

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Investigators and adjusters, except insurance (376):			
	(Repeat SEX).....	4369	4369	227,1
	Eligibility clerks, social welfare (377):			
	(Repeat SEX).....	4387	4387	228,1
	Bill and account collectors (378):			
	(Repeat SEX).....	4405	4405	229,1
	General office clerks (379-382):			
	(Repeat SEX).....	4423	4423	230,1
	Bank tellers (383):			
	(Repeat SEX).....	4441	4441	231,1
	Proofreaders (384):			
	(Repeat SEX).....	4459	4459	232,1
	Data-entry keyers (385):			
	(Repeat SEX).....	4477	4477	233,1
	Statistical clerks (386):			
	(Repeat SEX).....	4495	4495	234,1
	Teachers' aides (387-388):			
	(Repeat SEX).....	4513	4513	235,1
	Administrative support occupations, n.e.c. (389-402):			
	(Repeat SEX).....	4531	4531	236,1
	Launderers and ironers (403):			
	(Repeat SEX).....	4549	4549	237,1
	Cooks, private household (404):			
	(Repeat SEX).....	4567	4567	238,1
	Housekeepers and butlers (405):			
	(Repeat SEX).....	4585	4585	239,1
	Child care workers, private household (406):			
	(Repeat SEX).....	4603	4603	240,1
	Private household cleaners and servants (407-412):			
	(Repeat SEX).....	4621	4621	241,1
	Supervisors, firefighting and fire prevention occupations (413):			
	(Repeat SEX).....	4639	4639	242,1
	Supervisors, police and detectives (414):			
	(Repeat SEX).....	4657	4657	243,1
	Supervisors, guards (415):			
	(Repeat SEX).....	4675	4675	244,1
	Fire inspection and fire prevention occupations (416):			
	(Repeat SEX).....	4693	4693	245,1
	Firefighting occupations (417):			
	(Repeat SEX).....	4711	4711	246,1
	Police and detectives, public service (418-422):			
	(Repeat SEX).....	4729	4729	247,1
	Sheriffs, bailiffs, and other law enforcement officers (423):			
	(Repeat SEX).....	4747	4747	248,1
	Correctional institution officers (424):			
	(Repeat SEX).....	4765	4765	249,1
	Crossing guards (425):			
	(Repeat SEX).....	4783	4783	250,1
	Guards and police, except public service (426):			
	(Repeat SEX).....	4801	4801	251,1
	Protective service occupations, n.e.c. (427-432):			
	(Repeat SEX).....	4819	4819	252,1
	Supervisors, food preparation and service occupations (433):			
	(Repeat SEX).....	4837	4837	253,1
	Bartenders (434):			
	(Repeat SEX).....	4855	4855	254,1
	Waiters and waitresses (435):			
	(Repeat SEX).....	4873	4873	255,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Cooks (436-437):			
	(Repeat SEX)	4891	4891	256,1
	Food counter, fountain and related occupations (438):			
	(Repeat SEX)	4909	4909	257,1
	Kitchen workers, food preparation (439-442):			
	(Repeat SEX)	4927	4927	258,1
	Waiters' /waitresses' assistants (443):			
	(Repeat SEX)	4945	4945	259,1
	Miscellaneous food preparation occupations (444):			
	(Repeat SEX)	4963	4963	260,1
	Dental assistants (445):			
	(Repeat SEX)	4981	4981	261,1
	Health aides, except nursing (446):			
	(Repeat SEX)	4999	4999	262,1
	Nursing aides, orderlies, and attendants (447):			
	(Repeat SEX)	5017	5017	263,1
	Supervisors, cleaning and building service workers (448):			
	(Repeat SEX)	5035	5035	264,1
	Maids and housemen (449-452):			
	(Repeat SEX)	5053	5053	265,1
	Janitors and cleaners (453):			
	(Repeat SEX)	5071	5071	266,1
	Elevator operators (454):			
	(Repeat SEX)	5089	5089	267,1
	Pest control occupations (455):			
	(Repeat SEX)	5107	5107	268,1
	Supervisors, personal service occupations (456):			
	(Repeat SEX)	5125	5125	269,1
	Barbers (457):			
	(Repeat SEX)	5143	5143	270,1
	Hairdressers and cosmetologists (458):			
	(Repeat SEX)	5161	5161	271,1
	Attendants, amusement and recreation facilities (459-460):			
	(Repeat SEX)	5179	5179	272,1
	Guides (461):			
	(Repeat SEX)	5197	5197	273,1
	Ushers (462):			
	(Repeat SEX)	5215	5215	274,1
	Public transportation attendants (463):			
	(Repeat SEX)	5233	5233	275,1
	Baggage porters and bellhops (464):			
	(Repeat SEX)	5251	5251	276,1
	Welfare service aides (465):			
	(Repeat SEX)	5269	5269	277,1
	Family child care providers (466):			
	(Repeat SEX)	5287	5287	278,1
	Early childhood teacher's assistants (467):			
	(Repeat SEX)	5305	5305	279,1
	Child care workers, n.e.c. (468):			
	(Repeat SEX)	5323	5323	280,1
	Personal service occupations, n.e.c. (469-472):			
	(Repeat SEX)	5341	5341	281,1
	Farmers, except horticultural (473):			
	(Repeat SEX)	5359	5359	282,1
	Horticultural specialty farmers (474):			
	(Repeat SEX)	5377	5377	283,1
	Managers, farms, except horticultural (475):			
	(Repeat SEX)	5395	5395	284,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Managers, horticultural specialty farms (476):			
	(Repeat SEX).....	5413	5413.....	285,1
	Supervisors, farm workers (477-478):			
	(Repeat SEX).....	5431	5431.....	286,1
	Farm workers (479-482):			
	(Repeat SEX).....	5449	5449.....	287,1
	Marine life cultivation workers (483):			
	(Repeat SEX).....	5467	5467.....	288,1
	Nursery workers (484):			
	(Repeat SEX).....	5485	5485.....	289,1
	Supervisors, related agricultural occupations (485):			
	(Repeat SEX).....	5503	5503.....	290,1
	Groundskeepers and gardeners, except farm (486):			
	(Repeat SEX).....	5521	5521.....	291,1
	Animal caretakers, except farm (487):			
	(Repeat SEX).....	5539	5539.....	292,1
	Graders and sorters, agricultural products (488):			
	(Repeat SEX).....	5557	5557.....	293,1
	Inspectors, agricultural products (489-493):			
	(Repeat SEX).....	5575	5575.....	294,1
	Supervisors, forestry and logging workers (494):			
	(Repeat SEX).....	5593	5593.....	295,1
	Forestry workers, except logging (495):			
	(Repeat SEX).....	5611	5611.....	296,1
	Timber cutting and logging occupations (496):			
	(Repeat SEX).....	5629	5629.....	297,1
	Captains and other officers, fishing vessels (497):			
	(Repeat SEX).....	5647	5647.....	298,1
	Fishers (498):			
	(Repeat SEX).....	5665	5665.....	299,1
	Hunters and trappers (499-502):			
	(Repeat SEX).....	5683	5683.....	300,1
	Supervisors, mechanics and repairers (503-504):			
	(Repeat SEX).....	5701	5701.....	301,1
	Automobile mechanics, except apprentices (505):			
	(Repeat SEX).....	5719	5719.....	302,1
	Automobile mechanic apprentices (506):			
	(Repeat SEX).....	5737	5737.....	303,1
	Bus, truck, and stationary engine mechanics (507):			
	(Repeat SEX).....	5755	5755.....	304,1
	Aircraft engine mechanics (508):			
	(Repeat SEX).....	5773	5773.....	305,1
	Small engine repairers (509-513):			
	(Repeat SEX).....	5791	5791.....	306,1
	Automobile body and related repairers (514):			
	(Repeat SEX).....	5809	5809.....	307,1
	Aircraft mechanics, except engine (515):			
	(Repeat SEX).....	5827	5827.....	308,1
	Heavy equipment mechanics (516):			
	(Repeat SEX).....	5845	5845.....	309,1
	Farm equipment mechanics (517):			
	(Repeat SEX).....	5863	5863.....	310,1
	Industrial machinery repairers (518):			
	(Repeat SEX).....	5881	5881.....	311,1
	Machinery maintenance occupations (519-522):			
	(Repeat SEX).....	5899	5899.....	312,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Electronic repairers, communications and industrial equipment (523-524):			
	(Repeat SEX)	5917.....	5917.....	313,1
	Data processing equipment repairers (525):			
	(Repeat SEX)	5935.....	5935.....	314,1
	Household appliance and power tool repairers (526):			
	(Repeat SEX)	5953.....	5953.....	315,1
	Telephone line installers and repairers (527-528):			
	(Repeat SEX)	5971.....	5971.....	316,1
	Telephone installers and repairers (529-532):			
	(Repeat SEX)	5989.....	5989.....	317,1
	Miscellaneous electrical and electronic equipment repairers (533):			
	(Repeat SEX)	6007.....	6007.....	318,1
	Heating, air conditioning, and refrigeration mechanics (534):			
	(Repeat SEX)	6025.....	6025.....	319,1
	Camera, watch, and musical instrument repairers (535):			
	(Repeat SEX)	6043.....	6043.....	320,1
	Locksmiths and safe repairers (536-537):			
	(Repeat SEX)	6061.....	6061.....	321,1
	Office machine repairers (538):			
	(Repeat SEX)	6079.....	6079.....	322,1
	Mechanical controls and valve repairers (539-542):			
	(Repeat SEX)	6097.....	6097.....	323,1
	Elevator installers and repairers (543):			
	(Repeat SEX)	6115.....	6115.....	324,1
	Millwrights (544-546):			
	(Repeat SEX)	6133.....	6133.....	325,1
	Specified mechanics and repairers, n.e.c. (547-548):			
	(Repeat SEX)	6151.....	6151.....	326,1
	Not specified mechanics and repairers (549-552):			
	(Repeat SEX)	6169.....	6169.....	327,1
	Supervisors, brickmasons, stonemasons, and tile setters (553):			
	(Repeat SEX)	6187.....	6187.....	328,1
	Supervisors, carpenters and related workers (554):			
	(Repeat SEX)	6205.....	6205.....	329,1
	Supervisors, electricians and power transmission installers (555):			
	(Repeat SEX)	6223.....	6223.....	330,1
	Supervisors, painters, paperhangers, and plasterers (556):			
	(Repeat SEX)	6241.....	6241.....	331,1
	Supervisors, plumbers, pipefitters, and steamfitters (557):			
	(Repeat SEX)	6259.....	6259.....	332,1
	Supervisors, construction, n.e.c. (558-562):			
	(Repeat SEX)	6277.....	6277.....	333,1
	Brickmasons and stonemasons, except apprentices (563):			
	(Repeat SEX)	6295.....	6295.....	334,1
	Brickmason and stonemason apprentices (564):			
	(Repeat SEX)	6313.....	6313.....	335,1
	Tile setters, hard and soft (565):			
	(Repeat SEX)	6331.....	6331.....	336,1
	Carpet installers (566):			
	(Repeat SEX)	6349.....	6349.....	337,1
	Carpenters, except apprentices (567-568):			
	(Repeat SEX)	6367.....	6367.....	338,1
	Carpenter apprentices (569-572):			
	(Repeat SEX)	6385.....	6385.....	339,1
	Drywall installers (573-574):			
	(Repeat SEX)	6403.....	6403.....	340,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Electricians, except apprentices (575):			
	(Repeat SEX).....	6421	6421	341,1
	Electrician apprentices (576):			
	(Repeat SEX).....	6439	6439.....	342,1
	Electrical power installers and repairers (577-578):			
	(Repeat SEX).....	6457	6457.....	343,1
	Painters, construction and maintenance (579-582):			
	(Repeat SEX).....	6475	6475.....	344,1
	Paperhangers (583):			
	(Repeat SEX).....	6493	6493.....	345,1
	Plasterers (584):			
	(Repeat SEX).....	6511	6511.....	346,1
	Plumbers, pipefitters, and steamfitters, except apprentices (585-586):			
	(Repeat SEX).....	6529	6529.....	347,1
	Plumber, pipefitter, and steamfitter apprentices (587):			
	(Repeat SEX).....	6547	6547.....	348,1
	Concrete and terrazzo finishers (588):			
	(Repeat SEX).....	6565	6565.....	349,1
	Glaziers (589-592):			
	(Repeat SEX).....	6583	6583.....	350,1
	Insulation workers (593):			
	(Repeat SEX).....	6601	6601.....	351,1
	Paving, surfacing, and tamping equipment operators (594):			
	(Repeat SEX).....	6619	6619.....	352,1
	Roofers (595):			
	(Repeat SEX).....	6637	6637.....	353,1
	Sheetmetal duct installers (596):			
	(Repeat SEX).....	6655	6655.....	354,1
	Structural metal workers (597):			
	(Repeat SEX).....	6673	6673.....	355,1
	Drillers, earth (598):			
	(Repeat SEX).....	6691	6691.....	356,1
	Construction trades, n.e.c. (599-612):			
	(Repeat SEX).....	6709	6709.....	357,1
	Supervisors, extractive occupations (613):			
	(Repeat SEX).....	6727	6727.....	358,1
	Drillers, oil well (614):			
	(Repeat SEX).....	6745	6745.....	359,1
	Explosives workers (615):			
	(Repeat SEX).....	6763	6763.....	360,1
	Mining machine operators (616):			
	(Repeat SEX).....	6781	6781.....	361,1
	Mining occupations, n.e.c. (617-627):			
	(Repeat SEX).....	6799	6799.....	362,1
	Supervisors, production occupations (628-633):			
	(Repeat SEX).....	6817	6817.....	363,1
	Tool and die makers, except apprentices (634):			
	(Repeat SEX).....	6835	6835.....	364,1
	Tool and die maker apprentices (635):			
	(Repeat SEX).....	6853	6853.....	365,1
	Precision assemblers, metal (636):			
	(Repeat SEX).....	6871	6871.....	366,1
	Machinists, except apprentices (637-638):			
	(Repeat SEX).....	6889	6889.....	367,1
	Machinist apprentices (639-642):			
	(Repeat SEX).....	6907	6907.....	368,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Boilermakers (643):			
	(Repeat SEX)	6925	6925	369,1
	Precision grinders, filers, and tool sharpeners (644):			
	(Repeat SEX)	6943	6943	370,1
	Patternmakers and model makers, metal (645):			
	(Repeat SEX)	6961	6961	371,1
	Lay-out workers (646):			
	(Repeat SEX)	6979	6979	372,1
	Precious stones and metals workers (Jewelers) (647-648):			
	(Repeat SEX)	6997	6997	373,1
	Engravers, metal (649-652):			
	(Repeat SEX)	7015	7015	374,1
	Sheet metal workers, except apprentices (653):			
	(Repeat SEX)	7033	7033	375,1
	Sheet metal worker apprentices (654):			
	(Repeat SEX)	7051	7051	376,1
	Miscellaneous precision metal workers (655):			
	(Repeat SEX)	7069	7069	377,1
	Patternmakers and model makers, wood (656):			
	(Repeat SEX)	7087	7087	378,1
	Cabinet makers and bench carpenters (657):			
	(Repeat SEX)	7105	7105	379,1
	Furniture and wood finishers (658):			
	(Repeat SEX)	7123	7123	380,1
	Miscellaneous precision woodworkers (659-665):			
	(Repeat SEX)	7141	7141	381,1
	Dressmakers (666):			
	(Repeat SEX)	7159	7159	382,1
	Tailors (667):			
	(Repeat SEX)	7177	7177	383,1
	Upholsterers (668):			
	(Repeat SEX)	7195	7195	384,1
	Shoe repairers (669-673):			
	(Repeat SEX)	7213	7213	385,1
	Miscellaneous precision apparel and fabric workers (674):			
	(Repeat SEX)	7231	7231	386,1
	Hand molders and shapers, except jewelers (675):			
	(Repeat SEX)	7249	7249	387,1
	Patternmakers, lay-out workers, and cutters (676):			
	(Repeat SEX)	7267	7267	388,1
	Optical goods workers (677):			
	(Repeat SEX)	7285	7285	389,1
	Dental laboratory and medical appliance technicians (678):			
	(Repeat SEX)	7303	7303	390,1
	Bookbinders (679-682):			
	(Repeat SEX)	7321	7321	391,1
	Electrical and electronic equipment assemblers (683):			
	(Repeat SEX)	7339	7339	392,1
	Miscellaneous precision workers, n.e.c. (684-685):			
	(Repeat SEX)	7357	7357	393,1
	Butchers and meat cutters (686):			
	(Repeat SEX)	7375	7375	394,1
	Bakers (687):			
	(Repeat SEX)	7393	7393	395,1
	Food batchmakers (688):			
	(Repeat SEX)	7411	7411	396,1
	Inspectors, testers, and graders (689-692):			
	(Repeat SEX)	7429	7429	397,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Adjusters and calibrators (693):			
	(Repeat SEX).....	7447	7447.....	398,1
	Water and sewage treatment plant operators (694):			
	(Repeat SEX).....	7465	7465.....	399,1
	Power plant operators (695):			
	(Repeat SEX).....	7483	7483.....	400,1
	Stationary engineers (696-698):			
	(Repeat SEX).....	7501	7501.....	401,1
	Miscellaneous plant and system operators (699-702):			
	(Repeat SEX).....	7519	7519.....	402,1
	Lathe and turning machine set-up operators (703):			
	(Repeat SEX).....	7537	7537.....	403,1
	Lathe and turning machine operators (704):			
	(Repeat SEX).....	7555	7555.....	404,1
	Milling and planing machine operators (705):			
	(Repeat SEX).....	7573	7573.....	405,1
	Punching and stamping press machine operators (706):			
	(Repeat SEX).....	7591	7591.....	406,1
	Rolling machine operators (707):			
	(Repeat SEX).....	7609	7609.....	407,1
	Drilling and boring machine operators (708):			
	(Repeat SEX).....	7627	7627.....	408,1
	Grinding, abrading, buffing, and polishing machine operators (709-712):			
	(Repeat SEX).....	7645	7645.....	409,1
	Forging machine operators (713):			
	(Repeat SEX).....	7663	7663.....	410,1
	Numerical control machine operators (714):			
	(Repeat SEX).....	7681	7681.....	411,1
	Miscellaneous metal, plastic, stone, and glass working machine operators (715-716):			
	(Repeat SEX).....	7699	7699.....	412,1
	Fabricating machine operators, n.e.c. (717-718):			
	(Repeat SEX).....	7717	7717.....	413,1
	Molding and casting machine operators (719-722):			
	(Repeat SEX).....	7735	7735.....	414,1
	Metal plating machine operators (723):			
	(Repeat SEX).....	7753	7753.....	415,1
	Heat treating equipment operators (724):			
	(Repeat SEX).....	7771	7771.....	416,1
	Miscellaneous metal and plastic processing machine operators (725):			
	(Repeat SEX).....	7789	7789.....	417,1
	Wood lathe, routing, and planing machine operators (726):			
	(Repeat SEX).....	7807	7807.....	418,1
	Sawing machine operators (727):			
	(Repeat SEX).....	7825	7825.....	419,1
	Shaping and joining machine operators (728):			
	(Repeat SEX).....	7843	7843.....	420,1
	Nailing and tacking machine operators (729-732):			
	(Repeat SEX).....	7861	7861.....	421,1
	Miscellaneous woodworking machine operators (733):			
	(Repeat SEX).....	7879	7879.....	422,1
	Printing press operators (734):			
	(Repeat SEX).....	7897	7897.....	423,1
	Photoengravers and lithographers (735):			
	(Repeat SEX).....	7915	7915.....	424,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Typesetters and compositors (736):			
	(Repeat SEX)	7933	7933	425,1
	Miscellaneous printing machine operators (737):			
	(Repeat SEX)	7951	7951	426,1
	Winding and twisting machine operators (738):			
	(Repeat SEX)	7969	7969	427,1
	Knitting, looping, taping, and weaving machine operators (739-742):			
	(Repeat SEX)	7987	7987	428,1
	Textile cutting machine operators (743):			
	(Repeat SEX)	8005	8005	429,1
	Textile sewing machine operators (744):			
	(Repeat SEX)	8023	8023	430,1
	Shoe machine operators (745-746):			
	(Repeat SEX)	8041	8041	431,1
	Pressing machine operators (747):			
	(Repeat SEX)	8059	8059	432,1
	Laundering and dry cleaning machine operators (748):			
	(Repeat SEX)	8077	8077	433,1
	Miscellaneous textile machine operators (749-752):			
	(Repeat SEX)	8095	8095	434,1
	Cementing and gluing machine operators (753):			
	(Repeat SEX)	8113	8113	435,1
	Packaging and filling machine operators (754):			
	(Repeat SEX)	8131	8131	436,1
	Filler	8149	8149	
	End of Segment			
	Extruding and forming machine operators (755):			
	(Repeat SEX)	8455	301	437,1
	Mixing and blending machine operators (756):			
	(Repeat SEX)	8473	319	438,1
	Separating, filtering, and clarifying machine operators (757):			
	(Repeat SEX)	8491	337	439,1
	Compressing and compacting machine operators (758):			
	(Repeat SEX)	8509	355	440,1
	Painting and paint spraying machine operators (759-762):			
	(Repeat SEX)	8527	373	441,1
	Roasting and baking machine operators, food (763):			
	(Repeat SEX)	8545	391	442,1
	Washing, cleaning, and pickling machine operators (764):			
	(Repeat SEX)	8563	409	443,1
	Folding machine operators (765):			
	(Repeat SEX)	8581	427	444,1
	Furnace, kiln, and oven operators, except food (766-767):			
	(Repeat SEX)	8599	445	445,1
	Crushing and grinding machine operators (768):			
	(Repeat SEX)	8617	463	446,1
	Slicing and cutting machine operators (769-772):			
	(Repeat SEX)	8635	481	447,1
	Motion picture projectionists (773):			
	(Repeat SEX)	8653	499	448,1
	Photographic process machine operators (774-776):			
	(Repeat SEX)	8671	517	449,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Manufacturing, nondurable goods (777-778) (Industry codes 100-229): ²			
	(Repeat SEX).....	8689	535.....	450,1
	Manufacturing, durable goods (777-778) (Industry codes 230-399): ²			
	(Repeat SEX).....	8707	553.....	451,1
	Nonmanufacturing industries (777-778) (Industry codes 010-099, 400-999): ²			
	(Repeat SEX).....	8725	571.....	452,1
	Manufacturing, nondurable goods (779-782) (Industry codes 100-229): ³			
	(Repeat SEX).....	8743	589.....	453,1
	Manufacturing, durable goods (779-782) (Industry codes 230-399): ³			
	(Repeat SEX).....	8761	607.....	454,1
	Nonmanufacturing industries (779-782) (Industry codes 010-099, 400-999): ³			
	(Repeat SEX).....	8779	625.....	455,1
	Welders and cutters (783):			
	(Repeat SEX).....	8797	643.....	456,1
	Solderers and brazers (784):			
	(Repeat SEX).....	8815	661.....	457,1
	Assemblers (785):			
	(Repeat SEX).....	8833	679.....	458,1
	Hand cutting and trimming occupations (786):			
	(Repeat SEX).....	8851	697.....	459,1
	Hand molding, casting, and forming occupations (787-788):			
	(Repeat SEX).....	8869	715.....	460,1
	Hand painting, coating, and decorating occupations (789-792):			
	(Repeat SEX).....	8887	733.....	461,1
	Hand engraving and printing occupations (793-794):			
	(Repeat SEX).....	8905	751.....	462,1
	Miscellaneous hand working occupations (795):			
	(Repeat SEX).....	8923	769.....	463,1
	Production inspectors, checkers, and examiners (796):			
	(Repeat SEX).....	8941	787.....	464,1
	Production testers (797):			
	(Repeat SEX).....	8959	805.....	465,1
	Production samplers and weighers (798):			
	(Repeat SEX).....	8977	823.....	466,1
	Graders and sorters, except agricultural (799-802):			
	(Repeat SEX).....	8995	841.....	467,1
	Supervisors, motor vehicle operators (803):			
	(Repeat SEX).....	9013	859.....	468,1
	Truck drivers (804-805):			
	(Repeat SEX).....	9031	877.....	469,1
	Driver-sales workers (806-807):			
	(Repeat SEX).....	9049	895.....	470,1
	Bus drivers (808):			
	(Repeat SEX).....	9067	913.....	471,1
	Taxicab drivers and chauffeurs (809-812):			
	(Repeat SEX).....	9085	931.....	472,1
	Parking lot attendants (813):			
	(Repeat SEX).....	9103	949.....	473,1
	Motor transportation occupations, n.e.c. (814-822):			
	(Repeat SEX).....	9121	967.....	474,1
	Railroad conductors and yardmasters (823):			
	(Repeat SEX).....	9139	985.....	475,1

²Industry tally of occupation "Miscellaneous machine operators, n.e.c."

³Industry tally of occupation "Machine operators, not specified."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con.			
	Locomotive operating occupations (824):			
	(Repeat SEX)	9157	1003	476,1
	Railroad brake, signal, and switch operators (825):			
	(Repeat SEX)	9175	1021	477,1
	Rail vehicle operators, n.e.c. (826-827):			
	(Repeat SEX)	9193	1039	478,1
	Ship captains and mates, except fishing boats (828):			
	(Repeat SEX)	9211	1057	479,1
	Sailors and deckhands (829-832):			
	(Repeat SEX)	9229	1075	480,1
	Marine engineers (833):			
	(Repeat SEX)	9247	1093	481,1
	Bridge, lock, and lighthouse tenders (834-842):			
	(Repeat SEX)	9265	1111	482,1
	Supervisors, material moving equipment operators (843):			
	(Repeat SEX)	9283	1129	483,1
	Operating engineers (844):			
	(Repeat SEX)	9301	1147	484,1
	Longshore equipment operators (845-847):			
	(Repeat SEX)	9319	1165	485,1
	Hoist and winch operators (848):			
	(Repeat SEX)	9337	1183	486,1
	Crane and tower operators (849-852):			
	(Repeat SEX)	9355	1201	487,1
	Excavating and loading machine operators (853-854):			
	(Repeat SEX)	9373	1219	488,1
	Grader, dozer, and scraper operators (855):			
	(Repeat SEX)	9391	1237	489,1
	Industrial truck and tractor equipment operators (856-858):			
	(Repeat SEX)	9409	1255	490,1
	Miscellaneous material moving equipment operators (859-863):			
	(Repeat SEX)	9427	1273	491,1
	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (864):			
	(Repeat SEX)	9445	1291	492,1
	Helpers, mechanics, and repairers (865):			
	(Repeat SEX)	9463	1309	493,1
	Helpers, construction trades (866):			
	(Repeat SEX)	9481	1327	494,1
	Helpers, surveyor (867):			
	(Repeat SEX)	9499	1345	495,1
	Helpers, extractive occupations (868):			
	(Repeat SEX)	9517	1363	496,1
	Construction laborers (869-873):			
	(Repeat SEX)	9535	1381	497,1
	Production helpers (874):			
	(Repeat SEX)	9553	1399	498,1
	Garbage collectors (875):			
	(Repeat SEX)	9571	1417	499,1
	Stevedores (876):			
	(Repeat SEX)	9589	1435	500,1
	Stock handlers and baggers (877):			
	(Repeat SEX)	9607	1453	501,1
	Machine feeders and offbearers (878-882):			
	(Repeat SEX)	9625	1471	502,1
	Freight, stock, and material handlers, n.e.c. (883-884):			
	(Repeat SEX)	9643	1489	503,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P1.	DETAILED OCCUPATION(512) BY SEX(2) [1024]—Con. Garage and service station related occupations (885-886): (Repeat SEX).....	9661	1507.....	504,1
	Vehicle washers and equipment cleaners (887): (Repeat SEX).....	9679	1525.....	505,1
	Hand packers and packagers (888): (Repeat SEX).....	9697	1543.....	506,1
	Manufacturing, nondurable goods (889-902) (Industry codes 100-229): ⁴ (Repeat SEX).....	9715	1561.....	507,1
	Manufacturing, durable goods (889-902) (Industry codes 230-399): ⁴ (Repeat SEX).....	9733	1579.....	508,1
	Transportation, communications, and other public utilities (889-902) (Industry codes 400-499): ⁴ (Repeat SEX).....	9751	1597.....	509,1
	Wholesale and retail trade (889-902) (Industry codes 500-699): ⁴ (Repeat SEX).....	9769	1615.....	510,1
	All other industries (889-902) (Industry codes 010-099, 700-999): ⁴ (Repeat SEX).....	9787	1633.....	511,1
	Unemployed, no recent civilian work experience (000, 903-999): (Repeat SEX).....	9805	1651.....	512,1
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144] <i>Universe: Civilian labor force</i> Legislators (001-003): Male:			
	Hispanic origin	9823	1669.....	1,1,1
	White, not of Hispanic origin	9832	1678.....	1,1,2
	Black, not of Hispanic origin.....	9841	1687.....	1,1,3
	American Indian, Eskimo, or Aleut, not of Hispanic origin.....	9850	1696.....	1,1,4
	Asian or Pacific Islander, not of Hispanic origin	9859	1705.....	1,1,5
	Other race, not of Hispanic origin	9868	1714.....	1,1,6
	Female: (Repeat HISPANIC ORIGIN AND RACE)	9877	1723.....	1,2,1
	Chief executives and general administrators, public administration (004): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	9931	1777.....	2,1,1
	Administrators and officials, public administration (005): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10039	1885.....	3,1,1
	Administrators, protective services (006): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10147	1993.....	4,1,1
	Financial managers (007): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10255	2101.....	5,1,1
	Personnel and labor relations managers (008): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10363	2209.....	6,1,1
	Purchasing managers (009-012): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10471	2317.....	7,1,1
	Managers, marketing, advertising, and public relations (013): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10579	2425.....	8,1,1
	Administrators, education and related fields (014): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10687	2533.....	9,1,1
	Managers, medicine and health (015): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10795	2641.....	10,1,1
	Postmasters and mail superintendents (016): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	10903	2749.....	11,1,1

⁴Industry tally of occupation "Laborers, except construction."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Managers, food serving and lodging establishments (017):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11011	2857	12,1,1
	Managers, properties and real estate (018):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11119	2965	13,1,1
	Funeral directors (019-020):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11227	3073	14,1,1
	Managers, service organizations, n.e.c. (021):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11335	3181	15,1,1
	Managers and administrators, n.e.c., salaried (022) (Class of worker codes 1-5, 7, 9): ¹			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11443	3289	16,1,1
	Managers and administrators, n.e.c., self-employed (022) (Class of worker codes 6, 8): ¹			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11551	3397	17,1,1
	Accountants and auditors (023):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11659	3505	18,1,1
	Underwriters (024):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11767	3613	19,1,1
	Other financial officers (025):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11875	3721	20,1,1
	Management analysts (026):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	11983	3829	21,1,1
	Personnel, training, and labor relations specialists (027):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12091	3937	22,1,1
	Purchasing agents and buyers, farm products (028):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12199	4045	23,1,1
	Buyers, wholesale and retail trade, except farm products (029-032):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12307	4153	24,1,1
	Purchasing agents and buyers, n.e.c. (033):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12415	4261	25,1,1
	Business and promotion agents (034):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12523	4369	26,1,1
	Construction inspectors (035):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12631	4477	27,1,1
	Inspectors and compliance officers, except construction (036):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12739	4585	28,1,1
	Management related occupations, n.e.c. (037-042):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12847	4693	29,1,1
	Architects (043):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	12955	4801	30,1,1
	Aerospace (044):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13063	4909	31,1,1
	Metallurgical and materials (045):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13171	5017	32,1,1
	Mining (046):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13279	5125	33,1,1
	Petroleum (047):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13387	5233	34,1,1
	Chemical (048):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13495	5341	35,1,1
	Nuclear (049-052):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13603	5449	36,1,1
	Civil (053):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13711	5557	37,1,1
	Agricultural (054):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	13819	5665	38,1,1

¹See How to Use this File chapter for class of worker code definitions.

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Electrical and electronic (055):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	13927	5773.....	39,1,1
	Industrial (056):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14035	5881.....	40,1,1
	Mechanical (057):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14143	5989.....	41,1,1
	Marine and naval architects (058):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14251	6097.....	42,1,1
	Engineers, n.e.c. (059-062):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14359	6205.....	43,1,1
	Surveyors and mapping scientists (063):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14467	6313.....	44,1,1
	Computer systems analysts and scientists (064):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14575	6421.....	45,1,1
	Operations and systems researchers and analysts (065):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14683	6529.....	46,1,1
	Actuaries (066):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14791	6637.....	47,1,1
	Statisticians (067):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	14899	6745.....	48,1,1
	Mathematical scientists, n.e.c. (068):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15007	6853.....	49,1,1
	Physicists and astronomers (069-072):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15115	6961.....	50,1,1
	Chemists, except biochemists (073):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15223	7069.....	51,1,1
	Atmospheric and space scientists (074):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15331	7177.....	52,1,1
	Geologists and geodesists (075):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15439	7285.....	53,1,1
	Physical scientists, n.e.c. (076):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15547	7393.....	54,1,1
	Agricultural and food scientists (077):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15655	7501.....	55,1,1
	Biological and life scientists (078):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15763	7609.....	56,1,1
	Forestry and conservation scientists (079-082):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15871	7717.....	57,1,1
	Medical scientists (083):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	15979	7825.....	58,1,1
	Physicians (084):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16087	7933.....	59,1,1
	Dentists (085):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16195	8041.....	60,1,1
	Filler.....	16303	8149	
	End of Segment			
	Veterinarians (086):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16609	301.....	61,1,1
	Optometrists (087):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16717	409.....	62,1,1
	Podiatrists (088):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16825	517.....	63,1,1
	Health diagnosing practitioners, n.e.c. (089-094):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	16933	625.....	64,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Registered nurses (095):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17041	733	65,1,1
	Pharmacists (096):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17149	841	66,1,1
	Dietitians (097):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17257	949	67,1,1
	Respiratory therapists (098):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17365	1057	68,1,1
	Occupational therapists (099-102):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17473	1165	69,1,1
	Physical therapists (103):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17581	1273	70,1,1
	Speech therapists (104):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17689	1381	71,1,1
	Therapists, n.e.c. (105):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17797	1489	72,1,1
	Physicians' assistants (106-112):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	17905	1597	73,1,1
	Earth, environmental, and marine science teachers (113):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18013	1705	74,1,1
	Biological science teachers (114):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18121	1813	75,1,1
	Chemistry teachers (115):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18229	1921	76,1,1
	Physics teachers (116):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18337	2029	77,1,1
	Natural science teachers, n.e.c. (117):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18445	2137	78,1,1
	Psychology teachers (118):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18553	2245	79,1,1
	Economics teachers (119-122):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18661	2353	80,1,1
	History teachers (123):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18769	2461	81,1,1
	Political science teachers (124):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18877	2569	82,1,1
	Sociology teachers (125):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	18985	2677	83,1,1
	Social science teachers, n.e.c. (126):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19093	2785	84,1,1
	Engineering teachers (127):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19201	2893	85,1,1
	Mathematical science teachers (128):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19309	3001	86,1,1
	Computer science teachers (129-132):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19417	3109	87,1,1
	Medical science teachers (133):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19525	3217	88,1,1
	Health specialties teachers (134):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19633	3325	89,1,1
	Business, commerce, and marketing teachers (135):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19741	3433	90,1,1
	Agriculture and forestry teachers (136):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19849	3541	91,1,1
	Art, drama, and music teachers (137):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	19957	3649	92,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Physical education teachers (138):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20065	3757.....	93,1,1
	Education teachers (139-142):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20173	3865.....	94,1,1
	English teachers (143):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20281	3973.....	95,1,1
	Foreign language teachers (144):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20389	4081.....	96,1,1
	Law teachers (145):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20497	4189.....	97,1,1
	Social work teachers (146):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20605	4297.....	98,1,1
	Theology teachers (147):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20713	4405.....	99,1,1
	Trade and industrial teachers (148):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20821	4513.....	100,1,1
	Home economics teachers (149-152):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	20929	4621.....	101,1,1
	Teachers, postsecondary, n.e.c. (153):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21037	4729.....	102,1,1
	Postsecondary teachers, subject not specified (154):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21145	4837.....	103,1,1
	Teachers, prekindergarten and kindergarten (155):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21253	4945.....	104,1,1
	Teachers, elementary school (156):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21361	5053.....	105,1,1
	Teachers, secondary school (157):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21469	5161.....	106,1,1
	Teachers, special education (158):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21577	5269.....	107,1,1
	Teachers, n.e.c. (159-162):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21685	5377.....	108,1,1
	Counselors, educational and vocational (163):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21793	5485.....	109,1,1
	Librarians (164):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	21901	5593.....	110,1,1
	Archivists and curators (165):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22009	5701.....	111,1,1
	Economists (166):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22117	5809.....	112,1,1
	Psychologists (167):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22225	5917.....	113,1,1
	Sociologists (168):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22333	6025.....	114,1,1
	Social scientists, n.e.c. (169-172):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22441	6133.....	115,1,1
	Urban planners (173):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22549	6241.....	116,1,1
	Social workers (174):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22657	6349.....	117,1,1
	Recreation workers (175):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22765	6457.....	118,1,1
	Clergy (176):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22873	6565.....	119,1,1
	Religious workers, n.e.c. (177):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	22981	6673.....	120,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Lawyers (178):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23089.....	6781	121,1,1
	Judges (179-182):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23197.....	6889	122,1,1
	Authors (183):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23305.....	6997	123,1,1
	Technical writers (184):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23413.....	7105	124,1,1
	Designers (185):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23521.....	7213	125,1,1
	Musicians and composers (186):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23629.....	7321	126,1,1
	Actors and directors (187):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23737.....	7429	127,1,1
	Painters, sculptors, craft-artists, and artist printmakers (188):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23845.....	7537	128,1,1
	Photographers (189-192):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	23953.....	7645	129,1,1
	Dancers (193):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24061.....	7753	130,1,1
	Artists, performers, and related workers, n.e.c. (194):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24169.....	7861	131,1,1
	Editors and reporters (195-196):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24277.....	7969	132,1,1
	Public relations specialists (197):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24385.....	8077	133,1,1
	Filler	24457.....	8149	
	End of Segment			
	Public relations specialists (197):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)—Con.	24763.....	301	133,2,3
	Announcers (198):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24799.....	337	134,1,1
	Athletes (199-202):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	24907.....	445	135,1,1
	Clinical laboratory technologists and technicians (203):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25015.....	553	136,1,1
	Dental hygienists (204):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25123.....	661	137,1,1
	Health record technologists and technicians (205):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25231.....	769	138,1,1
	Radiologic technicians (206):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25339.....	877	139,1,1
	Licensed practical nurses (207):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25447.....	985	140,1,1
	Health technologists and technicians, n.e.c. (208-212):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25555.....	1093	141,1,1
	Electrical and electronic technicians (213):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25663.....	1201	142,1,1
	Industrial engineering technicians (214):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25771.....	1309	143,1,1
	Mechanical engineering technicians (215):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25879.....	1417	144,1,1
	Engineering technicians, n.e.c. (216):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	25987.....	1525	145,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Drafting occupations (217):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26095	1633.....	146,1,1
	Surveying and mapping technicians (218-222):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26203	1741.....	147,1,1
	Biological technicians (223):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26311	1849.....	148,1,1
	Chemical technicians (224):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26419	1957.....	149,1,1
	Science technicians, n.e.c. (225):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26527	2065.....	150,1,1
	Airplane pilots and navigators (226):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26635	2173.....	151,1,1
	Air traffic controllers (227):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26743	2281.....	152,1,1
	Broadcast equipment operators (228):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26851	2389.....	153,1,1
	Computer programmers (229-232):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	26959	2497.....	154,1,1
	Tool programmers, numerical control (233):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27067	2605.....	155,1,1
	Legal assistants (234):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27175	2713.....	156,1,1
	Technicians, n.e.c. (235-242):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27283	2821.....	157,1,1
	Supervisors and proprietors, sales occupations, salaried (243-252)			
	(Class of worker codes 1-5, 7, 9): ¹			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27391	2929.....	158,1,1
	Supervisors and proprietors, sales occupations, self employed			
	(243-252) (Class of worker codes 6, 8): ¹			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27499	3037.....	159,1,1
	Insurance sales occupations (253):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27607	3145.....	160,1,1
	Real estate sales occupations (254):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27715	3253.....	161,1,1
	Securities and financial services sales occupations (255):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27823	3361.....	162,1,1
	Advertising and related sales occupations (256):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	27931	3469.....	163,1,1
	Sales occupations, other business services (257):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28039	3577.....	164,1,1
	Sales engineers (258):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28147	3685.....	165,1,1
	Sales representatives, mining, manufacturing, and wholesale			
	(259-262):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28255	3793.....	166,1,1
	Sales workers, motor vehicles and boats (263):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28363	3901.....	167,1,1
	Sales workers, apparel (264):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28471	4009.....	168,1,1
	Sales workers, shoes (265):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28579	4117.....	169,1,1
	Sales workers, furniture and home furnishings (266):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28687	4225.....	170,1,1
	Sales workers, radio, TV, hi-fi, and appliances (267):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	28795	4333.....	171,1,1

¹See How to Use this File chapter for class of worker code definitions.

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Sales workers, hardware and building supplies (268): (Repeat SEX By HISPANIC ORIGIN AND RACE)	28903	4441	172,1,1
	Sales workers, parts (269-273): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29011	4549	173,1,1
	Sales workers, other commodities (274): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29119	4657	174,1,1
	Sales counter clerks (275): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29227	4765	175,1,1
	Cashiers (276): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29335	4873	176,1,1
	Street and door-to-door sales workers (277): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29443	4981	177,1,1
	News vendors (278-282): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29551	5089	178,1,1
	Demonstrators, promoters and models, sales (283): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29659	5197	179,1,1
	Auctioneers (284): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29767	5305	180,1,1
	Sales support occupations, n.e.c. (285-302): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29875	5413	181,1,1
	Supervisors, general office (303): (Repeat SEX By HISPANIC ORIGIN AND RACE)	29983	5521	182,1,1
	Supervisors, computer equipment operators (304): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30091	5629	183,1,1
	Supervisors, financial records processing (305): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30199	5737	184,1,1
	Chief communications operators (306): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30307	5845	185,1,1
	Supervisors, distribution, scheduling, and adjusting clerks (307): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30415	5953	186,1,1
	Computer operators (308): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30523	6061	187,1,1
	Peripheral equipment operators (309-312): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30631	6169	188,1,1
	Secretaries (313): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30739	6277	189,1,1
	Stenographers (314): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30847	6385	190,1,1
	Typists (315): (Repeat SEX By HISPANIC ORIGIN AND RACE)	30955	6493	191,1,1
	Interviewers (316): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31063	6601	192,1,1
	Hotel clerks (317): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31171	6709	193,1,1
	Transportation ticket and reservation agents (318): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31279	6817	194,1,1
	Receptionists (319-322): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31387	6925	195,1,1
	Information clerks, n.e.c. (323-324): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31495	7033	196,1,1
	Classified-ad clerks (325): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31603	7141	197,1,1
	Correspondence clerks (326): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31711	7249	198,1,1
	Order clerks (327): (Repeat SEX By HISPANIC ORIGIN AND RACE)	31819	7357	199,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Personnel clerks, except payroll and timekeeping (328): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	31927	7465.....	200,1,1
	Library clerks (329-334): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32035	7573.....	201,1,1
	File clerks (335): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32143	7681.....	202,1,1
	Records clerks (336): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32251	7789.....	203,1,1
	Bookkeepers, accounting, and auditing clerks (337): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32359	7897.....	204,1,1
	Payroll and timekeeping clerks (338): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32467	8005.....	205,1,1
	Billing clerks (339-342): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32575	8113.....	206,1,1
	Filler.....	32611	8149	
	End of Segment			
	Billing clerks (339-342): (Repeat SEX By HISPANIC ORIGIN AND RACE)—Con.....	32917	301.....	206,1,5
	Cost and rate clerks (343): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	32989	373.....	207,1,1
	Billing, posting, and calculating machine operators (344): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33097	481.....	208,1,1
	Duplicating machine operators (345): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33205	589.....	209,1,1
	Mail preparing and paper handling machine operators (346): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33313	697.....	210,1,1
	Office machine operators, n.e.c. (347): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33421	805.....	211,1,1
	Telephone operators (348-352): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33529	913.....	212,1,1
	Communications equipment operators, n.e.c. (353): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33637	1021.....	213,1,1
	Postal clerks, except mail carriers (354): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33745	1129.....	214,1,1
	Mail carriers, postal service (355): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33853	1237.....	215,1,1
	Mail clerks, except postal service (356): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	33961	1345.....	216,1,1
	Messengers (357-358): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34069	1453.....	217,1,1
	Dispatchers (359-362): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34177	1561.....	218,1,1
	Production coordinators (363): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34285	1669.....	219,1,1
	Traffic, shipping, and receiving clerks (364): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34393	1777.....	220,1,1
	Stock and inventory clerks (365): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34501	1885.....	221,1,1
	Meter readers (366-367): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34609	1993.....	222,1,1
	Weighers, measurers, checkers, and samplers (368-372): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34717	2101.....	223,1,1
	Expeditors (373): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	34825	2209.....	224,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Material recording, scheduling, and distributing clerks, n.e.c. (374):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	34933	2317	225,1,1
	Insurance adjusters, examiners, and investigators (375):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35041	2425	226,1,1
	Investigators and adjusters, except insurance (376):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35149	2533	227,1,1
	Eligibility clerks, social welfare (377):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35257	2641	228,1,1
	Bill and account collectors (378):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35365	2749	229,1,1
	General office clerks (379-382):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35473	2857	230,1,1
	Bank tellers (383):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35581	2965	231,1,1
	Proofreaders (384):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35689	3073	232,1,1
	Data-entry keyers (385):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35797	3181	233,1,1
	Statistical clerks (386):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	35905	3289	234,1,1
	Teachers' aides (387-388):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36013	3397	235,1,1
	Administrative support occupations, n.e.c. (389-402):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36121	3505	236,1,1
	Launderers and ironers (403):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36229	3613	237,1,1
	Cooks, private household (404):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36337	3721	238,1,1
	Housekeepers and butlers (405):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36445	3829	239,1,1
	Child care workers, private household (406):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36553	3937	240,1,1
	Private household cleaners and servants (407-412):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36661	4045	241,1,1
	Supervisors, firefighting and fire prevention occupations (413):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36769	4153	242,1,1
	Supervisors, police and detectives (414):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36877	4261	243,1,1
	Supervisors, guards (415):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	36985	4369	244,1,1
	Fire inspection and fire prevention occupations (416):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37093	4477	245,1,1
	Firefighting occupations (417):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37201	4585	246,1,1
	Police and detectives, public service (418-422):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37309	4693	247,1,1
	Sheriffs, bailiffs, and other law enforcement officers (423):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37417	4801	248,1,1
	Correctional institution officers (424):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37525	4909	249,1,1
	Crossing guards (425):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37633	5017	250,1,1
	Guards and police, except public service (426):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37741	5125	251,1,1
	Protective service occupations, n.e.c. (427-432):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	37849	5233	252,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Supervisors, food preparation and service occupations (433):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	37957	5341	253,1,1
	Bartenders (434):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38065	5449.....	254,1,1
	Waiters and waitresses (435):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38173	5557.....	255,1,1
	Cooks (436-437):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38281	5665.....	256,1,1
	Food counter, fountain and related occupations (438):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38389	5773.....	257,1,1
	Kitchen workers, food preparation (439-442):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38497	5881.....	258,1,1
	Waiters'/waitresses' assistants (443):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38605	5989.....	259,1,1
	Miscellaneous food preparation occupations (444):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38713	6097.....	260,1,1
	Dental assistants (445):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38821	6205.....	261,1,1
	Health aides, except nursing (446):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	38929	6313.....	262,1,1
	Nursing aides, orderlies, and attendants (447):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39037	6421.....	263,1,1
	Supervisors, cleaning and building service workers (448):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39145	6529.....	264,1,1
	Maids and housemen (449-452):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39253	6637.....	265,1,1
	Janitors and cleaners (453):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39361	6745.....	266,1,1
	Elevator operators (454):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39469	6853.....	267,1,1
	Pest control occupations (455):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39577	6961.....	268,1,1
	Supervisors, personal service occupations (456):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39685	7069.....	269,1,1
	Barbers (457):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39793	7177.....	270,1,1
	Hairdressers and cosmetologists (458):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	39901	7285.....	271,1,1
	Attendants, amusement and recreation facilities (459-460):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40009	7393.....	272,1,1
	Guides (461):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40117	7501.....	273,1,1
	Ushers (462):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40225	7609.....	274,1,1
	Public transportation attendants (463):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40333	7717.....	275,1,1
	Baggage porters and bellhops (464):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40441	7825.....	276,1,1
	Welfare service aides (465):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40549	7933.....	277,1,1
	Family child care providers (466):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	40657	8041.....	278,1,1
	Filler.....	40765	8149	
	End of Segment			

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Early childhood teacher's assistants (467):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41071	301	279,1,1
	Child care workers, n.e.c. (468):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41179	409	280,1,1
	Personal service occupations, n.e.c. (469-472):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41287	517	281,1,1
	Farmers, except horticultural (473):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41395	625	282,1,1
	Horticultural specialty farmers (474):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41503	733	283,1,1
	Managers, farms, except horticultural (475):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41611	841	284,1,1
	Managers, horticultural specialty farms (476):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41719	949	285,1,1
	Supervisors, farm workers (477-478):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41827	1057	286,1,1
	Farm workers (479-482):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	41935	1165	287,1,1
	Marine life cultivation workers (483):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42043	1273	288,1,1
	Nursery workers (484):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42151	1381	289,1,1
	Supervisors, related agricultural occupations (485):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42259	1489	290,1,1
	Groundskeepers and gardeners, except farm (486):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42367	1597	291,1,1
	Animal caretakers, except farm (487):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42475	1705	292,1,1
	Graders and sorters, agricultural products (488):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42583	1813	293,1,1
	Inspectors, agricultural products (489-493):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42691	1921	294,1,1
	Supervisors, forestry and logging workers (494):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42799	2029	295,1,1
	Forestry workers, except logging (495):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	42907	2137	296,1,1
	Timber cutting and logging occupations (496):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43015	2245	297,1,1
	Captains and other officers, fishing vessels (497):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43123	2353	298,1,1
	Fishers (498):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43231	2461	299,1,1
	Hunters and trappers (499-502):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43339	2569	300,1,1
	Supervisors, mechanics and repairers (503-504):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43447	2677	301,1,1
	Automobile mechanics, except apprentices (505):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43555	2785	302,1,1
	Automobile mechanic apprentices (506):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43663	2893	303,1,1
	Bus, truck, and stationary engine mechanics (507):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43771	3001	304,1,1
	Aircraft engine mechanics (508):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43879	3109	305,1,1
	Small engine repairers (509-513):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	43987	3217	306,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Automobile body and related repairers (514):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44095	3325	307,1,1
	Aircraft mechanics, except engine (515):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44203	3433	308,1,1
	Heavy equipment mechanics (516):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44311	3541	309,1,1
	Farm equipment mechanics (517):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44419	3649	310,1,1
	Industrial machinery repairers (518):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44527	3757	311,1,1
	Machinery maintenance occupations (519-522):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44635	3865	312,1,1
	Electronic repairers, communications and industrial equipment (523-524):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44743	3973	313,1,1
	Data processing equipment repairers (525):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44851	4081	314,1,1
	Household appliance and power tool repairers (526):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	44959	4189	315,1,1
	Telephone line installers and repairers (527-528):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45067	4297	316,1,1
	Telephone installers and repairers (529-532):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45175	4405	317,1,1
	Miscellaneous electrical and electronic equipment repairers (533):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45283	4513	318,1,1
	Heating, air conditioning, and refrigeration mechanics (534):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45391	4621	319,1,1
	Camera, watch, and musical instrument repairers (535):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45499	4729	320,1,1
	Locksmiths and safe repairers (536-537):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45607	4837	321,1,1
	Office machine repairers (538):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45715	4945	322,1,1
	Mechanical controls and valve repairers (539-542):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45823	5053	323,1,1
	Elevator installers and repairers (543):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	45931	5161	324,1,1
	Millwrights (544-546):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46039	5269	325,1,1
	Specified mechanics and repairers, n.e.c. (547-548):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46147	5377	326,1,1
	Not specified mechanics and repairers (549-552):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46255	5485	327,1,1
	Supervisors, brickmasons, stonemasons, and tile setters (553):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46363	5593	328,1,1
	Supervisors, carpenters and related workers (554):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46471	5701	329,1,1
	Supervisors, electricians and power transmission installers (555):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46579	5809	330,1,1
	Supervisors, painters, paperhangers, and plasterers (556):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46687	5917	331,1,1
	Supervisors, plumbers, pipefitters, and steamfitters (557):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46795	6025	332,1,1
	Supervisors, construction, n.e.c. (558-562):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	46903	6133	333,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Brickmasons and stonemasons, except apprentices (563): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47011	6241	334,1,1
	Brickmason and stonemason apprentices (564): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47119	6349	335,1,1
	Tile setters, hard and soft (565): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47227	6457	336,1,1
	Carpet installers (566): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47335	6565	337,1,1
	Carpenters, except apprentices (567-568): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47443	6673	338,1,1
	Carpenter apprentices (569-572): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47551	6781	339,1,1
	Drywall installers (573-574): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47659	6889	340,1,1
	Electricians, except apprentices (575): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47767	6997	341,1,1
	Electrician apprentices (576): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47875	7105	342,1,1
	Electrical power installers and repairers (577-578): (Repeat SEX By HISPANIC ORIGIN AND RACE)	47983	7213	343,1,1
	Painters, construction and maintenance (579-582): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48091	7321	344,1,1
	Paperhangers (583): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48199	7429	345,1,1
	Plasterers (584): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48307	7537	346,1,1
	Plumbers, pipefitters, and steamfitters, except apprentices (585-586): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48415	7645	347,1,1
	Plumber, pipefitter, and steamfitter apprentices (587): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48523	7753	348,1,1
	Concrete and terrazzo finishers (588): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48631	7861	349,1,1
	Glaziers (589-592): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48739	7969	350,1,1
	Insulation workers (593): (Repeat SEX By HISPANIC ORIGIN AND RACE)	48847	8077	351,1,1
	Filler	48919	8149	
	End of Segment			
	Insulation workers (593): (Repeat SEX By HISPANIC ORIGIN AND RACE)—Con.	49225	301	351,2,3
	Paving, surfacing, and tamping equipment operators (594): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49261	337	352,1,1
	Roofers (595): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49369	445	353,1,1
	Sheetmetal duct installers (596): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49477	553	354,1,1
	Structural metal workers (597): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49585	661	355,1,1
	Drillers, earth (598): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49693	769	356,1,1
	Construction trades, n.e.c. (599-612): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49801	877	357,1,1
	Supervisors, extractive occupations (613): (Repeat SEX By HISPANIC ORIGIN AND RACE)	49909	985	358,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Drillers, oil well (614):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50017	1093.....	359,1,1
	Explosives workers (615):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50125	1201.....	360,1,1
	Mining machine operators (616):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50233	1309.....	361,1,1
	Mining occupations, n.e.c. (617-627):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50341	1417.....	362,1,1
	Supervisors, production occupations (628-633):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50449	1525.....	363,1,1
	Tool and die makers, except apprentices (634):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50557	1633.....	364,1,1
	Tool and die maker apprentices (635):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50665	1741.....	365,1,1
	Precision assemblers, metal (636):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50773	1849.....	366,1,1
	Machinists, except apprentices (637-638):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50881	1957.....	367,1,1
	Machinist apprentices (639-642):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	50989	2065.....	368,1,1
	Boilermakers (643):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51097	2173.....	369,1,1
	Precision grinders, filers, and tool sharpeners (644):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51205	2281.....	370,1,1
	Patternmakers and model makers, metal (645):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51313	2389.....	371,1,1
	Lay-out workers (646):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51421	2497.....	372,1,1
	Precious stones and metals workers (Jewelers) (647-648):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51529	2605.....	373,1,1
	Engravers, metal (649-652):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51637	2713.....	374,1,1
	Sheet metal workers, except apprentices (653):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51745	2821.....	375,1,1
	Sheet metal worker apprentices (654):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51853	2929.....	376,1,1
	Miscellaneous precision metal workers (655):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	51961	3037.....	377,1,1
	Patternmakers and model makers, wood (656):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52069	3145.....	378,1,1
	Cabinet makers and bench carpenters (657):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52177	3253.....	379,1,1
	Furniture and wood finishers (658):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52285	3361.....	380,1,1
	Miscellaneous precision woodworkers (659-665):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52393	3469.....	381,1,1
	Dressmakers (666):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52501	3577.....	382,1,1
	Tailors (667):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52609	3685.....	383,1,1
	Upholsterers (668):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52717	3793.....	384,1,1
	Shoe repairers (669-673):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52825	3901.....	385,1,1
	Miscellaneous precision apparel and fabric workers (674):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	52933	4009.....	386,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Hand molders and shapers, except jewelers (675):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53041	4117	387,1,1
	Patternmakers, lay-out workers, and cutters (676):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53149	4225	388,1,1
	Optical goods workers (677):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53257	4333	389,1,1
	Dental laboratory and medical appliance technicians (678):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53365	4441	390,1,1
	Bookbinders (679-682):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53473	4549	391,1,1
	Electrical and electronic equipment assemblers (683):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53581	4657	392,1,1
	Miscellaneous precision workers, n.e.c. (684-685):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53689	4765	393,1,1
	Butchers and meat cutters (686):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53797	4873	394,1,1
	Bakers (687):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	53905	4981	395,1,1
	Food batchmakers (688):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54013	5089	396,1,1
	Inspectors, testers, and graders (689-692):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54121	5197	397,1,1
	Adjusters and calibrators (693):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54229	5305	398,1,1
	Water and sewage treatment plant operators (694):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54337	5413	399,1,1
	Power plant operators (695):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54445	5521	400,1,1
	Stationary engineers (696-698):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54553	5629	401,1,1
	Miscellaneous plant and system operators (699-702):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54661	5737	402,1,1
	Lathe and turning machine set-up operators (703):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54769	5845	403,1,1
	Lathe and turning machine operators (704):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54877	5953	404,1,1
	Milling and planing machine operators (705):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	54985	6061	405,1,1
	Punching and stamping press machine operators (706):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55093	6169	406,1,1
	Rolling machine operators (707):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55201	6277	407,1,1
	Drilling and boring machine operators (708):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55309	6385	408,1,1
	Grinding, abrading, buffing, and polishing machine operators (709-712):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55417	6493	409,1,1
	Forging machine operators (713):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55525	6601	410,1,1
	Numerical control machine operators (714):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55633	6709	411,1,1
	Miscellaneous metal, plastic, stone, and glass working machine operators (715-716):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55741	6817	412,1,1
	Fabricating machine operators, n.e.c. (717-718):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	55849	6925	413,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Molding and casting machine operators (719-722): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	55957	7033.....	414,1,1
	Metal plating machine operators (723): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56065	7141.....	415,1,1
	Heat treating equipment operators (724): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56173	7249.....	416,1,1
	Miscellaneous metal and plastic processing machine operators (725): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56281	7357.....	417,1,1
	Wood lathe, routing, and planing machine operators (726): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56389	7465.....	418,1,1
	Sawing machine operators (727): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56497	7573.....	419,1,1
	Shaping and joining machine operators (728): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56605	7681.....	420,1,1
	Nailing and tacking machine operators (729-732): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56713	7789.....	421,1,1
	Miscellaneous woodworking machine operators (733): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56821	7897.....	422,1,1
	Printing press operators (734): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	56929	8005.....	423,1,1
	Photoengravers and lithographers (735): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57037	8113.....	424,1,1
	Filler.....	57073	8149	
	End of Segment			
	Photoengravers and lithographers (735): (Repeat SEX By HISPANIC ORIGIN AND RACE)—Con.....	57379	301.....	424,1,5
	Typesetters and compositors (736): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57451	373.....	425,1,1
	Miscellaneous printing machine operators (737): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57559	481.....	426,1,1
	Winding and twisting machine operators (738): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57667	589.....	427,1,1
	Knitting, looping, taping, and weaving machine operators (739-742): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57775	697.....	428,1,1
	Textile cutting machine operators (743): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57883	805.....	429,1,1
	Textile sewing machine operators (744): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	57991	913.....	430,1,1
	Shoe machine operators (745-746): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58099	1021.....	431,1,1
	Pressing machine operators (747): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58207	1129.....	432,1,1
	Laundering and dry cleaning machine operators (748): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58315	1237.....	433,1,1
	Miscellaneous textile machine operators (749-752): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58423	1345.....	434,1,1
	Cementing and gluing machine operators (753): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58531	1453.....	435,1,1
	Packaging and filling machine operators (754): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58639	1561.....	436,1,1
	Extruding and forming machine operators (755): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58747	1669.....	437,1,1
	Mixing and blending machine operators (756): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	58855	1777.....	438,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Separating, filtering, and clarifying machine operators (757):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	58963.....	1885	439,1,1
	Compressing and compacting machine operators (758):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59071.....	1993	440,1,1
	Painting and paint spraying machine operators (759-762):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59179.....	2101	441,1,1
	Roasting and baking machine operators, food (763):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59287.....	2209	442,1,1
	Washing, cleaning, and pickling machine operators (764):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59395.....	2317	443,1,1
	Folding machine operators (765):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59503.....	2425	444,1,1
	Furnace, kiln, and oven operators, except food (766-767):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59611.....	2533	445,1,1
	Crushing and grinding machine operators (768):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59719.....	2641	446,1,1
	Slicing and cutting machine operators (769-772):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59827.....	2749	447,1,1
	Motion picture projectionists (773):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	59935.....	2857	448,1,1
	Photographic process machine operators (774-776):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60043.....	2965	449,1,1
	Manufacturing, nondurable goods (777-778) (Industry codes 100-229): ²			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60151.....	3073	450,1,1
	Manufacturing, durable goods (777-778) (Industry codes 230-399): ²			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60259.....	3181	451,1,1
	Nonmanufacturing industries (777-778) (Industry codes 010-099, 400-999): ²			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60367.....	3289	452,1,1
	Manufacturing, nondurable goods (779-782) (Industry codes 100-229): ³			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60475.....	3397	453,1,1
	Manufacturing, durable goods (779-782) (Industry codes 230-399): ³			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60583.....	3505	454,1,1
	Nonmanufacturing industries (779-782) (Industry codes 010-099, 400-999): ³			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60691.....	3613	455,1,1
	Welders and cutters (783):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60799.....	3721	456,1,1
	Solderers and brazers (784):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	60907.....	3829	457,1,1
	Assemblers (785):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61015.....	3937	458,1,1
	Hand cutting and trimming occupations (786):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61123.....	4045	459,1,1
	Hand molding, casting, and forming occupations (787-788):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61231.....	4153	460,1,1
	Hand painting, coating, and decorating occupations (789-792):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61339.....	4261	461,1,1
	Hand engraving and printing occupations (793-794):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61447.....	4369	462,1,1
	Miscellaneous hand working occupations (795):			
	(Repeat SEX By HISPANIC ORIGIN AND RACE)	61555.....	4477	463,1,1

²Industry tally of occupation "Miscellaneous machine operators, n.e.c."

³Industry tally of occupation "Machine operators, not specified."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Production inspectors, checkers, and examiners (796): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	61663	4585.....	464,1,1
	Production testers (797): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	61771	4693.....	465,1,1
	Production samplers and weighers (798): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	61879	4801.....	466,1,1
	Graders and sorters, except agricultural (799-802): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	61987	4909.....	467,1,1
	Supervisors, motor vehicle operators (803): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62095	5017.....	468,1,1
	Truck drivers (804-805): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62203	5125.....	469,1,1
	Driver-sales workers (806-807): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62311	5233.....	470,1,1
	Bus drivers (808): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62419	5341.....	471,1,1
	Taxicab drivers and chauffeurs (809-812): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62527	5449.....	472,1,1
	Parking lot attendants (813): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62635	5557.....	473,1,1
	Motor transportation occupations, n.e.c. (814-822): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62743	5665.....	474,1,1
	Railroad conductors and yardmasters (823): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62851	5773.....	475,1,1
	Locomotive operating occupations (824): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	62959	5881.....	476,1,1
	Railroad brake, signal, and switch operators (825): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63067	5989.....	477,1,1
	Rail vehicle operators, n.e.c. (826-827): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63175	6097.....	478,1,1
	Ship captains and mates, except fishing boats (828): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63283	6205.....	479,1,1
	Sailors and deckhands (829-832): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63391	6313.....	480,1,1
	Marine engineers (833): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63499	6421.....	481,1,1
	Bridge, lock, and lighthouse tenders (834-842): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63607	6529.....	482,1,1
	Supervisors, material moving equipment operators (843): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63715	6637.....	483,1,1
	Operating engineers (844): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63823	6745.....	484,1,1
	Longshore equipment operators (845-847): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	63931	6853.....	485,1,1
	Hoist and winch operators (848): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64039	6961.....	486,1,1
	Crane and tower operators (849-852): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64147	7069.....	487,1,1
	Excavating and loading machine operators (853-854): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64255	7177.....	488,1,1
	Grader, dozer, and scraper operators (855): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64363	7285.....	489,1,1
	Industrial truck and tractor equipment operators (856-858): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64471	7393.....	490,1,1
	Miscellaneous material moving equipment operators (859-863): (Repeat SEX By HISPANIC ORIGIN AND RACE).....	64579	7501.....	491,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P2.	DETAILED OCCUPATION(512) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [6144]—Con.			
	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (864): (Repeat SEX By HISPANIC ORIGIN AND RACE)	64687	7609	492,1,1
	Helpers, mechanics, and repairers (865): (Repeat SEX By HISPANIC ORIGIN AND RACE)	64795	7717	493,1,1
	Helpers, construction trades (866): (Repeat SEX By HISPANIC ORIGIN AND RACE)	64903	7825	494,1,1
	Helpers, surveyor (867): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65011	7933	495,1,1
	Helpers, extractive occupations (868): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65119	8041	496,1,1
	Filler	65227	8149	
	End of Segment			
	Construction laborers (869-873): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65533	301	497,1,1
	Production helpers (874): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65641	409	498,1,1
	Garbage collectors (875): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65749	517	499,1,1
	Stevedores (876): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65857	625	500,1,1
	Stock handlers and baggers (877): (Repeat SEX By HISPANIC ORIGIN AND RACE)	65965	733	501,1,1
	Machine feeders and offbearers (878-882): (Repeat SEX By HISPANIC ORIGIN AND RACE)	66073	841	502,1,1
	Freight, stock, and material handlers, n.e.c. (883-884): (Repeat SEX By HISPANIC ORIGIN AND RACE)	66181	949	503,1,1
	Garage and service station related occupations (885-886): (Repeat SEX By HISPANIC ORIGIN AND RACE)	66289	1057	504,1,1
	Vehicle washers and equipment cleaners (887): (Repeat SEX By HISPANIC ORIGIN AND RACE)	66397	1165	505,1,1
	Hand packers and packagers (888): (Repeat SEX By HISPANIC ORIGIN AND RACE)	66505	1273	506,1,1
	Manufacturing, nondurable goods (889-902) (Industry codes 100-229): ⁴ (Repeat SEX By HISPANIC ORIGIN AND RACE)	66613	1381	507,1,1
	Manufacturing, durable goods (889-902) (Industry codes 230-399): ⁴ (Repeat SEX By HISPANIC ORIGIN AND RACE)	66721	1489	508,1,1
	Transportation, communications, and other public utilities (889-902) (Industry codes 400-499): ⁴ (Repeat SEX By HISPANIC ORIGIN AND RACE)	66829	1597	509,1,1
	Wholesale and retail trade (889-902) (Industry codes 500-699): ⁴ (Repeat SEX By HISPANIC ORIGIN AND RACE)	66937	1705	510,1,1
	All other industries (889-902) (Industry codes 010-099, 700-999): ⁴ (Repeat SEX By HISPANIC ORIGIN AND RACE)	67045	1813	511,1,1
	Unemployed, no recent civilian work experience (000, 903-999): (Repeat SEX By HISPANIC ORIGIN AND RACE)	67153	1921	512,1,1
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120] <i>Universe: Civilian labor force</i>			
	Legislators (001-003):			
	Male:			
	White	67261	2029	1,1,1
	Black.....	67270	2038	1,1,2

⁴Industry tally of occupation "Laborers, except construction."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	American Indian, Eskimo, or Aleut	67279	2047.....	1,1,3
	Asian or Pacific Islander	67288	2056.....	1,1,4
	Other race.....	67297	2065.....	1,1,5
	Female:			
	(Repeat RACE)	67306	2074.....	1,2,1
	Chief executives and general administrators, public administration (004):			
	(Repeat SEX By RACE).....	67351	2119.....	2,1,1
	Administrators and officials, public administration (005):			
	(Repeat SEX By RACE).....	67441	2209.....	3,1,1
	Administrators, protective services (006):			
	(Repeat SEX By RACE).....	67531	2299.....	4,1,1
	Financial managers (007):			
	(Repeat SEX By RACE).....	67621	2389.....	5,1,1
	Personnel and labor relations managers (008):			
	(Repeat SEX By RACE).....	67711	2479.....	6,1,1
	Purchasing managers (009-012):			
	(Repeat SEX By RACE).....	67801	2569.....	7,1,1
	Managers, marketing, advertising, and public relations (013):			
	(Repeat SEX By RACE).....	67891	2659.....	8,1,1
	Administrators, education and related fields (014):			
	(Repeat SEX By RACE).....	67981	2749.....	9,1,1
	Managers, medicine and health (015):			
	(Repeat SEX By RACE).....	68071	2839.....	10,1,1
	Postmasters and mail superintendents (016):			
	(Repeat SEX By RACE).....	68161	2929.....	11,1,1
	Managers, food serving and lodging establishments (017):			
	(Repeat SEX By RACE).....	68251	3019.....	12,1,1
	Managers, properties and real estate (018):			
	(Repeat SEX By RACE).....	68341	3109.....	13,1,1
	Funeral directors (019-020):			
	(Repeat SEX By RACE).....	68431	3199.....	14,1,1
	Managers, service organizations, n.e.c. (021):			
	(Repeat SEX By RACE).....	68521	3289.....	15,1,1
	Managers and administrators, n.e.c., salaried (022) (Class of worker codes 1-5, 7, 9): ¹			
	(Repeat SEX By RACE).....	68611	3379.....	16,1,1
	Managers and administrators, n.e.c., self-employed (022) (Class of worker codes 6, 8): ¹			
	(Repeat SEX By RACE).....	68701	3469.....	17,1,1
	Accountants and auditors (023):			
	(Repeat SEX By RACE).....	68791	3559.....	18,1,1
	Underwriters (024):			
	(Repeat SEX By RACE).....	68881	3649.....	19,1,1
	Other financial officers (025):			
	(Repeat SEX By RACE).....	68971	3739.....	20,1,1
	Management analysts (026):			
	(Repeat SEX By RACE).....	69061	3829.....	21,1,1
	Personnel, training, and labor relations specialists (027):			
	(Repeat SEX By RACE).....	69151	3919.....	22,1,1
	Purchasing agents and buyers, farm products (028):			
	(Repeat SEX By RACE).....	69241	4009.....	23,1,1
	Buyers, wholesale and retail trade, except farm products (029-032):			
	(Repeat SEX By RACE).....	69331	4099.....	24,1,1
	Purchasing agents and buyers, n.e.c. (033):			
	(Repeat SEX By RACE).....	69421	4189.....	25,1,1
	Business and promotion agents (034):			
	(Repeat SEX By RACE).....	69511	4279.....	26,1,1

¹See How to Use this File chapter for class of worker code definitions.

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Construction inspectors (035):			
	(Repeat SEX By RACE)	69601	4369	27,1,1
	Inspectors and compliance officers, except construction (036):			
	(Repeat SEX By RACE)	69691	4459	28,1,1
	Management related occupations, n.e.c. (037-042):			
	(Repeat SEX By RACE)	69781	4549	29,1,1
	Architects (043):			
	(Repeat SEX By RACE)	69871	4639	30,1,1
	Aerospace (044):			
	(Repeat SEX By RACE)	69961	4729	31,1,1
	Metallurgical and materials (045):			
	(Repeat SEX By RACE)	70051	4819	32,1,1
	Mining (046):			
	(Repeat SEX By RACE)	70141	4909	33,1,1
	Petroleum (047):			
	(Repeat SEX By RACE)	70231	4999	34,1,1
	Chemical (048):			
	(Repeat SEX By RACE)	70321	5089	35,1,1
	Nuclear (049-052):			
	(Repeat SEX By RACE)	70411	5179	36,1,1
	Civil (053):			
	(Repeat SEX By RACE)	70501	5269	37,1,1
	Agricultural (054):			
	(Repeat SEX By RACE)	70591	5359	38,1,1
	Electrical and electronic (055):			
	(Repeat SEX By RACE)	70681	5449	39,1,1
	Industrial (056):			
	(Repeat SEX By RACE)	70771	5539	40,1,1
	Mechanical (057):			
	(Repeat SEX By RACE)	70861	5629	41,1,1
	Marine and naval architects (058):			
	(Repeat SEX By RACE)	70951	5719	42,1,1
	Engineers, n.e.c. (059-062):			
	(Repeat SEX By RACE)	71041	5809	43,1,1
	Surveyors and mapping scientists (063):			
	(Repeat SEX By RACE)	71131	5899	44,1,1
	Computer systems analysts and scientists (064):			
	(Repeat SEX By RACE)	71221	5989	45,1,1
	Operations and systems researchers and analysts (065):			
	(Repeat SEX By RACE)	71311	6079	46,1,1
	Actuaries (066):			
	(Repeat SEX By RACE)	71401	6169	47,1,1
	Statisticians (067):			
	(Repeat SEX By RACE)	71491	6259	48,1,1
	Mathematical scientists, n.e.c. (068):			
	(Repeat SEX By RACE)	71581	6349	49,1,1
	Physicists and astronomers (069-072):			
	(Repeat SEX By RACE)	71671	6439	50,1,1
	Chemists, except biochemists (073):			
	(Repeat SEX By RACE)	71761	6529	51,1,1
	Atmospheric and space scientists (074):			
	(Repeat SEX By RACE)	71851	6619	52,1,1
	Geologists and geodesists (075):			
	(Repeat SEX By RACE)	71941	6709	53,1,1
	Physical scientists, n.e.c. (076):			
	(Repeat SEX By RACE)	72031	6799	54,1,1
	Agricultural and food scientists (077):			
	(Repeat SEX By RACE)	72121	6889	55,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Biological and life scientists (078):			
	(Repeat SEX By RACE).....	72211	6979.....	56,1,1
	Forestry and conservation scientists (079-082):			
	(Repeat SEX By RACE).....	72301	7069.....	57,1,1
	Medical scientists (083):			
	(Repeat SEX By RACE).....	72391	7159.....	58,1,1
	Physicians (084):			
	(Repeat SEX By RACE).....	72481	7249.....	59,1,1
	Dentists (085):			
	(Repeat SEX By RACE).....	72571	7339.....	60,1,1
	Veterinarians (086):			
	(Repeat SEX By RACE).....	72661	7429.....	61,1,1
	Optometrists (087):			
	(Repeat SEX By RACE).....	72751	7519.....	62,1,1
	Podiatrists (088):			
	(Repeat SEX By RACE).....	72841	7609.....	63,1,1
	Health diagnosing practitioners, n.e.c. (089-094):			
	(Repeat SEX By RACE).....	72931	7699.....	64,1,1
	Registered nurses (095):			
	(Repeat SEX By RACE).....	73021	7789.....	65,1,1
	Pharmacists (096):			
	(Repeat SEX By RACE).....	73111	7879.....	66,1,1
	Dietitians (097):			
	(Repeat SEX By RACE).....	73201	7969.....	67,1,1
	Respiratory therapists (098):			
	(Repeat SEX By RACE).....	73291	8059.....	68,1,1
	Filler.....	73381	8149	
	End of Segment			
	Occupational therapists (099-102):			
	(Repeat SEX By RACE).....	73687	301.....	69,1,1
	Physical therapists (103):			
	(Repeat SEX By RACE).....	73777	391.....	70,1,1
	Speech therapists (104):			
	(Repeat SEX By RACE).....	73867	481.....	71,1,1
	Therapists, n.e.c. (105):			
	(Repeat SEX By RACE).....	73957	571.....	72,1,1
	Physicians' assistants (106-112):			
	(Repeat SEX By RACE).....	74047	661.....	73,1,1
	Earth, environmental, and marine science teachers (113):			
	(Repeat SEX By RACE).....	74137	751.....	74,1,1
	Biological science teachers (114):			
	(Repeat SEX By RACE).....	74227	841.....	75,1,1
	Chemistry teachers (115):			
	(Repeat SEX By RACE).....	74317	931.....	76,1,1
	Physics teachers (116):			
	(Repeat SEX By RACE).....	74407	1021.....	77,1,1
	Natural science teachers, n.e.c. (117):			
	(Repeat SEX By RACE).....	74497	1111.....	78,1,1
	Psychology teachers (118):			
	(Repeat SEX By RACE).....	74587	1201.....	79,1,1
	Economics teachers (119-122):			
	(Repeat SEX By RACE).....	74677	1291.....	80,1,1
	History teachers (123):			
	(Repeat SEX By RACE).....	74767	1381.....	81,1,1
	Political science teachers (124):			
	(Repeat SEX By RACE).....	74857	1471.....	82,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Sociology teachers (125):			
	(Repeat SEX By RACE)	74947	1561	83,1,1
	Social science teachers, n.e.c. (126):			
	(Repeat SEX By RACE)	75037	1651	84,1,1
	Engineering teachers (127):			
	(Repeat SEX By RACE)	75127	1741	85,1,1
	Mathematical science teachers (128):			
	(Repeat SEX By RACE)	75217	1831	86,1,1
	Computer science teachers (129-132):			
	(Repeat SEX By RACE)	75307	1921	87,1,1
	Medical science teachers (133):			
	(Repeat SEX By RACE)	75397	2011	88,1,1
	Health specialties teachers (134):			
	(Repeat SEX By RACE)	75487	2101	89,1,1
	Business, commerce, and marketing teachers (135):			
	(Repeat SEX By RACE)	75577	2191	90,1,1
	Agriculture and forestry teachers (136):			
	(Repeat SEX By RACE)	75667	2281	91,1,1
	Art, drama, and music teachers (137):			
	(Repeat SEX By RACE)	75757	2371	92,1,1
	Physical education teachers (138):			
	(Repeat SEX By RACE)	75847	2461	93,1,1
	Education teachers (139-142):			
	(Repeat SEX By RACE)	75937	2551	94,1,1
	English teachers (143):			
	(Repeat SEX By RACE)	76027	2641	95,1,1
	Foreign language teachers (144):			
	(Repeat SEX By RACE)	76117	2731	96,1,1
	Law teachers (145):			
	(Repeat SEX By RACE)	76207	2821	97,1,1
	Social work teachers (146):			
	(Repeat SEX By RACE)	76297	2911	98,1,1
	Theology teachers (147):			
	(Repeat SEX By RACE)	76387	3001	99,1,1
	Trade and industrial teachers (148):			
	(Repeat SEX By RACE)	76477	3091	100,1,1
	Home economics teachers (149-152):			
	(Repeat SEX By RACE)	76567	3181	101,1,1
	Teachers, postsecondary, n.e.c. (153):			
	(Repeat SEX By RACE)	76657	3271	102,1,1
	Postsecondary teachers, subject not specified (154):			
	(Repeat SEX By RACE)	76747	3361	103,1,1
	Teachers, prekindergarten and kindergarten (155):			
	(Repeat SEX By RACE)	76837	3451	104,1,1
	Teachers, elementary school (156):			
	(Repeat SEX By RACE)	76927	3541	105,1,1
	Teachers, secondary school (157):			
	(Repeat SEX By RACE)	77017	3631	106,1,1
	Teachers, special education (158):			
	(Repeat SEX By RACE)	77107	3721	107,1,1
	Teachers, n.e.c. (159-162):			
	(Repeat SEX By RACE)	77197	3811	108,1,1
	Counselors, educational and vocational (163):			
	(Repeat SEX By RACE)	77287	3901	109,1,1
	Librarians (164):			
	(Repeat SEX By RACE)	77377	3991	110,1,1
	Archivists and curators (165):			
	(Repeat SEX By RACE)	77467	4081	111,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Economists (166):			
	(Repeat SEX By RACE).....	77557	4171	112,1,1
	Psychologists (167):			
	(Repeat SEX By RACE).....	77647	4261	113,1,1
	Sociologists (168):			
	(Repeat SEX By RACE).....	77737	4351	114,1,1
	Social scientists, n.e.c. (169-172):			
	(Repeat SEX By RACE).....	77827	4441	115,1,1
	Urban planners (173):			
	(Repeat SEX By RACE).....	77917	4531	116,1,1
	Social workers (174):			
	(Repeat SEX By RACE).....	78007	4621	117,1,1
	Recreation workers (175):			
	(Repeat SEX By RACE).....	78097	4711	118,1,1
	Clergy (176):			
	(Repeat SEX By RACE).....	78187	4801	119,1,1
	Religious workers, n.e.c. (177):			
	(Repeat SEX By RACE).....	78277	4891	120,1,1
	Lawyers (178):			
	(Repeat SEX By RACE).....	78367	4981	121,1,1
	Judges (179-182):			
	(Repeat SEX By RACE).....	78457	5071	122,1,1
	Authors (183):			
	(Repeat SEX By RACE).....	78547	5161	123,1,1
	Technical writers (184):			
	(Repeat SEX By RACE).....	78637	5251	124,1,1
	Designers (185):			
	(Repeat SEX By RACE).....	78727	5341	125,1,1
	Musicians and composers (186):			
	(Repeat SEX By RACE).....	78817	5431	126,1,1
	Actors and directors (187):			
	(Repeat SEX By RACE).....	78907	5521	127,1,1
	Painters, sculptors, craft-artists, and artist printmakers (188):			
	(Repeat SEX By RACE).....	78997	5611	128,1,1
	Photographers (189-192):			
	(Repeat SEX By RACE).....	79087	5701	129,1,1
	Dancers (193):			
	(Repeat SEX By RACE).....	79177	5791	130,1,1
	Artists, performers, and related workers, n.e.c. (194):			
	(Repeat SEX By RACE).....	79267	5881	131,1,1
	Editors and reporters (195-196):			
	(Repeat SEX By RACE).....	79357	5971	132,1,1
	Public relations specialists (197):			
	(Repeat SEX By RACE).....	79447	6061	133,1,1
	Announcers (198):			
	(Repeat SEX By RACE).....	79537	6151	134,1,1
	Athletes (199-202):			
	(Repeat SEX By RACE).....	79627	6241	135,1,1
	Clinical laboratory technologists and technicians (203):			
	(Repeat SEX By RACE).....	79717	6331	136,1,1
	Dental hygienists (204):			
	(Repeat SEX By RACE).....	79807	6421	137,1,1
	Health record technologists and technicians (205):			
	(Repeat SEX By RACE).....	79897	6511	138,1,1
	Radiologic technicians (206):			
	(Repeat SEX By RACE).....	79987	6601	139,1,1
	Licensed practical nurses (207):			
	(Repeat SEX By RACE).....	80077	6691	140,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Health technologists and technicians, n.e.c. (208-212):			
	(Repeat SEX By RACE)	80167	6781	141,1,1
	Electrical and electronic technicians (213):			
	(Repeat SEX By RACE)	80257	6871	142,1,1
	Industrial engineering technicians (214):			
	(Repeat SEX By RACE)	80347	6961	143,1,1
	Mechanical engineering technicians (215):			
	(Repeat SEX By RACE)	80437	7051	144,1,1
	Engineering technicians, n.e.c. (216):			
	(Repeat SEX By RACE)	80527	7141	145,1,1
	Drafting occupations (217):			
	(Repeat SEX By RACE)	80617	7231	146,1,1
	Surveying and mapping technicians (218-222):			
	(Repeat SEX By RACE)	80707	7321	147,1,1
	Biological technicians (223):			
	(Repeat SEX By RACE)	80797	7411	148,1,1
	Chemical technicians (224):			
	(Repeat SEX By RACE)	80887	7501	149,1,1
	Science technicians, n.e.c. (225):			
	(Repeat SEX By RACE)	80977	7591	150,1,1
	Airplane pilots and navigators (226):			
	(Repeat SEX By RACE)	81067	7681	151,1,1
	Air traffic controllers (227):			
	(Repeat SEX By RACE)	81157	7771	152,1,1
	Broadcast equipment operators (228):			
	(Repeat SEX By RACE)	81247	7861	153,1,1
	Computer programmers (229-232):			
	(Repeat SEX By RACE)	81337	7951	154,1,1
	Tool programmers, numerical control (233):			
	(Repeat SEX By RACE)	81427	8041	155,1,1
	Legal assistants (234):			
	(Repeat SEX By RACE)	81517	8131	156,1,1
	Filler	81535	8149	
	End of Segment			
	Legal assistants (234):			
	(Repeat SEX By RACE)—Con.	81841	301	156,1,3
	Technicians, n.e.c. (235-242):			
	(Repeat SEX By RACE)	81913	373	157,1,1
	Supervisors and proprietors, sales occupations, salaried (243-252) (Class of worker codes 1-5, 7, 9): ¹			
	(Repeat SEX By RACE)	82003	463	158,1,1
	Supervisors and proprietors, sales occupations, self employed (243-252) (Class of worker codes 6, 8): ¹			
	(Repeat SEX By RACE)	82093	553	159,1,1
	Insurance sales occupations (253):			
	(Repeat SEX By RACE)	82183	643	160,1,1
	Real estate sales occupations (254):			
	(Repeat SEX By RACE)	82273	733	161,1,1
	Securities and financial services sales occupations (255):			
	(Repeat SEX By RACE)	82363	823	162,1,1
	Advertising and related sales occupations (256):			
	(Repeat SEX By RACE)	82453	913	163,1,1
	Sales occupations, other business services (257):			
	(Repeat SEX By RACE)	82543	1003	164,1,1

¹See How to Use this File chapter for class of worker code definitions.

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Sales engineers (258):			
	(Repeat SEX By RACE).....	82633	1093.....	165,1,1
	Sales representatives, mining, manufacturing, and wholesale (259-262):			
	(Repeat SEX By RACE).....	82723	1183.....	166,1,1
	Sales workers, motor vehicles and boats (263):			
	(Repeat SEX By RACE).....	82813	1273.....	167,1,1
	Sales workers, apparel (264):			
	(Repeat SEX By RACE).....	82903	1363.....	168,1,1
	Sales workers, shoes (265):			
	(Repeat SEX By RACE).....	82993	1453.....	169,1,1
	Sales workers, furniture and home furnishings (266):			
	(Repeat SEX By RACE).....	83083	1543.....	170,1,1
	Sales workers, radio, TV, hi-fi, and appliances (267):			
	(Repeat SEX By RACE).....	83173	1633.....	171,1,1
	Sales workers, hardware and building supplies (268):			
	(Repeat SEX By RACE).....	83263	1723.....	172,1,1
	Sales workers, parts (269-273):			
	(Repeat SEX By RACE).....	83353	1813.....	173,1,1
	Sales workers, other commodities (274):			
	(Repeat SEX By RACE).....	83443	1903.....	174,1,1
	Sales counter clerks (275):			
	(Repeat SEX By RACE).....	83533	1993.....	175,1,1
	Cashiers (276):			
	(Repeat SEX By RACE).....	83623	2083.....	176,1,1
	Street and door-to-door sales workers (277):			
	(Repeat SEX By RACE).....	83713	2173.....	177,1,1
	News vendors (278-282):			
	(Repeat SEX By RACE).....	83803	2263.....	178,1,1
	Demonstrators, promoters and models, sales (283):			
	(Repeat SEX By RACE).....	83893	2353.....	179,1,1
	Auctioneers (284):			
	(Repeat SEX By RACE).....	83983	2443.....	180,1,1
	Sales support occupations, n.e.c. (285-302):			
	(Repeat SEX By RACE).....	84073	2533.....	181,1,1
	Supervisors, general office (303):			
	(Repeat SEX By RACE).....	84163	2623.....	182,1,1
	Supervisors, computer equipment operators (304):			
	(Repeat SEX By RACE).....	84253	2713.....	183,1,1
	Supervisors, financial records processing (305):			
	(Repeat SEX By RACE).....	84343	2803.....	184,1,1
	Chief communications operators (306):			
	(Repeat SEX By RACE).....	84433	2893.....	185,1,1
	Supervisors, distribution, scheduling, and adjusting clerks (307):			
	(Repeat SEX By RACE).....	84523	2983.....	186,1,1
	Computer operators (308):			
	(Repeat SEX By RACE).....	84613	3073.....	187,1,1
	Peripheral equipment operators (309-312):			
	(Repeat SEX By RACE).....	84703	3163.....	188,1,1
	Secretaries (313):			
	(Repeat SEX By RACE).....	84793	3253.....	189,1,1
	Stenographers (314):			
	(Repeat SEX By RACE).....	84883	3343.....	190,1,1
	Typists (315):			
	(Repeat SEX By RACE).....	84973	3433.....	191,1,1
	Interviewers (316):			
	(Repeat SEX By RACE).....	85063	3523.....	192,1,1
	Hotel clerks (317):			
	(Repeat SEX By RACE).....	85153	3613.....	193,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Transportation ticket and reservation agents (318):			
	(Repeat SEX By RACE)	85243	3703	194,1,1
	Receptionists (319-322):			
	(Repeat SEX By RACE)	85333	3793	195,1,1
	Information clerks, n.e.c. (323-324):			
	(Repeat SEX By RACE)	85423	3883	196,1,1
	Classified-ad clerks (325):			
	(Repeat SEX By RACE)	85513	3973	197,1,1
	Correspondence clerks (326):			
	(Repeat SEX By RACE)	85603	4063	198,1,1
	Order clerks (327):			
	(Repeat SEX By RACE)	85693	4153	199,1,1
	Personnel clerks, except payroll and timekeeping (328):			
	(Repeat SEX By RACE)	85783	4243	200,1,1
	Library clerks (329-334):			
	(Repeat SEX By RACE)	85873	4333	201,1,1
	File clerks (335):			
	(Repeat SEX By RACE)	85963	4423	202,1,1
	Records clerks (336):			
	(Repeat SEX By RACE)	86053	4513	203,1,1
	Bookkeepers, accounting, and auditing clerks (337):			
	(Repeat SEX By RACE)	86143	4603	204,1,1
	Payroll and timekeeping clerks (338):			
	(Repeat SEX By RACE)	86233	4693	205,1,1
	Billing clerks (339-342):			
	(Repeat SEX By RACE)	86323	4783	206,1,1
	Cost and rate clerks (343):			
	(Repeat SEX By RACE)	86413	4873	207,1,1
	Billing, posting, and calculating machine operators (344):			
	(Repeat SEX By RACE)	86503	4963	208,1,1
	Duplicating machine operators (345):			
	(Repeat SEX By RACE)	86593	5053	209,1,1
	Mail preparing and paper handling machine operators (346):			
	(Repeat SEX By RACE)	86683	5143	210,1,1
	Office machine operators, n.e.c. (347):			
	(Repeat SEX By RACE)	86773	5233	211,1,1
	Telephone operators (348-352):			
	(Repeat SEX By RACE)	86863	5323	212,1,1
	Communications equipment operators, n.e.c. (353):			
	(Repeat SEX By RACE)	86953	5413	213,1,1
	Postal clerks, except mail carriers (354):			
	(Repeat SEX By RACE)	87043	5503	214,1,1
	Mail carriers, postal service (355):			
	(Repeat SEX By RACE)	87133	5593	215,1,1
	Mail clerks, except postal service (356):			
	(Repeat SEX By RACE)	87223	5683	216,1,1
	Messengers (357-358):			
	(Repeat SEX By RACE)	87313	5773	217,1,1
	Dispatchers (359-362):			
	(Repeat SEX By RACE)	87403	5863	218,1,1
	Production coordinators (363):			
	(Repeat SEX By RACE)	87493	5953	219,1,1
	Traffic, shipping, and receiving clerks (364):			
	(Repeat SEX By RACE)	87583	6043	220,1,1
	Stock and inventory clerks (365):			
	(Repeat SEX By RACE)	87673	6133	221,1,1
	Meter readers (366-367):			
	(Repeat SEX By RACE)	87763	6223	222,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Weighers, measurers, checkers, and samplers (368-372):			
	(Repeat SEX By RACE).....	87853	6313.....	223,1,1
	Expeditors (373):			
	(Repeat SEX By RACE).....	87943	6403.....	224,1,1
	Material recording, scheduling, and distributing clerks, n.e.c. (374):			
	(Repeat SEX By RACE).....	88033	6493.....	225,1,1
	Insurance adjusters, examiners, and investigators (375):			
	(Repeat SEX By RACE).....	88123	6583.....	226,1,1
	Investigators and adjusters, except insurance (376):			
	(Repeat SEX By RACE).....	88213	6673.....	227,1,1
	Eligibility clerks, social welfare (377):			
	(Repeat SEX By RACE).....	88303	6763.....	228,1,1
	Bill and account collectors (378):			
	(Repeat SEX By RACE).....	88393	6853.....	229,1,1
	General office clerks (379-382):			
	(Repeat SEX By RACE).....	88483	6943.....	230,1,1
	Bank tellers (383):			
	(Repeat SEX By RACE).....	88573	7033.....	231,1,1
	Proofreaders (384):			
	(Repeat SEX By RACE).....	88663	7123.....	232,1,1
	Data-entry keyers (385):			
	(Repeat SEX By RACE).....	88753	7213.....	233,1,1
	Statistical clerks (386):			
	(Repeat SEX By RACE).....	88843	7303.....	234,1,1
	Teachers' aides (387-388):			
	(Repeat SEX By RACE).....	88933	7393.....	235,1,1
	Administrative support occupations, n.e.c. (389-402):			
	(Repeat SEX By RACE).....	89023	7483.....	236,1,1
	Launderers and ironers (403):			
	(Repeat SEX By RACE).....	89113	7573.....	237,1,1
	Cooks, private household (404):			
	(Repeat SEX By RACE).....	89203	7663.....	238,1,1
	Housekeepers and butlers (405):			
	(Repeat SEX By RACE).....	89293	7753.....	239,1,1
	Child care workers, private household (406):			
	(Repeat SEX By RACE).....	89383	7843.....	240,1,1
	Private household cleaners and servants (407-412):			
	(Repeat SEX By RACE).....	89473	7933.....	241,1,1
	Supervisors, firefighting and fire prevention occupations (413):			
	(Repeat SEX By RACE).....	89563	8023.....	242,1,1
	Supervisors, police and detectives (414):			
	(Repeat SEX By RACE).....	89653	8113.....	243,1,1
	Filler.....	89689	8149	
	End of Segment			
	Supervisors, police and detectives (414):			
	(Repeat SEX By RACE)—Con.	89995	301.....	243,1,5
	Supervisors, guards (415):			
	(Repeat SEX By RACE).....	90049	355.....	244,1,1
	Fire inspection and fire prevention occupations (416):			
	(Repeat SEX By RACE).....	90139	445.....	245,1,1
	Firefighting occupations (417):			
	(Repeat SEX By RACE).....	90229	535.....	246,1,1
	Police and detectives, public service (418-422):			
	(Repeat SEX By RACE).....	90319	625.....	247,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Sheriffs, bailiffs, and other law enforcement officers (423):			
	(Repeat SEX By RACE)	90409.....	715	248,1,1
	Correctional institution officers (424):			
	(Repeat SEX By RACE)	90499.....	805	249,1,1
	Crossing guards (425):			
	(Repeat SEX By RACE)	90589.....	895	250,1,1
	Guards and police, except public service (426):			
	(Repeat SEX By RACE)	90679.....	985	251,1,1
	Protective service occupations, n.e.c. (427-432):			
	(Repeat SEX By RACE)	90769.....	1075	252,1,1
	Supervisors, food preparation and service occupations (433):			
	(Repeat SEX By RACE)	90859.....	1165	253,1,1
	Bartenders (434):			
	(Repeat SEX By RACE)	90949.....	1255	254,1,1
	Waiters and waitresses (435):			
	(Repeat SEX By RACE)	91039.....	1345	255,1,1
	Cooks (436-437):			
	(Repeat SEX By RACE)	91129.....	1435	256,1,1
	Food counter, fountain and related occupations (438):			
	(Repeat SEX By RACE)	91219.....	1525	257,1,1
	Kitchen workers, food preparation (439-442):			
	(Repeat SEX By RACE)	91309.....	1615	258,1,1
	Waiters' /waitresses' assistants (443):			
	(Repeat SEX By RACE)	91399.....	1705	259,1,1
	Miscellaneous food preparation occupations (444):			
	(Repeat SEX By RACE)	91489.....	1795	260,1,1
	Dental assistants (445):			
	(Repeat SEX By RACE)	91579.....	1885	261,1,1
	Health aides, except nursing (446):			
	(Repeat SEX By RACE)	91669.....	1975	262,1,1
	Nursing aides, orderlies, and attendants (447):			
	(Repeat SEX By RACE)	91759.....	2065	263,1,1
	Supervisors, cleaning and building service workers (448):			
	(Repeat SEX By RACE)	91849.....	2155	264,1,1
	Maids and housemen (449-452):			
	(Repeat SEX By RACE)	91939.....	2245	265,1,1
	Janitors and cleaners (453):			
	(Repeat SEX By RACE)	92029.....	2335	266,1,1
	Elevator operators (454):			
	(Repeat SEX By RACE)	92119.....	2425	267,1,1
	Pest control occupations (455):			
	(Repeat SEX By RACE)	92209.....	2515	268,1,1
	Supervisors, personal service occupations (456):			
	(Repeat SEX By RACE)	92299.....	2605	269,1,1
	Barbers (457):			
	(Repeat SEX By RACE)	92389.....	2695	270,1,1
	Hairdressers and cosmetologists (458):			
	(Repeat SEX By RACE)	92479.....	2785	271,1,1
	Attendants, amusement and recreation facilities (459-460):			
	(Repeat SEX By RACE)	92569.....	2875	272,1,1
	Guides (461):			
	(Repeat SEX By RACE)	92659.....	2965	273,1,1
	Ushers (462):			
	(Repeat SEX By RACE)	92749.....	3055	274,1,1
	Public transportation attendants (463):			
	(Repeat SEX By RACE)	92839.....	3145	275,1,1
	Baggage porters and bellhops (464):			
	(Repeat SEX By RACE)	92929.....	3235	276,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Welfare service aides (465):			
	(Repeat SEX By RACE).....	93019	3325.....	277,1,1
	Family child care providers (466):			
	(Repeat SEX By RACE).....	93109	3415.....	278,1,1
	Early childhood teacher's assistants (467):			
	(Repeat SEX By RACE).....	93199	3505.....	279,1,1
	Child care workers, n.e.c. (468):			
	(Repeat SEX By RACE).....	93289	3595.....	280,1,1
	Personal service occupations, n.e.c. (469-472):			
	(Repeat SEX By RACE).....	93379	3685.....	281,1,1
	Farmers, except horticultural (473):			
	(Repeat SEX By RACE).....	93469	3775.....	282,1,1
	Horticultural specialty farmers (474):			
	(Repeat SEX By RACE).....	93559	3865.....	283,1,1
	Managers, farms, except horticultural (475):			
	(Repeat SEX By RACE).....	93649	3955.....	284,1,1
	Managers, horticultural specialty farms (476):			
	(Repeat SEX By RACE).....	93739	4045.....	285,1,1
	Supervisors, farm workers (477-478):			
	(Repeat SEX By RACE).....	93829	4135.....	286,1,1
	Farm workers (479-482):			
	(Repeat SEX By RACE).....	93919	4225.....	287,1,1
	Marine life cultivation workers (483):			
	(Repeat SEX By RACE).....	94009	4315.....	288,1,1
	Nursery workers (484):			
	(Repeat SEX By RACE).....	94099	4405.....	289,1,1
	Supervisors, related agricultural occupations (485):			
	(Repeat SEX By RACE).....	94189	4495.....	290,1,1
	Groundskeepers and gardeners, except farm (486):			
	(Repeat SEX By RACE).....	94279	4585.....	291,1,1
	Animal caretakers, except farm (487):			
	(Repeat SEX By RACE).....	94369	4675.....	292,1,1
	Graders and sorters, agricultural products (488):			
	(Repeat SEX By RACE).....	94459	4765.....	293,1,1
	Inspectors, agricultural products (489-493):			
	(Repeat SEX By RACE).....	94549	4855.....	294,1,1
	Supervisors, forestry and logging workers (494):			
	(Repeat SEX By RACE).....	94639	4945.....	295,1,1
	Forestry workers, except logging (495):			
	(Repeat SEX By RACE).....	94729	5035.....	296,1,1
	Timber cutting and logging occupations (496):			
	(Repeat SEX By RACE).....	94819	5125.....	297,1,1
	Captains and other officers, fishing vessels (497):			
	(Repeat SEX By RACE).....	94909	5215.....	298,1,1
	Fishers (498):			
	(Repeat SEX By RACE).....	94999	5305.....	299,1,1
	Hunters and trappers (499-502):			
	(Repeat SEX By RACE).....	95089	5395.....	300,1,1
	Supervisors, mechanics and repairers (503-504):			
	(Repeat SEX By RACE).....	95179	5485.....	301,1,1
	Automobile mechanics, except apprentices (505):			
	(Repeat SEX By RACE).....	95269	5575.....	302,1,1
	Automobile mechanic apprentices (506):			
	(Repeat SEX By RACE).....	95359	5665.....	303,1,1
	Bus, truck, and stationary engine mechanics (507):			
	(Repeat SEX By RACE).....	95449	5755.....	304,1,1
	Aircraft engine mechanics (508):			
	(Repeat SEX By RACE).....	95539	5845.....	305,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Small engine repairers (509-513):			
	(Repeat SEX By RACE)	95629.....	5935	306,1,1
	Automobile body and related repairers (514):			
	(Repeat SEX By RACE)	95719.....	6025	307,1,1
	Aircraft mechanics, except engine (515):			
	(Repeat SEX By RACE)	95809.....	6115	308,1,1
	Heavy equipment mechanics (516):			
	(Repeat SEX By RACE)	95899.....	6205	309,1,1
	Farm equipment mechanics (517):			
	(Repeat SEX By RACE)	95989.....	6295	310,1,1
	Industrial machinery repairers (518):			
	(Repeat SEX By RACE)	96079.....	6385	311,1,1
	Machinery maintenance occupations (519-522):			
	(Repeat SEX By RACE)	96169.....	6475	312,1,1
	Electronic repairers, communications and industrial equipment (523-524):			
	(Repeat SEX By RACE)	96259.....	6565	313,1,1
	Data processing equipment repairers (525):			
	(Repeat SEX By RACE)	96349.....	6655	314,1,1
	Household appliance and power tool repairers (526):			
	(Repeat SEX By RACE)	96439.....	6745	315,1,1
	Telephone line installers and repairers (527-528):			
	(Repeat SEX By RACE)	96529.....	6835	316,1,1
	Telephone installers and repairers (529-532):			
	(Repeat SEX By RACE)	96619.....	6925	317,1,1
	Miscellaneous electrical and electronic equipment repairers (533):			
	(Repeat SEX By RACE)	96709.....	7015	318,1,1
	Heating, air conditioning, and refrigeration mechanics (534):			
	(Repeat SEX By RACE)	96799.....	7105	319,1,1
	Camera, watch, and musical instrument repairers (535):			
	(Repeat SEX By RACE)	96889.....	7195	320,1,1
	Locksmiths and safe repairers (536-537):			
	(Repeat SEX By RACE)	96979.....	7285	321,1,1
	Office machine repairers (538):			
	(Repeat SEX By RACE)	97069.....	7375	322,1,1
	Mechanical controls and valve repairers (539-542):			
	(Repeat SEX By RACE)	97159.....	7465	323,1,1
	Elevator installers and repairers (543):			
	(Repeat SEX By RACE)	97249.....	7555	324,1,1
	Millwrights (544-546):			
	(Repeat SEX By RACE)	97339.....	7645	325,1,1
	Specified mechanics and repairers, n.e.c. (547-548):			
	(Repeat SEX By RACE)	97429.....	7735	326,1,1
	Not specified mechanics and repairers (549-552):			
	(Repeat SEX By RACE)	97519.....	7825	327,1,1
	Supervisors, brickmasons, stonemasons, and tile setters (553):			
	(Repeat SEX By RACE)	97609.....	7915	328,1,1
	Supervisors, carpenters and related workers (554):			
	(Repeat SEX By RACE)	97699.....	8005	329,1,1
	Supervisors, electricians and power transmission installers (555):			
	(Repeat SEX By RACE)	97789.....	8095	330,1,1
	Filler	97843.....	8149	
	End of Segment			
	Supervisors, electricians and power transmission installers (555):			
	(Repeat SEX By RACE)—Con.	98149.....	301	330,2,2

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Supervisors, painters, paperhangers, and plasterers (556):			
	(Repeat SEX By RACE).....	98185	337	331,1,1
	Supervisors, plumbers, pipefitters, and steamfitters (557):			
	(Repeat SEX By RACE).....	98275	427	332,1,1
	Supervisors, construction, n.e.c. (558-562):			
	(Repeat SEX By RACE).....	98365	517	333,1,1
	Brickmasons and stonemasons, except apprentices (563):			
	(Repeat SEX By RACE).....	98455	607	334,1,1
	Brickmason and stonemason apprentices (564):			
	(Repeat SEX By RACE).....	98545	697	335,1,1
	Tile setters, hard and soft (565):			
	(Repeat SEX By RACE).....	98635	787	336,1,1
	Carpet installers (566):			
	(Repeat SEX By RACE).....	98725	877	337,1,1
	Carpenters, except apprentices (567-568):			
	(Repeat SEX By RACE).....	98815	967	338,1,1
	Carpenter apprentices (569-572):			
	(Repeat SEX By RACE).....	98905	1057	339,1,1
	Drywall installers (573-574):			
	(Repeat SEX By RACE).....	98995	1147	340,1,1
	Electricians, except apprentices (575):			
	(Repeat SEX By RACE).....	99085	1237	341,1,1
	Electrician apprentices (576):			
	(Repeat SEX By RACE).....	99175	1327	342,1,1
	Electrical power installers and repairers (577-578):			
	(Repeat SEX By RACE).....	99265	1417	343,1,1
	Painters, construction and maintenance (579-582):			
	(Repeat SEX By RACE).....	99355	1507	344,1,1
	Paperhangers (583):			
	(Repeat SEX By RACE).....	99445	1597	345,1,1
	Plasterers (584):			
	(Repeat SEX By RACE).....	99535	1687	346,1,1
	Plumbers, pipefitters, and steamfitters, except apprentices (585-586):			
	(Repeat SEX By RACE).....	99625	1777	347,1,1
	Plumber, pipefitter, and steamfitter apprentices (587):			
	(Repeat SEX By RACE).....	99715	1867	348,1,1
	Concrete and terrazzo finishers (588):			
	(Repeat SEX By RACE).....	99805	1957	349,1,1
	Glaziers (589-592):			
	(Repeat SEX By RACE).....	99895	2047	350,1,1
	Insulation workers (593):			
	(Repeat SEX By RACE).....	99985	2137	351,1,1
	Paving, surfacing, and tamping equipment operators (594):			
	(Repeat SEX By RACE).....	100075	2227	352,1,1
	Roofers (595):			
	(Repeat SEX By RACE).....	100165	2317	353,1,1
	Sheetmetal duct installers (596):			
	(Repeat SEX By RACE).....	100255	2407	354,1,1
	Structural metal workers (597):			
	(Repeat SEX By RACE).....	100345	2497	355,1,1
	Drillers, earth (598):			
	(Repeat SEX By RACE).....	100435	2587	356,1,1
	Construction trades, n.e.c. (599-612):			
	(Repeat SEX By RACE).....	100525	2677	357,1,1
	Supervisors, extractive occupations (613):			
	(Repeat SEX By RACE).....	100615	2767	358,1,1
	Drillers, oil well (614):			
	(Repeat SEX By RACE).....	100705	2857	359,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Explosives workers (615):			
	(Repeat SEX By RACE)	100795	2947	360,1,1
	Mining machine operators (616):			
	(Repeat SEX By RACE)	100885	3037	361,1,1
	Mining occupations, n.e.c. (617-627):			
	(Repeat SEX By RACE)	100975	3127	362,1,1
	Supervisors, production occupations (628-633):			
	(Repeat SEX By RACE)	101065	3217	363,1,1
	Tool and die makers, except apprentices (634):			
	(Repeat SEX By RACE)	101155	3307	364,1,1
	Tool and die maker apprentices (635):			
	(Repeat SEX By RACE)	101245	3397	365,1,1
	Precision assemblers, metal (636):			
	(Repeat SEX By RACE)	101335	3487	366,1,1
	Machinists, except apprentices (637-638):			
	(Repeat SEX By RACE)	101425	3577	367,1,1
	Machinist apprentices (639-642):			
	(Repeat SEX By RACE)	101515	3667	368,1,1
	Boilermakers (643):			
	(Repeat SEX By RACE)	101605	3757	369,1,1
	Precision grinders, filers, and tool sharpeners (644):			
	(Repeat SEX By RACE)	101695	3847	370,1,1
	Patternmakers and model makers, metal (645):			
	(Repeat SEX By RACE)	101785	3937	371,1,1
	Lay-out workers (646):			
	(Repeat SEX By RACE)	101875	4027	372,1,1
	Precious stones and metals workers (Jewelers) (647-648):			
	(Repeat SEX By RACE)	101965	4117	373,1,1
	Engravers, metal (649-652):			
	(Repeat SEX By RACE)	102055	4207	374,1,1
	Sheet metal workers, except apprentices (653):			
	(Repeat SEX By RACE)	102145	4297	375,1,1
	Sheet metal worker apprentices (654):			
	(Repeat SEX By RACE)	102235	4387	376,1,1
	Miscellaneous precision metal workers (655):			
	(Repeat SEX By RACE)	102325	4477	377,1,1
	Patternmakers and model makers, wood (656):			
	(Repeat SEX By RACE)	102415	4567	378,1,1
	Cabinet makers and bench carpenters (657):			
	(Repeat SEX By RACE)	102505	4657	379,1,1
	Furniture and wood finishers (658):			
	(Repeat SEX By RACE)	102595	4747	380,1,1
	Miscellaneous precision woodworkers (659-665):			
	(Repeat SEX By RACE)	102685	4837	381,1,1
	Dressmakers (666):			
	(Repeat SEX By RACE)	102775	4927	382,1,1
	Tailors (667):			
	(Repeat SEX By RACE)	102865	5017	383,1,1
	Upholsterers (668):			
	(Repeat SEX By RACE)	102955	5107	384,1,1
	Shoe repairers (669-673):			
	(Repeat SEX By RACE)	103045	5197	385,1,1
	Miscellaneous precision apparel and fabric workers (674):			
	(Repeat SEX By RACE)	103135	5287	386,1,1
	Hand molders and shapers, except jewelers (675):			
	(Repeat SEX By RACE)	103225	5377	387,1,1
	Patternmakers, lay-out workers, and cutters (676):			
	(Repeat SEX By RACE)	103315	5467	388,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Optical goods workers (677):			
	(Repeat SEX By RACE).....	103405	5557.....	389,1,1
	Dental laboratory and medical appliance technicians (678):			
	(Repeat SEX By RACE).....	103495	5647.....	390,1,1
	Bookbinders (679-682):			
	(Repeat SEX By RACE).....	103585	5737.....	391,1,1
	Electrical and electronic equipment assemblers (683):			
	(Repeat SEX By RACE).....	103675	5827.....	392,1,1
	Miscellaneous precision workers, n.e.c. (684-685):			
	(Repeat SEX By RACE).....	103765	5917.....	393,1,1
	Butchers and meat cutters (686):			
	(Repeat SEX By RACE).....	103855	6007.....	394,1,1
	Bakers (687):			
	(Repeat SEX By RACE).....	103945	6097.....	395,1,1
	Food batchmakers (688):			
	(Repeat SEX By RACE).....	104035	6187.....	396,1,1
	Inspectors, testers, and graders (689-692):			
	(Repeat SEX By RACE).....	104125	6277.....	397,1,1
	Adjusters and calibrators (693):			
	(Repeat SEX By RACE).....	104215	6367.....	398,1,1
	Water and sewage treatment plant operators (694):			
	(Repeat SEX By RACE).....	104305	6457.....	399,1,1
	Power plant operators (695):			
	(Repeat SEX By RACE).....	104395	6547.....	400,1,1
	Stationary engineers (696-698):			
	(Repeat SEX By RACE).....	104485	6637.....	401,1,1
	Miscellaneous plant and system operators (699-702):			
	(Repeat SEX By RACE).....	104575	6727.....	402,1,1
	Lathe and turning machine set-up operators (703):			
	(Repeat SEX By RACE).....	104665	6817.....	403,1,1
	Lathe and turning machine operators (704):			
	(Repeat SEX By RACE).....	104755	6907.....	404,1,1
	Milling and planing machine operators (705):			
	(Repeat SEX By RACE).....	104845	6997.....	405,1,1
	Punching and stamping press machine operators (706):			
	(Repeat SEX By RACE).....	104935	7087.....	406,1,1
	Rolling machine operators (707):			
	(Repeat SEX By RACE).....	105025	7177.....	407,1,1
	Drilling and boring machine operators (708):			
	(Repeat SEX By RACE).....	105115	7267.....	408,1,1
	Grinding, abrading, buffing, and polishing machine operators (709-712):			
	(Repeat SEX By RACE).....	105205	7357.....	409,1,1
	Forging machine operators (713):			
	(Repeat SEX By RACE).....	105295	7447.....	410,1,1
	Numerical control machine operators (714):			
	(Repeat SEX By RACE).....	105385	7537.....	411,1,1
	Miscellaneous metal, plastic, stone, and glass working machine operators (715-716):			
	(Repeat SEX By RACE).....	105475	7627.....	412,1,1
	Fabricating machine operators, n.e.c. (717-718):			
	(Repeat SEX By RACE).....	105565	7717.....	413,1,1
	Molding and casting machine operators (719-722):			
	(Repeat SEX By RACE).....	105655	7807.....	414,1,1
	Metal plating machine operators (723):			
	(Repeat SEX By RACE).....	105745	7897.....	415,1,1
	Heat treating equipment operators (724):			
	(Repeat SEX By RACE).....	105835	7987.....	416,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Miscellaneous metal and plastic processing machine operators (725):			
	(Repeat SEX By RACE)	105925	8077	417,1,1
	Filler	105997	8149	
	End of Segment			
	Miscellaneous metal and plastic processing machine operators (725):			
	(Repeat SEX By RACE)—Con.	106303	301	417,2,4
	Wood lathe, routing, and planing machine operators (726):			
	(Repeat SEX By RACE)	106321	319	418,1,1
	Sawing machine operators (727):			
	(Repeat SEX By RACE)	106411	409	419,1,1
	Shaping and joining machine operators (728):			
	(Repeat SEX By RACE)	106501	499	420,1,1
	Nailing and tacking machine operators (729-732):			
	(Repeat SEX By RACE)	106591	589	421,1,1
	Miscellaneous woodworking machine operators (733):			
	(Repeat SEX By RACE)	106681	679	422,1,1
	Printing press operators (734):			
	(Repeat SEX By RACE)	106771	769	423,1,1
	Photoengravers and lithographers (735):			
	(Repeat SEX By RACE)	106861	859	424,1,1
	Typesetters and compositors (736):			
	(Repeat SEX By RACE)	106951	949	425,1,1
	Miscellaneous printing machine operators (737):			
	(Repeat SEX By RACE)	107041	1039	426,1,1
	Winding and twisting machine operators (738):			
	(Repeat SEX By RACE)	107131	1129	427,1,1
	Knitting, looping, taping, and weaving machine operators (739-742):			
	(Repeat SEX By RACE)	107221	1219	428,1,1
	Textile cutting machine operators (743):			
	(Repeat SEX By RACE)	107311	1309	429,1,1
	Textile sewing machine operators (744):			
	(Repeat SEX By RACE)	107401	1399	430,1,1
	Shoe machine operators (745-746):			
	(Repeat SEX By RACE)	107491	1489	431,1,1
	Pressing machine operators (747):			
	(Repeat SEX By RACE)	107581	1579	432,1,1
	Laundering and dry cleaning machine operators (748):			
	(Repeat SEX By RACE)	107671	1669	433,1,1
	Miscellaneous textile machine operators (749-752):			
	(Repeat SEX By RACE)	107761	1759	434,1,1
	Cementing and gluing machine operators (753):			
	(Repeat SEX By RACE)	107851	1849	435,1,1
	Packaging and filling machine operators (754):			
	(Repeat SEX By RACE)	107941	1939	436,1,1
	Extruding and forming machine operators (755):			
	(Repeat SEX By RACE)	108031	2029	437,1,1
	Mixing and blending machine operators (756):			
	(Repeat SEX By RACE)	108121	2119	438,1,1
	Separating, filtering, and clarifying machine operators (757):			
	(Repeat SEX By RACE)	108211	2209	439,1,1
	Compressing and compacting machine operators (758):			
	(Repeat SEX By RACE)	108301	2299	440,1,1
	Painting and paint spraying machine operators (759-762):			
	(Repeat SEX By RACE)	108391	2389	441,1,1
	Roasting and baking machine operators, food (763):			
	(Repeat SEX By RACE)	108481	2479	442,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Washing, cleaning, and pickling machine operators (764):			
	(Repeat SEX By RACE).....	108571	2569	443,1,1
	Folding machine operators (765):			
	(Repeat SEX By RACE).....	108661	2659	444,1,1
	Furnace, kiln, and oven operators, except food (766-767):			
	(Repeat SEX By RACE).....	108751	2749	445,1,1
	Crushing and grinding machine operators (768):			
	(Repeat SEX By RACE).....	108841	2839	446,1,1
	Slicing and cutting machine operators (769-772):			
	(Repeat SEX By RACE).....	108931	2929	447,1,1
	Motion picture projectionists (773):			
	(Repeat SEX By RACE).....	109021	3019	448,1,1
	Photographic process machine operators (774-776):			
	(Repeat SEX By RACE).....	109111	3109	449,1,1
	Manufacturing, nondurable goods (777-778) (Industry codes 100-229): ²			
	(Repeat SEX By RACE).....	109201	3199	450,1,1
	Manufacturing, durable goods (777-778) (Industry codes 230-399): ²			
	(Repeat SEX By RACE).....	109291	3289	451,1,1
	Nonmanufacturing industries (777-778) (Industry codes 010-099, 400-999): ²			
	(Repeat SEX By RACE).....	109381	3379	452,1,1
	Manufacturing, nondurable goods (779-782) (Industry codes 100-229): ³			
	(Repeat SEX By RACE).....	109471	3469	453,1,1
	Manufacturing, durable goods (779-782) (Industry codes 230-399): ³			
	(Repeat SEX By RACE).....	109561	3559	454,1,1
	Nonmanufacturing industries (779-782) (Industry codes 010-099, 400-999): ³			
	(Repeat SEX By RACE).....	109651	3649	455,1,1
	Welders and cutters (783):			
	(Repeat SEX By RACE).....	109741	3739	456,1,1
	Solderers and brazers (784):			
	(Repeat SEX By RACE).....	109831	3829	457,1,1
	Assemblers (785):			
	(Repeat SEX By RACE).....	109921	3919	458,1,1
	Hand cutting and trimming occupations (786):			
	(Repeat SEX By RACE).....	110011	4009	459,1,1
	Hand molding, casting, and forming occupations (787-788):			
	(Repeat SEX By RACE).....	110101	4099	460,1,1
	Hand painting, coating, and decorating occupations (789-792):			
	(Repeat SEX By RACE).....	110191	4189	461,1,1
	Hand engraving and printing occupations (793-794):			
	(Repeat SEX By RACE).....	110281	4279	462,1,1
	Miscellaneous hand working occupations (795):			
	(Repeat SEX By RACE).....	110371	4369	463,1,1
	Production inspectors, checkers, and examiners (796):			
	(Repeat SEX By RACE).....	110461	4459	464,1,1
	Production testers (797):			
	(Repeat SEX By RACE).....	110551	4549	465,1,1
	Production samplers and weighers (798):			
	(Repeat SEX By RACE).....	110641	4639	466,1,1
	Graders and sorters, except agricultural (799-802):			
	(Repeat SEX By RACE).....	110731	4729	467,1,1

²Industry tally of occupation "Miscellaneous machine operators, n.e.c."

³Industry tally of occupation "Machine operators, not specified."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Supervisors, motor vehicle operators (803):			
	(Repeat SEX By RACE)	110821	4819	468,1,1
	Truck drivers (804-805):			
	(Repeat SEX By RACE)	110911	4909	469,1,1
	Driver-sales workers (806-807):			
	(Repeat SEX By RACE)	111001	4999	470,1,1
	Bus drivers (808):			
	(Repeat SEX By RACE)	111091	5089	471,1,1
	Taxicab drivers and chauffeurs (809-812):			
	(Repeat SEX By RACE)	111181	5179	472,1,1
	Parking lot attendants (813):			
	(Repeat SEX By RACE)	111271	5269	473,1,1
	Motor transportation occupations, n.e.c. (814-822):			
	(Repeat SEX By RACE)	111361	5359	474,1,1
	Railroad conductors and yardmasters (823):			
	(Repeat SEX By RACE)	111451	5449	475,1,1
	Locomotive operating occupations (824):			
	(Repeat SEX By RACE)	111541	5539	476,1,1
	Railroad brake, signal, and switch operators (825):			
	(Repeat SEX By RACE)	111631	5629	477,1,1
	Rail vehicle operators, n.e.c. (826-827):			
	(Repeat SEX By RACE)	111721	5719	478,1,1
	Ship captains and mates, except fishing boats (828):			
	(Repeat SEX By RACE)	111811	5809	479,1,1
	Sailors and deckhands (829-832):			
	(Repeat SEX By RACE)	111901	5899	480,1,1
	Marine engineers (833):			
	(Repeat SEX By RACE)	111991	5989	481,1,1
	Bridge, lock, and lighthouse tenders (834-842):			
	(Repeat SEX By RACE)	112081	6079	482,1,1
	Supervisors, material moving equipment operators (843):			
	(Repeat SEX By RACE)	112171	6169	483,1,1
	Operating engineers (844):			
	(Repeat SEX By RACE)	112261	6259	484,1,1
	Longshore equipment operators (845-847):			
	(Repeat SEX By RACE)	112351	6349	485,1,1
	Hoist and winch operators (848):			
	(Repeat SEX By RACE)	112441	6439	486,1,1
	Crane and tower operators (849-852):			
	(Repeat SEX By RACE)	112531	6529	487,1,1
	Excavating and loading machine operators (853-854):			
	(Repeat SEX By RACE)	112621	6619	488,1,1
	Grader, dozer, and scraper operators (855):			
	(Repeat SEX By RACE)	112711	6709	489,1,1
	Industrial truck and tractor equipment operators (856-858):			
	(Repeat SEX By RACE)	112801	6799	490,1,1
	Miscellaneous material moving equipment operators (859-863):			
	(Repeat SEX By RACE)	112891	6889	491,1,1
	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (864):			
	(Repeat SEX By RACE)	112981	6979	492,1,1
	Helpers, mechanics, and repairers (865):			
	(Repeat SEX By RACE)	113071	7069	493,1,1
	Helpers, construction trades (866):			
	(Repeat SEX By RACE)	113161	7159	494,1,1
	Helpers, surveyor (867):			
	(Repeat SEX By RACE)	113251	7249	495,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P3.	DETAILED OCCUPATION(512) BY SEX(2) BY RACE(5) [5120]—Con.			
	Helpers, extractive occupations (868):			
	(Repeat SEX By RACE).....	113341	7339.....	496,1,1
	Construction laborers (869-873):			
	(Repeat SEX By RACE).....	113431	7429.....	497,1,1
	Production helpers (874):			
	(Repeat SEX By RACE).....	113521	7519.....	498,1,1
	Garbage collectors (875):			
	(Repeat SEX By RACE).....	113611	7609.....	499,1,1
	Stevedores (876):			
	(Repeat SEX By RACE).....	113701	7699.....	500,1,1
	Stock handlers and baggers (877):			
	(Repeat SEX By RACE).....	113791	7789.....	501,1,1
	Machine feeders and offbearers (878-882):			
	(Repeat SEX By RACE).....	113881	7879.....	502,1,1
	Freight, stock, and material handlers, n.e.c. (883-884):			
	(Repeat SEX By RACE).....	113971	7969.....	503,1,1
	Garage and service station related occupations (885-886):			
	(Repeat SEX By RACE).....	114061	8059.....	504,1,1
	Filler.....	114151	8149	
	End of Segment			
	Vehicle washers and equipment cleaners (887):			
	(Repeat SEX By RACE).....	114457	301.....	505,1,1
	Hand packers and packagers (888):			
	(Repeat SEX By RACE).....	114547	391.....	506,1,1
	Manufacturing, nondurable goods (889-902) (Industry codes 100-229): ⁴			
	(Repeat SEX By RACE).....	114637	481.....	507,1,1
	Manufacturing, durable goods (889-902) (Industry codes 230-399): ⁴			
	(Repeat SEX By RACE).....	114727	571.....	508,1,1
	Transportation, communications, and other public utilities (889-902) (Industry codes 400-499): ⁴			
	(Repeat SEX By RACE).....	114817	661.....	509,1,1
	Wholesale and retail trade (889-902) (Industry codes 500-699): ⁴			
	(Repeat SEX By RACE).....	114907	751.....	510,1,1
	All other industries (889-902) (Industry codes 010-099, 700-999): ⁴			
	(Repeat SEX By RACE).....	114997	841.....	511,1,1
	Unemployed, no recent civilian work experience (000, 903-999):			
	(Repeat SEX By RACE).....	115087	931.....	512,1,1
P4.	EDUCATIONAL ATTAINMENT(5) BY SEX(2) [10]			
	<i>Universe: Civilian labor force</i>			
	Not high school graduate:			
	Male.....	115177	1021.....	1,1
	Female.....	115186	1030.....	1,2
	High school graduate (includes equivalency):			
	(Repeat SEX).....	115195	1039.....	2,1
	Some college or associate degree:			
	(Repeat SEX).....	115213	1057.....	3,1
	Bachelor's degree:			
	(Repeat SEX).....	115231	1075.....	4,1
	Graduate or professional degree:			
	(Repeat SEX).....	115249	1093.....	5,1

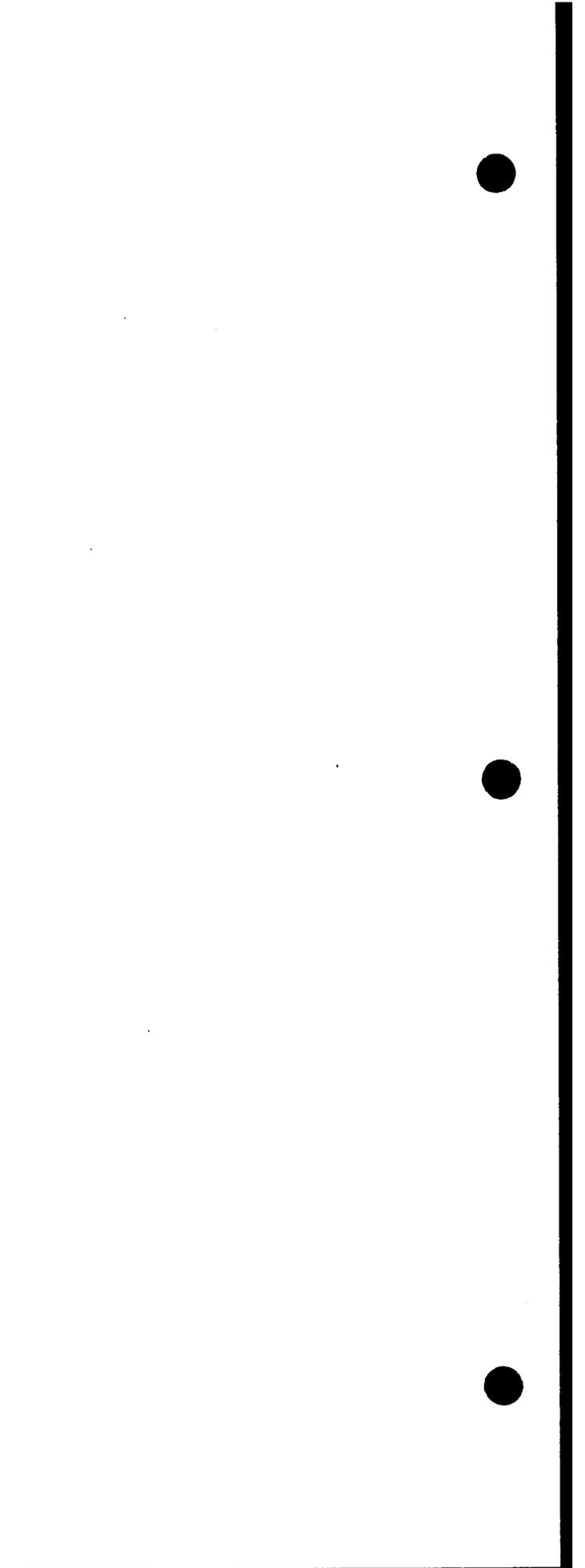
⁴Industry tally of occupation "Laborers, except construction."

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P5.	EDUCATIONAL ATTAINMENT(5) BY AGE(7) BY SEX(2) BY HISPANIC ORIGIN AND RACE(6) [420] <i>Universe: Civilian labor force</i> Not high school graduate:			
	16 to 19 years:			
	Male:			
	Hispanic origin.....	115267.....	1111.....	1,1,1,1
	White, not of Hispanic origin.....	115276.....	1120.....	1,1,1,2
	Black, not of Hispanic origin.....	115285.....	1129.....	1,1,1,3
	American Indian, Eskimo, or Aleut, not of Hispanic origin	115294.....	1138.....	1,1,1,4
	Asian or Pacific Islander, not of Hispanic origin.....	115303.....	1147.....	1,1,1,5
	Other race, not of Hispanic origin.....	115312.....	1156.....	1,1,1,6
	Female:			
	(Repeat HISPANIC ORIGIN AND RACE).....	115321.....	1165.....	1,1,2,1
	20 to 24 years:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115375.....	1219.....	1,2,1,1
	25 to 29 years:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115483.....	1327.....	1,3,1,1
	30 to 34 years:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115591.....	1435.....	1,4,1,1
	35 to 39 years:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115699.....	1543.....	1,5,1,1
	40 to 69 years:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115807.....	1651.....	1,6,1,1
	70 years and over:			
	(Repeat SEX By HISPANIC ORIGIN AND RACE).....	115915.....	1759.....	1,7,1,1
	High school graduate (includes equivalency):			
	(Repeat AGE By SEX By HISPANIC ORIGIN AND RACE).....	116023.....	1867.....	2,1,1,1
	Some college or associate degree:			
	(Repeat AGE By SEX By HISPANIC ORIGIN AND RACE).....	116779.....	2623.....	3,1,1,1
	Bachelor's degree:			
	(Repeat AGE By SEX By HISPANIC ORIGIN AND RACE).....	117535.....	3379.....	4,1,1,1
	Graduate or professional degree:			
	(Repeat AGE By SEX By HISPANIC ORIGIN AND RACE).....	118291.....	4135.....	5,1,1,1
P6.	EDUCATIONAL ATTAINMENT(5) BY AGE(7) BY SEX(2) BY RACE(5) [350] <i>Universe: Civilian labor force</i> Not high school graduate:			
	16 to 19 years:			
	Male:			
	White.....	119047.....	4891.....	1,1,1,1
	Black.....	119056.....	4900.....	1,1,1,2
	American Indian, Eskimo, or Aleut.....	119065.....	4909.....	1,1,1,3
	Asian or Pacific Islander.....	119074.....	4918.....	1,1,1,4
	Other race.....	119083.....	4927.....	1,1,1,5
	Female:			
	(Repeat RACE).....	119092.....	4936.....	1,1,2,1
	20 to 24 years:			
	(Repeat SEX By RACE).....	119137.....	4981.....	1,2,1,1
	25 to 29 years:			
	(Repeat SEX By RACE).....	119227.....	5071.....	1,3,1,1
	30 to 34 years:			
	(Repeat SEX By RACE).....	119317.....	5161.....	1,4,1,1
	35 to 39 years:			
	(Repeat SEX By RACE).....	119407.....	5251.....	1,5,1,1
	40 to 69 years:			
	(Repeat SEX By RACE).....	119497.....	5341.....	1,6,1,1

TABLE (MATRIX) SECTION—Con.

Table (matrix) number	Table (matrix)	Starting position	Starting position within segment	Table (matrix) coordinates
P6.	EDUCATIONAL ATTAINMENT(5) BY AGE(7) BY SEX(2) BY RACE(5) [350]—Con. 70 years and over:			
	(Repeat SEX By RACE).....	119587	5431	1,7,1,1
	High school graduate (includes equivalency): (Repeat AGE By SEX By RACE).....	119677	5521	2,1,1,1
	Some college or associate degree: (Repeat AGE By SEX By RACE).....	120307	6151	3,1,1,1
	Bachelor's degree: (Repeat AGE By SEX By RACE).....	120937	6781	4,1,1,1
	Graduate or professional degree: (Repeat AGE By SEX By RACE).....	121567	7411	5,1,1,1
	Filler.....	122197	8041	
	End of Record			



APPENDIX A.

Area Classifications

CONTENTS

Boundary Changes	A-1
Census Code (See <i>Geographic Code</i>)	
Census Designated Place (CDP) (See <i>Place</i>)	
Census Geographic Code (See <i>Geographic Code</i>)	
Census Region and Census Division	A-1
Census Subdistrict (See <i>Island Subdivision</i>)	
County (See <i>Island</i>)	
County Subdivision (See <i>Island Subdivision</i>)	
Federal Information Processing Standards (FIPS) Code (See <i>Geographic Code</i>)	
Geographic Code	A-1
Geographic Presentation	A-2
Hierarchical Presentation (See <i>Geographic Presentation</i>)	
Incorporated Place (See <i>Place</i>)	
Inventory Presentation (See <i>Geographic Presentation</i>)	
Island	A-2
Island Subdivision	A-2
Minor Civil Division (See <i>Island Subdivision</i>)	
Outlying Areas of the United States (See <i>State, see United States</i>)	
Place	A-2
State	A-3
TIGER	A-3
Town (See <i>Place</i>)	
United States	A-3
United States Postal Service (USPS) Code (See <i>Geographic Code</i>)	
Virgin Islands (See <i>State</i>)	

These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products for the Virgin Islands of the United States (Virgin Islands). 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.

BOUNDARY CHANGES

The boundaries of some places may have changed between those reported for the 1980 census and January 1, 1990. The historical counts shown for such places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census.

CENSUS REGION AND CENSUS DIVISION

For statistical purposes, the United States is divided into four census regions, which are further subdivided into nine divisions. The Virgin Islands is not assigned to any region or division.

AREA CLASSIFICATIONS

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 also is a Federal Information Processing Standards (FIPS) code for the same geographic entity. A code that is not identified as either "census" or "FIPS" usually is 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 island and congressional district.

Census Code

Census codes are assigned for a variety of geographic entities, including the Virgin Islands, island subdivision, and place. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme* and 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 congressional district, county (including statistically equivalent entities such as the islands in the Virgin Islands), census subdistrict, place, and State (including statistically equivalent entities such as the Virgin Islands). The structure, format, and meaning of FIPS codes used in the census are shown in the 1990 census *Geographic Identification Code Scheme* and 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

The United States Postal Service (USPS) code for the Virgin Islands is used in all 1990 census data products. The

code is a two-character alphabetic abbreviation: VI. The code is the same as the FIPS two-character alphabetic abbreviation.

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 for the Virgin Islands is the "standard census geographic hierarchy": block, within block group, within block numbering area, within place, within census subdistrict, within island, within the Virgin Islands. Graphically, this is shown as:

```
Virgin Islands of the United States
  Island
    Census subdistrict
      Place (or part)
        Block numbering area (or part)
          Block group (or part)
            Block
```

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, block numbering area, or block group. An example of a series of inventory presentations is: Virgin Islands, followed by the three islands, followed by all the places in the Virgin Islands. Graphically, this is shown as:

```
Virgin Islands of the United States
  Island "A"
  Island "B"
  Island "C"
  Place "X"
  Place "Y"
  Place "Z"
```

ISLAND

The three major islands—St. Croix, St. John, and St. Thomas—serve as the primary divisions of the Virgin Islands. The Census Bureau, for statistical purposes, treats

each island as the equivalent of a county in the United States. Each island is assigned a three-digit FIPS code, in alphabetical order within the Virgin Islands.

ISLAND SUBDIVISION

"Census subdistricts" are the primary subdivisions of the Islands for the reporting of decennial census data. The subdistricts were established by law by the Virgin Islands government in 1979 and, therefore, the Census Bureau treats them as "minor civil divisions" of the islands. Each census subdistrict is assigned a three-digit census code in alphabetical order within the island and a five-digit FIPS code in alphabetical order within the Virgin Islands.

PLACE

For the reporting of decennial census data, places in the Virgin Islands consist of census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within the Virgin Islands. Each place also is assigned a five-digit FIPS code that is unique within the Virgin Islands. Both the census and FIPS codes are assigned based on alphabetical order within the Virgin Islands.

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.

Virgin Islands officials, following Census Bureau guidelines, first identified and delineated boundaries for CDP's for the 1980 census. In the 1990 census, the name of each such place is followed by "CDP"; in the 1980 census, "(CDP)" was used.

To qualify as a CDP for the 1990 census, a community in the Virgin Islands must have 300 or more persons. The 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 required minimum.

Incorporated Place

The Census Bureau treats the three towns in the Virgin Islands as incorporated places because they have legally defined boundaries. However, the towns do not have their own elected officials who can levy taxes and provide municipal services.

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 Census Bureau treats the outlying areas as the equivalents of States for presenting 1990 census data. The outlying areas include American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, the Republic of Palau, Puerto Rico, and the Virgin Islands of the United States.

Each State and equivalent entity 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 entity also is assigned a two-digit census code. The first digit of the code is the code for the respective division except for Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific, which are assigned "0" as the first digit because they are not part of any division. Each State and equivalent area also is assigned the two-letter FIPS/United States Postal Service (USPS) code.

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 (see "State") as statistical equivalents of States for the 1990 census.



APPENDIX B.

Definitions of Subject Characteristics

CONTENTS

SUBJECT CHARACTERISTICS	B-1
Actual Hours Worked Last Week (See <i>Employment Status</i>)	
Age	B-1
Civilian Labor Force (See <i>Employment Status</i>)	
Class of Worker (See <i>Industry, Occupation, and Class of Worker</i>)	
Educational Attainment	B-1
Employment Status	B-2
Hispanic Origin	B-4
Industry, Occupation, and Class of Worker	B-4
Occupation (See <i>Industry, Occupation, and Class of Worker</i>)	
Race	B-7
Reference Week	B-8
Sex	B-8
Spanish Origin (See <i>Hispanic Origin</i>)	
Worker (See <i>Employment Status, see Industry, Occupation, and Class of Worker</i>)	

SUBJECT 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 completed years as of April 1, 1990. The age response in question 5a was normally used 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 and the allocation procedures to attempt to minimize this problem in 1990.

Review of detailed 1990 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 completed 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 1950, the age of a person was assigned when it was not reported. 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.)

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12. 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.")

Interviewers were instructed 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 Hispanic 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—Educational attainment questions in terms of years of school completed were included on the census from 1950 to 1980. In 1950, a single question was asked on highest grade of school completed. In the censuses of 1960 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 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 all 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 may not be comparable with published figures on unemployment compensation claims. For example, figures on unemployment compensation claims may 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 may 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.

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—"Dominican (Dominican Republic)," "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 they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on.

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 Virgin Islands of the United States (Virgin Islands). 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.

Comparability—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. This question was asked in the Virgin Islands for the first time in 1980. For 1990, the word "descent" was deleted from the 1980 wording. In addition, the category "Dominican (Dominican Republic)" was added to the responses of "Puerto Rican," "Cuban," and "Other Spanish/Hispanic origin." Finally, the 1990 question allowed those who reported as "Other Spanish/Hispanic" to write in their specific Hispanic origin group.

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 all

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.

All cases were coded by a clerical staff in the Census Bureau's Jacksonville, FL processing office. 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 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 236 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 501 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 special 1990 tape files on occupation. This product contains all 501 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 sub-categories: "For profit," "Not for profit," and "Own business incorporated."

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

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 socio-cultural 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.

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

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

Asian or Pacific Islander—Includes persons who indicated their race as "Asian or Pacific Islander" or reported entries such as Chinese, Filipino, Japanese, Hawaiian, Samoan, or Guamanian.

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.

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.

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

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 1990 census, respondents sometimes did not fill in a check box or filled the "Other race" check box and wrote in a response, such as West Indian, in this write-in space for "Other race." During the coding and editing process, these responses were assigned to the appropriate racial designation. Also, some Hispanic origin persons did not mark a race category, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process.

Comparability—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups. In the 1980 census, there were no separate categories for persons identifying as "Asian or Pacific Islander" or "Indian (Amer.), Eskimo, or Aleut." Persons who identified as such were reported in the "Other" category. In the 1990 census, there were separate categories for "Asian or Pacific Islander" and "Indian (Amer.), Eskimo, or Aleut," as well as two write-in spaces allowing "Asian or Pacific Islander" persons or "Other

race persons to identify specific race groups. (In 1980 there was just one write-in space for persons identifying as "Other.") Persons entering a write-in response had their individual entries coded and classified to the appropriate race regardless of whether they filled a check box. This allowed for the accurate tabulation and reporting of persons identifying as "Asian or Pacific Islander" or "Indian (Amer.), Eskimo, or Aleut" along with those reporting as "Black or Negro" or "White" in the 1990 census.

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 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.

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 has been asked of the total population in every census.

APPENDIX C.

Accuracy of the Data

CONTENTS

Confidentiality of the Data	C-1
Editing of Unacceptable Data	C-1
Sources of Error	C-2

CONFIDENTIALITY OF THE DATA

To maintain confidentiality as required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to ensure that published data do not disclose information about specific individuals, households, and housing units. As a result, a small amount of uncertainty is introduced into some of the census characteristics to prevent identification of specific individuals, households, or housing units. The confidentiality edit is controlled so that the counts of total persons, totals by race, Hispanic origin, and persons age 18 years and over are *not affected*. In addition, total counts for housing units by tenure are not affected by this edit.

The confidentiality edit for the Virgin Islands of the United States (Virgin Islands) was conducted in basically the same way for each of the two types of data (stateside 100-percent equivalent data and stateside sample equivalent data) that were collected from everyone in the Virgin Islands. In the United States census, certain information (referred to as stateside 100-percent data) was collected from everyone, and some additional information (referred to as stateside sample data) was collected from about a 1-in-6 sample of the population. In the Virgin Islands, all of the census information was collected on a 100-percent basis. The Virgin Islands basic (stateside 100-percent equivalent) data corresponds to the United States census 100-percent data and includes age, sex, race, Hispanic origin, relationship, marital status, and certain questions concerning the housing unit (e.g., value, rent, and number of rooms). The Virgin Islands detailed (stateside sample equivalent) data corresponds to the United States census sample data and includes questions on such subjects as income, water source, language usage, and journey to work.

The confidentiality edit for the Virgin Islands was conducted by selecting a sample of census households from the internal census files and blanking and imputing a random subset of either its 100-percent equivalent data or its sample equivalent data from other households that have identical characteristics on a set of selected key variables, but are in different geographic locations within the Virgin Islands. To provide more

protection for "small areas," a higher sampling rate was used for these areas. The net result of this procedure is that the data user's ability to obtain census data, particularly for small areas and subpopulation groups, has been enhanced significantly while maintaining confidentiality of individual responses.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as clearly and accurately as possible. To meet this objective, questionnaires were reviewed and edited during field data collection operations by crew leaders for consistency, completeness, and acceptability. Questionnaires were also reviewed by census clerks in the district offices for omissions, certain inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable in certain quantities and/ or in conjunction with other data omissions.

As a result of this review operation, a telephone or personal visit follow-up was made to obtain missing information. Potential coverage errors were included in the followup, as well as questionnaires with omissions or inconsistencies beyond the completeness and quality tolerances specified in the review procedures.

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. Allocations, or computer assignments of acceptable data 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 data 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. For example, 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 for the person(s) and/or housing unit without characteristic data. The assignment of the full set of housing characteristics occurred when no housing information was available. If the housing unit was determined to be occupied, the housing and person characteristics as well as the number of persons 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.

SOURCES OF ERROR

In any large-scale statistical operation, such as the 1990 decennial census, human- and machine-related errors occur. These errors are commonly referred to as nonsampling errors. Such errors include not enumerating every household or every person in the population, not obtaining all required information from the respondents, obtaining incorrect or inconsistent information, and recording information incorrectly. In addition, errors can occur during the field review of the enumerators' work, during clerical handling of the census questionnaires, or during the electronic processing of the questionnaires.

To reduce various types of nonsampling errors, a number of techniques were implemented during the

planning, data collection, and data processing activities. Quality assurance methods were used throughout the data collection and processing phases of the census to improve the quality of the data.

Several coverage improvement programs were implemented during the development of the census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 decennial census and results from the 1990 United States decennial census testing cycle.

A quality assurance program, designed to improve coverage, began with an advance listing of addresses. Advance listers collected addresses and recorded map spots for six housing units in each of two sample blocks in every enumerator assignment area or address register area. The quality assurance check consisted of matching the advance listed address and map spots to the enumerator's complete address register area listing. If the number of nonmatches exceeded a predetermined level, then a recheck of the address register area was required.

Telephone and personal visit followups also contributed to improve coverage. The governor of the Virgin Islands established a committee which reviewed the census tallies, and census enumerators conducted additional recanvassing. Computer and clerical edits were aimed at improving the quality and consistency of the data.

APPENDIX D.

Collection and Processing Procedures

CONTENTS

Data Collection Procedures	D-2
Enumeration and Residence Rules	D-1
Processing Procedures	D-2

ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first decennial census of the Virgin Islands of the United States (Virgin Islands) in 1930, 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 Virgin Islands was to be included in the census, without regard to the person's legal status or citizenship. As in previous censuses, persons in the Virgin Islands specifically excluded from the census were foreign travelers who had not established a residence.

Persons with a usual residence outside the Virgin Islands were not enumerated in the 1990 census of the Virgin Islands. On the other hand, residents of the Virgin Islands temporarily abroad were to be enumerated at their usual residence in the Virgin Islands.

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 Virgin Islands or abroad, 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 U.S. Armed Forces—Members of the U.S. 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 the U.S. Armed Forces personnel were counted where they were living on Census Day (for example, with the U.S. Armed Forces person or at another location).

Each United States Navy ship not deployed to the 6th or 7th Fleet was attributed to the geographic area that the Department of the Navy designated as its homeport. If the homeport included more than one geographic area, ships berthed there on Census Day were assigned by the Bureau of the Census to the geographic area 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 geographic area named on the Department of the Navy's homeport list. These rules also apply to U.S. Coast Guard vessels.

Personnel assigned to each 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.

Persons on U.S. Maritime Ships—Persons aboard U.S. 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 Virgin Islands, the United States, Puerto Rico, or the Pacific Outlying Areas.

2. The port of departure if the ship was at sea, provided the port was in the Virgin Islands, the United States, Puerto Rico, or the Pacific Outlying Areas.
3. The port of destination in the Virgin Islands, the United States, Puerto Rico, or the Pacific Outlying Areas, if the port of departure of a ship at sea was a foreign port.
4. The U.S. overseas population if the ship was docked at a foreign port or at sea between foreign ports.

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 jails; 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—In the Virgin Islands, Hurricane Hugo 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 rather than the temporary quarters where they were staying.

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 of the Virgin Islands was conducted using modified list/ enumerate procedures (formerly called conventional or door-to-door enumeration).

Enumeration of Housing Units

Beginning in early May 1990, enumerators visited and listed every housing unit in their assigned areas and conducted a personal interview, asking the questions as worded on the census questionnaire and recording the answers. A single questionnaire contained all questions asked of every person at every housing unit. This questionnaire contained both basic (stateside 100-percent equivalent) and detailed (stateside sample equivalent) population and housing questions. Only housing information was obtained for vacant housing units.

Field Followup

Followup enumerators visited each address for which questionnaires were missing to obtain a completed questionnaire. If a followup enumerator determined that the unit was vacant on Census Day, regardless of the present occupancy status, the enumerator obtained information about the unit from a neighbor or other knowledgeable source and filled out a questionnaire for that unit, completing specified items in the questionnaire for vacant units.

Coverage and Edit-Failure Followup—The enumerators conducted an initial check of the questionnaires for completeness and consistency. The census office staff performed additional coverage and edit checks. Those households for which questionnaires did not meet specific quality standards because of incomplete or inconsistent information were contacted by telephone or by personal visit to obtain the missing information or rectify the inconsistencies.

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) included the same population questions as the regular census questionnaire but did not include any housing questions.

PROCESSING PROCEDURES

The Virgin Islands questionnaires were processed in a section of the Census Bureau's Jacksonville, Florida Processing Office, specifically set up for the processing of keyable documents. The information supplied to the enumerator by the respondent was recorded by marking the answers in the appropriate answer boxes and, in some cases, entering a write-in response.

The data processing was performed in several stages. All questionnaires passed through a check-in procedure upon their arrival at the processing office. Selected written entries on the questionnaire were coded clerically. The coded information included written entries for industry and occupation, migration, place of birth, place of work, race, Hispanic origin, ancestry, language, and relationship. After all coding operations were completed, the questionnaires (including Individual Census Reports) were keyed and the resulting file was sent to the Census Bureau headquarters for editing and tabulating operations.

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.

Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- 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 with no other home who are staying here on April 1

Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

1 a. Please give me the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE is staying here temporarily and usually lives somewhere else, give me the name of each person. Begin with the household member in whose name the home is owned, being bought, or rented. If there is no such person, start with any adult household member. Print last name, first name, and middle initial for each person.

LAST	FIRST	INITIAL	LAST	FIRST	INITIAL
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

1 b. If EVERYONE listed above is staying here only temporarily and usually lives somewhere else, mark (X) this box **and ask — Where do these people usually live?**

DO NOT PRINT THE ADDRESS LISTED IN ITEM G ON THE FRONT COVER.

House number	Street or road/Rural route and box number	Apartment number
City	State/Island	ZIP Code
County or foreign country	Names of nearest intersecting streets or roads	

	PERSON 1		PERSON 2	
	Last name		Last name	
	First name	Middle initial	First name	Middle initial
<p><i>Please fill one column for each person listed in Question 1a on page 1.</i></p> <p>2. Do not ask for Person 1. How is . . . related to (Person 1)? Mark (X) ONE box for each person. If Other relative of person in column 1, mark (X) the box and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.</p>	<p>START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.</p> <p>If there is no such person, start in this column with any adult household member.</p>		<p>If a RELATIVE of Person 1:</p> <p>1 <input type="checkbox"/> Husband/wife 4 <input type="checkbox"/> Brother/sister 2 <input type="checkbox"/> Natural-born or adopted son/daughter 5 <input type="checkbox"/> Father/mother 3 <input type="checkbox"/> Stepson/stepdaughter 6 <input type="checkbox"/> Grandchild 7 <input type="checkbox"/> Other relative</p> <p>----- [] [] []</p> <p>If NOT RELATED to Person 1:</p> <p>8 <input type="checkbox"/> Roomer, boarder, or foster child 10 <input type="checkbox"/> Unmarried partner 9 <input type="checkbox"/> Housemate, roommate 11 <input type="checkbox"/> Other nonrelative</p>	
<p>3. Is . . . male or female? Mark (X) ONE box for each person.</p>	1 <input type="checkbox"/> Male	2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male	2 <input type="checkbox"/> Female
<p>4. What is . . . 's race? For example, Black, White, Asian or Pacific Islander, American Indian, Eskimo, Aleut. Mark (X) ONE box for the race that the person considers himself/herself to be. If response is "Asian or Pacific Islander," ask — Which Asian or Pacific Islander group does . . . consider (himself/herself) to be? If response is "Other race," ask — Which group does . . . consider (himself/herself) to be?</p>	<p>1 <input type="checkbox"/> Black or Negro 2 <input type="checkbox"/> White 3 <input type="checkbox"/> Asian or Pacific Islander (Print one group, for example: Chinese, Filipino, Hawaiian, Japanese, Laotian, Asian Indian, Korean, Samoan, Vietnamese, and so on.)</p> <p>----- [] [] []</p> <p>4 <input type="checkbox"/> Indian (Amer.), Eskimo, or Aleut 5 <input type="checkbox"/> Other race (Print race)</p> <p>----- [] [] []</p>		<p>1 <input type="checkbox"/> Black or Negro 2 <input type="checkbox"/> White 3 <input type="checkbox"/> Asian or Pacific Islander (Print one group, for example: Chinese, Filipino, Hawaiian, Japanese, Laotian, Asian Indian, Korean, Samoan, Vietnamese, and so on.)</p> <p>----- [] [] []</p> <p>4 <input type="checkbox"/> Indian (Amer.), Eskimo, or Aleut 5 <input type="checkbox"/> Other race (Print race)</p> <p>----- [] [] []</p>	
<p>5. AGE AND YEAR OF BIRTH a. How old is . . . ? (Age should be as of April 1, 1990.) If unknown, ask — Please give me your best estimate. Print the age in the boxes. b. In what year was . . . born? Print the year of birth in the boxes.</p>	a. Age	[] [] []	a. Age	[] [] []
	b. Year of birth	1 [] [] [] []	b. Year of birth	1 [] [] [] []
<p>6. Is . . . now married, consensually married, widowed, divorced, separated, or has . . . never been married? Mark (X) ONE box for each person.</p>	<p>1 <input type="checkbox"/> Now married 2 <input type="checkbox"/> Consensually married 3 <input type="checkbox"/> Widowed 4 <input type="checkbox"/> Divorced 5 <input type="checkbox"/> Separated 6 <input type="checkbox"/> Never married</p>		<p>1 <input type="checkbox"/> Now married 2 <input type="checkbox"/> Consensually married 3 <input type="checkbox"/> Widowed 4 <input type="checkbox"/> Divorced 5 <input type="checkbox"/> Separated 6 <input type="checkbox"/> Never married</p>	
<p>7. Is . . . of Spanish/Hispanic origin? For example: Mexican, Mexican-American, Chicano, Puerto Rican, Cuban, Ecuadoran, Dominican (Dominican Republic), Spaniard, Salvadoran, and so on. If "Yes," ask — Which Spanish/Hispanic group is . . . ? Mark (X) the appropriate box and if "Other Spanish/Hispanic," print one group.</p>	<p>1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Dominican (Dominican Republic) 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Mexican, Nicaraguan, Salvadoran, Spaniard, and so on.)</p> <p>----- [] [] []</p>		<p>1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Dominican (Dominican Republic) 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Mexican, Nicaraguan, Salvadoran, Spaniard, and so on.)</p> <p>----- [] [] []</p>	

NOW PLEASE ASK QUESTIONS H1a--H26 FOR THIS HOUSEHOLD

PERSON 7

Last name _____

First name _____ Middle Initial _____

If a RELATIVE of Person 1:

1 Husband/wife 4 Brother/sister
 2 Natural-born or adopted son/daughter 5 Father/mother
 3 Stepson/stepdaughter 6 Grandchild
 7 Other relative _____

8 Roomer, boarder, or foster child 10 Unmarried partner
 9 Housemate, roommate 11 Other nonrelative

1 Male 2 Female

1 Black or Negro
 2 White
 3 Asian or Pacific Islander (Print one group, for example: Chinese, Filipino, Hawaiian, Japanese, Laotian, Asian Indian, Korean, Samoan, Vietnamese, and so on.) _____

4 Indian (Amer.), Eskimo, or Aleut
 5 Other race (Print race) _____

a. Age

b. Year of birth

1 Now married
 2 Consensually married
 3 Widowed
 4 Divorced
 5 Separated
 6 Never married

1 No (not Spanish/Hispanic)
 2 Yes, Dominican (Dominican Republic)
 3 Yes, Puerto Rican
 4 Yes, Cuban
 5 Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Mexican, Nicaraguan, Salvadoran, Spaniard, and so on.) _____

H1a. When you told me the names of persons living here on April 1, did you leave anyone out 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?

1 Yes — Determine if you should add the person(s) based on the instructions for Question 1a.
 2 No

b. When you told me the names of persons living here on April 1, did you include anyone 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?

1 Yes — Determine if you should delete the person(s) based on the instructions for Question 1a.
 2 No

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

1 A mobile home or trailer
 2 A one-family house detached from any other house
 3 A one-family house attached to one or more houses
 4 A building with 2 apartments
 5 A building with 3 or 4 apartments
 6 A building with 5 to 9 apartments
 7 A building with 10 to 19 apartments
 8 A building with 20 or more apartments
 9 A boat or houseboat
 10 Other

H3. How many rooms do you have in this (house/apartment)? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

1 1 room 6 6 rooms
 2 2 rooms 7 7 rooms
 3 3 rooms 8 8 rooms
 4 4 rooms 9 9 or more rooms
 5 5 rooms

H4. Is this (house/apartment) —

1 Owned by you or someone in this household with a mortgage or loan?
 2 Owned by you or someone in this household free and clear (without a mortgage)?
 3 Rented for cash rent?
 4 Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —

H5a. Is this house on ten or more acres?

1 Yes
 2 No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

1 Yes
 2 No

Ask only if someone in this household OWNS OR IS BUYING this house, apartment, mobile home, or boat —

H6. What is the value of this property; that is, how much do you think this (house and lot/condominium unit/mobile home/boat) would sell for if it were for sale?

1 Less than \$10,000 14 \$70,000 to \$74,999
 2 \$10,000 to \$14,999 15 \$75,000 to \$79,999
 3 \$15,000 to \$19,999 16 \$80,000 to \$89,999
 4 \$20,000 to \$24,999 17 \$90,000 to \$99,999
 5 \$25,000 to \$29,999 18 \$100,000 to \$124,999
 6 \$30,000 to \$34,999 19 \$125,000 to \$149,999
 7 \$35,000 to \$39,999 20 \$150,000 to \$174,999
 8 \$40,000 to \$44,999 21 \$175,000 to \$199,999
 9 \$45,000 to \$49,999 22 \$200,000 to \$249,999
 10 \$50,000 to \$54,999 23 \$250,000 to \$299,999
 11 \$55,000 to \$59,999 24 \$300,000 to \$399,999
 12 \$60,000 to \$64,999 25 \$400,000 to \$499,999
 13 \$65,000 to \$69,999 26 \$500,000 or more

Ask only if this house, apartment, mobile home, or boat is RENTED FOR CASH RENT —

H7a. What is the monthly rent?
 If rent is NOT PAID BY THE MONTH, see your job instructions on how to figure a monthly rent.

1 Less than \$80 14 \$375 to \$399
 2 \$80 to \$99 15 \$400 to \$424
 3 \$100 to \$124 16 \$425 to \$449
 4 \$125 to \$149 17 \$450 to \$474
 5 \$150 to \$174 18 \$475 to \$499
 6 \$175 to \$199 19 \$500 to \$524
 7 \$200 to \$224 20 \$525 to \$549
 8 \$225 to \$249 21 \$550 to \$599
 9 \$250 to \$274 22 \$600 to \$649
 10 \$275 to \$299 23 \$650 to \$699
 11 \$300 to \$324 24 \$700 to \$749
 12 \$325 to \$349 25 \$750 to \$999
 13 \$350 to \$374 26 \$1,000 or more

b. Does the monthly rent include any meals?

1 Yes
 2 No

FOR ENUMERATOR USE

C1. Vacancy status

1 For rent
 2 For sale only
 3 Rented or sold, not occupied
 4 For seas/rec/occ
 5 For migrant workers
 6 Other vacant

C2. Is this unit boarded up?

1 Yes
 2 No

D. Months vacant

1 Less than 1
 2 1 up to 2
 3 2 up to 6
 4 6 up to 12
 5 12 up to 24
 6 24 or more

<p>H8. When did (Person listed in column 1 on page 2) move into this (house/apartment)?</p> <p>1 <input type="checkbox"/> 1989 or 1990 2 <input type="checkbox"/> 1985 to 1988 3 <input type="checkbox"/> 1980 to 1984 4 <input type="checkbox"/> 1970 to 1979 5 <input type="checkbox"/> 1960 to 1969 6 <input type="checkbox"/> 1959 or earlier</p>	<p>H14. Which FUEL is used MOST for cooking in this (house/apartment)?</p> <p>1 <input type="checkbox"/> Gas: bottled or tank 2 <input type="checkbox"/> Electricity 3 <input type="checkbox"/> Fuel oil, kerosene, etc. 4 <input type="checkbox"/> Wood or charcoal 5 <input type="checkbox"/> Other fuel 6 <input type="checkbox"/> No fuel used</p>	<p>H20a. What is the average monthly cost for electricity for this (house/apartment/mobile home/boat)?</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> \$ _____ .00 </div> <p style="text-align: center;">Average monthly cost — Dollars</p> <p style="text-align: center;">OR</p> <p>1 <input type="checkbox"/> Included in rent or in condominium fee 2 <input type="checkbox"/> No charge or electricity not used</p>
<p>H9. How many bedrooms do you have; that is, how many bedrooms would you list if this (house/apartment) were on the market for sale or rent?</p> <p>0 <input type="checkbox"/> No bedroom 1 <input type="checkbox"/> 1 bedroom 2 <input type="checkbox"/> 2 bedrooms 3 <input type="checkbox"/> 3 bedrooms 4 <input type="checkbox"/> 4 bedrooms 5 <input type="checkbox"/> 5 or more bedrooms</p>	<p>H15a. Do you get water from —</p> <p>1 <input type="checkbox"/> A public system only? 2 <input type="checkbox"/> A public system and cistern? 3 <input type="checkbox"/> A cistern, tanks, or drums only? 4 <input type="checkbox"/> A public standpipe? 5 <input type="checkbox"/> Some other source such as an individual well or a spring?</p>	<p>b. What is the average monthly cost for gas for this (house/apartment/mobile home/boat)?</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> \$ _____ .00 </div> <p style="text-align: center;">Average monthly cost — Dollars</p> <p style="text-align: center;">OR</p> <p>1 <input type="checkbox"/> Included in rent or in condominium fee 2 <input type="checkbox"/> No charge or gas not used</p>
<p>H10. Do you have COMPLETE plumbing facilities in this (house/apartment); that is, piped water, a flush toilet, and a bathtub or shower?</p> <p>1 <input type="checkbox"/> Yes, have all three facilities 2 <input type="checkbox"/> No</p>	<p>b. Did you purchase any water from a water vendor during the past year?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>c. What is the average monthly cost for water for this (house/apartment/mobile home/boat)?</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> \$ _____ .00 </div> <p style="text-align: center;">Average monthly cost — Dollars</p> <p style="text-align: center;">OR</p> <p>1 <input type="checkbox"/> Included in rent or in condominium fee 2 <input type="checkbox"/> No charge</p>
<p>H11. Do you have COMPLETE kitchen facilities; that is, a sink with piped water, a range or cookstove, and a refrigerator?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>H16. Is this building connected to a public sewer?</p> <p>1 <input type="checkbox"/> Yes, connected to public sewer 2 <input type="checkbox"/> No, connected to septic tank or cesspool 3 <input type="checkbox"/> No, use other means</p>	<p>d. What is the average monthly cost for oil, coal, kerosene, wood, etc. for this (house/apartment/mobile home/boat)?</p> <div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> \$ _____ .00 </div> <p style="text-align: center;">Average monthly cost — Dollars</p> <p style="text-align: center;">OR</p> <p>1 <input type="checkbox"/> Included in rent or in condominium fee 2 <input type="checkbox"/> No charge or these fuels not used</p>
<p>H12. Do you have a telephone in this (house/apartment)?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>H17. About when was this building first built?</p> <p>1 <input type="checkbox"/> 1989 or 1990 2 <input type="checkbox"/> 1985 to 1988 3 <input type="checkbox"/> 1980 to 1984 4 <input type="checkbox"/> 1970 to 1979 5 <input type="checkbox"/> 1960 to 1969 6 <input type="checkbox"/> 1950 to 1959 7 <input type="checkbox"/> 1940 to 1949 8 <input type="checkbox"/> 1939 or earlier 9 <input type="checkbox"/> Don't know</p>	<p>H18. Is this (house/apartment) part of a condominium?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>
<p>H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of this household?</p> <p>0 <input type="checkbox"/> None 1 <input type="checkbox"/> 1 2 <input type="checkbox"/> 2 3 <input type="checkbox"/> 3 4 <input type="checkbox"/> 4 5 <input type="checkbox"/> 5 6 <input type="checkbox"/> 6 7 <input type="checkbox"/> 7 or more</p>	<p><i>If respondent reported living in an apartment building or boat, skip to H20.</i></p> <p>H19a. Is this house on —</p> <p>1 <input type="checkbox"/> Less than 1 acre? 2 <input type="checkbox"/> 1 to 9 acres? 3 <input type="checkbox"/> 10 or more acres?</p>	<p>H19b. In 1989, what were the actual sales of all agricultural products from this property?</p> <p>0 <input type="checkbox"/> None 1 <input type="checkbox"/> \$1 to \$99 2 <input type="checkbox"/> \$100 to \$499 3 <input type="checkbox"/> \$500 to \$999 4 <input type="checkbox"/> \$1,000 to \$2,499 5 <input type="checkbox"/> \$2,500 or more</p>

INTERVIEWER INSTRUCTION:

Ask questions H21 TO H26 if this is a one-family house, a condominium, a mobile home, or a boat that someone in this household OWNS OR IS BUYING; (any of owned categories in H4). Otherwise, go to page 6.

H23a. Is there a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

- 1 Yes, mortgage, deed of trust, or similar debt
 - 2 Yes, contract to purchase
 - 3 No — Skip to H24a
- } Go to H23b

H24a. Is there a second or junior mortgage or a home equity loan on THIS property?

- 1 Yes
- 2 No — Skip to H25

b. How much is the regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

\$.00
Monthly amount — Dollars

OR

- 0 No regular payment required — Skip to H24a

b. How much is the regular monthly payment on all second or junior mortgages and all home equity loans?

\$.00
Monthly amount — Dollars

OR

- 0 No regular payment required

H21. What were the real estate taxes on THIS property last year?

\$.00
Yearly amount — Dollars

OR

- 0 None

Ask ONLY if this is a CONDOMINIUM —
H25. What is the monthly condominium fee?

\$.00
Monthly amount — Dollars

c. Does the regular monthly mortgage payment include payments for real estate taxes on THIS property?

- 1 Yes, taxes included in payment
- 2 No, taxes paid separately or taxes not required

Ask ONLY if this is a MOBILE HOME or a BOAT —
H26. What was the total cost for personal property taxes, site rent, marina fee, registration fees, and license fees on this (mobile home/boat) and its (site/slip) last year? Exclude real estate taxes.

\$.00
Yearly amount — Dollars

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

\$.00
Yearly amount — Dollars

OR

- 0 None

d. Does the regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- 1 Yes, insurance included in payment
- 2 No, insurance paid separately or no insurance

Please turn to page 6 and ask questions for person 1 listed on page 2.

PERSON 1

Last name First name Middle initial

8. Where was ... born?
Print the name of the island in the U.S. Virgin Islands, or the name of the U.S. State, commonwealth, territory, or foreign country in the space below.

9. If the answer to question 8 appears in one of the first two "Yes" categories listed below, mark (X) the appropriate "Yes" category. Otherwise, ask —
Is ... a CITIZEN of the United States? That is, does ... have at least one American parent or is ... a citizen by naturalization?

10. When did ... come to the U.S. Virgin Islands to stay? If entered country more than once, ask — What is the latest year?

11. At any time since February 1, 1990, has ... 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. If "Yes," ask — Public or private?

12. How much school has ... COMPLETED? Read categories if person is unsure. Mark (X) ONE box for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received.

13. What is ...'s ancestry or ethnic origin? Ancestry means ethnic origin or descent, "roots," or heritage. For example: Crucian, St. Johnian, St. Thomian, Dane, British Virgin Islander, Nigerian, Angolan, Nevisian, Antiguan, British, Barbadian, French, Puerto Rican, Haitian, Kittitian, Asian Indian, Lebanese, Polish, Canadian, German, etc.

14a. If the person was born after April 1, 1985, mark (X) that box without asking 14a, and go to next person.
Did ... live in this house or apartment 5 years ago (on April 1, 1985)?

14b. Where did ... live 5 years ago?
Print the name of the island in the U.S. Virgin Islands, or the name of the U.S. State, commonwealth, territory, or foreign country in the space below.

15a. Does ... speak a language other than English at home?

15b. What is this language?
For example: French, Spanish, Chinese, Italian

15c. How well does ... speak English — very well, well, not well, or not at all?

16. INTERVIEWER CHECK ITEM — Mark (X) ONE box based on question 5.

17a. Has ... 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? "Active duty" does NOT include training for the military Reserves or National Guard.

17b. Did ... serve on active duty during — Read each category and mark (X) each box for which the answer is "Yes."

17c. In total, how many years of active-duty military service has ... had?

18. Does ... have a physical, mental, or other health condition that has lasted for 6 or more months and which —

19. Because of a health condition that has lasted for 6 or more months, does ... have any difficulty —

20. If this person is female, ask — How many babies has ... ever had, not counting stillbirths? Do not count stepchildren or children ... has adopted.

21a. Did ... work at any time LAST WEEK, either full time or part time? Work includes part-time work such as delivering papers, or helping without pay in a family business or farm; it also includes active duty in the Armed Forces. Work does NOT include own housework, school work, or volunteer work.

21b. How many hours did ... work LAST WEEK at all jobs? Subtract any time off and add any overtime or extra hours worked.

22a. Where did ... usually work LAST WEEK? If ... worked at more than one location, ask — Where did ... work most last week?

22b. What is the name of the island where ... worked?

22c. What is the street address where ... worked? If the exact address is not known, ask for a description of the location such as the building name or shopping center.

22d. What is the name of the town or area of the island where ... worked?

22e. What is the name of the U.S. State, commonwealth, territory, or foreign country where ... worked?

23a. What type of transportation did . . . usually use to get to work LAST WEEK? If more than one method of transportation usually was used during the trip, mark (X) the box of the one used for most of the distance.

1 Car, truck, or van
 2 Bus
 3 Taxicab
 4 Motorcycle
 5 Safari or taxi bus
 6 Ferryboat or water taxi
 7 Walked
 8 Worked at home — Skip to 28
 9 Other method

Ask only if "car, truck, or van" is marked in 23a.

b. How many people, including . . . , usually rode to work together LAST WEEK?

- 1 Drove alone
 2 2 people
 3 3 people
 4 4 people
 5 5 people
 6 6 people
 7 7 to 9 people
 8 10 or more people

24a. What time did . . . usually leave home to go to work LAST WEEK? "Usually" means on most days last week.

1 a.m.
 2 p.m.

b. How many minutes did it usually take . . . to get from home to work LAST WEEK?

Minutes — Skip to 28

25. Was . . . on layoff from a job or business LAST WEEK? If "No," ask — Was . . . temporarily absent or on vacation from a job or business last week?

- 1 Yes, on layoff
 2 Yes, on vacation, temporary illness, labor dispute, etc.
 3 No

26a. Has . . . been looking for work during the last 4 weeks?

- 1 Yes
 2 No — Skip to 27

b. Could . . . have taken a job LAST WEEK if one had been offered?

If "No," ask — For what reason?

- 1 No, already has a job
 2 No, temporarily ill
 3 No, other reasons (in school, etc.)
 4 Yes, could have taken a job

27. When did . . . last work, even for a few days?

- 1 1990
 2 1989
 3 1988
 4 1985 to 1987
 5 1980 to 1984
 6 1979 or earlier
 7 Never worked
- Go to 28
 Skip to 32

28-30. The following questions ask about the job worked last week. If . . . had more than one job, describe the one . . . worked the most hours. If . . . didn't work, the questions refer to the most recent job or business since 1985.

28a. For whom did . . . work?

If now on active duty in the Armed Forces, mark (X) this box 1 and print the branch of the Armed Forces.
 If not the Armed Forces, print the 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, department store, shirt manufacturer, retail bakery.

c. Is this mainly manufacturing, wholesale trade, retail trade, or something else?

- 1 Manufacturing
 2 Wholesale trade
 3 Retail trade
 4 Other (agriculture, construction, service, government, etc.)

29a. What kind of work was . . . doing?

For example: registered nurse, personnel manager, supervisor of order department, sewing machine operator, cake icer.

b. What were . . . 's most important activities or duties?

For example: patient care, directing hiring policies, supervising order clerks, sewing shirts, icing cakes.

30. Was . . . — Read list. Mark (X) ONE box.

- 1 Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
 2 Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
 3 Local GOVERNMENT employee (territorial, etc.)
 4 Federal GOVERNMENT employee
 5 SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
 6 SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
 7 Working WITHOUT PAY in family business or farm

31a. Last year (1989), did . . . work, even for a few days, at a paid job or in a business or farm?

- 1 Yes
 2 No — Skip to 32

b. How many weeks did . . . work in 1989? Count paid vacation, paid sick leave, and military service.

Weeks

c. During the weeks WORKED in 1989, how many hours did . . . usually work each week?

Hours

32. The following questions are about income received during 1989.

If an exact amount is not known, accept a best estimate. If net income in b, c, d, or question 33 was a loss, write "Loss" above the dollar amount.

a. Did . . . earn income from wages, salary, commissions, bonuses, or tips? Report amount before deductions for taxes, bonds, dues, or other items.

1 Yes — How much from all jobs? → \$.00
 2 No
 Annual amount — Dollars

b. Did . . . earn any income from (his/her) own nonfarm business, proprietorship, or partnership? Report net income after business expenses.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

c. Did . . . earn any income from (his/her) own farm business? Include earnings as a tenant farmer or sharecropper. Report net income after operating expenses.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

d. Did . . . receive any interest, dividends, net rental or royalty income, or income from estates and trusts? Include even small amounts credited to an account.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

e. Did . . . receive any Social Security or Railroad Retirement payments? Include payments to retired workers, dependents, and to disabled workers.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

f. Did . . . receive any income from government programs for Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments?

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

g. Did . . . receive any income from retirement, survivor, or disability pensions? Include payments from companies, unions, Federal, State, and local governments, and the U.S. military. Do NOT include Social Security.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

h. Did . . . receive any income from Veterans' (VA) payments, unemployment compensation, child support or alimony, or any other regular source of income? Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

1 Yes — How much? → \$.00
 2 No
 Annual amount — Dollars

33. Do not ask this question if 32a through 32h are complete. Instead, sum these entries and enter the amount below.

What was . . . 's total income in 1989?

0 None OR \$.00
 Annual amount — Dollars

Please turn to the next page and ask the questions for Person 2 on page 2. If this is the last person listed in question 1a on page 1, go to the back of the form.

INTERVIEWER INSTRUCTIONS:

Before you leave this housing unit, be sure **you** have recorded —

1. Information in items A1, A3, A4 and B through E, F1 (when necessary), G and H on the front cover of the questionnaire.
2. The respondent's name in item I and the respondent's telephone number (if any) in item J on the front cover of the questionnaire.
3. **Your** signature (name) and the date under item O on the front cover of the questionnaire.

Also, be sure you have —

4. Completed as many of the census questions as possible, including the last resort questions.
5. Completed the FOR ENUMERATOR USE section on page 3, for vacant units only.
6. Entered the required information on the address listing page on the address register **and** on the map(s).



APPENDIX F.

Data Products and User Assistance

CONTENTS

Data Products	F-1
Geographic Products	F-2
Other Census Bureau Resources	F-5
Reference Materials	F-3
Sources of Assistance	F-4

The 1990 census data products for the Virgin Islands of the United States (Virgin Islands) are being released during 1991-93 and are available in a variety of new and traditional media. The Census Bureau increased the product options available to data users to meet a variety of requirements and maximize the usefulness of the data. For example, flexible diskettes for microcomputers are a new data delivery medium for the Virgin Islands.

The Census Bureau also expanded services and sources of assistance available to data users. For example, the data center program has over 1,400 organizations (including several in the Virgin Islands) 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 some data on microfiche and flexible diskettes. These various products are described in this section. 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 for the Virgin Islands. These subjects are listed in figure 1, page F-6.

Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports for the Virgin Islands in several series (see figure 2, page F-7) 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). In addition, there are reports, not reflected in figure 2, for the United States, Puerto Rico, and the Pacific Outlying Areas (American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the Republic of Palau). 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.)

The geographic coverage of the Virgin Islands reports is listed in figure 2. Report series that present data for small areas, such as block numbering areas, 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, page F-8.

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 for the Virgin Islands:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- An STF may have two 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 1 contains population and housing counts and basic or stateside 100-percent equivalent population (age, race, sex, marital status, relationship, Hispanic origin) and housing (tenure and vacancy data) characteristics. There are two files:

File A contains data for the Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA/ block group.

File B contains data for the Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA/ block group/ block.

- STF 2 contains more detailed data on the basic population and housing characteristics than those shown in STF 1. The file provides data for the Virgin Islands in a geographic hierarchy of island/ island subdivision/ place/ block numbering area (BNA). It also presents BNA summaries for split BNA's. The file includes records for the total population and iterations for race and Hispanic origin.
- STF 3 contains demographic, social, economic, and housing characteristics. The file provides data for the Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA/ block group.
- STF 4 contains more detailed distributions of the population and housing characteristics than those shown in STF 3. This file includes records for the total population and iterations for race and Hispanic origin. It will provide data for BNA's in the Virgin Islands in a geographic hierarchy of island/ island subdivision/ place/ BNA. It also presents BNA summaries for split BNA's.

Public Use Microdata Sample (PUMS) File—This computer tape file (see figure 4) contains data from samples of housing-unit records ("microdata"). 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.

The microdata file enables users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There is one PUMS file for the Virgin Islands. It presents a 10-percent sample of housing units.

Flexible Diskettes

STF's and the PUMS file for the Virgin Islands also will be offered on flexible diskettes ("floppies") for IBM and compatible microcomputers using the PC DOS 1.1 or higher operating systems.

Microfiche

Printed reports are available on microfiche from Customer Services soon after they are published. Plans to prepare microfiche versions of selected other products were canceled. Instead, the products are offered on CD-ROM.

Compact Disc-Read-Only Memory (CD-ROM)

Following revised product plans, the Census Bureau is offering STF's 1A, 1B, and 3A for the Virgin Islands on

CD-ROM. (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 data from STF's 1 and 3.

Custom Data Products

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.

The cost of preparing custom products must be paid by the users who request them. 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.

User-Defined Areas Program (UDAP) Tabulations—UDAP can provide data for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

Special Tabulations—The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, diskettes, 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 for the Virgin Islands. Among the most useful are these three series:

County Block Maps (1990)—These maps show census blocks and their numbers; boundaries for statistical and legally defined entities, such as census subdistricts, places, and block numbering areas; and physical features. The maps are prepared on electrostatic plotters by island (the Virgin Islands' equivalent of a county for reporting statistics), with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. Data users may purchase these maps from Customer Services.

County Subdivision Outline Map—This map of the Virgin Islands shows the islands (the equivalent of counties for reporting statistics) and the names and boundaries of the census subdistricts and places. Electrostatic-plotter copies are available for purchase from Customer Services. The map, in page size, also appears in the following Virgin Islands census reports: 1990 CPH-1-55, 1990 CPH-2-55, 1990 CPH-5-55, 1990 CP-1-55, 1990 CP-2-55, 1990 CH-1-55, and 1990 CH-2-55.

Census Tract/ Block Numbering Area (BNA) Outline Maps—Maps in this island-based series depict BNA boundaries and numbers (there are no census tracts in the Virgin Islands), the features underlying these boundaries, and the names and boundaries of the census subdistricts and places. Customer Services sells electrostatic-plotter copies, and the Superintendent of Documents sells printed copies.

Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series shows the 1990 census geographic area codes and Federal Information Processing Standards (FIPS) codes, as appropriate, for the Virgin Islands and its islands, island subdivisions, and places, as well as for States, Puerto Rico, the Pacific Outlying Areas, and other entities, along with some descriptive information about the codes. The code scheme also is offered on computer tape.

Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and total 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 Virgin Islands, the entire United States, Puerto Rico, and the Pacific Outlying Areas.

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 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 included in TIGER. For example, a map for a particular island could show the distribution of the population selected by age groups by 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 contain attributes for the segments of each boundary and feature (for example, roads 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 provide the names of landmarks, such as lakes and cemeteries, and include other information.

TIGER/ Line™ files and other TIGER System extracts, such as TIGER/ Boundary™ and TIGER/ SDTS™ (Spatial Data Transfer Standard), 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 Tabulation and Publication Program for the Virgin Islands of the United States*. A free report describing 1990 census products for the Virgin Islands, comparing 1990 products with those of the 1980 census, and more. Request from Customer Services.
- *1990 Census of Population and Housing Tabulation and Publication Program*. A free report describing 1990 census products for the States, comparing 1990 products with those of the 1980 census, and more. 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.
- **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 the New York Regional Office, which serves the Virgin Islands. 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 301-763-4100 (FAX number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Planning Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—William Downs, Housing and Household Economic Statistics Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

Regional Office Contact—

New York, NY 212-264-4730

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 202-783-3238.

Other Sources of Products and Services

State Data Center—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to the Virgin Islands, all States, the District of Columbia, Puerto Rico, and Guam. Data centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. The lead agency of the Virgin Islands data center program is the Eastern Caribbean Center, University of the Virgin Islands, Charlotte Amalie, St. Thomas, VI 00802, telephone 809-776-9200, ext. 1238. For a list of all State Data Centers, see the *Census Catalog and Guide* or contact Customer Services.

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 in the United States, Virgin Islands, and other areas 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 for the Virgin Islands, the United States, Puerto Rico, and the Pacific Outlying Areas. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data for the United States and sometimes the Virgin Islands, Puerto Rico, and the Pacific Outlying Areas 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." Survey 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; manufactures' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

Statistical activities of the Census Bureau relevant to the Virgin Islands 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.

Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses include the censuses of retail trade, wholesale trade, service industries, transportation, manufactures, mineral industries, and construction industries.

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.

Agriculture Census

The agriculture census is conducted every 5 years (for years ending in 2 and 7) in the Virgin Islands. It is the only source of uniform agriculture data at the island 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.

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 the Virgin Islands and Puerto Rico as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States, the Virgin Islands, Puerto Rico, and the Pacific Outlying Areas.

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. Content of the 1990 Census of the Virgin Islands of the United States

BASIC SUBJECTS *

Population

Household relationship
 Sex
 Race
 Age
 Marital status
 Hispanic origin

Housing

Number of units in structure
 Number of rooms in unit
 Tenure—owned or rented
 Value of home or monthly rent
 Congregate housing (meals included in rent)
 Vacancy characteristics

DETAILED SUBJECTS *

Population

Social characteristics:

Place of birth, citizenship, and year of entry into the Virgin Islands
 Education—enrollment and attainment
 Ancestry
 Migration (residence in 1985)
 Language spoken at home
 Veteran status
 Disability
 Fertility

Economic characteristics:

Labor force
 Place of work and journey to work
 Year last worked
 Occupation, industry, and class of worker
 Work experience in 1989
 Income in 1989

Housing

Year householder moved into residence
 Number of bedrooms
 Complete plumbing and complete kitchen facilities
 Telephone in unit
 Vehicles available
 Cooking fuel
 Source of water and method of sewage disposal
 Purchase of water from water vendor
 Year structure built
 Condominium status
 Farm residence
 Shelter costs, including utilities

*In the Virgin Islands, all questions were asked of all persons and of all housing units. The basic subjects are equivalent to the stateside 100-percent subjects and the detailed subjects are equivalent to the stateside sample subjects.

Figure 2. 1990 Census Printed Reports for the Virgin Islands of the United States

Series	Title	Description	Geographic areas
1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)			
1990 CPH-1-55	Summary Population and Housing Characteristics	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, number of rooms, tenure, value and rent, and vacancy characteristics	Virgin Islands and its islands, census subdistricts, and places
1990 CPH-2-55	Population and Housing Unit Counts	Total population and housing unit counts for 1990 and previous censuses	Virgin Islands; its islands, census subdistricts, and places; and summary geographic areas
1990 CPH-3-55	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	Statistics on most of the population and housing subjects	Statistics presented in a geographic hierarchy of Virgin Islands— <u>island</u> — <u>place</u> — <u>block numbering area</u>
1990 CPH-5-55	Summary Social, Economic, and Housing Characteristics	Statistics on population and housing subjects	Virgin Islands and its islands, census subdistricts, and places
1990 CENSUS OF POPULATION (1990 CP)			
1990 CP-1-55	General Population Characteristics	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Virgin Islands; its islands, census subdistricts, and places; and summary geographic areas
1990 CP-2-55	Social and Economic Characteristics	Statistics generally on population subjects	Virgin Islands; its islands, census subdistricts, and places; and summary geographic areas
1990 CENSUS OF HOUSING (1990 CH)			
1990 CH-1-55	General Housing Characteristics	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Virgin Islands; its islands, census subdistricts, and places; and summary geographic areas
1990 CH-2-55	Detailed Housing Characteristics	Statistics generally on housing subjects	Virgin Islands; its islands, census subdistricts, and places; and summary geographic areas

Figure 3. 1990 Census Summary Tape Files for the Virgin Islands of the United States

Summary Tape File (STF 1A, 1B, etc.)	Geographic areas	Description
STF 1	A ¹	Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ block numbering area (BNA)/ block group (BG)
	B ¹	Virgin Islands of the United States and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA/ BG/ block
STF 2	A	Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA. It also presents BNA summaries for split BNA's.
STF 3	A ¹	Virgin Islands and its component areas in a geographic hierarchy of island/ census subdistrict/ place/ BNA/ BG
STF 4	A	Data for BNA's and larger areas in the Virgin Islands in a geographic hierarchy of island/ census subdistrict/ place/ BNA. It also presents BNA summaries for split BNA's.

¹Also available on CD-ROM. STF 1B CD-ROM provides only part of the data for blocks and other areas in the tape file.

Figure 4. Other 1990 Census Data Products for the Virgin Islands of the United States

Title	Description	Geographic areas
Special Supplementary Report	A series of cross tabulations of detailed population and housing data	Virgin Islands
Census/ Equal Opportunity (EEO) Special File	Sample tabulations showing detailed occupations and educational attainment data by age; cross tabulations by sex, Hispanic origin, and race	Virgin Islands
Public Use Microdata Sample (PUMS) File	Machine-readable file containing a sample of individual census records showing most population and housing characteristics but with identifying information removed	
10 Percent—PUMS Area		Virgin Islands
User-Defined Areas Tabulations	Sample data provided on printouts, tapes, or other products, with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
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)

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
```

¹Examples are for illustrative purposes and are not specific to this STF.

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 Examples¹

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.

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

Example 3

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					
T4 P14	Male					2
T4 P14	Female					
T5 P14	MARITAL STATUS					
T5 P14	Never married					5
T5 P14	Now married, except separated					
T5 P14	Separated					
T5 P14	Widowed					
T5 P14	Divorced					

¹Examples are for illustrative purposes and are not specific to this STF.

²These 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.

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 Example¹

See example 3 below.

APPENDIX H. Code Lists

CONTENTS

Industry	H-1
Occupation	H-8

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.

1990
Census
code

Industry category

AGRICULTURE, FORESTRY, AND FISHERIES

010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
012	Veterinary services (074)
020	Landscape and horticultural services (078)
030	Agricultural services, n.e.c. (071, 072, 075, 076)
031	Forestry (08)
032	Fishing, hunting, and trapping (09)

MINING

040	Metal mining (10)
041	Coal mining (12)
042	Oil and gas extraction (13)
050	Nonmetallic mining and quarrying, except fuels (14)

060 CONSTRUCTION (15, 16, 17)

MANUFACTURING

Nondurable Goods

Food and kindred products

100	Meat products (201)
101	Dairy products (202)
102	Canned, frozen, and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207,209)
122	Not specified food industries
130	Tobacco manufactures (21)

Textile mill products

132	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Carpets and rugs (227)

1990
Census
code

Industry category

MANUFACTURING—Con.

Nondurable Goods—Con.

142	Yarn, thread, and fabric mills (221-224, 228)
150	Miscellaneous textile mill products (229)
	Apparel and other finished textile products
151	Apparel and accessories, except knit (231-238)
152	Miscellaneous fabricated textile products (239)
	Paper and allied products
160	Pulp, paper, and paperboard mills (261-263)
161	Miscellaneous paper and pulp products (267)
162	Paperboard containers and boxes (265)
	Printing, publishing, and allied industries
171	Newspaper publishing and printing (271)
172	Printing, publishing, and allied industries, except newspapers (272-279)
	Chemicals and allied products
180	Plastics, synthetics, and resins (282)
181	Drugs (283)
182	Soaps and cosmetics (284)
190	Paints, varnishes, and related products (285)
191	Agricultural chemicals (287)
192	Industrial and miscellaneous chemicals (281, 286, 289)
	Petroleum and coal products
200	Petroleum refining (291)
201	Miscellaneous petroleum and coal products (295, 299)
	Rubber and miscellaneous plastics products
210	Tires and inner tubes (301)
211	Other rubber products, and plastics footwear and belting (302-306)
212	Miscellaneous plastics products (308)
	Leather and leather products
220	Leather tanning and finishing (311)
221	Footwear, except rubber and plastic (313, 314)
222	Leather products, except footwear (315-317, 319)
	Durable Goods
	Lumber and wood products, except furniture
230	Logging (241)
231	Sawmills, planing mills, and millwork (242, 243)
232	Wood buildings and mobile homes (245)
241	Miscellaneous wood products (244, 249)
242	Furniture and fixtures (25)
	Stone, clay, glass, and concrete products
250	Glass and glass products (321-323)
251	Cement, concrete, gypsum, and plaster products (324,327)
252	Structural clay products (325)
261	Pottery and related products (326)
262	Miscellaneous nonmetallic mineral and stone products (328, 329)

1990
Census
code

Industry category

MANUFACTURING—Con.

Durable Goods—Con.

Metal industries

270 Blast furnaces, steelworks, rolling and finishing mills (331)
271 Iron and steel foundries (332)
272 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 Fabricated structural metal products (344)
290 Screw machine products (345)
291 Metal forgings and stampings (346)
292 Ordnance (348)
300 Miscellaneous fabricated metal products (341, 343, 347, 349)
301 Not specified metal industries

Machinery and computing equipment

310 Engines and turbines (351)
311 Farm machinery and equipment (352)
312 Construction and material handling machines (353)
320 Metalworking machinery (354)
321 Office and accounting machines (3578, 3579)
322 Computers and related equipment (3571-3577)
331 Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332 Not specified machinery

Electrical machinery, equipment, and supplies

340 Household appliances (363)
341 Radio, TV, and communication equipment (365, 366)
342 Electrical machinery, equipment, and supplies, n.e.c. (361,362, 364, 367, 369)
350 Not specified electrical machinery, equipment, and supplies

Transportation equipment

351 Motor vehicles and motor vehicle equipment (371)
352 Aircraft and parts (372)
360 Ship and boat building and repairing (373)
361 Railroad locomotives and equipment (374)
362 Guided missiles, space vehicles, and parts (376)
370 Cycles and miscellaneous transportation equipment (375, 379)

Professional and photographic equipment, and watches

371 Scientific and controlling instruments (381, 382 exc. 3827)
372 Medical, dental, and optical instruments and supplies (3827,384, 385)
380 Photographic equipment and supplies (386)
381 Watches, clocks, and clockwork operated devices (387)
390 Toys, amusement, and sporting goods (394)
391 Miscellaneous manufacturing industries (39 exc. 394)
392 Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

Transportation

400 Railroads (40)
401 Bus service and urban transit (41, except 412)
402 Taxicab service (412)
410 Trucking service (421, 423)

1990
Census
code

Industry category

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—Con.

411 Warehousing and storage (422)
412 U.S. Postal Service (43)
420 Water transportation (44)
421 Air transportation (45)
422 Pipe lines, except natural gas (46)
432 Services incidental to transportation (47)

Communications

440 Radio and television broadcasting and cable (483, 484)
441 Telephone communications (481)
442 Telegraph and miscellaneous communications services (482, 489)

Utilities and sanitary services

450 Electric light and power (491)
451 Gas and steam supply systems (492, 496)
452 Electric and gas, and other combinations (493)
470 Water supply and irrigation (494, 497)
471 Sanitary services (495)
472 Not specified utilities

WHOLESALE TRADE

Durable Goods

500 Motor vehicles and equipment (501)
501 Furniture and home furnishings (502)
502 Lumber and construction materials (503)
510 Professional and commercial equipment and supplies (504)
511 Metals and minerals, except petroleum (505)
512 Electrical goods (506)
521 Hardware, plumbing and heating supplies (507)
530 Machinery, equipment, and supplies (508)
531 Scrap and waste materials (5093)
532 Miscellaneous wholesale, durable goods (509 exc. 5093)

Nondurable Goods

540 Paper and paper products (511)
541 Drugs, chemicals and allied products (512, 516)
542 Apparel, fabrics, and notions (513)
550 Groceries and related products (514)
551 Farm-product raw materials (515)
552 Petroleum products (517)
560 Alcoholic beverages (518)
561 Farm supplies (5191)
562 Miscellaneous wholesale, nondurable goods (5192-5199)
571 Not specified wholesale trade

RETAIL TRADE

580 Lumber and building material retailing (521, 523)
581 Hardware stores (525)
582 Retail nurseries and garden stores (526)
590 Mobile home dealers (527)
591 Department stores (531)
592 Variety stores (533)

1990
Census
code

Industry category

RETAIL TRADE—Con.

600 Miscellaneous general merchandise stores (539)
601 Grocery stores (541)
602 Dairy products stores (545)
610 Retail bakeries (546)
611 Food stores, n.e.c. (542, 543, 544, 549)
612 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 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 Radio, TV, and computer stores (5731, 5734)
640 Music stores (5735, 5736)
641 Eating and drinking places (58)
642 Drug stores (591)
650 Liquor stores (592)
651 Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652 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 Catalog and mail order houses (5961)
670 Vending machine operators (5962)
671 Direct selling establishments (5963)
672 Fuel dealers (598)
681 Retail florists (5992)
682 Miscellaneous retail stores (593, 5948, 5993-5995, 5999)
691 Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

700 Banking (60 exc. 603 and 606)
701 Savings institutions, including credit unions (603, 606)
702 Credit agencies, n.e.c. (61)
710 Security, commodity brokerage, and investment companies (62, 67)
711 Insurance (63, 64)
712 Real estate, including real estate-insurance offices (65)

BUSINESS AND REPAIR SERVICES

721 Advertising (731)
722 Services to dwellings and other buildings (734)
731 Personnel supply services (736)
732 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 Automotive rental and leasing, without drivers (751)
750 Automobile parking and carwashes (752, 7542)
751 Automotive repair and related services (753, 7549)
752 Electrical repair shops (762, 7694)
760 Miscellaneous repair services (763, 764, 7692, 7699)

1990
Census
code

Industry category

PERSONAL SERVICES

761 Private households (88)
762 Hotels and motels (701)
770 Lodging places, except hotels and motels (702, 703, 704)
771 Laundry, cleaning, and garment services (721 exc. part 7219)
772 Beauty shops (723)
780 Barber shops (724)
781 Funeral service and crematories (726)
782 Shoe repair shops (725)
790 Dressmaking shops (part 7219)
791 Miscellaneous personal services (722, 729)

ENTERTAINMENT AND RECREATION SERVICES

800 Theaters and motion pictures (781-783, 792)
801 Video tape rental (784)
802 Bowling centers (793)
810 Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

812 Offices and clinics of physicians (801, 803)
820 Offices and clinics of dentists (802)
821 Offices and clinics of chiropractors (8041)
822 Offices and clinics of optometrists (8042)
830 Offices and clinics of health practitioners, n.e.c. (8043, 8049)
831 Hospitals (806)
832 Nursing and personal care facilities (805)
840 Health services, n.e.c. (807, 808, 809)
841 Legal services (81)
842 Elementary and secondary schools (821)
850 Colleges and universities (822)
851 Vocational schools (824)
852 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 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 Labor unions (863)
880 Religious organizations (866)
881 Membership organizations, n.e.c. (861, 862, 864, 865, 869)
882 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 Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

900 Executive and legislative offices (911-913)
901 General government, n.e.c. (919)
910 Justice, public order, and safety (92)
921 Public finance, taxation, and monetary policy (93)

1990
Census
code

Industry category

PUBLIC ADMINISTRATION—Con.

922 Administration of human resources programs (94)
930 Administration of environmental quality and housing programs (95)
931 Administration of economic programs (96)
932 National security and international affairs (97)

ACTIVE DUTY MILITARY

Armed Forces

940 Army
941 Air Force
942 Navy
950 Marines
951 Coast Guard
952 Armed Forces, Branch not specified
960 Military Reserves or National Guard

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY

992 Last worked 1984 or earlier

OCCUPATION

The list presents the occupational classification developed for the 1990 Census of Population and Housing. There are 501 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.

In the Table (Matrix) Outlines and the Table (Matrix) Section, many occupation codes are presented as ranges; for example, legislators (001-003). In this appendix, the Occupation Code List includes single census occupation codes and comparable Standard Occupational Classification (SOC) code equivalents. Single census occupation codes in this appendix are equivalent to corresponding census code ranges in the Table (Matrix) Outlines and Table (Matrix) Section.

1990
Census
code

Occupation category

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

Executive, Administrative, and Managerial Occupations

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	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	Funeral directors (pt 1359)
021	Managers, service organizations, n.e.c. (127, 1352, 1354, pt 1359)
022	Managers and administrators, n.e.c. (121, 126, 132-1343, 136-139)

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	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	Management related occupations, n.e.c. (149)

Professional Specialty Occupations

Engineers, Architects, and Surveyors

043	Architects (161)
	Engineers
044	Aerospace (1622)
045	Metallurgical and materials (1623)
046	Mining (1624)

1990
Census
code

Occupation category

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

047 Petroleum (1625)
048 Chemical (1626)
049 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 Engineers, n.e.c. (1639)
063 Surveyors and mapping scientists (164)

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)

Natural Scientists

069 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 Forestry and conservation scientists (1852)
083 Medical scientists (1855)

Health Diagnosing Occupations

084 Physicians (261)
085 Dentists (262)
086 Veterinarians (27)
087 Optometrists (281)
088 Podiatrists (283)
089 Health diagnosing practitioners, n.e.c. (289)

Health Assessment and Treating Occupations

095 Registered nurses (29)
096 Pharmacists (301)
097 Dietitians (302)

Therapists

098 Respiratory therapists (3031)
099 Occupational therapists (3032)
103 Physical therapists (3033)
104 Speech therapists (3034)
105 Therapists, n.e.c. (3039)
106 Physicians' assistants (304)

1990
Census
code

Occupation category

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

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 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 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 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 Home economics teachers (2247)
153 Teachers, postsecondary, n.e.c. (2249)
154 Postsecondary teachers, subject not specified

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 Teachers, n.e.c. (236, 239)
163 Counselors, educational and vocational (24)

Librarians, Archivists, and Curators

164 Librarians (251)
165 Archivists and curators (252)

Social Scientists and Urban Planners

166 Economists (1912)
167 Psychologists (1915)
168 Sociologists (1916)
169 Social scientists, n.e.c. (1913, 1914, 1919)
173 Urban planners (192)

1990
Census
code

Occupation category

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.

Professional Specialty Occupations—Con.

Social, Recreation, and Religious Workers

174 Social workers (2032)
175 Recreation workers (2033)
176 Clergy (2042)
177 Religious workers, n.e.c. (2049)

Lawyers and Judges

178 Lawyers (211)
179 Judges (212)

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 Photographers (326)
193 Dancers (327)
194 Artists, performers, and related workers, n.e.c. (328, 329)
195 Editors and reporters (331)
197 Public relations specialists (332)
198 Announcers (333)
199 Athletes (34)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

Technicians and Related Support Occupations

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 Health technologists and technicians, n.e.c. (369)

Technologists and Technicians, Except Health

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 Surveying and mapping technicians (373)

Science Technicians

223 Biological technicians (382)
224 Chemical technicians (3831)
225 Science technicians, n.e.c. (3832, 3833, 384, 389)

Technicians; Except Health, Engineering, and Science

226 Airplane pilots and navigators (825)
227 Air traffic controllers (392)

1990
Census
code

Occupation category

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Technicians and Related Support Occupations—Con.

228 Broadcast equipment operators (393)
229 Computer programmers (3971, 3972)
233 Tool programmers, numerical control (3974)
234 Legal assistants (396)
235 Technicians, n.e.c. (399)

Sales Occupations

243 Supervisors and proprietors, sales occupations (40)

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)

Sales Representatives, Commodities Except Retail

258 Sales engineers (421)
259 Sales representatives, mining, manufacturing, and wholesale (423, 424)

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 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 News vendors (4365)

Sales Related Occupations

283 Demonstrators, promoters and models, sales (445)
284 Auctioneers (447)
285 Sales support occupations, n.e.c. (444, 446, 449)

Administrative Support Occupations, Including Clerical

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)

Computer Equipment Operators

308 Computer operators (4612)
309 Peripheral equipment operators (4613)

1990
Census
code

Occupation category

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Administrative Support Occupations, Including Clerical—Con.

Secretaries, Stenographers, and Typists

313 Secretaries (4622)
314 Stenographers (4623)
315 Typists (4624)

Information Clerks

316 Interviewers (4642)
317 Hotel clerks (4643)
318 Transportation ticket and reservation agents (4644)
319 Receptionists (4645)
323 Information clerks, n.e.c. (4649)

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 Library clerks (4694)
335 File clerks (4696)
336 Records clerks (4699)

Financial Records Processing Occupations

337 Bookkeepers, accounting, and auditing clerks (4712)
338 Payroll and timekeeping clerks (4713)
339 Billing clerks (4715)
343 Cost and rate clerks (4716)
344 Billing, posting, and calculating machine operators (4718)

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)

Communications Equipment Operators

348 Telephone operators (4732)
353 Communications equipment operators, n.e.c. (4733, 4739)

Mail and Message Distributing Occupations

354 Postal clerks, exc. mail carriers (4742)
355 Mail carriers, postal service (4743)
356 Mail clerks, exc. postal service (4744)
357 Messengers (4745)

Material Recording, Scheduling, and Distributing Clerks

359 Dispatchers (4751)
363 Production coordinators (4752)
364 Traffic, shipping, and receiving clerks (4753)
365 Stock and inventory clerks (4754)
366 Meter readers (4755)
368 Weighers, measurers, checkers and samplers (4756, 4757)
373 Expeditors (4758)
374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

1990
Census
code

Occupation category

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.

Administrative Support Occupations, Including Clerical—Con.

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)

Miscellaneous Administrative Support Occupations

379 General office clerks (463)
383 Bank tellers (4791)
384 Proofreaders (4792)
385 Data-entry keyers (4793)
386 Statistical clerks (4794)
387 Teachers' aides (4795)
389 Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

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 Private household cleaners and servants (502, 507, 509)

Protective Service Occupations

Supervisors, Protective Service Occupations

413 Supervisors, firefighting and fire prevention occupations (5111)
414 Supervisors, police and detectives (5112)
415 Supervisors, guards (5113)

Firefighting and Fire Prevention Occupations

416 Fire inspection and fire prevention occupations (5122)
417 Firefighting occupations (5123)

Police and Detectives

418 Police and detectives, public service (5132)
423 Sheriffs, bailiffs, and other law enforcement officers (5134)
424 Correctional institution officers (5133)

Guards

425 Crossing guards (5142)
426 Guards and police, exc. public service (5144)
427 Protective service occupations, n.e.c. (5149)

Service Occupations, Except Protective and Household

Food Preparation and Service Occupations

433 Supervisors, food preparation and service occupations (5211)
434 Bartenders (5212)
435 Waiters and waitresses (5213)
436 Cooks (5214, 5215)
438 Food counter, fountain and related occupations (5216)
439 Kitchen workers, food preparation (5217)

1990
Census
code

Occupation category

SERVICE OCCUPATIONS—Con.

Service Occupations, Except Protective and Household—Con.

443	Waiters' /waitresses' assistants (5218)
444	Miscellaneous food preparation occupations (5219)
	Health Service Occupations
445	Dental assistants (5232)
446	Health aides, except nursing (5233)
447	Nursing aides, orderlies, and attendants (5236)
	Cleaning and Building Service Occupations, except Household
448	Supervisors, cleaning and building service workers (5241)
449	Maids and housemen (5242, 5249)
453	Janitors and cleaners (5244)
454	Elevator operators (5245)
455	Pest control occupations (5246)
	Personal Service Occupations
456	Supervisors, personal service occupations (5251)
457	Barbers (5252)
458	Hairdressers and cosmetologists (5253)
459	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 (pt 5264)
467	Early childhood teacher's assistants (pt 5264)
468	Child care workers, n.e.c. (pt 5264)
469	Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

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)

Other Agricultural and Related Occupations

Farm Occupations, Except Managerial

477	Supervisors, farm workers (5611)
479	Farm workers (5612-5617)
483	Marine life cultivation workers (5618)
484	Nursery workers (5619)

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	Inspectors, agricultural products (5627)

1990
Census
code

Occupation category

FARMING, FORESTRY, AND FISHING OCCUPATIONS—Con.

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)

Fishers, Hunters, and Trappers

- 497 Captains and other officers, fishing vessels (pt 8241)
- 498 Fishers (583)
- 499 Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

Mechanics and Repairers

- 503 Supervisors, mechanics and repairers (60)

Mechanics and Repairers, Except Supervisors

Vehicle and Mobile Equipment Mechanics and Repairers

- 505 Automobile mechanics (pt 6111)
- 506 Automobile mechanic apprentices (pt 6111)
- 507 Bus, truck, and stationary engine mechanics (6112)
- 508 Aircraft engine mechanics (6113)
- 509 Small engine repairers (6114)
- 514 Automobile body and related repairers (6115)
- 515 Aircraft mechanics, exc. engine (6116)
- 516 Heavy equipment mechanics (6117)
- 517 Farm equipment mechanics (6118)
- 518 Industrial machinery repairers (613)
- 519 Machinery maintenance occupations (614)

Electrical and Electronic Equipment Repairers

- 523 Electronic repairers, communications and industrial equipment (6151, 6153, 6155)
- 525 Data processing equipment repairers (6154)
- 526 Household appliance and power tool repairers (6156)
- 527 Telephone line installers and repairers (6157)
- 529 Telephone installers and repairers (6158)
- 533 Miscellaneous electrical and electronic equipment repairers (6152, 6159)
- 534 Heating, air conditioning, and refrigeration mechanics (616)

Miscellaneous Mechanics and Repairers

- 535 Camera, watch, and musical instrument repairers (6171,6172)
- 536 Locksmiths and safe repairers (6173)
- 538 Office machine repairers (6174)
- 539 Mechanical controls and valve repairers (6175)
- 543 Elevator installers and repairers (6176)
- 544 Millwrights (6178)
- 547 Specified mechanics and repairers, n.e.c. (6177, 6179)
- 549 Not specified mechanics and repairers

Construction Trades

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)

1990
Census
code

Occupation category

**PRECISION PRODUCTION, CRAFT, AND
REPAIR OCCUPATIONS—Con.**

557 Supervisors; plumbers, pipefitters, and steamfitters (6316)
558 Supervisors, construction n.e.c. (6311, 6318)

Construction Trades, Except Supervisors

563 Brickmasons and stonemasons (pt 6412, pt 6413)
564 Brickmason and stonemason apprentices (pt 6412, pt 6413)
565 Tile setters, hard and soft (pt 6414, pt 6462)
566 Carpet installers (pt 6462)
567 Carpenters (pt 6422)
569 Carpenter apprentices (pt 6422)
573 Drywall installers (6424)
575 Electricians (pt 6432)
576 Electrician apprentices (pt 6432)
577 Electrical power installers and repairers (6433)
579 Painters, construction and maintenance (6442)
583 Paperhangers (6443)
584 Plasterers (6444)
585 Plumbers, pipefitters, and steamfitters (pt 645)
587 Plumber, pipefitter, and steamfitter apprentices (pt 645)
588 Concrete and terrazzo finishers (6463)
589 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 Construction trades, n.e.c. (6467, 6475, 6476, 6479)

Extractive Occupations

613 Supervisors, extractive occupations (632)
614 Drillers, oil well (652)
615 Explosives workers (653)
616 Mining machine operators (654)
617 Mining occupations, n.e.c. (656)

Precision Production Occupations

628 Supervisors, production occupations (67, 71)

Precision Metal Working Occupations

634 Tool and die makers (pt 6811)
635 Tool and die maker apprentices (pt 6811)
636 Precision assemblers, metal (6812)
637 Machinists (pt 6813)
639 Machinist apprentices (pt 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 Precious stones and metals workers (Jewelers) (6822, 6866)
649 Engravers, metal (6823)
653 Sheet metal workers (pt 6824)
654 Sheet metal worker apprentices (pt 6824)

CODE LIST

H-17

1990
Census
code

Occupation category

**PRECISION PRODUCTION, CRAFT, AND
REPAIR OCCUPATIONS—Con.**

655	Miscellaneous precision metal workers (6829)
	Precision Woodworking Occupations
656	Patternmakers and model makers, wood (6831)
657	Cabinet makers and bench carpenters (6832)
658	Furniture and wood finishers (6835)
659	Miscellaneous precision woodworkers (6839)
	Precision Textile, Apparel, and Furnishings Machine Workers
666	Dressmakers (pt 6852, pt 7752)
667	Tailors (pt 6852)
668	Upholsterers (6853)
669	Shoe repairers (6854)
674	Miscellaneous precision apparel and fabric workers (6856, 6859, pt 7752)
	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, pt 7477, pt 7677)
678	Dental laboratory and medical appliance technicians (6865)
679	Bookbinders (6844)
683	Electrical and electronic equipment assemblers (6867)
684	Miscellaneous precision workers, n.e.c. (6869)
	Precision Food Production Occupations
686	Butchers and meat cutters (6871)
687	Bakers (6872)
688	Food batchmakers (6873, 6879)
	Precision Inspectors, Testers, and Related Workers
689	Inspectors, testers, and graders (6881, 828)
693	Adjusters and calibrators (6882)
	Plant and System Operators
694	Water and sewage treatment plant operators (691)
695	Power plant operators (pt 693)
696	Stationary engineers (pt 693, 7668)
699	Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors

Machine Operators and Tenders, Except Precision

Metalworking 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	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713	Forging machine operators (7319, 7519)

1990
Census
code

Occupation category

OPERATORS, FABRICATORS, AND LABORERS—Con.

Machine Operators, Assemblers, and Inspectors—Con.

714	Numerical control machine operators (7326)
715	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
717	Fabricating machine operators, n.e.c. (7339, 7539)
	Metal and Plastic Processing Machine Operators
719	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)
	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	Nailing and tacking machine operators (7636)
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
	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)
	Textile, Apparel, and Furnishings Machine Operators
738	Winding and twisting machine operators (7451, 7651)
739	Knitting, looping, taping, and weaving machine operators (7452, 7652)
743	Textile cutting machine operators (7654)
744	Textile sewing machine operators (7655)
745	Shoe machine operators (7656)
747	Pressing machine operators (7657)
748	Laundering and dry cleaning machine operators (6855, 7658)
749	Miscellaneous textile machine operators (7459, 7659)
	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	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	Furnace, kiln, and oven operators, exc. food (7675)
768	Crushing and grinding machine operators (pt 7477, pt 7677)
769	Slicing and cutting machine operators (7478, 7678)
773	Motion picture projectionists (pt 7479)
774	Photographic process machine operators (6863, 6868, 7671)
777	Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
779	Machine operators, not specified

1990
Census
code

Occupation category

OPERATORS, FABRICATORS, AND LABORERS—Con.

Machine Operators, Assemblers, and Inspectors—Con.

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 Hand molding, casting, and forming occupations (7754, 7755)
789 Hand painting, coating, and decorating occupations (7756)
793 Hand engraving and printing occupations (7757)
795 Miscellaneous hand working occupations (7758, 7759)

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 Graders and sorters, exc. agricultural (785)

Transportation and Material Moving Occupations

Motor Vehicle Operators

803 Supervisors, motor vehicle operators (8111)
804 Truck drivers (8212-8214)
806 Driver-sales workers (8218)
808 Bus drivers (8215)
809 Taxicab drivers and chauffeurs (8216)
813 Parking lot attendants (874)
814 Motor transportation occupations, n.e.c. (8219)

Transportation Occupations, Except Motor Vehicles

Rail Transportation Occupations

823 Railroad conductors and yardmasters (8113)
824 Locomotive operating occupations (8232)
825 Railroad brake, signal, and switch operators (8233)
826 Rail vehicle operators, n.e.c. (8239)

Water Transportation Occupations

828 Ship captains and mates, except fishing boats (pt 8241, 8242)
829 Sailors and deckhands (8243)
833 Marine engineers (8244)
834 Bridge, lock, and lighthouse tenders (8245)

Material Moving Equipment Operators

843 Supervisors, material moving equipment operators (812)
844 Operating engineers (8312)
845 Longshore equipment operators (8313)
848 Hoist and winch operators (8314)
849 Crane and tower operators (8315)
853 Excavating and loading machine operators (8316)
855 Grader, dozer, and scraper operators (8317)
856 Industrial truck and tractor equipment operators (8318)
859 Miscellaneous material moving equipment operators (8319)

1990
Census
code

Occupation category

**OPERATORS, FABRICATORS, AND LABORERS—Con.
Handlers, Equipment Cleaners, Helpers, and Laborers**

864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
865 Helpers, mechanics and repairers (863)

Helpers, Construction and Extractive Occupations

866 Helpers, construction trades (8641-8645, 8648)
867 Helpers, surveyor (8646)
868 Helpers, extractive occupations (865)
869 Construction laborers (871)
874 Production helpers (861, 862)

Freight, Stock, and Material Handlers

875 Garbage collectors (8722)
876 Stevedores (8723)
877 Stock handlers and baggers (8724)
878 Machine feeders and offbearers (8725)
883 Freight, stock, and material handlers, n.e.c. (8726)
885 Garage and service station related occupations (873)
887 Vehicle washers and equipment cleaners (875)
888 Hand packers and packagers (8761)
889 Laborers, except construction (8769)

MILITARY OCCUPATIONS

903 Commissioned Officers and Warrant Officers
904 Non-commissioned Officers and Other Enlisted Personnel
905 Military occupation, rank not specified

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY OCCUPATION

909 Last worked 1984 or earlier



APPENDIX I. 1980-1990 Occupation Comparability List

OCCUPATION — SPLIT CATEGORIES

1980 Code and Category	1990 Code and Category
019 Managers and administrators, n.e.c.	017 Managers, food serving and lodging establishments 021 Managers, service organizations, n.e.c. 022 Managers and administrators, n.e.c.
<hr/>	
468 Child care workers, except private household	466 Family child care providers 467 Early childhood teacher's assistants 468 Child care workers, n.e.c.

OCCUPATION — MERGED CATEGORIES

349 Telegraphers 353 Communications equipment operators, n.e.c.	353 Communications equipment operators, n.e.c.
<hr/>	
368 Weighers, measurers, and checkers 369 Samplers	368 Weighers, measurers, checkers and samplers
<hr/>	
436 Cooks, except short order 437 Short-order cooks	436 Cooks
<hr/>	
673 Apparel and fabric patternmakers 674 Miscellaneous precision apparel fabric workers	674 Miscellaneous precision apparel and fabric workers
<hr/>	
794 Hand grinding and polishing occupations 795 Miscellaneous hand working occupations	795 Miscellaneous hand working occupations
<hr/>	
804 Truck drivers, heavy 805 Truck drivers, light	804 Truck drivers

OCCUPATION — TITLE CHANGED, SAME CODE

098 Inhalation therapists	098 Respiratory therapists
558 Supervisors, n.e.c.	558 Supervisors, construction, n.e.c.
734 Printing machine operators	734 Printing press operators

OCCUPATION — CODES CHANGED, TITLE SAME

017 Postmasters and mail superintendents	016 Postmasters and mail superintendents
016 Managers, properties and real estate	018 Managers, properties and real estate
018 Funeral directors	019 Funeral directors
463 Guides	461 Guides
464 Ushers	462 Ushers
465 Public transportation attendants	463 Public transportation attendants

OCCUPATION - CODES CHANGED, TITLE SAME--Con.

1980 Code and Category		1990 Code and Category	
466	Baggage porters and bellhops	464	Baggage porters and bellhops
467	Welfare service aides	465	Welfare service aides
633	Supervisors, production occupations	628	Supervisors, production occupations
863	Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	864	Supervisors, handlers, equipment cleaners, and laborers, n.e.c.
864	Helpers, mechanics and repairers	865	Helpers, mechanics, and repairers
865	Helpers, construction trades	866	Helpers, construction trades
866	Helpers, surveyor	867	Helpers, surveyor
867	Helpers, extractive occupations	868	Helpers, extractive occupations
873	Production helpers	874	Production helpers