

OCCUPATIONAL STATUS SCORES: STABILITY AND CHANGE*

Charles B. Nam and John LaRocque, Florida State University, and
Mary G. Powers and Joan Holmberg, Fordham University

Occupational status has long been recognized as one of the most crucial indicators of an individual's general social welfare since it reflects a person's style of life and location in the social stratification hierarchy. Moreover, the distribution of occupational statuses in a population provides a meaningful index of that population's social structure and serves to characterize the similarity or difference of its stratification system in comparison with other populations.¹

For these reasons, the measurement of occupational status has been of considerable concern to social researchers, and a number of theoretical and methodological questions have arisen in connection with efforts to derive occupational status indexes. What is the essential dimension of occupational status? Which variables should enter into its determination? What procedures should be used to calculate status measures? How stable are these status indicators over time?

Some researchers have viewed occupational status in terms of its prestige dimension and others have treated it more as a socioeconomic variable. In the first case, subjective ratings of occupations have been obtained; in the second, status has been accorded occupations on the basis of various objective variables, such as education and income.² In both cases, some type of scoring device has been developed to assign a numerical rating to a particular level of status. With regard to changes over time, occupations have been seen to retain a remarkable degree of stability over the years. While a minority of occupations have significantly increased or decreased their status, the vast majority have not altered their relative position in the stratification hierarchy. Hence, status mobility by individuals occurs³ principally through changes in their occupations.

Background of present research

One of the major occupational status scoring procedures was developed by Nam and his colleagues at the Census Bureau in connection with preparatory work for the 1960 Census of Population.⁴ There was interest at that time in constructing an occupational status index that was more detailed and homogeneous than the Alba Edwards classification scheme which, since 1930 or so, had permitted arrangement of occupations into major groupings that formed a crude social scale.⁵ The Census group decided that homogeneity could best be achieved not only by stratifying occupations per se but by developing a multiple-item index of socioeconomic status that combined independent ratings of education and income with ratings of occupations. The socioeconomic scores for chief income recipients

of families, based on this multiple-item procedure, were assigned to other family members. These scores, along with measures of status consistency, (the extent to which the three components of the score were at about the same relative levels), were placed on the computer tape records for individuals in the 1960 Census. A subject report of the 1960 Census dealt with distribution of socioeconomic scores for various populations and the relationship of the multiple-item status measures to other population characteristics.⁶

The occupational component of the multiple-item index itself was found useful as a measure of socioeconomic status. The status placement of individuals could be made more precisely through the multiple-item index because account could be taken of the variation within occupations by education and income levels. However, construction of the multiple-item index from non-census data was often a problem due to the difficulty of collecting data on income and education as well as occupation in surveys, and many researchers apparently preferred a simpler indicator of status than the multiple-item Census scheme.

Work on the occupational component was continued by Nam and Powers, who compared the status scores for detailed occupations based on 1950 and 1960 data.⁷ They concluded that there was a high degree of stability of scores over the ten-year period, although for several specific occupations the status level changed significantly downward or upward.

In plans for the 1970 Census, the Census Bureau decided to drop the practice of generating socioeconomic scores using any procedure.

Considerations in the preparation of 1970 status scores

One characteristic of occupational status measures in the past, regardless of the way in which they were developed, is that almost all of them have been based on information for men. The theoretical justifications have been that men are the principal workers in most families and that those who are the chief earners determine the status of the family as a whole;⁸ furthermore, there were relatively few women in the labor force and they were concentrated in a relatively small number of occupations. While these arguments may have been valid in American society at one time, they are no longer valid at present. Women have become increasingly involved in the labor force, labeling of occupations as exclusively men's or women's is disappearing, requirements for occupational pursuits and rewards from jobs are becoming more and more standardized irrespective of who is the incumbent, and

relatively more families have two or more persons in the labor force.

In preparing occupational status scores for 1970, we decided to calculate them for women as well as men, and also for both sexes combined. Because a high proportion of women only do part-time work, separate calculations have been made for women who were full-time workers. Data users can judge for themselves which set of scores is most applicable for a particular analysis.

For each of the categories, the procedures for deriving the scores are essentially the same, being based on the combined average levels of education and income for incumbents of the occupation. More specifically, the procedure involved: (a) arraying occupations according to the median educational level of persons in the experienced civilian labor force, (b) arraying the occupations separately according to the median income level of each occupation, (c) by using the number of persons engaged in each occupation as weights, determining the cumulative interval of persons in each occupation for each of the two arrays, and (d) averaging the midpoints of the two cumulative distributions of occupants and dividing by the experienced civilian labor force to get a status score for the occupation. The resulting scores can take values between 0 and 100, and a score indicates the approximate percentage of persons in the experienced civilian labor force who are in occupations having combined average levels of education and income below that for the given occupation.

Occupational status scores for 1970

An examination of the distribution of status scores for each of the four populations of workers studied (men, women, women working full-time, and both sexes combined) reveals wide dispersal of scores. The 589 occupations are located along the whole status continuum from 0 to 100, partly as a function of the calculation procedures but mainly because of the great socioeconomic diversity among occupations.

Among males, for example, 4.2 percent of the occupations have status scores between 95 and 100, 8.0 percent have scores between 90 and 95, and so forth. Every five-percent interval of the status range includes no less than 3.7 percent of the occupations and no more than 8.0 percent of them. This essentially rectangular distribution is found for women as well as men, although for the former there are smaller percentages of occupations in the lowest status decile.

These data also confirm the fact that the major occupational groupings of the census are not at all homogeneous and that the major groupings constitute too crude a status scale to be useful in socioeconomic analysis. Among males, one half of the detailed occupations under the category "Professional, technical and kindred workers" have status scores between 90 and 100;

and two-thirds have status scores between 80 and 100; but one-third of them have scores less than 80, with a number of them ranging between 40 and 59. The status scores for clerical occupations are widely distributed with over one-fourth of them below 45 and one-third of them 65 or above. Some service occupations have status scores of near zero while others have scores near or over 70. These variations are common for women as well as men.

Changes in occupational status scores over time

It is a troublesome task to measure changes in the status level of occupations over time since the occupational classification system of the Bureau of the Census is modified at each census period. In calculating and comparing status scores for 1950 and 1960, Nam and Powers developed a common list of detailed occupations for the two dates by combining occupations that were subdivided or merged. Only a relatively small percentage of occupations did not have identical titles at the two dates.

In 1970, however, a major reclassification of the occupational list was made. New occupational titles were identified in order to (1) increase the homogeneity of the detailed occupations and (2) to reduce the number of persons listed under occupations n.e.c. (not elsewhere classified). In addition, some job titles were shifted from one major group to another because of the changing nature of the work; some categories were eliminated and the components combined with other occupations; and some occupations that had large number of incumbents were subdivided where occupational distinctions could be made within them. As a result, anyone who tries to compare detailed occupations for 1960 and 1970 is faced with an almost insuperable undertaking.

At the present time, we have developed essential matches for 126 detailed occupations. Most of these were classified identically in the 1960 and 1970 censuses, but some were changed slightly so that no more than one percent of the incumbents were classified differently in the two censuses. Although we cannot claim that the 126 occupations are a representative selection of the total 589 occupations in the detailed list, the matched occupations cover all major groupings and the distribution of status scores is not unlike that of the complete list.

When Nam and Powers compared the full list of detailed occupations for men for 1950 and 1960, they calculated a correlation coefficient between the two sets of scores of .96. The 1950-1960 correlation coefficient using the 126 occupations is .95. Our calculation for men in the 126 occupations in 1960 and 1970 provides a correlation coefficient of .97, indicating that an extremely high degree of stability in status scores has been maintained. Even the correlation coefficient between scores for men in 1950 and 1970 is .91. For all women combined, the coefficient for 1960-1970 was .85, reasonably high but

much lower than for men. Apparently, the changing roles of women in recent years has modified the status levels of some occupations in a significant way.

An examination of the scores for specific occupations shows that, while for the vast majority of occupations the status scores changed very little between censuses, for a minority of occupations the changes were notable and most often in a downward direction.

As we continue our study, we will be delving further into the dynamics of these status changes, as well as exploring the reasons the relative status levels of many occupations remain basically unchanged while demographic and socioeconomic transformations are obviously taking place in American society.

FOOTNOTES

*This report is part of an ongoing study of the dynamics of occupational status changes supported by the National Science Foundation under Grant GS-40919 to Florida State University and Fordham University.

1. Useful reviews of occupational status and its links to societal processes are included in Albert J. Reiss, Jr., Occupations and Social Status (New York: The Free Press of Glencoe, 1961); Ronald M. Pavalko, Sociology of Occupations and Professions (Itasca, Illinois: Peacock, 1971); and John P. Robinson et al., Measures of Occupational Attitudes and Occupational Characteristics (Ann Arbor: Institute for Social Research, University of Michigan, 1969).

2. While these two dimensions are highly associated, there is a tendency for occupational status to vary more over time than occupational prestige. See Pavalko, op.cit., pp. 132, 140.
3. Charles B. Nam and Mary G. Powers, "Changes in the Relative Status Level of Workers in the United States, 1950-1960," Social Forces, 47 (December, 1968), pp. 158-177.
4. U.S. Bureau of the Census, Methodology and Scores of Socioeconomic Status, Working Paper No. 15 (Washington: U.S. Bureau of the Census, 1963).
5. U.S. Bureau of the Census, A Social-Economic Grouping of the Gainful Workers of the United States: 1930, (Washington: U.S. Government Printing Office, 1938).
6. U.S. Bureau of the Census, U.S. Census of Population: 1960, Subject Reports, Socio-economic Status, Final Report PC(2)-5C (Washington: U.S. Government Printing Office, 1967).
7. Nam and Powers, op.cit.
8. This position has prevailed in the social science literature for a long period of time, and is presented in Thomas E. Lasswell, Class and Stratum (Boston: Houghton Mifflin, 1965), pp. 332-336. For a qualification of this position, see Walter B. Watson and Ernest A. T. Barth, "Questionable Assumptions in the Theory of Social Stratification," Pacific Sociological Review, 7:1 (Spring, 1964), pp. 10-16.
9. We are attempting to develop status scores for family units based on the status attributes of all family members.
10. Stanley Greene et al., "The 1970 Census of Population Occupation Classification System", Statistical Reporter, No. 70-6, December 1969, pp. 77-84.

1970 OCCUPATIONAL STATUS SCORES FOR MALES (TM), FEMALES (TF), FEMALE, FULL-TIME YEAR-ROUND WORKERS (F-F), AND BOTH SEXES COMBINED (TBS)

	TM	TF	F-F	TBS		TM	TF	F-F	TBS
Professional, Technical and Kindred Workers					Dentists	93	91	99	99
Accountants	83	87	87	89	Optometrists	98	98	96	99
Architects	95	99	100	97	Pharmacists	93	91	97	94
Computer Specialists					Physicians, Medical and Osteopathic	99	100	100	99
Computer Programmers	84	95	97	89	Podiatrists	98	80	100	99
Computer Systems Analysts	91	96	97	93	Veterinarians	98	93	100	99
Computer Specialists, n.e.c.	91	94	95	93	Health Practitioners, n.e.c.	87	99	100	94
Engineers					Registered Nurses, Dietitians and Therapists				
Aeronautical and Astronautical	96	96	98	96	Dietitians	51	77	83	56
Chemical	96	98	97	97	Registered Nurses	62	87	91	66
Civil	93	96	98	95	Therapists	72	88	92	73
Electrical and Electronic	94	96	97	95	Health Technologists and Technicians				
Industrial	91	93	94	93	Clinical Laboratory Technologists and Technicians	68	88	90	70
Mechanical	94	96	98	95	Dental Hygienists	85	91	95	70
Metallurgical and Materials	95	96	97	96	Health Record Technologists and Technicians	55	90	89	68
Mining	92	96	97	94	Radiologic Technologists and Technicians	70	79	85	64
Petroleum	95	96	97	96	Therapy Assistants	61	59	39	54
Sales	93	96	97	94	Health Technologists and Technicians, n.e.c.	64	75	61	63
Engineers, n.e.c.	93	96	98	94	Religious Workers				
Farm Management Advisors	90	87	97	94	Clergymen	68	62	59	77
Foresters and Conservationists	70	37	49	78	Religious Workers, n.e.c.	61	59	70	59
Home Management Advisors	58	94	98	77	Social Scientists				
Lawyers and Judges					Economists	95	95	97	96
Judges	98	95	100	99	Political Scientists	97	99	99	98
Lawyers	98	100	100	99	Psychologists	96	100	100	96
Librarians, Archivists and Curators					Sociologists	93	95	99	94
Librarians	72	94	98	75	Urban and Regional Planners	91	96	99	95
Archivists and Curators	72	91	97	80	Social Scientists, n.e.c.	91	89	99	91
Mathematical Specialists					Social and Recreation Workers				
Actuaries	97	92	92	94	Social Workers	80	93	96	82
Mathematicians	97	97	98	96	Recreation Workers	57	56	90	58
Statisticians	91	94	95	88	Teachers, College and University				
Life and Physical Scientists					Agriculture	95	95	99	97
Agricultural	87	68	93	91	Atmospheric and Space	94	64	97	96
Atmospheric and Space	95	82	98	95	Biology	95	95	100	96
Biological	91	96	98	91	Chemistry	95	96	100	97
Chemists	92	97	98	94	Physics	94	100	99	97
Geologists	97	87	98	97	Engineering	97	88	99	98
Marine	95	96	98	96	Mathematics	92	95	99	95
Physicists and Astronomers	98	99	99	99	Health Specialties	93	99	100	96
Life and Physical, n.e.c.	97	96	98	97	Psychology	97	100	100	96
Operations and Systems Researchers and Analysts	88	95	94	91	Business and Commerce	95	96	98	95
Personnel and Labor Relations Workers	89	90	92	89	Economics	97	100	99	98
Physicians, Dentists and Related Practitioners					History	93	98	100	95
Chiropractors	93	70	97	95	Sociology	93	96	100	94

	TM	TF	F-FT	TBS
Social Science Teachers, n.e.c.	95	100	100	96
Art, Drama and Music	91	90	99	92
Coaches and Physical Education	91	99	99	94
Education	98	100	100	98
English	91	96	99	91
Foreign Language	91	95	99	89
Home Economics	96	99	100	87
Law	98	95	99	99
Theology	88	94	99	91
Trade, Industrial and Technical	89	86	99	90
Miscellaneous Teachers, College and University	92	99	100	94
Teachers, College and University, Subject Not Specified	89	83	99	87
Teachers, Except College and University				
Adult Education	84	81	91	81
Elementary School				
Public	79	95	96	80
Private	67	79	88	66
Prekindergarten and Kindergarten				
Public	52	92	91	72
Private	55	52	53	47
Secondary School				
Public	85	98	98	86
Private	75	89	91	77
Teachers, Except College and University, n.e.c.	64	55	91	52
Engineering and Science Technicians				
Agriculture and Biological Technicians, Except Health	60	70	70	65
Chemical Technicians	72	86	82	79
Draftsmen	73	87	86	80
Electrical and Electronic Engineering	76	77	73	82
Industrial Engineering	74	84	82	79
Mechanical Engineering	80	72	82	86
Mathematical	81	85	82	86
Surveyors	61	38	79	72
Engineering and Science Technicians, n.e.c.	67	83	77	77
Technicians, Except Health Engineering and Science				
Airplane Pilots	93	95	76	94
Air Traffic Controllers	84	88	82	85
Embalmers	65	83	76	75
Flight Engineers	89	83	76	91
Radio Operators	57	50	49	60
Tool Programmers, numerical control	83	91	76	87
Technicians, n.e.c.	67	88	83	79
Vocational and Educational Counselors	91	99	99	92
Writers, Artists and Entertainers				
Actors	64	85	92	71
Athletes and Kindred Workers	54	47	68	56
Authors	89	92	97	90
Dancers	47	40	50	40
Designers	87	88	95	89
Editors and Reporters	89	91	95	86
Musicians and Composers	45	49	88	49
Painters and Sculptors	81	71	89	77
Photographers	69	57	56	75
Public Relations Men and Publicity Writers	90	91	96	91
Radio and Television Announcers	59	59	89	71
Writers, Artists and Entertainers, n.e.c.	80	76	94	80
Research Workers, Not Specified	88	87	97	86
Professional, Technical and Kindred Workers, n.e.c.	76	78	89	72
Managers and Administrators, Except Farm				
Assessors, Controllers and Treasurers, Local Public Administration	71	65	61	67
Bank Officers and Financial Managers	89	85	83	90
Buyers and Shippers, Farm Products	60	46	77	65
Buyers, Wholesale and Retail Trade	79	83	77	78
Credit Men	81	75	74	80
Funeral Directors	75	89	90	85
Health Administrators	91	94	95	90
Construction Inspectors, Public Administration	72	76	77	77
Inspectors, Except Construction; Public Administration				
Federal Public Administration and Postal Service	79	77	78	84
State Public Administration	69	72	60	77
Local Public Administration	68	79	88	74
Managers and Superintendents, Building	61	40	31	55
Office Managers, n.e.c.	83	85	84	81
Officers, Pilots and Purseurs, Ship	62	88	77	63
Officials and Administrators; Public Administration, n.e.c.				
Federal Public Administration and Postal Service	92	93	94	92
State Public Administration	84	88	90	88
Local Public Administration	77	79	81	79
Officials of Lodges, Societies and Unions	82	89	95	86
Postmasters and Mail Superintendents	78	73	76	78
Purchasing Agents and Buyers, n.e.c.	82	88	86	87
Railroad Conductors	68	68	77	69
Restaurant, Cafeteria and Bar Managers	64	41	34	56
Sales Managers and Department Heads, Retail Trade	76	66	53	74
Sales Managers, Except Retail Trade	92	91	93	94
School Administrators, College	97	99	99	97
School Administrators, Elementary and Secondary	97	99	99	97
Managers and Administrators, n.e.c., Salaried				
Construction	81	81	85	81
Durable Goods Manufacturing	92	89	89	93
NonDurable Goods, Incl. Not Specified Manufacturing	90	83	83	92
Transportation	81	88	87	85
Communications, Utilities and Sanitary Services	86	88	88	88
Wholesale Trade	86	88	84	88
Retail Trade				
Hardware, Farm Equipment and Building Material Retailing	76	79	79	82
General Merchandise Stores	78	66	54	79
Food Stores	70	51	42	70
Motor Vehicles and Accessories Retailing	74	83	89	80
Gasoline Service Stations	45	51	52	53
Apparel and Accessories Stores	81	72	69	77
Furniture, Home Furnishings and Equipment Stores	82	79	79	84
Other Retail Trade	76	71	61	79
Finance, Insurance and Real Estate	91	86	84	92
Business and Repair Services	87	92	92	89
Personal Services	51	42	32	51
All Other Industries	90	92	96	91
Managers and Administrators, n.e.c., Self-Employed				
Construction	67	73	77	69
Durable Goods, Manufacturing	69	43	31	72
NonDurable Goods, Incl. Not Specified Manufacturing	81	58	65	83
Transportation	65	73	75	67
Communications, Utilities and Sanitary Services	73	47	29	71
Wholesale Trade	76	72	64	78
Retail Trade				
Hardware, Farm Equipment and Building Material Retailing	73	60	46	75
General Merchandise Stores	68	48	29	60
Food Stores	44	25	12	44
Motor Vehicles and Accessories Retailing	73	50	48	75
Gasoline Service Stations	50	26	18	57
Apparel and Accessories Stores	84	67	55	74
Furniture, Home Furnishings and Equipment Stores	73	55	48	74
Other Retail Trade	66	46	34	63
Finance, Insurance and Real Estate	93	88	89	93
Business and Repair Services	71	79	79	75

	TM	TF	F-FT	TBS
Personal Services	60	44	28	53
All Other Industries	74	59	50	74
Managers and Administrators, Except Farm-Allocated	67	51	51	67
Sales Workers				
Advertising Agents and Salesmen	86	83	88	86
Auctioneers	86	31	30	69
Demonstrators	64	28	48	31
Hucksters and Peddlers	41	24	21	28
Insurance Agents, Brokers and Underwriters	82	74	76	85
Newboys	11	20	16	23
Real Estate Agents and Brokers	84	71	84	81
Stock and Bond Salesmen	95	89	89	95
Salesmen and Sales Clerks, n.e.c.				
Sales Representatives, Manufacturing Industries	86	49	70	88
Sales Representatives, Wholesale Trade	76	49	54	81
Sales Clerks, Retail Trade				
General Merchandise Stores	44	63	23	32
Food Stores	30	19	14	24
Apparel and Accessories Stores	37	32	25	34
Other Sales Clerks, Retail Trade	45	29	23	37
Salesmen, Retail Trade	61	37	38	65
Salesmen of Services and Construction	77	32	51	67
Sales Workers-Allocated	44	26	21	34
Clerical and Kindred Workers				
Bank Tellers	50	61	47	49
Billing Clerks	56	60	51	48
Bookkeepers	64	62	57	52
Cashiers	32	29	31	29
Clerical Assistants, Social Welfare	51	56	51	49
Clerical Supervisors, n.e.c.	83	84	81	79
Collectors, Bill and Account	55	57	54	61
Counter Clerks, Except Food	45	38	35	37
Dispatchers and Starters, Vehicle	62	47	48	63
Enumerators and Interviewers	48	40	79	40
Estimators and Investigators, n.e.c.	81	70	67	76
Expeditors; Production Controllers	70	74	69	72
File Clerks	41	46	42	41
Insurance Adjusters, Examiners and Investigators	80	82	79	83
Library Attendants and Assistants	42	51	76	44
Mail Carriers, Post Office	64	61	73	71
Mail Handlers, Except Post Office	39	45	37	41
Messengers, Incl. Telegraph and Office Boys	31	31	28	28
Motor Readers, Utilities	46	55	50	56
Office Machine Operators				
Bookkeeping and Billing Machine	51	60	50	47
Calculating Machine	54	61	55	52
Computer and Peripheral Equipment	63	76	76	67
Duplicating Machine	42	54	46	46
Keypunch	60	65	60	69
Tabulating Machine	51	67	69	56
Office Machine, n.e.c.	42	50	42	44
Payroll and Timekeeping Clerks	64	72	69	57
Postal Clerks	66	76	74	68
Proofreaders	70	61	61	54
Real Estate Appraisers	88	81	87	91
Receptionists	44	54	46	43
Secretaries	66	76	76	56
Shipping and Receiving Clerks	41	45	34	50
Statistical Clerks	66	71	61	59
Stenographers	81	76	75	58
Stock Clerks and Storekeepers	42	51	50	49
Teacher Aides, Except School Monitors	42	40	38	37
Telegraph Operators	64	72	71	67
Telephone Operators	49	55	52	44
Ticket, Station and Express Agents	70	88	87	74
Typists	48	56	54	46
Weighers	40	36	41	44
Industry				
Manufacturing	67	65	60	57
Transportation, Communications, and Other Public Utilities	65	76	68	61
Wholesale and Retail Trade	44	44	38	41
Finance, Insurance and Real Estate	53	61	53	51
Professional and Related Services	47	59	53	29
Public Administration	63	76	76	59
All Other Industries	51	41	39	41
Clerical and Kindred Workers-Allocated	54	41	45	39
Craftsmen and Kindred Workers				
Automobile Accessories Installers	35	47	48	43
Bakers	24	25	20	34
Cabinetmakers	30	30	25	41
Carpenter Installers	41	51	48	51
Construction Craftsmen				
Brickmasons and Stonemasons	35	52	42	46
Bulldozer Operators	23	48	49	34
Carpenters	33	51	56	42
Cement and Concrete Finishers	21	47	57	32
Electricians	66	64	64	70
Excavating, Grading and Road Machine Operators, Except Bulldozers	30	49	45	41
Floor Layers, Except Tile Setters	41	51	57	48
Painters, Construction and Maintenance	18	40	46	32
Paperhangers	28	17	57	39
Plasterers	33	64	57	42
Plumbers and Pipe Fitters	57	65	66	62
Roofers and Slaters	18	42	57	32
Structural Metal Craftsmen	58	59	53	61
Tile Setters	42	43	57	50
Cranemen, Derricksmen and Hoistmen	39	57	55	46
Decorators and Window Dressers	53	45	36	46
Dental Laboratory Technicians	60	57	47	61
Electric Power Linemen and Cablemen	66	63	64	70
Engravers, Except Photoengravers	46	45	47	50
Foremen, n.e.c.				
Construction	60	61	60	62
Manufacturing				
Metal Industries	70	64	61	71
Machinery, Except Electrical	75	76	71	76
Electrical Machinery, Equipment and Supplies	78	64	58	78
Transportation Equipment	77	76	72	77
Other Durable Goods	65	60	56	65
Food and Kindred Products	61	42	50	63
Textiles, Textile Products and Apparel	50	46	31	48
Other NonDurable Goods, Incl. Not Specified Manufacturing	78	62	57	72
Transportation	66	67	62	67
Communications, Utilities and Sanitary Services	76	85	86	77
Wholesale and Retail Trade	65	64	51	67
All Other Industries	65	72	61	66
Furniture and Wood Finishers	22	29	14	30
Furriers	44	23	48	46
Glaziers	50	43	48	56
Inspectors, Scalers and Graders; Log and Lumber	26	28	19	36
Inspectors, n.e.c.	61	37	36	66
Jewelers and Watchmakers	49	39	29	53
Locomotive Engineers	69	69	48	69
Locomotive Firemen	69	47	48	72
Mechanics and Repairmen				
Air Conditioning, Heating and Refrigeration	54	65	64	61

	TM	TF	F-FT	TBS		TM	TF	F-FT	TBS
Aircraft	68	65	64	72	Construction and Material Handling Machines	51	54	42	57
Automobile Body Repairmen	37	50	51	47	Metalworking Machinery	52	41	39	54
Automobile Mechanics	36	55	54	45	Office and Accounting Machines and Electronic				
Data Processing Machine Repairmen	78	76	73	85	Computing Equipment	54	50	46	50
Farm Implement	33	60	58	48	Other Machinery, Except Electrical	43	44	41	47
Heavy Equipment Mechanics, Incl. Diesel	50	59	57	57	Electrical Machinery, Equipment and Supplies				
Household Appliance and Accessory Installers and Mechanics	50	46	56	58	Household Appliances	37	35	29	41
Leak Fixers	18	60	58	30	Radio, T.V. and Communication Equipment	52	56	47	46
Office Machine	61	74	65	69	Electrical Machinery, Equipment and Supplies, n.e.c.	40	42	32	40
Radio and Television	56	54	59	60	Not Specified Electrical Machinery, Equipment				
Railroad and Car Shop	43	66	58	50	and Supplies	45	41	29	40
Miscellaneous Mechanics and Repairmen	53	60	58	60	Transportation Equipment				
Mechanics, Except Auto, Apprentices	52	62	58	58	Motor Vehicles and Motor Vehicle Equipment	49	56	56	52
Not Specified Mechanics and Repairmen	51	54	44	56	Aircraft and Parts	53	60	57	58
Metal Craftsmen, Except Mechanics					Other Transportation Equipment	29	33	22	38
Blacksmiths	26	52	56	37	Professional and Photographic Equipment and Watches	50	58	27	43
Boilermakers	51	68	56	56	Ordnance	70	57	49	46
Forgemen and Hammermen	42	47	39	48	Miscellaneous Manufacturing Industries	21	29	19	22
Heat Treaters, Annealers and Temperers	47	58	56	53	Durable Goods-Allocated	32	33	25	36
Job and Die Setters, Metal	50	56	51	54	Nondurable Goods				
Machinists	57	48	55	62	Food and Kindred Products				
Millwrights	60	63	64	62	Meat Products	20	19	13	19
Molders, Metal	30	39	28	38	Dairy Products	38	29	29	46
Pattern and Model Makers, Except Paper	70	65	61	72	Canning and Preserving Fruits, Vegetables, and				
Rollers and Finishers, Metal	60	48	46	63	Seafoods	08	11	12	09
Sheetmetal Workers and Tinsmiths	59	57	62	63	Bakery Products	24	37	30	31
Shipfitters	52	52	56	58	Beverage Industries	41	39	35	45
Tool and Die Makers	70	64	64	73	Other Food and Kindred Products	21	30	23	30
Millers, Grain, Flour and Feed	14	47	48	27	Tobacco Manufacturers	18	25	17	20
Motion Picture Projectionists	39	48	48	50	Apparel and Other Fabricated Textile Products				
Opticians and Lens Grinders and Polishers	62	68	67	61	Apparel and Accessories	12	25	12	15
Piano and Organ Tuners and Repairmen	44	47	43	54	Miscellaneous Fabricated Textile Products	09	24	10	16
Power Station Operators	71	71	75	75	Paper and Allied Products				
Printing Craftsmen					Pulp, Paper and Paperboard Mills	52	51	48	56
Bookbinders	52	37	29	40	Miscellaneous Paper and Pulp Products	40	36	24	38
Compositors and Typesetters	61	48	45	64	Paperboard Containers and Boxes	27	31	23	33
Electrotypers and Stereotypers	65	45	42	68	Printing, Publishing and Allied Industries	44	37	29	41
Photengravers and Lithographers	73	59	52	75	Chemicals and Allied Products				
Pressmen and Plate Printers, Printing	60	48	46	63	Industrial Chemicals	60	62	62	65
Shoe Repairmen	11	27	12	18	Synthetic Fibers	43	56	54	49
Sign Painters and Letterers	39	30	36	48	Soaps and Cosmetics	49	40	38	41
Stationary Engineers	60	63	61	64	Other Chemicals and Allied Products	54	62	41	57
Stone Cutters and Stone Carvers	20	23	48	33	Petroleum and Coal Products	65	62	21	68
Tailors	22	28	19	28	Rubber and Miscellaneous Plastic Products	48	44	35	48
Telephone Installers and Repairmen	68	76	65	74	Rubber Products	32	33	24	29
Telephone Linemen and Splicers	60	70	40	69	Miscellaneous Plastic Products				
Upholsterers	23	29	19	33	Leather and Leather Products	14	27	17	24
Craftsmen and Kindred Workers, n.e.c.	45	36	29	49	Tanned, Curried and Finished Leather	11	27	17	17
Former Members of the Armed Forces	38	36	48	42	Footwear, Except Rubber	14	25	10	15
Craftsmen and Kindred Workers-Allocated	36	28	22	44	Leather Products, Except Footwear	25	26	16	24
<u>Operatives, Except Transport</u>					Nondurable Goods-Allocated	24	28	25	26
Asbestos and Insulation Workers	58	44	22	61	Not Specified Manufacturing Industries				
Assemblers	41	42	33	41	Nonmanufacturing Industries				
Blenders and Powdermen	26	31	22	36	Construction	30	28	44	32
Bottling and Canning Operatives	26	18	23	22	Railroads and Railway Express Service	19	25	22	32
Chainmen, Rodmen and Axmen; Surveying	35	31	22	44	Transportation, Except Railroads	52	27	45	57
Checkers, Examiners and Inspectors; Manufacturing	42	41	32	47	Communications, Utilities and Sanitary Services	50	66	62	56
Clothing Ironers and Pressers	12	19	08	11	Wholesale Trade	20	20	20	24
Cutting Operatives, n.e.c.	28	28	17	33	Retail Trade	20	24	16	24
Dressmakers and Seamstresses, Except Factory	12	23	18	18	Business and Repair Services	29	31	31	37
Drillers, Earth	36	38	35	44	Public Administration	45	51	57	51
Dry Wall Installers and Lathers	45	46	22	51	All Other Industries	24	28	20	28
Dyers	16	33	26	29	<u>Operatives, Except Transport-Allocated</u>	16	16	15	22
Garage Workers and Gas Station Attendants	19	16	12	20	<u>Transport Equipment Operatives</u>				
Graders and Sorters, Manufacturing	20	23	18	17	Boatmen and Canalmen	27	25	42	37
Produce Graders and Packers, Except Factory and Farm	04	10	05	05	Bus Drivers	36	24	23	40
Laundry and Drycleaning Operatives, n.e.c.	15	18	07	14	Conductors and Motormen, Urban Rail Transit	60	29	42	63
Meat Cutters and Butchers, Except Manufacturing	47	26	25	54	Deliverymen and Routemen	38	31	37	48
Meat Cutters and Butchers, Manufacturing	31	20	14	33	Fork Lift and Tow Motor Operatives	27	55	50	38
Meat Wrappers, Retail Trade	20	40	43	29	Motormen: Mine, Factory, Logging Camp, etc.	28	29	42	37
Metalworking Operatives, Except Precision Machine					Parking Attendants	18	28	42	25
Fileers, Polishers, Sanders and Buffers	19	30	23	30	Railroad Brakemen	61	59	42	65
Furnacemen, Smeltersmen, and Pourers	35	50	49	43	Railroad Switchmen	60	70	64	65
Heaters, Metal	42	39	30	49	Taxicab Drivers and Chauffeurs	26	29	21	35
Metal Platers	37	43	34	45	Truck Drivers	31	51	51	41
Punch and Stamping Press Operatives	37	40	30	40	Transport Equipment Operative-Allocated	21	26	24	34
Riveters and Fasteners	26	33	23	23	<u>Laborers, Except Farm</u>				
Solderers	26	41	31	29	Animal Caretakers, Except Farm	20	25	23	25
Welders and Flame Cutters	41	45	40	49	Carpenters' Helpers	06	22	20	14
Milliners	27	26	20	19	Construction Laborers, Except Carpenters' Helpers	13	28	42	24
Mine Operatives, n.e.c.					Fishermen and Oystermen	07	06	20	16
Coal Mining	25	47	39	35	Freight and Material Handlers	25	34	26	35
Crude Petroleum and Natural Gas Extraction	41	34	23	48	Garbage Collectors	08	25	34	22
Mining and Quarrying, Except Fuel	31	54	39	42	Gardeners and Groundkeepers, Except Farm	06	12	17	14
Mixing Operatives	33	35	35	43	Longshoremen and Stevedores	29	53	20	40
Oilers and Greasers, Except Auto	31	40	44	41	Lumbermen, Raftsmen and Woodchoppers	04	16	11	12
Packers and Wrappers, Except Meat and Produce	25	31	23	24	Stock Handlers	19	26	22	19
Painters, Manufactured Articles	25	34	22	36	Teamsters	08	24	20	19
Photographic Process Workers	53	47	42	51	Vehicle Washers and Equipment Cleaners	10	18	16	15
Precision Machine Operatives					Warehousesmen, n.e.c.	40	52	47	49
Drill Press Operatives	39	42	38	42	<u>Industry</u>				
Grinding Machine Operatives	47	53	49	52	Manufacturing				
Lathe and Milling Machine Operatives	51	50	50	59	Durable Goods				
Precision Machine Operatives, n.e.c.	53	37	34	56	Lumber and Wood Products, Except Furniture	05	16	13	13
Sailors and Deckhands	23	43	22	36	Furniture and Fixtures	05	23	19	14
Sawyers	08	30	19	19	Stone, Clay and Glass Products				
Sewers and Stitches	11	26	13	14	Cement, Concrete, Gypsum and Plaster Products	16	34	25	28
Shoemaking Machine Operatives	08	28	16	15	Structural Clay Products	06	34	25	17
Stationary Firemen	38	30	20	45	Other Stone, Clay and Glass Products	25	35	24	35
Textile Operatives					Primary Metal Industries				
Carding, Lapping and Combing Operatives	07	31	18	17	Blast Furnaces, Steel Works and Rolling and				
Knitters, Loopers and Toppers	17	28	18	19	Finishing Mills	28	54	45	43
Spinners, Twistors and Winders	09	26	18	16	Other Primary Iron and Steel Industries	20	42	45	30
Weavers	12	38	26	22	Primary Nonferrous Industries	28	48	45	40
Textile Operatives, n.e.c.	11	29	17	19	Fabricated Metal Industries, Inc. Not Specified Metal	17	27	15	24
Winding Operatives, n.e.c.	50	40	28	42	Machinery, Except Electrical	28	29	45	38
<u>Industry</u>					Electrical Machinery, Equipment and Supplies	27	42	32	32
Manufacturing					Transportation Equipment				
Durable Goods					Motor Vehicles and Motor Vehicle Equipment	29	59	41	40
Lumber and Wood Products, Except Furniture	10	26	14	19	Ship and Boat Building and Repairing	18	39	41	29
Furniture and Fixtures	10	26	16	17	Other Transportation Equipment	21	32	41	32
Stone, Clay and Glass Products					Professional and Photographic Equipment and Watches	25	33	24	28
Glass and Glass Products	42	38	37	44	Ordnance	21	56	49	37
Cement, Concrete, Gypsum and Plaster Products	17	24	27	31	Miscellaneous Manufacturing Industries	06	21	14	13
Other Stone, Clay and Glass Products	21	33	23	32	Manufacturing, Durable Goods-Allocated	07	32	-	15
Primary Metal Industries					Nondurable Goods				
Blast Furnaces, Steel Works and Rolling and					Food and Kindred Products				
Finishing Mills	44	56	51	51	Meat Products	16	16	17	23
Other Primary Iron and Steel Industries	27	46	28	37	Dairy Products	33	16	14	34
Primary Nonferrous Industries	39	40	39	45	Canning and Preserving Fruits, Vegetables, and				
Fabricated Metal Industries, Incl. Not Specified Metal					Seafoods	05	12	14	10
Cutlery, Hand Tools and Other Hardware	26	41	33	32	Grain-Mill Products	13	16	14	26
Fabricated Structural Metal Products	23	30	18	34	Beverage Industries	14	16	14	27
Screw Machine Products and Metal Stamping	26	35	32	32	Other Food and Kindred Products	06	21	14	16
Miscellaneous Fabricated Metal Products and Not					Tobacco Manufacturers	05	07	16	11
Specified Metal	33	33	26	39	Textile Mill Products				
Machinery, Except Electrical	37	38	42	44	Yarn, Thread and Fabric Mills	05	19	12	13
Farm Machinery and Equipment					Other Textile Mill Products	06	26	13	15

	<u>IN</u>	<u>TF</u>	<u>F-FI</u>	<u>TSS</u>
Apparel and Other Fabricated Textile Products	08	23	14	14
Paper and Allied Products				
Pulp, Paper and Paperboard Mills	38	23	35	49
Other Paper and Allied Products	18	30	35	25
Printing, Publishing and Allied Industries	18	23	16	18
Chemicals and Allied Products	31	32	35	40
Petroleum and Coal Products	36	22	16	48
Rubber and Miscellaneous Plastic Products	29	30	25	35
Leather and Leather Products	06	52	10	14
Nondurable Goods-Allocated	03	22	16	09
Not Specified Manufacturing Industries	12	27	21	21
Nonmanufacturing Industries				
Railroads and Railway Express Service	13	29	32	26
Transportation, Except Railroads	17	31	54	28
Communications, Utilities and Sanitary Services	13	26	13	25
Transportation, Communications, Utilities and				
Sanitary Services-Allocated	03	13	-	07
Wholesale Trade	07	11	13	14
Retail Trade	08	11	14	10
Business and Repair Services	14	14	18	20
Personal Services	02	04	04	03
Public Administration	07	22	23	19
All Other Industries	08	17	10	13
Laborers, Except Farm-Allocated	07	12	11	15
Farmers and Farm Managers				
Farmers, Owners and Tenants	19	13	13	31
Farm Managers	43	35	29	52
Farmers and Farm Managers-Allocated	09	20	16	18
Farm Laborers and Farm Foremen				
Farm Foremen	22	41	64	34
Farm Laborers, Wage Workers	02	03	03	04
Farm Laborers, Unpaid Family Workers	13	17	15	15
Farm Service Laborers, Self-Employed	30	23	08	37
Farm Laborers and Farm Foremen-Allocated	01	03	01	02
Service Workers, Except Private Household				
Cleaning Service Workers				
Chambermaids and Maids, Except Private Household	14	10	03	05
Cleaners and Charwomen	07	14	06	09
Janitors and Sextons	10	16	14	19
Food Service Workers				
Bartenders	36	29	22	42
Busboys	13	11	09	12
Cooks, Except Private Household	18	16	08	14
Dishwashers	09	06	02	07
Food Counter and Fountain Workers	17	16	12	17
Waiters	24	18	13	19
Food Service Workers, n.e.c.	16	16	12	15
Health Service Workers				
Dental Assistants	40	51	49	41
Health Aides, Except Nursing	34	46	34	38
Health Trainees	35	43	45	42
Lay Midwives	20	37	28	34
Nursing Aides, Orderlies and Attendants	32	31	23	28
Practical Nurses	43	55	46	44
Personal Service Workers				
Airline Stewardesses	68	90	89	69
Attendants, Recreation and Amusement	25	22	37	24
Attendants, Personal Service, n.e.c.	27	32	31	31
Baggage Porters and Bellhops	24	38	31	30
Barbers	31	37	34	40
Boarding and Lodging Housekeepers	33	27	20	25
Bootblacks	00	37	31	02
Child Care Workers, Except Private Household	32	20	18	23
Elevator Operators	12	23	14	21
Hairdressers and Cosmetologists	46	40	34	35
Housekeepers, Except Private Household	48	36	28	36
School Monitors	40	27	44	30
Ushers, Recreation and Amusement	16	18	31	15
Welfare Service Aides	47	38	32	38
Protective Service Workers				
Crossing Guards and Bridge Tenders	07	21	15	18
Firemen, Fire Protection	69	76	72	74
Guards and Watchmen	32	42	47	43
Marshals and Constables	52	34	64	60
Policemen and Detectives				
Public	71	74	84	77
Private	54	47	54	59
Sheriffs and Bailiffs	58	72	77	65
Service Workers, Except Private Household-Allocated	11	16	12	15
Private Household Workers				
Child Care Workers, Private Household	10	09	03	10
Cooks, Private Household	06	06	01	02
Housekeepers, Private Household	06	05	02	03
Laundresses, Private Household	06	01	00	00
Maids and Servants, Private Household	02	03	01	02
Private Household Workers-Allocated	05	02	00	01