment facilities that work closely with an accredited hospital, halfway houses, recovery homes for ambulatory, and mentally competent recovering alcoholics who may be re-entering the work force. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
29-N	--	2. *Maternity* (Homes for unwed mothers) (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
		3. *Mentally Ill*
16-N	--	a. Federal
17-N	--	b. State
18-N	--	c. Private
19-N	--	d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)

GQ codes	Staff residents GQ codes	
		G. Group Homes—Con.
		4. *Mentally Retarded*
56-N	–	a. Federal
57-N	–	b. State
58-N	–	c. Private
59-N	–	d. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		5. *Physically Handicapped*
72-N	–	a. Public ownership
73-N	–	b. Private ownership
74-N	–	c. Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		6. *Runaway, Neglected, and Homeless Children*: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.
79-N	–	7. *Other Group Homes*: Including communes, foster care homes and job corps centers with 10 or more unrelated children. Do not include emergency housing for persons with no other home. See paragraph F1. (Use only as a last resort if no other type code applies.)
		H. Hospitals/Schools for the Handicapped
86-N	–	1. *Dormitories for Nurses and Interns in General and Military Hospitals*
70-I	70-N	2. *Drug/Alcohol Abuse*: Including hospitals, and hospital wards in psychiatric and general hospitals. These facilities/wards are in a medical setting equipped and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical/nursing care from a formally trained staff. For group homes, see paragraph G.
		3. *Hospitals for Chronically Ill*
54-I	86-N	a. Military hospitals or wards for chronically ill
55-I	86-N	b. Other hospitals or wards for chronically ill: Including tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices; wards for patients with Hansen's Disease (leprosy) and other incurable diseases; and other unspecified wards for the chronically ill. Do not include mental or alcohol/drug abuse hospitals or wards.
		4. *Mentally Ill (Psychiatric)*: Hospitals or wards, including wards for the criminally insane not operated by a prison and psychiatric wards of general hospitals and veterans' hospitals. This is a medical setting designed for the treatment of mental illness. Patients receive supervised and medical/nursing care from a formally trained staff. Code wards for the mentally retarded according to paragraph H5. Do not include hospitals or wards for alcohol/drug abuse; see paragraph H2.
46-I	46-N	a. Federal ownership
47-I	47-N	b. State or local ownership
48-I	48-N	c. Private ownership
45-I	45-N	d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)
		5. *Mentally Retarded*: Schools, hospitals, wards, including wards in hospitals for the mentally ill, and intermediate care facilities for the mentally retarded. This is in a suitably-equipped setting and with supervised and medical/nursing care from a formally trained staff.
41-I	41-N	a. Federal ownership
43-I	43-N	b. State or local ownership

GQ codes	Staff residents GQ codes	
		H. Hospitals/Schools for the Handicapped—Con.
42-I	42-N	c. Private ownership
40-I	40-N	d. Don't know if Federal, State, local, or private ownership (Use only as a last resort if no other type code applies.)
		6. *Physically Handicapped*: Including schools, hospitals, or wards in a suitably-equipped medical setting and designed primarily for the physically handicapped who receive supervised care and medical/nursing care from a formally trained staff.
		a. Institutions for the deaf
38-I	38-N	(1) Public ownership
39-I	39-N	(2) Private ownership
37-I	37-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		b. Institutions for the blind
35-I	35-N	(1) Public ownership
36-I	36-N	(2) Private ownership
34-I	34-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
		c. Orthopedic wards and institutions for physically handicapped: Including accident victims, and persons with polio, cerebral palsy, and muscular dystrophy.
32-I	32-N	(1) Public ownership
33-I	33-N	(2) Private ownership
31-I	31-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
53-I	86-N	7. *Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere*: Including maternity, neonatal, pediatric (including wards for boarder babies), military, surgical wards, and other purpose wards of hospitals and wards for infectious diseases.
		Note: Do not include long-term care rooms for the elderly in wards or buildings on the grounds of hospitals, see paragraph E.
		I. Hotels/Motels: "S-Night" locations, see paragraph F.
		J. Juvenile Institutions: Including homes, schools, and hospitals.
		1. *Long-Term Care* (length of stay usually more than 30 days)
		a. Neglected, abused, and dependent children: Including orphanages, homes, or residential care.
03-I	03-N	(1) Public ownership
04-I	04-N	(2) Private ownership
02-I	02-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)
05-I	05-N	b. Emotionally disturbed children: Including residential treatment centers (psychiatric care provided).
		c. Delinquent children: Placed by court, parents, or social service agency, in residential training school or home, including industrial schools, camps, or farms.
12-I	12-N	(1) Public ownership: Committed by courts.
15-I	15-N	(2) Private ownership: Some are committed by courts, others are referred by parents or social service agencies because of delinquent behavior.
11-I	11-N	(3) Don't know if public/private ownership (Use only as a last resort if no other type code applies.)

GQ codes	Staff residents GQ codes	
		J. Juvenile Institutions: Including homes, schools, and hospitals—Con.
		2. *Short-term* (length of stay usually 30 days or less)
10-I	10-N	a. Delinquent children: Including those receiving temporary care in detention or diagnostic centers pending court disposition of case.
		b. Runaway, neglected, and homeless children: Including emergency shelters/group homes which provide temporary sleeping facilities for juveniles, see paragraph F2.
01-I	01-N	3. *Don't Know Type of Juvenile Institution*: Including homes, schools, hospitals, or wards for children. (Use only as a last resort if no other type code applies.)
		K. Military Quarters
		1. *On Base*
97-N	–	a. Barracks, bachelor officers quarters, unaccompanied officer personnel housing, unaccompanied enlisted personnel housing, and similar noninstitutional group living quarters for military personnel
96-N	–	b. Transient quarters (noninstitutional) for temporary residents (military or civilian)
86-N	–	c. Dormitories for nurses and interns in general military hospitals
54-I	86-N	d. Hospitals or wards for chronically ill
95-I	95-N	e. Stockades and jails
98-N	–	2. *Military Ships*
90-N	–	**L. Natural Disaster:** Including those temporarily displaced by a natural disaster, such as "Hurricane Hugo."
89-N	–	**M. Religious Group Quarters:** Including convents, monasteries, and rectories. Members of religious orders who live in a dormitory at a hospital or college were classified according to the type of place where they live, such as 86-N if at a general hospital, or 87-N if at a college. (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
80-N	–	**N. Rooming and Boarding Houses** (Code only if occupied by 10 or more unrelated persons. If less than 10, these are classified as a housing unit.)
		O. Schools for the Handicapped: See paragraphs H5 and H6.
		P. Shelter/Street Night Enumeration ("S-Night"): See paragraph F.
94-N	–	**Q. Other Nonhousehold Living Situations:** Including places not covered by other GQ codes shown herein, such as commercial or public campgrounds, campgrounds at racetracks, fairs, and carnivals, hostels, and similar transient sites. (Ask usual home elsewhere in these places. Include as living there only persons who have no usual home elsewhere.)
		R. Staff of Institutions: Including staff personnel residing in group quarters. Code according to the appropriate type of group quarters shown under the column "Staff residents GQ codes." Staff residents are coded with an "N" suffix.
		Note: Do not assign GQ codes to staff residents in group quarters where a "–" is shown.

HISPANIC ORIGIN

This section contains the code list used to code write-in entries for the Hispanic origin question. A set of three-digit numerical codes was used to identify FOSDIC circles for the Hispanic origin categories listed in the Hispanic origin item on the questionnaire. These codes and their respective Hispanic origin categories are: Not Spanish/Hispanic-001, Mexican-002, Puerto Rican-003, Cuban-004, and Other Spanish/Hispanic-005. For sample (long-form) questionnaires, a separate set of three-digit numerical codes was used to code write-in entries provided by respondents to the "Yes, other Spanish/Hispanic" category of the Hispanic origin item. The list of origins with their associated three-digit codes is shown below. "n.e.c." is the abbreviation for not elsewhere classified.

000-001, 006-199	**NOT SPANISH/HISPANIC**
000-001	Not Spanish/Hispanic (FOSDIC circle)
006-199	Not Spanish/Hispanic
200-209	**SPANIARD**
200	Spaniard
201	Andalusian
202	Asturian
203	Castillian
204	Catalonian
205	Balearic Islander
206	Gallego
207	Valencian
208	Canarian
209	Spanish Basque
002, 210-220	**MEXICAN**
002	Mexican (FOSDIC circle)
210	Mexican
211	Mexican American
212	Mexicano
213	Chicano
214	La Raza
215	Mexican American Indian
216	Reserve Spanish/Hispanic 1
217	Reserve Spanish/Hispanic 2
218	Mexico
219	Reserve Spanish/Hispanic 3
220	Reserve Spanish/Hispanic 4
221-230	**CENTRAL AMERICAN**
221	Costa Rican
222	Guatemalan
223	Honduran
224	Nicaraguan
225	Panamanian
226	Salvadoran
227	Central American
228	Central American Indian
229	Canal Zone
230	Reserve Spanish/Hispanic 5
231-249	**SOUTH AMERICAN**
231	Argentinean
232	Bolivian
233	Chilean
231-249	**SOUTH AMERICAN—Con.**
234	Colombian
235	Ecuadorian
236	Paraguayan
237	Peruvian
238	Uruguayan
239	Venezuelan
240	Reserve Spanish/Hispanic 6
241	Reserve Spanish/Hispanic 7
242	Reserve Spanish/Hispanic 8
243	Reserve Spanish/Hispanic 9
244	Reserve Spanish/Hispanic 10
245	Reserve Spanish/Hispanic 11
246	Reserve Spanish/Hispanic 12
247	South American Indian
248	Criollo
249	South American
250-260	**LATIN AMERICAN**
250	Latin American
251	Latin
252	Latino
253	Reserve Spanish/Hispanic 13
254	Reserve Spanish/Hispanic 14
255	Reserve Spanish/Hispanic 15
256	Reserve Spanish/Hispanic 16
257	Reserve Spanish/Hispanic 17
258	Reserve Spanish/Hispanic 18
259	Reserve Spanish/Hispanic 19
260	Reserve Spanish/Hispanic 20
003, 261-270	**PUERTO RICAN**
003	Puerto Rican (FOSDIC circle)
261	Puerto Rican
262	Reserve Spanish/Hispanic 21
263	Reserve Spanish/Hispanic 22
264	Reserve Spanish/Hispanic 23
265	Reserve Spanish/Hispanic 24
266	Reserve Spanish/Hispanic 25
267	Reserve Spanish/Hispanic 26
268	Reserve Spanish/Hispanic 27
269	Reserve Spanish/Hispanic 28
270	Reserve Spanish/Hispanic 29

004, 271-274	CUBAN
004	Cuban (FOSDIC circle)
271	Cuban
272	Reserve Spanish/Hispanic 30
273	Reserve Spanish/Hispanic 31
274	Reserve Spanish/Hispanic 32

275-289	DOMINICAN
275	Dominican
276	Reserve Spanish/Hispanic 33
277	Reserve Spanish/Hispanic 34
278	Reserve Spanish/Hispanic 35
279	Reserve Spanish/Hispanic 36
280	Reserve Spanish/Hispanic 37
281	Reserve Spanish/Hispanic 38
282	Reserve Spanish/Hispanic 39
283	Reserve Spanish/Hispanic 40
284	Reserve Spanish/Hispanic 41
285	Reserve Spanish/Hispanic 42

275-289	DOMINICAN—Con.
286	Reserve Spanish/Hispanic 43
287	Reserve Spanish/Hispanic 44
288	Reserve Spanish/Hispanic 45
289	Reserve Spanish/Hispanic 46

005, 290-999	OTHER SPANISH/HISPANIC
005	Other Spanish/Hispanic (FOSDIC circle)
290	Hispanic
291	Spanish
292	Californio
293	Tejano
294	Nuevo Mexicano
295	Spanish American
296	Spanish American Indian
297	Meso American Indian
298	Mestizo
299-999	Other Spanish/Hispanic, n.e.c.

INDUSTRY

The list presents the industrial classification developed for the 1990 Census of Population and Housing. There are 235 categories for the employed, with 1 additional category for the experienced unemployed, and 7 additional categories for the Armed Forces. These categories are aggregated into 13 major groups. The classification is developed from the 1987 Standard Industrial Classification. "n.e.c." is the abbreviation for not elsewhere classified.

000-039	**AGRICULTURE, FORESTRY, AND FISHERIES**
000-010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
013-020	Landscape and horticultural services (078)
021-030	Agricultural services, n.e.c. (071, 072, 075, 076)
031	Forestry (08)
032-039	Fishing, hunting, and trapping (09)
040-059	**MINING**
040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
043-059	Nonmetallic mining and quarrying, except fuel (14)
060-099	**CONSTRUCTION (15, 16, 17)**
100-399	**MANUFACTURING**
100-229	Nondurable Goods
100-129	Food and kindred products
100	Meat products (201)
101	Dairy products (202)
102-109	Canned, frozen and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112-119	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207, 209)
122-129	Not specified food industries
130-131	Tobacco manufactures (21)
132-150	Textile mill products
132-139	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)
142-149	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)
151-159	Apparel and other finished textile products
151	Apparel and accessories, except knit (231-238)
152-159	Miscellaneous fabricated textile products (239)
160-170	Paper and allied products
160	Pulp, paper, and paperboard mills (261-263)
161	Miscellaneous paper and pulp products (267)
162-170	Paperboard containers and boxes (265)

100-399	**MANUFACTURING—Con.**
171-179	Printing, publishing, and allied industries
171	Newspaper publishing and printing (271)
172-179	Printing, publishing, and allied industries, except newspapers (272-279)
180-199	Chemicals and allied products
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182-189	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
191	Agricultural chemicals (287)
192-199	Industrial and miscellaneous chemicals (281, 286, 289)
200-209	Petroleum and coal products
200	Petroleum refining (291)
201-209	Miscellaneous petroleum and coal products (295, 299)
210-219	Rubber and miscellaneous plastics products
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212-219	Miscellaneous plastics products (308)
220-229	Leather and leather products
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222-229	Leather products, except footwear (315-317, 319)
230-399	Durable Goods
230-241	Lumber and wood products, except furniture
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232-240	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
242-249	Furniture and fixtures (25)
250-269	Stone, clay, glass, and concrete products
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324, 327)
252-260	Structural clay products (325)
261	Pottery and related products (326)
262-269	Miscellaneous nonmetallic mineral and stone products (328, 329)
270-309	Metal industries
270	Blast furnaces, steelworks, rolling and finishing mills (331)
271	Iron and steel foundries (332)
272-279	Primary aluminum industries (3334, part 334, 3353-3355, 3363, 3365)
280	Other primary metal industries (3331, 3339, part 334, 3351, 3356, 3357, 3364, 3366, 3369, 339)
281	Cutlery, handtools, and general hardware (342)
282-289	Fabricated structural metal products (344)
290	Screw machine products (345)
291	Metal forgings and stampings (346)
292-299	Ordnance (348)
300	Miscellaneous fabricated metal products (341, 343, 347, 349)
301-309	Not specified metal industries

100-399	**MANUFACTURING**—Con.
310-339	Machinery and computing equipment
310	Engines and turbines (351)
311	Farm machinery and equipment (352)
312-319	Construction and material handling machines (353)
320	Metalworking machinery (354)
321	Office and accounting machines (3578, 3579)
322-330	Computers and related equipment (3571-3577)
331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332-339	Not specified machinery
340-350	Electrical machinery, equipment, and supplies
340	Household appliances (363)
341	Radio, TV, and communication equipment (365, 366)
342-349	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
350	Not specified electrical machinery, equipment, and supplies
351-370	Transportation equipment
351	Motor vehicles and motor vehicle equipment (371)
352-359	Aircraft and parts (372)
360	Ship and boat building and repairing (373)
361	Railroad locomotives and equipment (374)
362-369	Guided missiles, space vehicles, and parts (376)
370	Cycles and miscellaneous transportation equipment (375, 379)
371-389	Professional and photographic equipment, and watches
371	Scientific and controlling instruments (381, 382 except 3827)
372-379	Medical, dental, and optical instruments and supplies (3827, 384, 385)
380	Photographic equipment and supplies (386)
381-389	Watches, clocks, and clockwork operated devices (387)
390	Toys, amusement, and sporting goods (394)
391	Miscellaneous manufacturing industries (39 except 394)
392-399	Not specified manufacturing industries
400-499	**TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES**
400-439	Transportation
400	Railroads (40)
401	Bus service and urban transit (41, except 412)
402-409	Taxicab service (412)
410	Trucking service (421, 423)
411	Warehousing and storage (422)
412-419	U.S. Postal Service (43)
420	Water transportation (44)
421	Air transportation (45)
422-431	Pipe lines, except natural gas (46)
432-439	Services incidental to transportation (47)
440-449	Communications
440	Radio and television broadcasting and cable (483, 484)
441	Telephone communications (481)
442-449	Telegraph and miscellaneous communications services (482, 489)
450-499	Utilities and sanitary services
450	Electric light and power (491)

400-499 TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

451	Gas and steam supply systems (492, 496)
452-469	Electric and gas, and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472-499	Not specified utilities

500-579 WHOLESALE TRADE

500-539	Durable Goods
500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502-509	Lumber and construction materials (503)
510	Professional and commercial equipment and supplies (504)
511	Metals and minerals, except petroleum (505)
512-520	Electrical goods (506)
521-529	Hardware, plumbing and heating supplies (507)
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532-539	Miscellaneous wholesale, durable goods (509 except 5093)
540-579	Nondurable Goods
540	Paper and paper products (511)
541	Drugs, chemicals and allied products (512, 516)
542-549	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm-product raw materials (515)
552-559	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562-570	Miscellaneous wholesale, nondurable goods (5192-5199)
571-579	Not specified wholesale trade

580-699 RETAIL TRADE

580	Lumber and building material retailing (521, 523)
581	Hardware stores (525)
582-589	Retail nurseries and garden stores (526)
590	Mobile home dealers (527)
591	Department stores (531)
592-599	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602-609	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612-619	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
623-629	Apparel and accessory stores, except shoe (56, except 566)
630	Shoe stores (566)
631	Furniture and home furnishings stores (571)
632	Household appliance stores (572)
633-639	Radio, TV, and computer stores (5731, 5734)
640	Music stores (5735, 5736)
641	Eating and drinking places (58)
642-649	Drug stores (591)
650	Liquor stores (592)

580-699	**RETAIL TRADE—Con.**
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652-659	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Gift, novelty, and souvenir shops (5947)
662	Sewing, needlework and piece goods stores (5949)
663-669	Catalog and mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672-680	Fuel dealers (598)
681	Retail florists (5992)
682-690	Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691-699	Not specified retail trade
700-720	**FINANCE, INSURANCE, AND REAL ESTATE**
700	Banking (60 except 603 and 606)
701	Savings institutions, including credit unions (603, 606)
702-709	Credit agencies, n.e.c. (61)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712-720	Real estate, including real estate-insurance offices (65)
721-760	**BUSINESS AND REPAIR SERVICES**
721	Advertising (731)
722-730	Services to dwellings and other buildings (734)
731	Personnel supply services (736)
732-739	Computer and data processing services (737)
740	Detective and protective services (7381, 7382)
741	Business services, n.e.c. (732, 733, 735, 7383-7389)
742-749	Automotive rental and leasing, without drivers (751)
750	Automotive parking and carwashes (752, 7542)
751	Automotive repair and related services (753, 7549)
752-759	Electrical repair shops (762, 7694)
760	Miscellaneous repair services (763, 764, 7692, 7699)
761-799	**PERSONAL SERVICES**
761	Private households (88)
762-769	Hotels and motels (701)
770	Lodging places, except hotels and motels (702, 703, 704)
771	Laundry, cleaning, and garment services (721 except part 7219)
772-779	Beauty shops (723)
780	Barber shops (724)
781	Funeral service and crematories (726)
782-789	Shoe repair shops (725)
790	Dressmaking shops (part 7219)
791-799	Miscellaneous personal services (722, 729)
800-811	**ENTERTAINMENT AND RECREATION SERVICES**
800	Theaters and motion pictures (781-783, 792)
801	Video tape rental (784)
802-809	Bowling centers (793)
810-811	Miscellaneous entertainment and recreation services (791, 794, 799)

812-899	**PROFESSIONAL AND RELATED SERVICES**
812-819	Offices and clinics of physicians (801, 803)
820	Offices and clinics of dentists (802)
821	Offices and clinics of chiropractors (8041)
822-829	Offices and clinics of optometrists (8042)
830	Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831	Hospitals (806)
832-839	Nursing and personal care facilities (805)
840	Health services, n.e.c. (807, 808, 809)
841	Legal services (81)
842-849	Elementary and secondary schools (821)
850	Colleges and universities (822)
851	Vocational schools (824)
852-859	Libraries (823)
860	Educational services, n.e.c. (829)
861	Job training and vocational rehabilitation services (833)
862	Child day care services (part 835)
863-869	Family child care homes (part 835)
870	Residential care facilities, without nursing (836)
871	Social services, n.e.c. (832, 839)
872	Museums, art galleries, and zoos (84)
873-879	Labor unions (863)
880	Religious organizations (866)
881	Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882-889	Engineering, architectural, and surveying services (871)
890	Accounting, auditing, and bookkeeping services (872)
891	Research, development, and testing services (873)
892	Management and public relations services (874)
893-899	Miscellaneous professional and related services (899)
900-939	**PUBLIC ADMINISTRATION**
900	Executive and legislative offices (911-913)
901-909	General government, n.e.c. (919)
910-920	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922-929	Administration of human resources programs (94)
930	Administration of environmental quality and housing programs (95)
931	Administration of economic programs (96)
932-939	National security and international affairs (97)
940-991	**ACTIVE DUTY MILITARY**
940-959	Armed Forces
940	Army
941	Air Force
942-949	Navy
950	Marines
951	Coast Guard
952-959	Armed Forces, Branch not specified
960-991	Military Reserves or National Guard
992-999	**EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY**
992-999	Unemployed, last worked 1984 or earlier

LANGUAGE

This section contains the code list of languages other than English spoken at home. Each entry was given a three-digit code. If more than one language was reported, only the first language reported was coded. The languages were coded originally into nearly 400 different language categories. The following list contains the principal name for each code. Since many languages and language groups are known by several names, additional illustrative names are shown for some languages. A complete list of all reported language names and categories into which they were coded may be obtained from the Census Bureau at the cost of reproduction.

000-600	NOT IN UNIVERSE
601	JAMAICAN CREOLE
602	KRIO
603	HAWAIIAN PIDGIN
604	PIDGIN
605	GULLAH
606	SARAMACCA
607	GERMAN
607	Austrian
607	Swiss
608	PENNSYLVANIA DUTCH
609	YIDDISH
610	DUTCH
610	Flemish
611	AFRIKAANS
612	FRISIAN
613	LUXEMBOURGIAN
614	SWEDISH
615	DANISH
616	NORWEGIAN
617	ICELANDIC
618	FAROESE
619	ITALIAN
620	FRENCH
620	Walloon
621	PROVENCAL
622	PATOIS
623	FRENCH CREOLE
623	Haitian Creole
624	CAJUN
625	SPANISH
626	CATALONIAN
627	LADINO
628	PACHUCO
629	PORTUGUESE
630	PAPIA MENTAE
631	RUMANIAN
632	RHAETO-ROMANIC
632	Romansch
633	WELSH
634	BRETON
635	IRISH GAELIC
636	SCOTTIC GAELIC
637	GREEK
638	ALBANIAN
639	RUSSIAN
640	BIELORUSSIAN
641	UKRAINIAN
642	CZECH
643	KASHUBIAN
644	LUSATIAN
644	Sorbian
644	Wendish
645	POLISH
646	SLOVAK
647	BULGARIAN
648	MACEDONIAN
649	SERBOCROATIAN
649	Slavic
649	Yugoslav
650	CROATIAN
651	SERBIAN
652	SLOVENE
653	LITHUANIAN
654	LETTISH
655	ARMENIAN
656	PERSIAN
656	Farsi
656	Pushto
657	PASHTO
657	Afghan
658	KURDISH
659	BALOCHI
660	TADZHIK
661	OSSETE
662	SANSKRIT
663	HINDI AND RELATED
663	Hindi
663	India
663	Urdu

664	BENGALI
665	PANJABI
666	MARATHI
667	GUJARATHI
668	BIHARI
669	RAJASTHANI
670	ORIYA
671	BHILI
672	ASSAMESE
673	KASHMIRI
674	NEPALI
675	SINDHI
676	MALDIVIAN
677	SINHALESE
678	ROMANY
679	FINNISH
680	ESTONIAN
681	LAPP
682	HUNGARIAN
683	OTHER URALIC LANGUAGES
683	Cheremis
683	Mordvin
683	Samoyed
683	Ugric
683	Yenisei
684	CHUVASH
685	KARAKALPAK
686	KAZAKH
687	KIRGHIZ
688	KARACHAY
688	Tatar
689	UIGHUR
689	Uzbek
690	AZERBAIJANI
691	TURKISH
692	TURKMEN
693	YAKUT
694	MONGOLIAN
695	TUNGUS
696	CAUCASIAN
696	Avar
696	Georgian
697	BASQUE
698	DRAVIDIAN
699	BRAHUI
700	GONDI
701	TELUGU
702	KANNADA
703	MALAYALAM
704	TAMIL
705	KURUKH

706	MUNDA
707	BURUSHASKI
708	CHINESE
708	Cantonese
708	Yueh
708	Min
709	HAKKA
709	Fukien
709	K'echia
710	KAN
710	Nan Chang
711	HSIANG
711	Hunan
712	MANDARIN
712	Honan
712	Hopei
712	Pei
713	FUCHOW
713	Min Pei
714	FORMOSAN
714	Min Nan
715	WU
716	TIBETAN
717	BURMESE
717	Tonkin
718	KAREN
719	KACHIN
720	THAI
720	Kam
720	Lao
720	Laotian
720	Tung
721	MIAO-YAO
722	MIAO
722	Hmong
723	JAPANESE
724	KOREAN
725	AINU
726	MON-KHMER
726	Cambodian
726	Khmer
726	Mon

727	SIBERIAN LANGUAGES, not elsewhere classified
728	VIETNAMESE
729	MUONG
730	BUGINESE
731	MOLUCCAN
732	INDONESIAN
733	ACHINESE
734	BALINESE
735	CHAM
736	JAVANESE
737	MADURESE
738	MALAGASY
739	MALAY
740	MINANGKABAU
741	SUNDANESE
742	TAGALOG
742	Filipino
743	BISAYAN
743	Ilongo
744	SEBUANO
745	PANGASINAN
746	ILOCANO
746	Igorot
747	BIKOL
748	PAMPANGAN
749	GORONTALO
750	MICRONESIAN
751	CAROLINIAN
752	CHAMORRO
753	GILBERTESE
754	KUSAIEAN
755	MARSHALLESE
756	MOKILESE
757	MORTLOCKESE
758	NAURUAN
759	PALAU
760	PONAPEAN
761	TRUKESE
762	ULITHEAN
763	WOLEAI-ULITHI
763	Eauripik
763	Ifaluk
764	YAPESE
765	INDO-PACIFIC LANGUAGES, not elsewhere classified
765	Melanesian
766	POLYNESIAN
767	SAMOAN
768	TONGAN
769	NIUEAN
770	TOKELAUAN
771	FIJIAN
772	MARQUESAN
773	RAROTONGAN
774	MAORI
775	NUKUORO
776	HAWAIIAN
777	ARABIC
778	HEBREW
779	SYRIAC
779	Aramaic
779	Assyrian
779	Chaldean
780	AMHARIC
780	Tigre
781	BERBER
782	CHADIC
782	Hamitic
782	Hausa
783	CUSHITE
783	Beja
783	Somali
784	SUDANIC
784	Dinka
784	Gambai
784	Sudanese
785	NILOTIC
785	Acholi
785	Luo
785	Nuer
786	NILO-HAMITIC
786	Bari
786	Masai
787	NUBIAN
788	SAHARAN
789	NILO-SAHARAN
789	Fur
789	Songhai
790	KHOISAN
790	Bushman
791	SWAHILI
792	BANTU
792	Bembe

792	Botswana
792	Chaga
792	Fan
792	Kikuyu
792	Kongo
792	Luganda
792	Naebele
792	Xhosa
792	Zulu
793	MANDE
793	Kpelle
793	Mandingo
794	FULANI
795	GUR
795	Dagomba
796	KRU
796	Damomeen
796	Egbo
796	Ibo
796	Nigerian
796	Yoruba
797	EFIK
797	Ibiblo
798	MBUM AND RELATED
799	AFRICAN, not further specified
800	ALEUT
801	PACIFIC GULF YUPIK
801	Pacific Eskimo
802	ESKIMO
803	INUPIK
803	Inuit
804	SAINT LAWRENCE ISLAND YUPIK
805	YUPIK
806	ALGONQUIAN
807	ARAPAHO
808	ATSINA
808	Gros Ventre
809	BLACKFOOT
810	CHEYENNE
811	CREE
812	DELAWARE
812	Lenni-Lenape
813	FOX
813	Sac
814	KICKAPOO
815	MENOMINI
816	FRENCH CREE
816	Metis
817	MIAMI
818	MICMAC
819	OJIBWA
819	Chippewa
820	OTTAWA
821	PASSAMAQUODDY
821	Malecite
822	PENOBSCOT
823	ABNAKI
824	POTAWATOMI
825	SHAWNEE
826	WIYOT
827	YUROK
828	KUTENAI
829	MAKAH
830	KWAKIUTL
830	Quileute
831-832	NOOTKA
833	LOWER CHEHALIS
834	UPPER CHEHALIS
834	Chehalis
834	Satsop
835	CLALLAM
836	COEUR D'ALENE
836	Skitsamish
837	COLUMBIA
837	Chelan
837	Wenatchee
838	COWLITZ
839	SALISH
839	Flathead
840	NOOTSACK
841	OKANOGAN
842	PUGET SOUND SALISH
842	Duwamish
842	Nisqualli
842	Puyallup
842	Skagit

842	Snohomish
842	Suquamish
843	QUINAULT
843	Queets
844	TILLAMOOK
845	TWANA
846	HAIDA
847	ATHAPASCAN
848	AHTENA
849	HAN
850	INGALIT
851	KOYUKON
852	KUCHIN
853	UPPER KUSKOKWIM
854	TANAINA
855	TANANA
855	Minto
856	TANACROSS
857	UPPER TANANA
857	Nabesna
857	Tetlin
858	TUTCHONE
859	CHASTA COSTA
859	Chetco
859	Coquille
859	Smith River Athapascan
860	HUPA
861	OTHER ATHAPASCAN-EYAK LANGUAGES
861	Cahto
861	Mattole
861	Wailaki
862	APACHE
863	KIOWA
864	NAVAHO
865	EYAK
866	TLINGIT
866	Chilkat
866	Sitka
866	Tongass
866	Yakutat
867	MOUNTAIN MAIDU
867	Maidu
868	NORTHWEST MAIDU
868	Concow
869	SOUTHERN MAIDU
869	Nisenan
870	COAST MIWOK
870	Bodega
870	Marin
871	PLAINS MIWOK
872	SIERRA MIWOK
872	Miwok
873	NOMLAKI
873	Tehama
874	PATWIN
874	Colouse
874	Suisun
875	WINTUN
876	FOOTHILL NORTH YOKUTS
877	TACHI
878	SANTIAM
878	Calapooya
878	Wapatu
879	SIUSLAW
879	Coos
879	Lower Umpqua
880	KLAMATH
880	Modoc
881	NEZ PERCE
882	SAHAPTIAN
882	Celilo
882	Klikitat
882	Palouse
882	Tenino
882	Umatilla
882	Warm Springs
882	Yakima
883	UPPER CHINOOK
883	Chinook
883	Clackamas
883	Multnomah
883	Wasco
883	Wishram
884	TSIMSHIAN
885	ACHUMAWI
886	ATSUGEWI
887	KAROK
888	POMO
889	SHASTAN

890	WASHO
891	UP RIVER YUMAN
892	COCOMARICOPA
893	MOHAVE
894	YUMA
895	DIEGUENO
896	DELTA RIVER YUMAN
897	UPLAND YUMAN
898	HAVASUPAI
899	WALAPAI
900	YAVAPAI
901	CHUMASH
902	TONKAWA
903	YUCHI
904	CROW
904	Absaroke
905	HIDATSA
906	MANDAN
907	DAKOTA
907	Brule
907	Lakota
907	Oglala
907	Sioux
908	CHIWERE
909	WINNEBAGO
910	KANSA
910	Kaw
911	OMAHA
912	OSAGE
913	PONCA
914	QUAPAW
914	Arkansas
915	ALABAMA
916	CHOCTAW
916	Chickasaw
917	MIKASUKI
918	HICHITA
918	Apalachicola
919	KOASATI
920	MUSKOGEE
920	Creek
920	Seminole
921	CHETEMACHA
922	YUKI
923	WAPPO
924	KERES
925	IROQUOIS
926	MOHAWK
927	ONEIDA
928	ONONDAGA
929	CAYUGA
930	SENECA
931	TUSCARORA
932	WYANDOT
932	Huron
933	CHEROKEE
934	ARIKARA
935	CADDO
936	PAWNEE
937	WICHITA
938	COMANCHE
939	MONO
939	Owens Valley Paiute
940	PAIUTE
941	NORTHERN PAIUTE
941	Bannock
941	Num
941	Snake
942	SOUTHERN PAIUTE
943	CHEMEHUEVI
944	KAWAIISU
945	UTE
946	SHOSHONI
947	PANAMINT
948	HOPI
949	CAHUILLA
950	CUPENO
951	LUISENO
952	SERRANO
953	TUBATULABAL
954	PIMA
954	Papago
955	YAQUI
956	AZTECAN
956	Mexicano
956	Nahua
957-958	SONORAN, not elsewhere classified
957	Cahita
957	Guasave
957	Huichole
957	Nayit
957-958	Tarahumara

959	PICURIS
959	Northern Tiwa
959	Taos
960	TIWA
960	Isleta
960	Ysleta
961	SANDIA
962	TEWA
962	Hano
962	Hopi-Tewa
962	San Ildefonso
962	San Juan
962	Santa Clara
963	TOWA
964	ZUNI
965	CHINOOK JARGON
966	AMERICAN INDIAN
967	MISUMALPAN
967	Matagalpa
967	Miskito
967	Sumu
968	MAYAN LANGUAGES
968	Cakchiquel
968	Chol
968	Guastec
968	Guatemala
968	Ixil
968	Kechi
968	Mam
968	Maya
968	Queche
968	Yucateca
969	TARASCAN
970	MAPUCHE
970	Araucanian
970	Chilote
971	OTO-MANGUEN
971	Ixatec
971	Mixtec
971	Otomi
971	Popoloc
971	Zapoteca
972	QUECHUA
973	AYMARA
974	ARAWAKIAN
974	Araua
974	Carib
974	Guajiro
974	Kitemoca
974	Tatu
975	CHIBCHAN
975	Boruca
975	Cuna
975	Guaymi
975	Ica
976	TUPI-GUARANI
976	Guajibo
976	Guarani
976	Siriono
977	JICARILLA
977	Lipan
978	CHIRICAHUA
978	Mescalero
979	SAN CARLOS
979	Cibecue
979	San Carlos
979	San Carlos Apache
979	White Mountain
980	KIOWA-APACHE
981	KALISPEL
982	SPOKANE
983-998	LANGUAGE SPECIFIED, NOT LISTED
999	NOT REPORTED

OCCUPATION

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 500 categories for the employed with 1 additional category for the experienced unemployed and 3 additional categories for the Armed Forces. These categories are grouped into 6 summary groups and 13 major groups. The classification is developed from the 1980 Standard Occupational Classification. "n.e.c." is the abbreviation for not elsewhere classified.

000-202 MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

000-042 Executive, Administrative, and Managerial Occupations

000-003 Legislators (111)
004 Chief executives and general administrators, public administration (112)
005 Administrators and officials, public administration (1132-1139)
006 Administrators, protective services (1131)
007 Financial managers (122)
008 Personnel and labor relations managers (123)
009-012 Purchasing managers (124)
013 Managers, marketing, advertising, and public relations (125)
014 Administrators, education and related fields (128)
015 Managers, medicine and health (131)
016 Postmasters and mail superintendents (1344)
017 Managers, food serving and lodging establishments (1351)
018 Managers, properties and real estate (1353)
019-020 Funeral directors (part 1359)
021 Managers, service organizations, n.e.c. (127, 1352, 1354, part 1359)
022 Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)

023-042 Management Related Occupations
023 Accountants and auditors (1412)
024 Underwriters (1414)
025 Other financial officers (1415, 1419)
026 Management analysts (142)
027 Personnel, training, and labor relations specialists (143)
028 Purchasing agents and buyers, farm products (1443)
029-032 Buyers, wholesale and retail trade except farm products (1442)
033 Purchasing agents and buyers, n.e.c. (1449)
034 Business and promotion agents (145)
035 Construction inspectors (1472)
036 Inspectors and compliance officers, except construction (1473)
037-042 Management related occupations, n.e.c. (149)

043-202 Professional Specialty Occupations

043-063 Engineers, Architects, and Surveyors
043 Architects (161)
044-062 Engineers
044 Aerospace (1622)
045 Metallurgical and materials (1623)
046 Mining (1624)
047 Petroleum (1625)
048 Chemical (1626)
049-052 Nuclear (1627)
053 Civil (1628)
054 Agricultural (1632)
055 Electrical and electronic (1633, 1636)
056 Industrial (1634)
057 Mechanical (1635)

058	Marine and naval architects (1637)
059-062	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
064-068	Mathematical and Computer Scientists
064	Computer systems analysts and scientists (171)
065	Operations and systems researchers and analysts (172)
066	Actuaries (1732)
067	Statisticians (1733)
068	Mathematical scientists, n.e.c. (1739)
069-083	Natural Scientists
069-072	Physicists and astronomers (1842, 1843)
073	Chemists, except biochemists (1845)
074	Atmospheric and space scientists (1846)
075	Geologists and geodesists (1847)
076	Physical scientists, n.e.c. (1849)
077	Agricultural and food scientists (1853)
078	Biological and life scientists (1854)
079-082	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
084-094	Health Diagnosing Occupations
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (283)
089-094	Health diagnosing practitioners, n.e.c. (289)
095-112	Health Assessment and Treating Occupations
095	Registered nurses (29)
096	Pharmacists (301)
097	Dietitians (302)
098-105	Therapists
098	Respiratory therapists (3031)
099-102	Occupational therapists (3032)
103	Physical therapists (3033)
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106-112	Physicians' assistants (304)
113-154	Teachers, Postsecondary
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
115	Chemistry teachers (2214)
116	Physics teachers (2215)
117	Natural science teachers, n.e.c. (2216)
118	Psychology teachers (2217)
119-122	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)
128	Mathematical science teachers (2227)

129-132	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139-142	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149-152	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
155-162	Teachers, Except Postsecondary
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159-162	Teachers, n.e.c. (236, 239)
163	Counselors, Educational and Vocational (24)
164-165	Librarians, Archivists, and Curators
164	Librarians (251)
165	Archivists and curators (252)
166-173	Social Scientists and Urban Planners
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169-172	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
174-177	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
178-182	Lawyers and Judges
178	Lawyers (211)
179-182	Judges (212)
183-202	Writers, Artists, Entertainers, and Athletes
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189-192	Photographers (326)

000-202	**MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.**
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195-196	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199-202	Athletes (34)
203-402	**TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS**
203-242	Technicians and Related Support Occupations
203-212	Health Technologists and Technicians
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208-212	Health technologists and technicians, n.e.c. (369)
213-242	Technologists and Technicians, Except Health
213-222	Engineering and Related Technologists and Technicians
213	Electrical and electronic technicians (3711)
214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218-222	Surveying and mapping technicians (373)
223-225	Science Technicians
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)
226-242	Technicians, Except Health, Engineering, and Science
226	Airplane pilots and navigators (825)
227	Air traffic controllers (392)
228	Broadcast equipment operators (393)
229-232	Computer programmers (3971, 3972)
233	Tool programmers, numerical control (3974)
234	Legal assistants (396)
235-242	Technicians, n.e.c. (399)
243-302	Sales Occupations
243-252	Supervisors and Proprietors, Sales Occupations (40)
253-257	Sales Representatives, Finance and Business Services
253	Insurance sales occupations (4122)
254	Real estate sales occupations (4123)
255	Securities and financial services sales occupations (4124)
256	Advertising and related sales occupations (4153)
257	Sales occupations, other business services (4152)
258-262	Sales Representatives, Commodities, Except Retail
258	Sales engineers (421)
259-262	Sales representatives, mining, manufacturing, and wholesale (423, 424)

203-402 TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

263-282 Sales Workers, Retail and Personal Services
- 263 Sales workers, motor vehicles and boats (4342, 4344)
- 264 Sales workers, apparel (4346)
- 265 Sales workers, shoes (4351)
- 266 Sales workers, furniture and home furnishings (4348)
- 267 Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)
- 268 Sales workers, hardware and building supplies (4353)
- 269-273 Sales workers, parts (4367)
- 274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
- 275 Sales counter clerks (4363)
- 276 Cashiers (4364)
- 277 Street and door-to-door sales workers (4366)
- 278-282 News vendors (4365)

283-302 Sales Related Occupations
- 283 Demonstrators, promoters and models, sales (445)
- 284 Auctioneers (447)
- 285-302 Sales support occupations, n.e.c. (444, 446, 449)

303-402 Administrative Support Occupations, Including Clerical

303-307 Supervisors, Administrative Support Occupations
- 303 Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
- 304 Supervisors, computer equipment operators (4512)
- 305 Supervisors, financial records processing (4521)
- 306 Chief communications operators (4523)
- 307 Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)

308-312 Computer Equipment Operators
- 308 Computer operators (4612)
- 309-312 Peripheral equipment operators (4613)

313-315 Secretaries, Stenographers, and Typists
- 313 Secretaries (4622)
- 314 Stenographers (4623)
- 315 Typists (4624)

316-324 Information Clerks
- 316 Interviewers (4642)
- 317 Hotel clerks (4643)
- 318 Transportation ticket and reservation agents (4644)
- 319-322 Receptionists (4645)
- 323-324 Information clerks, n.e.c. (4649)

325-336 Records Processing Occupations, Except Financial
- 325 Classified-ad clerks (4662)
- 326 Correspondence clerks (4663)
- 327 Order clerks (4664)
- 328 Personnel clerks, except payroll and timekeeping (4692)
- 329-334 Library clerks (4694)
- 335 File clerks (4696)
- 336 Records clerks (4699)

337-344 Financial Records Processing Occupations
- 337 Bookkeepers, accounting, and auditing clerks (4712)
- 338 Payroll and timekeeping clerks (4713)

339-342 Billing clerks (4715)
343 Cost and rate clerks (4716)
344 Billing, posting, and calculating machine operators (4718)

345-347 Duplicating, Mail and Other Office Machine Operators
345 Duplicating machine operators (4722)
346 Mail preparing and paper handling machine operators (4723)
347 Office machine operators, n.e.c. (4729)

348-353 Communications Equipment Operators
348-352 Telephone operators (4732)
353 Communications equipment operators, n.e.c. (4733, 4739)

354-358 Mail and Message Distributing Occupations
354 Postal clerks, except mail carriers (4742)
355 Mail carriers, postal service (4743)
356 Mail clerks, except postal service (4744)
357-358 Messengers (4745)

359-374 Material Recording, Scheduling, and Distributing Clerks
359-362 Dispatchers (4751)
363 Production coordinators (4752)
364 Traffic, shipping, and receiving clerks (4753)
365 Stock and inventory clerks (4754)
366 Meter readers (4755)
368-372 Weighers, measurers, checkers, and samplers (4756, 4757)
373 Expediters (4758)
374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

375-378 Adjusters and Investigators
375 Insurance adjusters, examiners, and investigators (4782)
376 Investigators and adjusters, except insurance (4783)
377 Eligibility clerks, social welfare (4784)
378 Bill and account collectors (4786)

379-402 Miscellaneous Administrative Support Occupations
379-382 General office clerks (463)
383 Bank tellers (4791)
384 Proofreaders (4792)
385 Data-entry keyers (4793)
386 Statistical clerks (4794)
387-388 Teachers' aides (4795)
389-402 Administrative support occupations, n.e.c. (4787, 4799)

403-472 SERVICE OCCUPATIONS

403-412 Private Household Occupations
403 Launderers and ironers (503)
404 Cooks, private household (504)
405 Housekeepers and butlers (505)
406 Child care workers, private household (506)
407-412 Private household cleaners and servants (502, 507, 509)

413-432 Protective Service Occupations
413-415 Supervisors, Protective Service Occupations
413 Supervisors, firefighting and fire prevention occupations (5111)

414	Supervisors, police and detectives (5112)
415	Supervisors, guards (5113)
416-417	Firefighting and Fire Prevention Occupations
416	Fire inspection and fire prevention occupations (5122)
417	Firefighting occupations (5123)
418-424	Police and Detectives
418-422	Police and detectives, public service (5132)
423	Sheriffs, bailiffs, and other law enforcement officers (5134)
424	Correctional institution officers (5133)
425-432	Guards
425	Crossing guards (5142)
426	Guards and police, except public service (5144)
427-432	Protective service occupations, n.e.c. (5149)
433-472	Service Occupations, Except Protective and Household
433-444	Food Preparation and Service Occupations
433	Supervisors, food preparation and service occupations (5211)
434	Bartenders (5212)
435	Waiters and waitresses (5213)
436-437	Cooks (5214, 5215)
438	Food counter, fountain and related occupations (5216)
439-442	Kitchen workers, food preparation (5217)
443	Waiters'/waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
445-447	Health Service Occupations
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
448-455	Cleaning and Building Service Occupations, Except Household
448	Supervisors, cleaning and building service workers (5241)
449-452	Maids and housemen (5242, 5249)
453	Janitors and cleaners (5244)
454	Elevator operators (5245)
455	Pest control occupations (5246)
456-472	Personal Service Occupations
456	Supervisors, personal service occupations (5251)
457	Barbers (5252)
458	Hairdressers and cosmetologists (5253)
459-460	Attendants, amusement and recreation facilities (5254)
461	Guides (5255)
462	Ushers (5256)
463	Public transportation attendants (5257)
464	Baggage porters and bellhops (5262)
465	Welfare service aides (5263)
466	Family child care providers (part 5264)
467	Early childhood teacher's assistants (part 5264)
468	Child care workers, n.e.c. (part 5264)
469-472	Personal service occupations, n.e.c. (5258, 5269)

473-502	**FARMING, FORESTRY, AND FISHING OCCUPATIONS**
473-476	Farm Operators and Managers
473	Farmers, except horticultural (5512-5514)
474	Horticultural specialty farmers (5515)
475	Managers, farms, except horticultural (5522-5524)
476	Managers, horticultural specialty farms (5525)
477-493	Other Agricultural and Related Occupations
477-484	Farm Occupations, Except Managerial
477-478	Supervisors, farm workers (5611)
479-482	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)
485-493	Related Agricultural Occupations
485	Supervisors, related agricultural occupations (5621)
486	Groundskeepers and gardeners, except farm (5622)
487	Animal caretakers, except farm (5624)
488	Graders and sorters, agricultural products (5625)
489-493	Inspectors, agricultural products (5627)
494-496	Forestry and Logging Occupations
494	Supervisors, forestry and logging workers (571)
495	Forestry workers, except logging (572)
496	Timber cutting and logging occupations (573, 579)
497-502	Fishers, Hunters, and Trappers
497	Captains and other officers, fishing vessels (part 8241)
498	Fishers (583)
499-502	Hunters and trappers (584)
503-702	**PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**
503-552	Mechanics and Repairers
503-504	Supervisors, mechanics and repairers (60)
505-552	Mechanics and Repairers, Except Supervisors
505-517	Vehicle and Mobile Equipment Mechanics and Repairers
505-506	Automobile mechanics (part 6111)
506	Automobile mechanic apprentices (part 6111)
507	Bus, truck, and stationary engine mechanics (6112)
508	Aircraft engine mechanics (6113)
509-513	Small engine repairers (6114)
514	Automobile body and related repairers (6115)
515	Aircraft mechanics, except engine (6116)
516	Heavy equipment mechanics (6117)
517	Farm equipment mechanics (6118)
518	Industrial machinery repairers (613)
519-522	Machinery maintenance occupations (614)
523-533	Electrical and Electronic Equipment Repairers
523-524	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
525	Data processing equipment repairers (6154)
526	Household appliance and power tool repairers (6156)
527-528	Telephone line installers and repairers (6157)
529-532	Telephone installers and repairers (6158)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)
534	Heating, air conditioning, and refrigeration mechanics (616)

503-702 **PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS**—Con.

535-552 Miscellaneous Mechanics and Repairers
535 Camera, watch, and musical instrument repairers (6171, 6172)
536-537 Locksmiths and safe repairers (6173)
538 Office machine repairers (6174)
539-542 Mechanical controls and valve repairers (6175)
543 Elevator installers and repairers (6176)
544-546 Millwrights (6178)
547-548 Specified mechanics and repairers, n.e.c. (6177, 6179)
549-552 Not specified mechanics and repairers

553-612 Construction Trades

553-562 Supervisors, Construction Occupations
553 Supervisors, brickmasons, stonemasons, and tile setters (6312)
554 Supervisors, carpenters and related workers (6313)
555 Supervisors, electricians and power transmission installers (6314)
556 Supervisors, painters, paperhangers, and plasterers (6315)
557 Supervisors, plumbers, pipefitters, and steamfitters (6316)
558-562 Supervisors, construction, n.e.c. (6311, 6318)

563-612 Construction Trades, Except Supervisors
563-564 Brickmasons and stonemasons (part 6412, part 6413)
564 Brickmason and stonemason apprentices (part 6412, part 6413)
565 Tile setters, hard and soft (part 6414, part 6462)
566 Carpet installers (part 6462)
567-572 Carpenters (part 6422)
569-572 Carpenter apprentices (part 6422)
573-574 Drywall installers (6424)
575-576 Electricians (part 6432)
576 Electrician apprentices (part 6432)
577-578 Electrical power installers and repairers (6433)
579-582 Painters, construction and maintenance (6442)
583 Paperhangers (6443)
584 Plasterers (6444)
585-587 Plumbers, pipefitters, and steamfitters (part 645)
587 Plumber, pipefitter, and steamfitter apprentices (part 645)
588 Concrete and terrazzo finishers (6463)
589-592 Glaziers (6464)
593 Insulation workers (6465)
594 Paving, surfacing, and tamping equipment operators (6466)
595 Roofers (6468)
596 Sheetmetal duct installers (6472)
597 Structural metal workers (6473)
598 Drillers, earth (6474)
599-612 Construction trades, n.e.c. (6467, 6475, 6476, 6479)

613-627 Extractive Occupations
613 Supervisors, extractive occupations (632)
614 Drillers, oil well (652)
615 Explosives workers (653)
616 Mining machine operators (654)
617-627 Mining occupations, n.e.c. (656)

628-702 Precision Production Occupations
628-633 Supervisors, production occupations (67, 71)
634-655 Precision Metal Working Occupations

634-635 Tool and die makers (part 6811)
635 Tool and die maker apprentices (part 6811)
636 Precision assemblers, metal (6812)
637-642 Machinists (part 6813)
639-642 Machinist apprentices (part 6813)
643 Boilermakers (6814)
644 Precision grinders, filers, and tool sharpeners (6816)
645 Patternmakers and model makers, metal (6817)
646 Lay-out workers (6821)
647-648 Precious stones and metals workers (Jewelers) (6822, 6866)
649-652 Engravers, metal (6823)
653-654 Sheet metal workers (part 6824)
654 Sheet metal worker apprentices (part 6824)
655 Miscellaneous precision metal workers (6829)
656-665 Precision Woodworking Occupations
656 Patternmakers and model makers, wood (6831)
657 Cabinet makers and bench carpenters (6832)
658 Furniture and wood finishers (6835)
659-665 Miscellaneous precision woodworkers (6839)
666-674 Precision Textile, Apparel, and Furnishings Machine Workers
666 Dressmakers (part 6852, part 7752)
667 Tailors (part 6852)
668 Upholsterers (6853)
669-673 Shoe repairers (6854)
674 Miscellaneous precision apparel and fabric workers (6856, 6859, part 7752)
675-685 Precision Workers, Assorted Materials
675 Hand molders and shapers, except jewelers (6861)
676 Patternmakers, lay-out workers, and cutters (6862)
677 Optical goods workers (6864, part 7477, part 7677)
678 Dental laboratory and medical appliance technicians (6865)
679-682 Bookbinders (6844)
683 Electrical and electronic equipment assemblers (6867)
684-685 Miscellaneous precision workers, n.e.c. (6869)
686-688 Precision Food Production Occupations
686 Butchers and meat cutters (6871)
687 Bakers (6872)
688 Food batchmakers (6873, 6879)
689-693 Precision Inspectors, Testers, and Related Workers
689-692 Inspectors, testers, and graders (6881, 828)
693 Adjusters and calibrators (6882)
694-702 Plant and System Operators
694 Water and sewage treatment plant operators (691)
695 Power plant operators (part 693)
696-698 Stationary engineers (part 693, 7668)
699-702 Miscellaneous plant and system operators (692, 694, 695, 696)

703-902 OPERATORS, FABRICATORS, AND LABORERS

703-802 Machine Operators, Assemblers, and Inspectors

703-782 Machine Operators and Tenders, Except Precision

703-716 Metal Working and Plastic Working Machine Operators
703 Lathe and turning machine set-up operators (7312)
704 Lathe and turning machine operators (7512)
705 Milling and planing machine operators (7313, 7513)
706 Punching and stamping press machine operators (7314, 7317, 7514, 7517)

707 Rolling machine operators (7316, 7516)
708 Drilling and boring machine operators (7318, 7518)
709-712 Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713 Forging machine operators (7319, 7519)
714 Numerical control machine operators (7326)
715-716 Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)

717-718 Fabricating machine operators, n.e.c. (7339, 7539)

719-725 Metal and Plastic Processing Machine Operators
719-722 Molding and casting machine operators (7315, 7342, 7515, 7542)
723 Metal plating machine operators (7343, 7543)
724 Heat treating equipment operators (7344, 7544)
725 Miscellaneous metal and plastic processing machine operators (7349, 7549)

726-733 Woodworking Machine Operators
726 Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
727 Sawing machine operators (7433, 7633)
728 Shaping and joining machine operators (7435, 7635)
729-732 Nailing and tacking machine operators (7636)
733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)

734-737 Printing Machine Operators
734 Printing press operators (7443, 7643)
735 Photoengravers and lithographers (6842, 7444, 7644)
736 Typesetters and compositors (6841, 7642)
737 Miscellaneous printing machine operators (6849, 7449, 7649)

738-752 Textile, Apparel, and Furnishings Machine Operators
738 Winding and twisting machine operators (7451, 7651)
739-742 Knitting, looping, taping, and weaving machine operators (7452, 7652)
743 Textile cutting machine operators (7654)
744 Textile sewing machine operators (7655)
745-746 Shoe machine operators (7656)
747 Pressing machine operators (7657)
748 Laundering and dry cleaning machine operators (6855, 7658)
749-752 Miscellaneous textile machine operators (7459, 7659)

753-782 Machine Operators, Assorted Materials
753 Cementing and gluing machine operators (7661)
754 Packaging and filling machine operators (7462, 7662)
755 Extruding and forming machine operators (7463, 7663)
756 Mixing and blending machine operators (7664)
757 Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
758 Compressing and compacting machine operators (7467, 7667)
759-762 Painting and paint spraying machine operators (7669)
763 Roasting and baking machine operators, food (7472, 7672)
764 Washing, cleaning, and pickling machine operators (7673)
765 Folding machine operators (7474, 7674)
766-767 Furnace, kiln, and oven operators, except food (7675)
768 Crushing and grinding machine operators (part 7477, part 7677)
769-772 Slicing and cutting machine operators (7478, 7678)
773 Motion picture projectionists (part 7479)
774-776 Photographic process machine operators (6863, 6868, 7671)
777-778 Miscellaneous machine operators, n.e.c. (part 7479, 7665, 7679)
779-782 Machine operators, not specified

703-902 OPERATORS, FABRICATORS, AND LABORERS—Con.

783-795 Fabricators, Assemblers, and Hand Working Occupations
- 783 Welders and cutters (7332, 7532, 7714)
- 784 Solderers and brazers (7333, 7533, 7717)
- 785 Assemblers (772, 774)
- 786 Hand cutting and trimming occupations (7753)
- 787-788 Hand molding, casting, and forming occupations (7754, 7755)
- 789-792 Hand painting, coating, and decorating occupations (7756)
- 793-794 Hand engraving and printing occupations (7757)
- 795 Miscellaneous hand working occupations (7758, 7759)

796-802 Production Inspectors, Testers, Samplers, and Weighers
- 796 Production inspectors, checkers, and examiners (782, 787)
- 797 Production testers (783)
- 798 Production samplers and weighers (784)
- 799-802 Graders and sorters, except agricultural (785)

803-863 Transportation and Material Moving Occupations

803-822 Motor Vehicle Operators
- 803 Supervisors, motor vehicle operators (8111)
- 804-805 Truck drivers (8212-8214)
- 806-807 Driver-sales workers (8218)
- 808 Bus drivers (8215)
- 809-812 Taxicab drivers and chauffeurs (8216)
- 813 Parking lot attendants (874)
- 814-822 Motor transportation occupations, n.e.c. (8219)

823-842 Transportation Occupations, Except Motor Vehicles
- 823-827 Rail Transportation Occupations
  - 823 Railroad conductors and yardmasters (8113)
  - 824 Locomotive operating occupations (8232)
  - 825 Railroad brake, signal, and switch operators (8233)
  - 826-827 Rail vehicle operators, n.e.c. (8239)
- 828-842 Water Transportation Occupations
  - 828 Ship captains and mates, except fishing boats (part 8241, 8242)
  - 829-832 Sailors and deckhands (8243)
  - 833 Marine engineers (8244)
  - 834-842 Bridge, lock, and lighthouse tenders (8245)

843-863 Material Moving Equipment Operators
- 843 Supervisors, material moving equipment operators (812)
- 844 Operating engineers (8312)
- 845-847 Longshore equipment operators (8313)
- 848 Hoist and winch operators (8314)
- 849-852 Crane and tower operators (8315)
- 853-854 Excavating and loading machine operators (8316)
- 855 Grader, dozer, and scraper operators (8317)
- 856-858 Industrial truck and tractor equipment operators (8318)
- 859-863 Miscellaneous material moving equipment operators (8319)

864-902 Handlers, Equipment Cleaners, Helpers, and Laborers

- 864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
- 865 Helpers, mechanics, and repairers (863)
- 866-868 Helpers, Construction, and Extractive Occupations
  - 866 Helpers, construction trades (8641-8645, 8648)
  - 867 Helpers, surveyor (8646)

703-902	**OPERATORS, FABRICATORS, AND LABORERS**—Con.
868	Helpers, extractive occupations (865)
869-873	Construction laborers (871)
874	Production helpers (861, 862)
875-884	Freight, Stock, and Material Handlers
875	Garbage collectors (8722)
876	Stevedores (8723)
877	Stock handlers and baggers (8724)
878-882	Machine feeders and offbearers (8725)
883-884	Freight, stock, and material handlers, n.e.c. (8726)
885-886	Garage and service station related occupations (873)
887	Vehicle washers and equipment cleaners (875)
888	Hand packers and packagers (8761)
889-902	Laborers, except construction (8769)
903-908	**MILITARY OCCUPATIONS (Includes only uniquely military occupations. Other Armed Forces members are coded to civilian occupations.)**
903	Commissioned officers and warrant officers
904	Non-commissioned officers and other enlisted personnel
905-908	Military occupation, rank not specified
909-999	**EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION**
909-999	Unemployed, last worked 1984 or earlier

PLACE OF BIRTH

This section contains the code list for place of birth. An alphabetical list of U.S. States and territories, foreign countries, and other areas was used to assign a three-digit code to the birthplace reported by each person. The alphabetical list used in coding included abbreviations and alternate names, including some historical names for countries and names of States, provinces, counties, or other subdivisions of countries.

The following list does not include any of these alternate names, but does include continent and area names used as defaults if a specific country was not named but a broader region or area of birth was reported. The names for foreign countries shown on this list and in the publications reflect the most commonly used names in this country, not their official or legal names. Each entry shown on the following list has a unique code.

The U.S. States and territories were assigned their Federal Information Processing Standards (FIPS) code preceded by a zero. For foreign countries, codes were generally assigned by listing the countries or areas in alphabetical order (followed by default codes) within eight broad continent or regional areas: (1) Europe, (2) Asia, (3) North America, (4) Central America, (5) Caribbean, (6) South America, (7) Africa, and (8) Oceania. The entries for the USSR and the Baltic States are listed following the other entries for Europe for convenience in combining with either Europe or Asia. The entries for Germany also do not follow strict alphabetical order; codes 110-114 can be combined to tabulate an overall figure including Germany (not specified), East Germany, West Germany, and Berlin. The entries for the United Kingdom also do not follow strict alphabetical order; codes 138-145 can be combined to tabulate an overall figure including United Kingdom (not specified), England, Scotland, Wales, Northern Ireland, Guernsey, Jersey, and the Isle of Man. The codes for Asia also include a code for Korea (not specified) since it is often reported in that fashion.

001-059	**United States**
001	Alabama
002-003	Alaska
004	Arizona
005	Arkansas
006-007	California
008	Colorado
009	Connecticut
010	Delaware
011	District of Columbia
012	Florida
013-014	Georgia
015	Hawaii
016	Idaho
017	Illinois
018	Indiana
019	Iowa
020	Kansas
021	Kentucky
022	Louisiana
023	Maine
024	Maryland
025	Massachusetts
026	Michigan
027	Minnesota
028	Mississippi
029	Missouri
030	Montana
031	Nebraska
032	Nevada
033	New Hampshire
034	New Jersey
035	New Mexico
036	New York
037	North Carolina
038	North Dakota
039	Ohio
040	Oklahoma

001-059	**United States**—Con.
041	Oregon
042-043	Pennsylvania
044	Rhode Island
045	South Carolina
046	South Dakota
047	Tennessee
048	Texas
049	Utah
050	Vermont
051-052	Virginia
053	Washington
054	West Virginia
055	Wisconsin
056-059	Wyoming
060-099	**U.S. Outlying Areas and Puerto Rico**
060-065	American Samoa
066	Guam
067-068	Johnston Atoll
069-070	Northern Mariana Islands
071	Midway Islands
072-075	Puerto Rico
076-077	Navassa Island
078	U.S. Virgin Islands
079-080	Wake Island
081-083	Baker Island
084-085	Howland Island
086-088	Jarvis Island
089-094	Kingman Reef
095	Palmyra Atoll
096-099	U.S. territory, not specified
100-199	**Europe**
100	Albania
101	Andorra
102	Austria

100-199	Europe—Con.
103	Belgium
104	Bulgaria
105	Czechoslovakia
106	Denmark
107	Faroe Islands
108	Finland
109	France
110	Germany, not specified
111	West Germany
112	West Berlin
113	East Berlin
114	East Germany
115	Gibraltar
116	Greece
117	Hungary
118	Iceland
119	Ireland
120	Italy
121	Jan Mayen
122	Liechtenstein
123	Luxembourg
124	Malta
125	Monaco
126	Netherlands
127	Norway
128	Poland
129	Portugal
130	Azores Islands
131	Madeira Islands
132	Romania
133	San Marino
134	Spain
135	Svalbard
136	Sweden
137	Switzerland
138	United Kingdom, not specified
139	England
140	Scotland
141	Wales
142	Northern Ireland
143	Guernsey
144	Jersey
145	Isle of Man
146	Vatican City
147	Yugoslavia
148	Europe, not specified
149	Central Europe, not specified
150	Eastern Europe, not specified
151	Lapland, not specified
152	Northern Europe, not specified
153	Southern Europe, not specified
154-179	Western Europe, not specified
180	Union of Soviet Socialist Republics (USSR)
181	Baltic States, not specified
182	Estonia

100-199	Europe—Con.
183	Latvia
184-199	Lithuania

200-299	Asia
200	Afghanistan
201	Bahrain
202	Bangladesh
203	Bhutan
204	Brunei
205	Burma
206	Cambodia
207	China
208	Cyprus
209	Hong Kong
210	India
211	Indonesia
212	Iran
213	Iraq
214	Israel
215	Japan
216	Jordan
217	Korea, not specified
218	South Korea
219	North Korea
220	Kuwait
221	Laos
222	Lebanon
223	Macau
224	Malaysia
225	Maldives
226	Mongolia
227	Nepal
228	Oman
229	Pakistan
230	Paracel Islands
231	Philippines
232	Qatar
233	Saudi Arabia
234	Singapore
235	Spratley Islands
236	Sri Lanka
237	Syria
238	Taiwan
239	Thailand
240	Turkey
241	United Arab Emirates
242	Vietnam
243	Yemen, People's Democratic Republic
244	Yemen Arab Republic
245	Asia, not specified
246	Asia Minor, not specified
247	East Asia, not specified
248	Gaza Strip
249	Indochina, not specified
250	Iraq-Saudi Arabia Neutral Zone
251	Mesopotamia, not specified

200-299	**Asia—Con.**
252	Middle East, not specified
253	Palestine, not specified
254	Persian Gulf States, not specified
255	Southeast Asia, not specified
256-299	West Bank
300-399	**America**
300-309	**North America**
300	Bermuda
301	Canada
302	Greenland
303	St. Pierre and Miquelon
304-309	North America, not specified
310-329	**Central America**
310	Belize
311	Costa Rica
312	El Salvador
313	Guatemala
314	Honduras
315	Mexico
316	Nicaragua
317	Panama
318-329	Central America, not specified
330-374	**Caribbean**
330	Anguilla
331	Antigua and Barbuda
332	Aruba
333	Bahamas
334	Barbados
335	British Virgin Islands
336	Cayman Islands
337	Cuba
338	Dominica
339	Dominican Republic
340	Grenada
341	Guadeloupe
342	Haiti
343	Jamaica
344	Martinique
345	Montserrat
346	Netherlands Antilles
347	St. Barthelemy
348	St. Kitts-Nevis
349	St. Lucia
350	St. Vincent and the Grenadines
351	Trinidad and Tobago
352	Turks and Caicos Islands
353	Caribbean, not specified
354	Antilles, not specified
355	British West Indies, not specified
356	Latin America, not specified
330-374	**Caribbean—Con.**
357	Leeward Islands, not specified
358	West Indies, not specified
359-374	Windward Islands, not specified
375-399	**South America**
375	Argentina
376	Bolivia
377	Brazil
378	Chile
379	Colombia
380	Ecuador
381	Falkland Islands
382	French Guiana
383	Guyana
384	Paraguay
385	Peru
386	Suriname
387	Uruguay
388	Venezuela
389-399	South America, not specified
400-499	**Africa**
400	Algeria
401	Angola
402	Bassas da India
403	Benin
404	Botswana
405	British Indian Ocean Territory
406	Burkina Faso
407	Burundi
408	Cameroon
409	Cape Verde
410	Central African Republic
411	Chad
412	Comoros
413	Congo
414	Djibouti
415	Egypt
416	Equatorial Guinea
417	Ethiopia
418	Europa Island
419	Gabon
420	Gambia
421	Ghana
422	Glorioso Islands
423	Guinea
424	Guinea-Bissau
425	Ivory Coast
426	Juan de Nova Island
427	Kenya
428	Lesotho
429	Liberia
430	Libya
431	Madagascar
432	Malawi
433	Mali

400-499	Africa—Con.
434	Mauritania
435	Mayotte
436	Morocco
437	Mozambique
438	Namibia
439	Niger
440	Nigeria
441	Reunion
442	Rwanda
443	Sao Tome and Principe
444	Senegal
445	Mauritius
446	Seychelles
447	Sierra Leone
448	Somalia
449	South Africa
450	St. Helena
451	Sudan
452	Swaziland
453	Tanzania
454	Togo
455	Tromelin Island
456	Tunisia
457	Uganda
458	Western Sahara
459	Zaire
460	Zambia
461	Zimbabwe
462	Africa, not specified
463	Central Africa, not specified
464	Eastern Africa, not specified
465	Equatorial Africa, not specified
466	French Equatorial Africa, not specified
467	French West Africa, not specified
468	North Africa, not specified
469	Western Africa, not specified
470-499	Southern Africa, not specified

500-553	Oceania
500	Ashmore and Cartier Islands
501	Australia
502	Christmas Island, Indian Ocean
503	Clipperton Island
504	Cocos Islands
505	Cook Islands
506	Coral Sea Islands
507	Fiji
508	French Polynesia
509	Kiribati
510	Marshall Islands
511	Micronesia
512	Nauru
513	New Caledonia
514	New Zealand
515	Niue
516	Norfolk Island
517	Palau
518	Papua New Guinea
519	Pitcairn Islands
520	Solomon Islands
521	Tokelau
522	Tonga
523	Tuvalu
524	Vanuatu
525	Wallis and Futuna Islands
526	Western Samoa
527	Oceania, not specified
528	Polynesia, not specified
529-549	Melanesia, not specified
550	Antarctica
551	Bouvet Island
552	French Southern and Antarctic Lands
553	Heard and McDonald Islands

554-999	At Sea/Abroad, Not Specified
554	At sea
555-999	Abroad, not specified

RACE

This section contains the alphabetical code list for race and American Indian tribes. The list of race groups and American Indian tribes with their associated 3-digit numerical code was used to code the Asian or Pacific Islander, American Indian, Eskimo, or Aleut, and the Other race write-in entries. A separate set of 3-digit numerical codes were used to identify FOSDIC circles for the race categories listed in the race item on the questionnaire. These codes and their respective race categories are: White-971, Black or Negro-972, Indian (Amer.)-973, Eskimo-974, Aleut-975, Chinese-976, Filipino-977, Hawaiian-978, Korean-979, Vietnamese-980, Japanese-981, Asian Indian-982, Samoan-983, Guamanian-984, Other Asian or Pacific Islander-985, and Other race-986.

000-599, 973 American Indian

000-001	Ahtna
002	Biorka
003	Reserve American Indian 1
004-005	Bristol Bay
006	Chaneliak
007	Chugach
008	Tanaina
009	Doyon
010	Kodiak
011	Reserve American Indian 2
012	Sealaska
013	Umpqua
014	Alaskan Athabaskan
015	Alaska Native
016	Haida
017	Tlingit
018	Tsimshian
019	Alaska Indian
020	Chehalis
021	Chemakum
022	Klallam
023	Jamestown
024	Lower Elwha
025	Port Gamble Klallam
026	Coquilles
027	Cowlitz
028	Lummi
029	Nooksack
030	Puget Sound Salish
031	Duwamish
032	Kikiallus
033	Lower Skagit
034	Muckleshoot
035	Nisqually
036	Puyallup
037	Samish
038	Sauk-Suiattle
039	Upper Skagit
040	Skykomish
041	Snohomish
042	Snoqualmie
043	Squaxin Island
044	Stellacoom
045	Stillaguamish
046	Suquamish
047	Swinomish
048	Tulalip

000-599, 973 American Indian—Con.

049	Port Madison
050	Quinault
051	Quileute
052	Hoh
053	Makah
054	Talakamish
055	Chinook
056	Clatsop
057	Kathlamet
058	Columbia River Chinook
059	Upper Chinook
060	Wakiakum Chinook
061	Willapa Chinook
062	Alsea
063	Cayuse
064	Celilo
065	Coos
066	Kalapuya
067	Klamath
068	Molala
069	Oregon Athabaskan
070	Siuslaw
071	Takelma
072	Tenino
073	Tillamook
074	Tygh
075	Umatilla
076	Walla-Walla
077	Yahooskin
078	Yakima
079	Skokomish
080	Agua Caliente Cahuilla
081	Augustine
082	Cabazon
083	Cahto
084	Cahuilla
085	Campo
086	Capitan Grande
087	Chemehuevi
088	Chimariko
089	Chumash
090	Costanoan
091	Cupeno
092	Cuyapaipe
093	Diegueno
094	Digger
095	Gabrieleno
096	Hoopa
097	Inaja Cosmit

098	Karok
099	Kawaiisu
100	La Jolla
101	Lassik
102	La Posta
103	Luiseno
104	Maidu
105	Manzanita
106	Mesa Grande
107	Mountain Maidu
108	Nishinam
109	Konkow
110	Mattole
111	Miwok
112	Coast Miwok
113	Modoc
114	Mono
115	Nomalaki
116	Pala
117	Pechanga
118	Pauma
119	Pit River
120	Pomo
121	Dry Creek
122	Northern Pomo
123	Kashaya
124	Central Pomo
125	Stonyford
126	Eastern Pomo
127	Sulphur Bank
128	Salinan
129	San Manual
130	San Pascual
131	Santa Rosa Cahuilla
132	Santa Ynez
133	Santa Ysabel
134	Serrano
135	Shasta
136	Soboba
137	Sycuan
138	Tolowa
139	Torres-Martinez
140	Kern River
141	Tule River
142	Twenty-Nine Palms
143	Wailaki
144	Wappo
145	Whilkut
146	Wintu
147	Wiyot
148	Yana
149	Yokuts
150	Tachi
151	Chukchansi
152	Yuki
153	Yurok

154	Reserve American Indian 3
155	Columbia
156	Kalispel
157	Salish
158	Coeur D'Alene
159	Colville
160	Spokane
161	Nez Perce
162	Washo
163	Alpine
164	Carson
165	Dresslerville
166	Stewart
167	Wishram
168	Hoopa Extension
169	Trinity
170	Ute
171	Allen Canyon
172	Uintah Ute
173	Ute Mountain Ute
174	Shoshone Paiute
175	Paiute
176	Northern Paiute
177	Cedarville
178	Pyramid Lake
179	Fort Bidwell
180	Las Vegas
181	Lovelock
182	Utu Utu Gwaitu Paiute
183	Fort Independence
184	Bridgeport
185	Burns Paiute
186	Yerington Paiute
187	Walker River
188	Southern Paiute
189	Kaibab
190	Moapa
191	Owens Valley
192	Summit Lake
193	Aroostook
194	Reserve American Indian 5
195	Shoshone
196	Battle Mountain
197	Duck Water
198	Elko
199	Ely
200	Goshute
201	Panamint
202	Ruby Valley
203	South Fork Shoshone
204	Washakie
205	Yomba
206	Te-Moak Western Shoshone
207	Bannock
208	Kootenai
209-210	Havasupai
211	Hualapai

212	Yavapai
213	Maricopa
214	Quechan
215	Cocopah
216	Mohave
217	Pima
218	Tohono O'Odham
219	Gila Bend
220	Ak-Chin
221	San Xavier
222	Sells
223	Yaqui
224	Pascua Yaqui
225	Barrio Libre
226	Mississippi Choctaw
227	Reserve American Indian 6
228	Jena Choctaw
229	Pueblo
230	Tigua
231	Taos
232	Picuris
233	Sandia
234	Isleta
235	Keres
236	Acoma
237	Cochiti
238	Laguna
239	San Felipe
240	Santa Ana
241	Santo Domingo
242	Zia
243	Tewa
244	Nambe
245	Pojoaque
246	San Ildefonso
247	San Juan Pueblo
248	Santa Clara
249	Tesuque
250	Arizona Tewa
251	Jemez
252	Hopi
253	Zuni
254	San Juan de
255	Apache
256	Oklahoma Apache
257	Jicarilla Apache
258	Lipan Apache
259	Mescalero Apache
260	Chiricahua
261	Fort Sill Apache
262	San Carlos Apache
263	Payson Apache
264	White Mountain Apache
265	Reserve American Indian 7
266	Reserve American Indian 8
267	Reserve American Indian 9

268	Reserve American Indian 10
269	Reserve American Indian 11
270	Reserve American Indian 12
271	Reserve American Indian 13
272	Reserve American Indian 14
273	Reserve American Indian 15
274	Reserve American Indian 16
275	Navajo
276	Kiowa
277	Tonkawa
278	Oklahoma Caddo
279	Arikara
280	Oklahoma Pawnee
281	Wichita
282	Sioux
283	Cheyenne River Sioux
284	Crow Creek Sioux
285	Devils Lake Sioux
286	Flandreau Santee
287	Fort Peck
288	Standing Rock Sioux
289	Lake Traverse Sioux
290	Lower Sioux
291	Pine Ridge Sioux
292	Pipestone Sioux
293	Prairie Island Sioux
294	Prior Lake
295	Rosebud Sioux
296	Upper Sioux
297	Sisseton-Wahpeton Sioux
298	Teton Sioux
299	Brule Sioux
300	Lower Brule Sioux
301	Sans Arc Sioux
302	Two Kettle Sioux
303	Blackfoot Sioux
304	Oglala Sioux
305	Miniconjou
306	Yanktonai Sioux
307	Yankton Sioux
308	Santee Sioux
309	Sisseton Sioux
310	Mdewakanton Sioux
311	Wahpekute Sioux
312	Wahpeton Sioux
313	Assiniboine
314	Iowa
315	Otoe-Missouria
316	Winnebago
317	Kaw
318	Omaha
319	Ponca
320	Osage
321	Quapaw
322	Crow
323	Hidatsa
324	Mandan

325	Comanche
326	Dakota Sioux
327	Wazhaza Sioux
328	Nebraska Winnebago
329	Wisconsin Winnebago
330	Chippewa
331	Bay Mills Chippewa
332	Sault Ste. Marie Chippewa
333	Saginaw Chippewa
334	Keweenaw
335	Lac Vieux Desert Chippewa
336	Ontonagon
337	Leelanau
338	Minnesota Chippewa
339	Boise Forte
340	Grand Portage
341	Fond Du Lac
342	Leech Lake
343	Mille Lac
344	White Earth
345	Red Lake Chippewa
346	Lake Superior
347	Bad River
348	Lac Courte Oreilles
349	Lac Du Flambeau
350	Red Cliff Chippewa
351	St. Croix Chippewa
352	Sokoagon Chippewa
353	Turtle Mountain
354	Rocky Boy's Cree
355	Burt Lake Chippewa
356	Burt Lake Band
357	Reserve American Indian 19
358	Reserve American Indian 20
359	Burt Lake Ottawa
360	Blackfoot
361	Cheyenne
362	Northern Cheyenne
363	Southern Cheyenne
364	Arapaho
365	Atsina
366	Menominee
367	Potawatomie
368	Citizen Band Potawatomi
369	Forest County
370	Hannahville
371	Huron Potawatomi
372	Pogagon Potawatomi
373	Prairie Band
374	Wisconsin Potawatomi
375	Ottawa
376	Miami
377	Sac and Fox
378	Peoria
379	Sac and Fox-Mesquakie
380	Kickapoo

381	Shawnee
382	Algonquian
383	Micmac
384	Maliseet
385	Passamaquoddy
386	Pleasant Point Passamaquoddy
387	Indian Township
388	Penobscot
389	Abenaki
390	Wampanoag
391	Nipmuc
392	Narragansett
393	Pequot
394	Mohegan
395	Paugussett
396	Schaghticoke
397	Brotherton
398	Shinnecock
399	Stockbridge
400	Munsee
401	Delaware
402	Sand Hill
403	Absentee Shawnee
404	Clifton Choctaw
405	Iroquois
406	Seneca
407	Seneca Nation
408	Tonawanda Seneca
409	Seneca-Cayuga
410	Cayuga
411	Onondaga
412	Oneida
413	Mohawk
414	Tuscarora
415	Wyandotte
416	Cherokee
417	Eastern Cherokee
418	Western Cherokee
419	Etowah Cherokee
420	United Keetoowah Band
421	Tuscola
422	Northern Cherokee
423	Eastern Muskogee
424	Agua Caliente
425	Creek
426	Thlopthlocco
427	Yuchi
428	Hitchiti
429	Eastern Creek
430	Principal Creek Indian Nation
431	Poarch Band
432	Lower Muskogee
433	Alabama Coushatta
434	Choctaw
435	Houma
436	Chickasaw
437	Miccosukee

438	Seminole
439	Oklahoma Seminole
440	Florida Seminole
441	Big Cypress
442	Brighton
443	Hollywood Seminole
444	Natchez
445	Matinecock
446	Montauk
447	Poospatuck
448	Setauket
449	Tuckabachee
450	Nanticoke
451	Piscataway
452	Nansemond
453	Chickahominy
454	Pamunkey
455	Mattaponi
456	Rappahannock
457	Attacapa
458	Biloxi
459	Catawba
460	Chitimacha
461	Coharie
462	Croatan
463	Haliwa
464	Lumbee
465	Moor
466	Powhatan
467	Tunica
468	Wesort
469	Southeastern Indians
470	Cajun
471	Coushatta
472	Reserve American Indian 23
473	Reserve American Indian 24
474	Reserve American Indian 25
475	Reserve American Indian 26
476	Colorado River
477	Duck Valley
478	Fallon
479	Fort Belknap
480	Fort Berthold
481	Fort Hall
482	Fort McDermitt
483	Fort McDowell
484	Cow Creek Umpqua
485	Gila River
486	Grand Ronde
487	Los Coyotes
488	Mission Indians
489	Morongo
490	Reno-Sparks
491	Round Valley
492	Shoalwater
493	Siletz
494	Skull Valley

000-599, 973 American Indian—Con.

495	Susanville
496	Table Bluff
497	Wascopum
498	Wind River
499	Winnemucca
500	Yavapai Apache
501	Reserve American Indian 27
502	Gros Ventres
503	Scott Valley
504	Warm Springs
505	Santa Rosa
506	San Juan
507	Red Wood
508	Salish and Kootenai
509	Georgetown
510	Clear Lake
511	Yakima Cowlitz
512	Scotts Valley
513	Cheyenne-Arapaho
514	Northern Arapaho
515	Southern Arapaho
516	Mashpee Wampanoag
517	Gay Head Wampanoag
518	Timbi-Sha Shoshone
519	Juaneno
520	Oklahoma Choctaw
521	Oklahoma Modoc
522	Oklahoma Kiowa
523	Oklahoma Comanche
524	Oklahoma Iowa
525	Canadian Indian
526	Oklahoma Ponca
527	Oklahoma Ottawa
528	Oklahoma Miami
529	Oklahoma Peoria
530	Oklahoma Sac and Fox
531	Oklahoma Kickapoo
532	Oklahoma Delaware
533	Caddo
534	Pawnee
535	Michigan Ottawa
536	Indiana Miami
537	Missouri Sac and Fox
538	Eastern Shawnee
539	Cherokee Shawnee
540	Kialegee
541	Alabama Quassarte
542	Malheur Paiute
543	Wenatchee
544	Little Shell Chippewa
545	Illinois
546	Rampough Mountain
547	Lenni-Lenape
548	Amerind White
549	Amerind Black
550	Mexican American Indian
551	Central American Indian

000-599, 973 American Indian—Con.

552	South American Indian
553	French American Indian
554	Spanish American Indian
555	Cherokees of Southeast Alabama
556	Cherokees of Northeast Alabama
557	Echota Cherokee
558	MaChis Lower Creek Indian
559	MOWA Band of Choctaw
560	Star Clan of Muskogee Creeks
561	Eastern Delaware
562	Cherokee Alabama
563	Reserve American Indian 36
564	Reserve American Indian 37
565	Mexican Indian Cherokee
566	Eastern Chickahominy
567	Western Chickahominy
568	Waccamaw-Siouan
569	Nausu Waiwash
570	Pocomoke Acohonock
571	Susquehanock
572	Wicomico
573	Piro
574	Illinois Miami
575	Tunica Biloxi
576-597	American Indian
598	Tribal response, not elsewhere classified
599	Reserve American Indian 38
973	American Indian (FOSDIC circle)

600-699, 976-985 Asian or Pacific Islander

600-652, 976, 977, 979-982, 985 Asian

600	Asian Indian
601	Bangladeshi
602	Bhutanese
603	Burmese
604	Cambodian (Kampuchean)
605	Chinese
606	Taiwanese
607	Formosan
608	Filipino
609	Hmong
610	Indonesian
611	Japanese
612	Korean
613	Laotian
614	Malayan
615	Okinawan
616	Pakistani
617	Sri Lankan
618	Thai
619	Vietnamese
620	Amerasian
621	Asian
622	Asiatic

600-652, 976, 977, 979-982, 985 Asian—Con.

623	Eurasian
624	Mongolian
625	Oriental
626	Whello
627	Yellow
628	Borneo
629	Celebesian
630	Ceram
631	Indo-Chinese
632	Iwo Jiman
633	Javanese
634	Maldivian
635	Nepali
636	Sikkim
637	Singaporean
638	Sumatran
639	Madagascar
640	Reserve Asian 2
641	Reserve Asian 3
642	Reserve Asian 4
643	Reserve Asian 5
644	Reserve Asian 6
645	Reserve Asian 7
646	Reserve Asian 8
647	Reserve Asian 9
648	Reserve Asian 10
649	Reserve Asian 11
650	Reserve Asian 12
651	Reserve Asian 13
652	Reserve Asian 14
976	Chinese (FOSDIC circle)
977	Filipino (FOSDIC circle)
979	Korean (FOSDIC circle)
980	Vietnamese (FOSDIC circle)
981	Japanese (FOSDIC circle)
982	Asian Indian (FOSDIC circle)
985	Other Asian or Pacific Islander (FOSDIC circle)

653-699, 978, 983, 984 Pacific Islander

653-659, 978, 983 Polynesian

653	Hawaiian
654	Part Hawaiian
655	Samoan
656	Tahitian
657	Tongan
658	Polynesian
659	Tokelauan
978	Hawaiian (FOSDIC circle)
983	Samoan (FOSDIC circle)

660-675, 984 Micronesian

660	Guamanian
661	Mariana Islander
662	Marshallese

660-675, 984 Micronesian—Con.

663	Palauan
664	Bikinian
665	Carolinian
666	Eniwetok
667	Kosraean
668	Kwajalein
669	Micronesian
670	Ponapean (Pohnpelan)
671	Saipanese
672	Tarawa Islander
673	Tinian
674	Trukese (Chuukese)
675	Yapese
984	Guamanian (FOSDIC circle)

676-680 Melanesian

676	Fijian
677	Melanesian
678	Papua New Guinean
679	Solomon Islander
680	New Hebrides

681-699 Other Pacific Islander

681	Pacific Islander
682	Reserve Pacific Islander 1
683	Reserve Pacific Islander 2
684	Reserve Pacific Islander 3
685	Reserve Pacific Islander 4
686	Reserve Pacific Islander 5
687	Reserve Pacific Islander 6
688	Reserve Pacific Islander 7
689	Reserve Pacific Islander 8
690	Reserve Pacific Islander 9
691	Reserve Pacific Islander 10
692	Reserve Pacific Islander 11
693	Reserve Pacific Islander 12
694	Reserve Pacific Islander 13
695	Reserve Pacific Islander 14
696	Asian or Pacific Islander
697	Reserve Asian or Pacific Islander 1
698	Reserve Asian or Pacific Islander 2
699	Reserve Asian or Pacific Islander 3

700-799, 986, 987-999 Other Race

700-748 Hispanic Origin

700	Argentinian
701	Bolivian
702	Boricua
703	Californio
704	Central American
705	Chicano
706	Chilean
707	Colombian
708	Costa Rican
709	Cuban
710	Dominican
711	Ecuatorian (Ecuadorian)

700-748 Hispanic Origin—Con.

712	Salvadoran
713-714	Galapagos
715	Guajiro
716	Guatemalan
717	Hispanic
718	Honduran
719	La Raza
720	Latin American
721	Mestizo
722	Mexican
723	Nicaraguan
724	Panamanian
725	Paraguayo
726	Peruvian
727	Puerto Rican
728	Morena
729	South American
730	Spanish
731	Spanish-American
732	Spanish-Mexican
733	Sudamericano
734	Uruguayan
735	Venezuelan
736	Reserve Hispanic 2
737	Reserve Hispanic 3
738	Reserve Hispanic 4
739	Reserve Hispanic 5
740	Reserve Hispanic 6
741	Reserve Hispanic 7
742	Reserve Hispanic 8
743	Reserve Hispanic 9
744	Reserve Hispanic 10
745	Reserve Hispanic 11
746	Reserve Hispanic 12
747	Reserve Hispanic 13
748	Reserve Hispanic 14

749-799, 986, 987-999 Not of Hispanic Origin

749-750	Brava
751	Brazil
752	Brown
753	Bushwacker
754	Cajun
755	Cape Verdean
756	Chocolate
757	Coe Clan
758	Coffee
759	Cosmopolitan
760	Issues
761	Jackson White
762	Lapp
763	Melungeon
764	Mixed
765	Ramp
766	Tunica
767	Wesort

749-799, 986, 987-999 Not of Hispanic Origin—Con.

768	Mulatto
769	Moor
770	Biracial/Interracial
771	Creole
772	Indian
773	Turk
774	Half-Breed
775	Rainbow
776	Octoroon
777	Quadroon
778	Reserve Non-Hispanic 3
779	Reserve Non-Hispanic 4
780	Reserve Non-Hispanic 5
781	Reserve Non-Hispanic 6
782	Reserve Non-Hispanic 7
783	Reserve Non-Hispanic 8
784	Reserve Non-Hispanic 9
785	Reserve Non-Hispanic 10
786	Reserve Non-Hispanic 11
787	Reserve Non-Hispanic 12
788	Reserve Non-Hispanic 13
789	Reserve Non-Hispanic 14
790	Reserve Non-Hispanic 15
791	Reserve Non-Hispanic 16
792	Reserve Non-Hispanic 17
793	Reserve Non-Hispanic 18
794	Reserve Non-Hispanic 19
795	Reserve Non-Hispanic 20
796	Reserve Non-Hispanic 21
797	Reserve Non-Hispanic 22
798	Trinidad
799	Other race, not elsewhere classified
986	Other race (FOSDIC circle)
987-999	Reserve Other race

800-869, 971 White

800	White
801	Arab
802	English
803	French
804	German
805	Irish
806	Italian
807	Near Easterner
808	Polish
809	Scottish
810	White and Black
811	White Amerind
812	White Chinese
813	White Formosan/Taiwanese
814	White Filipino
815	White Hawaiian
816	White Korean
817	White Vietnamese
818	White Japanese

800-869, 971 White—Con.

819	White Asian Indian
820	White Samoan
821	White Guamanian
822	White Bangladeshi
823	White Burmese
824	White Cambodian (Kampuchean)
825	White Hmong
826	White Indonesian
827	White Laotian
828	White Malayan
829	White Okinawan
830	White Pakistani
831	White Sri Lankan
832	White Thai
833	White Fijian
834	White Palauan
835	White Tahitian
836	White Tongan
837	White Other Asian or Pacific Islander
838	White Eskimo
839	White Aleut
840	Reserve White 3
841	Reserve White 4
842	Reserve White 5
843	Reserve White 6
844	Reserve White 7
845	Reserve White 8
846	Reserve White 9
847	Reserve White 10
848	Reserve White 11
849	Reserve White 12
850	Reserve White 13
851	Reserve White 14
852	Reserve White 15
853	Reserve White 16
854	Reserve White 17
855	Reserve White 18
856	Reserve White 19
857	Reserve White 20
858	Reserve White 21
859	Reserve White 22
860	Reserve White 23
861	Reserve White 24
862	Reserve White 25
863	Reserve White 26
864	Reserve White 27
865	Reserve White 28
866	Reserve White 29
867	Reserve White 30
868	Reserve White 31
869	White Cherokee
971	White (FOSDIC circle)

870-934, 972 Black or Negro

870	Black
871	African

870-934, 972 Black or Negro—Con.

872	African American
873	Afro-American
874	Nigritian
875	Black and White
876	Black Amerind
877	Black Chinese
878	Black Formosan/Taiwanese
879	Black Filipino
880	Black Hawaiian
881	Black Korean
882	Black Vietnamese
883	Black Japanese
884	Black Asian Indian
885	Black Samoan
886	Black Guamanian
887	Black Bangladeshi
888	Black Burmese
889	Black Cambodian (Kampuchean)
890	Black Hmong
891	Black Indonesian
892	Black Laotian
893	Black Malayan
894	Black Okinawan
895	Black Pakistani
896	Black Sri Lankan
897	Black Thai
898	Black Fijian
899	Black Palauan
900	Black Tahitian
901	Black Tongan
902	Black Other Asian or Pacific Islander
903	Black Eskimo
904	Black Aleut
905	Reserve Black 3
906	Reserve Black 4
907	Reserve Black 5
908	Reserve Black 6
909	Reserve Black 7
910	Reserve Black 8
911	Reserve Black 9
912	Reserve Black 10
913	Reserve Black 11
914	Reserve Black 12
915	Reserve Black 13
916	Reserve Black 14
917	Reserve Black 15
918	Reserve Black 16
919	Reserve Black 17
920	Reserve Black 18
921	Reserve Black 19
922	Reserve Black 20
923	Reserve Black 21

870-934, 972 Black or Negro—Con.

924	Reserve Black 22
925	Reserve Black 23
926	Reserve Black 24
927	Reserve Black 25
928	Reserve Black 26
929	Reserve Black 27
930	Reserve Black 28
931	Reserve Black 29
932	Reserve Black 30
933	Reserve Black 31
934	Black Cherokee
972	Black or Negro (FOSDIC circle)

935-940, 974 Eskimo

935	Eskimo
936	Reserve Eskimo 1
937	Reserve Eskimo 2
938	Reserve Eskimo 3
939	Reserve Eskimo 4
940	Wales
974	Eskimo (FOSDIC circle)

941-970, 975 Aleut

941	Aleut
942	Reserve Aleut 1
943	Reserve Aleut 2
944	Reserve Aleut 3
945	Reserve Aleut 4
946-970	Reserve Aleut 5
975	Aleut (FOSDIC circle)

971-986 FOSDIC Circle Codes

971	See White
972	See Black or Negro
973	See American Indian
974	See Eskimo
975	See Aleut
976	See Asian
977	See Asian
978	See Pacific Islander
979	See Asian
980	See Asian
981	See Asian
982	See Asian
983	See Pacific Islander
984	See Pacific Islander
985	See Asian
986	See Other race

987-999 Reserve Other Race

UNITED STATES DEPARTMENT OF COMMERCE
Bureau of the Census
Washington, DC 20233-0001

CENSUS OF POPULATION AND HOUSING, 1990: SUBJECT SUMMARY TAPE FILE (SSTF) 21, CHARACTERISTICS OF THE BLACK POPULATION

USER NOTE 6

Tables (Matrices) PA19, PA20 and PB34 - From 1940 to 1980, data for the education question were based on the highest grade completed. In the 1990 census, the education question was changed to ask respondents for the highest level of schooling completed. As a result, the derived level of enrollment for some persons may not be accurate. For example, the data presented by age groups show that an enrollment level of "preprimary school" is assigned to all persons who reported they had "no school completed."

December 1995