

Employment probability analysis project. Selected occupational characteristics data for 1970 census occupational titles: Data, people, things, GED, and SVP occupation level

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EMPLOYMENT PROBABILITY ANALYSIS PROJECT
SELECTED OCCUPATIONAL CHARACTERISTICS DATA
FOR 1970 CENSUS OCCUPATIONAL TITLES:
DATA, PEOPLE, THINGS, GED, AND SVP
OCCUPATION LEVEL

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This booklet contains selected occupation characteristics data for about 580 Census-coded occupation titles (1970 classification). These data were prepared by Lloyd V. Temme, "Occupation: Meanings and Measures,"¹ Table "DOT and Prestige Scores for All Occupations -- 1970," pp. 293-333. Some of these occupation characteristics are being used in research currently underway at the Social Welfare Regional Research Institute, Boston College.

The occupation data presented in Table 4, below, are based on information contained in the Department of Labor's Dictionary of Occupational Titles (DOT). The DOT presents, in several volumes, job definitions and selected job characteristics for over 22,000 specific job titles. The five DOT characteristics for Census occupational titles presented here: Data (D), People (P), Things (T), General Educational Development (GED), and Specific Vocational Preparation (SVP), are weighted averages of the interval-scale data provided for DOT job titles. A special edition of the Current Population Survey (CPS, April 1971) provided the linkages and weights used in the conversion from DOT to Census occupational titles.

Appendix A (from DOT, Volume II, 1965²) explains the first three job characteristics, D, P, and T. Appendix B shows the scale values and definitions of the GED measure. Appendix C details the last measure, SVP.

The aggregation of these job characteristics data from the DOT to Census classifications involved three steps:³

(1) The April 1971 CPS coded each respondent's occupation according to the 1970 3-digit Census code for occupation (see Table 1).

¹Bureau of Social Sciences Research, Inc., Washington D.C., June 1975

²Dictionary of Occupational Titles, Volume II, 1965, Third Edition, U. S. Department of Labor, Manpower Administration, Bureau of Employment Security.

³See Temme, op. cit., for a detailed explanation of the aggregation method.

(2) The United States Employment Service coded each individual's occupation according to the 9-digit DOT code for occupation. DOT data for D, P, T, GED, and SVP were then merged onto the CPS file based on the DOT occupation code.

(3) The data for specific DOT job titles were aggregated to the level of precision in the 1970 Census classifications, using the "person weight" provided in the CPS sample.

Data shown in Table 4, then, should be interpreted as suggesting a "direction" or "degree" of correspondence with one of the interval scales for each of the five DOT measures; these data do not represent a metric scale.

Table 4 also includes a classification variable, the Occupation Level, O_L, of each Census occupation. This variable is based on specific intervals of the GED and SVP scores. Roughly, the lowest occupation level corresponds to low GED and low SVP and the highest occupation level corresponds to high GED and high SVP. Table 3 presents the seventeen (17) occupation levels appearing in Table 4. These occupation levels are used to aggregate different 3-digit occupation subsets which have similar job training requirements. They are not constrained to follow major occupation divisions in the 1970 Census classification system. Table 2 provides a list of industries appearing in Table 4.

The Social Welfare Regional Research Institute takes no responsibility for errors in the original research paper by Temme nor for errors in transcription.⁴ Caveat utendus. For further information, contact Dr. Lynn B. Ware, Senior Research Associate, Social Welfare Regional Research Institute, Boston College, Chestnut Hill, Massachusetts, 02167.

⁴Temme's table was a Xerox of computer output and some entries were virtually unreadable. Most attention was paid to GED and SVP scores, least attention to his derived measures of "self-direction" and "prestige." Unreadable entries were checked against similar data for 1960 Census occupation titles also provided by Temme. The DOT supplement was consulted directly to provide guidance in at least three instances.

Table 1: 1970 Census of Population -- Occupation Classification System

Occu- pation Code	PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS	Occu- pation Code	PROFESSIONAL, TECHNICAL, AND KINDR WORKERS--Continued
001	Accountants		Nurses, dietitians, and therapists
002	Architects	074	Dietitians
	Computer specialists	075	Registered nurses
003	Computer programmers	076	Therapists
004	Computer systems analysts		Health technologists and technicians
005	Computer specialists, n.e.c.	080	Clinical laboratory technologists and
	Engineers	081	Dental hygienists
006	Aeronautical and astronautical engineers	082	Health record technologists and technicians
010	Chemical engineers	083	Radiologic technologists and technicians
011	Civil engineers	084	Therapy assistants
012	Electrical and electronic engineers	085	Health technologists and technicians, n.e.c.
013	Industrial engineers		Religious workers
014	Mechanical engineers	086	Clergymen
015	Metallurgical and materials engineers	090	Religious workers, n.e.c.
020	Mining engineers		Social scientists
021	Petroleum engineers	091	Economists
022	Sales engineers	092	Political scientists
023	Engineers, n.e.c.	093	Psychologists
024	Farm management advisors	094	Sociologists
025	Foresters and conservationists	095	Urban and regional planners
026	Home management advisors	096	Social scientists, n.e.c.
	Lawyers and judges		Social and recreation workers
030	Judges	100	Social workers
031	Lawyers	101	Recreation workers
	Librarians, archivists, and curators		Teachers, college and university
032	Librarians	102	Agriculture teachers
033	Archivists and curators	103	Atmospheric, earth, marine, and space
	Mathematical specialists	104	Biology teachers
034	Actuaries	105	Chemistry teachers
035	Mathematicians	110	Physics teachers
036	Statisticians	111	Engineering teachers
	Life and physical scientists	112	Mathematics teachers
042	Agricultural scientists	113	Health specialties teachers
043	Atmospheric and space scientists	114	Psychology teachers
044	Biological scientists	115	Business and commerce teachers
045	Chemists	116	Economics teachers
051	Geologists	120	History teachers
052	Marine scientists	121	Sociology teachers
053	Physicists and astronomers	122	Social science teachers, n.e.c.
054	Life and physical scientists, n.e.c.	123	Art, drama, and music teachers
055	Operations and systems researchers and analysts	124	Coaches and physical education teachers
056	Personnel and labor relations workers	125	Education teachers
	Physicians, dentists, and related practitioners	126	English teachers
061	Chiropractors	130	Foreign language teachers
062	Dentists	131	Home economics teachers
063	Optometrists	132	Law teachers
064	Pharmacists	133	Theology teachers
065	Physicians, medical and osteopathic	134	Trade, industrial, and technical
071	Podiatrists	135	Miscellaneous teachers, college and
072	Veterinarians	140	Teachers, college and university
*073	Health practitioners, n.e.c.		specified

Occupation Code	PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS—Continued	Occupation Code	MANAGERS AND ADMINISTRATORS, FARM—Continued
	Teachers, except college and university	225	Purchasing agents and buyers, n.e.c.
141	Adult education teachers	226	Railroad conductors
142	Elementary school teachers	230	Restaurant, cafeteria, and bar managers
143	Prekindergarten and kindergarten teachers	231	Sales managers and department heads, retail trade
144	Secondary school teachers	233	Sales managers, except retail trade
145	Teachers, except college and university, n.e.c.	235	School administrators, college
	Engineering and science technicians	240	School administrators, elementary and secondary
150	Agriculture and biological technicians, except health	245	Managers and administrators, n.e.c.
151	Chemical technicians		
152	Draftsmen		
153	Electrical and electronic engineering technicians		
154	Industrial engineering technicians		
155	Mechanical engineering technicians		
156	Mathematical technicians		
161	Surveyors		
162	Engineering and science technicians, n.e.c.	260	Advertising agents and salesmen
	Technicians, except health, and engineering and science	261	Auctioneers
163	Airplane pilots	262	Demonstrators
164	Air traffic controllers	264	Hucksters and peddlers
165	Embalmers	265	Insurance agents, brokers, and underwriters
170	Flight engineers	266	Newsboys
171	Radio operators	270	Real estate agents and brokers
172	Tool programmers, numerical control	271	Stock and bond salesmen
173	Technicians, n.e.c.	281	Sales representatives, manufacturing industries 107-399)
174	Vocational and educational counselors	282	Sales representatives, wholesale trade (Ind. 01 507-599)
	Writers, artists, and entertainers	283	Sales clerks, retail trade (Ind. 608-699 except 639, 649, 667, 668, 688)
175	Actors	284	Salesmen, retail trade (Ind. 607, 618, 639, 649, 668, 688)
180	Athletes and kindred workers	285	Salesmen of services and construction (Ind. 407-499, 707-947)
181	Authors		
182	Dancers		
183	Designers		
184	Editors and reporters		
185	Musicians and composers		
190	Painters and sculptors		
191	Photographers		
192	Public relations men and publicity writers		
193	Radio and television announcers		
194	Writers, artists, and entertainers, n.e.c.		
195	Research workers, not specified		
	MANAGERS AND ADMINISTRATORS, EXCEPT FARM		CLERICAL AND KINDRED WORKERS
201	Assessors, controllers, and treasurers; local public administration	301	Bank tellers
202	Bank officers and financial managers	303	Billing clerks
203	Buyers and shippers, farm products	305	Bookkeepers
205	Buyers, wholesale and retail trade	310	Cashiers
210	Credit men	311	Clerical assistants, social welfare
211	Funeral directors	312	Clerical supervisors, n.e.c.
212	Health administrators	313	Collectors, bill and account
213	Construction inspectors, public administration	314	Counter clerks, except food
215	Inspectors, except construction, public administration	315	Dispatchers and starters, vehicle
216	Managers and superintendents, building	320	Enumerators and interviewers
220	Office managers, n.e.c.	321	Estimators and investigators, n.e.c.
221	Officers, pilots, and pursers; ship	323	Expeditors and production controllers
222	Officials and administrators; public administration, n.e.c.	325	File clerks
223	Officials of lodges, societies, and unions	326	Insurance adjusters, examiners, and investigators
224	Postmasters and mail superintendents	330	Library attendants and assistants
		331	Mail carriers, post office
		332	Mail handlers, except post office
		333	Messengers and office boys
		334	Meter readers, utilities
			Office machine operators
		341	Bookkeeping and billing machine operators
		342	Calculating machine operators
		343	Computer and peripheral equipment operators
		344	Duplicating machine operators

Occupation Code	CLERICAL AND KINDRED WORKERS—Continued	Occupation Code	CRAFTSMEN AND KINDRED WORKERS—Continued
	Office machine operators—Continued		
345	Key punch operators	453	Jewelers and watchmakers
350	Tabulating machine operators	454	Job and die setters, metal
355	Office machine operators, n.e.c.	455	Locomotive engineers
360	Payroll and timekeeping clerks	456	Locomotive firemen
361	Postal clerks	461	Machinists
362	Proofreaders	462	Machinist apprentices
363	Real estate appraisers		Mechanics and repairmen
364	Receptionists	470	Air conditioning, heating, and refrigeration
	Secretaries	471	Aircraft
370	Secretaries, legal	472	Automobile body repairmen
371	Secretaries, medical	473	Automobile mechanics
372	Secretaries, n.e.c.	474	Automobile mechanic apprentices
374	Shipping and receiving clerks	475	Data processing machine repairmen
375	Statistical clerks	480	Farm implement
376	Stenographers	481	Heavy equipment mechanics, incl. diesel
381	Stock clerks and storekeepers	482	Household appliance and accessory installers
382	Teacher aides, exc. school monitors		mechanics
383	Telegraph messengers	483	Loom fixers
384	Telegraph operators	484	Office machine
385	Telephone operators	485	Radio and television
390	Ticket, station, and express agents	486	Railroad and car shop
391	Typists	491	Mechanic, exc. auto, apprentices
392	Weighers	492	Miscellaneous mechanics and repairmen
394	Miscellaneous clerical workers	495	Not specified mechanics and repairmen
395	Not specified clerical workers	501	Millers; grain, flour, and feed
	CRAFTSMEN AND KINDRED WORKERS	502	Millwrights
401	Automobile accessories installers	503	Molders, metal
402	Bakers	504	Molder apprentices
403	Blacksmiths	505	Motion picture projectionists
404	Boilermakers	506	Opticians, and lens grinders and polishers
405	Bookbinders	510	Painters, construction and maintenance
410	Brickmasons and stonemasons	511	Painter apprentices
411	Brickmasons and stonemasons, apprentices	512	Paperhangers
412	Bulldozer operators	514	Pattern and model makers, exc. paper
413	Cabinetmakers	515	Photoengravers and lithographers
415	Carpenters	516	Piano and organ tuners and repairmen
416	Carpenter apprentices	520	Plasterers
420	Carpet installers	521	Plasterer apprentices
421	Cement and concrete finishers	522	Plumbers and pipe fitters
422	Compositors and typesetters	523	Plumber and pipe fitter apprentices
423	Printing trades apprentices, exc. pressmen	525	Power station operators
424	Cranemen, derrickmen, and hoistmen	530	Pressmen and plate printers, printing
425	Decorators and window dressers	531	Pressman apprentices
426	Dental laboratory technicians	533	Rollers and finishers, metal
430	Electricians	534	Roofers and slaters
431	Electrician apprentices	535	Sheetmetal workers and tinsmiths
433	Electric power linemen and cablemen	536	Sheetmetal apprentices
434	Electrotypers and stereotypers	540	Shipfitters
435	Engravers, exc. photoengravers	542	Shoe repairmen
436	Excavating, grading, and road machine operators; exc. bulldozer	543	Sign painters and letterers
440	Floor layers, exc. tile setters	545	Stationary engineers
441	Foremen, n.e.c.	546	Stone cutters and stone carvers
442	Forgemen and hammermen	550	Structural metal craftsmen
443	Furniture and wood finishers	551	Tailors
444	Furriers	552	Telephone installers and repairmen
445	Glaziers	554	Telephone linemen and splicers
446	Heat treaters, annealers, and temperers	560	Tile setters
450	Inspectors, scalers, and graders; log and lumber	561	Tool and die makers
452	Inspectors, n.e.c.	562	Tool and die maker apprentices
		563	Upholsterers
		571	Specified craft apprentices, n.e.c.
		572	Not specified apprentices

Occupation Code	CRAFTSMEN AND KINDRED WORKERS— Continued	Code	RT EQUIPMENT OPERATIVES
575	Craftsmen and kindred workers, n.e.c.	701	Boatmen and canalmen
580	Former members of the Armed Forces	703	Bus drivers
		704	Conductors and motormen, urban rail transit
		705	Deliverymen and routemen
		706	Fork lift and tow motor operatives
		710	Motormen; mine, factory, logging camp, etc.
		711	Parking attendants
		712	Railroad brakemen
		713	Railroad switchmen
		714	Taxicab drivers and chauffeurs
		715	Truck drivers
	OPERATIVES, EXCEPT TRANSPORT		
601	Asbestos and insulation workers		
602	Assemblers		
603	Blasters and powdermen		
604	Bottling and canning operatives		
605	Chainmen, rodmen, and axmen; surveying		
610	Checkers, examiners, and inspectors; manufacturing		
611	Clothing ironers and pressers		
612	Cutting operatives, n.e.c.		
613	Dressmakers and seamstresses, except factory		
614	Drillers, earth		
615	Dry wall installers and lathers		
620	Dyers		
621	Filers, polishers, sanders, and buffers		
622	Furnacemen, smeltermen, and pourers		
623	Garage workers and gas station attendants		
624	Graders and sorters, manufacturing		
625	Produce graders and packers, except factory and farm		
626	Heaters, metal		
630	Laundry and dry cleaning operatives, n.e.c.		
631	Meat cutters and butchers, exc. manufacturing		
633	Meat cutters and butchers, manufacturing		
634	Meat wrappers, retail trade		
635	Metal platers		
636	Milliners		
640	Mine operatives, n.e.c.		
641	Mixing operatives		
642	Oilers and greasers, exc. auto		
643	Packers and wrappers, except meat and produce		
644	Painters, manufactured articles		
645	Photographic process workers		
	Precision machine operatives		
650	Drill press operatives		
651	Grinding machine operatives		
652	Lathe and milling machine operatives		
653	Precision machine operatives, n.e.c.		
656	Punch and stamping press operatives		
660	Riveters and fasteners		
661	Sailors and deckhands		
662	Sawyers		
663	Sewers and stitchers		
664	Shoemaking machine operatives		
665	Solderers		
666	Stationary firemen		
	Textile operatives		
670	Carding, lapping, and combing operatives		
671	Knitters, loopers, and toppers		
672	Spinners, twisters, and winders		
673	Weavers		
674	Textile operatives, n.e.c.		
680	Welders and flame-cutters		
681	Winding operatives, n.e.c.		
690	Machine operatives, miscellaneous specified		
692	Machine operatives, not specified		
694	Miscellaneous operatives		
695	Not specified operatives		
			LABORERS, EXCEPT FARM
		740	Animal caretakers, exc. farm
		750	Carpenters' helpers
		751	Construction laborers, exc. carpenters' helpers
		752	Fishermen and oystermen
		753	Freight and material handlers
		754	Garbage collectors
		755	Gardeners and groundskeepers, exc. farm
		760	Longshoremen and stevedores
		761	Lumbermen, raftsmen, and woodchoppers
		762	Stock handlers
		763	Teamsters
		764	Vehicle washers and equipment cleaners
		770	Warehousemen, n.e.c.
		780	Miscellaneous laborers
		785	Not specified laborers
			FARMERS AND FARM MANAGERS
		801	Farmers (owners and tenants)
		802	Farm managers
			FARM LABORERS AND FARM FOREMEN
		821	Farm foremen
		822	Farm laborers, wage workers
		823	Farm laborers, unpaid family workers
		824	Farm service laborers, self-employed
			SERVICE WORKERS, EXC. PRIVATE HOUSEHOLD
			Cleaning service workers
		901	Chambermaids and maids, except private
		902	Cleaners and charwomen
		903	Janitors and sextons
			Food service workers
		910	Bartenders
		911	Busboys
		912	Cooks, except private household
		913	Dishwashers
		914	Food counter and fountain workers
		915	Waiters
		916	Food service workers, n.e.c., except household

Occu- pation Code	SERVICE WORKERS, EXC. PRIVATE HOUSEHOLD—Continued	Occu- pation Code	PRIVATE HOUSEHOLD WORK
	Health service workers	980	Child care workers, private household
921	Dental assistants	981	Cooks, private household
922	Health aides, exc. nursing	982	Housekeepers, private household
923	Health trainees	983	Laundresses, private household
924	Lay midwives	984	Maids and servants, private household
925	Nursing aides, orderlies, and attendants		
926	Practical nurses		
	Personal service workers		
931	Airline stewardesses		
932	Attendants, recreation and amusement		
933	Attendants, personal service, n.e.c.		
934	Baggage porters and bellhops		
935	Barbers		
940	Boarding and lodging house keepers		
941	Bootblacks		
942	Child care workers, exc. private household		
943	Elevator operators		
944	Hairdressers and cosmetologists		
945	Personal service apprentices		
950	Housekeepers, exc. private household		
952	School monitors		
953	Ushers, recreation and amusement		
954	Welfare service aides		
	Protective service workers		
960	Crossing guards and bridge tenders		
961	Firemen, fire protection		
962	Guards and watchmen		
963	Marshals and constables		
964	Policemen and detectives		
965	Sheriffs and bailiffs		

Table 2: 1970 Census of Population -- Industrial Classification System

Industry Code	AGRICULTURE, FORESTRY, AND FISHERIES	Industry Code	MANUFACTURING--Continued
017	Agricultural production (01)	168	Miscellaneous fabricated metal products (341, 343, 347, 348, 349)
018	Agricultural services, except horticultural (07 except 0713 and 073)	169	Not specified metal industries
019	Horticultural services (073)		Machinery, except electrical
027	Forestry (08)	177	Engines and turbines (351)
028	Fisheries (09)	178	Farm machinery and equipment (352)
		179	Construction and material handling machines (353)
	MINING	187	Metalworking machinery (354)
047	Metal mining (10)	188	Office and accounting machines (357 except 3573)
048	Coal mining (11, 12)	189	Electronic computing equipment (3573)
049	Crude petroleum and natural gas extractions (13)	197	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
057	Nonmetallic mining and quarrying, except fuel (14)	198	Not specified machinery
			Electrical machinery, equipment, and supplies
	CONSTRUCTION	199	Household appliances (363)
067	General building contractors (15)	207	Radio, T.V., and communication equipment (365, 366)
068	General contractors, except building (16)	208	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
069	Special trade contractors (17)	209	Not specified electrical machinery, equipment, and supplies
077	Not specified construction		Transportation equipment
	MANUFACTURING	219	Motor vehicles and motor vehicle equipment (371)
	<u>Durable goods</u>	227	Aircraft and parts (372)
	Lumber and wood products, except furniture	228	Ship and boat building and repairing (373)
107	Logging (241)	229	Railroad locomotives and equipment (374)
108	Sawmills, planing mills, and mill work (242, 243)	237	Mobile dwellings and campers (3791)
109	Miscellaneous wood products (244, 249)	238	Cycles and miscellaneous transportation equipment (375, 3799)
118	Furniture and fixtures (25)		Professional and photographic equipment, and watches
	Stone, clay, and glass products	239	Scientific and controlling instruments (381, 382)
119	Glass and glass products (321-323)	247	Optical and health services supplies (383, 384, 385)
127	Cement, concrete, gypsum, and plaster products (324, 327)	248	Photographic equipment and supplies (386)
128	Structural clay products (325)	249	Watches, clocks, and clockwork-operated devices (387)
137	Pottery and related products (326)	257	Not specified professional equipment
138	Miscellaneous nonmetallic mineral and stone products (328, 329)	258	Ordnance (19)
	Metal industries	259	Miscellaneous manufacturing industries (39)
139	Blast furnaces, steel works, rolling and finishing mills (3312, 3313)		<u>Nondurable goods</u>
147	Other primary iron and steel industries (3315-3317, 332, 3391, part 3399)		Food and kindred products
148	Primary aluminum industries (3334, part 334, 3352, 3361, part 3392, part 3399)	268	Meat products (201)
149	Other primary nonferrous industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, part 3392, part 3399)	269	Dairy products (202)
157	Cutlery, hand tools, and other hardware (342)	278	Canning and preserving fruits, vegetables, and sea foods (203)
158	Fabricated structural metal products (344)	279	Grain-mill products (204, 0713)
159	Screw machine products (345)	287	Bakery products (205)
167	Metal stamping (346)	288	Confectionery and related products (207)

Industry Code	MANUFACTURING—Continued
289	Beverage industries (208)
297	Miscellaneous food preparation and kindred products (206, 209)
298	Not specified food industries
299	Tobacco manufactures (21)
	Textile mill products
307	Knitting mills (225)
308	Dyeing and finishing textiles, except wool and knit goods (226)
309	Floor coverings, except hard surface (227)
317	Yarn, thread, and fabric mills (221-224, 228)
318	Miscellaneous textile mill products (229)
	Apparel and other fabricated textile products
319	Apparel and accessories (231-238)
327	Miscellaneous fabricated textile products (239)
	Paper and allied products
328	Pulp, paper, and paperboard mills (261-263, 266)
329	Miscellaneous paper and pulp products (264)
337	Paperboard containers and boxes (265)
	Printing, publishing, and allied industries
338	Newspaper publishing and printing (271)
339	Printing, publishing, and allied industries, except newspapers (272-279)
	Chemicals and allied products
347	Industrial chemicals (281)
348	Plastics, synthetics and resins, except fibers (282, except 2823 and 2824)
349	Synthetic fibers (2823, 2824)
357	Drugs and medicines (283)
358	Soaps and cosmetics (284)
359	Paints, varnishes, and related products (285)
367	Agricultural chemicals (287)
368	Miscellaneous chemicals (286, 289)
369	Not specified chemicals and allied products
	Petroleum and coal products
377	Petroleum refining (291)
378	Miscellaneous petroleum and coal products (295, 299)
	Rubber and miscellaneous plastic products
379	Rubber products (301-303, 306)
387	Miscellaneous plastic products (307)
	Leather and leather products
388	Tanned, curried, and finished leather (311)
389	Footwear, except rubber (313, 314)
397	Leather products, except footwear (312, 315-317, 319)
398	Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

Transportation

407	Railroads and railway express service (40)
408	Street railways and bus lines (411, 413-415, 417)
409	Taxicab service (412)
417	Trucking service (421, 423)
418	Warehousing and storage (422)
419	Water transportation (44)
427	Air transportation (45)
428	Pipe lines, except natural gas (46)
429	Services incidental to transportation (47)

TRANSPORTATION, COMMUNICATIONS, OTHER PUBLIC UTILITIES—Continued

Communications

447	Radio broadcasting and television (483)
448	Telephone (wire and radio) (481)
449	Telegraph and miscellaneous services (482, 489)

Utilities and sanitary services

467	Electric light and power (491)
468	Electric-gas utilities (493)
469	Gas and steam supply systems (492, 496)
477	Water supply (494)
478	Sanitary services (495)
479	Other and not specified utilities (497)

WHOLESALE AND RETAIL TRADE

Wholesale trade

507	Motor vehicles and equipment (501)
508	Drugs, chemicals, and allied products (502)
509	Dry goods and apparel (503)
527	Food and related products (504)
528	Farm products—raw materials (505)
529	Electrical goods (506)
537	Hardware, plumbing, and heating supplies (507)
538	Not specified electrical and hardware products
539	Machinery equipment and supplies (508)
557	Metals and minerals, n.e.c. (5091)
558	Petroleum products (5092)
559	Scrap and waste materials (5093)
567	Alcoholic beverages (5095)
568	Paper and its products (5096)
569	Lumber and construction materials (5098)
587	Wholesalers, n.e.c. (5094, 5097, 5099)
588	Not specified wholesale trade

Retail trade

607	Lumber and building material retailing
608	Hardware and farm equipment stores (525)
609	Department and mail order establishments
617	Limited price variety stores (533)
618	Vending machine operators (534)
619	Direct selling establishments (535)
627	Miscellaneous general merchandise stores (539)
628	Grocery stores (541)
629	Dairy products stores (545)
637	Retail bakeries (546)
638	Food stores, n.e.c. (542-544, 549)
639	Motor vehicle dealers (551, 552)
647	Tire, battery, and accessory dealers (553)
648	Gasoline service stations (554)
649	Miscellaneous vehicle dealers (559)
657	Apparel and accessories stores, except shoe except 566)
658	Shoe stores (566)
667	Furniture and home furnishings stores (571)
668	Household appliances, TV, and radio (573)
669	Eating and drinking places (58)
677	Drug stores (591)

**Industry
Code WHOLESALE AND RETAIL TRADE—Continued**

Retail trade—Continued

678 Liquor stores (592)
679 Farm and garden supply stores (596)
687 Jewelry stores (597)
688 Fuel and ice dealers (598)
689 Retail florists (5992)
697 Miscellaneous retail stores (593-595, 599 exc. 5992)
698 Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

707 Banking (60)
708 Credit agencies (61)
709 Security, commodity brokerage, and investment
 companies (62, 67)
717 Insurance (63, 64)
718 Real estate, incl. real estate-insurance-law offices (65,
 66)

BUSINESS AND REPAIR SERVICES

727 Advertising (731)
728 Services to dwellings and other buildings (734)
729 Commercial research, development, and testing labs
 (7391, 7397)
737 Employment and temporary help agencies (736,
 7398)
738 Business management and consulting services (part
 7392)
739 Computer programing services (part 7392)
747 Detective and protective services (7393)
748 Business services, n.e.c. (732, 733, 735, 7394, 7395,
 7396, 7399)
749 Automobile services, except repair (751, 752, 754)
757 Automobile repair and related services (753)
758 Electrical repair shops (762, 7694)
759 Miscellaneous repair services (763, 764, 769, except
 7694)

PERSONAL SERVICES

769¹ Private households (88)
777 Hotels and motels (701)
778 Lodging places, except hotels and motels (702, 703,
 704)
779 Laundering, cleaning, and other garment services
 (721, 727)
787 Beauty shops (723)
788 Barber shops (724)
789 Shoe repair shops (725)
797 Dressmaking shops (part 729)
798 Miscellaneous personal services (722, 726, part 729)

ENTERTAINMENT AND RECREATION SERVICES

807 Theaters and motion pictures (78, 792)
808 Bowling alleys, billiard and pool parlors (793)
809 Miscellaneous entertainment and recreation services
 (791, 794)

**Industry
Code PROFESSIONAL AND RELATED SERVICES**

828 Offices of physicians (801, 803)
829 Offices of dentists (802)
837 Offices of chiropractors (804)
838 Hospitals (806)
839 Convalescent institutions (8092)
847 Offices of health practitioners, n.e.c. (part 8099)
848 Health services, n.e.c. (807, part 8099)
849 Legal services (81)
857 Elementary and secondary schools (821)
858 Colleges and universities (822)
859 Libraries (823)
867 Educational services, n.e.c. (824, 829)
868 Not specified educational services
869 Museums, art galleries, and zoos (84)
877 Religious organizations (866)
878 Welfare services (part 867)
879 Residential welfare facilities (part 867)
887 Nonprofit membership organizations (861-865, 869)
888 Engineering and architectural services (891)
889 Accounting, auditing, and bookkeeping services (893)
897 Miscellaneous professional and related services (892,
 899)

PUBLIC ADMINISTRATION

907 Postal service (part 9190)
917 Federal public administration (part 9190, 9490)
927 State public administration (9290)
937 Local public administration (9390)

Table 3: "Occupation Levels" Based on GED and SVP Scores

Occupation Level	GED Range	SVP Range
1	1.5-2.4	1.8-2.4
2	1.5-2.4	2.5-3.4
3	1.5-2.4	3.5-4.8
4	2.5-3.4	2.0-2.4
5	2.5-3.4	2.5-3.4
6	2.5-3.4	3.5-4.4
7	2.5-3.4	4.5-5.4
8	2.5-3.4	5.5-6.4
9	2.5-3.4	6.5-8.0
10	3.5-4.4	3.0-4.4
11	3.5-4.4	4.5-5.4
12	3.5-4.4	5.5-6.4
13	3.5-4.4	6.5-7.4
14	3.5-4.4	7.5-8.0
15	4.5-5.4	6.0-7.4
16	4.5-5.4	7.5-8.0
17	5.5-6.0	7.0-8.2

See Barry Bluestone, "The Personal Earnings Distribution: Individual and Institutional Determinants," SWRRI Publication # 20, November 1974.

Table 4: Selected Occupational Characteristics -- By 1970 Census
Occupational Codes

<u>Major Occupational Class</u>	<u>Census Codes</u>
(01) Professional, Technical, and Kindred Workers	001 - 195
(02) Managers and Administrators, Except Farm	201 - 245
(03) Sales Workers	260 - 285
(04) Clerical and Kindred Workers	301 - 395
(05) Craftsmen and Kindred Workers	401 - 575
(06) Operatives, Except Transport	601 - 695
(07) Transport Equipment Operatives	701 - 715
(08) Laborers, Except Farm	740 - 785
(09) Private Household Workers	980 - 984
(10) Service Workers, Excluding Private Household	901 - 965
(11) Farmers and Farm Managers	801 - 802
(12) Farm Laborers and Farm Foremen	821 - 824

NOTATION USED IN TABLE 4.

- OCC: 3-digit Census code for occupation (1970 classification)
- O_L: Occupation level (Table 3)
- D: Data hierarchy
- P: People hierarchy
- T: Things hierarchy
- GED: General Educational Development
- SVP: Specific Vocational Preparation
- S-DIR: "Self-direction measure" (See Temme)*
- PREST: "Prestige measure" (See Temme)*
- IN IND: For occupations listed as "not elsewhere classified," not specified," etc., occupation characteristics are also given depending on industry association in the April 1971 CPS. (see Table 2 for 1970 Census industry classification)
- S/S: For managers n.e.c., occupation characteristics are given depending on whether an individual was salaried (1) or self-employed (2) in the April 1971 CPS.
- INA: When occupation characteristics data were not available in Temme for a given Census occupation code, INA is entered under the IN IND column and all data are coded zero.

Major occupation headings are given in the 1973-75 Current Population Survey, Annual Demographic File Codebook, variable PP185-186.

*These data are included only to complete Temme's Table, pp. 293-333.

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 1

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND	S/S
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(01) PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS

001	15	1.42	7.69	7.98	4.76	7.29	17.49	60.60		
002	17	0.25	7.96	1.40	5.79	7.88	15.33	70.90		
003	15	1.16	7.80	7.70	5.10	7.04	17.73	62.50		
004	15	0.96	6.80	7.74	5.29	7.10	18.99	66.00		
005	17	0.75	4.23	8.00	5.48	7.23	22.19	65.30		
006	17	0.35	7.72	1.88	5.56	7.84	15.21	69.00		
010	17	0.65	7.69	1.96	5.70	7.77	15.19	69.70		
011	16	0.23	7.89	1.36	4.97	7.85	13.53	62.60		
012	17	0.41	7.78	2.00	5.67	7.82	15.06	67.90		
013	15	0.89	7.64	6.82	5.21	7.34	17.62	64.10		
014	17	0.30	7.67	1.42	5.64	7.79	15.07	67.10		
015	17	0.22	7.78	2.52	5.67	7.67	16.07	68.40		
020	16	0.00	8.00	1.00	5.33	8.00	14.22	64.50		
021	16	0.12	7.75	2.74	5.38	7.88	15.80	67.00		
022	15	1.40	5.06	5.20	4.94	7.02	17.56	62.00		
023	16	0.46	7.68	2.65	5.47	7.64	15.45	66.00		
024	15	1.12	1.68	8.00	5.00	6.88	22.66	60.80		
025	12	2.75	7.64	4.53	4.03	5.50	9.62	45.30		
026	15	1.61	2.82	8.00	4.60	6.18	20.27	61.90		
030	17	1.00	0.00	8.00	6.00	8.20	26.62	78.00		
031	17	1.05	0.54	8.00	5.92	7.92	25.97	76.40		
032	15	1.46	5.94	7.99	4.88	6.39	18.62	63.70		
033	15	1.79	5.29	6.20	4.73	6.98	17.42	36.40		
034	15	1.14	8.00	8.00	5.00	7.14	17.96	68.90		
035	17	0.34	8.00	8.00	5.83	7.68	20.58	74.70		
036	15	0.83	8.00	8.00	5.07	6.86	18.16	64.10		
042	15	1.67	6.44	3.65	4.91	6.72	14.38	58.50		
043	15	0.63	8.00	8.00	5.00	6.69	18.18	65.20		
044	17	0.38	8.00	1.00	5.67	7.62	14.53	68.00		
045	17	0.38	7.92	1.24	5.75	7.79	14.98	68.10		
051	17	0.00	8.00	1.00	6.00	8.00	15.67	71.80		
052	17	0.00	8.00	1.00	6.00	8.00	15.67	71.30		
053	17	0.00	7.67	2.01	6.00	8.00	16.74	73.60		
054	17	0.00	8.00	8.00	6.00	7.00	20.94	74.20		
055	15	1.30	6.66	7.55	4.96	6.84	18.13	59.50		
056	15	1.42	3.83	8.00	4.86	6.61	20.40	58.30		
061	15	1.00	0.00	8.00	5.00	7.00	24.07	61.80		
062	17	1.03	0.42	7.62	5.93	7.93	25.80	76.70		
063	15	1.00	0.00	8.00	5.00	7.00	24.07	67.00		
064	15	0.99	7.80	1.71	4.93	7.03	12.95	61.40		
065	17	1.03	0.62	6.85	5.92	7.93	24.99	88.40		
071	15	1.00	0.73	8.00	4.88	7.00	23.25	64.70		
072	16	1.11	2.75	5.93	5.13	7.67	28.65	68.80		
073	15	1.00	0.00	8.00	5.00	7.00	18.82	61.40		
074	13	1.04	6.08	7.70	4.00	6.85	17.00	47.20		
075	13	2.88	6.44	7.99	4.19	6.91	15.95	53.80		
076	13	2.50	4.35	8.00	4.28	6.56	17.90	56.00		
080	12	2.63	7.85	1.57	4.47	5.63	9.95	52.40		
081	12	3.00	6.25	7.41	4.00	6.17	14.84	53.30		

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 2

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN	IND	S/S
082	12	2.36	7.36	8.00	4.41	6.32	15.92	55.50			
083	12	2.95	6.32	6.51	4.03	5.71	13.99	47.10			
084	7	3.00	6.00	8.00	3.00	5.00	16.82	37.20			
085	12	3.01	6.32	6.66	4.04	5.79	13.81	46.70			
086	17	1.05	0.06	7.97	5.97	7.96	26.41	59.60			
090	16	1.68	1.44	8.00	5.39	7.67	23.48	53.90			
091	15	0.90	6.46	7.47	5.25	6.88	19.23	68.20			
092	15	1.00	4.40	8.00	5.06	6.43	20.64	66.80			
093	17	1.07	1.89	7.80	5.88	7.85	24.65	73.00			
094	17	2.00	2.00	8.00	6.00	8.00	24.34	71.10			
095	16	1.03	6.80	6.69	5.19	7.79	18.55	67.60			
096	17	0.43	7.15	8.00	5.57	7.14	20.37	69.00			
100	15	1.13	0.73	7.98	5.04	6.96	23.45	60.70			
101	15	1.35	2.62	8.00	5.25	7.28	22.46	51.90			
102	17	2.00	2.00	8.00	6.00	8.00	24.34	72.10			
103	17	1.34	3.99	5.68	6.00	8.00	21.47	71.40			
104	17	2.00	2.00	8.00	6.00	8.00	20.34	72.80			
105	17	1.84	2.47	7.45	6.00	8.00	23.66	72.80			
110	17	2.00	2.00	8.00	6.00	8.00	24.34	72.00			
111	17	1.85	2.51	7.63	5.95	8.00	23.65	73.20			
112	17	2.00	2.00	8.00	5.95	7.95	24.21	71.00			
113	17	1.97	2.49	8.00	5.66	7.62	23.10	75.30			
114	17	2.00	2.00	8.00	6.00	8.00	24.34	75.30			
115	17	2.00	2.00	8.00	6.00	8.00	24.34	73.30			
116	17	2.00	2.00	8.00	6.00	8.00	24.34	73.20			
120	17	1.90	2.30	8.00	5.84	7.84	23.78	70.40			
121	17	2.00	2.00	8.00	6.00	8.00	24.34	72.00			
122	17	1.87	2.39	8.00	6.00	8.00	24.14	73.70			
123	16	1.17	2.29	8.00	5.48	7.92	23.61	68.10			
124	17	2.00	2.00	8.00	5.53	7.86	23.32	68.80			
125	17	2.00	2.00	8.00	5.91	7.91	24.11	74.90			
126	17	2.00	2.29	7.71	5.67	7.72	23.03	70.30			
130	17	2.00	2.00	8.00	5.64	7.64	23.42	69.30			
131	17	1.65	2.00	8.00	5.65	7.65	23.71	73.40			
132	17	2.00	2.00	8.00	6.00	8.00	24.34	77.10			
133	17	2.00	2.00	8.00	6.00	8.00	24.34	69.20			
134	13	2.00	2.00	8.00	4.43	7.22	20.65	58.00			
135	17	2.00	2.00	8.00	5.95	7.95	24.22	71.90			
140	17	1.95	2.35	7.79	5.59	7.62	22.91	67.40			
141	15	2.00	2.00	8.00	4.85	6.97	21.37	58.00			
142	15	1.97	2.03	8.00	4.99	6.14	21.43	63.60			
143	12	3.39	3.51	8.00	4.40	5.85	17.84	50.90			
144	15	1.90	2.02	8.00	4.99	6.96	21.31	62.70			
145	15	0.89	2.20	7.91	4.93	7.28	22.37	49.10			
150	11	3.30	7.88	2.22	3.99	4.97	7.87	42.10			
151	12	2.77	7.92	1.90	4.15	5.88	9.08	45.50			
152	15	1.83	7.97	1.15	4.83	7.06	11.47	50.40			
153	13	1.51	7.67	1.65	4.46	6.79	11.23	47.90			
154	12	2.83	7.73	5.59	4.01	5.61	10.41	46.00			
155	12	2.00	8.00	2.79	4.39	5.99	9.88	47.70			
156	15	1.00	8.00	8.00	5.00	7.00	18.02	56.50			

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 3

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
161	15	1.45	7.79	7.69	4.80	6.64	16.80	49.40	
162	12	2.17	7.76	2.43	4.33	5.93	12.22	46.40	
163	15	2.15	7.74	3.41	4.91	6.17	11.56	62.90	
164	14	1.12	6.16	7.76	4.01	7.59	17.17	52.20	
165	15	1.63	6.63	5.76	4.68	7.00	16.10	50.30	
170	13	2.00	8.00	1.00	4.00	7.00	9.43	51.20	
171	7	2.43	6.62	6.83	3.47	4.93	10.10	39.00	
172	15	2.11	7.63	6.26	4.63	6.63	11.90	55.50	
173	11	2.16	7.04	4.03	4.00	5.27	11.81	44.50	
174	15	1.22	0.92	8.00	5.12	7.06	23.47	64.60	
175	15	1.23	4.31	7.52	4.62	6.42	19.04	51.80	
180	12	2.52	3.00	7.53	3.74	6.20	16.99	38.90	
181	17	0.58	7.84	8.00	5.63	7.63	20.07	68.50	
182	13	0.82	4.00	8.00	3.77	6.53	18.35	42.40	
183	15	0.93	7.27	1.97	4.81	7.07	13.09	55.50	
184	15	0.61	5.48	7.85	5.39	7.37	21.09	65.30	
185	16	0.02	4.04	8.00	4.91	7.86	21.91	45.00	
190	15	0.56	7.27	1.45	4.70	7.21	13.02	52.50	
191	13	0.63	6.28	2.21	3.93	6.74	11.67	42.90	
192	15	0.16	5.95	7.81	5.00	6.98	20.05	62.00	
193	15	0.93	4.33	8.00	4.98	5.58	20.27	48.80	
194	15	1.69	5.45	7.06	4.69	6.61	17.76	53.70	
195	15	1.69	5.42	5.87	5.11	7.01	17.77	62.70	

(02) MANAGERS AND ADMINISTRATORS, EXCEPT FARM

201	15	1.09	5.63	8.00	4.93	6.97	19.58	51.90	
202	16	1.29	3.33	7.99	5.06	7.81	21.73	60.10	
203	15	1.26	5.01	8.00	4.80	7.02	19.65	49.00	
205	13	1.20	5.09	7.93	4.43	6.61	18.62	50.70	
210	16	1.19	5.94	8.00	4.93	7.78	19.59	56.40	
211	15	1.27	6.05	8.00	4.86	6.82	18.92	54.20	
212	16	1.11	2.59	7.66	4.96	7.58	21.89	60.90	
213	15	1.24	6.49	7.40	4.76	6.25	16.77	49.60	
215	12	2.42	7.12	6.55	4.00	5.67	11.39	45.80	
215	12	2.61	7.16	5.95	4.12	6.00	10.96	48.10	917
215	11	2.25	7.02	7.28	3.92	5.38	12.06	43.10	927
215	11	2.22	7.47	5.80	3.78	5.27	10.01	41.40	937
216	12	1.44	5.43	7.51	3.82	6.39	15.84	41.50	
220	16	1.06	5.84	7.96	4.89	7.78	19.62	57.30	
221	13	1.54	3.97	3.91	3.95	6.77	13.61	43.20	
222	15	1.55	4.84	7.81	4.75	6.92	19.05	53.80	
223	16	1.13	2.44	8.00	5.07	7.70	22.54	56.00	
224	13	1.00	5.69	8.00	4.04	6.94	17.67	49.00	
225	13	1.09	4.72	7.95	4.08	6.74	10.30	49.50	
226	13	1.98	5.90	7.87	3.81	6.56	15.93	45.90	
230	12	1.44	5.95	7.74	3.97	5.99	16.39	43.70	
231	13	1.20	3.68	7.93	4.26	6.95	19.39	48.00	

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OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IN)	S/S
233	16	1.11	1.97	7.97	5.00	7.70	22.75	60.80		
235	16	1.36	3.24	8.00	5.28	7.67	22.21	68.80		
240	17	1.19	1.43	7.88	5.75	7.93	24.70	71.20		
245	15	1.24	4.36	7.54	4.67	7.27	19.46	54.10		1
245	13	1.82	5.72	7.08	4.06	6.62	15.89	44.90		2
245	16	1.10	4.93	6.90	4.69	7.62	18.92	54.60	067-077	1
245	13	2.06	6.37	6.13	3.91	6.91	14.36	45.40	067-077	2
245	16	1.10	3.06	7.21	5.14	7.74	21.52	61.80	107-259	1
245	15	1.65	3.66	6.17	4.69	7.28	18.61	49.10	107-259	2
245	16	1.06	2.64	7.58	5.23	7.83	22.44	61.30	268-398	1
245	13	2.09	4.86	6.17	4.36	6.87	16.39	49.30	268-398	2
245	15	1.32	4.73	7.82	4.62	7.16	18.31	52.80	407-429	1
245	12	3.03	6.03	6.23	4.00	6.01	13.19	44.90	407-429	2
245	16	1.87	4.54	7.50	4.85	7.54	20.05	56.30	447-449	1
245	10	4.22	7.07	5.32	3.46	4.39	8.87	42.70	447-449	2
245	16	1.17	4.17	7.82	4.86	7.86	20.50	55.70	507-588	1
245	13	1.36	5.38	7.77	4.37	6.63	18.00	49.70	507-588	2
245	13	1.24	3.27	7.97	4.25	6.86	18.07	43.00	607+608	1
245	13	1.16	5.88	7.85	4.05	6.86	17.26	40.90	607+608	2
245	13	1.13	5.28	7.92	4.21	6.81	18.14	48.40	609-627	1
245	13	1.05	5.50	8.00	4.16	7.05	18.08	45.60	609-627	2
245	13	1.15	5.80	7.91	4.06	6.83	17.37	46.20	628-638	1
245	13	1.53	6.09	7.83	3.86	6.47	16.15	39.60	628-638	2
245	13	1.41	5.37	7.44	4.22	6.84	17.30	47.90	639+647	1
245	13	1.44	5.26	8.00	4.13	6.64	17.74	46.50	639+647	2
245	12	2.84	6.07	7.12	3.69	5.74	12.77	38.50	648	1
245	12	2.95	6.15	7.22	3.68	5.62	12.44	38.60	648	2
245	13	1.17	5.48	7.88	4.09	6.91	17.69	49.10	657	1
245	13	1.44	5.97	7.19	3.93	6.64	16.09	47.60	657	2
245	13	1.07	5.23	8.00	4.24	7.12	18.46	50.40	667	1
245	13	1.53	5.58	7.16	4.08	6.82	16.68	46.30	667	2
245	13	1.15	5.75	7.78	4.10	6.90	17.44	47.70	OTHER	1
245	13	1.21	5.95	7.74	4.02	6.75	16.95	44.50	OTHER	2
245	15	1.38	4.40	8.00	4.95	7.24	20.43	61.70	707-718	1
245	15	1.79	5.17	7.40	4.51	6.69	17.79	57.30	707-718	2
245	15	1.29	4.10	7.19	4.82	7.10	19.45	56.10	727-759	1
245	13	1.64	5.57	5.67	4.19	6.93	15.48	46.40	727-759	2
245	13	1.52	3.48	7.44	4.22	6.90	17.22	46.10	769-798	1
245	13	2.08	4.70	7.23	3.94	6.48	14.85	42.70	769-798	2
245	15	1.21	3.95	7.41	4.94	7.32	20.36	60.10	ALL ELSE	1
245	13	1.97	5.59	7.18	4.37	6.61	16.84	48.30	ALL ELSE	2

(03) SALES WORKERS

260	12	2.57	5.01	8.00	4.42	6.19	17.52	53.50		
261	8	2.00	5.00	8.00	3.00	6.00	14.61	38.40		
262	6	3.39	5.18	7.48	3.28	3.71	12.90	27.50		
264	5	3.10	5.07	7.96	3.21	3.43	13.25	23.20		
265	12	1.86	5.65	8.00	4.21	6.18	17.09	49.70		

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 5

OCC	O_L	D	P	T	GED	SVR	S-DIR	PREST	IN IND S/S
266	4	6.83	6.02	7.81	2.99	2.09	8.54	5.30	
270	12	2.99	5.02	8.00	3.95	5.82	16.00	47.80	
271	15	1.74	5.43	8.00	5.26	6.81	19.89	65.50	
281	11	2.62	5.13	7.89	3.84	5.05	15.56	47.10	
282	11	2.84	5.14	7.96	3.81	4.97	15.29	43.40	
283	6	3.95	5.88	7.85	3.14	3.59	11.53	30.70	
284	11	3.11	5.33	7.79	3.74	4.67	14.37	39.70	
285	11	3.14	5.49	7.65	3.63	4.51	13.92	41.00	

(04) CLERICAL AND KINDRED WORKERS

301	11	2.98	5.99	8.00	3.98	5.04	15.06	43.70	
303	6	3.26	7.84	7.98	3.11	3.96	11.02	38.50	
305	11	3.12	7.91	7.96	3.98	5.01	13.43	45.90	
310	4	3.91	6.06	7.97	3.11	2.44	11.30	27.40	
311	5	3.00	8.00	8.00	3.00	3.00	11.90	35.30	
312	13	1.45	5.78	7.93	4.36	6.73	17.81	52.30	
313	5	2.93	6.80	8.00	3.19	3.39	12.15	34.90	
314	6	4.13	6.82	7.64	3.09	3.84	9.66	33.00	
315	7	1.61	6.04	7.85	3.42	4.74	14.59	35.20	
320	10	2.32	6.34	8.00	3.50	4.25	13.86	33.30	
321	11	2.46	6.51	7.79	4.13	5.49	15.37	48.30	
323	11	2.54	6.88	7.49	3.86	5.04	13.46	43.40	
325	6	3.06	7.76	8.00	3.17	3.48	11.29	34.90	
326	16	1.39	6.17	8.00	4.77	7.62	18.72	56.30	
330	10	3.10	6.41	7.73	3.91	4.29	13.57	33.10	
331	5	3.08	7.56	7.93	3.01	2.94	10.48	34.90	
332	5	4.61	7.50	7.76	3.00	2.85	8.73	32.80	
333	1	6.31	7.25	7.65	2.14	2.27	5.52	16.70	
334	6	5.00	8.00	8.00	3.00	4.00	9.45	34.10	
341	6	0.39	7.97	7.61	3.40	4.34	11.01	40.90	
342	5	4.05	7.78	7.69	3.00	3.06	9.69	37.70	
343	12	2.89	7.80	2.87	4.11	5.87	9.47	44.40	
344	2	6.25	8.00	4.89	2.49	2.87	2.70	30.10	
345	7	4.25	7.47	3.00	3.33	4.60	6.65	39.90	
350	6	5.73	8.00	5.24	2.86	4.05	5.35	36.40	
355	6	4.82	8.00	4.14	2.97	3.99	5.27	34.00	
360	11	3.65	7.77	7.99	3.73	4.58	12.43	44.70	
361	10	3.43	6.50	7.94	3.68	3.81	13.04	41.20	
362	6	5.54	8.00	8.00	3.11	4.26	9.38	40.70	
363	15	2.00	8.00	7.00	5.00	7.00	11.59	59.70	
364	7	3.07	6.07	7.87	3.14	4.97	12.93	36.30	
370	12	3.00	6.05	7.91	3.99	5.99	15.22	49.00	
371	12	2.98	6.07	8.00	3.95	5.81	15.21	47.10	
372	12	2.98	6.03	7.98	4.00	5.98	15.41	47.70	
374	6	4.19	7.60	7.07	3.02	3.62	5.23	32.30	
375	6	3.37	7.58	7.72	3.42	4.22	11.63	41.50	
376	7	3.03	7.92	8.00	3.04	5.02	11.51	42.50	
381	6	3.58	7.71	7.13	3.00	4.40	6.44	33.60	
382	10	3.38	5.81	7.89	3.66	3.58	12.99	29.10	
383	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

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OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN	IND	S/S
384	10	4.75	7.03	6.38	3.50	4.17	9.85	40.50			
385	5	6.37	5.88	2.72	3.12	3.31	4.97	35.70			
390	11	2.83	5.74	7.93	3.79	4.94	14.82	44.20			
391	6	3.72	7.90	7.85	3.05	3.78	10.39	37.60			
392	1	5.40	7.97	6.68	2.00	2.44	1.04	25.60			
394	6	3.80	7.57	7.82	3.44	3.59	11.14	39.60			
395	6	3.80	7.57	7.82	3.44	3.59	11.14	39.60			
	5	3.93	7.86	7.67	3.41	3.46	10.54	40.80			107-398
	6	3.52	7.22	7.72	3.48	3.73	11.82	41.50			407-429
	5	4.19	7.65	7.84	3.26	3.27	18.19	35.20			507-698
	10	3.55	7.60	7.94	3.59	3.91	12.05	41.00			707-718
	10	3.62	7.43	7.89	3.53	3.72	11.75	37.60			828-897
	10	3.64	7.63	7.97	3.46	3.63	11.49	41.60			907-937
	5	4.10	7.49	7.52	3.30	3.43	10.17	35.60			ALL ELSE

(05) CRAFTSMEN AND KINDRED WORKERS

401	8	3.40	5.66	4.14	3.40	6.40	10.49	34.80			
402	9	6.26	7.80	1.81	3.12	6.50	4.41	33.90			
403	13	3.00	8.00	1.00	3.76	6.76	8.03	35.70			
404	13	2.57	7.75	2.95	3.85	6.86	8.80	40.40			
405	8	7.00	8.00	3.65	2.78	5.48	2.36	36.20			
410	9	3.48	7.89	1.43	3.08	7.67	6.82	35.50			
411	9	3.00	8.00	1.00	3.00	8.00	6.89	35.80			
412	7	7.00	8.00	3.02	2.95	4.79	2.46	29.60			
413	12	2.70	7.96	0.85	3.81	5.89	8.18	34.40			
415	14	3.27	7.84	1.26	3.87	7.61	8.59	38.70			
416	13	3.13	8.00	1.84	3.87	6.61	8.49	36.70			
420	9	3.43	7.93	1.59	2.98	6.60	6.16	33.70			
421	8	6.50	8.00	3.83	2.95	5.84	3.02	30.90			
422	13	4.63	7.84	1.98	3.84	6.79	7.30	43.60			
423	12	5.71	8.00	2.37	3.65	5.94	5.41	35.90			
424	7	6.89	8.00	2.91	2.84	4.56	2.01	31.80			
425	15	0.37	6.94	1.39	4.63	6.54	12.80	43.50			
426	14	2.86	7.66	2.67	4.05	7.57	10.71	44.90			
430	13	2.12	7.77	1.25	3.96	6.95	9.49	43.80			
431	13	2.03	8.00	1.00	4.00	7.03	9.41	40.50			
433	13	2.88	7.69	1.33	3.84	6.86	8.59	43.60			
434	9	4.53	8.00	4.04	3.38	6.86	8.24	42.60			
435	8	4.71	8.00	2.09	3.00	6.38	4.94	36.30			
436	7	6.89	7.94	3.05	2.96	4.88	2.68	31.20			
440	8	7.00	8.00	2.19	3.00	6.00	3.03	34.10			
441	13	1.27	3.94	4.85	4.14	7.16	16.06	44.90			
441	13	1.15	4.00	4.18	4.10	7.45	15.14	43.40			067-077
441	14	1.12	4.00	3.81	4.27	7.51	16.04	46.40			139-169
441	14	1.05	3.75	4.00	4.28	7.52	16.51	46.90			177-198
441	13	1.39	3.85	3.72	4.12	7.08	15.64	45.70			199-209

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 7

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
441	13	1.30	4.36	4.32	4.28	7.31	15.95	48.60	219-238
441	13	1.21	3.55	3.59	4.17	7.39	15.85	43.70	239-259
441	13	1.17	3.33	4.70	4.04	6.87	16.42	41.70	268-298
441	13	2.29	4.15	5.00	4.04	6.64	13.91	41.20	307-318
441	13	1.30	3.77	4.50	4.14	7.12	16.31	45.20	319-397
441	13	1.35	4.28	6.09	3.89	6.86	15.60	42.80	407-429
441	13	1.17	4.08	5.47	4.17	7.14	16.80	47.10	447-449
441	13	1.22	3.94	6.34	4.13	6.95	17.17	44.10	507-698
441	13	1.17	3.96	5.58	4.15	7.16	16.33	44.60	ALL ELSE
442	8	5.83	8.00	2.55	3.14	5.59	4.78	35.00	
443	12	4.17	8.00	2.27	3.58	5.70	6.34	30.70	
444	14	0.00	8.00	1.00	4.00	8.00	11.05	39.30	
445	8	6.26	7.62	2.16	3.06	6.33	4.45	36.70	
446	7	6.61	8.00	2.57	2.99	4.45	5.45	33.20	
450	6	4.77	8.00	7.00	2.88	3.76	3.62	25.70	
452	12	3.24	7.58	5.83	3.63	5.70	8.06	40.70	
452	13	1.87	7.55	5.84	4.19	6.95	10.61	44.70	067-077
452	11	3.70	8.00	6.75	3.60	4.96	6.45	37.70	407
452	7	3.31	7.45	5.53	3.41	5.42	8.21	38.90	ALL ELSE
453	14	2.00	8.00	1.00	4.00	7.65	9.64	41.20	
454	12	3.39	8.00	0.26	3.89	6.26	8.83	39.40	
455	13	3.03	8.00	2.85	4.03	6.95	8.47	47.50	
456	13	2.95	8.00	2.84	4.00	7.00	8.70	45.70	
461	13	2.22	7.97	0.21	3.95	6.97	9.17	41.50	
462	13	3.15	7.80	0.56	3.90	6.61	8.32	38.10	
470	13	2.44	7.98	1.28	3.85	7.27	8.95	41.40	
471	13	2.22	7.71	1.38	3.94	6.92	9.55	43.40	
472	9	2.94	7.91	1.55	3.13	6.81	7.08	33.20	
473	13	2.35	7.86	1.41	3.79	6.66	8.02	36.60	
474	13	2.00	8.00	1.00	4.00	7.00	9.43	31.10	
475	13	1.84	7.40	1.76	4.32	7.05	11.28	47.60	
480	13	2.19	7.80	1.11	3.97	6.91	9.34	36.60	
481	13	2.34	7.94	1.10	3.85	6.61	8.82	39.80	
482	12	3.81	7.91	2.53	3.57	5.66	7.09	37.50	
483	13	2.00	8.00	0.00	4.00	7.40	9.43	32.80	
484	13	1.72	7.51	2.15	4.15	6.82	11.19	42.60	
485	13	2.01	7.92	1.25	3.98	6.83	9.56	41.00	
486	13	2.99	8.00	1.91	3.81	6.62	8.10	38.20	
491	12	3.32	8.00	1.79	3.47	6.19	6.96	37.60	
492	12	3.43	7.89	1.74	3.63	5.95	7.80	38.40	
495	12	2.75	7.84	1.46	3.68	6.44	8.06	35.80	
501	7	6.04	7.28	4.00	2.96	5.13	5.07	26.80	
502	13	2.09	8.00	1.00	3.98	6.98	9.31	43.70	
503	12	4.33	8.00	1.76	3.49	5.75	6.04	34.50	
504	8	4.00	8.00	2.00	3.00	6.48	8.63	32.70	
505	12	3.00	8.00	2.00	3.89	6.11	8.09	37.00	
506	8	3.82	7.57	1.76	3.14	5.54	6.92	35.60	

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 8

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN	IND	S/S
510	9	6.59	7.87	1.46	3.02	6.72	3.88	31.30			
511	9	7.00	8.00	1.00	3.00	7.00	8.63	32.60			
512	9	6.66	8.00	1.00	3.29	7.09	8.90	34.00			
514	13	3.38	8.00	0.55	3.81	6.76	7.86	44.10			
515	13	3.46	8.00	1.90	3.58	7.28	7.78	44.70			
516	12	3.00	8.00	1.00	4.00	6.00	8.27	37.50			
520	9	6.73	7.91	1.32	3.18	6.74	4.03	35.50			
521	9	7.00	8.00	1.00	3.00	7.00	8.63	33.50			
522	13	3.00	7.81	1.25	3.91	7.28	8.84	43.40			
523	13	3.00	8.00	1.00	4.00	7.33	8.79	40.70			
525	13	5.25	7.71	3.83	3.92	6.91	7.75	46.80			
530	12	6.53	7.81	2.33	3.73	6.38	5.38	43.20			
531	7	7.00	8.00	2.68	3.32	5.30	3.45	37.30			
533	3	7.00	8.00	4.30	2.38	3.91	0.88	30.30			
534	9	2.94	7.96	1.15	3.04	7.00	6.78	29.70			
535	13	2.32	7.84	1.16	3.92	6.85	9.08	42.40			
536	13	2.00	8.00	1.00	4.00	7.00	9.43	39.80			
540	14	3.22	8.00	1.43	3.99	7.73	8.74	43.20			
542	9	2.83	7.83	1.61	3.09	7.00	7.45	26.20			
543	13	2.83	8.00	1.00	4.00	6.88	8.74	39.20			
545	12	5.64	7.80	2.39	3.75	6.27	5.98	42.40			
546	7	5.74	8.00	3.52	2.95	4.53	3.31	28.40			
550	9	5.64	7.66	1.62	3.20	6.53	4.98	39.50			
551	8	4.28	7.69	2.60	3.27	5.62	5.92	31.70			
552	12	2.98	7.86	1.41	3.60	5.95	7.53	41.00			
554	13	2.80	7.51	1.05	3.83	6.80	8.74	41.30			
560	9	5.91	7.78	1.49	3.17	6.87	4.69	35.40			
561	13	2.11	7.96	0.31	3.96	6.95	9.32	44.40			
562	13	2.00	8.00	0.00	4.00	7.00	9.43	40.90			
563	7	5.14	8.00	2.82	2.85	4.67	3.39	28.00			
571	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INA		
572	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	INA		
575	7	5.39	7.86	2.76	3.10	4.95	4.18	34.10			

(06) OPERATIVES, EXCEPT TRANSPORT

601	7	6.51	7.91	3.95	3.00	4.96	3.35	37.40			
602	2	6.65	8.00	4.59	2.42	3.24	0.97	30.30			
603	13	1.76	8.00	1.00	3.85	7.12	9.33	35.20			
604	1	7.00	8.00	5.22	1.93	2.00	-0.84	21.00			
605	6	5.67	8.00	6.72	2.93	4.04	3.14	29.20			
610	6	4.62	7.93	4.96	2.87	3.95	3.54	34.40			
611	5	6.98	7.98	3.07	2.62	3.34	1.34	24.20			
612	6	6.63	7.98	4.06	2.58	3.58	1.54	27.40			
613	8	4.18	7.74	1.68	3.12	5.51	5.53	29.30			
614	7	7.00	8.00	3.01	2.89	4.90	2.36	32.00			
615	11	6.64	8.00	3.16	3.63	4.49	4.08	37.70			
620	6	6.36	8.00	3.78	2.57	3.57	1.77	23.60			
621	3	6.43	8.00	4.36	2.28	3.51	0.96	24.20			
622	6	6.75	7.88	3.45	2.49	4.00	1.44	28.30			
623	5	6.80	6.28	6.63	2.92	3.15	3.41	18.30			

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OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
624	2	5.80	8.00	6.72	1.86	2.69	0.21	21.30	
625	1	6.61	7.95	7.02	1.94	2.15	-0.27	13.80	
626	12	5.01	8.00	1.50	3.50	6.00	5.64	37.30	
630	2	6.60	7.90	5.63	1.92	2.55	-0.07	19.20	
631	8	6.18	7.67	4.42	3.27	5.90	4.68	36.20	
633	7	5.56	8.00	3.51	2.54	4.58	2.60	28.00	
634	1	6.93	8.00	6.43	2.04	2.14	-0.52	27.30	
635	7	4.62	8.00	1.87	3.27	5.32	5.20	33.50	
636	8	2.00	8.00	1.00	3.00	6.00	2.02	30.30	
640	6	5.94	8.00	4.01	2.60	3.90	2.13	27.60	
640	6	5.67	8.00	3.69	2.83	4.12	2.94	26.50	048
640	6	5.99	8.00	3.21	2.60	4.29	2.09	29.80	049
640	2	6.30	8.00	5.00	2.23	2.95	2.22	24.70	057
641	6	7.00	8.00	4.07	2.48	3.47	0.92	26.80	
642	2	6.91	8.00	6.52	2.07	3.14	-0.02	25.10	
643	1	6.89	8.00	6.48	2.06	2.19	-0.41	23.40	
644	7	6.53	7.91	3.74	2.78	4.74	2.50	29.60	
645	7	4.52	7.70	2.80	3.13	5.06	5.08	36.00	
650	6	6.55	8.00	2.19	3.03	4.06	2.69	32.30	
651	6	5.44	8.00	2.88	2.81	4.44	3.22	31.80	
652	6	6.39	8.00	3.79	2.60	3.79	1.78	31.70	
653	7	4.85	7.89	2.76	3.20	4.71	5.02	35.60	
656	7	6.22	8.00	2.52	2.87	4.77	2.87	32.20	
660	2	7.00	8.00	4.25	2.35	2.91	0.43	25.90	
661	7	7.00	8.00	6.10	2.55	4.60	1.51	28.80	
662	6	6.91	8.00	2.93	2.69	4.34	1.78	21.60	
663	6	6.69	7.98	2.32	2.68	4.03	2.28	28.90	
664	2	6.64	7.85	5.13	1.91	2.91	-0.02	21.20	
665	8	7.00	8.00	4.00	2.46	6.22	7.79	32.80	
666	7	7.00	8.00	3.52	3.11	5.19	2.96	34.10	
670	6	6.45	8.00	4.33	2.52	3.45	1.42	19.00	
671	3	7.00	8.00	4.43	2.43	3.86	2.97	26.40	
672	2	6.89	7.91	5.14	2.08	2.86	-0.83	21.70	
673	7	7.00	8.00	2.48	2.94	4.71	2.39	29.30	
674	2	6.35	7.92	4.72	2.33	3.28	2.08	22.90	
680	7	6.69	7.97	3.71	2.90	5.19	2.70	33.40	
681	6	6.64	8.00	4.00	2.54	3.69	1.41	32.10	
690	6	6.31	7.91	4.21	2.57	3.86	0.02	29.30	
692	6	6.31	7.91	4.21	2.57	3.86	0.02	29.30	
694	6	6.31	7.91	4.21	2.57	3.86	0.02	29.30	
695	6	6.31	7.91	4.21	2.57	3.86	0.02	29.30	
	6	6.81	0.00	4.74	2.51	3.88	1.26	25.70	067-077
	6	6.03	7.55	4.55	2.61	3.48	0.60	25.00	107-109
	6	6.19	8.00	3.99	2.84	3.84	2.46	14.30	118
	7	6.79	8.00	3.59	2.58	4.72	1.78	31.30	119
	6	6.67	7.62	4.62	2.58	4.10	2.22	25.30	127

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OCC D_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
7	6.03	7.54	3.47	2.86	4.57	3.65	29.20	128-138
6	6.50	7.74	3.80	2.68	3.97	0.34	30.40	139
6	5.74	8.00	3.69	2.59	3.91	0.30	27.10	147
6	6.70	8.00	3.78	2.67	3.58	1.73	29.80	148+149
6	5.55	8.00	2.97	3.00	4.14	3.43	30.60	157
7	6.31	8.00	3.54	2.66	4.53	2.25	27.50	158
6	6.04	8.00	3.83	2.64	4.12	0.06	28.60	159
3	6.70	8.00	4.34	2.40	3.47	0.98	26.90	167-169
7	5.98	8.00	3.37	3.00	4.82	3.79	33.60	178
7	6.14	8.00	2.76	2.82	4.64	0.77	33.30	179
5	6.00	8.00	4.75	2.54	3.34	1.62	30.90	187
7	6.34	8.00	3.08	2.70	4.60	2.33	34.40	188
6	5.56	7.91	3.35	2.83	4.27	3.29	31.80	189-198
2	7.00	8.00	5.39	2.10	2.76	-0.17	26.30	199
7	5.55	7.69	3.37	3.08	4.84	4.58	37.50	207
6	6.10	8.00	4.14	2.57	3.58	1.84	31.20	208
2	7.00	8.00	4.93	2.34	3.35	0.57	30.30	209
6	5.88	7.94	3.83	2.70	4.16	2.74	32.30	219
7	5.78	8.00	2.61	2.93	4.76	3.34	35.30	227
7	5.81	7.73	4.05	2.87	4.45	3.07	29.20	228-238
6	5.85	8.00	3.29	2.93	4.36	3.12	34.20	239-249
2	7.00	8.00	4.67	2.39	3.18	0.62	29.70	257
6	6.27	7.76	5.35	2.68	3.80	0.77	31.80	258
6	6.09	7.75	4.37	2.57	3.88	0.52	26.60	259
2	6.62	7.91	5.58	2.19	2.77	2.56	23.10	268
7	6.44	8.00	2.71	2.93	5.16	2.98	32.60	269
2	6.37	8.00	5.37	2.19	2.90	0.57	19.20	278
3	7.00	7.93	5.15	2.37	3.95	0.58	26.50	287
5	6.36	7.79	5.15	2.53	3.40	2.27	29.20	289
6	6.22	7.78	4.33	2.51	3.88	1.91	26.40	297+298
5	6.35	8.00	7.07	2.52	3.32	1.46	25.80	299
2	6.60	7.95	5.39	1.94	2.93	2.00	22.00	319
2	6.66	8.00	4.35	2.39	3.24	0.89	23.60	327
7	6.33	8.00	3.22	2.93	4.64	2.87	34.80	328
3	6.76	8.00	4.67	2.24	3.70	0.69	28.90	329
3	7.00	8.00	4.08	2.43	3.50	0.82	26.70	337
5	6.20	7.75	6.14	2.47	3.03	2.91	30.00	338
3	6.44	7.98	4.64	2.41	3.87	1.61	31.00	339
7	5.92	8.00	3.02	2.96	4.93	3.37	36.20	347
6	7.00	8.00	4.71	2.74	3.77	1.62	32.10	349
7	7.00	8.00	3.16	2.76	4.59	1.95	34.20	358
6	6.72	7.95	4.39	2.70	3.84	1.94	33.20	368+369
8	5.55	8.00	2.39	3.12	5.67	4.27	38.70	377+378
2	6.84	8.00	4.18	2.34	3.43	0.74	29.90	379
6	6.84	8.00	3.68	2.52	3.76	1.24	28.50	387
2	6.86	8.00	5.10	1.87	2.57	-0.63	18.70	388
2	6.51	8.00	4.74	2.18	3.18	0.53	23.50	389
6	6.35	7.24	5.42	2.57	3.61	2.85	25.50	397
6	6.32	7.91	4.15	2.58	3.89	2.00	27.20	398
3	7.00	8.00	3.67	2.16	4.69	0.71	23.20	407
6	3.12	7.14	5.84	2.64	3.96	5.60	31.20	408-429

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OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
	7	5.81	8.00	3.40	2.96	4.74	3.38	33.70	447-479
	5	6.49	7.92	4.61	2.51	3.29	1.38	24.80	507-588
	2	6.18	8.00	4.70	2.29	3.37	1.10	21.70	607-698
	3	6.75	8.00	4.38	2.40	3.78	1.06	25.50	727-759
	7	6.10	8.00	3.67	2.99	4.67	3.00	34.00	907-937
	6	5.87	7.79	4.70	2.82	3.73	3.00	26.90	ALL ELSE

(07) TRANSPORT EQUIPMENT OPERATIVES

701	7	7.00	8.00	3.00	3.00	5.00	2.64	30.80
703	7	4.01	6.03	3.03	3.01	4.98	6.48	30.20
704	7	5.46	6.55	3.93	3.00	4.88	6.06	35.50
705	6	4.68	6.45	5.84	2.90	4.09	8.20	30.50
706	2	6.93	7.97	3.13	2.10	3.09	0.10	22.60
710	7	6.24	7.49	3.26	2.75	4.46	2.88	26.40
711	1	7.00	7.00	8.00	2.00	2.00	5.73	14.10
712	6	6.30	7.72	4.28	2.91	3.97	3.29	35.70
713	5	6.32	7.93	5.09	2.55	3.28	1.58	32.40
714	5	4.74	6.47	3.20	3.00	3.12	5.04	24.20
715	6	6.87	7.95	3.13	2.94	3.83	2.09	29.10

(08) LABORERS, EXCEPT FARM

740	6	6.74	7.23	4.20	2.70	3.75	2.47	23.30	
750	1	6.89	8.00	6.48	1.40	1.70	-2.02	9.30	
751	2	6.89	7.98	5.30	2.25	3.32	0.53	20.50	
752	3	6.74	7.84	4.12	2.20	3.79	0.75	18.10	
753	2	6.58	7.86	6.72	2.17	2.94	0.99	23.00	
754	1	7.00	8.00	6.00	1.46	1.56	-2.02	11.50	
755	2	6.35	7.89	5.42	2.26	2.99	1.00	15.50	
760	2	6.50	7.75	5.58	2.17	3.38	0.91	24.80	
761	3	6.89	7.96	4.64	2.12	4.24	0.67	14.50	
762	5	5.85	7.65	7.12	2.53	2.74	2.76	15.30	
763	7	7.00	8.00	3.48	2.52	5.00	1.62	22.20	
764	1	6.69	7.82	6.65	1.72	2.03	-0.72	12.80	
770	1	6.81	7.92	6.90	2.07	2.36	-0.09	25.30	
780	2	6.81	7.91	5.99	2.14	2.73	0.38	19.20	
785	2	6.81	7.91	5.99	2.14	2.73	0.38	19.20	
	2	6.95	8.00	5.50	1.96	3.02	-0.63	13.30	107-109
	2	5.81	7.59	6.30	2.34	3.38	2.07	14.70	118
	1	7.00	8.00	5.89	1.82	1.85	-1.13	17.20	127
	1	7.00	8.00	7.00	1.00	1.00	-3.23	7.40	128
	3	7.00	8.00	5.91	2.36	3.84	0.82	25.00	138
	1	6.92	8.00	5.88	2.05	2.33	-0.40	23.90	139
	1	7.00	8.00	6.15	1.85	2.39	-0.05	22.90	147
	1	7.00	8.00	5.93	1.87	2.20	-0.86	21.40	149
	2	7.00	8.00	6.18	1.95	2.50	-0.67	19.00	158
	2	7.00	8.00	5.09	2.25	3.25	0.33	24.40	177-198
	2	7.00	8.00	7.00	2.00	2.64	-0.43	24.00	199-208

OCCUPATION CHARACTERISTICS FOR 1970 CENSUS CLASSIFICATIONS PAGE 12

OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
1		7.00	8.00	6.34	2.00	2.00	-0.68	23.60	219
1		7.00	8.00	7.00	1.26	1.00	-0.68	13.50	228
5		5.60	8.00	4.70	2.60	3.37	0.02	24.70	OTHER
1		7.00	8.00	6.00	1.00	2.00	-0.14	15.70	239-257
1		7.00	8.00	7.00	2.00	2.00	-0.48	23.40	258
1		7.00	8.00	6.42	1.71	2.00	-1.31	14.50	259
1		6.39	8.00	6.62	1.70	2.11	-0.89	17.20	268
2		7.00	8.00	5.87	1.84	2.67	-0.87	19.00	269
1		7.00	8.00	6.00	1.00	2.00	-0.64	7.40	278
2		7.00	8.00	5.00	2.00	3.00	-0.09	16.40	279
2		7.00	8.00	5.60	2.28	3.09	0.43	41.30	287
2		7.00	8.00	6.49	1.75	2.50	-1.53	10.50	288-298
1		7.00	8.00	5.00	2.00	2.00	-0.18	10.10	299
2		7.00	8.00	7.00	2.00	2.49	-0.49	14.60	317
1		7.00	8.00	7.00	2.00	2.00	0.00	17.60	OTHER
2		7.00	8.00	7.00	2.00	2.52	-0.45	19.60	319-327
2		7.00	8.00	5.76	2.00	2.72	-0.60	15.00	328
2		7.00	8.00	6.43	1.88	2.77	-0.64	19.30	329+337
6		5.73	6.47	7.25	3.00	4.03	5.88	20.60	338
1		7.00	8.00	6.83	1.61	2.34	-1.39	19.90	347-369
2		7.00	8.00	7.00	2.00	2.74	-0.42	24.00	377+378
2		6.35	8.00	6.22	2.26	2.95	0.75	24.90	379+387
2		7.00	8.00	6.09	2.16	2.82	-0.03	18.40	388-397
2		6.86	7.96	6.08	1.98	2.56	-0.32	17.80	398
5		7.00	8.00	4.36	2.47	3.13	0.77	20.40	407
2		6.76	8.00	5.45	2.22	3.12	0.42	21.70	408-429
2		6.70	7.95	5.82	2.18	2.84	0.43	19.20	447-479
2		6.40	7.76	6.51	2.17	2.75	1.06	15.50	507-588
2		6.32	7.66	6.46	2.33	2.91	2.07	12.60	607-698
5		6.70	8.00	5.86	2.45	3.36	1.41	22.50	727-759
1		6.78	8.00	6.58	2.07	2.32	-0.23	2.10	769-798
2		6.28	8.00	6.34	2.23	2.70	0.65	18.20	907-937
2		6.42	7.86	5.21	2.41	3.35	1.56	16.80	ALL ELSE

(11) FARMERS AND FARM MANAGERS

801	13	1.68	7.97	1.51	3.84	6.62	9.29	30.90
802	13	1.54	6.49	5.11	3.98	6.83	13.76	39.10

(12) FARM LABORERS AND FARM FOREMEN

821	13	1.33	4.39	2.55	4.00	6.86	13.03	32.60
822	6	6.61	7.97	4.74	2.53	3.75	1.51	12.80
823	6	6.68	8.00	4.61	2.61	3.79	1.60	8.30
824	6	6.32	7.45	6.49	3.00	3.74	5.83	29.80

(10) SERVICE WORKERS, EXC. PRIVATE HOUSEHOLD

901	1	6.75	7.78	7.12	2.17	2.27	2.85	16.90
902	2	6.43	7.54	6.93	2.25	2.56	1.59	18.20
903	6	5.79	7.85	4.81	2.83	3.62	3.00	22.70

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OCC	O_L	D	P	T	GED	SVP	S-DIR	PREST	IN IND S/S
910	6	6.83	6.98	7.95	3.01	3.48	8.44	31.00	
911	1	7.00	7.05	7.95	2.02	2.03	5.46	0.00	
912	12	3.28	7.68	1.64	3.60	6.42	7.87	38.00	
913	1	6.89	7.96	6.96	1.21	2.00	-1.97	10.50	
914	1	6.63	7.03	7.81	2.21	2.09	6.31	14.50	
915	5	6.95	6.99	7.93	2.88	2.93	7.93	23.40	
916	2	6.66	7.64	6.82	1.76	2.95	1.86	13.40	
921	12	3.00	7.01	7.91	4.00	6.43	14.61	41.90	
922	11	3.88	6.65	7.40	3.63	4.72	12.04	38.30	
923	12	4.84	7.00	8.00	3.54	5.46	12.06	27.00	
924	6	8.00	7.00	8.00	3.00	4.00	6.98	33.30	
925	6	6.81	6.91	7.97	3.06	4.02	8.99	33.00	
926	11	4.67	7.00	8.00	3.59	5.17	12.19	43.30	
931	5	7.00	7.04	7.96	2.96	2.96	7.93	44.70	
932	6	5.42	5.88	7.57	3.01	3.57	9.01	17.20	
933	5	6.05	6.79	7.44	2.69	2.92	8.59	26.40	
934	5	5.56	6.17	7.61	2.57	3.21	8.52	24.00	
935	7	2.90	6.93	1.64	3.09	5.14	7.37	27.90	
940	13	1.28	3.42	6.90	3.80	6.54	16.97	33.40	
941	1	7.00	7.00	8.00	2.00	2.00	5.73	1.60	
942	4	6.75	6.79	7.99	3.06	2.41	5.45	23.00	
943	2	6.03	5.67	7.61	2.16	2.72	7.67	18.30	
944	12	2.06	6.82	6.87	3.94	5.95	10.45	38.50	
945	10	2.00	7.00	1.00	4.00	3.00	8.63	21.10	
950	11	3.03	4.99	7.76	3.59	5.05	13.93	36.60	
952	10	4.18	4.84	7.68	3.83	4.40	13.93	19.00	
953	2	6.58	7.11	7.26	2.30	2.73	6.32	3.70	
954	15	2.00	3.39	8.00	4.61	5.89	16.87	43.20	
960	2	6.29	6.29	7.43	2.23	2.54	6.71	15.00	
961	8	5.85	7.40	4.78	3.21	6.08	5.87	41.20	
962	5	6.46	6.02	7.91	2.53	3.19	8.33	26.00	
963	6	7.00	6.00	8.00	3.00	3.50	4.23	33.70	
964	7	2.37	5.86	7.99	3.16	4.81	13.63	37.30	
965	6	7.00	6.00	8.00	3.00	3.96	9.41	35.20	

(09) PRIVATE HOUSEHOLD WORKERS

980	4	6.99	7.00	8.00	3.00	2.01	7.91	18.12	
981	6	4.37	7.08	5.07	2.99	4.35	8.11	17.40	
982	6	5.55	6.22	7.81	3.05	3.51	9.20	15.80	
983	1	7.00	7.95	6.84	2.05	2.05	-0.25	8.40	
984	5	6.96	7.21	7.77	2.77	2.76	6.76	11.40	

APPENDIX A

Explanation of Relationships Within Data, People, Things Hierarchies

Much of the information in this edition of the Dictionary is based on the premise that every job requires a worker to function in relation to Data, People, and Things, in varying degrees. These relationships are identified and explained below. They appear in the form of three hierarchies arranged in each instance from the relatively simple to the complex in such a manner that each successive relationship includes those that are simpler and excludes the more complex.¹ The identifications attached to these relationships are referred to as worker functions, and provide standard terminology for use in summarizing exactly what a worker does on the job by means of one or more meaningful verbs.

A job's relationship to Data, People, and Things can be expressed in terms of the highest appropriate function in each hierarchy to which the worker has an occupationally significant relationship, and these functions taken together indicate the total level of complexity at which he must perform. The last three digits of the occupational code numbers in the Dictionary reflect significant relationships to Data, People, and Things, respectively.² These last three digits express a job's relationship to Data, People, and Things by identifying the highest appropriate function in each hierarchy to which the job requires the worker to have a significant relationship, as reflected by the following table:

DATA (4th digit)	PEOPLE (5th digit)	THINGS (6th digit)
0 Synthesizing	0 Mentoring	0 Setting-Up
1 Coordinating	1 Negotiating	1 Precision Working
2 Analyzing	2 Instructing	2 Operating-Controlling
3 Compiling	3 Supervising	3 Driving-Operating
4 Computing	4 Diverting	4 Manipulating
5 Copying	5 Persuading	5 Tending
6 Comparing	6 Speaking-Signaling	6 Feeding-Offbearing
7 } No significant relationship	7 Serving	7 Handling
8 } No significant relationship	8 No significant relationship	8 No significant relationship

DATA: Information, knowledge, and conceptions, related to data, people, or things, obtained by observation, investigation, interpretation, visualization, mental creation; incapable of being touched; written data take the form of numbers, words, symbols; other data are ideas, concepts, oral verbalization.

- 0 **Synthesizing:** Integrating analyses of data to discover facts and/or develop knowledge concepts or interpretations.
- 1 **Coordinating:** Determining time, place, and sequence of operations or action to be taken on the basis of analysis of data; executing determinations and/or reporting on events.
- 2 **Analyzing:** Examining and evaluating data. Presenting alternative actions in relation to the evaluation is frequently involved.
- 3 **Compiling:** Gathering, collating, or classifying information about data, people, or things. Reporting and/or carrying out a prescribed action in relation to the information is frequently involved.
- 4 **Computing:** Performing arithmetic operations and reporting on and/or carrying out a prescribed action in relation to them. Does not include counting.
- 5 **Copying:** Transcribing, entering, or posting data.
- 6 **Comparing:** Judging the readily observable functional, structural, or compositional characteristics (whether similar to or divergent from obvious standards) of data, people, or things.

PEOPLE: Human beings; also animals dealt with on an individual basis as if they were human.

- 0 **Mentoring:** Dealing with individuals in terms of their total personality in order to advise, counsel, and/or guide them with regard to problems that may be resolved by legal, scientific, clinical, spiritual, and/or other professional principles.

¹ As each of the relationships to People represents a wide range of complexity, resulting in considerable overlap among occupations, their arrangement is somewhat arbitrary and can be considered a hierarchy only in the most general sense.

² Only those relationships which are occupationally significant in terms of the requirements of the job are reflected in the code numbers. The incidental relationships which every worker has to Data, People, and Things, but which do not seriously affect successful performance of the essential duties of the job, are not reflected.

- 1 **Negotiating:** Exchanging ideas, information, and opinions with others to formulate policies and programs and/or arrive jointly at decisions, conclusions, or solutions.
- 2 **Instructing:** Teaching subject matter to others, or training others (including animals) through explanation, demonstration, and supervised practice; or making recommendations on the basis of technical disciplines.
- 3 **Supervising:** Determining or interpreting work procedures for a group of workers, assigning specific duties to them, maintaining harmonious relations among them, and promoting efficiency.
- 4 **Diverting:** Amusing others.
- 5 **Persuading:** Influencing others in favor of a product, service, or point of view.
- 6 **Speaking-Signaling:** Talking with and/or signaling people to convey or exchange information. Includes giving assignments and/or directions to helpers or assistants.
- 7 **Serving:** Attending to the needs or requests of people or animals or the expressed or implicit wishes of people. Immediate response is involved.

THINGS: Inanimate objects as distinguished from human beings; substances or materials; machines, tools, equipment; products. A thing is tangible and has shape, form, and other physical characteristics.

- 0 **Setting Up:** Adjusting machines or equipment by replacing or altering tools, jigs, fixtures, and attachments to prepare them to perform their functions, change their performance, or restore their proper functioning if they break down. Workers who set up one or a number of machines for other workers or who set up and personally operate a variety of machines are included here.
- 1 **Precision Working:** Using body members and/or tools or work aids to work, move, guide, or place objects or materials in situations where ultimate responsibility for the attainment of standards occurs and selection of appropriate tools, objects, or materials, and the adjustment of the tool to the task require exercise of considerable judgment.
- 2 **Operating-Controlling:** Starting, stopping, controlling, and adjusting the progress of machines or equipment designed to fabricate and/or process objects or materials. Operating machines involves setting up the machine and adjusting the machine or material as the work progresses. Controlling equipment involves observing gages, dials, etc., and turning valves and other devices to control such factors as temperature, pressure, flow of liquids, speed of pumps, and reactions of materials. Setup involves several variables and adjustment is more frequent than in tending.
- 3 **Driving-Operating:** Starting, stopping, and controlling the actions of machines or equipment for which a course must be steered, or which must be guided, in order to fabricate, process, and/or move things or people. Involves such activities as observing gages and dials; estimating distances and determining speed and direction of other objects; turning cranks and wheels; pushing clutches or brakes; and pushing or pulling gear lifts or levers. Includes such machines as cranes, conveyor systems, tractors, furnace charging machines, paving machines and hoisting machines. Excludes manually powered machines, such as handtrucks and dollies, and power assisted machines, such as electric wheelbarrows and handtrucks.
- 4 **Manipulating:** Using body members, tools, or special devices to work, move, guide, or place objects or materials. Involves some latitude for judgment with regard to precision attained and selecting appropriate tool, object, or material, although this is readily manifest.
- 5 **Tending:** Starting, stopping, and observing the functioning of machines and equipment. Involves adjusting materials or controls of the machine, such as changing guides, adjusting timers and temperature gages, turning valves to allow flow of materials, and flipping switches in response to lights. Little judgment is involved in making these adjustments.
- 6 **Feeding-Offbearing:** Inserting, throwing, dumping, or placing materials in or removing them from machines or equipment which are automatic or tended or operated by other workers.
- 7 **Handling:** Using body members, handtools, and/or special devices to work, move, or carry objects or materials. Involves little or no latitude for judgment with regard to attainment of standards or in selecting appropriate tool, object, or material.

NOTE: Included in the concept of Feeding-Offbearing, Tending, Operating-Controlling, and Setting Up, is the situation in which the worker is actually part of the setup of the machine, either as the holder and guider of the material or holder and guider of the tool.

APPENDIX B

The following is a table explaining the various levels of general educational development.

GENERAL EDUCATIONAL DEVELOPMENT

Level	Reasoning Development	Mathematical Development	Language Development
6	Apply principles of logical or scientific thinking to a wide range of intellectual and practical problems. Deal with non-verbal symbolism (formulas, scientific equations, graphs, musical notes, etc.) in its most difficult phases. Deal with a variety of abstract and concrete variables. Apprehend the most abstruse classes of concepts.	Apply knowledge of advanced mathematical and statistical techniques such as differential and integral calculus, factor analysis, and probability determination, or work with a wide variety of theoretical mathematical concepts and make original applications of mathematical procedures, as in empirical and differential equations.	Comprehension and expression of a level to —Report, write, or edit articles for such publications as newspapers, magazines, and technical or scientific journals. Prepare and draw up deeds, leases, wills, mortgages, and contracts. —Prepare and deliver lectures on politics, economics, education, or science. —Interview, counsel, or advise such people as students, clients, or patients, in such matters as welfare eligibility, vocational rehabilitation, mental hygiene, or marital relations. —Evaluate engineering technical data to design buildings and bridges.
5	Apply principles of logical or scientific thinking to define problems, collect data, establish facts, and draw valid conclusions. Interpret an extensive variety of technical instructions, in books, manuals, and mathematical or diagrammatic form. Deal with several abstract and concrete variables.		
4	Apply principles of rational systems ¹ to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Interpret a variety of instructions furnished in written, oral, diagrammatic, or schedule form.	Perform ordinary arithmetic, algebraic, and geometric procedures in standard, practical applications.	Comprehension and expression of a level to —Transcribe dictation, make appointments for executive and handle his personal mail, interview and screen people wishing to speak to him, and write routine correspondence on own initiative. —Interview job applicants to determine work best suited for their abilities and experience, and contact employers to interest them in services of agency. —Interpret technical manuals as well as drawings and specifications, such as layouts, blueprints, and schematics.
3	Apply common sense understanding to carry out instructions furnished in written, oral, or diagrammatic form. Deal with problems involving several concrete variables in or from standardized situations.	Make arithmetic calculations involving fractions, decimals and percentages.	Comprehension and expression of a level to —File, post, and mail such material as forms, checks, receipts, and bills. —Copy data from one record to another, fill in report forms, and type all work from rough draft or corrected copy. —Interview members of household to obtain such information as age, occupation, and number of children, to be used as data for surveys, or economic studies. —Guide people on tours through historical or public buildings, describing such features as size, value, and points of interest.
2	Apply common sense understanding to carry out detailed but uninvolved written or oral instructions. Deal with problems involving a few concrete variables in or from standardized situations.	Use arithmetic to add, subtract, multiply, and divide whole numbers.	
1	Apply common sense understanding to carry out simple one- or two-step instructions. Deal with standardized situations with occasional or no variables in or from these situations encountered on the job.	Perform simple addition and subtraction, reading and copying of figures, or counting and recording.	Comprehension and expression of a level to —Learn job duties from oral instructions or demonstration. —Write identifying information, such as name and address of customer, weight, number, or type of product, on tags, or slips. —Request orally, or in writing, such supplies as linen, soap, or work materials.

¹ Examples of "principles of rational systems" are: Bookkeeping, internal combustion engines, electric wiring systems, house building, nursing, farm management, ship sailing.

APPENDIX C

Specific Vocational Preparation: The amount of time required to learn the techniques, acquire information, and develop the facility needed for average performance in a specific job-worker situation. This training may be acquired in a school, work, military, institutional, or avocational environment. It does not include orientation training required of even every fully qualified worker to become accustomed to the special conditions of any new job. Specific vocational training includes training given in any of the following circumstances:

- a. Vocational education (such as high school commercial or shop training, technical school, art school, and that part of college training which is organized around a specific vocational objective);
- b. Apprentice training (for apprenticeable jobs only);
- c. In-plant training (given by an employer in the form of organized classroom study);
- d. On-the-job training (serving as learner or trainee on the job under the instruction of a qualified worker);
- e. Essential experience in other jobs (serving in less responsible jobs which lead to the higher grade job or serving in other jobs which qualify).

The following is an explanation of the various levels of specific vocational preparation.

<i>Level</i>	<i>Time</i>
1	Short demonstration only.
2	Anything beyond short demonstration up and including 30 days.
3	Over 30 days up to and including 3 months.
4	Over 3 months up to and including 6 months.
5	Over 6 months up to and including 1 year.
6	Over 1 year up to and including 2 years.
7	Over 2 years up to and including 4 years.
8	Over 4 years up to and including 10 years.
9	Over 10 years.

