



The National Industry-Occupation Employment Matrix, 1970, 1978, and Projected 1990

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Table 1. Percent distribution of industry employment by occupation, 1970, 1978, and projected 1990

	1970	1978	1990	Coal mining	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.00	2.28	2.80	19.38	21.22		
Engineers, technical	0.87	1.00	1.35	5.81			
Chemical	-0.02	-0.01	-0.01	-0.28	-0.22		
Civil	-0.08	-0.07	-0.10	-0.23	-0.23		
Electrical	-0.01	-0.06	-0.04	-0.26	-0.25		
Industrial	-0.01	-0.09	-0.07	-0.18	-0.18		
Mechanical	-0.01	-0.06	-0.04	-0.18	-0.18		
Metallurgical	-0.01	-0.18	-0.14	-0.04	-0.04		
Mining	-0.18	-0.67	-2.25	-0.20	-0.20		
Natural resources	-0.02	-0.02	-0.02	3.16	3.02	4.01	
Other engineers	-0.01	-0.01	-0.01	-0.14	-0.12		
Other engineers	-0.02	-0.06	-0.07	-0.15	-0.12		
Life and physical sciences	0.40	2.44		-0.19	-0.20	-0.22	-0.86
Biological	0.00	0.00		0.00	0.00	0.01	0.02
Chemical	1.13	0.75		-0.15	-0.16	-0.40	-0.45
Physics	0.27	0.49		-0.04	-0.04	-0.41	-3.89
Other life and physical sciences	-0.00	-0.00		-0.00	-0.00	-0.01	-0.02
Other life and physical sciences	-0.00	-0.00		-0.00	-0.00	-0.04	-0.05
Mathematicians	-0.01	-0.01	-0.01	-0.00	-0.00	-0.03	-0.03
Other mathematicians	-0.00	-0.00	-0.00	-0.00	-0.00	-0.03	-0.03
Other mathematicians	-0.01	-0.01	-0.01	-0.00	-0.00	-0.04	-0.03
Science technicians	1.57	1.72		0.44	0.49	3.15	3.21
Other science technicians	-0.02	-0.02	-0.02	-0.00	-0.01	-0.01	-0.01
Other science technicians	-0.14	-0.08		0.00	0.00	-0.08	-0.06
Drafters	-0.41	-0.37	-0.41	-0.10	-0.10	0.90	1.00
Electrical and electronic	-0.06	-0.00	-0.01	-0.01	-0.02	-0.20	-0.26
Industrial and mechanical	-0.03	-0.04	-0.03	-0.00	-0.00	-0.06	-0.06
Systems and related	-0.27	-0.28	-0.27	-0.24	-0.24	0.32	-0.29
Other technicians	-0.65	-0.79	-1.00	-0.15	-0.20	1.00	1.22
Medical workers, except technicians	-0.10	-0.09	-0.04	-0.01	-0.01	-0.02	-0.02
Physicians and osteopaths	-0.04	-0.04	-0.03	-0.00	-0.00	-0.00	-0.00
Registered nurses	-0.06	-0.05	-0.01	-0.01	-0.01	-0.01	-0.02
Other health technicians	-0.01	-0.02	-0.01	-0.00	-0.00	-0.00	-0.00
Health technicians, except health	-0.01	-0.02	-0.01	-0.00	-0.00	-0.00	-0.00
Technicians, except health	-0.15	-0.21	-0.23	-0.05	-0.07	-0.07	-0.42
Aircraft mechanics	-0.02	-0.03	-0.02	-0.03	-0.02	-0.00	-0.00
Radio and television	-0.01	-0.02	-0.01	-0.00	-0.00	-0.00	-0.00
Tool and die makers	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Other technicians, except health	-0.11	-0.11	-0.11	-0.04	-0.05	-0.17	-0.23
Computer specialists	-0.23	-0.30	-0.36	-0.03	-0.04	-0.05	-0.05
Computer programmers	-0.18	-0.20	-0.20	-0.02	-0.03	-0.03	-0.03
Computer systems analysts	-0.08	-0.10	-0.10	-0.01	-0.02	-0.02	-0.02
Other computer specialists	-0.00	-0.00	-0.00	-0.00	-0.00	-0.04	-0.06
Mathematicians	-0.01	-0.02	-0.02	-0.01	-0.02	-0.02	-0.02
Other mathematicians	-0.01	-0.02	-0.02	-0.01	-0.02	-0.02	-0.02

The National Industry-Occupation Employment Matrix, 1970, 1978, and Projected 1990

Volume I



U.S. Department of Labor
Raymond J. Donovan, Secretary

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Preface

Over the past several decades, the Bureau of Labor Statistics has issued many publications on occupational demand and supply to assist planners of education and training programs, guidance counselors, and others involved in helping individuals plan their careers. Several of these publications also were designed to assist in developing information on occupational demand and supply for States and local areas. This bulletin, part of the Bureau's continuing program of occupational research, updates information presented in earlier publications on the occupational structure of industries.

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The National Industry-Occupation Employment Matrix: Volume I

Introduction

An industry-occupation matrix is a table depicting the occupational employment structure of industries. For each industry included, it presents the proportion of total employment accounted for by each detailed occupation. By transposing the industry-occupation matrix table (i.e., by transforming rows into columns), it is also possible to identify how total employment in a specific occupation is distributed by industry. The BLS industry-occupation matrices discussed in this bulletin divide total U.S. employment into 425 occupations and 260 industries.

This bulletin contains national matrices for 1970, 1978, and projected 1990. These data differ from matrices published previously in that they use the occupation and industry classification system of the 1970 Census of Population. The earlier matrices were based on the more limited classification system used in the 1960 Census of Population.

The primary purpose of this bulletin also differs from that of earlier publications. In the past, data on national employment by industry and occupation were designed primarily for use in preparing projections of occupational requirements for States and areas. A secondary purpose was to present projections of national occupational requirements. The information contained in this bulletin serves primarily the latter purpose.

Users of data on projections should be aware that BLS will shift the basis for its industry-occupation matrices sometime in the early 1980's from the census data used in this bulletin to data collected under a Bureau survey developed specifically for this purpose—the Occupational Employment Statistics (OES) survey. This bulletin is intended to fill the needs of data users until publication of matrices developed from OES survey data.

There are several advantages to developing current and projected employment estimates by industry and occupation using OES survey data rather than Census of Population data. The OES surveys provide information for more specific occupations and industries than is provided by census data. In addition, the OES surveys are conducted over a 3-year period rather than once every 10 years and, therefore, allow for more frequent updating of the occupational staffing patterns of industries. More information on the OES survey program can be obtained from the *BLS Handbook of Methods* (Bulletin 1910).

The text of this bulletin is divided into four sections. The first describes the 1970 industry-occupation matrix, which is the base matrix used to develop projections. It discusses both the data sources used to supplement the 1970 census, and the comparability of matrix data with census data. The second section discusses the procedures and data used to update the 1970 base matrix to 1978. The third section discusses the development of the projected 1990 matrix. It includes information about the assumptions underlying the projections and methods used to project the occupational structure of individual industries. The final section covers the procedures used to develop industry employment estimates for the 1970, 1978, and projected 1990 matrices. It identifies the differences between data collected and tabulated by the Bureau of the Census for BLS in a monthly survey of households (the Current Population Survey) and employment data tabulated by BLS which are collected by State agencies from payroll records of employers.

Table 1 presents the percentage distribution of 425 occupations and occupational groups in 260 industries and industry groups for 1970, 1978, and projected 1990. The distribution of occupational employment by industry for the same years is presented in table 2. Other information presented includes national nonagricultural employment of wage and salary workers by industry for 1970, 1978, and projected 1990 (table 3); total national employment by industry for 1970, 1978, and projected 1990 (table 4); and national 1978 employment, projected 1990 requirements, and annual openings, 1978-90, by occupation (table 5). (Tables 2-5 are found in volume II of this bulletin.)

The occupational distributions presented in tables 1 and 2 are shown to two decimal places in order to display as many cells as possible with greater than zero employment values (a ratio of .00 signifies either zero employment in the cell or a ratio of less than .005). However, as described in the following sections, data in the industry occupation matrix for past years are derived from a variety of sources which are imprecise. Therefore, the occupational ratios should be considered only as approximations rather than as exact measures. Furthermore, the projected ratios contain a substantial degree of error in some cases and should be used with caution.

The projections of industry and occupational employment requirements in this bulletin supersede

those published in previous reports in this series. They are consistent with BLS projections of the economy to 1990 which were described in *Employment Projections for the 1980's* (BLS Bulletin 2030). They were developed from the Bureau's base projection model, which assumes a moderately expanding labor force, a relatively slow decline in inflation and unemployment, and moderate government expenditures. More detailed assumptions are described in Bulletin 2030.

Because of continuous changes in the factors that affect long-run economic, industrial, and occupational growth, the Bureau revises its projections every other year. Therefore, work is already underway on revisions of projections presented in this bulletin. In the interim, users should adjust the staffing patterns in accord with their knowledge of major changes in the economy since the projections were prepared.

The 1970 matrix

The 1970 matrix is based primarily on the detailed occupation-by-industry statistics obtained from the 1970 Decennial Census.¹ However, the 1970 matrix differs from 1970 census data in three important ways: (1) Employment data from a number of other sources were used in the matrix because they are considered more reliable than some census data; (2) the matrix uses estimates of total wage and salary worker employment by industry derived from the Bureau's monthly establishment survey, and (3) the BLS matrix was made consistent with major occupational group employment estimates from the Current Population Survey (CPS). The use of such data, which are available annually, allows the matrix to be updated to current years.

Raw data from the 1970 census were used as the first step in developing the BLS 1970 matrix. Data on occupational employment from sources other than the census were then inserted into the appropriate industry-occupation cells, and revised occupational distributions were calculated for each industry. The sources include data compiled by:

- Professional societies, especially those covering medical and health occupations.
- The U.S. Department of Health, Education, and Welfare (now the Department of Health and Human Services) for teachers and librarians.
- U.S. regulatory agencies for regulated interstate industries, including railroads, airlines, telephone and telegraph communications, and pipelines.
- The U.S. Civil Service Commission (now the Office of Personnel Management) for employment of Federal Government workers.
- The Bureau of Labor Statistics, through occupational surveys of skilled technical manpower.
- The Bureau of the Census in the Current Population Survey.

One significant problem encountered in developing the matrix was the seasonal bias in census data resulting from

the April 1 reference date. The principal means of eliminating this bias was to develop 1970 annual average industry employment estimates to which the 1970 occupational ratios in each industry, as adjusted from outside sources, could be applied.

The resulting occupational employment estimates within each industry were summed to preliminary annual average national totals. Because occupational data were inserted from several sources, however, these preliminary national occupational totals did not add to annual average national employment obtained from the Current Population Survey.²

Matrix cells were made consistent with annual average industry and occupational totals through an iterative forcing procedure. (A discussion of the method used to develop industry control totals is presented in the final section.) Data for major occupational groups from the Current Population Survey were used as overall occupational control totals, but data from other sources mentioned earlier were used as control totals for several detailed occupations. The iterative procedure adjusts the internal cells of the matrix to make them consistent with known control levels by alternately forcing first to industry employment totals, then to occupation totals. The procedure is repeated until all internal cells are consistent with both the industry and occupational employment controls. Within this procedure any of the internal cells can be held constant.

Updating the 1970 matrix to 1978

Since comprehensive and reliable intercensal occupational information by industry has been meager in the past, the BLS industry-occupation matrix has been used as a tool to estimate occupational requirements for years more current than the 1970 base period. The occupational structure of most industries changes slowly; changes in industry employment have a more significant effect on the short-run growth or decline of specific occupations and on the changing occupational structure of total U.S. employment. Thus, if reliable occupational staffing patterns are available for a base year, reasonably accurate employment estimates for specific occupations in the next year can be obtained by multiplying the occupational structure of each industry in the first year by actual total employment for each industry in the second year. National totals can be derived by summing the resulting occupational employment estimates of individual industries.

These procedures yield reasonably reliable occupational estimates when updating a matrix from one year to the next. However, since the 1970 matrix was updated by 8 years rather than 1 year, it was necessary to determine whether multiplying 1970 occupational

¹*U.S. Census of Population: 1970 Occupation by Industry*, Final Report PC(2)-7C (Bureau of the Census, October 1972).

²The Current Population Survey is generally used as a benchmark for total national employment.

structures by 1978 industry employment totals yielded reliable occupational estimates for 1978. This was tested by comparing occupational estimates derived from independent sources with those derived by using 1970 staffing patterns. In a majority of the cases, the differences were of too great a magnitude to accept the matrix-derived occupational estimates. Primarily, the occupational estimates produced in this manner did not reflect changes in the occupational structure of industries that had occurred between 1970 and 1978.

In order to approximate structural changes over the 1970–78 period, the proportions of each occupation in each industry were projected from 1970 to 1978. These projections were based on the historical census trends and on an analysis of factors that likely influenced the trends, such as changes in product mix or changes in production methods. The resulting patterns for all mining and manufacturing industries were made consistent with 1970–78 production and nonproduction worker employment trends as reported in the Bureau's Current Employment Survey (CES) statistics. The projected 1978 patterns were multiplied by the respective industry employment estimates and the occupational cells summed to national totals. These estimates were also compared with those derived from independent sources, and the magnitude of the differences was analyzed. The differences calculated when 1978 estimated patterns were used were generally smaller than the differences calculated when 1970 patterns were used and, for this reason, the projected patterns were used to develop the final matrix for 1978.

Final national occupational estimates for 1978 were developed in much the same way as those for 1970. Annual average CPS data for total employment and for broad occupational groups served as control totals to which the initial estimates for specific matrix occupations were forced into consistency. Where other data sources provided better estimates than those derived from the matrix approach, they were inserted into their appropriate matrix cells and also, where applicable, used as total estimates. All other matrix cells were then made consistent with the final industry and occupation control totals by the same iterative forcing procedure used to develop the 1970 matrix.

Projecting the matrix to 1990

The Bureau's projected 1990 industry-occupational matrix and occupational projections presented in this bulletin are based on a series of assumptions about the behavior of the economy over the projection period and its characteristics in the target year. One of the most important assumptions describes the labor force in the target year. The Bureau's 1990 projections presented in this bulletin assume that the size, sex, and age composition of the labor force will change as indicated by the intermediate labor force projections published by BLS in *Employment Projections for the 1980's*. By 1990, approximately 121.5 million persons are projected to be

in the labor force. With 2.1 million persons assumed to be members of the Armed Forces, the remaining 119.4 million will constitute the civilian labor force. Finally, since the unemployment rate was assumed to decline to 4.5 percent by 1990, civilian employment was computed to be 114 million persons.

Other major assumptions underlying the national employment projections are: (1) The institutional framework of the U.S. economy will not change radically; (2) current social, technological, and scientific trends will continue; (3) no major event such as widespread or long-lasting energy shortages or war will significantly alter the industrial structure of the economy or alter the rate of economic growth; (4) inflation will decelerate to 5.2 percent annually during 1980–90; (5) a stable, long-run unemployment rate close to 4.5 percent annually will be achieved by the mid-1980's; and (6) higher energy prices will not constrain growth in gross national product.

Projection methods. Although a variety of techniques were used, the following steps generally were followed in projecting the growth of occupations to 1990: (1) Total employment requirements in each specific matrix industry were estimated (see the section on developing current and projected employment for matrix industries); (2) the occupational structure (ratios) in each specific industry was projected to 1990; (3) the occupational ratios were multiplied by the projected total employment requirements in each industry to derive an estimate of occupational requirements in each industry in 1990; and (4) total employment estimates for each specific matrix occupation were obtained by summing the projections across all industries.

Trends in the proportion of each occupation in each detailed industry were projected from historical statistics and other factors that might influence occupational structures, such as changing technology of production and shifting product mix. As a first approximation, however, 1990 occupational patterns for all specific matrix industries were obtained by extrapolating trends in the structure of industries as indicated by 1960 and 1970 census data. The resulting patterns for all mining and manufacturing industries were then made consistent with 1960–78 production and nonproduction worker employment trends reported in the establishment employment data discussed previously.

Bureau analysts studied technological, institutional, and other causes of past changes in the occupational structure of specific industries to determine whether these factors were likely to affect future occupational structures to a similar, greater, or lesser extent. Unless bases were found for modification, trends in the post-World War II period were assumed to persist to 1990. For many occupational ratios, particularly those of small size, the initial projections based on a continuation of past trends in industry-occupational composition were

used in the final matrix. Projections of ratios of large size, however, were often modified based on analysis of the underlying factors. Since an increase or decrease in proportionate employment for one occupation in a particular industry requires offsetting changes in other occupations in the industry, few of the occupational ratios that were as large as 1 percent were exact extrapolations of past trends.

Employment requirements in some occupations were projected independently of the occupation's relative importance in an industry. This technique was particularly useful for occupations that are affected by a limited number of variables and are located primarily in one industry or group of industries, such as teachers. The number of teachers required, for example, is affected by the number of pupils (which is affected by birth rates and trends in the proportion of children who attend school) and by trends in the ratio of teachers to pupils (which depends upon educational practices and financing). The requirements for physicians are related to the size of the population, the age distribution of the population, technological developments, and expenditures for health care. Other occupations that were projected directly included dentists, registered nurses, airplane pilots and mechanics, radio repairers, and business machine repairers. For occupations in which the direct projection technique as well as the industry-occupational matrix approach was used, the differences in the employment projections were analyzed and reconciled. The final estimates were then inserted into the appropriate matrix cell.

Because a variety of data sources were used to develop the occupational projections, both for total national employment and for specific industries, the occupational totals resulting from the above procedures did not add to the assumed projected civilian employment totals. The final matrix was therefore based on a reconciliation of the individual matrix cells with industry and occupational control totals and projected civilian employment through the previously described iterative forcing procedure used in developing the 1970 matrix.

Developing current and projected employment estimates for matrix industries

Estimates of industry employment used to develop the industry-occupation matrix were based on the industry configuration used to classify data in the 1970 census and in the Current Population Survey. These data include private wage and salary workers, unpaid family workers, and government workers—Federal, State, and local. The CPS and census data include the noninstitutional population 16 years of age and over, and each person is counted only once; workers with two jobs are counted in their primary occupation and in the industry where their primary job is located.

The CPS statistics, however, are based on a national survey of a sample of households. The industrial distribu-

tion of workers based on household data is not considered to be as reliable as the distribution based on the Bureau's monthly survey of establishments.³ Therefore, in developing the matrix industry employment estimates, the establishment series was used to estimate employment of wage and salary workers of industries covered, and the CPS was used to estimate employment of most other workers.

Several conceptual differences between the household and establishment series had to be reconciled. In the establishment series, workers on unpaid leave are not counted in the employment total but are counted in the household series; estimates of these workers by industry are, therefore, based on CPS household data. Also, in the establishment series a worker may be counted more than once, if he or she is employed by more than one establishment. To eliminate this double counting, a procedure was developed based upon data on multiple jobholders reported in the CPS.

A variety of other steps were taken to develop a comprehensive set of industry employment statistics that were conceptually consistent with the CPS industry configuration, including the following: Industry estimates for all classes of workers in agriculture, forestry, fisheries, direct selling establishments, nonprofit organizations, private households, and government public administration (except postal service) were based on CPS data. Estimates of State and local government workers (except public administration) in the following industry sectors were obtained from *Public Employment in 1970* (U.S. Department of Commerce, April 1971): Education, highways, welfare services, hospitals and convalescent institutions, liquor stores, sanitary services, water supply, local transportation systems, and public utilities. Estimates for Federal Government workers (except for public administration) in most industries were obtained from *Employment and Wages of Workers Covered by State Unemployment Insurance Laws and Unemployment Compensation for Federal Employees by Industry and State* (U.S. Department of Labor, 1970).

Industry projections. The Bureau's industry projections were developed under the same broad assumptions presented earlier in the discussion about occupations. The beginning point was to translate the assumed labor force projections into the level of gross national product (GNP) that would be produced by the labor force at the assumed level of unemployment. Unemployed persons were subtracted from the labor force estimate and the result was multiplied by a projection of output per worker. The estimates of future output per worker were based on analysis of trends in productivity growth among industries and changes in the average weekly hours of

³A description of the CPS household survey and the establishment survey appears in the Explanatory Notes section of *Employment and Earnings*, published monthly by the Bureau of Labor Statistics.

work. Next, the projection of GNP was divided among its major components: Consumer expenditures, business investment, government expenditures—Federal, State, and local—and net exports. Each of these components was broken down by producing industry. Thus consumer expenditures, for example, were divided among industries producing goods and services such as housing, food, automobiles, medical care, and education.⁴

Once developed for these products and services, estimates were translated into detailed projections of industry output, not only for the industries producing the final product, but also for the intermediate industries which provide the raw materials, electric power, transportation, services, and other inputs required in the production process. To facilitate this translation, the Department of Commerce has developed input-output tables which indicate the amount of output of each industry—steel, glass, plastics, etc.—that is required to produce a final product, automobiles, for example.

Using estimates of future output per hour based on studies of productivity and technological trends for each industry, industry employment projections were derived from the output estimates.⁵

The projections then were compared with employment projections developed using regression analysis. This

analysis developed equations that relate employment by industry to combinations of economic variables, such as population and income, that are considered determinants of long-run changes in employment. By analyzing projections from input-output procedures and regression analysis, Bureau analysts identified areas where one method produced projections that were inconsistent with past trends or with the Bureau's economic model, and the projections were adjusted accordingly. The regression method also was used in developing projections in greater industry detail than comes from the input-output portion of the BLS Economic Growth model.

⁴For a complete discussion of the assumptions and methods used to project real gross national product, see *Methodology for Projections of Industry Employment to 1990*, BLS Bulletin 2036 (Bureau of Labor Statistics, 1980).

⁵In developing matrix industry estimates, data on wage and salary workers only were derived from this procedure. Separate estimates were obtained for the other classes of workers in each industry (self-employed persons, unpaid family workers, and government workers) from time series developed from the data sources described previously. Summing the wage and salary estimates with the other classes of workers yielded total employment estimates in each industry.

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agriculture, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	13.88	15.09	14.78	2.13	3.24	4.20	1.38	1.99	2.75
Engineers, technical	1.40	1.23	1.24	.06	.09	.12	.02	.02	.04
Aeronautical	.08	.06	.06	.00	.00	.00	.00	.00	.00
Chemical	.06	.06	.06	.00	.00	.00	.00	.00	.00
Civil	.21	.16	.17	.04	.06	.07	.01	.01	.02
Electrical	.36	.32	.32	.00	.00	.00	.00	.00	.00
Industrial	.20	.20	.20	.00	.00	.00	.00	.00	.00
Mechanical	.24	.21	.20	.01	.01	.02	.00	.00	.00
Metallurgical	.02	.02	.02	.00	.00	.00	.00	.00	.00
Petroleum	.02	.02	.02	.00	.00	.00	.00	.00	.00
Sales	.05	.04	.03	.00	.00	.00	.00	.00	.00
Other engineers	.17	.15	.16	.01	.02	.02	.01	.01	.02
Life and physical scientists	.26	.30	.31	.12	.21	.35	.09	.15	.28
Agricultural	.02	.02	.02	.09	.15	.25	.08	.13	.22
Atmospheric and space	.01	.01	.01	.00	.01	.00	.00	.00	.00
Biological	.04	.07	.07	.02	.05	.08	.01	.02	.05
Chemists	.14	.13	.13	.01	.01	.02	.00	.01	.02
Geologists	.03	.03	.04	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.03	.03	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.04	.05	.05	.00	.00	.00	.00	.00	.00
Actuaries	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mathematicians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Statisticians	.03	.02	.03	.00	.00	.00	.00	.00	.00
Engineering, science technicians	1.04	1.03	1.09	.16	.28	.41	.12	.21	.34
Agricultural, biologcl, exc health	.05	.05	.05	.09	.16	.28	.09	.17	.28
Chemical technicians	.10	.09	.10	.00	.00	.00	.00	.00	.00
Drafters	.34	.31	.35	.02	.03	.04	.01	.02	.02
Electrical and electronic	.20	.21	.22	.00	.01	.00	.00	.00	.00
Industrial engineering	.03	.03	.03	.00	.00	.00	.00	.00	.00
Mechanical engineering	.02	.02	.02	.00	.00	.00	.00	.00	.00
Surveyors	.08	.08	.08	.02	.03	.03	.01	.01	.01
Other engineering, science tech	.24	.24	.25	.02	.04	.05	.01	.02	.03
Medical workers, exc technicians	1.77	2.03	2.36	.55	.71	.89	.57	.74	.93
Chiropractors	.02	.02	.02	.00	.00	.00	.00	.00	.00
Dentists	.12	.13	.14	.00	.00	.00	.00	.00	.00
Dietitians	.04	.04	.04	.00	.00	.00	.00	.00	.00
Optometrists	.02	.02	.02	.00	.00	.00	.00	.00	.00
Pharmacists	.15	.14	.16	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.37	.40	.44	.00	.00	.00	.00	.00	.00
Podiatrists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Registered nurses	.91	1.06	1.28	.01	.00	.00	.01	.00	.00
Therapists	.10	.17	.20	.00	.00	.00	.00	.00	.00
Veterinarians	.03	.03	.04	.54	.70	.89	.56	.73	.93
Health technologists, technicians	.35	.54	.59	.01	.01	.02	.01	.01	.02
Clinical lab technologists, tech	.17	.23	.23	.00	.00	.00	.00	.00	.00
Dental hygienists	.02	.04	.06	.00	.00	.00	.00	.00	.00
Health record technologist, tech	.02	.02	.02	.00	.00	.00	.00	.00	.00
Radiologic technologists, tech	.07	.11	.12	.00	.00	.00	.00	.00	.00
Other health technicians	.08	.14	.15	.01	.01	.01	.01	.01	.01
Technicians, except health	.20	.23	.25	.09	.13	.19	.07	.10	.16
Airplane pilots	.06	.08	.09	.07	.10	.16	.07	.10	.16
Air traffic controllers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Flight engineers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Radio operators	.04	.05	.05	.01	.01	.01	.00	.00	.00
Other technicians except health	.05	.06	.07	.01	.02	.02	.00	.00	.00
Computer specialists	.36	.46	.50	.01	.01	.01	.00	.00	.00
Computer programmers	.22	.26	.28	.00	.01	.01	.00	.00	.00
Computer systems analysts	.11	.17	.19	.00	.00	.00	.00	.00	.00
Other computer specialists	.02	.03	.03	.00	.00	.00	.00	.00	.00
Social scientists	.15	.28	.32	.00	.01	.01	.00	.00	.00
Economists	.08	.13	.15	.00	.01	.01	.00	.00	.00
Psychologists	.04	.12	.13	.00	.00	.00	.00	.00	.00
Urban and regional planners	.01	.02	.02	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agriculture, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Teachers	4.11	3.91	3.13	.00	.00	.00	.00	.00	.00
Adult education	.07	.09	.08	.00	.00	.00	.00	.00	.00
College and university	.55	.62	.44	.00	.00	.00	.00	.00	.00
Elementary school	1.63	1.44	1.39	.00	.00	.00	.00	.00	.00
Preschool and kindergarten	.22	.25	.25	.00	.00	.00	.00	.00	.00
Secondary school	1.40	1.27	.77	.00	.00	.00	.00	.00	.00
Other teachers	.25	.25	.21	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	1.05	1.32	1.28	.35	.53	.65	.35	.54	.66
Actors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Athletes and kindred workers	.07	.11	.10	.28	.42	.45	.28	.43	.48
Authors	.03	.05	.04	.00	.00	.00	.00	.00	.00
Dancers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Designers	.15	.18	.16	.01	.01	.01	.01	.01	.01
Editors and reporters	.19	.20	.21	.00	.01	.01	.00	.00	.00
Musicians and composers	.13	.16	.18	.00	.00	.00	.00	.00	.00
Painters and sculptors	.13	.21	.18	.00	.00	.00	.00	.00	.00
Photographers	.09	.10	.09	.00	.00	.00	.00	.00	.00
Public relations specialists	.10	.14	.14	.01	.01	.01	.00	.00	.01
Radio and tv announcers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Other writers, artists, entertain	.09	.13	.11	.06	.09	.16	.06	.10	.17
Other professional and technical	3.15	3.73	3.67	.79	1.26	1.57	.14	.21	.31
Accountants	.94	1.07	1.11	.04	.09	.14	.03	.07	.11
Architects	.08	.08	.10	.08	.09	.08	.07	.09	.08
Archivists and curators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Clergy	.31	.28	.24	.00	.00	.00	.00	.00	.00
Religious workers, except clergy	.06	.06	.07	.00	.00	.00	.00	.00	.00
Farm management advisors	.01	.01	.01	.00	.01	.07	.00	.01	.07
Foresters and conservationists	.06	.06	.06	.64	1.01	1.23	.02	.01	.02
Judges	.02	.02	.02	.00	.00	.00	.00	.00	.00
Lawyers	.38	.52	.53	.00	.00	.00	.00	.00	.00
Librarians	.15	.16	.14	.00	.00	.00	.00	.00	.00
Operations and systems research	.10	.13	.12	.00	.00	.00	.00	.00	.00
Personnel, labor relations wkrs	.38	.45	.42	.02	.04	.03	.01	.02	.02
Other research workers	.15	.13	.12	.01	.01	.01	.00	.00	.00
Recreation workers	.08	.14	.14	.00	.01	.00	.00	.00	.00
Social workers	.31	.42	.42	.00	.00	.00	.00	.00	.00
Vocation, education counselors	.14	.19	.17	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	9.52	10.71	10.70	.60	.99	1.33	.47	.72	.93
Buyers, sales, loan managers	1.73	1.76	2.08	.04	.08	.10	.03	.06	.09
Bank, financial managers	.51	.58	.73	.00	.00	.00	.00	.00	.00
Credit managers	.09	.05	.05	.00	.00	.00	.00	.00	.00
Buyers, shippers, farm products	.03	.03	.02	.00	.00	.00	.00	.00	.00
Buyers, wholesale, retail trade	.20	.19	.18	.00	.00	.00	.00	.00	.00
Purchasing agents, buyers, other	.22	.20	.23	.02	.04	.06	.02	.03	.05
Sales manager, retail trade	.35	.37	.47	.00	.00	.00	.00	.00	.00
Sales manager, exc retail trade	.34	.35	.39	.02	.03	.04	.01	.03	.04
Administrators, public inspectors	.96	1.08	1.06	.00	.00	.00	.00	.00	.00
Assess, control, local pub admin	.04	.04	.04	.00	.00	.00	.00	.00	.00
Construction inspector, public	.03	.02	.03	.00	.00	.00	.00	.00	.00
Health administrators	.13	.20	.25	.00	.00	.00	.00	.00	.00
Inspectors, exc construct, public	.11	.10	.11	.00	.00	.00	.00	.00	.00
Officials, administrators, public	.33	.33	.30	.00	.00	.00	.00	.00	.00
Postmasters, mail supervisors	.05	.03	.04	.00	.00	.00	.00	.00	.00
School administrators, colleje	.05	.06	.05	.00	.00	.00	.00	.00	.00
School admin, elem, secondary	.22	.29	.25	.00	.00	.00	.00	.00	.00
Other managers, officials, proprts	6.83	7.88	7.57	.56	.91	1.23	.44	.65	.84
Funeral directors	.05	.04	.04	.00	.00	.00	.00	.00	.00
Mgrs, superintendents, building	.13	.17	.19	.00	.00	.00	.00	.00	.00
Office managers, other	.37	.40	.46	.04	.07	.08	.04	.06	.07
Officers, pilots, pursers, ship	.04	.04	.03	.05	.09	.17	.00	.00	.00
Officials of lodges, unions	.08	.09	.07	.00	.00	.00	.00	.00	.00
Railroad conductors	.05	.04	.03	.00	.00	.00	.00	.00	.00
Restaurant, cafe, bar, managers	.59	.65	.59	.01	.00	.00	.01	.00	.00
Other managers, administrators	5.53	6.46	6.16	.46	.75	.99	.40	.59	.77

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agricultre, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	6.38	6.31	6.67	.17	.38	.58	.16	.38	.59
Advertising agents,sales worker	.08	.10	.12	.00	.00	.00	.00	.00	.00
Demonstrators	.07	.06	.06	.00	.00	.00	.00	.00	.00
Hucksters and peddlers	.27	.22	.18	.00	.00	.00	.00	.00	.00
Insurance agents and brokers	.52	.60	.60	.00	.00	.00	.00	.00	.00
Newspaper carriers and vendors	.09	.08	.08	.00	.00	.00	.00	.00	.00
Real estate agents, brokers	.40	.59	.59	.00	.00	.00	.00	.00	.00
Stock and bond sales agents	.13	.12	.11	.00	.00	.00	.00	.00	.00
Other sales workers	4.80	4.53	4.93	.17	.38	.57	.16	.38	.59
Clerical workers	17.47	17.91	19.05	1.00	1.66	1.77	.88	1.48	1.56
Stenographrs,typists,secretaries	4.94	5.01	5.79	.33	.63	.70	.27	.54	.57
Legal secretaries	.13	.17	.20	.00	.00	.00	.00	.00	.00
Medical secretaries	.10	.09	.16	.00	.00	.00	.00	.00	.00
Other secretaries	3.31	3.54	4.28	.26	.52	.59	.23	.49	.53
Stenographers	.16	.10	.06	.01	.01	.01	.01	.01	.00
Typists	1.24	1.11	1.09	.06	.10	.10	.03	.04	.04
Office machine operators	.80	.88	.76	.02	.03	.02	.02	.02	.01
Bookkeeping and billing	.09	.05	.06	.00	.00	.00	.00	.00	.00
Calculating	.04	.03	.03	.00	.00	.00	.00	.00	.00
Computer and peripheral equip	.19	.42	.41	.00	.01	.01	.00	.01	.01
Duplicating	.02	.02	.02	.00	.00	.00	.00	.00	.00
Keypunch	.38	.29	.18	.01	.01	.01	.01	.01	.00
Tabulating	.01	.00	.00	.00	.00	.00	.00	.00	.00
Other office machine operators	.07	.07	.06	.00	.00	.00	.00	.00	.00
Other clerical workers	11.72	12.03	12.49	.64	.99	1.04	.59	.93	.97
Bank tellers	.37	.48	.45	.00	.00	.00	.00	.00	.00
Billing clerks	.16	.17	.23	.00	.01	.01	.00	.01	.01
Bookkeepers	1.96	1.94	1.79	.32	.51	.55	.31	.50	.52
Cashiers	1.23	1.49	1.84	.01	.02	.02	.01	.02	.02
Clerical assistant,soc welfare	.00	.04	.04	.00	.00	.00	.00	.00	.00
Clerical supervisors, other	.24	.27	.28	.01	.01	.01	.01	.01	.00
Collectors, bill and account	.08	.08	.08	.00	.00	.00	.00	.00	.00
Counter clerks,exc food	.39	.40	.43	.00	.02	.02	.00	.02	.02
Dispatchers,starters,vehicle	.08	.09	.09	.00	.00	.00	.00	.00	.00
Enumerators and interviewers	.08	.07	.06	.00	.00	.00	.00	.00	.00
Estimators,investigators,other	.42	.50	.48	.01	.02	.02	.01	.01	.02
Expeditors,production controlrs	.25	.24	.26	.00	.00	.00	.00	.00	.00
File clerks	.34	.29	.29	.01	.02	.02	.01	.01	.02
Insurance adjusters,examiners	.13	.18	.21	.00	.00	.00	.00	.00	.00
Library attendants, assistants	.15	.18	.17	.00	.00	.00	.00	.00	.00
Mail carriers, post office	.34	.26	.23	.00	.00	.00	.00	.00	.00
Mail handlers,exc post office	.17	.16	.16	.01	.01	.00	.01	.01	.00
Messengers and office helpers	.07	.07	.06	.00	.00	.00	.00	.00	.00
Meter readers,utilities	.05	.04	.04	.00	.00	.00	.00	.00	.00
Payroll,timekeeping clerks	.22	.24	.22	.01	.04	.05	.01	.04	.04
Postal clerks	.40	.28	.18	.00	.00	.00	.00	.00	.00
Proofreaders	.03	.03	.04	.00	.00	.00	.00	.00	.00
Real estate appraisers	.03	.04	.04	.00	.00	.00	.00	.00	.00
Receptionists	.54	.62	.66	.14	.16	.18	.14	.16	.18
Shipping and receiving clerks	.56	.49	.50	.01	.02	.01	.01	.02	.01
Statistical clerks	.37	.40	.42	.02	.03	.02	.01	.02	.02
Stock clerks and store keepers	.63	.54	.53	.01	.02	.02	.01	.02	.02
Teachers aides, exc monitors	.24	.36	.46	.00	.00	.00	.00	.00	.00
Telegraph operators	.02	.01	.01	.00	.00	.00	.00	.00	.00
Telephone operators	.49	.33	.25	.00	.00	.00	.00	.00	.00
Ticket,station, express agents	.12	.11	.10	.00	.00	.00	.00	.00	.00
Weighers	.06	.05	.05	.01	.03	.03	.01	.02	.02
Misc clerical workers	1.48	1.58	1.86	.05	.08	.08	.04	.07	.06
Crafts and kindred workers	13.28	13.13	13.04	.86	1.65	1.89	.75	1.53	1.75

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agriculture, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	3.94	3.98	3.93	.37	.62	.76	.33	.57	.73
Carpenters and apprentices	1.26	1.33	1.22	.14	.24	.27	.13	.22	.23
Brick,stonemasons, apprentices	.22	.22	.19	.01	.02	.02	.01	.02	.02
Bulldozer operators	.13	.13	.17	.10	.14	.21	.10	.13	.22
Cement and concrete finishers	.08	.09	.10	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.60	.63	.65	.01	.04	.05	.01	.04	.05
Excavating,grading mach operatr	.36	.32	.36	.06	.08	.09	.05	.07	.08
Floor layers, exc tile setters	.03	.02	.02	.00	.00	.00	.00	.00	.00
Painters and apprentices	.51	.51	.48	.03	.04	.05	.02	.04	.05
Paperhangers	.01	.02	.02	.00	.00	.00	.00	.00	.00
Plasterers and apprentices	.04	.03	.03	.00	.00	.00	.00	.00	.00
Plumbers,pipefitters,aprentices	.47	.45	.45	.01	.05	.07	.01	.05	.08
Roofers and slaters	.08	.12	.12	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.10	.08	.09	.00	.00	.00	.00	.00	.00
Tile setters	.04	.04	.04	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	1.75	1.77	1.69	.22	.43	.37	.20	.41	.33
Metalworkg craft wrkrs,exc meca	1.45	1.27	1.28	.01	.01	.01	.01	.01	.00
Blacksmiths	.01	.01	.01	.00	.00	.00	.00	.00	.00
Boilermakers	.04	.04	.05	.00	.00	.00	.00	.00	.00
Heat treaters, annealers	.03	.02	.02	.00	.00	.00	.00	.00	.00
Forge and hammer operators	.02	.02	.02	.00	.00	.00	.00	.00	.00
Job and die setters, metal	.13	.10	.11	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.55	.51	.51	.01	.01	.01	.00	.00	.00
Millwrights	.10	.10	.10	.00	.00	.00	.00	.00	.00
Molders, metal and apprentices	.07	.06	.05	.00	.00	.00	.00	.00	.00
Pattern and moldmakers	.05	.04	.04	.00	.00	.00	.00	.00	.00
Rollers and finishers,metal	.03	.02	.02	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.19	.16	.17	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.23	.18	.18	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	3.37	3.53	3.79	.18	.37	.56	.16	.35	.53
Air cond, heating, refrig mech	.17	.22	.22	.00	.00	.00	.00	.00	.00
Aircraft mechanics	.15	.14	.13	.01	.01	.01	.01	.01	.01
Auto body repairers	.20	.20	.21	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	1.07	1.09	1.11	.05	.06	.06	.04	.05	.06
Data processing mach repairers	.05	.07	.11	.00	.00	.00	.00	.00	.00
Farm implement mechanics	.06	.07	.07	.03	.06	.08	.03	.06	.08
Heavy equip mech, incl diesel	.87	1.01	1.23	.08	.23	.39	.08	.21	.37
Household appliance mechanics	.15	.15	.16	.00	.00	.00	.00	.00	.00
Loom fixers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Office machine repairers	.08	.07	.09	.00	.00	.00	.00	.00	.00
Radio, television repairers	.17	.14	.15	.00	.00	.00	.00	.00	.00
Railroad, car shop repairers	.07	.05	.04	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.29	.31	.28	.01	.02	.02	.01	.01	.02
Printing trade crafts workers	.50	.45	.38	.00	.00	.00	.00	.00	.00
Bookbinders	.04	.03	.03	.00	.00	.00	.00	.00	.00
Compositors and typesetters	.22	.19	.14	.00	.00	.00	.00	.00	.00
Engravers exc photoengravers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Photoengravers, lithographers	.04	.04	.05	.00	.00	.00	.00	.00	.00
Press,plate printers,aprentices	.18	.18	.16	.00	.00	.00	.00	.00	.00
Transport,public util craft wrks	.64	.59	.50	.00	.01	.00	.00	.00	.00
Elec pwr line instaler,repairer	.13	.13	.11	.00	.00	.00	.00	.00	.00
Locomotive engineers	.05	.05	.05	.00	.00	.00	.00	.00	.00
Locomotive engineers' helpers	.02	.01	.00	.00	.00	.00	.00	.00	.00
Power station operators	.02	.02	.02	.00	.00	.00	.00	.00	.00
Telephone installers,repairers	.36	.32	.27	.00	.00	.00	.00	.00	.00
Telephone line instalr,splicers	.07	.06	.05	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agriculture, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.64	1.53	1.47	.07	.22	.18	.05	.19	.16
Bakers	.16	.14	.11	.00	.00	.00	.00	.00	.00
Cabinetmakers	.10	.09	.08	.00	.00	.00	.00	.00	.00
Carpet installers	.06	.07	.08	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.22	.17	.19	.01	.04	.08	.01	.03	.06
Decorators, window dressers	.09	.13	.15	.02	.10	.02	.02	.11	.02
Dental laboratory technicians	.04	.05	.06	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.03	.03	.02	.00	.00	.00	.00	.00	.00
Glaziers	.03	.04	.04	.00	.00	.00	.00	.00	.00
Inspectors, log and lumber	.02	.02	.02	.01	.01	.01	.00	.00	.00
Inspectors, other	.16	.16	.14	.01	.02	.02	.01	.01	.01
Jewelers and watchmakers	.05	.05	.06	.00	.00	.00	.00	.00	.00
Millers, grain, flour, feed	.01	.01	.01	.00	.00	.00	.00	.00	.00
Motion picture projectionists	.02	.01	.01	.00	.00	.00	.00	.00	.00
Opticians,lens grinder,polisher	.03	.05	.05	.00	.00	.00	.00	.00	.00
Shipfitters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Shoe repairers	.04	.02	.02	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.03	.03	.02	.00	.00	.00	.00	.00	.00
Stationary engineers	.23	.19	.16	.01	.02	.02	.00	.01	.02
Tailors	.09	.07	.06	.00	.00	.00	.00	.00	.00
Upholsterers	.09	.06	.06	.00	.00	.00	.00	.00	.00
Other crafts workers	.12	.11	.09	.02	.03	.03	.01	.02	.03
Operatives	16.88	15.28	14.58	.91	1.71	2.12	.82	1.59	1.93
Operatives,except transport	13.05	11.52	10.97	.45	.95	1.17	.38	.84	1.02
Semiskilled metalworking	1.69	1.48	1.47	.02	.09	.11	.02	.09	.11
Drill press operatives	.10	.07	.05	.00	.00	.00	.00	.00	.00
Furnace tendrs,smeltrs,pourers	.10	.08	.08	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.18	.14	.11	.00	.00	.00	.00	.00	.00
Heaters, metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.20	.13	.12	.00	.00	.00	.00	.00	.00
Metal platers	.05	.04	.04	.00	.00	.00	.00	.00	.00
Other precision mach operators	.10	.07	.08	.00	.00	.00	.00	.00	.00
Punch,stamping press operatives	.23	.18	.17	.00	.00	.00	.00	.00	.00
Solderers	.05	.04	.02	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.68	.72	.80	.02	.09	.11	.02	.08	.10
Semiskilled textile operatives	.56	.41	.31	.00	.00	.00	.00	.00	.00
Carding,lapping combing oprs	.02	.01	.01	.00	.00	.00	.00	.00	.00
Knitters,loopers, and toppers	.04	.03	.02	.00	.00	.00	.00	.00	.00
Spinners, twisters, winders	.19	.14	.12	.00	.00	.00	.00	.00	.00
Weavers	.06	.04	.03	.00	.00	.00	.00	.00	.00
Other textile operatives	.24	.18	.14	.00	.00	.00	.00	.00	.00
Semiskilled packing, inspecting	1.85	1.64	1.66	.14	.34	.41	.14	.33	.39
Checkers, examiners, mfg	.88	.78	.80	.00	.00	.00	.00	.00	.00
Graders and sorters, mfg	.06	.05	.05	.00	.00	.00	.00	.00	.00
Meat wrappers, retail trade	.06	.06	.06	.00	.00	.00	.00	.00	.00
Packer,wrapper,exc meat,prodce	.83	.72	.73	.11	.29	.35	.10	.29	.33
Produce grdr, pkrs,exc fact,farm	.03	.03	.03	.03	.05	.06	.03	.05	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agricultre, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	8.95	8.00	7.53	.29	.52	.65	.23	.43	.52
Asbestos,insulation workers	.03	.05	.06	.00	.00	.00	.00	.00	.00
Assemblers	1.20	1.23	1.46	.00	.00	.01	.00	.00	.01
Bottling,canning operatives	.08	.06	.06	.00	.00	.00	.00	.00	.00
Surveyors' helpers	.01	.02	.01	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.25	.14	.11	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.30	.28	.28	.01	.01	.01	.01	.01	.01
Dressmakers, exc factory	.14	.15	.10	.00	.00	.00	.00	.00	.00
Drillers, earth	.07	.08	.07	.00	.02	.05	.00	.02	.05
Dry wall installers, lathers	.06	.11	.11	.00	.00	.00	.00	.00	.00
Dyers	.04	.03	.03	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.16	.13	.11	.00	.00	.00	.00	.00	.00
Garage wrkr,gas station atten	.64	.44	.32	.00	.00	.00	.00	.00	.00
Laundry,dry cleang oprs,other	.24	.18	.22	.00	.00	.00	.00	.00	.00
Meat cutters,butchers,exc mfy	.26	.22	.16	.01	.01	.00	.01	.01	.00
Meat cutters and butchers	.11	.09	.09	.00	.00	.00	.00	.00	.00
Mine operatives,other	.21	.22	.22	.00	.00	.00	.00	.00	.00
Mixing operatives	.10	.09	.08	.01	.01	.01	.01	.01	.01
Oilers,greasers,exc automobiles	.07	.06	.04	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.23	.19	.19	.00	.00	.00	.00	.00	.00
Photographic process workers	.09	.10	.10	.00	.00	.00	.00	.00	.00
Riveters and fasteners	.04	.03	.03	.00	.00	.00	.00	.00	.00
Sailors and deckhands	.05	.03	.02	.00	.00	.00	.00	.00	.00
Sawyers	.15	.14	.14	.02	.05	.08	.01	.04	.07
Sewers and stitchers	1.18	.87	.93	.00	.00	.00	.00	.00	.00
Shoemaking machine operatives	.09	.05	.03	.00	.00	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	.12	.08	.06	.01	.01	.03	.00	.01	.01
Winding operatives, other	.09	.08	.09	.00	.00	.00	.00	.00	.00
Miscellaneous machine operatives	1.66	1.56	1.34	.11	.20	.23	.11	.20	.23
Other operatives,exc transport	1.28	1.27	1.07	.12	.20	.24	.08	.13	.13
Transport equipment operatives	3.83	3.75	3.61	.46	.76	.94	.43	.75	.91
Boat operators	.01	.01	.01	.01	.01	.02	.00	.00	.00
Bus drivers	.29	.36	.30	.00	.00	.00	.00	.00	.00
Conductors,operators,urban rail	.01	.01	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.73	.61	.57	.06	.19	.21	.06	.19	.21
Fork lift,tow motor operatives	.36	.39	.40	.02	.03	.03	.02	.03	.03
Rail vehicle operators, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Parking attendants	.04	.05	.04	.00	.00	.00	.00	.00	.00
Railroad brake operators	.06	.05	.05	.00	.00	.00	.00	.00	.00
Railroad switch operators	.07	.05	.04	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.19	.19	.14	.00	.00	.00	.00	.00	.00
Truck drivers	2.07	2.04	2.05	.37	.53	.68	.35	.52	.66
Service workers	13.31	13.60	14.63	.25	.32	.33	.22	.28	.28
Cleaning service workers	2.53	2.58	2.66	.14	.17	.14	.13	.16	.13
Lodging gtrs cleaners,exc privt	.27	.20	.26	.01	.01	.01	.01	.01	.01
Bldg interior cleaners, other	.78	.91	1.07	.05	.06	.05	.04	.06	.05
Janitors and sextons	1.48	1.47	1.34	.09	.10	.08	.07	.08	.07
Food service workers	3.92	4.50	4.96	.05	.08	.07	.04	.06	.06
Bartenders	.24	.30	.32	.00	.00	.00	.00	.00	.00
Waiters' assistants	.14	.23	.31	.00	.00	.00	.00	.00	.00
Cooks,exc private households	1.05	1.26	1.37	.04	.06	.06	.03	.05	.04
Dishwashers	.26	.25	.35	.00	.00	.00	.00	.00	.00
Food counter,fountain workers	.36	.49	.57	.00	.00	.00	.00	.00	.00
Waiters	1.39	1.47	1.43	.01	.01	.02	.01	.01	.01
Other food serv wkrs,exc privt	.50	.51	.61	.00	.00	.00	.00	.00	.00
Health service workers	1.85	2.09	2.76	.01	.02	.01	.01	.02	.01
Dental assistants	.13	.16	.20	.00	.00	.00	.00	.00	.00
Health aides, except nursiny	.17	.26	.44	.01	.01	.01	.01	.01	.01
Health trainees	.02	.01	.01	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	1.06	1.10	1.38	.01	.00	.00	.01	.00	.00
Practical nurses	.46	.55	.74	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Total all industries			Agriculture, forestry, fisheries			Agriculture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	1.80	1.76	1.87	.01	.02	.02	.01	.02	.02
Flight attendants	.04	.05	.07	.00	.00	.00	.00	.00	.00
Attendants, recreation, amusement	.10	.12	.15	.00	.00	.00	.00	.00	.00
Attendants, personal serv, other	.08	.08	.09	.00	.00	.00	.00	.00	.00
Baggage porters and bellhops	.03	.03	.03	.00	.00	.00	.00	.00	.00
Barbers	.20	.13	.12	.00	.00	.00	.00	.00	.00
Boarding, lodging housekeepers	.04	.04	.05	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.43	.41	.48	.00	.00	.00	.00	.00	.00
Elevator operators	.05	.04	.02	.00	.00	.00	.00	.00	.00
Hairdressers and cosmetologists	.61	.57	.55	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.14	.14	.16	.01	.02	.02	.01	.02	.02
School monitors	.03	.04	.04	.00	.00	.00	.00	.00	.00
Ushers, recreation and amusement	.02	.02	.01	.00	.00	.00	.00	.00	.00
Welfare service aides	.02	.10	.10	.00	.00	.00	.00	.00	.00
Protective service workers	1.33	1.44	1.59	.04	.04	.09	.03	.03	.06
Crossing guards, bridgetenders	.06	.05	.05	.00	.00	.00	.00	.00	.00
Firefighters	.23	.23	.24	.01	.01	.02	.00	.00	.00
Guards	.49	.58	.72	.03	.03	.08	.03	.03	.06
Police and detectives	.49	.50	.51	.00	.00	.00	.00	.00	.00
Sheriffs and bailiffs	.05	.06	.07	.00	.00	.00	.00	.00	.00
Private household workers	1.88	1.23	.78	.00	.00	.00	.00	.00	.00
Child care workers	.71	.52	.29	.00	.00	.00	.00	.00	.00
Cooks	.05	.02	.02	.00	.00	.00	.00	.00	.00
Housekeepers	.15	.13	.06	.00	.00	.00	.00	.00	.00
Launderers	.02	.01	.00	.00	.00	.00	.00	.00	.00
Cleaners and servants	.96	.56	.41	.00	.00	.00	.00	.00	.00
Laborers, except farm	5.31	5.01	4.48	6.22	9.76	11.11	4.99	8.13	10.04
Animal caretakers, exc farm	.09	.13	.14	1.10	1.77	2.90	1.10	1.78	2.92
Carpenter helpers	.15	.11	.09	.01	.01	.01	.00	.00	.00
Constr labr, exc carpenter helper	1.02	.91	.85	.04	.05	.03	.03	.04	.03
Fishers, hunters, trappers	.04	.05	.03	.92	1.42	.95	.00	.00	.00
Freight and material handlers	.95	.87	.77	.05	.07	.08	.04	.06	.07
Garbage collectors	.11	.11	.15	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.68	.72	.64	3.69	5.96	6.69	3.75	6.15	6.92
Longshore workers, stevedores	.07	.06	.05	.00	.00	.00	.00	.00	.00
Timbercutting, logging workers	.10	.09	.06	.01	.01	.01	.01	.01	.01
Stock handlers	.91	.97	.91	.01	.01	.01	.01	.01	.01
Vehicle washers, equip cleaners	.22	.22	.18	.01	.01	.02	.01	.01	.01
Warehouse laborers, other	.19	.17	.13	.01	.01	.01	.00	.00	.00
Other laborers	.75	.60	.50	.38	.44	.39	.05	.06	.07
Farmers and farm workers	3.98	2.97	2.06	87.87	80.29	76.68	90.35	83.90	80.18
Farmers and farm managers	2.19	1.57	1.13	48.24	42.47	41.90	49.61	44.38	43.81
Farmers (owners and tenants)	2.14	1.53	1.08	47.32	41.47	40.00	48.65	43.33	41.82
Farm managers	.04	.04	.05	.93	1.00	1.91	.95	1.05	1.99
Farm laborers, farm supervisors	1.80	1.40	.94	39.62	37.82	34.78	40.74	39.52	36.37
Farm labor supervisors	.04	.04	.03	.87	1.12	1.18	.90	1.17	1.23
Farm laborers, wage workers	1.14	1.03	.70	25.19	27.87	25.91	25.90	29.12	27.09
Farm laborers, unpaid family	.60	.32	.19	13.31	8.58	7.02	13.69	8.96	7.34
Farm laborers, self-employed	.01	.01	.02	.25	.26	.68	.26	.27	.71

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Agricultural production			Services, except horticulture			Horticultural services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.22	.52	1.09	21.20	18.79	16.13	2.94	2.48	2.24
Engineers, technical	.01	.02	.04	.04	.02	.02	.04	.03	.03
Civil	.01	.01	.02	.01	.00	.00	.02	.01	.01
Sales	.00	.00	.00	.01	.00	.00	.01	.01	.00
Other engineers	.00	.01	.02	.02	.01	.02	.02	.01	.02
Life and physical scientists	.04	.09	.18	.70	.55	.79	.54	.56	.59
Agricultural	.03	.07	.13	.49	.40	.61	.53	.54	.58
Biological	.00	.01	.04	.18	.13	.16	.01	.02	.01
Chemists	.00	.01	.02	.02	.02	.03	.00	.00	.00
Mathematical specialists	.00	.00	.00	.02	.01	.01	.00	.00	.00
Statisticians	.00	.00	.00	.02	.01	.01	.00	.00	.00
Engineering, science technicians	.03	.08	.14	1.46	1.66	1.97	.40	.35	.32
Agricultural, biologicl, exc health	.03	.06	.11	1.37	1.57	1.84	.02	.02	.01
Drafters	.00	.00	.00	.01	.01	.01	.28	.23	.25
Surveyors	.00	.00	.00	.01	.01	.00	.10	.09	.05
Other engineering, science tech	.01	.01	.02	.06	.07	.10	.01	.01	.01
Medical workers, exc technicians	.01	.02	.02	11.38	9.89	8.84	.00	.00	.00
Dietitians	.00	.00	.00	.02	.01	.01	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.01	.01	.01	.00	.00	.00
Registered nurses	.00	.00	.00	.12	.05	.04	.00	.00	.00
Veterinarians	.01	.02	.02	11.22	9.80	8.79	.00	.00	.00
Other medical and health tech	.00	.00	.00	.00	.01	.00	.00	.00	.00
Health technologists, technicians	.00	.00	.00	.15	.19	.15	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.04	.04	.02	.00	.00	.00
Other health technicians	.00	.00	.00	.10	.15	.13	.00	.00	.00
Technicians, except health	.00	.00	.00	1.41	1.33	1.57	.01	.01	.00
Airplane pilots	.00	.00	.00	1.38	1.32	1.56	.00	.00	.00
Radio operators	.00	.00	.00	.01	.00	.00	.00	.00	.00
Other technicians except health	.00	.00	.00	.01	.01	.01	.01	.01	.00
Computer specialists	.00	.00	.00	.03	.03	.03	.01	.01	.01
Computer programers	.00	.00	.00	.02	.02	.02	.01	.01	.01
Social scientists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Economists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Writers, artists, entertainers	.08	.21	.49	5.51	4.85	2.47	.16	.14	.12
Athletes and kindred workers	.07	.17	.38	4.54	3.92	1.58	.00	.00	.00
Designers	.00	.00	.00	.00	.00	.00	.15	.13	.11
Public relations specialists	.00	.00	.00	.06	.04	.04	.01	.01	.01
Other writers, artists, entertain	.02	.04	.10	.92	.90	.86	.00	.00	.00
Other professional and technical	.04	.10	.22	.50	.25	.29	1.79	1.38	1.17
Accountants	.02	.06	.11	.15	.12	.12	.09	.11	.15
Architects	.00	.00	.00	.00	.00	.00	1.63	1.22	.99
Farm management advisors	.00	.01	.08	.04	.02	.05	.00	.00	.00
Foresters and conservationists	.01	.01	.01	.22	.06	.05	.01	.01	.00
Home management advisors	.00	.00	.00	.02	.01	.01	.00	.00	.00
Personnel, labor relations wkrs	.01	.02	.02	.05	.03	.03	.06	.04	.03
Other research workers	.00	.00	.00	.03	.01	.03	.00	.00	.00
Managers, officials, proprietors	.04	.09	.20	5.74	4.89	4.63	3.39	3.83	3.44
Buyers, sales, loan managers	.01	.03	.04	.30	.29	.29	.19	.21	.24
Bank, financial managers	.00	.00	.00	.03	.02	.03	.00	.00	.00
Purchasing agents, buyers, other	.01	.02	.03	.17	.15	.17	.06	.07	.12
Sales manager, exc retail trade	.01	.01	.02	.10	.11	.10	.12	.13	.12
Other managers, officials, proprts	.03	.06	.15	5.44	4.60	4.34	3.21	3.62	3.20
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.02	.02	.02
Office managers, other	.01	.03	.04	.31	.27	.23	.20	.19	.20
Other managers, administrators	.01	.03	.11	5.12	4.32	4.10	2.99	3.41	2.98

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Agricultural production			Services, except horticulture			Horticultural services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	.08	.31	.55	.68	.45	.35	1.19	1.11	1.36
Auctioneers	.00	.00	.00	.09	.06	.06	.00	.00	.00
Other sales workers	.08	.31	.55	.59	.39	.29	1.19	1.11	1.36
Clerical workers	.33	.82	.78	8.84	7.92	6.37	3.18	2.83	3.17
Stenographers, typists, secretaries	.10	.32	.30	2.32	2.29	2.13	1.46	1.27	1.28
Medical secretaries	.00	.00	.00	.04	.01	.00	.00	.00	.00
Other secretaries	.08	.29	.28	1.96	2.06	1.99	1.34	1.17	1.19
Stenographers	.00	.01	.00	.05	.01	.00	.02	.02	.01
Typists	.01	.03	.02	.27	.20	.14	.10	.09	.08
Office machine operators	.01	.01	.00	.19	.16	.11	.02	.02	.02
Bookkeeping and billing	.00	.00	.00	.02	.01	.00	.00	.00	.00
Calculating	.00	.00	.00	.03	.01	.00	.00	.00	.00
Computer and peripheral equip	.00	.00	.00	.03	.06	.07	.00	.01	.01
Keypunch	.00	.00	.00	.08	.05	.01	.01	.01	.01
Other office machine operators	.00	.00	.00	.03	.02	.02	.00	.00	.00
Other clerical workers	.22	.48	.48	6.33	5.48	4.13	1.69	1.54	1.86
Billing clerks	.00	.00	.00	.03	.03	.03	.02	.03	.02
Bookkeepers	.16	.32	.30	2.49	2.19	1.64	1.02	.89	1.26
Cashiers	.01	.02	.02	.05	.04	.03	.07	.05	.02
Clerical supervisors, other	.00	.00	.00	.05	.04	.02	.01	.01	.01
Counter clerks, exc food	.00	.02	.03	.01	.01	.01	.02	.01	.01
Dispatchers, starters, vehicle	.00	.00	.00	.01	.01	.01	.00	.00	.00
Estimators, investigators, other	.00	.00	.00	.06	.09	.08	.07	.10	.11
Expeditors, production controls	.00	.00	.00	.02	.02	.02	.01	.01	.01
File clerks	.00	.01	.01	.08	.08	.09	.03	.02	.01
Mail handlers, exc post office	.00	.00	.00	.03	.02	.01	.03	.03	.02
Messengers and office helpers	.00	.00	.00	.04	.03	.01	.01	.02	.01
Payroll, timekeeping clerks	.01	.04	.05	.03	.02	.01	.05	.05	.01
Receptionists	.00	.00	.00	2.61	2.11	1.68	.08	.07	.09
Shipping and receiving clerks	.01	.02	.01	.09	.05	.01	.03	.02	.01
Statistical clerks	.01	.01	.01	.13	.14	.09	.03	.03	.01
Stock clerks and store keepers	.01	.02	.02	.03	.02	.01	.05	.03	.01
Telephone operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Weighers	.00	.01	.01	.11	.12	.09	.00	.00	.00
Misc clerical workers	.01	.02	.01	.47	.48	.29	.19	.19	.25
Crafts and kindred workers	.45	1.21	1.43	2.21	1.89	1.94	5.19	4.91	4.68
Construction crafts workers	.22	.45	.55	.78	.61	.60	1.87	1.90	2.61
Carpenters and apprentices	.13	.24	.26	.20	.17	.14	.11	.08	.04
Brick, stonemasons, apprentices	.01	.02	.02	.00	.00	.00	.03	.02	.01
Bulldozer operators	.04	.04	.04	.31	.26	.31	1.04	1.12	1.82
Cement and concrete finishers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Electricians and apprentices	.01	.04	.06	.03	.02	.02	.01	.01	.01
Excavating, grading mach operatr	.02	.03	.04	.12	.09	.09	.46	.46	.54
Painters and apprentices	.02	.04	.05	.07	.04	.02	.05	.05	.04
Plumbers, pipefitters, apprentices	.01	.04	.07	.01	.01	.01	.17	.15	.16
Tile setters	.00	.00	.00	.03	.02	.02	.00	.00	.00
Blue collar worker supervisors	.06	.25	.24	.53	.41	.38	2.66	2.28	1.19
Metalworkg craft wrkrs, exc mech	.01	.01	.00	.03	.02	.02	.00	.00	.00
Blacksmiths	.00	.00	.00	.02	.01	.01	.00	.00	.00
Sheetmetal workers, apprentices	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mechanics, repairers, installers	.11	.29	.47	.75	.77	.87	.51	.59	.76
Air cond, heating, refrig meca	.00	.00	.00	.02	.02	.02	.00	.00	.00
Aircraft mechanics	.00	.00	.00	.12	.07	.06	.00	.00	.00
Auto mechanics and apprentices	.03	.03	.03	.15	.13	.14	.16	.16	.19
Farm implement mechanics	.02	.06	.09	.11	.12	.10	.00	.00	.00
Heavy equip mech, incl diesel	.05	.19	.35	.30	.38	.50	.24	.31	.44
Other mechanics and apprentices	.00	.00	.00	.06	.05	.05	.10	.11	.12
Transport, public util craft wrks	.00	.00	.00	.00	.00	.00	.04	.04	.04
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.03	.03	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Agricultural production			Services, except horticulture			Horticultural services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.05	.21	.18	.13	.08	.07	.11	.10	.08
Crane,derrick,hoist operator	.01	.04	.07	.01	.01	.01	.05	.03	.02
Decorators, window dressers	.02	.12	.02	.02	.01	.01	.04	.05	.04
Inspectors, other	.01	.01	.01	.07	.04	.04	.00	.00	.00
Stationary engineers	.00	.02	.03	.03	.02	.01	.00	.00	.00
Other crafts workers	.01	.02	.04	.00	.00	.00	.02	.02	.02
Operatives	.46	1.21	1.49	5.94	5.53	4.93	2.38	2.06	2.41
Operatives,except transport	.19	.61	.78	3.49	3.54	2.94	.87	.86	.91
Semiskilled metalworking	.02	.09	.12	.01	.01	.01	.08	.07	.07
Grinding machine operatives	.00	.00	.00	.01	.01	.01	.00	.00	.00
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.02	.02	.02
Solderers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	.02	.09	.12	.00	.00	.00	.05	.04	.04
Semiskilled packing, inspecting	.09	.31	.38	1.16	.98	.80	.00	.00	.00
Packer,wrapper,exc meat,prodce	.09	.31	.38	.52	.34	.20	.00	.00	.00
Produce grdr,pkrs,exc fact,farm	.00	.00	.00	.64	.64	.60	.00	.00	.00
Other operatives, exc transport	.09	.21	.28	2.32	2.55	2.13	.79	.79	.85
Assemblers	.00	.00	.00	.03	.03	.03	.02	.02	.02
Cutting operatives, other	.00	.00	.00	.03	.03	.02	.14	.15	.12
Drillers, earth	.00	.03	.06	.00	.00	.00	.00	.00	.00
Meat cutters,butchers,exc mfg	.00	.00	.00	.06	.03	.01	.00	.00	.00
Mixing operatives	.00	.00	.00	.10	.11	.10	.00	.00	.00
Oilers,greasers,exc automobiles	.00	.00	.00	.01	.01	.01	.00	.00	.00
Painters, mfg articles	.00	.00	.00	.02	.01	.01	.00	.00	.00
Sawyers	.00	.03	.06	.04	.03	.03	.24	.22	.23
Furnace tendr,stokr,exc metal	.00	.01	.01	.00	.00	.00	.00	.00	.00
Miscellaneous machine operatives	.03	.07	.08	1.51	1.73	1.39	.19	.19	.19
Other operatives,exc transport	.04	.08	.07	.53	.58	.53	.20	.21	.29
Transport equipment operatives	.27	.60	.71	2.45	2.00	1.98	1.51	1.20	1.50
Delivery and route workers	.06	.21	.25	.26	.17	.08	.00	.00	.00
Fork lift,tow motor operatives	.01	.02	.02	.12	.15	.12	.04	.04	.04
Railroad switch operators	.00	.00	.00	.03	.02	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.00	.00	.00	.04	.03	.03	.00	.00	.00
Truck drivers	.20	.37	.44	2.00	1.64	1.76	1.47	1.16	1.46
Service workers	.15	.21	.21	1.40	1.14	.83	.31	.31	.28
Cleaning service workers	.08	.10	.06	.83	.74	.55	.29	.29	.25
Lodging qtrs cleaners,exc privt	.01	.01	.01	.00	.00	.00	.00	.00	.00
Bldg interior cleaners, other	.03	.05	.04	.21	.22	.15	.06	.06	.05
Janitors and sextons	.04	.03	.02	.62	.53	.39	.23	.23	.21
Food service wrkers	.04	.07	.06	.14	.08	.05	.00	.00	.00
Cooks,exc private households	.03	.06	.05	.08	.04	.02	.00	.00	.00
Dishwashers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Waiters	.01	.01	.02	.03	.02	.01	.00	.00	.00
Other food serv wrks,exc privt	.00	.00	.00	.02	.02	.01	.00	.00	.00
Health service workers	.00	.00	.00	.22	.18	.12	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.12	.14	.10	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.07	.03	.01	.00	.00	.00
Practical nurses	.00	.00	.00	.04	.01	.01	.00	.00	.00
Personal service workers	.01	.02	.03	.02	.01	.01	.00	.00	.00
Elevator operators	.00	.00	.00	.02	.01	.01	.00	.00	.00
Housekeepers, exc private homes	.01	.02	.03	.00	.00	.00	.00	.00	.00
Protective service workers	.02	.02	.06	.20	.12	.11	.02	.02	.02
Guards	.02	.02	.06	.19	.11	.11	.02	.02	.02

Table 1..Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Agricultural production			Services, except horticulture			Horticultural services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	.00	.00	.00	26.14	27.84	30.33	81.42	82.48	82.43
Animal caretakers, exc farm	.00	.00	.00	22.29	24.57	28.19	.00	.00	.00
Carpenter helpers	.00	.00	.00	.02	.01	.01	.02	.02	.01
Constr labr,exc carpenter help	.00	.00	.00	.10	.07	.02	.59	.50	.35
Freight and material handlers	.00	.00	.00	.55	.54	.40	.31	.31	.31
Gardenrs,groundkeepers,exc farm	.00	.00	.00	1.99	1.57	.90	80.29	81.44	81.58
Timbercutting, logging workers	.00	.00	.00	.00	.00	.00	.12	.11	.11
Stock handlers	.00	.00	.00	.06	.05	.04	.04	.04	.02
Teamsters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Vehicle washers,equip cleaners	.00	.00	.00	.09	.11	.10	.04	.04	.04
Warehouse labcrers, other	.00	.00	.00	.05	.03	.01	.01	.01	.01
Other laborers	.00	.00	.00	.99	.88	.67	.00	.00	.00
Farmers and farm workers	98.28	95.64	94.25	27.85	31.56	34.49	.00	.00	.00
Farmers and farm managers	54.69	51.81	53.58	1.87	2.35	2.52	.00	.00	.00
Farmers (owners and tenants)	53.67	50.63	51.22	1.31	1.73	1.83	.00	.00	.00
Farm managers	1.02	1.18	2.36	.55	.62	.70	.00	.00	.00
Farm laborers, farm supervisors	43.59	43.83	40.67	25.99	29.20	31.97	.00	.00	.00
Farm labor supervisors	.92	1.23	1.27	1.32	1.60	1.94	.00	.00	.00
Farm laborers, wage workers	27.41	32.13	30.01	22.10	23.48	26.05	.00	.00	.00
Farm laborers, unpaid family	15.06	10.47	9.00	1.00	.46	.25	.00	.00	.00
Farm laborers, self-employed	.20	.01	.39	1.56	3.66	3.72	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Forestry			Fisheries			Mining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	50.06	55.08	59.66	3.56	3.88	9.34	10.61	12.11	12.21
Engineers, technical	2.61	2.58	2.84	.40	.47	.90	3.03	3.15	3.55
Chemical	.00	.00	.00	.00	.00	.00	.17	.18	.13
Civil	2.07	2.04	2.35	.00	.00	.00	.19	.16	.18
Electrical	.07	.07	.05	.00	.00	.00	.16	.17	.12
Industrial	.13	.14	.17	.00	.00	.00	.16	.18	.17
Mechanical	.07	.10	.17	.40	.47	.90	.23	.25	.25
Metallurgical	.00	.00	.00	.00	.00	.00	.04	.03	.04
Mining	.00	.00	.00	.00	.00	.00	.53	.48	.67
Petroleum	.00	.00	.00	.00	.00	.00	1.39	1.55	1.86
Sales	.00	.00	.00	.00	.00	.00	.07	.07	.07
Other engineers	.27	.24	.10	.00	.00	.00	.09	.09	.07
Life and physical scientists	1.28	2.07	1.81	.68	.95	1.84	2.65	2.64	3.04
Agricultural	.64	.91	.93	.28	.42	.92	.00	.00	.00
Atmospheric and space	.08	.21	.19	.00	.00	.00	.00	.00	.00
Biological	.46	.85	.62	.39	.51	.92	.00	.00	.01
Chemists	.06	.07	.05	.00	.00	.00	.42	.43	.41
Geologists	.00	.00	.00	.00	.00	.00	2.20	2.17	2.58
Marine	.00	.00	.00	.01	.01	.00	.00	.01	.02
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.02	.03	.03
Other life, physical scientists	.03	.04	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.11	.11	.05	.03	.02	.00	.03	.04	.02
Mathematicians	.01	.01	.00	.00	.00	.00	.01	.02	.01
Statisticians	.10	.10	.05	.03	.02	.00	.02	.02	.01
Engineering, science technicians	2.43	2.94	2.83	.29	.37	.72	1.91	2.16	2.23
Agricultural, biologcl, exc health	.12	.14	.11	.13	.11	.18	.01	.01	.01
Chemical technicians	.00	.00	.00	.03	.05	.02	.31	.36	.36
Drafters	.53	.58	.65	.04	.04	.05	.54	.54	.56
Electrical and electronic	.16	.21	.14	.00	.00	.00	.11	.15	.14
Industrial engineering	.00	.00	.00	.00	.00	.00	.02	.02	.01
Mechanical engineering	.01	.01	.01	.00	.00	.00	.00	.00	.00
Surveyors	.95	1.18	1.28	.00	.00	.00	.25	.25	.22
Other engineering, science teca	.67	.82	.64	.10	.17	.46	.68	.83	.93
Medical workers, exc technicians	.02	.02	.03	.00	.00	.00	.03	.02	.03
Physicians and osteopatas	.02	.02	.03	.00	.00	.00	.01	.01	.00
Registered nurses	.00	.00	.00	.00	.00	.00	.02	.02	.02
Health technologists, technicians	.02	.03	.01	.00	.00	.00	.00	.00	.00
Other health technicians	.02	.03	.01	.00	.00	.00	.00	.00	.00
Technicians, except health	1.18	1.62	1.36	.00	.00	.00	.25	.43	.56
Airplane pilots	.13	.18	.21	.00	.00	.00	.09	.22	.37
Radio operators	.48	.52	.23	.00	.00	.00	.04	.05	.02
Other technicians except health	.57	.92	.92	.00	.00	.00	.12	.17	.17
Computer specialists	.19	.26	.18	.03	.03	.04	.43	.63	.60
Computer programmers	.17	.23	.15	.03	.03	.04	.28	.36	.34
Computer systems analysts	.02	.04	.04	.00	.00	.00	.14	.23	.25
Other computer specialists	.00	.00	.00	.00	.00	.00	.02	.03	.02
Social scientists	.14	.25	.17	.00	.00	.00	.07	.13	.11
Economists	.13	.22	.17	.00	.00	.00	.06	.12	.11
Psychologists	.01	.02	.00	.00	.00	.00	.00	.00	.00
Sociologists	.01	.02	.00	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	.36	.51	.62	.00	.00	.00	.11	.14	.10
Designers	.09	.11	.04	.00	.00	.00	.02	.02	.02
Editors and reporters	.14	.23	.41	.00	.00	.00	.00	.00	.00
Photographers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Public relations specialists	.13	.17	.17	.00	.00	.00	.08	.11	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Forestry			Fisheries			Mining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	41.73	44.69	49.76	2.13	2.05	5.84	2.12	2.78	1.98
Accountants	.59	.77	.75	.14	.22	.86	1.49	1.90	1.47
Architects	.23	.20	.09	.00	.00	.00	.00	.00	.00
Farm management advisors	.04	.05	.07	.00	.00	.00	.00	.00	.00
Foresters and conservationists	39.57	42.11	48.05	1.87	1.74	4.94	.01	.01	.03
Lawyers	.02	.03	.00	.00	.00	.00	.21	.41	.22
Librarians	.04	.04	.00	.00	.00	.00	.01	.01	.00
Operations and systems research	.02	.03	.01	.00	.00	.00	.07	.10	.07
Personnel, labor relations wkrs	.55	.72	.50	.03	.02	.01	.25	.28	.16
Other research workers	.45	.38	.11	.10	.06	.03	.09	.07	.04
Recreation workers	.17	.31	.16	.00	.00	.00	.00	.00	.00
Vocation, education counselors	.05	.06	.01	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	4.11	5.93	6.09	6.69	8.32	14.87	6.76	7.80	6.57
Buyers, sales, loan managers	.59	.60	.48	.12	.11	.21	1.04	1.07	.98
Bank, financial managers	.09	.08	.02	.00	.00	.00	.09	.09	.05
Credit managers	.00	.00	.00	.00	.00	.00	.04	.02	.02
Purchasing agents, buyers, other	.41	.39	.26	.11	.09	.19	.72	.73	.67
Sales manager, exc retail trade	.09	.13	.19	.01	.01	.02	.19	.23	.23
Other managers, officials, proprts	3.53	5.33	5.62	6.56	8.22	14.66	5.72	6.73	5.60
Mgrs, superintendents, building	.03	.03	.03	.00	.00	.00	.01	.02	.03
Office managers, other	.28	.33	.30	.07	.07	.18	.36	.43	.47
Officers, pilots, pursers, ship	.02	.02	.02	4.01	4.47	8.05	.12	.12	.11
Restaurant, cafe, bar, managers	.02	.02	.00	.00	.00	.00	.00	.00	.00
Other managers, administrators	3.18	4.95	5.26	2.48	3.68	6.43	5.22	6.16	4.99
Sales workers	.37	.43	.42	.59	.51	.00	.47	.41	.19
Advertising agents, sales worker	.00	.00	.00	.00	.00	.00	.00	.01	.03
Other sales workers	.37	.43	.42	.59	.51	.00	.47	.40	.16
Clerical workers	8.30	8.88	8.89	1.56	1.76	3.40	9.00	9.76	8.17
Stenographers, typists, secretaries	4.37	4.60	5.14	.65	.78	1.69	3.30	3.49	3.05
Legal secretaries	.00	.00	.00	.00	.00	.00	.08	.08	.09
Other secretaries	1.70	1.86	2.55	.48	.55	1.13	2.64	2.90	2.58
Stenographers	.41	.29	.25	.02	.01	.01	.15	.09	.02
Typists	2.27	2.45	2.35	.15	.22	.55	.44	.42	.36
Office machine operators	.38	.43	.30	.03	.04	.07	.66	.95	.54
Bookkeeping and billing	.02	.01	.01	.01	.01	.01	.04	.02	.01
Calculating	.01	.01	.01	.00	.00	.00	.03	.02	.01
Computer and peripheral equip	.05	.12	.09	.02	.03	.05	.26	.61	.35
Duplicating	.02	.02	.01	.00	.00	.00	.02	.02	.02
Keypunch	.23	.21	.14	.00	.00	.00	.27	.24	.12
Other office machine operators	.05	.06	.04	.00	.00	.00	.04	.04	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Forestry			Fisheries			Mining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	3.55	3.86	3.45	.88	.93	1.65	5.04	5.31	4.59
Billing clerks	.03	.04	.03	.00	.00	.00	.10	.11	.12
Bookkeepers	.86	.96	1.23	.37	.44	.96	1.50	1.54	1.28
Cashiers	.09	.11	.27	.03	.02	.02	.04	.06	.08
Clerical supervisors, other	.27	.38	.33	.00	.00	.00	.12	.15	.13
Collectors, bill and account	.00	.00	.00	.00	.00	.00	.01	.01	.00
Counter clerks,exc food	.00	.00	.00	.02	.02	.04	.05	.05	.04
Dispatchers,starters,vehicle	.06	.06	.06	.00	.00	.00	.22	.24	.22
Estimators,investigators,other	.22	.26	.11	.00	.00	.00	.25	.32	.21
Expeditors,production controirs	.05	.04	.02	.00	.00	.00	.22	.25	.22
File clerks	.25	.23	.11	.02	.01	.02	.14	.14	.13
Library attendants, assistants	.04	.04	.01	.00	.00	.00	.01	.01	.00
Mail handlers,exc post office	.00	.00	.00	.00	.00	.00	.09	.10	.07
Messengers and office helpers	.01	.01	.01	.00	.00	.00	.02	.03	.02
Payroll,timekeeping clerks	.12	.17	.17	.02	.04	.06	.24	.28	.25
Receptionists	.25	.26	.12	.03	.03	.06	.17	.17	.11
Shipping and receiving clerks	.06	.06	.07	.10	.06	.02	.12	.11	.12
Statistical clerks	.26	.28	.16	.07	.06	.00	.27	.34	.27
Stock clerks and store keepers	.26	.20	.09	.05	.03	.01	.49	.43	.41
Telephone operators	.05	.02	.00	.00	.00	.00	.13	.10	.09
Weighers	.24	.26	.15	.06	.06	.11	.29	.26	.24
Misc clerical workers	.43	.49	.51	.13	.17	.36	.56	.62	.56
Crafts and kindred workers	6.30	5.98	5.54	2.35	2.45	4.07	24.29	24.83	26.69
Construction crafts workers	2.38	2.21	1.86	1.01	1.01	1.30	7.46	7.08	8.69
Carpenters and apprentices	.61	.82	1.12	.50	.62	1.13	1.34	1.43	1.61
Brick,stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.10	.08	.05
Bulldozer operators	.60	.38	.18	.17	.12	.00	1.30	1.26	2.15
Cement and concrete finishers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Electricians and apprentices	.04	.03	.02	.02	.02	.01	1.62	1.69	1.98
Excavating,grading mach operatr	.98	.83	.44	.09	.06	.00	2.54	2.07	2.30
Floor layers, exc tile setters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Painters and apprentices	.12	.10	.02	.20	.17	.12	.17	.15	.11
Plumbers,pipefitters,aprentices	.04	.04	.08	.01	.01	.02	.36	.37	.44
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Blue collar worker supervisors	1.10	1.13	1.32	.40	.50	1.10	5.63	6.32	6.24
Metalworkg craft wkrs,exc meca	.05	.05	.06	.07	.09	.25	.95	1.03	1.56
Blacksmiths	.00	.00	.00	.00	.00	.00	.05	.03	.00
Boilermakers	.00	.00	.00	.00	.00	.00	.08	.07	.07
Forge and hammer operators	.00	.00	.00	.00	.00	.00	.01	.01	.02
Machinists and apprentices	.04	.05	.06	.07	.09	.25	.62	.73	1.20
Millwrights	.00	.00	.00	.00	.00	.00	.14	.14	.21
Sheetmetal workers, apprentices	.02	.01	.01	.00	.00	.00	.02	.02	.03
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.02	.02	.02
Mechanics,repairers,installers	1.48	1.36	1.09	.47	.51	1.07	5.49	6.20	7.31
Air cond, heating, refig meca	.00	.00	.00	.02	.03	.06	.05	.07	.06
Aircraft mechanics	.02	.03	.05	.00	.00	.00	.02	.03	.05
Auto body repairers	.00	.00	.00	.03	.03	.04	.01	.01	.01
Auto mechanics and apprentices	.61	.47	.14	.07	.05	.06	.81	.68	.53
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Heavy equip mech, incl diesel	.53	.62	.74	.21	.31	.88	4.06	4.84	6.19
Radio, television repairers	.21	.17	.15	.00	.00	.00	.03	.03	.03
Railroad, car shop repairers	.00	.00	.00	.00	.00	.00	.05	.05	.07
Other mechanics and apprentices	.11	.07	.01	.14	.10	.04	.46	.48	.36
Printing trade crafts workers	.01	.00	.00	.00	.00	.00	.04	.05	.04
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.02	.03	.03
Press,plate printers,aprentices	.00	.00	.00	.00	.00	.00	.02	.02	.02
Transport,public util craft wkrs	.16	.09	.00	.00	.00	.00	.16	.17	.15
Elec pwr line instaler,repairer	.00	.00	.00	.00	.00	.00	.03	.02	.00
Locomotive engineers	.00	.00	.00	.00	.00	.00	.10	.10	.09
Power station operators	.00	.00	.00	.00	.00	.00	.02	.03	.04
Telephone installers,repairers	.16	.09	.00	.00	.00	.00	.00	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Forestry			Fisheries			Mining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.13	1.14	1.21	.40	.35	.35	4.56	3.98	2.70
Crane,derrick,hoist operator	.14	.17	.46	.09	.09	.21	1.03	.80	.97
Inspectors, lcg and lumber	.34	.39	.38	.00	.00	.00	.00	.00	.00
Inspectors, other	.31	.36	.33	.03	.03	.03	.49	.61	.65
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.06	.04	.01	.10	.07	.04	2.88	2.45	1.01
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.09	.06	.02
Other crafts workers	.27	.17	.03	.18	.16	.07	.06	.06	.06
Operatives	3.28	2.75	2.52	5.25	6.29	10.59	42.25	39.22	41.29
Operatives,except transport	1.95	1.91	2.13	4.02	4.85	7.35	35.03	32.23	32.55
Semiskilled metalworking	.19	.20	.21	.14	.17	.41	2.04	2.05	2.17
Drill press operatives	.00	.00	.00	.00	.00	.00	.01	.00	.00
Furnace tendrs,smeltrs,pourers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Grinding machine operatives	.00	.00	.00	.00	.00	.00	.13	.11	.07
Lathe,milling mach operatives	.01	.01	.01	.03	.02	.03	.04	.03	.02
Other precision mach operators	.01	.01	.01	.01	.01	.00	.01	.01	.00
Welders and flamecutters	.17	.19	.19	.10	.15	.39	1.81	1.87	2.06
Semiskilled packing, inspecting	.13	.13	.12	.70	.83	1.44	.06	.04	.02
Packer,wrapper,exc meat,prodc	.13	.13	.12	.69	.82	1.44	.06	.04	.02
Produce grdr, pkrs,exc fact,farm	.00	.00	.00	.01	.01	.00	.00	.00	.00
Other operatives, exc transport	1.64	1.58	1.80	3.18	3.85	5.49	32.92	30.14	30.36
Assemblers	.01	.02	.02	.00	.00	.00	.05	.08	.13
Blasters	.00	.00	.00	.00	.00	.00	.59	.58	.58
Bottling,canning operatives	.00	.00	.00	.03	.04	.08	.00	.00	.00
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.07	.08	.12
Cutting operatives, other	.10	.08	.04	.00	.00	.00	.73	.80	.97
Drillers, earth	.00	.00	.00	.00	.00	.00	4.16	4.34	4.01
Filer,polisher,sander,buffer	.00	.00	.00	.00	.00	.00	.03	.02	.01
Garage wrkr,gas station atten	.03	.02	.01	.01	.01	.01	.05	.03	.02
Mine operatives,other	.00	.00	.00	.00	.00	.00	26.02	23.07	23.32
Mixing operatives	.02	.02	.01	.00	.00	.00	.05	.06	.06
Oilers,greasers,exc automobiles	.01	.01	.01	.04	.03	.00	.81	.80	.83
Photographic process workers	.02	.03	.03	.00	.00	.00	.01	.01	.00
Sailors and deckhands	.00	.00	.00	.13	.08	.00	.07	.07	.09
Sawyers	.29	.33	.64	.00	.00	.00	.08	.08	.08
Furnace tendr,stokr,exc metal	.32	.26	.59	.03	.02	.08	.16	.10	.12
Miscellaneous machine operatives	.25	.23	.16	.15	.19	.35	.01	.01	.00
Other operatives,exc transport	.59	.59	.32	2.79	3.47	4.98	.01	.01	.01
Transport equipment operatives	1.32	.84	.39	1.23	1.44	3.24	7.23	7.00	8.74
Boat operators	.00	.00	.00	.56	.64	.96	.05	.06	.04
Bus drivers	.01	.02	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.05	.06	.12	.13	.15	.34	.23	.21	.22
Fork lift,tow motor operatives	.06	.05	.09	.04	.05	.09	.30	.33	.38
Rail vehicle operators, other	.00	.00	.00	.00	.00	.00	1.11	1.03	.85
Railroad brake operators	.00	.00	.00	.00	.00	.00	.01	.01	.02
Taxicab drivers, chauffeurs	.01	.01	.01	.00	.00	.00	.02	.03	.02
Truck drivers	1.19	.71	.17	.50	.61	1.86	5.50	5.33	7.22
Service workers	1.68	1.37	.97	1.16	1.09	2.08	1.46	1.30	.96
Cleaning service workers	.92	.74	.22	.38	.32	.39	.92	.82	.54
Bldg interior cleaners, other	.12	.08	.02	.10	.09	.10	.11	.11	.06
Janitors and sextons	.80	.65	.20	.28	.24	.29	.81	.72	.48
Food service workers	.19	.15	.08	.58	.55	.88	.15	.14	.14
Waiters' assistants	.01	.02	.02	.00	.00	.00	.00	.00	.00
Cooks,exc private households	.16	.13	.04	.53	.51	.78	.10	.09	.06
Dishwashers	.01	.00	.01	.00	.00	.00	.00	.00	.01
Food counter,fountain workers	.00	.00	.00	.00	.00	.00	.01	.02	.04
Waiters	.01	.01	.01	.05	.04	.09	.01	.01	.01
Other food serv wkrs,exc privt	.00	.00	.00	.00	.00	.00	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Forestry			Fisheries			Mining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Elevator operators	.00	.00	.00	.00	.00	.00	.02	.03	.04
Protective service workers	.57	.48	.67	.20	.22	.82	.36	.30	.22
Firefighters	.39	.35	.63	.00	.00	.00	.01	.01	.02
Guards	.15	.10	.01	.17	.20	.82	.35	.28	.20
Police and detectives	.03	.04	.03	.04	.02	.00	.01	.01	.00
Laborers, except farm	25.91	19.58	15.91	78.85	75.69	55.65	5.16	4.57	3.93
Animal caretakers, exc farm	.02	.03	.02	2.24	2.93	5.36	.01	.01	.01
Carpenter helpers	.13	.15	.20	.10	.09	.18	.08	.07	.09
Constr labr,exc carpenter help	.51	.38	.09	.13	.09	.04	.85	.71	.40
Fishers,hunters,trappers	.00	.00	.00	74.25	70.26	46.44	.00	.00	.00
Freight and material handlers	.20	.16	.20	.36	.40	.58	2.87	2.63	2.43
Gardenrs,groundkeepers,exc farm	2.73	2.69	2.08	.59	.74	1.33	.07	.07	.06
Longshore workers, stevedores	.00	.00	.00	.04	.03	.01	.00	.01	.02
Timbercutting, logging workers	.32	.26	.14	.01	.01	.02	.01	.01	.00
Stock handlers	.00	.00	.00	.19	.18	.14	.04	.04	.03
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.02
Vehicle washers,equip cleaners	.01	.01	.01	.12	.11	.07	.13	.11	.05
Warehouse labcrers, other	.18	.21	.18	.04	.05	.17	.16	.17	.25
Other laborers	21.80	15.70	13.00	.79	.79	1.30	.94	.74	.56

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metal mining			Coal mining			Crude petroleum, natural gas		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	8.84	9.43	9.70	2.02	2.28	2.66	18.37	19.38	21.22
Engineers, technical	2.55	2.61	3.15	.87	.92	1.18	5.08	4.85	5.81
Chemical	.07	.07	.06	.02	.02	.03	.31	.28	.22
Civil	.14	.11	.13	.08	.07	.10	.29	.23	.26
Electrical	.11	.11	.11	.07	.06	.04	.26	.25	.20
Industrial	.21	.24	.22	.07	.09	.12	.21	.23	.20
Mechanical	.16	.15	.13	.06	.06	.05	.38	.39	.44
Metallurgical	.16	.18	.16	.00	.00	.00	.02	.03	.04
Mining	1.61	1.67	2.25	.57	.60	.83	.18	.17	.20
Petroleum	.03	.02	.02	.00	.00	.00	3.16	3.02	4.01
Sales	.01	.01	.01	.00	.00	.00	.14	.12	.13
Other engineers	.06	.06	.07	.02	.02	.02	.15	.13	.12
Life and physical scientists	2.49	2.40	2.44	.19	.20	.22	4.86	4.42	5.69
Biological	.00	.00	.00	.00	.00	.00	.00	.01	.02
Chemists	1.11	1.13	.95	.15	.16	.16	.40	.45	.49
Geologists	1.38	1.27	1.49	.04	.04	.06	4.41	3.89	5.09
Marine	.00	.00	.00	.00	.00	.00	.01	.02	.04
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.04	.05	.06
Mathematical specialists	.01	.01	.01	.00	.00	.00	.06	.07	.05
Mathematicians	.00	.00	.00	.00	.00	.00	.03	.03	.03
Statisticians	.01	.01	.01	.00	.00	.00	.04	.03	.02
Engineering, science technicians	1.57	1.72	2.00	.44	.49	.60	3.15	3.31	3.67
Agricultural, biologcl, exc health	.02	.02	.03	.00	.00	.00	.01	.01	.01
Chemical technicians	.14	.14	.08	.00	.00	.00	.58	.62	.72
Drafters	.41	.37	.41	.10	.09	.11	.98	.90	1.00
Electrical and electronic	.06	.08	.10	.01	.01	.01	.22	.26	.26
Industrial engineering	.03	.04	.03	.00	.00	.00	.00	.00	.00
Surveyors	.27	.28	.30	.22	.24	.27	.32	.29	.20
Other engineering, science tech	.65	.79	1.05	.12	.15	.20	1.04	1.22	1.48
Medical workers, exc technicians	.10	.09	.04	.01	.01	.01	.02	.02	.04
Physicians and osteopaths	.04	.04	.03	.00	.00	.00	.00	.00	.00
Registered nurses	.06	.05	.01	.01	.01	.01	.01	.02	.04
Health technologists, technicians	.01	.02	.01	.00	.00	.00	.00	.00	.00
Other health technicians	.01	.02	.01	.00	.00	.00	.00	.00	.00
Technicians, except health	.15	.21	.23	.05	.07	.07	.42	.71	1.04
Airplane pilots	.02	.03	.02	.02	.03	.02	.18	.39	.76
Radio operators	.01	.02	.01	.00	.00	.00	.07	.09	.03
Tool programmers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other technicians except health	.11	.17	.21	.03	.04	.05	.17	.23	.23
Computer specialists	.23	.30	.26	.03	.04	.05	.84	1.10	1.18
Computer programmers	.14	.17	.14	.02	.03	.03	.54	.63	.66
Computer systems analysts	.08	.13	.11	.01	.02	.02	.26	.41	.49
Other computer specialists	.01	.01	.01	.00	.00	.00	.04	.06	.03
Social scientists	.02	.03	.03	.01	.02	.02	.14	.23	.21
Economists	.02	.03	.03	.01	.02	.02	.13	.22	.21
Writers, artists, entertainers	.06	.08	.08	.00	.00	.00	.19	.23	.19
Designers	.00	.00	.00	.00	.00	.00	.03	.04	.04
Photographers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Public relations specialists	.06	.08	.08	.00	.00	.00	.13	.17	.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metal mining			Coal mining			Crude petroleum, natural gas		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.67	1.96	1.43	.41	.54	.52	3.62	4.44	3.34
Accountants	1.05	1.21	.96	.30	.36	.32	2.57	3.05	2.54
Foresters and conservationists	.00	.00	.00	.01	.02	.02	.01	.02	.05
Lawyers	.11	.22	.18	.02	.08	.10	.41	.70	.35
Librarians	.00	.00	.00	.00	.00	.00	.03	.03	.01
Operations and systems research	.07	.10	.08	.01	.02	.01	.11	.15	.10
Personnel, labor relations wkr	.31	.31	.15	.05	.06	.03	.37	.40	.25
Other research workers	.13	.11	.05	.02	.01	.03	.13	.10	.04
Recreation workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	3.02	3.57	3.11	2.53	2.88	2.54	9.82	10.55	9.55
Buyers, sales, loan managers	.53	.53	.54	.26	.25	.23	1.78	1.69	1.67
Bank, financial managers	.10	.11	.09	.03	.03	.02	.12	.12	.06
Credit managers	.00	.00	.00	.01	.00	.00	.06	.04	.04
Purchasing agents, buyers, other	.37	.35	.36	.19	.18	.17	1.29	1.18	1.17
Sales manager, exc retail trade	.06	.07	.08	.04	.04	.05	.32	.36	.40
Other managers, officials, proprts	2.49	3.04	2.57	2.27	2.63	2.31	8.03	8.87	7.88
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.02	.01	.02	.05
Office managers, other	.21	.25	.31	.11	.13	.11	.49	.58	.72
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.22	.20	.20
Other managers, administrators	2.27	2.78	2.25	2.15	2.49	2.17	7.31	8.06	6.91
Sales workers	.13	.13	.07	.11	.13	.13	.69	.52	.15
Advertising agents, sales worker	.00	.00	.00	.00	.00	.00	.01	.02	.06
Other sales wcrkers	.13	.13	.07	.11	.13	.13	.69	.50	.09
Clerical workers	5.68	5.70	5.04	3.78	3.94	3.56	13.37	13.86	12.30
Stenographers, typists, secretaries	2.11	2.04	1.79	.76	.83	.82	5.53	5.45	5.17
Legal secretaries	.03	.03	.05	.00	.00	.01	.16	.15	.16
Other secretaries	1.69	1.67	1.48	.61	.70	.69	4.37	4.50	4.37
Stenographers	.04	.02	.01	.02	.01	.01	.29	.16	.03
Typists	.35	.31	.26	.13	.12	.12	.71	.65	.60
Office machine operators	.36	.41	.26	.11	.15	.10	1.20	1.60	.97
Bookkeeping and billing	.02	.01	.01	.00	.00	.00	.06	.03	.02
Calculating	.01	.00	.01	.00	.00	.00	.06	.04	.02
Computer and peripheral equip	.09	.19	.12	.04	.10	.07	.49	1.04	.65
Duplicating	.02	.01	.01	.00	.00	.00	.04	.04	.04
Keypunch	.21	.18	.11	.05	.04	.03	.47	.38	.20
Tabulating	.00	.00	.00	.00	.00	.00	.02	.01	.00
Other office machine operators	.01	.01	.01	.01	.00	.00	.07	.07	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metal mining			Coal mining			Crude petroleum, natural gas		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	3.21	3.25	2.99	2.91	2.96	2.64	6.63	6.81	6.17
Billing clerks	.08	.10	.13	.06	.06	.06	.12	.14	.15
Bookkeepers	.62	.60	.43	.61	.63	.58	2.11	2.07	1.88
Cashiers	.01	.01	.01	.04	.05	.06	.06	.07	.10
Clerical supervisors, other	.08	.09	.08	.03	.04	.05	.21	.25	.22
Collectors, bill and account	.01	.01	.01	.00	.00	.00	.02	.02	.00
Counter clerks,exc food	.06	.07	.08	.02	.03	.04	.05	.05	.03
Dispatchers,starters,vehicle	.06	.07	.09	.01	.01	.01	.31	.33	.34
Enumerators and interviewers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Estimators,investigators,other	.07	.09	.07	.09	.11	.10	.44	.52	.33
Expeditors,production controirs	.16	.18	.17	.02	.02	.03	.36	.39	.39
File clerks	.08	.07	.06	.02	.02	.02	.26	.23	.25
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.02	.02	.01
Mail handlers,exc post office	.03	.03	.03	.02	.02	.03	.16	.16	.11
Messengers and office helpers	.03	.03	.02	.01	.01	.01	.03	.04	.04
Payroll,timekeeping clerks	.31	.38	.40	.18	.21	.19	.24	.28	.27
Real estate appraisers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Receptionists	.14	.12	.06	.03	.04	.05	.30	.28	.17
Shipping and receiving clerks	.13	.14	.20	.10	.08	.06	.09	.10	.13
Statistical clerks	.12	.14	.13	.08	.09	.06	.48	.54	.48
Stock clerks and store keepers	.65	.59	.50	1.03	.95	.82	.21	.18	.14
Telephone operators	.11	.08	.05	.06	.05	.04	.18	.13	.13
Weighers	.14	.15	.15	.38	.40	.36	.02	.01	.01
Misc clerical workers	.31	.33	.33	.11	.12	.08	.98	1.01	.99
Crafts and kindred workers	30.72	34.01	39.19	29.87	32.71	34.48	17.97	18.25	17.39
Construction crafts workers	9.61	9.98	11.49	13.40	13.97	15.25	2.16	2.26	2.74
Carpenters and apprentices	1.55	1.78	1.99	3.96	4.27	3.79	.18	.21	.23
Brick,stonemasons, apprentices	.17	.14	.04	.23	.19	.11	.01	.01	.00
Bulldozer operators	1.49	1.57	2.49	2.58	2.77	4.32	.27	.28	.43
Cement and concrete finishers	.00	.00	.00	.00	.00	.00	.01	.02	.05
Electricians and apprentices	2.83	3.10	3.37	3.40	3.67	3.60	.56	.65	.80
Excavating,grading mach operatr	2.55	2.36	2.52	3.09	2.94	3.32	.42	.38	.36
Floor layers, exc tile setters	.00	.00	.00	.00	.00	.00	.02	.02	.02
Painters and apprentices	.31	.30	.24	.02	.02	.02	.18	.18	.15
Plumbers,pipefitters,aprentices	.73	.73	.83	.07	.07	.07	.48	.52	.69
Roofers and slaters	.00	.00	.00	.01	.02	.02	.00	.00	.00
Structural metal craft workers	.00	.00	.00	.02	.01	.02	.03	.02	.01
Blue collar worker supervisors	6.26	6.93	6.36	6.06	6.81	6.49	5.31	6.04	6.09
Metalworkg craft wrkrs,exc mech	2.65	3.17	4.79	.71	.86	1.19	.54	.70	1.19
Blacksmiths	.16	.09	.01	.05	.03	.00	.02	.02	.00
Boilermakers	.34	.28	.15	.02	.03	.04	.06	.06	.09
Forge and hammer operators	.00	.00	.00	.03	.04	.06	.00	.00	.00
Machinists and apprentices	1.44	1.88	3.21	.57	.70	1.01	.39	.54	.96
Millwrights	.56	.78	1.22	.04	.06	.09	.02	.03	.06
Rollers and finishers,metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.11	.12	.19	.00	.00	.00	.02	.02	.02
Tool and diemakers, apprentices	.03	.03	.02	.00	.00	.00	.03	.03	.05
Mechanics,repairers,installers	8.90	10.89	13.78	7.17	8.54	9.18	3.34	3.94	4.37
Air cond, heating, refrig meca	.02	.02	.01	.00	.00	.00	.09	.13	.13
Aircraft mechanics	.01	.03	.08	.00	.00	.00	.04	.05	.09
Auto body repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	1.50	1.43	1.27	.46	.43	.33	.52	.48	.38
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.01	.02	.02
Heavy equip mech, incl diesel	6.35	8.27	11.19	6.17	7.53	8.41	2.18	2.75	3.39
Radio, television repairers	.00	.00	.00	.03	.02	.01	.04	.04	.03
Railroad, car shop repairers	.27	.34	.52	.04	.05	.04	.00	.00	.00
Other mechanics and apprentices	.73	.79	.71	.48	.51	.38	.46	.47	.32
Printing trade crafts workers	.04	.05	.07	.00	.00	.00	.07	.08	.08
Compositors and typesetters	.04	.05	.07	.00	.00	.00	.03	.04	.04
Press,plate printers,aprentices	.00	.00	.00	.00	.00	.00	.03	.04	.03
Transport,public util craft wkrs	.43	.53	.39	.06	.07	.05	.09	.09	.08
Elec pwr line instaler,repairer	.00	.00	.00	.00	.00	.00	.06	.04	.00
Locomotive engineers	.31	.39	.21	.05	.06	.04	.00	.00	.00
Locomotive engineers' helpers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Power station operators	.11	.13	.17	.01	.00	.00	.02	.02	.04
Telephone installers,repairers	.00	.00	.00	.00	.00	.00	.01	.02	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metal mining			Coal mining			Crude petroleum, natural gas		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	2.83	2.47	2.32	2.47	2.47	2.31	6.46	5.13	2.85
Crane, derrick, hoist operator	1.79	1.53	1.79	.48	.41	.46	.50	.48	.75
Inspectors, other	.36	.37	.20	.80	.98	1.02	.48	.58	.60
Stationary engineers	.57	.46	.24	1.17	1.06	.84	5.41	4.00	1.43
Other crafts workers	.11	.11	.09	.02	.01	.01	.06	.07	.08
Operatives	43.94	39.64	35.68	52.51	49.53	50.37	36.51	34.39	36.98
Operatives, except transport	37.17	32.24	25.06	44.03	40.91	41.03	32.95	30.65	32.07
Semiskilled metalworking	3.35	3.81	4.74	1.79	1.87	1.57	1.43	1.54	1.82
Furnace tendrs, smeltrs, pourers	.23	.24	.20	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.13	.11	.09	.04	.02	.02	.21	.17	.11
Heaters, metal	.01	.01	.02	.00	.00	.00	.00	.00	.00
Lathe, milling mach operatives	.00	.00	.00	.00	.00	.00	.06	.04	.02
Other precision mach operators	.00	.00	.00	.00	.00	.00	.01	.01	.00
Welders and flamecutters	2.97	3.45	4.42	1.75	1.84	1.55	1.15	1.32	1.68
Other operatives, exc transport	33.82	28.43	20.32	42.24	39.05	39.46	31.52	29.11	30.25
Assemblers	.00	.00	.00	.03	.03	.02	.11	.15	.26
Blasters	.71	.73	.82	1.24	1.27	1.06	.25	.23	.19
Surveyors' helpers	.10	.11	.16	.13	.16	.23	.06	.06	.06
Cutting operatives, other	.05	.06	.09	2.66	2.85	2.71	.07	.08	.08
Drillers, earth	4.08	3.92	2.84	2.46	2.21	1.33	5.73	5.96	6.74
Garage wrkr, gas station atten	.14	.10	.07	.00	.00	.00	.05	.03	.02
Meat cutters, butchers, exc mfy	.00	.00	.00	.02	.01	.01	.00	.00	.00
Mine operatives, other	27.17	21.94	14.69	34.16	30.97	32.69	24.57	21.88	22.03
Mixing operatives	.02	.02	.03	.04	.05	.07	.04	.04	.04
Oilers, greasers, exc automobiles	1.13	1.17	1.11	1.35	1.39	1.25	.35	.40	.52
Photographic process workers	.00	.00	.00	.00	.00	.00	.03	.03	.01
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.11	.11	.18
Sawyers	.06	.06	.04	.07	.07	.06	.02	.02	.05
Furnace tendr, stokr, exc metal	.33	.28	.44	.07	.04	.01	.08	.06	.08
Winding operatives, other	.00	.00	.00	.00	.00	.00	.02	.01	.00
Miscellaneous machine operatives	.00	.00	.00	.01	.01	.01	.01	.01	.00
Other operatives, exc transport	.03	.03	.03	.01	.01	.01	.01	.01	.00
Transport equipment operatives	6.78	7.40	10.63	8.48	8.62	9.34	3.56	3.75	4.92
Boat operators	.00	.00	.00	.00	.00	.00	.10	.09	.07
Delivery and route workers	.04	.04	.05	.13	.12	.11	.18	.17	.17
Fork lift, tow motor operatives	.30	.38	.44	.37	.48	.57	.07	.09	.10
Rail vehicle operators, other	1.08	1.00	.70	3.45	3.24	2.25	.29	.23	.08
Railroad brake operators	.06	.08	.15	.00	.00	.00	.00	.00	.00
Railroad switch operators	.01	.01	.01	.00	.00	.00	.01	.01	.01
Taxicab drivers, chauffeurs	.04	.04	.03	.00	.00	.00	.04	.04	.04
Truck drivers	5.24	5.83	9.25	4.53	4.77	6.42	2.87	3.11	4.45
Service workers	2.36	2.22	1.64	.99	.94	.70	1.24	1.17	.95
Cleaning service workers	1.54	1.48	1.13	.60	.56	.36	.82	.77	.51
Bldg interior cleaners, other	.14	.14	.09	.08	.08	.04	.12	.11	.05
Janitors and sextons	1.40	1.34	1.05	.52	.48	.31	.71	.66	.46
Food service workers	.05	.05	.04	.01	.01	.00	.28	.25	.29
Bartenders	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cooks, exc private households	.04	.03	.02	.00	.00	.00	.20	.16	.13
Dishwashers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.03	.04	.08
Waiters	.00	.00	.00	.00	.00	.00	.02	.01	.02
Other food serv wkrs, exc privt	.01	.01	.01	.00	.00	.00	.03	.03	.04
Health service workers	.05	.04	.08	.00	.00	.00	.00	.00	.00
Health aides, except nursing	.01	.01	.01	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.03	.02	.05	.00	.00	.00	.00	.00	.00
Practical nurses	.02	.01	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metal mining			Coal mining			Crude petroleum, natural gas		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.07	.09	.13	.03	.03	.03	.01	.02	.04
Attendants, personal serv, other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Elevator operators	.07	.09	.13	.02	.02	.02	.01	.02	.04
Protective service workers	.66	.57	.25	.36	.34	.31	.12	.13	.11
Firefighters	.01	.01	.01	.01	.01	.02	.01	.01	.02
Guards	.65	.56	.24	.34	.33	.29	.11	.11	.09
Police and detectives	.01	.01	.01	.01	.01	.01	.01	.01	.00
Laborers, except farm	5.31	5.31	5.57	8.19	7.61	5.56	2.03	1.88	1.47
Animal caretakers, exc farm	.00	.00	.00	.02	.02	.01	.02	.02	.01
Carpenter helpers	.21	.21	.33	.05	.05	.05	.03	.03	.05
Constr labr, exc carpenter help	.85	.81	.71	.61	.51	.28	.75	.62	.28
Freight and material handlers	1.96	2.03	2.16	5.63	5.45	4.14	.56	.57	.56
Gardenrs, groundkeepers, exc farm	.08	.08	.08	.03	.03	.03	.07	.07	.07
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.01	.02	.05
Timbercutting, logging workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Stock handlers	.05	.07	.08	.02	.03	.02	.02	.02	.02
Teamsters	.01	.01	.02	.01	.01	.01	.01	.01	.03
Vehicle washers, equip cleaners	.22	.22	.13	.08	.08	.05	.10	.09	.03
Warehouse labcrers, other	.47	.55	.90	.02	.02	.02	.16	.18	.27
Other laborers	1.46	1.33	1.16	1.72	1.40	.95	.31	.25	.12

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Nonmetallic mining and quarrying			Constructn			General building contractors		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.12	4.49	4.51	4.12	3.39	3.73	2.04	1.81	2.02
Engineers, technical	1.17	1.15	1.31	1.96	1.39	1.51	.93	.69	.73
Chemical	.14	.14	.15	.02	.02	.02	.01	.01	.01
Civil	.13	.10	.11	1.53	.98	1.03	.72	.49	.48
Electrical	.07	.07	.05	.13	.12	.14	.05	.04	.05
Industrial	.14	.15	.12	.05	.06	.08	.04	.05	.07
Mechanical	.14	.13	.12	.13	.12	.14	.08	.07	.08
Metallurgical	.02	.02	.02	.00	.00	.01	.00	.00	.00
Mining	.45	.46	.63	.00	.00	.00	.00	.00	.00
Sales	.05	.04	.05	.03	.03	.02	.02	.01	.01
Other engineers	.05	.05	.06	.06	.05	.08	.02	.02	.03
Life and physical scientists	.53	.53	.60	.04	.04	.05	.00	.01	.02
Agricultural	.01	.01	.02	.01	.01	.01	.00	.00	.00
Biological	.00	.00	.00	.00	.00	.01	.00	.01	.02
Chemists	.28	.28	.24	.01	.01	.01	.00	.00	.00
Geologists	.25	.24	.35	.02	.01	.02	.00	.00	.00
Engineering, science technicians	1.06	1.14	1.16	1.24	1.00	1.18	.40	.33	.41
Agricultural, biol, exc health	.01	.01	.01	.03	.03	.02	.00	.00	.00
Chemical technicians	.16	.18	.17	.04	.04	.05	.00	.00	.00
Drafters	.17	.15	.16	.46	.36	.45	.28	.23	.28
Electrical and electronic	.02	.01	.01	.04	.05	.08	.01	.01	.03
Industrial engineering	.06	.08	.10	.00	.00	.00	.00	.00	.00
Mechanical engineering	.01	.01	.01	.00	.00	.00	.00	.00	.00
Surveyors	.11	.12	.13	.42	.30	.26	.09	.06	.04
Other engineering, science tech	.54	.59	.57	.25	.23	.33	.02	.03	.06
Technicians, except health	.16	.23	.28	.07	.08	.09	.02	.02	.03
Airplane pilots	.03	.06	.09	.01	.01	.01	.01	.01	.01
Radio operators	.01	.01	.01	.03	.03	.02	.00	.00	.00
Other technicians except health	.11	.16	.17	.03	.04	.06	.01	.01	.02
Computer specialists	.11	.14	.10	.06	.07	.07	.03	.03	.05
Computer programmers	.08	.09	.06	.04	.04	.05	.02	.02	.03
Computer systems analysts	.03	.04	.03	.01	.02	.02	.01	.01	.02
Other computer specialists	.01	.01	.01	.00	.01	.00	.00	.00	.00
Social scientists	.00	.00	.00	.01	.02	.02	.01	.02	.02
Economists	.00	.00	.00	.01	.01	.01	.01	.02	.02
Writers, artists, entertainers	.10	.11	.07	.18	.22	.24	.13	.15	.15
Designers	.02	.02	.00	.13	.15	.16	.09	.11	.11
Painters and sculptors	.00	.00	.00	.02	.02	.03	.00	.00	.00
Photographers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Public relations specialists	.08	.09	.07	.02	.03	.03	.03	.04	.04
Other professional and technical	.99	1.18	1.00	.54	.57	.58	.52	.55	.62
Accountants	.72	.85	.77	.35	.39	.42	.34	.37	.41
Architects	.00	.00	.00	.05	.04	.06	.10	.09	.12
Foresters and conservationists	.00	.00	.00	.02	.01	.00	.00	.00	.00
Lawyers	.03	.04	.01	.03	.03	.01	.01	.02	.01
Operations and systems research	.02	.05	.06	.01	.01	.01	.01	.01	.02
Personnel, labor relations wkrs	.19	.20	.12	.07	.07	.06	.05	.05	.04
Other research workers	.04	.04	.04	.01	.01	.01	.01	.01	.01
Recreation workers	.00	.00	.00	.00	.00	.00	.00	.01	.01
Managers, officials, proprietors	7.70	9.40	9.16	9.93	12.50	9.74	16.19	22.15	13.31
Buyers, sales, loan managers	.65	.64	.64	.36	.36	.54	.32	.30	.38
Bank, financial managers	.10	.10	.06	.04	.04	.04	.06	.05	.05
Credit managers	.05	.03	.04	.01	.00	.00	.01	.00	.00
Purchasing agents, buyers, other	.31	.30	.32	.26	.24	.39	.15	.14	.21
Sales manager, exc retail trade	.19	.21	.22	.06	.08	.12	.10	.11	.13
Administrators, public inspectors	.00	.00	.00	.08	.09	.08	.00	.00	.00
Officials, administrators, public	.00	.00	.00	.08	.09	.08	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Nonmetallic mining and quarrying			Constructn			General building contractors		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers,officials,properts	7.05	8.77	8.51	9.49	12.06	9.12	15.88	21.85	12.93
Mgrs, superintendents, building	.00	.00	.00	.02	.03	.04	.06	.09	.13
Office managers, other	.49	.54	.57	.29	.31	.41	.23	.24	.31
Officers,pilots,pursers,ship	.13	.12	.13	.03	.03	.05	.00	.00	.00
Restaurant,cafe,bar,managers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	6.42	8.09	7.80	9.15	11.68	8.62	15.57	21.52	12.48
Sales workers	.67	.73	.65	.39	.44	.66	.60	.58	.56
Advertising agents,sales worker	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other sales workers	.66	.72	.64	.39	.44	.66	.59	.58	.56
Clerical workers	7.67	7.81	7.19	5.79	5.88	6.15	4.88	4.77	4.83
Stenographrs,typists,secretaries	2.05	1.99	1.79	1.93	1.84	1.99	1.75	1.58	1.60
Legal secretaries	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other secretaries	1.78	1.77	1.62	1.55	1.56	1.70	1.58	1.45	1.47
Stenographers	.04	.02	.01	.07	.03	.01	.02	.01	.00
Typists	.23	.20	.15	.30	.25	.28	.14	.12	.13
Office machine operators	.27	.36	.24	.13	.13	.12	.07	.07	.06
Bookkeeping and billing	.03	.02	.01	.02	.01	.01	.02	.01	.02
Computer and peripheral equip	.11	.24	.17	.03	.06	.06	.01	.03	.02
Keypunch	.12	.10	.06	.06	.04	.04	.04	.03	.02
Other clerical workers	5.35	5.46	5.15	3.74	3.91	4.03	3.06	3.12	3.17
Billing clerks	.12	.13	.15	.03	.04	.06	.02	.02	.04
Bookkeepers	1.84	1.83	1.64	1.35	1.32	1.08	1.15	1.05	.91
Cashiers	.04	.06	.11	.16	.14	.25	.01	.01	.02
Clerical supervisors, other	.04	.05	.08	.05	.05	.06	.03	.04	.05
Collectors, bill and account	.02	.01	.01	.01	.01	.01	.01	.00	.00
Counter clerks,exc food	.06	.06	.07	.02	.02	.03	.01	.01	.02
Dispatchers,starters,vehicle	.42	.44	.45	.03	.04	.06	.01	.01	.01
Estimators,investigators,other	.13	.15	.11	.86	1.06	.95	.88	1.06	.99
Expediters,prduction controlrs	.16	.17	.15	.09	.10	.16	.09	.10	.15
File clerks	.07	.06	.06	.06	.05	.06	.04	.03	.04
Mail handlers,exc post office	.05	.06	.06	.03	.03	.03	.02	.02	.03
Messengers and office helpers	.01	.01	.01	.02	.02	.02	.02	.02	.03
Payroll,timekeeping clerks	.27	.30	.24	.24	.26	.27	.21	.22	.23
Real estate appraisers	.00	.00	.00	.04	.04	.06	.00	.00	.00
Receptionists	.07	.07	.06	.12	.11	.11	.14	.13	.13
Shipping and receiving clerks	.20	.18	.14	.04	.04	.05	.03	.03	.04
Statistical clerks	.12	.15	.16	.08	.08	.10	.03	.03	.04
Stock clerks and store keepers	.38	.34	.27	.14	.13	.19	.06	.05	.08
Telephone operators	.11	.09	.10	.03	.02	.02	.03	.02	.01
Weighers	.96	.99	.93	.03	.03	.05	.01	.01	.01
Misc clerical workers	.30	.33	.37	.32	.33	.42	.28	.28	.34
Crafts and kindred workers	27.31	28.36	31.09	53.46	53.82	55.80	52.28	50.41	55.34
Construction crafts workers	11.09	10.67	11.94	44.08	44.03	45.11	47.90	46.05	50.12
Carpenters and apprentices	.71	.76	.70	15.32	15.67	15.18	36.20	35.44	35.94
Brick,stonemasons, apprentices	.11	.09	.05	3.23	3.05	2.91	3.82	3.37	3.78
Bulldozer operators	2.05	2.02	2.69	1.08	1.11	1.52	.37	.39	.62
Cement and concrete finishers	.00	.00	.01	1.29	1.29	1.47	1.32	1.20	1.47
Electricians and apprentices	.96	.99	.90	4.24	4.75	5.24	.62	.64	.91
Excavating,grading mach operatr	6.93	6.51	7.38	4.82	4.13	4.83	1.16	1.05	1.72
Floor layers, exc tile setters	.00	.00	.00	.31	.23	.20	.10	.08	.08
Painters and apprentices	.21	.19	.13	5.51	5.30	5.10	1.42	1.31	2.13
Paperhangers	.00	.00	.00	.19	.31	.30	.02	.04	.03
Plasterers and apprentices	.00	.00	.00	.55	.43	.38	.32	.26	.42
Plumbers,pipefitters,aprentices	.13	.11	.06	4.62	4.50	4.34	1.01	.90	1.35
Roofers and slaters	.00	.00	.00	1.31	1.89	1.99	.32	.45	.57
Structural metal craft workers	.00	.00	.00	1.09	.92	1.11	1.12	.81	.91
Tile setters	.00	.00	.01	.51	.45	.55	.12	.12	.19
Blue collar worker supervisors	5.38	6.05	6.04	2.72	2.78	2.60	2.31	2.38	2.51

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Nonmetallic mining and quarrying			Constructn			General building contractors		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Metalworkg craft wrkrs,exc mech	.85	.92	1.03	1.45	1.41	1.76	.47	.43	.55
Blacksmiths	.04	.02	.00	.01	.01	.00	.00	.00	.00
Boilermakers	.01	.01	.01	.10	.10	.11	.06	.05	.06
Forge and hammer operators	.02	.02	.01	.01	.00	.00	.00	.00	.00
Job and die setters, metal	.02	.02	.03	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.56	.64	.81	.09	.10	.15	.03	.04	.06
Millwrights	.19	.21	.17	.12	.14	.17	.15	.16	.20
Sheetmetal workers, apprentices	.00	.00	.00	1.12	1.07	1.33	.21	.18	.23
Tool and diemakers, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	5.82	6.83	7.99	2.52	2.97	3.43	.47	.54	.88
Air cond, heating, refrig mech	.01	.01	.03	.79	1.11	1.10	.04	.06	.08
Auto mechanics and apprentices	1.37	1.27	1.04	.43	.36	.35	.08	.07	.11
Heavy equip mech, incl diesel	4.14	5.26	6.70	.99	1.17	1.54	.30	.36	.63
Household appliance mechanics	.00	.00	.00	.18	.20	.27	.02	.03	.03
Radio, television repairers	.04	.04	.07	.03	.02	.02	.00	.00	.00
Railroad, car shop repairers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.24	.23	.12	.10	.11	.15	.02	.02	.03
Printing trade crafts workers	.00	.00	.00	.03	.03	.02	.03	.02	.03
Compositors and typesetters	.00	.00	.00	.01	.01	.01	.02	.02	.03
Transport,public util craft wrkrs	.21	.34	.50	.44	.44	.37	.05	.05	.06
Elec pwr line instaler,repairer	.00	.00	.00	.32	.32	.28	.03	.04	.05
Locomotive engineers	.20	.33	.48	.00	.00	.00	.00	.00	.00
Locomotive engineers' helpers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Telephone installers,repairers	.00	.00	.00	.09	.09	.08	.01	.01	.02
Telephone line instalr,splicers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other crafts, kindred workers	3.97	3.55	3.58	2.22	2.16	2.50	1.06	.93	1.19
Cabinetmakers	.01	.01	.01	.09	.08	.05	.21	.19	.12
Carpet installers	.00	.00	.00	.48	.58	.66	.03	.04	.09
Crane,derrick,hoist operator	2.38	2.07	2.62	.57	.45	.55	.52	.41	.59
Decorators, window dressers	.00	.00	.00	.00	.01	.01	.00	.00	.00
Glaziers	.01	.01	.01	.12	.16	.29	.02	.03	.08
Inspectors, other	.24	.26	.19	.61	.55	.56	.12	.12	.12
Sign painters and letterers	.00	.00	.00	.02	.02	.03	.00	.00	.00
Stationary engineers	.79	.68	.45	.10	.06	.02	.06	.04	.01
Stone cutters, stone carvers	.48	.44	.21	.01	.01	.00	.00	.00	.00
Other crafts workers	.07	.08	.08	.23	.24	.31	.09	.10	.17
Operatives	41.90	38.90	38.35	7.99	8.58	9.00	3.60	4.18	5.26
Operatives,except transport	27.07	23.12	17.00	4.20	5.39	6.27	2.36	3.11	4.20
Semiskilled metalworking	2.77	2.88	2.94	1.18	1.40	2.22	.68	.80	1.48
Drill press operatives	.06	.03	.00	.01	.00	.00	.00	.00	.00
Grinding machine operatives	.08	.06	.04	.00	.00	.01	.00	.00	.00
Lathe,milling mach operatives	.09	.07	.05	.02	.02	.02	.00	.00	.00
Other precision mach operators	.03	.02	.01	.01	.01	.01	.00	.00	.00
Welders and flamecutters	2.52	2.70	2.84	1.14	1.36	2.17	.68	.80	1.48
Semiskilled packing, inspecting	.35	.31	.20	.00	.00	.00	.00	.00	.00
Packer,wrapper,exc meat,prodce	.35	.31	.20	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Nonmetallic mining and quarrying			Constructn			General building contractors		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	23.95	19.93	13.85	3.02	4.00	4.05	1.68	2.31	2.72
Asbestos,insulation workers	.00	.00	.03	.42	.67	.78	.09	.13	.18
Assemblers	.00	.00	.00	.05	.07	.12	.03	.04	.07
Blasters	.53	.55	.64	.03	.03	.03	.01	.01	.01
Surveyors' helpers	.00	.00	.00	.08	.07	.07	.06	.05	.05
Cutting operatives, other	.45	.49	.51	.04	.04	.07	.03	.03	.05
Drillers, earth	2.58	2.36	1.43	.41	.40	.32	.03	.04	.06
Dry wall installers, lathers	.00	.00	.00	.99	1.76	1.80	.92	1.50	1.65
Filer,polisher,sander,buffer	.14	.12	.06	.01	.02	.03	.01	.01	.03
Garage wrkr,gas station atten	.01	.01	.01	.02	.01	.02	.00	.00	.00
Mine operatives,other	18.46	14.72	9.68	.00	.00	.00	.00	.00	.00
Mixing operatives	.12	.13	.15	.01	.01	.03	.01	.01	.03
Oilers,greasers,exc automobiles	.97	.93	.69	.17	.14	.07	.10	.08	.04
Photographic process workers	.00	.00	.00	.02	.02	.02	.01	.01	.01
Riveters and fasteners	.00	.00	.00	.01	.01	.02	.01	.01	.03
Sailors and deckhands	.09	.07	.06	.05	.02	.00	.00	.00	.00
Sawyers	.28	.30	.31	.04	.04	.03	.05	.05	.05
Furnace tendr,stokr,exc metal	.31	.24	.29	.02	.01	.01	.01	.01	.01
Winding operatives, other	.00	.00	.00	.01	.01	.03	.00	.00	.00
Miscellaneous machine operatves	.00	.00	.00	.21	.22	.19	.16	.17	.23
Other operatives,exc transport	.00	.00	.00	.43	.46	.43	.16	.18	.24
Transport equipment operatives	14.83	15.78	21.35	3.79	3.19	2.73	1.24	1.07	1.06
Boat operators	.06	.06	.07	.01	.01	.01	.00	.00	.00
Delivery and route workers	.62	.63	.87	.11	.10	.12	.08	.06	.08
Fork lift,tow motor operatives	.75	.90	.92	.11	.14	.20	.14	.17	.23
Rail vehicle operators, other	.18	.17	.14	.00	.01	.01	.00	.00	.00
Railroad brake operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.00	.00	.00	.03	.02	.01	.01	.01	.01
Truck drivers	13.20	13.99	19.34	3.52	2.91	2.38	1.01	.82	.75
Service workers	1.83	1.68	1.08	.81	.67	.65	.73	.60	.46
Cleaning service workers	1.05	.97	.63	.51	.44	.41	.55	.46	.34
Bldg interior cleaners, other	.11	.12	.10	.10	.10	.11	.17	.16	.15
Janitors and sextons	.94	.85	.52	.41	.34	.30	.38	.30	.19
Food service wrkrs	.07	.05	.04	.03	.02	.02	.02	.02	.01
Cooks,exc private households	.06	.03	.01	.01	.01	.01	.01	.00	.00
Dishwashers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Waiters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other food serv wrks,exc privt	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.02	.02	.01	.02	.02	.02	.06	.04	.03
Elevator operators	.02	.02	.01	.01	.01	.01	.04	.03	.01
Housekeepers, exc private homes	.00	.00	.00	.01	.00	.01	.02	.02	.02
Protective service workers	.69	.65	.41	.25	.20	.21	.10	.09	.08
Crossing guards,bridgetenders	.00	.00	.00	.07	.05	.07	.00	.00	.00
Firefighters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Guards	.67	.63	.39	.16	.14	.14	.10	.09	.08
Police and detectives	.02	.01	.01	.02	.01	.00	.00	.00	.00
Laborers, except farm	8.79	8.62	7.99	17.51	14.71	14.28	19.69	15.50	18.23
Carpenter helpers	.13	.13	.20	1.96	1.29	.80	5.67	3.33	1.46
Constr labr,exc carpenter helpr	1.38	1.28	1.00	14.85	12.71	12.68	13.63	11.75	16.22
Freight and material handlers	5.72	5.76	5.56	.29	.28	.31	.21	.21	.30
Garbage collectors	.01	.01	.02	.01	.01	.02	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.12	.13	.14	.29	.30	.34	.12	.15	.19
Timbercutting, logging workers	.02	.02	.01	.01	.01	.01	.00	.00	.00
Stock handlers	.09	.09	.06	.02	.03	.04	.01	.01	.02
Vehicle washers,equip cleaners	.17	.18	.11	.03	.03	.04	.01	.01	.02
Warehouse labrcrs, other	.09	.11	.18	.05	.05	.04	.03	.02	.02
Other laborers	1.06	.93	.71	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex Building			Special trade contractors			Manufacturing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	10.15	8.83	9.04	1.28	1.27	1.50	9.44	9.92	9.66
Engineers, technical	4.92	3.72	3.78	.56	.49	.58	3.05	2.81	2.75
Aeronautical	.00	.00	.00	.00	.00	.00	.27	.23	.22
Chemical	.06	.07	.05	.00	.00	.00	.21	.20	.20
Civil	4.19	2.98	2.98	.22	.16	.17	.07	.05	.04
Electrical	.19	.18	.17	.13	.13	.16	.80	.72	.68
Industrial	.11	.13	.15	.02	.02	.03	.56	.58	.59
Mechanical	.21	.21	.19	.11	.11	.14	.66	.61	.60
Metallurgical	.01	.01	.02	.00	.00	.00	.06	.06	.06
Mining	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sales	.01	.01	.01	.06	.04	.04	.09	.07	.05
Other engineers	.13	.13	.20	.02	.02	.03	.33	.29	.30
Life and physical scientists	.13	.13	.15	.00	.00	.00	.44	.44	.41
Agricultural	.02	.02	.02	.00	.00	.00	.00	.00	.00
Biological	.00	.01	.02	.00	.00	.00	.02	.04	.04
Chemists	.04	.04	.03	.00	.00	.00	.36	.35	.33
Geologists	.06	.05	.07	.00	.00	.00	.01	.01	.01
Marine	.01	.01	.01	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.01	.01	.01	.00	.00	.00	.03	.03	.03
Mathematical specialists	.03	.03	.03	.00	.00	.00	.04	.03	.03
Statisticians	.02	.02	.03	.00	.00	.00	.03	.02	.03
Engineering, science technicians	3.36	2.97	3.22	.30	.29	.37	2.21	2.24	2.38
Agricultural, biologcl, exc health	.11	.10	.07	.00	.00	.00	.10	.11	.12
Chemical technicians	.15	.14	.16	.00	.00	.00	.30	.31	.34
Drafters	.95	.80	.95	.22	.19	.24	.69	.62	.67
Electrical and electronic	.05	.07	.10	.05	.06	.11	.43	.48	.53
Industrial engineering	.00	.00	.00	.00	.00	.00	.09	.11	.12
Mechanical engineering	.00	.00	.00	.00	.00	.00	.06	.07	.07
Surveyors	1.31	1.06	.85	.02	.02	.01	.00	.00	.00
Other engineering, science technicians	.80	.81	1.08	.02	.02	.02	.53	.54	.54
Medical workers, exc technicians	.01	.01	.01	.00	.00	.00	.08	.07	.07
Physicians and osteopaths	.00	.00	.00	.00	.00	.00	.01	.01	.01
Registered nurses	.01	.01	.01	.00	.00	.00	.06	.05	.05
Health technologists, technicians	.00	.00	.00	.00	.00	.00	.02	.03	.03
Other health technicians	.00	.00	.00	.00	.00	.00	.02	.03	.02
Technicians, except health	.20	.25	.26	.02	.02	.02	.06	.07	.09
Airplane pilots	.02	.03	.03	.01	.00	.00	.02	.02	.02
Radio operators	.08	.09	.07	.00	.00	.00	.00	.00	.00
Tool programmers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.02
Other technicians except health	.10	.13	.16	.01	.01	.02	.02	.03	.04
Computer specialists	.15	.19	.19	.01	.02	.02	.50	.66	.65
Computer programmers	.11	.12	.12	.01	.01	.02	.31	.36	.35
Computer systems analysts	.04	.05	.06	.00	.00	.00	.17	.25	.26
Other computer specialists	.01	.02	.01	.00	.00	.00	.03	.05	.04
Social scientists	.03	.04	.04	.00	.00	.00	.13	.21	.22
Economists	.02	.03	.03	.00	.00	.00	.12	.20	.22
Urban and regional planners	.01	.01	.01	.00	.00	.00	.00	.00	.00
Teachers	.00	.00	.00	.00	.00	.00	.05	.05	.03
Adult education	.00	.00	.00	.00	.00	.00	.04	.04	.03
Writers, artists, entertainers	.33	.40	.42	.11	.15	.17	1.21	1.43	1.37
Authors	.00	.00	.00	.00	.00	.00	.04	.04	.04
Designers	.22	.27	.28	.09	.11	.12	.30	.36	.31
Editors and reporters	.00	.00	.00	.00	.00	.00	.48	.57	.62
Painters and sculptors	.03	.04	.06	.01	.02	.03	.14	.17	.11
Photographers	.03	.03	.02	.00	.00	.00	.09	.09	.11
Public relations specialists	.04	.05	.05	.01	.02	.02	.08	.10	.09
Other writers, artists, entertainers	.01	.02	.01	.00	.00	.00	.08	.10	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex building			Special trade contractors			Manufactur- ing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	.97	1.08	.95	.26	.31	.34	1.67	1.88	1.63
Accountants	.57	.67	.67	.21	.25	.28	.86	.97	.93
Architects	.07	.06	.08	.01	.01	.02	.01	.01	.01
Foresters and conservationists	.05	.04	.01	.00	.00	.00	.02	.02	.02
Lawyers	.07	.09	.02	.00	.00	.00	.05	.08	.05
Librarians	.01	.01	.01	.00	.00	.00	.02	.02	.01
Operations and systems research	.03	.04	.04	.00	.00	.00	.24	.33	.29
Personnel, labor relations wkrs	.15	.16	.11	.04	.04	.03	.35	.37	.26
Other research workers	.03	.03	.02	.00	.00	.00	.11	.09	.06
Managers, officials, proprietors	7.53	9.64	10.78	8.17	9.14	7.24	6.04	7.00	7.11
Buyers, sales, loan managers	.56	.56	.81	.26	.28	.47	1.26	1.24	1.39
Bank, financial managers	.04	.04	.04	.03	.03	.03	.13	.12	.10
Credit managers	.00	.00	.00	.01	.01	.00	.06	.04	.03
Buyers, shippers, farm products	.00	.00	.00	.00	.00	.00	.02	.02	.02
Purchasing agents, buyers, other	.49	.47	.72	.16	.16	.28	.50	.46	.51
Sales manager, exc retail trade	.03	.04	.05	.07	.08	.16	.55	.61	.73
Administrators, public inspectors	.27	.33	.30	.00	.00	.00	.00	.00	.00
Officials, administrators, public	.27	.33	.30	.00	.00	.00	.00	.00	.00
Other managers, officials, proprts	6.70	8.76	9.68	7.91	8.86	6.77	4.77	5.76	5.71
Mgrs, superintendents, building	.02	.02	.04	.00	.00	.00	.00	.00	.01
Office managers, other	.31	.35	.39	.30	.33	.47	.27	.29	.32
Officers, pilots, pursers, ship	.10	.11	.17	.00	.00	.00	.00	.00	.00
Other managers, administrators	6.27	8.27	9.09	7.61	8.52	6.30	4.48	5.46	5.38
Sales workers	.13	.16	.21	.45	.53	.97	2.40	2.40	2.54
Advertising agents, sales worker	.00	.00	.00	.00	.00	.00	.11	.15	.18
Newspaper carriers and vendors	.00	.00	.00	.00	.00	.00	.29	.25	.28
Other sales workers	.13	.15	.21	.45	.53	.97	2.00	2.01	2.08
Clerical workers	6.77	6.94	7.58	5.63	5.88	5.99	12.27	12.06	11.91
Stenographers, typists, secretaries	2.21	2.11	2.37	1.83	1.83	1.97	3.58	3.51	3.86
Legal secretaries	.01	.01	.02	.00	.00	.00	.01	.01	.02
Other secretaries	1.38	1.47	1.75	1.64	1.66	1.79	2.58	2.69	3.14
Stenographers	.19	.10	.03	.02	.01	.00	.10	.05	.02
Typists	.63	.53	.58	.17	.16	.18	.88	.75	.68
Office machine operators	.29	.34	.29	.05	.05	.06	.88	.97	.70
Bookkeeping and billing	.02	.01	.01	.01	.01	.01	.06	.03	.02
Calculating	.01	.01	.01	.00	.00	.00	.05	.03	.02
Computer and peripheral equip	.08	.17	.13	.01	.02	.04	.23	.50	.42
Duplicating	.02	.02	.02	.00	.00	.00	.03	.03	.02
Keypunch	.14	.11	.10	.02	.02	.01	.42	.32	.18
Tabulating	.00	.00	.00	.00	.00	.00	.02	.01	.00
Other office machine operators	.02	.02	.01	.00	.00	.00	.07	.07	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex building			Special trade contractors			Manufactur- ing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	4.27	4.49	4.92	3.75	4.00	3.96	7.81	7.59	7.35
Billing clerks	.03	.04	.05	.04	.05	.08	.18	.20	.25
Bookkeepers	1.06	1.03	.75	1.65	1.62	1.36	1.32	1.30	1.26
Cashiers	.49	.50	.83	.01	.02	.03	.06	.06	.07
Clerical supervisors, other	.10	.11	.11	.02	.03	.03	.13	.15	.14
Collectors, bill and account	.00	.00	.00	.01	.01	.01	.01	.01	.01
Counter clerks,exc food	.01	.02	.02	.02	.02	.04	.24	.25	.28
Dispatchers,starters,vehicle	.07	.08	.11	.03	.03	.05	.04	.04	.04
Estimators,investigators,other	.47	.60	.50	1.11	1.31	1.20	.24	.27	.19
Expeditors,production controls	.12	.15	.21	.06	.08	.14	.73	.76	.83
File clerks	.12	.10	.12	.04	.03	.04	.24	.20	.20
Library attendants, assistants	.01	.01	.01	.00	.00	.00	.02	.02	.01
Mail handlers,exc post office	.05	.05	.06	.01	.01	.02	.18	.17	.15
Messengers and office helpers	.02	.02	.01	.02	.02	.02	.05	.05	.03
Payroll,timekeeping clerks	.39	.44	.42	.15	.17	.19	.40	.43	.36
Proofreaders	.00	.00	.00	.00	.00	.00	.14	.16	.19
Real estate appraisers	.12	.14	.20	.00	.00	.00	.00	.00	.00
Receptionists	.10	.10	.10	.11	.11	.11	.20	.18	.13
Shipping and receiving clerks	.03	.03	.04	.05	.05	.06	1.18	1.08	1.10
Statistical clerks	.19	.21	.26	.03	.03	.04	.32	.34	.33
Stock clerks and store keepers	.27	.26	.35	.11	.11	.15	.90	.76	.67
Telephone operators	.05	.03	.04	.03	.02	.02	.14	.09	.06
Ticket,station, express agents	.01	.01	.01	.00	.00	.00	.00	.00	.00
Weighers	.10	.11	.16	.00	.00	.00	.15	.14	.10
Misc clerical workers	.44	.46	.57	.27	.29	.38	.92	.94	.95
Crafts and kindred workers	33.73	34.30	35.35	67.06	66.04	68.14	19.49	19.62	20.30
Construction crafts workers	21.90	21.73	23.36	56.62	54.98	55.34	2.47	2.39	2.37
Carpenters and apprentices	2.26	2.46	2.62	12.76	12.73	11.65	.58	.62	.59
Brick,stonemasons, apprentices	.27	.29	.36	4.87	4.37	3.95	.09	.07	.04
Bulldozer operators	2.48	2.73	3.31	.54	.60	.93	.10	.10	.12
Cement and concrete finishers	.97	1.05	1.06	1.49	1.47	1.70	.01	.02	.02
Electricians and apprentices	.56	.61	.64	8.58	9.05	10.25	.79	.79	.81
Excavating,grading mach operatr	12.86	12.15	12.66	1.49	1.38	1.84	.07	.06	.05
Floor layers, exc tile setters	.01	.01	.01	.62	.43	.38	.01	.01	.01
Painters and apprentices	.50	.48	.98	10.99	9.91	9.10	.26	.25	.22
Paperhangers	.00	.00	.00	.41	.62	.63	.00	.00	.00
Plasterers and apprentices	.03	.02	.01	1.02	.73	.59	.00	.00	.00
Plumbers,pipefitters,aprentices	1.40	1.44	1.27	8.67	7.98	7.73	.40	.37	.40
Roofers and slaters	.01	.01	.01	2.70	3.63	3.91	.00	.01	.01
Structural metal craft workers	.53	.45	.41	1.44	1.23	1.63	.12	.10	.09
Tile setters	.03	.03	.04	1.04	.84	1.05	.01	.00	.01
Blue collar worker supervisors	4.16	4.44	3.45	2.00	2.09	2.15	3.97	4.27	4.29
Metalworky craft wrkrs,exc meca	.34	.37	.43	2.71	2.47	3.19	4.94	4.79	4.94
Blacksmiths	.01	.01	.00	.01	.01	.01	.02	.01	.00
Boilermakers	.07	.07	.07	.14	.13	.16	.09	.09	.11
Heat treaters, annealers	.00	.00	.00	.00	.00	.00	.12	.11	.08
Forge and hammer operators	.01	.01	.01	.00	.00	.00	.09	.09	.09
Job and die setters, metal	.00	.00	.00	.00	.00	.00	.51	.47	.52
Machinists and apprentices	.14	.17	.26	.08	.08	.13	1.88	1.97	2.01
Millwrights	.06	.08	.07	.14	.16	.20	.36	.39	.41
Molders, metal and apprentices	.00	.00	.00	.00	.00	.00	.28	.26	.26
Pattern and mcldmakers	.01	.01	.01	.01	.01	.01	.20	.15	.15
Rollers and finishers,metal	.00	.00	.00	.00	.00	.00	.12	.11	.10
Sheetmetal workers, apprentices	.03	.02	.01	2.33	2.08	2.69	.40	.34	.35
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.88	.80	.86
Mechanics,repairers,installers	3.29	3.78	4.56	3.11	3.77	4.11	3.58	3.96	4.83
Air cond, heating, refig meca	.03	.03	.03	1.69	2.22	2.28	.10	.12	.12
Aircraft mechanics	.00	.00	.00	.00	.00	.00	.19	.18	.19
Auto body repairers	.02	.02	.02	.00	.00	.00	.02	.02	.01
Auto mechanics and apprentices	1.13	1.04	.96	.15	.13	.11	.40	.36	.39
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.06	.08	.13
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.02
Heavy equip mech, incl diesel	1.78	2.31	3.00	.83	.96	1.16	2.17	2.63	3.38
Household appliance mechanics	.23	.26	.43	.23	.25	.30	.05	.06	.06
Loom fixers	.00	.00	.00	.00	.00	.00	.09	.07	.06
Office machine repairers	.00	.00	.00	.00	.00	.00	.04	.03	.04
Radio, television repairers	.04	.03	.03	.04	.03	.02	.08	.06	.11
Railroad, car shop repairers	.00	.00	.00	.00	.00	.00	.02	.02	.03
Other mechanics and apprentices	.06	.08	.10	.16	.18	.24	.35	.34	.29

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex building			Special trade contractors			Manufacturing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Printing trade crafts workers	.08	.08	.06	.00	.00	.00	1.78	1.80	1.56
Bookbinders	.00	.00	.00	.00	.00	.00	.15	.12	.13
Compositors and typesetters	.03	.03	.01	.00	.00	.00	.77	.77	.54
Electrotypers and stereotypers	.00	.00	.00	.00	.00	.00	.03	.01	.00
Engravers exc photoengravers	.02	.02	.02	.00	.00	.00	.04	.04	.03
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.15	.17	.21
Press,plate printers,apprentices	.02	.02	.03	.00	.00	.00	.63	.70	.65
Transport,public util craft wkrs	.68	.73	.48	.49	.48	.47	.18	.16	.13
Elec pwr line instaler,repairer	.57	.60	.39	.31	.32	.33	.01	.01	.01
Locomotive engineers	.00	.00	.00	.00	.00	.00	.01	.02	.02
Power station operators	.01	.01	.01	.00	.00	.00	.02	.02	.02
Telephone installers,repairers	.05	.05	.05	.17	.15	.12	.14	.12	.09
Telephone line instalr,splicers	.05	.06	.03	.01	.02	.01	.00	.00	.00
Other crafts, kindred workers	3.30	3.17	3.02	2.14	2.25	2.88	2.58	2.26	2.18
Bakers	.00	.00	.00	.00	.00	.00	.27	.21	.15
Cabinetmakers	.01	.01	.01	.07	.07	.05	.22	.25	.26
Carpet installers	.00	.00	.00	1.03	1.17	1.36	.01	.01	.02
Crane,derrick,hoist operator	.97	.82	.74	.33	.28	.42	.56	.46	.58
Decorators, window dressers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Dental laboratory technicians	.00	.00	.00	.00	.00	.00	.01	.01	.02
Furniture and wood finishers	.00	.00	.00	.01	.01	.01	.07	.06	.04
Glaziers	.00	.00	.00	.26	.30	.58	.02	.02	.02
Inspectors, lcg and lumber	.00	.00	.00	.00	.00	.00	.07	.08	.09
Inspectors, other	1.87	1.89	1.82	.05	.05	.05	.12	.13	.12
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.06	.06	.09
Millers, grain, flour, feed	.00	.00	.00	.00	.00	.00	.04	.05	.05
Opticians,lens grinder,polisher	.00	.00	.00	.00	.00	.00	.05	.07	.07
Shipfitters	.00	.00	.00	.00	.00	.00	.05	.05	.04
Shoe repairers	.00	.00	.00	.00	.00	.00	.04	.01	.01
Sign painters and letterers	.07	.08	.12	.00	.00	.00	.02	.01	.00
Stationary engineers	.17	.11	.03	.07	.05	.01	.26	.19	.11
Stone cutters, stone carvers	.00	.00	.00	.01	.01	.01	.02	.03	.02
Tailors	.00	.00	.00	.00	.00	.00	.19	.17	.16
Upholsterers	.00	.00	.00	.00	.00	.00	.17	.12	.12
Other crafts workers	.21	.24	.31	.32	.31	.38	.31	.26	.19
Operatives	13.12	12.75	10.90	6.97	8.57	9.85	42.97	42.34	43.07
Operatives,except transport	3.84	4.21	4.31	5.43	7.19	8.52	39.56	38.95	39.28
Semiskilled metalworking	1.20	1.52	2.13	1.43	1.63	2.67	5.84	5.55	5.61
Drill press operatives	.01	.01	.01	.01	.01	.01	.38	.30	.25
Furnace tendrs,smelters,pourers	.00	.00	.00	.00	.00	.00	.38	.37	.36
Grinding machine operatives	.00	.00	.00	.01	.01	.02	.71	.60	.51
Heaters, metal	.00	.00	.00	.00	.00	.00	.04	.03	.02
Lathe,milling mach operatives	.00	.00	.00	.04	.03	.04	.76	.58	.57
Metal platers	.00	.00	.00	.00	.00	.00	.17	.18	.16
Other precision mach operators	.02	.02	.02	.01	.01	.01	.38	.32	.35
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.91	.82	.82
Solderers	.00	.00	.00	.01	.01	.02	.21	.17	.09
Welders and flamecutters	1.18	1.50	2.10	1.36	1.57	2.58	1.92	2.17	2.49
Semiskilled textile operatives	.00	.00	.00	.00	.00	.00	2.23	1.86	1.50
Carding,lapping combing oprs	.00	.00	.00	.00	.00	.00	.09	.07	.03
Knitters,loopers, and toppers	.00	.00	.00	.00	.00	.00	.18	.14	.11
Spinners, twisters, winders	.00	.00	.00	.00	.00	.00	.76	.65	.57
Weavers	.00	.00	.00	.00	.00	.00	.23	.18	.12
Other textile operatives	.00	.00	.00	.00	.00	.00	.97	.81	.67
Semiskilled packing, inspecting	.00	.00	.00	.00	.00	.00	6.26	6.17	6.66
Checkers, examiners, mfy	.00	.00	.00	.00	.00	.00	3.51	3.57	3.85
Graders and scrtrers, mfy	.00	.00	.00	.00	.00	.00	.23	.22	.22
Packer,wrapper,exc meat,produce	.00	.00	.00	.00	.00	.00	2.51	2.38	2.60

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex building			Special trade contractors			Manufactur- ing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	2.63	2.69	2.18	4.00	5.55	5.86	25.22	25.38	25.50
Asbestos,insulation workers	.03	.05	.04	.85	1.28	1.54	.03	.04	.04
Assemblers	.03	.04	.05	.08	.10	.18	4.67	5.46	6.78
Blasters	.09	.10	.10	.01	.01	.01	.01	.00	.00
Bottling,canning operatives	.00	.00	.00	.00	.00	.00	.29	.28	.25
Surveyors' helpers	.22	.20	.18	.01	.01	.01	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.33	.23	.20
Cutting operatives, other	.02	.02	.03	.05	.06	.10	1.07	1.09	1.10
Drillers, earth	.25	.29	.35	.71	.64	.43	.05	.05	.06
Dry wall installers, lathers	.02	.04	.04	1.67	2.81	2.92	.00	.00	.00
Dyers	.00	.00	.00	.00	.00	.00	.14	.13	.15
Filer,polisher,sander,buffer	.00	.00	.00	.03	.03	.05	.61	.57	.47
Garage wkr, gas station atten	.06	.05	.06	.00	.00	.00	.02	.01	.01
Laundry,dry cleang oprs,other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Meat cutters and butchers	.00	.00	.00	.00	.00	.00	.45	.40	.41
Mixing operatives	.01	.01	.02	.01	.01	.03	.37	.36	.33
Oilers,greasers,exc automobiles	.41	.37	.17	.06	.05	.03	.14	.13	.12
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.77	.70	.73
Photographic process workers	.04	.04	.04	.01	.01	.01	.11	.12	.13
Riveters and fasteners	.01	.01	.02	.01	.01	.02	.14	.14	.14
Sailors and deckhands	.15	.06	.00	.00	.00	.00	.00	.00	.00
Sawyers	.06	.07	.05	.02	.02	.02	.55	.59	.62
Sewers and stitchers	.00	.00	.00	.00	.00	.00	4.55	3.83	4.25
Shoemaking machine operatives	.00	.00	.00	.00	.00	.00	.34	.24	.13
Furnace tendr,stokr,exc metal	.05	.03	.02	.01	.01	.01	.28	.17	.15
Winding operatives, other	.01	.01	.02	.02	.02	.04	.33	.34	.40
Miscellaneous machine operatves	.31	.33	.21	.18	.18	.15	6.08	6.38	5.73
Other operatives,exc transport	.88	.99	.77	.28	.31	.33	3.88	4.11	3.29
Transport equipment operatives	9.28	8.54	6.59	1.54	1.39	1.33	3.41	3.39	3.79
Boat operators	.03	.04	.04	.00	.00	.00	.00	.00	.00
Delivery and route workers	.10	.10	.09	.14	.12	.16	.79	.62	.58
Fork lift,tow motor operatives	.12	.16	.20	.09	.12	.19	1.07	1.26	1.37
Rail vehicle operators, other	.01	.01	.01	.01	.01	.01	.01	.01	.01
Railroad brake operators	.00	.00	.00	.00	.00	.00	.01	.02	.03
Railroad switch operators	.00	.00	.00	.00	.00	.00	.02	.02	.03
Taxicab drivers, chauffeurs	.07	.06	.02	.01	.01	.01	.06	.05	.03
Truck drivers	8.95	8.18	6.23	1.29	1.13	.96	1.44	1.40	1.74
Service workers	1.67	1.47	1.30	.28	.28	.38	2.14	1.86	1.41
Cleaning service workers	.90	.80	.61	.23	.24	.34	1.41	1.23	.87
Bldg interior cleaners, other	.09	.10	.12	.07	.07	.09	.24	.22	.16
Janitors and sextons	.81	.70	.49	.16	.17	.25	1.17	1.01	.71
Food service workers	.06	.05	.03	.02	.01	.01	.16	.12	.12
Cooks,exc private households	.03	.03	.02	.00	.00	.00	.06	.05	.05
Dishwashers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Food counter,fountain workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Waiters	.02	.01	.01	.01	.01	.01	.02	.01	.01
Other food serv wkrs,exc privt	.00	.00	.00	.00	.00	.00	.04	.03	.02
Health service workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Nursing aides and orderlies	.00	.00	.00	.00	.00	.00	.01	.01	.01
Personal service workers	.01	.01	.01	.01	.01	.01	.06	.05	.04
Attendants,personal serv,other	.00	.00	.00	.00	.00	.00	.02	.01	.01
Elevator operators	.01	.01	.01	.01	.01	.01	.03	.03	.02
Protective service workers	.70	.62	.65	.03	.02	.01	.50	.46	.37
Crossing guards,bridgetenders	.22	.18	.23	.00	.00	.00	.00	.00	.00
Firefighters	.01	.01	.01	.00	.00	.00	.02	.01	.01
Guards	.43	.42	.41	.02	.02	.01	.48	.44	.35
Police and detectives	.05	.02	.00	.00	.00	.00	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	General contractors ex building			Special trade contractors			Manufactur- ing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	26.90	25.92	24.84	10.18	8.29	5.94	5.26	4.79	4.02
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.01	.01	.01
Carpenter helpers	.56	.51	.55	.89	.68	.60	.06	.06	.09
Constr labr,exc carpenter helpr	25.05	23.99	22.71	8.80	7.14	4.88	.19	.15	.12
Freight and material handlers	.32	.35	.42	.31	.28	.25	2.08	1.97	1.86
Garbage collectors	.04	.04	.07	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.79	.87	.94	.06	.06	.07	.05	.05	.05
Timbercutting, logging workers	.01	.02	.02	.00	.00	.00	.40	.41	.26
Stock handlers	.02	.02	.03	.04	.04	.05	.50	.49	.33
Teamsters	.01	.01	.01	.00	.00	.00	.03	.02	.01
Vehicle washers,equip cleaners	.05	.05	.05	.02	.03	.03	.32	.28	.16
Warehouse labcrers, other	.05	.04	.03	.06	.06	.06	.18	.16	.14
Other laborers	.01	.01	.01	.00	.00	.00	1.45	1.18	.98

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Durable goods			Ordinance			Lumber and wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	11.03	11.09	10.51	26.04	26.59	24.79	2.09	2.29	2.68
Engineers, technical	4.43	3.95	3.74	12.98	12.01	10.99	.34	.33	.41
Aeronautical	.46	.38	.35	1.33	1.40	1.41	.00	.00	.00
Chemical	.07	.06	.05	.23	.22	.22	.01	.00	.00
Civil	.09	.06	.05	.31	.22	.17	.04	.03	.05
Electrical	1.32	1.16	1.05	3.48	3.18	2.61	.05	.06	.07
Industrial	.76	.78	.81	1.78	1.78	1.53	.11	.11	.12
Mechanical	1.01	.90	.85	3.39	3.08	3.12	.05	.05	.09
Metallurgical	.11	.10	.10	.11	.11	.10	.00	.00	.00
Sales	.14	.10	.07	.02	.01	.00	.02	.01	.02
Other engineers	.48	.41	.42	2.33	2.01	1.83	.06	.06	.05
Life and physical scientists	.26	.25	.23	.71	.80	.99	.03	.03	.02
Atmospheric and space	.00	.01	.01	.04	.07	.10	.00	.00	.00
Biological	.01	.01	.01	.02	.03	.03	.00	.00	.00
Chemists	.20	.19	.16	.31	.34	.49	.03	.03	.02
Marine	.00	.00	.00	.01	.02	.04	.00	.00	.00
Physicists and astronomers	.05	.04	.04	.32	.32	.31	.00	.00	.00
Other life, physical scientists	.00	.00	.00	.02	.02	.02	.00	.00	.00
Mathematical specialists	.04	.04	.04	.27	.27	.28	.01	.01	.00
Mathematicians	.01	.01	.01	.12	.11	.06	.00	.00	.00
Statisticians	.03	.03	.03	.15	.16	.22	.01	.00	.00
Engineering, science technicians	2.66	2.61	2.67	4.44	4.68	5.06	.34	.34	.44
Agricultural, biologcl, exc health	.00	.00	.01	.04	.05	.10	.00	.00	.00
Chemical technicians	.07	.07	.07	.12	.15	.24	.01	.01	.01
Drafters	1.07	.93	.97	.97	.81	.81	.19	.18	.25
Electrical and electronic	.72	.79	.84	1.44	1.63	1.81	.02	.02	.02
Industrial engineering	.11	.14	.14	.17	.23	.25	.01	.02	.02
Mathematical technicians	.00	.00	.00	.03	.03	.05	.00	.00	.00
Mechanical engineering	.09	.10	.11	.16	.19	.23	.00	.00	.00
Surveyors	.00	.00	.00	.01	.01	.01	.02	.02	.02
Other engineering, science techn	.59	.58	.53	1.50	1.58	1.55	.09	.09	.13
Medical workers, exc technicians	.08	.07	.06	.12	.09	.03	.01	.01	.01
Physicians and osteopaths	.01	.01	.01	.01	.01	.00	.00	.00	.00
Registered nurses	.07	.06	.05	.11	.08	.03	.01	.01	.01
Health technolgsts, technicians	.02	.04	.04	.03	.04	.03	.00	.00	.00
Other health technicians	.02	.04	.03	.03	.04	.03	.00	.00	.00
Technicians, except health	.08	.10	.11	.23	.32	.45	.03	.04	.06
Airplane pilots	.02	.03	.03	.02	.04	.06	.02	.03	.04
Radio operators	.01	.01	.00	.03	.03	.02	.00	.01	.01
Tool programers, numerical	.02	.02	.03	.02	.03	.05	.00	.00	.00
Other technicians except health	.03	.04	.05	.15	.22	.32	.01	.01	.01
Computer specialists	.69	.88	.86	1.81	2.38	2.28	.08	.10	.10
Computer programers	.42	.47	.45	1.09	1.24	1.13	.05	.06	.06
Computer systems analysts	.23	.34	.35	.61	.93	.99	.03	.04	.05
Other computer specialists	.04	.07	.05	.11	.21	.16	.00	.00	.00
Social scientists	.15	.24	.28	.25	.44	.58	.03	.05	.05
Economists	.14	.24	.28	.23	.42	.58	.03	.05	.05
Psychologists	.00	.01	.00	.01	.02	.00	.00	.00	.00
Teachers	.05	.05	.04	.11	.09	.02	.00	.00	.00
Adult education	.05	.05	.04	.11	.09	.02	.00	.00	.00
Writers, artists, entertainers	.71	.80	.66	1.52	1.59	1.02	.11	.13	.16
Authors	.05	.05	.04	.13	.12	.04	.00	.00	.00
Designers	.32	.38	.32	.37	.40	.34	.06	.07	.07
Editors and reporters	.05	.05	.05	.15	.15	.12	.00	.00	.00
Painters and sculptors	.07	.07	.05	.22	.25	.14	.01	.01	.01
Photographers	.04	.03	.03	.16	.14	.10	.01	.01	.01
Public relations specialists	.06	.08	.07	.06	.07	.03	.03	.04	.06
Other writers, artists, entertain	.12	.13	.11	.43	.47	.25	.01	.00	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Durable goods			Ordnance			Lumber and wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.86	2.06	1.79	3.57	3.88	3.07	1.11	1.27	1.42
Accountants	.96	1.04	1.01	1.36	1.46	1.57	.41	.50	.65
Architects	.02	.01	.01	.03	.02	.02	.02	.01	.01
Foresters and conservationists	.03	.03	.02	.00	.00	.00	.45	.48	.48
Lawyers	.05	.07	.04	.09	.11	.02	.02	.04	.06
Librarians	.02	.02	.01	.09	.08	.06	.00	.00	.01
Operations and systems research	.32	.43	.38	1.00	1.27	.85	.04	.05	.05
Personnel, labor relations wkr	.39	.39	.27	.67	.66	.42	.15	.16	.14
Other research workers	.09	.07	.06	.33	.25	.12	.03	.02	.03
Recreation workers	.00	.00	.00	.01	.01	.00	.00	.00	.00
Managers, officials, proprietors	5.91	6.77	6.69	5.82	6.26	5.13	6.47	8.09	9.12
Buyers, sales, loan managers	1.24	1.24	1.50	1.15	1.05	1.11	.74	.65	.59
Bank, financial managers	.13	.13	.12	.23	.24	.26	.05	.04	.02
Credit managers	.05	.03	.03	.01	.00	.00	.03	.02	.02
Purchasing agents, buyers, other	.61	.56	.66	.84	.72	.75	.42	.34	.27
Sales manager, exc retail trade	.44	.51	.70	.08	.08	.10	.25	.25	.27
Other managers, officials, proprts	4.68	5.53	5.19	4.67	5.22	4.01	5.73	7.44	8.53
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.01	.01	.01
Office managers, other	.23	.26	.30	.09	.09	.10	.30	.29	.29
Other managers, administrators	4.43	5.26	4.87	4.57	5.11	3.89	5.42	7.13	8.23
Sales workers	1.47	1.45	1.40	.22	.18	.08	1.02	1.13	1.62
Advertising agents, sales worker	.01	.02	.03	.01	.01	.01	.01	.01	.02
Other sales wcrkers	1.45	1.44	1.37	.22	.17	.06	1.01	1.12	1.60
Clerical workers	12.24	11.98	11.80	15.67	15.50	15.13	5.10	5.09	5.26
Stenographers, typists, secretaries	3.65	3.51	3.74	5.50	4.97	4.92	1.43	1.49	1.77
Legal secretaries	.01	.01	.02	.04	.03	.04	.00	.00	.00
Other secretaries	2.68	2.74	3.10	3.75	3.60	3.59	1.21	1.30	1.56
Stenographers	.11	.06	.03	.25	.11	.02	.01	.01	.00
Typists	.85	.70	.59	1.47	1.23	1.27	.21	.18	.21
Office machine operators	.89	1.02	.79	1.28	1.78	1.51	.22	.20	.16
Bookkeeping and billing	.05	.03	.03	.02	.01	.03	.02	.01	.00
Calculating	.03	.02	.02	.02	.02	.04	.01	.01	.01
Computer and peripheral equip	.27	.56	.47	.55	1.16	.96	.05	.10	.10
Duplicating	.04	.03	.03	.08	.08	.10	.01	.01	.01
Keypunch	.44	.34	.21	.50	.42	.29	.11	.07	.03
Tabulating	.02	.01	.00	.02	.01	.00	.01	.00	.00
Other office machine operators	.05	.05	.03	.08	.08	.08	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Durable goods			Ordinance			Lumber and wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	7.70	7.45	7.27	8.88	8.75	8.70	3.46	3.40	3.33
Billing clerks	.16	.18	.24	.05	.06	.10	.08	.09	.11
Bookkeepers	1.15	1.14	1.09	.84	.82	.88	1.14	1.16	1.23
Cashiers	.04	.04	.04	.05	.04	.04	.01	.02	.02
Clerical supervisors, other	.13	.15	.15	.26	.30	.36	.03	.03	.03
Counter clerks,exc food	.19	.21	.24	.00	.00	.00	.07	.08	.09
Dispatchers, starters, vehicle	.04	.04	.05	.03	.03	.03	.01	.01	.01
Estimators, investigators, other	.29	.32	.25	.30	.34	.24	.13	.13	.12
Expeditors, production controls	.98	1.00	1.12	1.57	1.70	1.91	.14	.13	.11
File clerks	.25	.20	.20	.31	.27	.32	.03	.03	.03
Library attendants, assistants	.02	.02	.01	.05	.05	.03	.00	.00	.00
Mail handlers,exc post office	.11	.11	.11	.15	.13	.11	.03	.03	.02
Messengers and office helpers	.02	.02	.01	.04	.03	.03	.02	.02	.02
Payroll, timekeeping clerks	.42	.44	.33	.42	.44	.36	.18	.20	.23
Receptionists	.18	.17	.14	.13	.13	.16	.08	.06	.04
Shipping and receiving clerks	1.05	.94	.87	.42	.36	.29	.52	.50	.53
Statistical clerks	.36	.38	.38	.51	.55	.57	.38	.40	.40
Stock clerks and store keepers	1.12	.95	.89	1.49	1.26	1.20	.25	.17	.09
Telephone operators	.13	.08	.04	.20	.11	.04	.05	.04	.04
Weighers	.09	.08	.08	.35	.39	.62	.03	.03	.03
Misc clerical workers	.98	.99	1.03	1.71	1.74	1.44	.27	.27	.19
Crafts and kindred workers	21.96	21.44	21.84	16.87	16.74	17.42	15.85	17.04	20.91
Construction crafts workers	3.30	3.12	2.94	2.20	1.97	1.64	4.44	4.56	4.82
Carpenters and apprentices	.84	.89	.82	.58	.53	.39	2.26	2.37	2.24
Brick, stonemasons, apprentices	.14	.10	.06	.03	.03	.04	.02	.01	.01
Bulldozer operators	.13	.12	.14	.05	.04	.02	.94	.98	1.23
Cement and concrete finishers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Electricians and apprentices	1.01	.97	.94	.78	.74	.65	.40	.48	.83
Excavating, grading mach operatr	.10	.08	.06	.04	.03	.01	.51	.44	.26
Floor layers, exc tile setters	.02	.01	.02	.01	.00	.01	.02	.01	.01
Painters and apprentices	.37	.35	.31	.26	.24	.21	.18	.14	.08
Plumbers, pipefitters, apprentices	.46	.40	.40	.43	.36	.30	.10	.10	.15
Roofers and slaters	.01	.01	.01	.01	.00	.00	.01	.01	.02
Structural metal craft workers	.21	.16	.15	.03	.02	.02	.00	.00	.00
Tile setters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	3.87	4.04	3.75	4.19	4.26	3.82	3.56	4.15	5.25
Metalworkg craft wrkrs,exc mech	7.66	7.13	6.92	4.40	4.10	4.61	1.68	1.97	3.01
Blacksmiths	.03	.02	.01	.00	.00	.00	.01	.01	.00
Boilermakers	.12	.12	.15	.01	.01	.01	.01	.02	.03
Heat treaters, annealers	.20	.18	.14	.06	.06	.04	.00	.00	.00
Forge and hammer operators	.15	.14	.14	.04	.04	.05	.02	.02	.03
Job and die setters, metal	.85	.78	.83	.09	.09	.12	.02	.02	.02
Machinists and apprentices	2.74	2.75	2.53	2.44	2.39	2.87	.52	.65	1.09
Millwrights	.46	.49	.50	.38	.37	.30	.93	1.13	1.66
Molders, metal and apprentices	.49	.44	.43	.02	.03	.06	.00	.00	.00
Pattern and weldmakers	.33	.24	.21	.10	.08	.09	.10	.07	.08
Rollers and finishers, metal	.20	.18	.17	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.65	.54	.52	.39	.33	.35	.02	.02	.03
Tool and diemakers, apprentices	1.45	1.27	1.32	.86	.72	.73	.04	.05	.07
Mechanics, repairers, installers	3.81	4.18	5.30	4.93	5.44	6.64	1.76	1.97	2.60
Air cond, heating, refrig meca	.11	.14	.13	.14	.16	.14	.01	.01	.01
Aircraft mechanics	.33	.29	.31	.25	.23	.16	.00	.00	.00
Auto body repairers	.03	.02	.02	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.52	.48	.56	.25	.22	.26	.27	.21	.17
Data processing mach repairers	.09	.12	.20	.04	.06	.10	.00	.00	.00
Farm implement mechanics	.01	.01	.02	.01	.01	.01	.00	.00	.00
Heavy equip mech, incl diesel	2.03	2.50	3.37	3.04	3.54	4.40	1.39	1.67	2.36
Household appliance mechanics	.07	.07	.09	.02	.02	.05	.00	.00	.00
Office machine repairers	.07	.04	.05	.02	.02	.04	.00	.00	.00
Radio, television repairers	.14	.09	.17	.20	.13	.06	.00	.00	.00
Railroad, car shop repairers	.03	.03	.04	.02	.03	.06	.01	.01	.01
Other mechanics and apprentices	.39	.38	.32	.92	1.02	1.36	.08	.06	.04
Printing trade crafts workers	.21	.20	.15	.20	.15	.05	.05	.06	.09
Compositors and typesetters	.08	.07	.06	.08	.05	.01	.03	.04	.05
Engravers exc photoengravers	.04	.04	.03	.00	.00	.00	.01	.00	.00
Photoengravers, lithographers	.02	.01	.01	.02	.01	.00	.00	.01	.01
Press, plate printers, apprentices	.06	.07	.07	.09	.08	.03	.01	.02	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Durable goods			Ordnance			Lumber and wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport, public util craft wkr	.29	.25	.19	.11	.10	.06	.04	.05	.05
Elec pwr line instaler, repairer	.01	.01	.01	.01	.01	.00	.00	.00	.00
Locomotive engineers	.02	.02	.03	.02	.02	.01	.01	.02	.03
Power station operators	.02	.02	.01	.02	.02	.01	.03	.02	.01
Telephone installers, repairers	.24	.19	.14	.06	.05	.04	.01	.01	.00
Other crafts, kindred workers	2.83	2.53	2.59	.85	.71	.60	4.32	4.28	5.11
Cabinetmakers	.38	.41	.41	.01	.01	.00	.68	.73	.81
Carpet installers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Crane, derrick, hoist operator	.90	.71	.87	.28	.20	.16	.89	.83	1.17
Decorators, window dressers	.01	.01	.02	.00	.00	.00	.00	.01	.01
Dental laboratory technicians	.02	.02	.03	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.12	.11	.06	.00	.00	.00	.14	.11	.07
Glaziers	.03	.03	.03	.00	.00	.00	.10	.09	.08
Inspectors, lcg and lumber	.12	.13	.14	.00	.00	.00	2.15	2.21	2.66
Inspectors, other	.17	.18	.16	.17	.16	.11	.01	.01	.02
Jewelers and watchmakers	.11	.11	.15	.01	.01	.01	.00	.00	.00
Opticians, lens grinder, polisher	.09	.12	.12	.02	.02	.01	.00	.00	.00
Shipfitters	.09	.08	.06	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.02	.01	.00	.01	.01	.00	.00	.00	.00
Stationary engineers	.20	.13	.07	.26	.20	.13	.12	.09	.08
Stone cutters, stone carvers	.04	.04	.04	.00	.00	.00	.00	.00	.00
Tailors	.01	.01	.01	.01	.02	.04	.00	.00	.00
Upholsterers	.28	.20	.19	.01	.02	.05	.01	.01	.01
Other crafts workers	.24	.21	.20	.07	.07	.09	.23	.19	.19
Operatives	39.53	40.14	41.73	28.35	28.26	30.70	39.52	39.02	40.01
Operatives, except transport	36.68	37.12	38.28	26.43	26.52	29.18	31.72	30.73	30.46
Semiskilled metalworking	9.62	8.88	8.78	3.87	3.41	3.65	1.43	1.13	1.13
Drill press operatives	.63	.49	.40	.43	.32	.25	.11	.06	.04
Furnace tendrs, smeltrs, pourers	.64	.62	.57	.03	.04	.05	.01	.01	.01
Grinding machine operatives	1.20	.98	.81	.43	.37	.46	.14	.09	.08
Heaters, metal	.07	.05	.04	.01	.01	.00	.00	.00	.00
Lathe, milling mach operatives	1.25	.93	.90	.88	.64	.65	.54	.34	.19
Metal platers	.29	.29	.25	.17	.19	.22	.01	.01	.00
Other precision mach operators	.63	.52	.56	.26	.22	.32	.13	.08	.04
Punch, stamping press operatives	1.48	1.31	1.30	.28	.27	.39	.09	.06	.03
Solderers	.35	.28	.15	.24	.21	.11	.01	.01	.00
Welders and flamecutters	3.11	3.41	3.80	1.16	1.16	1.20	.40	.48	.74
Semiskilled packing, inspecting	5.47	5.25	5.11	6.69	6.30	6.43	1.81	1.96	2.59
Checkers, examiners, mfg	4.09	4.00	4.01	6.07	5.82	6.18	.62	.74	1.20
Graders and sorters, mfg	.11	.10	.07	.04	.03	.00	.45	.49	.56
Packer, wrapper, exc meat, prodce	1.28	1.16	1.03	.59	.46	.26	.74	.73	.83
Other operatives, exc transport	21.59	22.98	24.40	15.88	16.81	19.09	28.47	27.64	26.74
Asbestos, insulation workers	.03	.04	.03	.02	.02	.01	.01	.01	.01
Assemblers	7.39	8.36	10.01	7.16	8.06	9.70	2.10	2.33	3.16
Blasters	.01	.01	.01	.13	.09	.03	.01	.01	.01
Bottling, canning operatives	.01	.01	.01	.02	.03	.05	.00	.00	.00
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Cutting operatives, other	.85	.90	.97	.18	.19	.22	2.15	2.05	2.02
Drillers, earth	.09	.08	.09	.10	.10	.13	.00	.00	.00
Dyers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Filer, polisher, sander, buffer	.99	.91	.75	.39	.39	.43	1.32	.98	.58
Garage wkr, gas station atten	.01	.01	.01	.03	.02	.03	.02	.01	.01
Laundry, dry cleang oprs, other	.00	.00	.00	.05	.04	.02	.00	.00	.00
Meat cutters and butchers	.00	.00	.00	.01	.01	.00	.00	.00	.00
Mixing operatives	.19	.19	.18	.23	.23	.25	.11	.11	.09
Oilers, greasers, exc automobiles	.14	.13	.11	.13	.12	.08	.14	.15	.18
Painters, mfg articles	1.15	1.03	1.07	.59	.53	.73	.57	.42	.26
Photographic process workers	.11	.10	.10	.18	.16	.10	.01	.01	.01
Riveters and fasteners	.19	.18	.19	.05	.06	.11	.66	.58	.51
Sawyers	.89	.92	.94	.09	.07	.04	9.78	9.89	10.49
Sewers and stitchers	.34	.31	.43	.50	.42	.55	.06	.05	.05
Furnace tendr, stokr, exc metal	.26	.15	.10	.36	.21	.09	.75	.49	.45
Winding operatives, other	.44	.48	.60	.07	.06	.04	.05	.05	.03
Miscellaneous machine operatives	4.82	5.17	5.16	3.41	3.56	3.74	6.11	6.13	5.47
Other operatives, exc transport	3.69	4.00	3.65	2.19	2.45	2.74	4.59	4.35	3.39

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Durable goods			Ordnance			Lumber and wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport equipment operatives	2.84	3.02	3.45	1.92	1.74	1.53	7.80	8.29	9.55
Boat operators	.00	.00	.00	.02	.02	.00	.00	.00	.00
Bus drivers	.00	.00	.00	.03	.03	.00	.00	.00	.00
Delivery and route workers	.20	.18	.22	.07	.06	.05	.28	.28	.32
Fork lift,tow motor operatives	1.13	1.36	1.52	.89	.99	1.12	3.05	3.54	4.08
Rail vehicle operators, other	.02	.02	.01	.00	.00	.00	.01	.01	.01
Parking attendants	.00	.00	.01	.00	.00	.00	.00	.00	.00
Railroad brake operators	.02	.03	.04	.04	.06	.15	.02	.03	.03
Railroad switch operators	.04	.04	.04	.02	.02	.03	.01	.01	.00
Taxicab drivers, chauffeurs	.07	.06	.04	.06	.04	.00	.01	.01	.01
Truck drivers	1.37	1.34	1.57	.79	.53	.18	4.42	4.41	5.10
Service workers	2.04	1.81	1.42	2.85	2.66	2.69	1.75	1.51	1.25
Cleaning service workers	1.34	1.20	.97	1.25	1.15	1.13	.92	.69	.34
Bldg interior cleaners, other	.22	.20	.17	.09	.09	.11	.15	.12	.07
Janitors and sextons	1.12	1.00	.80	1.16	1.06	1.02	.77	.57	.27
Food service workers	.10	.08	.08	.13	.11	.10	.03	.03	.03
waiters' assistants	.00	.00	.00	.01	.01	.03	.00	.00	.00
Cooks,exc private households	.03	.02	.01	.04	.03	.01	.02	.02	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.02	.02	.02	.03	.03	.01	.00	.00	.00
Waiters	.02	.01	.01	.01	.01	.01	.00	.00	.00
Other food serv wkrs,exc privt	.03	.02	.03	.03	.02	.03	.01	.01	.01
Health service workers	.01	.01	.01	.02	.02	.03	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.01	.01	.02	.00	.00	.00
Practical nurses	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personal service workers	.03	.03	.02	.06	.06	.06	.01	.01	.01
Attendants, personal serv, other	.01	.01	.01	.04	.04	.04	.00	.00	.00
Elevator operators	.02	.01	.01	.01	.01	.01	.01	.01	.01
Housekeepers, exc private homes	.01	.01	.01	.01	.01	.01	.00	.00	.00
Protective service workers	.56	.49	.35	1.39	1.33	1.37	.78	.78	.87
Firefighters	.02	.02	.02	.12	.09	.08	.01	.01	.01
Guards	.53	.47	.33	1.23	1.20	1.29	.77	.76	.85
Police and detectives	.01	.01	.00	.05	.03	.00	.01	.00	.01
Laborers, except farm	5.83	5.32	4.62	4.18	3.79	4.07	28.21	25.83	19.15
Carpenter helpers	.09	.08	.13	.03	.02	.02	.31	.28	.41
Constr labr,exc carpenter helpr	.25	.20	.15	.09	.07	.07	.23	.16	.08
Freight and material handlers	1.97	1.91	1.90	1.52	1.43	1.64	9.60	8.89	7.75
Gardenrs,groundkeepers,exc farm	.05	.05	.05	.09	.10	.07	.14	.14	.12
Longshore workers, stevedores	.01	.01	.01	.02	.02	.00	.01	.02	.02
Timbercutting, logging workers	.69	.68	.42	.01	.01	.01	12.57	12.22	8.29
Stock handlers	.41	.43	.35	.23	.23	.20	.18	.15	.08
Teamsters	.04	.03	.01	.00	.00	.00	.71	.46	.15
Vehicle washers,equip cleaners	.24	.24	.18	.17	.19	.23	.09	.08	.05
Warehouse labcrers, other	.12	.10	.08	.16	.12	.07	.08	.07	.05
Other laborers	1.96	1.58	1.33	1.86	1.61	1.75	4.29	3.36	2.16

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Logging			Sawmill, planing and mill work			Misc wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.30	1.48	1.70	2.16	2.40	2.76	2.55	2.76	3.05
Engineers, technical	.18	.18	.22	.33	.33	.41	.51	.46	.51
Chemical	.01	.01	.01	.00	.00	.00	.02	.01	.01
Civil	.04	.02	.01	.03	.03	.06	.04	.04	.06
Electrical	.04	.05	.06	.05	.05	.06	.08	.09	.12
Industrial	.03	.05	.07	.11	.11	.12	.19	.17	.15
Mechanical	.01	.01	.01	.05	.06	.09	.08	.09	.13
Petroleum	.01	.01	.00	.00	.00	.00	.00	.00	.00
Sales	.01	.00	.00	.02	.02	.03	.02	.01	.00
Other engineers	.03	.04	.06	.07	.06	.05	.07	.06	.05
Life and physical scientists	.00	.00	.00	.03	.02	.01	.08	.08	.08
Chemists	.00	.00	.00	.02	.02	.01	.08	.08	.08
Mathematical specialists	.00	.00	.00	.01	.01	.00	.00	.00	.00
Engineering, science technicians	.06	.07	.09	.39	.39	.51	.44	.43	.45
Chemical technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Drafters	.02	.03	.06	.26	.25	.35	.14	.11	.09
Electrical and electronic	.01	.01	.01	.02	.02	.02	.05	.05	.02
Industrial engineering	.00	.00	.00	.01	.01	.01	.04	.05	.04
Surveyors	.01	.01	.01	.03	.03	.03	.00	.00	.00
Other engineering, science teca	.02	.02	.02	.07	.07	.09	.21	.23	.30
Medical workers, exc technicians	.01	.00	.00	.01	.01	.01	.01	.01	.02
Registered nurses	.01	.00	.00	.01	.01	.01	.01	.01	.02
Technicians, except health	.00	.00	.00	.03	.05	.07	.03	.05	.09
Airplane pilots	.00	.00	.00	.02	.04	.06	.01	.02	.02
Other technicians except health	.00	.00	.00	.00	.00	.00	.02	.03	.06
Computer specialists	.02	.03	.02	.08	.11	.11	.10	.13	.14
Computer programers	.02	.03	.02	.05	.06	.06	.06	.07	.07
Computer systems analysts	.00	.00	.00	.03	.04	.05	.04	.06	.07
Social scientists	.00	.00	.00	.05	.08	.08	.01	.01	.00
Economists	.00	.00	.00	.04	.07	.08	.01	.01	.00
Teachers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Adult education	.00	.00	.00	.00	.00	.00	.01	.01	.01
Writers, artists, entertainers	.01	.01	.00	.10	.13	.17	.23	.25	.24
Designers	.01	.01	.00	.05	.06	.07	.13	.14	.13
Painters and sculptors	.00	.00	.00	.00	.00	.00	.05	.04	.03
Photographers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Public relations specialists	.00	.00	.00	.04	.05	.08	.04	.06	.07
Other writers, artists, entertain	.00	.00	.00	.01	.01	.01	.01	.00	.00
Other professional and tecunical	1.03	1.19	1.37	1.12	1.27	1.40	1.15	1.32	1.52
Accountants	.10	.11	.13	.47	.59	.71	.51	.63	.81
Architects	.00	.00	.00	.03	.02	.01	.01	.01	.00
Foresters and conservationists	.90	1.04	1.20	.38	.38	.39	.25	.25	.28
Lawyers	.00	.00	.00	.02	.05	.06	.02	.06	.10
Operations and systems research	.00	.00	.00	.03	.04	.04	.08	.11	.10
Personnel, labor relations wkrs	.03	.05	.05	.15	.17	.14	.24	.25	.20
Other research workers	.00	.00	.00	.03	.02	.04	.04	.02	.03
Managers, officials, proprietors	6.52	9.45	12.11	6.04	7.24	8.15	7.82	9.48	9.94
Buyers, sales, loan managers	.33	.30	.26	.82	.72	.64	.85	.76	.65
Bank, financial managers	.01	.01	.00	.06	.05	.02	.05	.06	.05
Credit managers	.01	.00	.00	.04	.03	.04	.01	.01	.00
Purchasing agents, buyers, other	.30	.27	.24	.44	.36	.28	.44	.36	.26
Sales manager, exc retail trade	.02	.02	.02	.28	.29	.31	.34	.34	.34
Other managers, officials, proprts	6.19	9.15	11.85	5.22	6.51	7.52	6.98	8.72	9.29
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.01	.01	.01
Office managers, other	.07	.07	.06	.29	.29	.28	.54	.53	.45
Other managers, administrators	6.12	9.07	11.79	4.91	6.21	7.22	6.43	8.17	8.82

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Logging			Sawmill, planing and mill work			Misc wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	.22	.26	.28	1.05	1.22	1.69	1.64	1.71	2.25
Advertising agents,sales worker	.00	.00	.00	.01	.02	.03	.01	.01	.00
Other sales workers	.22	.26	.28	1.04	1.21	1.65	1.64	1.70	2.25
Clerical workers	1.27	1.48	1.67	5.61	5.68	5.65	6.95	6.81	6.42
Stenographrs,typists,secretaries	.30	.36	.37	1.54	1.66	1.95	2.08	2.09	2.15
Other secretaries	.27	.32	.32	1.31	1.45	1.71	1.73	1.80	1.90
Stenographers	.00	.00	.00	.02	.01	.01	.01	.00	.00
Typists	.03	.03	.05	.21	.20	.24	.34	.28	.25
Office machine operators	.06	.06	.04	.22	.19	.13	.34	.40	.31
Bookkeeping and billing	.01	.00	.00	.03	.01	.00	.04	.02	.00
Calculating	.01	.00	.00	.01	.01	.01	.01	.01	.00
Computer and peripheral equip	.01	.03	.04	.04	.07	.08	.11	.24	.20
Keypunch	.03	.02	.01	.13	.08	.03	.13	.09	.05
Tabulating	.00	.00	.00	.02	.01	.00	.00	.00	.00
Other office machine operators	.00	.00	.00	.00	.00	.00	.04	.04	.05
Other clerical workers	.92	1.06	1.25	3.84	3.84	3.57	4.54	4.32	3.96
Billing clerks	.02	.02	.02	.08	.08	.10	.15	.16	.22
Bookkeepers	.57	.65	.77	1.21	1.25	1.26	1.45	1.40	1.43
Cashiers	.01	.01	.01	.02	.02	.02	.01	.00	.00
Clerical supervisors, other	.00	.00	.00	.03	.03	.03	.05	.06	.07
Counter clerks,exc food	.03	.04	.07	.07	.08	.09	.11	.11	.13
Dispatchers,starters,vehicle	.01	.01	.01	.01	.01	.01	.02	.02	.02
Estimators,investigators,other	.03	.03	.03	.17	.18	.16	.08	.08	.07
Expediters,production controlrs	.02	.03	.03	.13	.12	.10	.26	.25	.19
File clerks	.00	.00	.00	.03	.03	.03	.05	.04	.05
Mail handlers,exc post office	.00	.00	.00	.03	.02	.02	.06	.06	.06
Messengers and office helpers	.00	.00	.00	.02	.02	.02	.03	.04	.04
Payroll,timekeeping clerks	.04	.06	.07	.19	.22	.25	.27	.29	.26
Receptionists	.00	.00	.00	.08	.07	.05	.13	.10	.05
Shipping and receiving clerks	.04	.05	.06	.54	.54	.52	.91	.85	.84
Statistical clerks	.04	.06	.08	.56	.60	.56	.13	.14	.15
Stock clerks and store keepers	.03	.02	.01	.27	.19	.09	.38	.28	.12
Telephone operators	.01	.01	.01	.06	.05	.04	.06	.04	.04
Weighers	.02	.02	.02	.03	.03	.03	.04	.04	.03
Misc clerical workers	.06	.07	.07	.30	.30	.21	.35	.36	.22
Crafts and kindred workers	10.38	10.68	12.30	17.14	18.80	22.23	16.73	17.73	22.57
Construction crafts workers	5.18	5.04	5.35	4.38	4.57	4.89	3.97	4.05	4.31
Carpenters and apprentices	.34	.41	.35	2.72	2.91	2.65	2.53	2.61	2.29
Brick,stonemasons, apprentices	.03	.02	.01	.02	.02	.01	.01	.01	.00
Bulldozer operators	2.59	2.70	3.58	.65	.64	.97	.37	.35	.50
Electricians and apprentices	.04	.05	.08	.50	.58	.88	.44	.58	1.13
Excavating,grading mach operatr	2.19	1.86	1.34	.16	.11	.08	.09	.07	.07
Floor layers, exc tile setters	.00	.00	.00	.03	.02	.01	.01	.00	.01
Painters and apprentices	.00	.00	.00	.15	.12	.07	.44	.34	.16
Plumbers,pipefitters,apprentices	.00	.00	.00	.13	.14	.18	.08	.08	.15
Roofers and slaters	.00	.00	.00	.02	.02	.03	.00	.00	.00
Tile setters	.00	.00	.00	.01	.01	.02	.01	.00	.00
Blue collar worker supervisors	1.50	1.73	1.67	3.75	4.45	5.17	4.86	5.61	7.65
Metalworky craft wrkrs,exc mech	.21	.29	.46	1.97	2.42	3.47	2.06	2.21	3.30
Blacksmiths	.00	.00	.00	.02	.01	.00	.00	.00	.00
Boilermakers	.00	.00	.00	.02	.02	.02	.02	.03	.06
Forge and hamrer operators	.01	.01	.01	.01	.01	.02	.06	.06	.07
Job and die setters, metal	.00	.00	.00	.01	.01	.01	.06	.05	.06
Machinists and apprentices	.09	.13	.24	.52	.66	.96	.95	1.13	1.94
Millwrights	.10	.14	.19	1.32	1.62	2.32	.46	.54	.78
Pattern and mcldmakers	.00	.00	.00	.05	.05	.07	.36	.22	.15
Rollers and finishers,metal	.00	.00	.00	.00	.00	.00	.01	.01	.01
Sheetmetal workers, apprentices	.00	.00	.00	.02	.02	.02	.03	.03	.05
Tool and diemakers, apprentices	.01	.01	.02	.02	.03	.05	.13	.14	.18

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Logging			Sawmill, planing and mill work			Misc wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	1.05	1.19	1.33	1.81	2.02	2.53	2.25	2.60	3.55
Air cond, heating, refrig meca	.00	.00	.00	.01	.01	.01	.01	.01	.02
Auto body repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.38	.34	.36	.25	.19	.16	.21	.15	.11
Heavy equip mech, incl diesel	.04	.82	.96	1.45	1.74	2.32	1.88	2.29	3.33
Household appliance mechanics	.00	.00	.00	.00	.00	.00	.02	.01	.01
Loom fixers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Radio, television repairers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Railroad, car shop repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.03	.03	.01	.08	.06	.04	.10	.09	.05
Printing trade crafts workers	.02	.02	.00	.00	.00	.00	.25	.30	.38
Compositors and typesetters	.01	.01	.00	.00	.00	.00	.16	.19	.20
Engravers exc photoengravers	.01	.00	.00	.00	.00	.00	.02	.02	.00
Photoengravers, lithograpners	.00	.00	.00	.00	.00	.00	.02	.02	.05
Press, plate printers, apprentices	.01	.01	.00	.00	.00	.00	.05	.07	.13
Transport, public util craft wkrs	.03	.03	.03	.05	.05	.04	.03	.06	.07
Locomotive engineers	.01	.01	.01	.01	.02	.03	.03	.05	.07
Power station operators	.00	.00	.00	.04	.04	.02	.00	.00	.00
Telephone installers, repairers	.02	.02	.02	.00	.00	.00	.01	.01	.01
Other crafts, kindred workers	2.39	2.38	3.46	5.18	5.29	6.13	3.32	2.91	3.31
Cabinetmakers	.02	.03	.03	.94	1.09	1.22	.44	.27	.17
Crane, derrick, hoist operator	1.87	1.86	2.93	.65	.58	.90	.74	.61	.85
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.01	.03	.06
Furniture and wood finishers	.00	.00	.00	.12	.09	.06	.32	.24	.15
Glaziers	.00	.00	.00	.15	.15	.12	.02	.03	.03
Inspectors, lcg and lumber	.48	.47	.49	3.10	3.21	3.67	.64	.74	1.24
Inspectors, other	.00	.00	.00	.01	.02	.02	.00	.00	.00
Stationary engineers	.01	.01	.01	.12	.10	.09	.18	.12	.08
Upholsterers	.00	.00	.00	.01	.01	.01	.02	.01	.01
Other crafts workers	.02	.01	.02	.06	.05	.04	.95	.85	.73
Operatives	15.27	16.08	18.26	42.21	42.07	41.38	53.04	52.11	49.62
Operatives, except transport	6.59	7.49	8.31	33.99	33.31	31.45	47.38	45.63	41.35
Semiskilled metalworking	.21	.21	.21	1.45	1.21	1.16	2.49	1.78	1.62
Drill press operatives	.00	.00	.00	.09	.05	.03	.26	.14	.08
Furnace tendrs, smeltrs, pourers	.00	.00	.00	.00	.00	.00	.02	.03	.05
Grinding machine operatives	.02	.01	.01	.17	.12	.11	.14	.09	.06
Lathe, milling mach operatives	.04	.03	.01	.52	.34	.19	1.08	.65	.29
Metal platers	.00	.00	.00	.00	.00	.00	.06	.03	.02
Other precision mach operators	.01	.00	.00	.13	.08	.04	.26	.17	.08
Punch, stamping press operatives	.01	.01	.01	.07	.05	.02	.24	.15	.08
Solderers	.01	.01	.00	.01	.01	.00	.03	.02	.01
Welders and flamecutters	.13	.15	.18	.47	.57	.78	.40	.51	.96
Semiskilled packing, inspecting	.23	.30	.39	1.37	1.57	1.64	4.69	4.87	6.53
Checkers, examiners, mfy	.10	.13	.17	.44	.55	.68	1.67	1.96	3.26
Graders and scrtrs, mfy	.09	.12	.15	.33	.40	.40	1.17	1.16	1.24
Packer, wrapper, exc meat, prodce	.04	.05	.07	.59	.63	.56	1.85	1.75	2.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Logging			Sawmill, planing and mill work			Misc wood products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	6.15	6.99	7.71	31.17	30.53	28.65	40.20	38.97	33.21
Asbestos,insulation workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Assemblers	.08	.13	.23	1.96	2.20	2.80	4.41	4.95	5.95
Blasters	.02	.02	.02	.01	.01	.01	.00	.00	.00
Surveyors' helpers	.01	.02	.03	.01	.01	.02	.00	.00	.00
Cutting operatives, other	.13	.15	.15	2.63	2.54	2.39	2.47	2.39	2.15
Drillers, earth	.01	.01	.01	.00	.00	.00	.00	.00	.00
Dry wall installers, lathers	.00	.00	.00	.00	.00	.00	.05	.05	.01
Dyers	.00	.00	.00	.00	.00	.00	.04	.04	.06
Filer,polisher,sander,buffer	.07	.05	.04	1.42	1.09	.69	2.14	1.53	.59
Garage wkr, gas station atten	.01	.01	.01	.02	.01	.01	.01	.01	.01
Laundry,dry cleang oprs,other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mixing operatives	.01	.01	.00	.14	.14	.12	.12	.10	.06
Oilers,greasers,exc automobiles	.03	.03	.03	.18	.20	.22	.11	.13	.18
Painters, mfg articles	.00	.00	.00	.40	.31	.18	1.63	1.19	.66
Photographic process workers	.00	.00	.00	.01	.01	.01	.01	.00	.00
Riveters and fasteners	.00	.00	.00	.29	.26	.23	2.43	2.17	1.60
Sawyers	4.02	4.73	5.72	12.00	12.01	12.12	7.93	8.23	8.95
Sewers and stitchers	.00	.00	.00	.07	.06	.05	.10	.08	.07
Furnace tendr, stokr, exc metal	.08	.06	.06	.93	.61	.49	.77	.54	.58
Winding operatives, other	.01	.01	.00	.04	.04	.03	.13	.11	.05
Miscellaneous machine operatves	1.10	1.18	.89	6.61	6.73	5.55	9.08	9.16	8.07
Other operatives, exc transport	.55	.58	.53	4.43	4.30	3.72	8.78	8.28	4.22
Transport equipment operatives	8.67	8.59	9.95	8.22	8.76	9.92	5.66	6.48	8.27
Delivery and route workers	.14	.16	.20	.31	.32	.36	.29	.30	.30
Fork lift,tow motor operatives	.53	.65	.60	3.79	4.43	4.75	2.99	3.55	4.38
Rail vehicle operators, other	.01	.01	.01	.01	.01	.01	.02	.02	.01
Railroad brake operators	.01	.01	.01	.02	.03	.03	.02	.04	.04
Railroad switch operators	.00	.00	.00	.00	.00	.00	.04	.03	.01
Taxicab drivers, chauffeurs	.01	.01	.01	.01	.01	.01	.03	.02	.01
Truck drivers	7.97	7.74	9.13	4.08	3.96	4.77	2.28	2.54	3.53
Service workers	.36	.34	.33	2.05	1.80	1.49	2.05	1.73	1.14
Cleaning service workers	.16	.14	.13	1.03	.78	.38	1.27	.97	.36
Bldg interior cleaners, other	.04	.04	.04	.16	.13	.08	.24	.20	.08
Janitors and sextons	.11	.10	.09	.88	.65	.30	1.04	.77	.28
Food service wrkrs	.05	.04	.03	.03	.02	.02	.03	.04	.05
Cooks, exc private households	.04	.03	.02	.02	.01	.01	.01	.01	.01
Dishwashers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Waiters	.01	.00	.00	.00	.00	.00	.01	.01	.01
Other food serv wrks, exc privt	.00	.00	.00	.01	.01	.01	.01	.01	.01
Personal service workers	.00	.00	.00	.01	.01	.01	.03	.03	.03
Attendants, personal serv, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Elevator operators	.00	.00	.00	.01	.01	.01	.01	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.00	.00	.00	.01	.01	.01
Protective service workers	.16	.17	.18	.99	.99	1.09	.71	.70	.69
Firefighters	.00	.00	.00	.01	.01	.01	.02	.01	.02
Guards	.15	.17	.18	.96	.97	1.07	.69	.68	.68
Laborers, except farm	64.68	60.24	53.36	23.74	20.80	16.65	9.21	7.68	5.02
Carpenter helpers	.04	.05	.05	.36	.33	.53	.40	.36	.29
Constr labr, exc carpenter helpr	.08	.05	.01	.24	.17	.10	.31	.22	.08
Freight and material handlers	4.12	4.03	3.05	12.68	11.85	10.41	4.75	4.26	3.34
Gardenrs, groundkeepers, exc farm	.19	.19	.13	.11	.11	.10	.20	.20	.17
Longshore workers, stevedores	.04	.06	.07	.01	.01	.02	.00	.00	.00
Timbercutting, logging workers	58.77	54.90	49.83	3.01	2.52	1.84	.97	.82	.48
Stock handlers	.07	.08	.07	.18	.15	.07	.28	.25	.14
Teamsters	1.31	.83	.10	.76	.48	.21	.02	.02	.01
Vehicle washers, equip cleaners	.06	.05	.05	.09	.08	.05	.14	.12	.05
Warehouse laborers, other	.01	.01	.01	.11	.10	.06	.05	.04	.02
Other laborers	.00	.00	.00	6.21	5.01	3.27	2.09	1.39	.44

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and fixtures			Stone, clay, and glass products			Glass and glass products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.48	2.80	2.97	6.16	6.41	5.67	6.31	6.61	5.83
Engineers, technical	.47	.46	.41	1.56	1.43	1.30	1.56	1.45	1.32
Chemical	.01	.01	.04	.17	.15	.13	.12	.11	.10
Civil	.01	.01	.01	.17	.13	.15	.04	.03	.02
Electrical	.01	.01	.01	.12	.12	.13	.15	.16	.18
Industrial	.25	.25	.19	.41	.43	.38	.48	.49	.46
Mechanical	.07	.06	.06	.26	.24	.22	.32	.30	.31
Metallurgical	.00	.00	.00	.02	.02	.02	.01	.01	.01
Mining	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sales	.02	.02	.02	.09	.07	.07	.03	.02	.00
Other engineers	.10	.09	.08	.32	.27	.21	.40	.33	.24
Life and physical scientists	.01	.01	.01	.43	.39	.28	.36	.35	.33
Chemists	.01	.01	.01	.38	.34	.20	.28	.27	.24
Geologists	.00	.00	.00	.02	.02	.04	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.02	.03	.04	.07	.07	.08
Mathematical specialists	.00	.00	.00	.02	.02	.01	.03	.02	.01
Statisticians	.00	.00	.00	.02	.02	.01	.02	.02	.01
Engineering, science technicians	.57	.57	.76	1.70	1.71	1.66	1.48	1.50	1.57
Chemical technicians	.01	.01	.02	.38	.40	.34	.05	.05	.04
Drafters	.47	.44	.57	.43	.37	.41	.37	.33	.39
Electrical and electronic	.01	.02	.02	.07	.06	.03	.11	.09	.03
Industrial engineering	.03	.04	.05	.11	.13	.13	.15	.19	.20
Mechanical engineering	.00	.00	.00	.02	.02	.01	.02	.02	.01
Other engineering, science tech	.06	.07	.10	.69	.72	.73	.79	.83	.90
Medical workers, exc technicians	.03	.03	.03	.07	.07	.07	.15	.15	.14
Registered nurses	.03	.03	.03	.06	.06	.07	.15	.14	.14
Technicians, except health	.01	.02	.04	.06	.08	.08	.07	.09	.11
Airplane pilots	.01	.02	.04	.02	.03	.04	.02	.03	.05
Radio operators	.00	.00	.00	.02	.02	.01	.01	.01	.01
Tool programmers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other technicians except health	.00	.00	.00	.02	.03	.03	.03	.04	.05
Computer specialists	.11	.15	.14	.18	.23	.21	.22	.28	.24
Computer programmers	.08	.10	.10	.11	.13	.11	.14	.15	.13
Computer systems analysts	.03	.05	.04	.06	.09	.09	.08	.12	.11
Social scientists	.03	.05	.05	.09	.14	.11	.11	.15	.11
Economists	.03	.05	.05	.09	.13	.11	.10	.15	.11
Teachers	.01	.01	.01	.02	.02	.02	.02	.02	.01
Adult education	.01	.01	.01	.02	.02	.02	.02	.02	.01
Writers, artists, entertainers	.45	.58	.63	.61	.72	.56	.87	.97	.67
Designers	.37	.48	.55	.22	.28	.32	.25	.31	.35
Editors and reporters	.01	.01	.02	.01	.01	.02	.02	.02	.02
Painters and sculptors	.02	.02	.01	.29	.31	.13	.50	.52	.17
Photographers	.00	.00	.00	.01	.01	.02	.03	.03	.04
Public relations specialists	.04	.05	.04	.07	.09	.08	.06	.07	.07
Other writers, artists, entertain	.01	.01	.01	.01	.01	.01	.02	.02	.01
Other professional and technical	.78	.92	.88	1.41	1.61	1.37	1.45	1.63	1.34
Accountants	.48	.59	.63	.85	.98	.92	.75	.84	.72
Architects	.01	.01	.01	.01	.01	.00	.02	.01	.01
Lawyers	.00	.00	.00	.04	.06	.04	.02	.03	.01
Librarians	.00	.00	.00	.01	.01	.01	.01	.01	.01
Operations and systems research	.06	.09	.08	.12	.18	.18	.16	.25	.29
Personnel, labor relations wkrs	.20	.22	.16	.28	.29	.20	.37	.38	.24
Other research workers	.03	.02	.00	.10	.08	.03	.12	.10	.07
Managers, officials, proprietors	5.67	6.65	6.85	7.03	8.25	8.53	4.02	4.58	4.60
Buyers, sales, loan managers	1.02	.96	.91	1.08	.99	.83	.79	.70	.54
Bank, financial managers	.08	.08	.05	.12	.11	.07	.13	.11	.06
Credit managers	.08	.05	.04	.09	.05	.05	.03	.01	.01
Purchasing agents, buyers, other	.43	.37	.32	.36	.29	.20	.31	.25	.18
Sales manager, exc retail trade	.43	.46	.50	.52	.53	.51	.32	.32	.30

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and fixtures			Stone, clay, and glass products			Glass and glass products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers, officials, proprts	4.65	5.69	5.94	5.95	7.26	7.70	3.23	3.88	4.06
Office managers, other	.31	.33	.36	.47	.47	.45	.19	.19	.19
Officers, pilots, pursers, snip	.00	.00	.00	.02	.01	.01	.00	.00	.00
Restaurant, cafe, bar, managers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other managers, administrators	4.33	5.35	5.56	5.46	6.77	7.23	3.03	3.68	3.87
Sales workers	2.29	2.40	2.84	2.15	2.30	2.88	1.20	1.22	1.43
Advertising agents, sales worker	.01	.02	.03	.01	.02	.04	.01	.02	.04
Other sales workers	2.27	2.38	2.81	2.14	2.28	2.84	1.18	1.20	1.39
Clerical workers	9.38	9.37	9.67	9.96	9.67	9.24	9.27	8.87	8.70
Stenographs, typists, secretaries	2.58	2.66	3.17	3.07	3.06	3.54	3.05	3.06	3.70
Legal secretaries	.00	.00	.00	.02	.02	.02	.03	.02	.03
Other secretaries	1.96	2.10	2.63	2.41	2.51	3.04	2.45	2.56	3.23
Stenographers	.05	.03	.02	.08	.03	.00	.07	.03	.01
Typists	.58	.52	.52	.56	.49	.47	.51	.45	.44
Office machine operators	.46	.48	.29	.51	.55	.32	.54	.52	.28
Bookkeeping and billing	.05	.02	.01	.05	.02	.01	.03	.01	.00
Calculating	.02	.01	.01	.02	.01	.01	.03	.02	.00
Computer and peripheral equip	.11	.23	.16	.15	.31	.22	.13	.26	.19
Duplicating	.01	.01	.01	.01	.01	.01	.01	.01	.01
Keypunch	.25	.19	.10	.25	.18	.07	.31	.20	.06
Tabulating	.00	.00	.00	.01	.00	.00	.01	.00	.00
Other office machine operators	.02	.02	.01	.02	.02	.01	.02	.02	.01
Other clerical workers	6.34	6.24	6.21	6.38	6.07	5.38	5.68	5.29	4.72
Billing clerks	.20	.22	.27	.20	.21	.23	.18	.18	.22
Bookkeepers	1.31	1.33	1.44	1.48	1.46	1.47	.96	.97	1.05
Cashiers	.03	.04	.06	.04	.04	.04	.05	.05	.03
Clerical supervisors, other	.07	.08	.07	.11	.13	.11	.11	.12	.10
Collectors, bill and account	.01	.01	.02	.02	.02	.02	.01	.01	.01
Counter clerks, exc food	.19	.20	.20	.14	.15	.14	.14	.14	.13
Dispatchers, starters, vehicle	.02	.02	.02	.38	.37	.32	.02	.02	.02
Estimators, investigators, other	.21	.24	.14	.19	.20	.10	.15	.15	.07
Expeditors, production controls	.48	.49	.47	.45	.43	.32	.52	.47	.30
File clerks	.14	.13	.15	.12	.11	.11	.14	.12	.12
Mail handlers, exc post office	.08	.07	.06	.07	.07	.05	.09	.08	.05
Messengers and office helpers	.02	.02	.03	.02	.02	.01	.01	.01	.01
Payroll, timekeeping clerks	.39	.44	.43	.40	.43	.37	.45	.48	.40
Receptionists	.20	.18	.12	.18	.15	.07	.15	.12	.05
Shipping and receiving clerks	1.57	1.51	1.72	.84	.77	.84	1.05	.97	1.08
Statistical clerks	.13	.14	.12	.20	.21	.17	.19	.20	.16
Stock clerks and store keepers	.70	.53	.25	.57	.41	.16	.59	.41	.13
Telephone operators	.12	.10	.12	.12	.08	.08	.13	.09	.07
Weighers	.00	.00	.00	.19	.17	.09	.09	.07	.03
Misc clerical workers	.48	.50	.55	.65	.65	.68	.66	.66	.70
Crafts and kindred workers	26.84	26.06	25.70	18.45	19.20	21.51	17.80	19.20	22.69
Construction crafts workers	3.88	4.04	4.00	3.60	3.32	3.30	2.33	2.28	2.48
Carpenters and apprentices	3.00	3.24	3.38	.58	.64	.72	.48	.50	.55
Brick, stonemasons, apprentices	.01	.01	.01	.41	.28	.09	.20	.14	.04
Bulldozer operators	.00	.00	.00	.25	.22	.20	.13	.11	.08
Cement and concrete finishers	.00	.00	.00	.34	.36	.54	.00	.00	.00
Electricians and apprentices	.17	.19	.23	.86	.90	1.00	.98	1.06	1.36
Excavating, grading mach operatr	.01	.01	.02	.69	.52	.30	.08	.06	.03
Painters and apprentices	.62	.52	.25	.10	.07	.03	.11	.08	.03
Plasterers and apprentices	.01	.01	.00	.02	.02	.03	.00	.00	.00
Plumbers, pipefitters, apprentices	.34	.05	.08	.25	.25	.37	.32	.31	.39
Structural metal craft workers	.02	.01	.02	.02	.01	.00	.03	.02	.01
Tile setters	.01	.01	.01	.06	.03	.01	.00	.00	.00
Blue collar worker supervisors	4.43	5.17	6.30	5.09	5.68	6.43	4.91	5.42	6.13
Metalworkg craft wrks, exc mech	1.30	1.23	1.17	2.45	2.71	3.98	3.72	4.30	6.88
Blacksmiths	.00	.00	.00	.02	.01	.00	.01	.01	.00
Boilermakers	.00	.00	.00	.02	.03	.04	.01	.01	.01
Heat treaters, annealers	.00	.00	.00	.01	.01	.02	.02	.02	.04
Forge and hammer operators	.01	.01	.02	.01	.02	.03	.01	.02	.04
Job and die setters, metal	.11	.09	.06	.06	.05	.04	.05	.04	.03
Machinists and apprentices	.57	.59	.54	1.57	1.81	2.78	2.74	3.26	5.32
Millwrights	.11	.12	.14	.35	.42	.55	.43	.51	.69
Pattern and moldmakers	.10	.08	.09	.08	.07	.10	.13	.11	.17
Rollers and finishers, metal	.00	.00	.00	.02	.02	.01	.01	.01	.01
Sheetmetal workers, apprentices	.19	.15	.10	.09	.09	.13	.13	.13	.20
Tool and diemakers, apprentices	.22	.20	.22	.19	.19	.29	.18	.20	.38

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and fixtures			Stone, clay, and glass products			Glass and glass products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	1.52	1.82	2.28	4.40	4.76	4.82	4.03	4.60	5.02
Air cond, heating, refrig meca	.01	.02	.01	.07	.10	.11	.14	.20	.22
Aircraft mechanics	.03	.05	.11	.00	.00	.00	.00	.00	.00
Auto body repairers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Auto mechanics and apprentices	.06	.05	.03	.88	.68	.30	.07	.05	.02
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	1.24	1.54	1.98	3.15	3.72	4.26	3.49	4.08	4.62
Household appliance mechanics	.06	.06	.03	.01	.01	.01	.01	.01	.01
Loom fixers	.00	.00	.00	.02	.02	.03	.03	.03	.04
Office machine repairers	.02	.02	.04	.00	.00	.00	.01	.00	.00
Radio, television repairers	.03	.03	.04	.01	.01	.02	.03	.02	.04
Railroad, car shop repairers	.00	.00	.00	.01	.00	.00	.02	.02	.01
Other mechanics and apprentices	.05	.05	.02	.24	.20	.08	.23	.18	.05
Printing trade crafts workers	.07	.09	.13	.09	.11	.15	.16	.17	.23
Compositors and typesetters	.05	.06	.09	.04	.04	.07	.03	.05	.10
Engravers exc photoengravers	.01	.00	.00	.02	.02	.01	.05	.03	.00
Press, plate printers, apprentices	.02	.02	.04	.03	.04	.07	.07	.09	.14
Transport, public util craft wkrs	.02	.02	.02	.05	.05	.04	.04	.03	.01
Elec pwr line instaler, repairer	.01	.01	.01	.00	.00	.00	.00	.00	.00
Locomotive engineers	.00	.00	.00	.02	.02	.03	.00	.00	.00
Power station operators	.01	.01	.01	.02	.02	.01	.03	.03	.01
Other crafts, kindred workers	15.62	13.70	11.81	2.77	2.59	2.81	2.61	2.40	1.94
Bakers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Cabinetmakers	6.57	6.96	6.69	.00	.00	.00	.00	.00	.00
Carpet installers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Crane, derrick, hoist operator	.07	.06	.10	1.05	.92	1.33	.31	.24	.24
Decorators, window dressers	.01	.02	.03	.01	.01	.02	.01	.01	.00
Furniture and wood finishers	2.58	2.22	1.09	.01	.01	.01	.01	.01	.01
Glaziers	.03	.04	.05	.18	.20	.21	.62	.67	.67
Inspectors, lcg and lumber	.08	.09	.12	.00	.00	.00	.00	.00	.00
Inspectors, other	.02	.02	.03	.05	.06	.07	.03	.04	.04
Jewelers and watchmakers	.00	.00	.00	.01	.01	.01	.02	.02	.03
Opticians, lens grinder, polisner	.00	.00	.00	.08	.11	.16	.26	.36	.51
Stationary engineers	.08	.05	.01	.26	.19	.07	.17	.12	.05
Stone cutters, stone carvers	.00	.00	.00	.69	.74	.76	.01	.02	.04
Tailors	.17	.17	.17	.01	.01	.00	.01	.01	.01
Upholsterers	5.83	3.92	3.46	.01	.01	.00	.02	.01	.01
Other crafts workers	.17	.13	.05	.42	.33	.15	1.15	.89	.33
Operatives	47.32	47.09	47.00	45.71	45.22	46.00	52.41	51.84	51.71
Operatives, except transport	44.69	44.30	43.49	35.02	33.92	30.69	48.54	47.65	46.98
Semiskilled metalworking	3.73	3.34	3.23	2.81	2.49	2.38	1.86	1.50	1.40
Drill press operatives	.19	.12	.03	.13	.08	.02	.07	.04	.01
Furnace tendrs, smeltrs, pourers	.00	.00	.00	.18	.20	.26	.14	.15	.21
Grinding machine operatives	.08	.06	.03	.23	.17	.09	.09	.07	.04
Heaters, metal	.00	.00	.00	.00	.00	.01	.01	.01	.03
Lathe, milling mach operatives	.54	.35	.19	.50	.31	.14	.66	.39	.15
Metal platers	.05	.04	.01	.04	.03	.01	.05	.03	.01
Other precision mach operators	.59	.40	.21	.06	.04	.02	.07	.04	.02
Punch, stamping press operatives	.60	.48	.26	.38	.26	.08	.17	.10	.02
Solderers	.02	.02	.01	.01	.01	.00	.02	.02	.01
Welders and flamecutters	1.67	1.89	2.50	1.29	1.41	1.75	.58	.65	.91
Semiskilled packing, inspecting	3.87	4.16	5.52	8.64	8.73	10.80	20.59	20.72	24.91
Checkers, examiners, mfg	1.92	2.17	2.98	4.71	4.95	6.37	11.65	12.08	14.74
Graders and scrtrs, mfg	.05	.05	.07	.33	.29	.20	.31	.26	.12
Packer, wrapper, exc meat, prodce	1.91	1.94	2.47	3.61	3.49	4.23	8.63	8.38	10.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and fixtures			Stone,clay, and glass products			Glass and glass products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	37.09	36.79	34.75	23.56	22.70	17.51	26.09	25.43	20.67
Asbestos,insulation workers	.00	.00	.00	.07	.08	.04	.03	.05	.06
Assemblers	7.63	8.76	11.07	1.21	1.39	1.93	2.50	2.80	3.59
Blasters	.00	.00	.00	.03	.03	.05	.00	.00	.00
Clothing ironers and pressers	.03	.02	.01	.01	.00	.00	.02	.01	.01
Cutting operatives, other	1.39	1.43	1.35	1.50	1.47	1.31	3.71	3.59	3.05
Drillers, earth	.00	.00	.00	.08	.06	.02	.00	.00	.00
Dry wall installers, lathers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Dyers	.02	.02	.04	.01	.01	.01	.02	.03	.04
Filer,polisher,sander,buffer	4.94	3.90	1.50	.95	.75	.32	1.74	1.39	.63
Garage wrkr,gas station atten	.01	.00	.00	.04	.02	.01	.02	.02	.01
Mixing operatives	.10	.10	.09	1.46	1.41	1.11	.44	.40	.28
Oilers,greasers,exc automobiles	.03	.04	.05	.37	.37	.35	.17	.17	.19
Painters, mfg articles	4.22	3.44	2.49	.63	.48	.30	.43	.32	.17
Photographic process workers	.02	.02	.03	.03	.03	.03	.04	.04	.03
Riveters and fasteners	.44	.42	.35	.06	.05	.03	.12	.11	.06
Sailors and deckhands	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sawyers	4.33	4.68	5.66	.30	.30	.26	.20	.20	.24
Sewers and stitchers	3.62	3.23	3.86	.10	.09	.10	.10	.08	.08
Shoemaking machine operatives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Furnace tendr,stkpr,exc metal	.23	.11	.02	1.33	.80	.61	.83	.67	1.12
Winding operatives, other	.04	.04	.03	.20	.17	.07	.41	.32	.10
Miscellaneous machine operatives	5.30	5.59	4.88	9.14	9.19	7.41	10.64	10.67	8.50
Other operatives,exc transport	4.72	4.95	3.31	6.02	5.98	3.53	4.69	4.57	2.49
Transport equipment operatives	2.64	2.79	3.50	10.69	11.30	15.31	3.88	4.19	4.74
Delivery and route workers	.47	.47	.70	.78	.72	.88	.23	.22	.34
Fork lift,tow motor operatives	.67	.81	.91	2.40	2.68	2.56	2.41	2.74	2.75
Rail vehicle operators, other	.00	.00	.00	.02	.02	.03	.02	.02	.05
Railroad brake operators	.01	.00	.00	.03	.04	.09	.00	.00	.00
Railroad switch operators	.00	.00	.00	.03	.04	.06	.00	.00	.00
Taxicab drivers, chauffeurs	.02	.02	.01	.05	.04	.02	.03	.04	.04
Truck drivers	1.47	1.49	1.89	7.37	7.74	11.65	1.17	1.16	1.57
Service workers	1.75	1.56	.99	2.19	1.75	.83	2.63	2.03	.88
Cleaning service workers	1.18	1.04	.59	1.60	1.22	.43	1.85	1.36	.43
Bldg interior cleaners, other	.20	.18	.08	.27	.21	.07	.33	.26	.08
Janitors and sextons	.98	.86	.51	1.33	1.00	.36	1.52	1.11	.35
Food service workers	.07	.06	.09	.06	.05	.03	.13	.10	.06
Cooks,exc private households	.02	.02	.02	.02	.02	.01	.04	.03	.02
Dishwashers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Food counter,fountain workers	.01	.02	.04	.01	.01	.01	.04	.03	.01
Waiters	.01	.01	.02	.01	.01	.01	.03	.02	.01
Other food serv wkrs,exc privt	.02	.01	.01	.01	.01	.00	.02	.02	.01
Health service workers	.01	.01	.00	.02	.02	.02	.03	.03	.03
Nursing aides and orderlies	.00	.00	.00	.01	.01	.02	.02	.02	.02
Practical nurses	.00	.00	.00	.00	.00	.00	.01	.01	.01
Personal service workers	.04	.03	.02	.04	.03	.02	.07	.05	.03
Attendants, personal serv, other	.01	.01	.01	.01	.01	.00	.05	.03	.01
Elevator operators	.03	.02	.01	.02	.02	.02	.01	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.01	.00	.00	.02	.01	.01
Protective service workers	.46	.43	.29	.47	.44	.33	.55	.50	.35
Firefighters	.01	.01	.01	.02	.01	.02	.03	.03	.04
Guards	.44	.41	.27	.45	.42	.31	.52	.47	.31
Police and detectives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Laborers, except farm	4.28	4.08	3.99	8.36	7.20	5.34	6.36	5.65	4.16
Carpenter helpers	.55	.53	.89	.22	.20	.32	.04	.03	.04
Constr labr,exc carpenter helper	.07	.05	.02	.85	.74	.60	.09	.07	.02
Freight and material handlers	2.44	2.41	2.31	4.28	3.83	3.04	4.00	3.68	3.00
Gardenrs,groundkeepers,exc farm	.03	.03	.03	.10	.09	.06	.09	.09	.06
Longshore workers, stevedores	.00	.00	.00	.01	.01	.02	.00	.00	.00
Timbercutting, logging workers	.01	.01	.02	.01	.00	.00	.00	.00	.00
Stock handlers	.36	.33	.13	.49	.42	.17	.25	.22	.07
Teamsters	.01	.00	.00	.01	.01	.02	.02	.02	.04
Vehicle washers,equip cleaners	.13	.10	.03	.34	.29	.10	.66	.54	.17
Warehouse labcrers, other	.18	.19	.25	.20	.19	.19	.32	.30	.31
Other laborers	.49	.42	.31	1.86	1.41	.83	.89	.71	.45

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cement, concrete, plaster			Structural clay products			Pottery and related products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	5.74	5.82	4.81	3.88	3.99	3.89	5.85	6.45	7.14
Engineers, technical	1.36	1.17	1.00	.81	.67	.59	1.43	1.32	1.32
Chemical	.07	.07	.05	.25	.16	.02	.26	.19	.06
Civil	.39	.30	.31	.08	.07	.12	.04	.03	.04
Electrical	.08	.07	.05	.01	.02	.02	.12	.13	.15
Industrial	.26	.27	.23	.16	.16	.15	.47	.48	.45
Mechanical	.17	.16	.14	.08	.06	.03	.19	.18	.23
Mining	.02	.02	.01	.00	.00	.00	.00	.00	.00
Sales	.09	.07	.07	.13	.11	.15	.08	.08	.14
Other engineers	.25	.21	.14	.10	.09	.10	.27	.24	.25
Life and physical scientists	.49	.41	.20	.43	.41	.29	.22	.22	.35
Chemists	.45	.38	.16	.40	.38	.24	.22	.22	.23
Geologists	.03	.02	.03	.03	.03	.05	.00	.00	.00
Physicists and astronomers	.01	.01	.01	.00	.00	.00	.00	.00	.12
Mathematical specialists	.03	.03	.02	.01	.01	.01	.01	.01	.01
Statisticians	.02	.02	.02	.01	.01	.01	.01	.01	.01
Engineering, science technicians	1.75	1.73	1.54	1.24	1.30	1.50	1.48	1.55	1.95
Agricultural, biol, exc health	.00	.00	.00	.02	.02	.02	.00	.00	.00
Chemical technicians	.97	.99	.82	.01	.01	.01	.02	.02	.02
Drafters	.47	.40	.39	.21	.21	.34	.43	.41	.63
Electrical and electronic	.04	.04	.03	.03	.03	.02	.10	.09	.06
Industrial engineering	.05	.05	.04	.12	.14	.12	.12	.14	.11
Mechanical engineering	.00	.00	.00	.00	.00	.00	.04	.04	.02
Surveyors	.01	.01	.01	.01	.01	.03	.00	.00	.00
Other engineering, science tech	.22	.24	.26	.84	.89	.96	.78	.85	1.11
Medical workers, exc technicians	.01	.01	.01	.04	.06	.13	.06	.08	.13
Physicians and osteopaths	.00	.00	.00	.01	.01	.04	.00	.00	.00
Registered nurses	.01	.01	.01	.04	.05	.09	.06	.08	.13
Technicians, except health	.08	.10	.09	.02	.03	.05	.04	.06	.09
Airplane pilots	.04	.06	.07	.01	.01	.03	.00	.00	.00
Radio operators	.03	.03	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.01	.01	.01	.01	.02	.03	.04	.06	.09
Computer specialists	.21	.25	.20	.08	.10	.10	.07	.10	.10
Computer programmers	.14	.16	.13	.06	.07	.06	.05	.06	.05
Computer systems analysts	.07	.10	.08	.02	.03	.03	.03	.04	.04
Social scientists	.10	.13	.08	.02	.03	.05	.00	.00	.00
Economists	.08	.12	.08	.02	.03	.05	.00	.00	.00
Political scientists	.01	.01	.00	.00	.00	.00	.00	.00	.00
Teachers	.01	.01	.03	.04	.04	.02	.04	.04	.01
Adult education	.01	.01	.03	.04	.04	.02	.04	.04	.01
Writers, artists, entertainers	.23	.29	.28	.38	.44	.30	1.78	2.27	2.41
Designers	.09	.11	.11	.19	.23	.20	.93	1.28	1.79
Editors and reporters	.02	.02	.03	.00	.00	.00	.00	.00	.00
Painters and sculptors	.03	.03	.03	.12	.13	.05	.77	.88	.48
Photographers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Public relations specialists	.09	.12	.11	.05	.06	.03	.04	.07	.10
Other writers, artists, entertain	.00	.00	.00	.01	.01	.01	.04	.05	.04
Other professional and technical	1.48	1.69	1.37	.82	.91	.86	.72	.83	.77
Accountants	.99	1.14	1.04	.58	.67	.67	.35	.39	.38
Architects	.00	.00	.00	.00	.00	.00	.01	.01	.01
Lawyers	.07	.12	.08	.00	.00	.00	.03	.06	.06
Librarians	.02	.01	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.09	.11	.08	.05	.07	.08	.11	.16	.15
Personnel, labor relations wkrs	.24	.25	.15	.12	.13	.09	.16	.17	.16
Other research workers	.08	.06	.01	.07	.05	.03	.06	.04	.01
Managers, officials, proprietors	10.50	12.20	12.12	5.59	7.49	10.25	3.82	4.48	5.04
Buyers, sales, loan managers	1.32	1.17	.91	.79	.74	.76	.71	.68	.74
Bank, financial managers	.14	.13	.07	.07	.06	.07	.06	.06	.07
Credit managers	.15	.09	.10	.09	.06	.08	.03	.03	.04
Purchasing agents, buyers, other	.38	.30	.18	.25	.21	.18	.32	.26	.20
Sales manager, exc retail trade	.65	.65	.57	.39	.41	.43	.30	.33	.44

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cement, concrete, plaster			Structural clay products			Pottery and related products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers,officials,proprts	9.18	11.03	11.21	4.81	6.76	9.50	3.11	3.80	4.29
Mgrs, superintendents, building	.01	.01	.01	.00	.00	.00	.00	.00	.00
Office managers, other	.73	.72	.61	.40	.40	.39	.20	.21	.23
Officers,pilots,pursers,snip	.03	.02	.01	.02	.02	.02	.00	.00	.00
Other managers, administrators	8.41	10.27	10.57	4.39	6.34	9.10	2.91	3.60	4.06
Sales workers	2.80	2.98	3.66	2.14	2.66	4.32	1.47	1.69	2.70
Advertising agents,sales worker	.03	.03	.03	.00	.00	.00	.00	.00	.00
Other sales wrkrs	2.78	2.95	3.63	2.14	2.66	4.32	1.47	1.69	2.70
Clerical workers	10.71	10.29	9.05	6.25	6.17	6.43	8.08	7.71	8.17
Stenographrs,typists,secretaries	3.14	3.07	3.25	1.96	1.97	2.27	2.33	2.41	3.43
Legal secretaries	.03	.03	.02	.00	.00	.00	.00	.00	.00
Other secretaries	2.60	2.64	2.89	1.53	1.63	1.97	1.81	1.96	2.91
Stenographers	.08	.03	.00	.09	.04	.01	.03	.02	.01
Typists	.43	.37	.33	.34	.29	.30	.49	.43	.51
Office machine operators	.48	.52	.29	.33	.31	.21	.46	.54	.47
Bookkeeping and billing	.08	.03	.01	.03	.01	.01	.02	.01	.01
Calculating	.01	.01	.01	.02	.01	.01	.03	.01	.01
Computer and peripheral equip	.15	.31	.19	.06	.13	.12	.14	.32	.34
Keypunch	.21	.15	.06	.18	.14	.07	.22	.16	.09
Tabulating	.01	.00	.00	.02	.00	.00	.01	.00	.00
Other office machine operators	.02	.02	.01	.01	.01	.01	.04	.04	.03
Other clerical workers	7.10	6.71	5.52	3.95	3.90	3.95	5.29	4.75	4.28
Billing clerks	.23	.24	.25	.20	.20	.23	.06	.06	.07
Bookkeepers	2.32	2.24	2.05	.93	.90	.80	.69	.74	1.06
Cashiers	.02	.02	.01	.00	.00	.00	.13	.15	.24
Clerical supervisors, other	.13	.15	.12	.07	.08	.09	.04	.04	.03
Collectors, bill and account	.03	.03	.03	.02	.02	.02	.00	.00	.00
Counter clerks,exc food	.11	.11	.09	.08	.09	.11	.14	.15	.18
Dispatchers,starters,vehicle	1.05	1.02	.85	.01	.01	.01	.04	.04	.05
Estimators,investigators,other	.22	.22	.10	.08	.08	.05	.11	.12	.09
Expediters,prduction controlrs	.30	.30	.24	.27	.25	.21	.36	.33	.23
File clerks	.09	.08	.07	.06	.05	.06	.14	.13	.22
Mail handlers,exc post office	.07	.06	.04	.05	.05	.04	.09	.08	.08
Messengers and office helpers	.02	.02	.02	.04	.05	.08	.00	.00	.00
Payroll,timekeeping clerks	.34	.36	.28	.40	.44	.41	.49	.52	.49
Receptionists	.18	.13	.04	.16	.17	.20	.25	.24	.22
Shipping and receiving clerks	.33	.31	.33	.81	.80	1.03	1.13	.84	.42
Statistical clerks	.19	.20	.13	.11	.12	.11	.29	.31	.28
Stock clerks and store keepers	.41	.30	.11	.30	.23	.12	.90	.65	.31
Telephone operators	.14	.10	.10	.02	.02	.01	.14	.05	.01
Weighers	.28	.24	.11	.01	.01	.01	.09	.08	.06
Misc clerical workers	.61	.59	.56	.31	.32	.36	.22	.22	.26
Crafts and kindred workers	19.92	19.47	18.70	14.37	14.80	16.54	11.21	11.91	14.39
Construction crafts workers	5.47	4.88	4.39	3.90	3.30	2.75	1.37	1.28	1.30
Carpenters and apprentices	.82	.88	.92	.43	.50	.67	.32	.37	.56
Brick,stonemasons, apprentices	.42	.27	.05	1.17	.88	.34	.26	.19	.09
Bulldozer operators	.36	.29	.18	.40	.37	.49	.00	.00	.00
Cement and concrete finishers	.97	1.00	1.45	.06	.05	.03	.00	.00	.00
Electricians and apprentices	.94	.92	.77	.47	.53	.68	.48	.44	.32
Excavating,grading mach operatr	1.51	1.15	.66	.60	.42	.17	.04	.03	.01
Painters and apprentices	.12	.09	.04	.18	.14	.04	.12	.10	.05
Plasterers and apprentices	.06	.05	.09	.03	.02	.01	.00	.00	.00
Plumbers,pipefitters,aprentices	.17	.17	.23	.16	.16	.22	.13	.14	.24
Roofers and slaters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Structural metal craft workers	.04	.02	.01	.00	.00	.00	.00	.00	.00
Tile setters	.05	.02	.01	.41	.24	.08	.01	.01	.01
Blue collar worker supervisors	5.34	5.88	6.19	4.57	5.07	5.65	3.91	4.28	5.02
Metalworkg craft wrkrs,exc mech	1.01	1.03	1.10	1.44	1.60	2.30	2.85	2.79	3.15
Blacksmiths	.03	.02	.00	.00	.00	.00	.00	.00	.00
Boilermakers	.06	.06	.10	.01	.01	.01	.00	.00	.00
Heat treaters, annealers	.00	.00	.00	.02	.02	.03	.04	.05	.10
Forge and hammer operators	.02	.02	.03	.02	.02	.02	.00	.00	.00
Job and die setters, metal	.01	.01	.01	.05	.04	.02	.13	.09	.07
Machinists and apprentices	.60	.63	.68	.89	1.07	1.70	1.92	1.78	1.34
Millwrights	.18	.19	.17	.22	.25	.31	.27	.39	.79
Pattern and mcldmakers	.04	.03	.03	.07	.06	.09	.10	.09	.20
Rollers and finishers,metal	.00	.00	.00	.02	.02	.02	.00	.00	.00
Sheetmetal workers, apprentices	.04	.02	.01	.01	.01	.01	.03	.02	.01
Tool and diemakers, apprentices	.04	.04	.07	.14	.10	.09	.37	.37	.65

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cement, concrete, plaster			Structural clay products			Pottery and related products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	5.57	5.55	4.61	3.57	3.98	4.56	2.55	2.98	3.98
Air cond, heating, refrig meca	.02	.03	.03	.03	.04	.05	.03	.06	.08
Auto body repairers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	2.11	1.62	.70	.67	.49	.17	.12	.09	.04
Farm implement mechanics	.00	.00	.00	.03	.03	.01	.00	.00	.00
Heavy equip mech, incl diesel	3.13	3.64	3.79	2.74	3.34	4.27	2.16	2.62	3.73
Household appliance mechanics	.00	.00	.00	.02	.02	.02	.03	.03	.03
Radio, television repairers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Other mechanics and apprentices	.29	.24	.08	.08	.07	.04	.20	.17	.07
Printing trade crafts workers	.06	.06	.07	.01	.01	.03	.15	.20	.31
Compositors and typesetters	.02	.03	.03	.00	.00	.00	.06	.07	.10
Engravers exc photoengravers	.01	.01	.01	.00	.00	.00	.03	.03	.06
Press, plate printers, apprentices	.02	.02	.04	.01	.01	.03	.06	.10	.15
Transport, public util craft wkrs	.07	.08	.06	.03	.03	.04	.03	.02	.01
Locomotive engineers	.03	.04	.04	.01	.01	.02	.00	.00	.00
Power station operators	.02	.01	.01	.01	.01	.01	.01	.01	.01
Telephone installers, repairers	.01	.01	.01	.01	.01	.01	.02	.01	.01
Other crafts, kindred workers	2.39	2.00	2.28	.85	.80	1.22	.35	.37	.62
Crane, derrick, hoist operator	1.80	1.54	2.07	.58	.56	1.04	.11	.10	.21
Decorators, window dressers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Glaziers	.00	.00	.00	.00	.00	.00	.03	.03	.05
Inspectors, lcg and lumber	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.03	.04	.02	.02	.02	.03	.06	.07	.12
Opticians, lens grinder, polisaer	.00	.00	.00	.00	.00	.00	.01	.01	.02
Stationary engineers	.37	.26	.09	.11	.08	.03	.12	.12	.18
Stone cutters, stone carvers	.06	.06	.04	.05	.04	.03	.01	.01	.02
Upholsterers	.00	.00	.00	.02	.01	.02	.00	.00	.00
Other crafts workers	.13	.11	.06	.05	.04	.03	.03	.02	.02
Operatives	41.08	41.19	45.88	43.23	43.23	42.36	59.54	58.78	54.74
Operatives, except transport	19.00	18.20	13.96	33.69	32.87	30.26	57.26	56.17	50.59
Semiskilled metalworking	2.90	2.79	2.82	1.76	1.75	2.16	2.85	2.42	2.51
Drill press operatives	.12	.06	.01	.02	.01	.00	.07	.04	.01
Furnace tendrs, smeltrs, pourers	.05	.05	.06	.16	.17	.24	.60	.70	1.15
Grinding machine operatives	.09	.07	.03	.25	.19	.13	.55	.41	.27
Lathe, milling mach operatives	.29	.18	.07	.10	.06	.03	.66	.43	.30
Metal platers	.00	.00	.00	.02	.02	.01	.15	.11	.03
Other precision mach operators	.02	.01	.01	.07	.05	.02	.08	.05	.03
Punch, stamping press operatives	.10	.07	.02	.14	.09	.03	.35	.25	.12
Welders and flamecutters	2.23	2.35	2.63	1.00	1.16	1.69	.39	.43	.61
Semiskilled packing, inspecting	1.26	1.19	1.11	5.20	5.57	7.34	8.10	8.18	10.44
Checkers, examiners, mfy	.61	.65	.82	1.71	1.93	2.71	4.96	5.12	6.52
Graders and scrters, mfy	.06	.06	.06	1.76	1.85	2.15	.18	.18	.20
Packer, wrapper, exc meat, prodce	.59	.47	.23	1.73	1.79	2.48	2.96	2.88	3.72

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cement, concrete, plaster			Structural clay products			Pottery and related products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	14.84	14.23	10.03	26.73	25.55	20.76	46.31	45.57	37.64
Asbestos,insulation workers	.00	.00	.00	.02	.03	.04	.00	.00	.00
Assemblers	.00	.00	.00	.74	.91	1.46	2.06	2.21	2.67
Blasters	.08	.08	.10	.02	.01	.01	.00	.00	.00
Surveyors' helpers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.31	.29	.21	.44	.45	.44	.67	.68	.76
Drillers, earth	.11	.08	.02	.08	.06	.03	.02	.01	.01
Dyers	.00	.00	.00	.03	.02	.01	.00	.00	.00
Filer,polisher,sander,buffer	.08	.06	.02	.14	.10	.03	.94	.73	.33
Garage wrkr,gas station atten	.07	.04	.01	.04	.03	.02	.00	.00	.00
Laundry,dry cleang oprs,other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mixing operatives	2.55	2.45	1.86	1.40	1.37	1.21	1.30	1.31	1.38
Oilers,greasers,exc automobiles	.67	.65	.61	.30	.33	.47	.10	.10	.11
Painters, mfg articles	.21	.17	.10	.59	.43	.21	3.72	2.93	2.28
Photographic process workers	.03	.03	.02	.00	.00	.00	.03	.04	.06
Riveters and fasteners	.01	.01	.01	.01	.01	.01	.00	.00	.00
Sailors and deckhands	.04	.03	.03	.00	.00	.00	.00	.00	.00
Sawyers	.08	.07	.06	.07	.08	.11	.15	.16	.18
Sewers and stitchers	.03	.02	.03	.03	.03	.03	.06	.06	.08
Furnace tendr,stor,exc metal	.99	.55	.20	4.38	2.78	1.93	1.71	1.10	.87
Winding operatives, other	.03	.03	.02	.02	.01	.01	.10	.09	.05
Miscellaneous machine operatves	5.34	5.31	3.84	11.93	12.41	11.03	13.34	13.94	14.07
Other operatives,exc transport	4.21	4.36	2.89	6.49	6.47	3.71	22.13	22.22	14.81
Transport equipment operatives	22.07	22.99	31.91	9.54	10.36	12.10	2.28	2.60	4.15
Boat operators	.02	.02	.02	.00	.00	.00	.00	.00	.00
Delivery and route workers	1.79	1.63	1.84	.51	.50	.71	.15	.13	.18
Fork lift,tow motor operatives	2.22	2.50	2.27	5.15	6.00	6.32	1.06	1.27	1.57
Rail vehicle operators, other	.02	.02	.03	.08	.08	.11	.00	.00	.00
Railroad brake operators	.05	.07	.15	.00	.00	.00	.00	.00	.00
Railroad switch operators	.06	.07	.11	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.07	.04	.00	.02	.01	.01	.01	.01	.01
Truck drivers	17.85	18.64	27.49	3.79	3.77	4.95	1.06	1.19	2.40
Service workers	1.74	1.37	.57	1.92	1.58	.77	2.34	1.96	1.08
Cleaning service workers	1.29	.96	.29	1.49	1.19	.47	2.00	1.66	.89
Bldg interior cleaners, other	.20	.16	.05	.26	.21	.08	.47	.41	.19
Janitors and sextons	1.09	.80	.25	1.24	.98	.39	1.53	1.25	.70
Food service wrkrs	.02	.02	.01	.02	.02	.03	.00	.00	.00
Cooks,exc private households	.02	.02	.01	.01	.01	.01	.00	.00	.00
Waiters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personal service workers	.03	.03	.03	.03	.03	.03	.02	.02	.04
Elevator operators	.03	.03	.03	.03	.03	.03	.02	.02	.04
Protective service workers	.40	.37	.24	.38	.35	.25	.32	.28	.16
Firefighters	.00	.00	.00	.03	.03	.05	.02	.02	.03
Guards	.40	.37	.24	.36	.32	.20	.29	.24	.11
Police and detectives	.00	.00	.00	.00	.00	.00	.01	.01	.02
Laborers, except farm	7.51	6.67	5.22	22.62	20.09	15.45	7.70	7.03	6.75
Carpenter helpers	.54	.50	.75	.03	.03	.05	.00	.00	.00
Constr labr,exc carpenter helpr	1.78	1.62	1.35	1.20	.84	.24	.16	.10	.02
Freight and material handlers	3.16	2.90	2.21	13.36	12.90	12.29	4.20	4.05	4.38
Garbage collectors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Gardens,groundkeepers,exc farm	.08	.08	.05	.23	.26	.19	.09	.08	.10
Longshore workers, stevedores	.02	.02	.04	.00	.00	.00	.01	.01	.03
Timbercutting, logging workers	.00	.00	.00	.00	.00	.00	.06	.05	.04
Stock handlers	.27	.23	.07	1.69	1.50	.59	.47	.42	.18
Teamsters	.01	.01	.01	.02	.02	.03	.00	.00	.00
Vehicle washers,equip cleaners	.19	.16	.06	.16	.13	.04	.38	.33	.14
Warehouse labcrers, other	.08	.05	.01	.11	.09	.04	.28	.32	.57
Other laborers	1.37	1.09	.66	5.81	4.32	1.96	2.05	1.67	1.31

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc nonmetallc, stone			Primary metal industries			Blast furnaces, steel works		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	7.75	7.91	6.86	6.24	6.70	6.59	6.23	6.76	6.66
Engineers, technical	2.27	2.10	1.91	1.87	1.85	1.85	1.73	1.68	1.60
Chemical	.33	.33	.35	.08	.08	.09	.07	.08	.10
Civil	.06	.05	.08	.10	.08	.09	.15	.12	.15
Electrical	.16	.16	.20	.20	.20	.19	.19	.20	.25
Industrial	.65	.66	.56	.51	.54	.52	.50	.51	.43
Mechanical	.40	.34	.25	.32	.31	.33	.27	.24	.19
Metallurgical	.06	.06	.05	.46	.48	.48	.41	.42	.38
Mining	.01	.01	.01	.01	.01	.00	.01	.01	.00
Sales	.17	.13	.11	.08	.07	.06	.04	.03	.02
Other engineers	.43	.37	.30	.11	.10	.09	.10	.08	.07
Life and physical scientists	.49	.44	.33	.61	.61	.56	.70	.70	.64
Chemists	.43	.38	.21	.58	.58	.53	.68	.68	.60
Geologists	.05	.05	.10	.01	.01	.01	.01	.01	.02
Marine	.01	.01	.01	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Mathematical specialists	.02	.01	.02	.03	.03	.03	.03	.03	.04
Mathematicians	.00	.00	.00	.01	.01	.01	.01	.01	.02
Statisticians	.02	.01	.02	.02	.02	.02	.02	.02	.03
Engineering, science technicians	2.21	2.16	1.97	1.64	1.69	1.89	1.64	1.73	1.94
Agricultural, biologcl, exc health	.01	.01	.01	.00	.00	.00	.00	.00	.00
Chemical technicians	.16	.16	.11	.07	.07	.06	.08	.07	.04
Drafters	.55	.45	.43	.49	.46	.61	.45	.44	.63
Electrical and electronic	.05	.06	.04	.07	.07	.08	.07	.07	.03
Industrial engineering	.15	.19	.20	.10	.14	.17	.09	.12	.15
Mechanical engineering	.04	.04	.02	.11	.12	.14	.19	.23	.26
Surveyors	.02	.02	.03	.01	.01	.01	.01	.01	.01
Other engineering, science tech	1.24	1.24	1.14	.80	.83	.82	.75	.80	.83
Medical workers, exc technicians	.07	.06	.05	.11	.11	.12	.13	.14	.17
Physicians and osteopaths	.00	.00	.00	.01	.01	.01	.02	.01	.01
Registered nurses	.06	.06	.05	.11	.11	.12	.12	.12	.15
Health technolcists, technicians	.02	.02	.01	.01	.01	.00	.01	.01	.00
Other health technicians	.01	.01	.01	.00	.00	.00	.00	.01	.00
Technicians, except health	.04	.05	.04	.04	.05	.07	.03	.05	.07
Airplane pilots	.00	.00	.00	.01	.02	.02	.02	.03	.05
Radio operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.02	.03	.03	.02	.03	.04	.01	.01	.02
Computer specialists	.15	.21	.21	.26	.35	.37	.30	.40	.43
Computer programers	.08	.09	.09	.17	.20	.22	.19	.24	.26
Computer systems analysts	.06	.09	.11	.08	.13	.13	.10	.15	.15
Other computer specialists	.02	.03	.02	.01	.03	.02	.01	.02	.02
Social scientists	.14	.22	.20	.08	.13	.13	.10	.16	.17
Economists	.14	.22	.20	.07	.12	.13	.10	.16	.17
Teachers	.01	.02	.01	.01	.01	.01	.01	.01	.01
Adult education	.01	.02	.01	.01	.01	.01	.01	.01	.01
Writers, artists, entertainers	.61	.68	.45	.14	.17	.16	.12	.14	.12
Designers	.19	.23	.23	.06	.07	.06	.04	.04	.03
Editors and reporters	.00	.00	.00	.01	.01	.01	.01	.01	.02
Painters and sculptors	.34	.36	.15	.00	.01	.01	.00	.00	.00
Photographers	.01	.01	.01	.01	.01	.02	.01	.01	.02
Public relations specialists	.05	.07	.05	.04	.05	.04	.04	.05	.03
Other writers, artists, entertain	.01	.01	.01	.02	.02	.02	.01	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc nonmetallic, stone			Primary metal industries			Blast furnaces, steel works		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.74	1.95	1.69	1.45	1.69	1.40	1.43	1.70	1.49
Accountants	1.05	1.21	1.20	.82	.95	.85	.80	.93	.86
Lawyers	.03	.03	.01	.04	.06	.03	.05	.09	.07
Librarians	.02	.02	.01	.01	.01	.01	.01	.01	.02
Operations and systems research	.18	.25	.22	.19	.28	.25	.20	.31	.30
Personnel, labor relations wkrs	.32	.33	.23	.32	.33	.21	.30	.33	.24
Other research workers	.14	.10	.03	.07	.05	.04	.06	.04	.01
Managers, officials, proprietors	7.13	8.19	8.72	3.43	4.10	4.14	2.07	2.47	2.76
Buyers, sales, loan managers	1.34	1.25	1.17	.73	.73	.82	.51	.49	.51
Bank, financial managers	.13	.12	.09	.08	.09	.09	.04	.04	.04
Credit managers	.07	.04	.04	.04	.03	.03	.04	.03	.03
Purchasing agents, buyers, other	.44	.36	.27	.32	.30	.31	.23	.20	.19
Sales manager, exc retail trade	.71	.73	.77	.29	.32	.40	.20	.22	.26
Other managers, officials, proprts	5.79	6.94	7.56	2.70	3.37	3.32	1.55	1.98	2.25
Office managers, other	.53	.56	.64	.17	.18	.21	.11	.11	.12
Officers, pilots, pursers, saip	.02	.02	.01	.01	.01	.01	.01	.01	.01
Other managers, administrators	5.24	6.36	6.91	2.52	3.18	3.10	1.43	1.85	2.12
Sales workers	2.62	2.72	3.41	.90	.94	1.06	.63	.69	.91
Advertising agents, sales worker	.01	.02	.06	.00	.01	.01	.00	.00	.00
Other sales workers	2.61	2.70	3.35	.89	.94	1.06	.63	.68	.91
Clerical workers	11.94	11.52	11.21	10.21	10.09	9.74	10.98	11.08	11.00
Stenographers, typists, secretaries	3.70	3.59	4.10	2.48	2.42	2.58	2.20	2.18	2.65
Legal secretaries	.01	.01	.01	.01	.01	.01	.02	.02	.02
Medical secretaries	.01	.01	.01	.00	.00	.01	.01	.01	.02
Other secretaries	2.63	2.71	3.29	1.69	1.78	1.99	1.29	1.40	1.86
Stenographers	.10	.04	.00	.11	.05	.01	.14	.07	.02
Typists	.96	.83	.79	.66	.58	.56	.75	.69	.75
Office machine operators	.62	.72	.44	.71	.81	.59	.82	.94	.69
Bookkeeping and billing	.03	.01	.00	.04	.02	.02	.03	.02	.01
Calculating	.02	.01	.01	.03	.02	.02	.04	.02	.01
Computer and peripheral equip	.22	.44	.28	.19	.40	.32	.21	.46	.38
Duplicating	.03	.02	.01	.03	.02	.01	.04	.03	.01
Keypunch	.29	.21	.11	.39	.31	.20	.46	.38	.27
Tabulating	.01	.00	.00	.01	.00	.00	.02	.01	.00
Other office machine operators	.03	.03	.03	.03	.03	.02	.03	.03	.02
Other clerical workers	7.61	7.22	6.67	7.02	6.86	6.57	7.96	7.96	7.65
Billing clerks	.22	.23	.25	.18	.19	.25	.20	.22	.27
Bookkeepers	1.29	1.27	1.34	.85	.85	.84	.75	.78	.91
Cashiers	.03	.04	.04	.03	.03	.03	.03	.03	.02
Clerical supervisors, other	.13	.14	.14	.14	.15	.15	.19	.21	.20
Collectors, bill and account	.01	.01	.01	.00	.00	.00	.00	.00	.00
Counter clerks, exc food	.24	.24	.22	.16	.17	.18	.21	.22	.24
Dispatchers, starters, vehicle	.01	.01	.01	.03	.03	.03	.05	.05	.06
Enumerators and interviewers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Estimators, investigators, other	.29	.31	.17	.19	.22	.14	.20	.22	.13
Expeditors, production controls	.72	.68	.53	.91	.90	.86	1.22	1.20	1.02
File clerks	.18	.15	.15	.17	.15	.16	.19	.18	.22
Insurance adjusters, examiners	.00	.00	.00	.00	.01	.01	.01	.01	.02
Library attendants, assistants	.00	.00	.00	.01	.01	.00	.01	.02	.01
Mail handlers, exc post office	.06	.05	.04	.10	.10	.08	.13	.12	.10
Messengers and office helpers	.02	.02	.01	.02	.02	.02	.03	.02	.02
Payroll, timekeeping clerks	.41	.45	.43	.51	.55	.48	.48	.54	.51
Receptionists	.20	.17	.10	.12	.12	.10	.08	.07	.04
Shipping and receiving clerks	1.32	1.23	1.42	1.04	.97	1.04	.87	.86	1.09
Statistical clerks	.25	.26	.22	.56	.60	.58	.96	1.09	1.10
Stock clerks and store keepers	.81	.60	.27	.69	.57	.43	.67	.51	.25
Telephone operators	.13	.09	.11	.10	.06	.03	.08	.05	.03
Weighers	.30	.27	.17	.37	.35	.29	.48	.44	.28
Misc clerical workers	1.00	.99	1.04	.83	.82	.86	1.13	1.13	1.14
Crafts and kindred workers	21.07	22.49	27.53	29.70	29.59	32.08	33.22	34.17	39.72

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc nonmetallc, stone			Primary metal industries			Blast furnaces, steel works		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	2.88	2.81	3.29	4.65	4.29	4.12	6.28	6.13	6.51
Carpenters and apprentices	.50	.55	.66	.48	.48	.36	.56	.60	.63
Brick,stonemasons, apprentices	.40	.32	.17	.71	.57	.34	1.16	1.00	.64
Bulldozer operators	.26	.25	.42	.35	.29	.29	.61	.52	.45
Cement and concrete finishers	.02	.03	.04	.01	.01	.02	.01	.01	.02
Electricians and apprentices	.87	.93	1.14	1.79	1.82	1.97	2.24	2.44	2.98
Excavating,grading mach operatr	.43	.32	.17	.14	.12	.10	.14	.11	.07
Floor layers, exc tile setters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Painters and apprentices	.00	.00	.00	.14	.13	.10	.14	.12	.06
Plumbers,pipefitters,aprentices	.35	.39	.66	.77	.70	.79	1.06	1.07	1.45
Structural metal craft workers	.00	.00	.00	.24	.17	.14	.33	.24	.22
Tile setters	.04	.03	.02	.00	.00	.01	.00	.00	.00
Blue collar worker supervisors	5.56	6.32	7.79	5.30	5.80	5.76	4.94	5.69	6.87
Metalworkg craft wrkrs,exc meca	3.36	3.65	5.23	9.91	9.83	10.69	8.35	8.79	10.15
Blacksmiths	.03	.02	.00	.10	.07	.02	.10	.07	.02
Boilermakers	.00	.00	.00	.21	.19	.21	.36	.37	.49
Heat treaters, annealers	.00	.00	.00	.63	.62	.61	.51	.54	.62
Forge and hammer operators	.02	.01	.01	.42	.42	.44	.23	.23	.23
Job and die setters, metal	.16	.13	.09	.51	.45	.41	.25	.20	.16
Machinists and apprentices	1.74	2.06	3.28	1.84	1.97	2.25	1.55	1.55	1.36
Millwrights	.62	.73	.98	1.48	1.66	2.07	2.31	2.80	3.85
Molders, metal and apprentices	.00	.00	.00	2.24	2.15	2.20	.39	.39	.52
Pattern and mcldmakers	.10	.07	.08	.31	.24	.28	.08	.07	.11
rollers and finishers,metal	.07	.06	.05	1.27	1.19	1.06	2.11	2.08	1.92
Sheetmetal workers, apprentices	.19	.18	.28	.20	.18	.21	.19	.19	.28
Tool and diemakers, apprentices	.44	.39	.47	.72	.70	.92	.29	.31	.60
Mechanics,repairers,installers	3.94	4.49	5.16	3.71	4.32	5.24	4.13	4.67	5.17
Air cond, heating, refrig meca	.08	.11	.12	.07	.09	.09	.07	.10	.12
Aircraft mechanics	.00	.00	.00	.01	.01	.03	.01	.02	.05
Auto mechanics and apprentices	.30	.24	.14	.20	.18	.14	.21	.18	.12
Data processing mach repairers	.00	.00	.00	.01	.01	.01	.01	.02	.02
Farm implement mechanics	.02	.02	.01	.01	.01	.02	.01	.01	.02
Heavy equip mech, incl diesel	3.21	3.83	4.68	2.68	3.31	4.37	2.70	3.27	3.99
Household appliance mechanics	.01	.01	.01	.02	.03	.02	.02	.02	.02
Loom fixers	.03	.04	.06	.00	.00	.00	.00	.00	.00
Radio, television repairers	.03	.02	.02	.06	.06	.08	.11	.11	.17
Railroad, car shop repairers	.00	.00	.00	.08	.09	.12	.17	.19	.27
Other mechanics and apprentices	.26	.23	.12	.57	.53	.36	.83	.75	.41
Printing trade crafts workers	.07	.09	.13	.10	.11	.14	.13	.15	.25
Compositors and typesetters	.06	.08	.12	.06	.06	.08	.08	.10	.17
Electrotypers and stereotypers	.00	.00	.00	.01	.00	.01	.02	.01	.01
Press,plate printers,aprentices	.00	.00	.00	.03	.04	.05	.03	.04	.06
Transport,public util craft wkrs	.03	.04	.07	.24	.29	.32	.42	.57	.72
Elec pwr line instaler,repairer	.00	.00	.00	.02	.02	.01	.03	.02	.01
Locomotive engineers	.02	.03	.06	.13	.18	.22	.26	.40	.56
Locomotive engineers' helpers	.00	.00	.00	.02	.01	.02	.03	.02	.03
Power station operators	.01	.01	.01	.06	.05	.05	.09	.10	.11
Telephone installers,repairers	.00	.00	.00	.02	.02	.02	.02	.02	.03
Other crafts, kindred workers	5.23	5.08	5.86	5.77	4.95	5.83	8.97	8.19	10.05
Carpet installers	.00	.00	.00	.00	.00	.01	.01	.01	.02
Crane,derrick,hoist operator	1.34	1.21	2.01	4.07	3.33	4.53	6.24	5.43	7.72
Decorators, window dressers	.02	.04	.10	.01	.01	.02	.01	.01	.04
Furniture and wood finishers	.01	.01	.01	.00	.00	.00	.01	.00	.00
Inspectors, other	.12	.15	.21	.88	.98	.90	1.45	1.66	1.65
Jewelers and watchmakers	.03	.02	.01	.01	.01	.01	.00	.00	.00
Shipfitters	.00	.00	.00	.00	.00	.01	.01	.01	.02
Sign painters and letterers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.32	.21	.06	.43	.30	.14	.64	.52	.31
Stone cutters, stone carvers	3.19	3.26	3.36	.00	.00	.00	.00	.00	.00
Tailors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Upholsterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other crafts workers	.18	.15	.09	.35	.29	.20	.58	.51	.28
Operatives	40.68	39.39	36.36	35.21	36.18	35.21	28.56	28.79	24.40
Operatives,except transport	36.13	34.49	30.12	31.83	32.55	31.10	25.40	25.31	20.39

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc nonmetallic, stone			Primary metal industries			Blast furnaces, steel works		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled metalworking	4.44	3.60	3.03	11.40	10.81	10.16	10.14	9.70	7.45
Drill press operatives	.30	.17	.04	.25	.19	.12	.13	.08	.02
Furnace tendrs,smeltrs,pourers	.35	.36	.44	3.92	4.05	3.79	3.52	3.56	2.79
Grinding machine operatives	.54	.39	.22	1.80	1.39	1.13	1.25	.95	.60
Heaters, metal	.00	.00	.00	.43	.39	.31	.66	.64	.57
Lathe,milling mach operatives	.72	.44	.21	.80	.55	.41	.82	.54	.31
Metal platers	.04	.04	.01	.11	.10	.07	.08	.06	.01
Other precision mach operators	.11	.07	.03	.18	.14	.11	.15	.10	.06
Punch, stamping press operatives	1.24	.84	.27	1.00	.87	.77	.52	.37	.13
Solderers	.03	.02	.01	.05	.04	.02	.01	.01	.00
Welders and flamecutters	1.12	1.27	1.81	2.86	3.10	3.43	3.01	3.39	2.95
Semiskilled packing, inspecting	6.04	6.18	7.69	3.33	3.51	3.72	2.10	2.38	2.17
Checkers, examiners, mfg	3.14	3.37	4.43	2.53	2.75	3.00	1.69	1.98	1.72
Graders and scrsters, mfg	.22	.20	.15	.10	.08	.05	.11	.08	.03
Packer, wrapper, exc meat, prode	2.69	2.60	3.10	.71	.67	.67	.31	.32	.43
Other operatives, exc transport	25.64	24.71	19.40	17.11	18.23	17.22	13.16	13.23	10.77
Asbestos, insulation workers	.27	.30	.10	.02	.02	.02	.02	.03	.03
Assemblers	1.36	1.67	2.71	.98	1.24	1.61	.35	.47	.86
Blasters	.02	.02	.05	.01	.01	.02	.01	.01	.03
Cutting operatives, other	1.15	1.13	1.01	1.11	1.13	1.20	1.79	1.86	1.90
Drillers, earth	.18	.12	.03	.05	.05	.04	.02	.02	.01
Filer, polisher, sander, buffer	1.67	1.25	.43	.52	.53	.54	.20	.16	.06
Garage wrkr, gas station atten	.01	.01	.01	.01	.01	.01	.02	.01	.01
Mixing operatives	1.16	1.12	.93	.16	.17	.20	.10	.10	.10
Oilers, greasers, exc automobiles	.29	.26	.19	.32	.29	.27	.40	.41	.48
Painters, mfg articles	.60	.46	.31	.47	.41	.42	.41	.33	.24
Photographic process workers	.04	.04	.05	.03	.03	.04	.02	.03	.04
Riveters and fasteners	.10	.08	.04	.08	.08	.08	.07	.06	.06
Sailors and deckhands	.00	.00	.00	.01	.01	.02	.02	.02	.05
Sawyers	.98	.91	.67	.38	.36	.28	.21	.23	.30
Sewers and stitchers	.28	.24	.27	.02	.02	.04	.01	.01	.03
Furnace tendr, stokr, exc metal	1.13	.62	.23	.41	.26	.20	.46	.32	.31
Winding operatives, other	.31	.26	.12	.43	.44	.49	.23	.20	.09
Miscellaneous machine operatives	10.74	10.93	9.29	7.21	7.95	7.69	4.05	4.18	3.49
Other operatives, exc transport	5.39	5.28	2.98	4.91	5.23	4.07	4.77	4.78	2.72
Transport equipment operatives	4.55	4.90	6.24	3.37	3.63	4.11	3.15	3.48	4.00
Boat operators	.01	.01	.00	.00	.00	.00	.01	.01	.01
Bus drivers	.00	.00	.00	.01	.02	.01	.02	.04	.02
Delivery and route workers	.18	.18	.26	.11	.10	.11	.08	.08	.07
Fork lift, tow motor operatives	1.91	2.20	2.29	1.44	1.81	2.08	.94	1.13	1.08
Rail vehicle operators, other	.02	.02	.01	.13	.12	.11	.24	.27	.27
Parking attendants	.01	.01	.01	.00	.00	.12	.00	.00	.34
Railroad brake operators	.05	.07	.17	.13	.15	.25	.26	.32	.54
Railroad switch operators	.05	.05	.07	.26	.27	.28	.53	.60	.58
Taxicab drivers, chauffeurs	.08	.08	.05	.06	.05	.02	.06	.06	.03
Truck drivers	2.24	2.29	3.38	1.23	1.10	1.13	1.03	.99	1.06
Service workers	2.37	1.97	1.14	2.69	2.42	2.18	2.93	2.59	2.88
Cleaning service workers	1.70	1.33	.52	1.81	1.59	1.44	1.90	1.60	1.93
Bldg interior cleaners, other	.26	.20	.06	.34	.31	.35	.45	.40	.57
Janitors and sextons	1.44	1.13	.47	1.47	1.28	1.09	1.45	1.20	1.36
Food service workers	.07	.06	.04	.08	.06	.05	.11	.08	.09
Cooks, exc private households	.02	.02	.01	.02	.02	.01	.03	.02	.02
Dishwashers	.00	.00	.00	.01	.01	.01	.02	.02	.02
Food counter, fountain workers	.02	.02	.02	.01	.01	.01	.01	.01	.02
Waiters	.01	.01	.01	.03	.01	.01	.05	.03	.02
Other food serv wkrs, exc privt	.02	.02	.01	.01	.01	.01	.01	.01	.01
Health service workers	.03	.03	.06	.01	.01	.01	.02	.01	.02
Health aides, except nursing	.01	.01	.01	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.02	.02	.05	.01	.00	.01	.02	.01	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc nonmetallic, stone			Primary metal industries			Blast furnaces, steel works		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.02	.02	.01	.02	.02	.02	.02	.02	.03
Attendants, personal serv, other	.00	.00	.00	.01	.00	.00	.01	.01	.01
Elevator operators	.02	.02	.01	.01	.01	.02	.01	.01	.02
Protective service workers	.55	.54	.51	.76	.74	.66	.88	.87	.81
Firefighters	.02	.01	.01	.02	.02	.03	.04	.04	.05
Guards	.52	.52	.49	.71	.70	.63	.81	.81	.75
Police and detectives	.01	.01	.01	.02	.02	.01	.03	.03	.01
Laborers, except farm	6.45	5.81	4.77	11.63	9.99	8.99	15.39	13.46	11.69
Carpenter helpers	.08	.07	.12	.07	.06	.06	.05	.04	.04
Constr labr, exc carpenter helpr	.44	.40	.39	.71	.53	.40	1.11	.83	.69
Freight and material handlers	2.55	2.40	2.20	2.43	2.35	2.34	3.22	3.14	3.03
Gardenrs, groundkeepers, exc farm	.07	.07	.05	.05	.06	.07	.05	.05	.06
Longshore workers, stevedores	.00	.00	.00	.01	.00	.01	.01	.01	.01
Stock handlers	.65	.64	.40	.19	.19	.16	.19	.19	.17
Teamsters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Vehicle washers, equip cleaners	.23	.19	.07	.29	.27	.16	.25	.21	.06
Warehouse labcrers, other	.26	.24	.22	.09	.08	.07	.09	.08	.08
Other laborers	2.18	1.79	1.31	7.79	6.44	5.73	10.42	8.90	7.55

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other primary steel			Primary aluminum			Other primary nonferrous		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.79	5.07	5.21	7.65	8.18	8.22	7.65	8.02	7.61
Engineers, technical	1.46	1.40	1.36	2.63	2.65	3.03	2.36	2.31	2.30
Chemical	.04	.04	.05	.11	.11	.11	.13	.12	.11
Civil	.05	.04	.06	.12	.09	.08	.04	.03	.03
Electrical	.09	.09	.10	.35	.32	.24	.29	.26	.20
Industrial	.45	.45	.33	.55	.66	.94	.62	.67	.73
Mechanical	.25	.25	.31	.67	.64	.72	.32	.31	.35
Metallurgical	.34	.33	.33	.61	.64	.71	.70	.71	.72
Mining	.00	.00	.00	.01	.01	.01	.01	.01	.01
Sales	.12	.10	.09	.11	.09	.07	.12	.09	.07
Other engineers	.12	.10	.09	.09	.10	.15	.13	.11	.09
Life and physical scientists	.38	.38	.32	.57	.57	.49	.78	.80	.87
Atmospheric and space	.01	.01	.01	.01	.01	.01	.00	.00	.00
Biological	.00	.00	.00	.00	.00	.00	.01	.01	.01
Chemists	.37	.37	.31	.53	.53	.45	.70	.73	.80
Geologists	.00	.00	.00	.01	.01	.01	.05	.04	.03
Physicists and astronomers	.00	.00	.00	.02	.02	.01	.02	.02	.03
Mathematical specialists	.01	.01	.01	.04	.04	.05	.03	.03	.04
Mathematicians	.00	.00	.00	.02	.01	.01	.01	.01	.01
Statisticians	.01	.01	.01	.02	.03	.04	.02	.02	.03
Engineering, science technicians	1.32	1.32	1.67	1.80	1.81	1.90	2.06	2.10	2.15
Chemical technicians	.04	.03	.01	.05	.06	.07	.10	.12	.16
Drafters	.51	.49	.70	.65	.57	.63	.41	.36	.42
Electrical and electronic	.04	.04	.05	.06	.09	.14	.10	.13	.20
Industrial engineering	.10	.13	.14	.12	.17	.24	.12	.17	.23
Mechanical engineering	.07	.07	.07	.03	.05	.10	.03	.04	.06
Surveyors	.01	.01	.02	.01	.01	.01	.01	.01	.01
Other engineering, science tech	.56	.56	.68	.88	.87	.71	1.29	1.28	1.08
Medical workers, exc technicians	.09	.09	.10	.09	.09	.09	.12	.12	.11
Physicians and osteopaths	.00	.00	.00	.01	.01	.02	.00	.00	.00
Registered nurses	.09	.09	.10	.08	.08	.08	.12	.12	.11
Technicians, except health	.03	.04	.04	.05	.06	.08	.06	.08	.11
Airplane pilots	.01	.01	.01	.01	.01	.01	.01	.01	.01
Tool programmers, numerical	.01	.01	.01	.02	.02	.02	.00	.00	.00
Other technicians except health	.01	.02	.02	.02	.03	.05	.05	.07	.10
Computer specialists	.15	.20	.20	.38	.52	.62	.29	.37	.36
Computer programmers	.11	.13	.13	.21	.24	.28	.19	.23	.23
Computer systems analysts	.03	.05	.05	.15	.23	.29	.08	.12	.12
Other computer specialists	.01	.02	.03	.03	.06	.05	.01	.02	.01
Social scientists	.04	.06	.05	.09	.15	.20	.08	.14	.15
Economists	.04	.06	.05	.09	.15	.20	.07	.12	.14
Psychologists	.00	.00	.00	.00	.00	.00	.01	.02	.02
Teachers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Adult education	.01	.01	.01	.01	.01	.01	.01	.01	.01
Writers, artists, entertainers	.14	.16	.16	.24	.31	.29	.15	.16	.12
Designers	.06	.07	.07	.11	.13	.10	.08	.09	.07
Editors and reporters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Painters and sculptors	.00	.00	.00	.02	.05	.07	.00	.00	.00
Photographers	.02	.02	.03	.00	.00	.00	.01	.01	.01
Public relations specialists	.03	.05	.05	.06	.08	.06	.02	.02	.01
Other writers, artists, entertain	.01	.01	.01	.03	.04	.04	.03	.04	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other primary steel			Primary aluminum			Other primary nonferrous		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.19	1.41	1.29	1.76	1.97	1.49	1.72	1.89	1.39
Accountants	.70	.84	.88	1.00	1.10	.82	.97	1.06	.82
Architects	.00	.00	.00	.02	.02	.04	.00	.00	.00
Lawyers	.02	.04	.03	.05	.06	.00	.03	.03	.01
Librarians	.01	.01	.01	.01	.01	.01	.01	.01	.01
Operations and systems research	.15	.21	.18	.21	.32	.29	.23	.31	.26
Personnel, labor relations wks	.29	.29	.17	.36	.38	.25	.37	.37	.21
Other research workers	.02	.01	.03	.11	.10	.08	.11	.10	.09
Managers, officials, proprietors	3.98	4.89	5.13	4.57	5.16	5.28	5.13	5.46	4.26
Buyers, sales, loan managers	.76	.72	.67	.92	.93	1.13	1.10	1.12	1.43
Bank, financial managers	.09	.10	.09	.10	.10	.11	.16	.16	.15
Credit managers	.04	.03	.02	.06	.03	.03	.05	.03	.02
Purchasing agents, buyers, other	.33	.27	.21	.39	.37	.46	.49	.47	.62
Sales manager, exc retail trade	.30	.32	.35	.38	.43	.53	.40	.46	.65
Other managers, officials, propts	3.22	4.17	4.46	3.64	4.23	4.16	4.03	4.34	2.83
Office managers, other	.23	.24	.27	.16	.17	.20	.21	.23	.29
Restaurant, cafe, bar, managers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	2.97	3.92	4.19	3.47	4.04	3.95	3.81	4.10	2.53
Sales workers	.93	1.03	1.42	1.22	1.19	1.13	1.29	1.14	.72
Advertising agents, sales worker	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other sales workers	.93	1.02	1.40	1.22	1.19	1.13	1.28	1.13	.71
Clerical workers	8.63	8.42	7.76	9.92	9.79	9.09	11.09	10.93	11.15
Stenographers, typists, secretaries	2.08	2.01	2.14	3.14	2.96	2.62	3.39	3.18	3.16
Legal secretaries	.01	.01	.01	.00	.00	.00	.01	.01	.01
Medical secretaries	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other secretaries	1.48	1.50	1.64	2.45	2.45	2.26	2.52	2.50	2.65
Stenographers	.09	.05	.01	.12	.05	.00	.09	.04	.00
Typists	.50	.46	.48	.56	.47	.34	.76	.63	.50
Office machine operators	.49	.55	.37	.66	.82	.66	.83	.93	.74
Bookkeeping and billing	.04	.02	.01	.00	.00	.00	.06	.03	.05
Calculating	.03	.02	.02	.02	.02	.04	.03	.02	.03
Computer and peripheral equip	.13	.29	.24	.20	.43	.34	.21	.45	.35
Duplicating	.01	.01	.01	.02	.01	.02	.02	.02	.03
Key punch	.25	.19	.08	.39	.32	.23	.46	.37	.25
Tabulating	.01	.00	.00	.01	.00	.00	.01	.00	.00
Other office machine operators	.02	.02	.01	.03	.03	.04	.04	.04	.02
Other clerical workers	6.06	5.87	5.25	6.12	6.01	5.81	6.87	6.81	7.25
Billing clerks	.17	.18	.22	.11	.13	.17	.19	.22	.34
Bookkeepers	.83	.85	.78	.88	.83	.70	1.09	1.03	.89
Cashiers	.04	.04	.03	.03	.03	.01	.03	.04	.06
Clerical supervisors, other	.06	.07	.07	.11	.14	.17	.14	.17	.20
Counter clerks, exc food	.13	.14	.14	.11	.13	.16	.11	.12	.15
Dispatchers, starters, vehicle	.03	.03	.02	.00	.00	.00	.01	.01	.01
Enumerators and interviewers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Estimators, investigators, other	.22	.24	.13	.20	.23	.17	.14	.17	.16
Expeditors, production controls	.08	.64	.45	.72	.82	1.07	.65	.75	1.08
File clerks	.12	.11	.13	.14	.11	.08	.20	.16	.15
Insurance adjusters, examiners	.00	.00	.00	.00	.00	.00	.01	.01	.02
Library attendants, assistants	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mail handlers, exc post office	.08	.07	.05	.12	.11	.09	.08	.08	.10
Messengers and office helpers	.02	.02	.02	.00	.00	.00	.03	.02	.02
Payroll, timekeeping clerks	.62	.69	.64	.42	.43	.28	.48	.47	.29
Receptionists	.15	.13	.09	.18	.18	.19	.17	.16	.17
Shipping and receiving clerks	1.10	1.06	1.27	1.00	.81	.49	1.37	1.18	.97
Statistical clerks	.25	.28	.25	.23	.25	.23	.31	.35	.39
Stock clerks and store keepers	.71	.54	.26	.65	.61	.66	.76	.72	.87
Telephone operators	.10	.06	.03	.15	.08	.03	.14	.08	.04
Weighers	.20	.18	.10	.34	.38	.48	.36	.39	.51
Misc clerical workers	.55	.55	.57	.69	.73	.83	.62	.67	.84
Crafts and kindred workers	29.86	30.56	33.70	26.43	25.12	24.93	22.96	21.91	20.31

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other primary steel			Primary aluminum			Other primary nonferrous		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	3.26	3.09	3.03	3.90	3.48	3.11	3.43	2.98	2.18
Carpenters and apprentices	.36	.42	.32	.58	.46	.16	.42	.31	.08
Brick,stonemasons, apprentices	.51	.34	.07	.34	.34	.38	.20	.19	.19
Bulldozer operators	.19	.16	.13	.07	.09	.19	.16	.17	.34
Cement and concrete finishers	.01	.01	.02	.02	.02	.01	.01	.01	.00
Electricians and apprentices	1.13	1.24	1.56	1.87	1.80	1.90	1.69	1.48	.83
Excavating,grading mach operatr	.14	.11	.06	.07	.06	.06	.20	.19	.27
Painters and apprentices	.14	.12	.06	.18	.19	.24	.11	.11	.12
Plumbers,pipefitters,aprentices	.47	.47	.60	.70	.48	.14	.59	.49	.33
Roofers and slaters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Structural metal craft workers	.31	.22	.17	.06	.04	.03	.03	.02	.01
Tile setters	.01	.01	.03	.00	.00	.00	.01	.00	.00
Blue collar worker supervisors	5.34	6.19	6.25	6.09	5.64	4.17	5.60	5.54	4.00
Metalworkg craft wrkrs,exc meca	13.81	13.46	14.52	8.82	8.22	8.32	8.15	7.46	7.02
Blacksmiths	.15	.12	.05	.06	.03	.00	.05	.03	.00
Boilermakers	.11	.11	.11	.02	.01	.01	.11	.08	.03
Heat treaters, annealers	1.02	1.03	1.07	.36	.30	.12	.47	.37	.14
Forge and hammer operators	.93	.93	.93	.20	.19	.16	.21	.21	.20
Job and die setters, metal	.54	.42	.25	.78	.73	.89	.92	.79	.79
Machinists and apprentices	1.96	2.20	2.91	2.02	2.17	2.51	2.22	2.33	2.64
Millwrights	1.02	1.20	1.52	1.00	.99	1.05	.50	.51	.42
Molders, metal and apprentices	5.60	5.24	5.21	1.92	1.65	1.29	1.54	1.31	1.01
Pattern and mclmakers	.77	.60	.69	.25	.17	.09	.14	.10	.07
Rollers and finishers,metal	.78	.74	.58	.56	.58	.66	.49	.50	.55
Sheetmetal workers, apprentices	.14	.14	.19	.21	.16	.18	.33	.25	.13
Tool and diemakers, apprentices	.79	.74	1.02	1.45	1.26	1.36	1.17	1.00	1.05
Mechanics,repairers,installers	3.08	3.65	4.53	4.35	5.26	6.92	3.25	3.92	5.35
Air cond, heating, refrig meca	.03	.04	.03	.12	.15	.14	.09	.11	.10
Aircraft mechanics	.01	.01	.03	.01	.01	.01	.01	.01	.01
Auto body repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.19	.16	.10	.24	.22	.21	.16	.16	.20
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.03	.04	.07	.01	.01	.01
Heavy equip mech, incl diesel	2.53	3.13	4.16	3.14	3.97	5.62	2.55	3.18	4.56
Household appliance mechanics	.00	.00	.00	.07	.07	.08	.03	.04	.04
Radio, television repairers	.03	.03	.05	.03	.02	.00	.01	.01	.01
Railroad, car shop repairers	.03	.04	.06	.00	.00	.00	.02	.02	.05
Other mechanics and apprentices	.26	.22	.11	.72	.78	.81	.35	.38	.37
Printing trade crafts workers	.08	.09	.12	.09	.07	.02	.09	.08	.03
Compositors and typesetters	.04	.04	.06	.05	.03	.01	.05	.04	.00
Engravers exc photoengravers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Press,plate printers,aprentices	.03	.04	.06	.03	.02	.01	.03	.03	.03
Transport,public util craft wrkrs	.11	.14	.11	.05	.04	.01	.16	.16	.12
Elec pwr line instaler,repairer	.01	.01	.01	.00	.00	.00	.02	.02	.01
Locomotive engineers	.05	.08	.07	.00	.00	.00	.03	.03	.01
Locomotive engineers' helpers	.01	.01	.02	.00	.00	.00	.01	.01	.01
Power station operators	.03	.03	.02	.03	.03	.01	.03	.02	.01
Telephone installers,repairers	.01	.01	.01	.00	.00	.00	.05	.05	.06
Telephone line instaln,splicers	.00	.00	.00	.00	.00	.00	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other primary steel			Primary aluminum			Other primary nonferrous		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	4.18	3.95	5.13	3.13	2.41	2.39	2.28	1.77	1.61
Bakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cabinetmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	3.11	2.76	4.16	2.29	1.64	1.80	1.47	1.16	1.17
Decorators, window dressers	.01	.02	.01	.00	.00	.00	.00	.00	.00
Glaziers	.01	.01	.01	.02	.02	.01	.01	.01	.01
Inspectors, log and lumber	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.65	.83	.78	.45	.49	.41	.16	.14	.06
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.02	.02	.01
Opticians,lens grinder,polisher	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.20	.15	.07	.28	.16	.03	.37	.18	.01
Other crafts workers	.17	.14	.06	.09	.09	.13	.24	.26	.34
Operatives	37.14	37.29	35.91	41.94	42.60	44.09	43.88	44.88	47.83
Operatives,except transport	33.78	33.51	31.58	37.78	38.57	39.45	40.48	41.49	44.25
Semiskilled metalworking	14.38	13.48	13.75	10.30	9.75	9.59	10.37	9.71	9.62
Drill press operatives	.31	.21	.10	.37	.31	.30	.34	.26	.23
Furnace tendrs,smeltrs,pourers	3.98	4.28	4.48	4.36	4.36	3.97	4.52	4.46	4.34
Grinding machine operatives	3.35	2.47	1.95	1.16	.97	.95	1.07	.89	.88
Heaters, metal	.46	.43	.34	.09	.06	.01	.07	.05	.01
Lathe,milling mach operatives	.95	.63	.38	.58	.45	.49	.69	.53	.61
Metal platers	.10	.07	.01	.04	.05	.06	.25	.27	.27
Other precisich mach operators	.23	.15	.07	.19	.16	.22	.19	.16	.19
Punch,stamping press operatives	1.14	.86	.40	1.78	1.69	2.08	1.40	1.31	1.63
Solderers	.02	.02	.00	.01	.01	.01	.22	.19	.10
Welders and flamecutters	3.85	4.36	6.03	1.72	1.70	1.50	1.64	1.59	1.38
Semiskilled packing, inspecting	3.55	3.75	4.80	4.65	4.24	3.62	5.12	4.89	4.88
Checkers, examiners, mfg	2.85	3.00	3.68	2.96	2.96	3.10	3.78	3.79	4.21
Graders and sorters, mfg	.10	.10	.10	.03	.02	.01	.13	.10	.02
Packer,wrapper,exc meat,prodce	.60	.65	1.02	1.66	1.26	.52	1.21	1.00	.65
Other operatives, exc transport	15.85	16.28	13.03	22.84	24.58	26.25	24.99	26.89	29.74
Asbestos,insulation workers	.01	.02	.01	.01	.02	.01	.01	.01	.01
Assemblers	1.18	1.59	1.99	1.39	1.52	1.74	1.92	2.05	2.26
Blasters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Cutting operatives, other	.00	.00	.00	1.05	1.11	1.25	1.25	1.39	1.85
Drillers, earth	.06	.05	.02	.06	.06	.08	.08	.09	.13
Dyers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Filer,polisher,sander,buffer	.37	.27	.08	1.26	1.32	1.67	1.05	1.09	1.41
Garage wrkr,gas station atten	.01	.01	.01	.01	.01	.01	.00	.00	.00
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.00	.01	.01	.01
Mixing operatives	.18	.19	.17	.08	.09	.12	.32	.35	.49
Oilers,greasers,exc automobiles	.23	.24	.26	.27	.18	.03	.27	.19	.05
Painters, mfg articles	.42	.35	.26	.69	.65	.84	.51	.49	.71
Photographic process workers	.04	.04	.05	.04	.03	.01	.02	.02	.04
Riveters and fasteners	.10	.10	.07	.09	.10	.12	.06	.06	.09
Sawyers	.24	.26	.33	1.10	.86	.28	.53	.41	.14
Sewers and stitchers	.02	.02	.03	.02	.02	.02	.04	.04	.10
Furnace tendr,stokr,exc metal	.28	.20	.20	.43	.23	.07	.47	.25	.07
Winding operatives, other	.23	.20	.10	.12	.14	.19	1.46	1.60	2.10
Miscellaneous machine operatives	7.84	8.10	6.77	11.13	12.37	13.68	11.30	12.17	12.79
Other operatives,exc transport	4.61	4.64	2.67	5.07	5.87	6.12	5.65	6.62	7.46
Transport equipment operatives	3.36	3.77	4.33	4.16	4.03	4.64	3.40	3.39	3.59
Delivery and route workers	.15	.15	.23	.13	.10	.06	.09	.07	.04
Fork lift,tow motor operatives	1.60	1.90	2.09	2.31	2.83	3.36	1.84	2.31	3.03
Rail vehicle operators, other	.04	.04	.05	.00	.00	.00	.08	.05	.01
Railroad brake operators	.03	.04	.05	.00	.00	.00	.06	.09	.21
Railroad switch operators	.08	.09	.13	.01	.01	.03	.07	.09	.16
Taxicab drivers, chauffeurs	.06	.05	.02	.05	.04	.01	.09	.05	.00
Truck drivers	1.40	1.51	1.77	1.65	1.04	1.18	1.17	.73	.14
Service workers	2.56	2.30	1.66	2.56	2.41	1.98	2.39	2.25	1.89
Cleaning service workers	1.81	1.58	1.05	1.81	1.69	1.37	1.60	1.48	1.20
Bldg interior cleaners, other	.28	.23	.20	.29	.29	.28	.23	.24	.23
Janitors and sextons	1.53	1.35	.85	1.52	1.39	1.09	1.37	1.25	.97

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other primary steel			Primary aluminum			Other primary nonferrous		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.06	.04	.03	.07	.06	.04	.06	.05	.04
Cooks,exc private households	.02	.01	.01	.03	.02	.01	.02	.01	.00
Food counter,fountain workers	.01	.00	.00	.02	.02	.02	.01	.01	.02
Waiters	.02	.01	.01	.01	.01	.01	.00	.00	.00
Other food serv wkrs,exc privt	.01	.01	.01	.01	.01	.01	.02	.02	.02
Health service workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Practical nurses	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.02	.02	.02	.02	.02	.03	.03	.03	.02
Elevator operators	.01	.01	.01	.01	.01	.01	.02	.02	.02
Housekeepers, exc private homes	.01	.01	.01	.01	.01	.01	.01	.00	.00
Protective service workers	.66	.65	.56	.65	.64	.54	.71	.69	.63
Firefighters	.01	.01	.02	.01	.01	.01	.01	.01	.01
Guards	.63	.62	.54	.63	.62	.53	.67	.66	.62
Police and detectives	.01	.01	.00	.01	.01	.01	.02	.01	.01
Laborers, except farm	12.13	10.45	9.21	5.72	5.57	5.28	5.61	5.42	6.23
Carpenter helpers	.06	.06	.09	.13	.10	.10	.08	.05	.04
Constr labr,exc carpenter helpr	.39	.29	.10	.39	.36	.33	.47	.43	.40
Freight and material handlers	1.92	1.86	1.76	1.96	2.05	2.00	1.63	1.71	2.26
Gardenrs,groundkeepers,exc farm	.04	.04	.05	.08	.09	.10	.05	.06	.08
Longshore workers, stevedores	.00	.00	.00	.01	.01	.01	.00	.00	.00
Stock handlers	.17	.16	.07	.16	.18	.19	.23	.26	.26
Teamsters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Vehicle washers,equip cleaners	.37	.31	.10	.25	.28	.28	.30	.33	.35
Warehouse labcrers, other	.10	.10	.10	.06	.04	.01	.13	.09	.03
Other laborers	9.08	7.64	6.94	2.67	2.46	2.24	2.73	2.49	2.80

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fabricated metal products			Cutlery and other hardware			Fabricated structural metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	6.00	6.10	5.41	5.48	5.94	5.72	7.43	7.09	5.74
Engineers, technical	1.96	1.83	1.67	1.90	1.93	2.16	2.25	1.90	1.27
Chemical	.03	.03	.02	.02	.03	.06	.03	.02	.01
Civil	.12	.08	.04	.03	.03	.04	.30	.20	.10
Electrical	.12	.12	.14	.05	.06	.08	.20	.21	.23
Industrial	.52	.59	.65	.62	.66	.64	.42	.41	.24
Mechanical	.63	.55	.40	.97	.98	1.16	.62	.54	.35
Metallurgical	.09	.10	.10	.03	.03	.05	.11	.11	.08
Sales	.16	.09	.03	.05	.02	.00	.23	.14	.04
Other engineers	.29	.27	.30	.14	.12	.12	.34	.29	.22
Life and physical scientists	.13	.14	.13	.09	.08	.04	.12	.12	.11
Atmospheric and space	.00	.01	.01	.01	.01	.01	.01	.01	.02
Chemists	.12	.12	.10	.08	.07	.03	.08	.07	.03
Physicists and astronomers	.01	.01	.02	.00	.00	.00	.02	.03	.04
Other life, physical scientists	.00	.00	.01	.00	.00	.00	.01	.01	.02
Mathematical specialists	.01	.01	.02	.03	.03	.04	.01	.01	.01
Statisticians	.01	.01	.02	.03	.03	.04	.01	.01	.01
Engineering, science technicians	1.83	1.69	1.60	1.11	1.03	.93	3.04	2.66	2.31
Chemical technicians	.02	.02	.03	.01	.01	.01	.02	.02	.01
Drafters	1.28	1.11	1.11	.69	.59	.58	2.47	2.11	1.94
Electrical and electronic	.06	.06	.06	.04	.05	.06	.06	.05	.01
Industrial engineering	.07	.09	.07	.10	.10	.05	.05	.05	.01
Mechanical engineering	.02	.03	.03	.01	.01	.01	.03	.02	.01
Other engineering, science techn	.38	.38	.29	.27	.27	.22	.42	.42	.33
Medical workers, exc technicians	.06	.05	.03	.08	.08	.10	.04	.04	.03
Registered nurses	.06	.05	.03	.07	.08	.10	.03	.03	.03
Technicians, except health	.03	.04	.05	.04	.05	.05	.03	.04	.04
Airplane pilots	.01	.01	.01	.00	.00	.00	.00	.00	.00
Tool programmers, numerical	.01	.01	.01	.02	.02	.01	.02	.02	.02
Other technicians except health	.01	.02	.03	.02	.03	.04	.01	.02	.03
Computer specialists	.21	.27	.25	.29	.39	.34	.20	.27	.23
Computer programmers	.14	.17	.15	.18	.20	.18	.14	.16	.14
Computer systems analysts	.05	.08	.08	.10	.14	.11	.05	.08	.08
Other computer specialists	.01	.02	.02	.02	.05	.05	.01	.02	.01
Social scientists	.07	.12	.13	.14	.22	.21	.06	.09	.09
Economists	.07	.12	.13	.14	.22	.21	.06	.09	.09
Teachers	.02	.02	.01	.00	.00	.00	.02	.02	.01
Adult education	.02	.02	.01	.00	.00	.00	.02	.02	.01
Writers, artists, entertainers	.26	.31	.28	.30	.39	.45	.23	.28	.27
Designers	.15	.18	.14	.19	.25	.29	.14	.17	.14
Editors and reporters	.01	.01	.01	.03	.04	.05	.00	.00	.00
Painters and sculptors	.03	.04	.04	.00	.00	.00	.03	.03	.01
Photographers	.02	.01	.02	.00	.00	.00	.01	.01	.03
Public relations specialists	.04	.05	.05	.06	.09	.10	.04	.06	.07
Other writers, artists, entertain	.01	.02	.02	.01	.01	.01	.01	.01	.01
Other professional and technical	1.42	1.62	1.25	1.50	1.74	1.42	1.44	1.66	1.38
Accountants	.88	.97	.75	.87	1.00	.84	.97	1.14	1.06
Architects	.01	.01	.00	.00	.00	.00	.02	.01	.00
Lawyers	.02	.03	.01	.01	.01	.01	.02	.04	.02
Operations and systems research	.17	.25	.22	.20	.29	.25	.12	.16	.12
Personnel, labor relations wkrs	.31	.34	.24	.37	.41	.31	.28	.29	.17
Other research workers	.04	.03	.02	.05	.04	.02	.03	.02	.00
Managers, officials, proprietors	6.72	7.54	6.88	6.33	7.42	8.00	7.79	9.02	8.88
Buyers, sales, loan managers	1.34	1.34	1.47	1.56	1.55	1.71	1.54	1.39	1.12
Bank, financial managers	.12	.12	.10	.16	.16	.14	.14	.12	.06
Credit managers	.07	.04	.04	.09	.06	.08	.08	.05	.06
Purchasing agents, buyers, other	.62	.57	.60	.58	.53	.54	.74	.62	.41
Sales manager, exc retail trade	.54	.60	.74	.72	.80	.97	.58	.60	.58

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fabricated metal products			Cutlery and other hardware			Fabricated structural metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers, officials, proprs	5.38	6.21	5.41	4.77	5.88	6.28	6.25	7.63	7.76
Office managers, other	.34	.37	.42	.28	.29	.30	.39	.40	.37
Restaurant, cafe, bar, managers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Other managers, administrators	5.03	5.83	4.98	4.49	5.59	5.98	5.86	7.22	7.37
Sales workers	1.76	1.68	1.49	2.58	2.83	3.80	1.94	1.92	1.79
Advertising agents, sales worker	.01	.01	.02	.01	.01	.01	.01	.01	.02
Other sales workers	1.75	1.67	1.47	2.57	2.82	3.79	1.93	1.91	1.77
Clerical workers	11.94	11.78	11.16	14.19	13.64	12.29	11.50	11.28	10.00
Stenographers, typists, secretaries	3.37	3.30	3.43	3.85	3.51	2.86	3.23	3.23	3.51
Legal secretaries	.01	.01	.01	.01	.01	.01	.01	.01	.02
Medical secretaries	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other secretaries	2.53	2.61	2.87	2.70	2.64	2.35	2.57	2.68	3.02
Stenographers	.09	.04	.01	.10	.04	.00	.08	.04	.01
Typists	.75	.64	.54	1.03	.82	.48	.57	.51	.47
Office machine operators	.67	.73	.51	1.06	1.01	.58	.57	.59	.35
Bookkeeping and billing	.07	.04	.03	.09	.04	.02	.06	.02	.01
Calculating	.03	.02	.02	.06	.04	.03	.03	.02	.01
Computer and peripheral equip	.16	.36	.28	.18	.38	.26	.14	.30	.23
Duplicating	.02	.02	.02	.03	.03	.04	.01	.01	.01
Key punch	.35	.27	.14	.62	.46	.20	.30	.22	.08
Tabulating	.01	.00	.01	.02	.01	.00	.01	.00	.01
Other office machine operators	.03	.03	.02	.06	.05	.03	.02	.02	.01
Other clerical workers	7.90	7.75	7.22	9.28	9.12	8.85	7.69	7.46	6.15
Billing clerks	.21	.24	.32	.28	.31	.40	.16	.17	.21
Bookkeepers	1.37	1.35	1.25	1.37	1.33	1.12	1.55	1.53	1.47
Cashiers	.02	.02	.03	.02	.02	.01	.01	.01	.03
Clerical supervisors, other	.11	.13	.13	.11	.13	.15	.14	.16	.13
Collectors, bill and account	.00	.00	.00	.02	.02	.01	.00	.00	.00
Counter clerks, exc food	.18	.20	.23	.31	.33	.36	.13	.13	.13
Dispatchers, starters, vehicle	.02	.02	.02	.02	.01	.01	.03	.03	.03
Estimators, investigators, other	.46	.53	.36	.18	.20	.14	.94	1.01	.50
Expeditors, production controls	.71	.76	.83	.85	.90	.99	.65	.61	.40
File clerks	.20	.16	.14	.33	.26	.16	.15	.13	.11
Mail handlers, exc post office	.08	.08	.08	.17	.16	.15	.06	.06	.05
Messengers and office helpers	.02	.02	.01	.03	.02	.01	.02	.02	.01
Payroll, timekeeping clerks	.52	.55	.42	.94	1.03	.89	.39	.44	.41
Receptionists	.24	.22	.17	.34	.31	.22	.24	.20	.10
Shipping and receiving clerks	1.58	1.35	1.11	2.11	2.05	2.45	1.14	1.08	1.14
Statistical clerks	.22	.25	.26	.34	.38	.35	.20	.22	.17
Stock clerks and store keepers	.91	.81	.74	1.00	.83	.55	.65	.48	.19
Telephone operators	.13	.07	.03	.12	.07	.02	.10	.06	.02
Weighers	.08	.08	.09	.08	.07	.04	.06	.06	.05
Misc clerical workers	.85	.90	1.00	.67	.71	.81	1.08	1.07	1.02
Crafts and kindred workers	23.98	23.23	23.68	21.26	22.30	27.14	26.94	26.01	27.98
Construction crafts workers	3.15	2.74	2.53	1.36	1.29	1.17	6.02	4.96	4.43
Carpenters and apprentices	.35	.36	.35	.29	.30	.28	.63	.70	.78
Brick, stonemasons, apprentices	.13	.11	.09	.03	.02	.01	.11	.08	.02
Bulldozer operators	.06	.06	.10	.00	.00	.00	.05	.04	.02
Electricians and apprentices	.65	.63	.54	.46	.47	.48	.56	.61	.75
Excavating, grading mach operatr	.05	.04	.05	.04	.04	.06	.04	.03	.01
Painters and apprentices	.36	.35	.30	.27	.25	.17	.50	.40	.15
Plumbers, pipefitters, apprentices	.35	.29	.28	.18	.16	.14	.47	.48	.62
Roofers and slaters	.01	.01	.01	.00	.00	.00	.03	.03	.01
Structural metal craft workers	1.20	.89	.81	.10	.07	.04	3.63	2.59	2.06
Blue collar worker supervisors	4.92	5.13	4.67	4.30	4.90	5.63	5.02	5.86	6.98
Metalworkg craft wrkrs, exc mech	11.21	10.26	10.20	12.14	12.27	15.89	11.22	10.54	11.27
Blacksmiths	.03	.02	.01	.03	.03	.02	.04	.03	.00
Boilermakers	.51	.54	.78	.03	.04	.06	1.55	1.60	2.06
Heat treaters, annealers	.28	.25	.19	.67	.71	.81	.09	.09	.10
Forge and hammer operators	.43	.43	.40	.96	1.02	1.24	.07	.08	.10
Job and die setters, metal	1.99	1.76	1.86	2.52	2.17	1.99	.52	.40	.23
Machinists and apprentices	2.61	2.54	2.25	3.02	3.62	5.66	1.60	1.73	1.95
Millwrights	.34	.34	.29	.21	.22	.17	.25	.32	.47
Holdings, metal and apprentices	.38	.34	.30	.37	.34	.30	.31	.30	.34
Pattern and mldmakers	.18	.13	.11	.14	.12	.16	.24	.18	.15
Rollers and finishers, metal	.32	.33	.34	.56	.58	.62	.36	.34	.24
Sheetmetal workers, apprentices	2.01	1.80	1.97	.12	.08	.03	5.74	5.05	5.12
Tool and diemakers, apprentices	2.16	1.80	1.73	3.50	3.37	4.83	.47	.43	.51

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fabricated metal products			Cutlery and other hardware			Fabricated structural metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	2.84	3.46	4.53	2.54	2.88	3.20	1.91	2.12	2.11
Air cond, heating, refrig meca	.08	.09	.06	.02	.04	.04	.13	.12	.04
Aircraft mechanics	.01	.02	.03	.02	.03	.06	.01	.02	.04
Auto body repairers	.02	.01	.02	.00	.00	.00	.01	.01	.02
Auto mechanics and apprentices	.15	.14	.13	.07	.06	.05	.14	.11	.04
Farm implement mechanics	.01	.02	.03	.00	.00	.00	.01	.01	.02
Heavy equip mech, incl diesel	2.21	2.82	4.01	1.56	1.95	2.63	1.26	1.53	1.79
Household appliance mechanics	.06	.06	.04	.00	.00	.00	.17	.15	.07
Radio, television repairers	.02	.01	.01	.01	.01	.01	.01	.01	.02
Railroad, car shop repairers	.01	.01	.01	.00	.00	.00	.02	.02	.02
Other mechanics and apprentices	.28	.28	.20	.85	.79	.41	.17	.15	.07
Printing trade crafts workers	.39	.37	.26	.24	.30	.46	.08	.10	.15
Compositors and typesetters	.09	.08	.07	.09	.13	.24	.04	.05	.08
Engravers exc photoengravers	.09	.08	.04	.06	.07	.09	.00	.00	.00
Photoengravers, lithographers	.07	.05	.02	.01	.01	.01	.00	.00	.00
Press, plate printers, apprentices	.14	.15	.13	.07	.08	.12	.04	.05	.07
Transport, public util craft wkrs	.03	.04	.05	.02	.02	.02	.05	.07	.10
Zlec pwr line instaler, repairer	.00	.00	.01	.01	.01	.01	.00	.00	.00
Locomotive engineers	.01	.01	.02	.00	.00	.00	.02	.03	.05
Power station operators	.01	.01	.01	.01	.01	.01	.02	.02	.03
Telephone installers, repairers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Other crafts, kindred workers	1.42	1.23	1.44	.67	.65	.77	2.63	2.36	2.95
Bakers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Cabinetmakers	.04	.04	.05	.13	.17	.27	.04	.04	.03
Crane, derrick, hoist operator	.90	.77	1.06	.20	.18	.28	1.85	1.65	2.42
Glaziers	.04	.04	.02	.00	.00	.00	.11	.10	.05
Inspectors, other	.12	.13	.15	.09	.12	.15	.19	.24	.31
Shipfitters	.01	.01	.01	.00	.00	.00	.03	.02	.01
Sign painters and letterers	.01	.01	.02	.01	.01	.01	.01	.01	.02
Stationary engineers	.14	.08	.01	.16	.11	.03	.16	.08	.01
Upholsterers	.02	.01	.02	.00	.00	.00	.00	.00	.00
Other crafts workers	.13	.12	.09	.08	.07	.04	.23	.19	.08
Operatives	42.41	42.86	45.09	44.30	42.30	38.33	38.26	39.38	42.04
Operatives, except transport	39.60	39.87	41.47	42.76	40.53	35.96	35.65	36.48	37.93
Semiskilled metalworking	16.52	15.76	16.91	13.85	11.23	7.99	18.09	18.40	20.98
Drill press operatives	.76	.55	.36	1.30	.85	.32	.60	.36	.15
Furnace tendrs, smeltrs, pourers	.52	.54	.56	.40	.42	.47	.47	.50	.59
Grinding machine operatives	1.31	1.05	.77	3.00	2.37	1.68	.82	.60	.29
Heaters, metal	.04	.03	.03	.04	.05	.06	.04	.04	.05
Lathe, milling mach operatives	1.10	.81	.74	1.46	1.01	.69	.55	.35	.15
Metal platers	1.15	1.19	.98	.86	.73	.26	.05	.04	.01
Other precision mach operators	.90	.71	.67	.86	.63	.46	.19	.13	.05
Punch, stamping press operatives	4.31	3.79	3.76	4.19	3.26	1.69	2.42	1.72	.58
Solderers	.11	.09	.03	.08	.06	.01	.07	.04	.00
Welders and flamecutters	6.34	7.02	9.02	1.67	1.85	2.35	12.89	14.63	19.10
Semiskilled packing, inspecting	4.93	4.54	3.87	7.37	7.20	7.50	2.07	2.21	2.74
Checkers, examiners, mfg	3.27	3.11	2.75	3.41	3.28	2.95	1.38	1.51	1.91
Graders and sorters, mfg	.12	.09	.04	.09	.11	.17	.02	.02	.01
Packer, wrapper, exc meat, prodce	1.54	1.34	1.09	3.86	3.81	4.38	.68	.68	.83

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fabricated metal products			Cutlery and other hardware			Fabricated structural metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	18.15	19.57	20.68	21.54	22.11	20.48	15.48	15.88	14.21
Asbestos,insulation workers	.01	.01	.01	.00	.00	.00	.02	.02	.02
Assemblers	4.67	5.24	6.18	7.99	8.90	10.44	4.20	4.86	6.18
Cutting operatives, other	1.25	1.33	1.41	.01	.01	.01	1.86	1.85	1.52
Drillers, earth	.09	.08	.05	.23	.18	.07	.13	.09	.02
Filer,polisher,sander,buffer	1.50	1.46	1.37	3.68	3.13	1.69	.47	.38	.16
Mixing operatives	.10	.11	.14	.04	.05	.05	.04	.04	.03
Oilers,greasers,exc automobiles	.10	.09	.07	.10	.11	.17	.07	.07	.09
Painters, mfg articles	1.43	1.28	1.39	.97	.80	.63	1.47	1.18	.77
Photographic process workers	.06	.07	.08	.01	.01	.01	.14	.15	.18
Riveters and fasteners	.18	.18	.20	.33	.34	.36	.17	.16	.10
Sawyers	.20	.22	.28	.13	.14	.16	.53	.58	.70
Sewers and stitchers	.05	.05	.07	.07	.05	.05	.05	.04	.06
Furnace tendr,stokr,exc metal	.10	.06	.03	.09	.07	.10	.09	.06	.04
Winding operatives, other	.19	.20	.22	.12	.11	.10	.07	.06	.02
Miscellaneous machine operatves	5.17	5.74	6.02	4.96	5.20	4.50	3.15	3.30	2.70
Other operatives,exc transport	3.04	3.45	3.16	2.80	2.99	2.15	3.03	3.04	1.63
Transport equipment operatives	2.81	2.99	3.62	1.54	1.77	2.37	2.61	2.90	4.12
Delivery and route workers	.21	.19	.21	.14	.14	.19	.24	.24	.36
Fork lift,tow motor operatives	1.42	1.77	2.15	.84	1.01	1.12	.74	.87	.89
Rail vehicle operators, other	.00	.00	.01	.00	.00	.00	.01	.01	.02
Railroad brake operators	.01	.01	.01	.00	.00	.00	.03	.03	.02
Railroad switch operators	.01	.01	.02	.00	.00	.00	.03	.04	.06
Taxicab drivers, chauffeurs	.04	.02	.01	.00	.00	.00	.04	.03	.01
Truck drivers	1.12	.98	1.22	.56	.62	1.06	1.53	1.68	2.76
Service workers	1.76	1.58	1.10	1.84	1.66	1.14	1.45	1.17	.50
Cleaning service workers	1.29	1.18	.87	1.28	1.14	.73	1.07	.84	.30
Bldg interior cleaners, other	.20	.18	.10	.16	.14	.06	.18	.15	.04
Janitors and sextons	1.09	1.00	.77	1.11	1.00	.67	.89	.70	.25
Food service workers	.05	.04	.04	.01	.01	.01	.04	.03	.03
Cooks,exc private households	.02	.01	.01	.01	.01	.01	.01	.01	.01
Waiters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other food serv wkrs,exc privt	.01	.01	.01	.00	.00	.00	.01	.01	.01
Health service workers	.01	.01	.01	.02	.02	.02	.01	.01	.02
Nursing aides and orderlies	.01	.00	.00	.02	.02	.02	.00	.00	.00
Practical nurses	.01	.01	.01	.00	.00	.00	.01	.01	.02
Personal service workers	.03	.02	.02	.03	.03	.02	.02	.02	.03
Child care workers, exc private	.01	.00	.00	.01	.01	.01	.01	.01	.01
Elevator operators	.02	.02	.01	.02	.01	.01	.01	.01	.02
Protective service workers	.38	.33	.16	.50	.48	.36	.31	.26	.13
Firefighters	.01	.01	.02	.02	.02	.04	.01	.01	.01
Guards	.37	.31	.14	.48	.45	.32	.30	.25	.10
Police and detectives	.01	.01	.01	.01	.00	.00	.01	.01	.01
Laborers, except farm	5.44	5.23	5.20	4.03	3.90	3.60	4.70	4.14	3.07
Carpenter helpers	.05	.05	.07	.01	.01	.01	.10	.09	.16
Constr labr,exc carpenter helpr	.23	.19	.12	.18	.14	.06	.37	.29	.11
Freight and material handlers	1.89	1.97	2.27	1.90	1.93	2.12	1.55	1.49	1.28
Gardenrs,groundkeepers,exc farm	.02	.02	.02	.03	.04	.05	.04	.04	.02
Stock handlers	.39	.42	.35	.70	.69	.41	.16	.13	.04
Teamsters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Vehicle washers,equip cleaners	.26	.27	.23	.24	.22	.12	.08	.07	.02
Warehouse labcrers, other	.15	.13	.10	.07	.06	.05	.14	.15	.18
Other laborers	2.44	2.18	2.03	.89	.80	.77	2.26	1.88	1.27

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Screw machine products			Metal stamping			Misc fabricated metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.84	5.16	4.66	4.58	4.76	4.14	5.82	6.04	5.72
Engineers, technical	1.74	1.73	1.83	1.61	1.58	1.62	1.94	1.87	1.97
Chemical	.01	.01	.01	.03	.03	.03	.04	.03	.01
Civil	.01	.00	.00	.02	.01	.01	.06	.03	.01
Electrical	.03	.03	.06	.07	.07	.07	.12	.11	.08
Industrial	.61	.75	1.01	.54	.65	.85	.55	.68	.99
Mechanical	.63	.52	.26	.54	.44	.23	.59	.48	.26
Metallurgical	.15	.16	.20	.11	.12	.14	.08	.09	.10
Sales	.13	.06	.01	.09	.04	.00	.16	.11	.05
Other engineers	.19	.20	.29	.21	.22	.30	.34	.35	.47
Life and physical scientists	.14	.15	.17	.05	.06	.06	.20	.21	.22
Chemists	.14	.15	.17	.05	.06	.06	.20	.20	.21
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mathematical specialists	.01	.01	.01	.01	.01	.02	.01	.01	.02
Statisticians	.01	.01	.01	.01	.01	.02	.01	.01	.02
Engineering, science technicians	1.08	1.08	1.06	.94	.89	.86	1.54	1.48	1.49
Chemical technicians	.02	.02	.01	.00	.00	.00	.04	.05	.08
Drafters	.52	.44	.41	.64	.54	.47	.84	.73	.77
Electrical and electronic	.05	.06	.08	.02	.03	.04	.08	.11	.14
Industrial engineering	.08	.13	.20	.09	.13	.16	.08	.10	.09
Mechanical engineering	.05	.07	.10	.02	.03	.05	.02	.03	.05
Other engineering, science technicians	.36	.36	.27	.17	.18	.15	.48	.47	.36
Medical workers, except technicians	.03	.03	.01	.09	.07	.03	.07	.05	.01
Physicians and osteopaths	.00	.00	.00	.01	.01	.02	.00	.00	.00
Registered nurses	.03	.03	.01	.09	.06	.02	.07	.05	.01
Technicians, except health	.01	.02	.02	.03	.04	.03	.04	.05	.07
Airplane pilots	.01	.01	.01	.03	.03	.03	.01	.02	.02
Tool programmers, numerical	.01	.01	.01	.00	.00	.00	.01	.01	.02
Other technicians except health	.00	.00	.00	.00	.00	.00	.02	.02	.04
Computer specialists	.19	.25	.22	.18	.23	.23	.20	.26	.25
Computer programmers	.11	.14	.12	.14	.17	.16	.14	.17	.17
Computer systems analysts	.07	.10	.09	.03	.05	.06	.05	.07	.07
Other computer specialists	.01	.01	.01	.01	.01	.01	.01	.02	.01
Social scientists	.06	.11	.16	.06	.09	.09	.07	.13	.15
Economists	.06	.11	.16	.06	.09	.09	.07	.13	.15
Teachers	.02	.02	.01	.02	.02	.02	.01	.01	.01
Adult education	.02	.02	.01	.02	.02	.02	.01	.01	.01
Writers, artists, entertainers	.18	.19	.10	.20	.23	.17	.32	.38	.33
Designers	.11	.11	.05	.15	.17	.12	.16	.17	.11
Editors and reporters	.00	.00	.00	.02	.02	.01	.02	.02	.01
Painters and sculptors	.00	.00	.00	.00	.00	.00	.06	.10	.12
Photographers	.00	.00	.00	.02	.01	.01	.03	.02	.01
Public relations specialists	.02	.02	.01	.01	.02	.01	.03	.04	.05
Other writers, artists, entertainers	.04	.06	.05	.01	.02	.02	.02	.03	.04
Other professional and technical	1.38	1.58	1.08	1.38	1.54	1.00	1.42	1.59	1.19
Accountants	.81	.87	.53	.88	.93	.53	.80	.83	.48
Lawyers	.05	.06	.00	.01	.02	.01	.01	.02	.02
Operations and systems research	.19	.29	.30	.16	.24	.24	.21	.31	.31
Personnel, labor relations workers	.31	.33	.22	.32	.34	.22	.33	.37	.33
Other research workers	.03	.03	.04	.01	.01	.00	.06	.05	.05
Managers, officials, proprietors	6.74	7.97	8.14	5.48	5.84	4.08	6.47	6.86	5.10
Buyers, sales, loan managers	1.39	1.52	2.19	1.16	1.13	1.26	1.18	1.26	1.79
Bank, financial managers	.11	.12	.13	.10	.10	.08	.11	.11	.12
Credit managers	.04	.03	.04	.06	.04	.03	.05	.03	.01
Purchasing agents, buyers, other	.78	.80	1.16	.62	.59	.68	.49	.49	.70
Sales manager, except retail trade	.46	.57	.87	.37	.41	.47	.53	.64	.96

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Screw machine products			Metal stamping			Misc fabricated metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers,officials,properts	5.35	6.45	5.95	4.32	4.71	2.82	5.29	5.60	3.31
Office managers, other	.48	.55	.72	.29	.32	.41	.32	.36	.46
Restaurant,cafe,bar,managers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other managers, administrators	4.86	5.89	5.22	4.03	4.37	2.40	4.97	5.24	2.85
Sales workers	2.02	1.95	1.59	1.07	.82	.23	1.60	1.39	.78
Advertising agents,sales worker	.00	.00	.00	.01	.01	.01	.01	.02	.02
Other sales wrkrs	2.02	1.95	1.59	1.06	.80	.22	1.59	1.37	.76
Clerical workers	14.57	14.47	14.13	9.93	9.90	9.45	12.04	11.95	12.45
Stenographrs,typists,secretaries	4.05	4.00	4.06	2.69	2.60	2.51	3.53	3.48	3.92
Legal secretaries	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other secretaries	2.89	3.02	3.29	1.97	2.02	2.07	2.63	2.74	3.24
Stenographers	.07	.03	.00	.09	.04	.00	.10	.04	.01
Typists	1.10	.95	.78	.64	.55	.44	.79	.70	.66
Office machine operators	.88	.91	.73	.54	.72	.64	.66	.74	.59
Bookkeeping and billing	.09	.06	.08	.04	.02	.03	.08	.05	.06
Calculating	.04	.03	.05	.02	.01	.01	.03	.03	.03
Computer and peripheral equip	.17	.38	.32	.18	.41	.34	.17	.37	.31
Duplicating	.03	.03	.05	.01	.01	.01	.03	.03	.03
Keypunch	.47	.36	.19	.26	.23	.21	.32	.24	.12
Tabulating	.05	.01	.00	.01	.00	.00	.01	.00	.01
Other office machine operators	.03	.04	.05	.03	.03	.04	.02	.02	.02
Other clerical workers	9.64	9.57	9.34	6.70	6.58	6.29	7.85	7.73	7.95
Billing clerks	.26	.28	.32	.14	.17	.24	.26	.30	.46
Bookkeepers	1.42	1.41	1.22	1.04	1.01	.83	1.35	1.32	1.27
Cashiers	.00	.00	.00	.02	.02	.04	.04	.05	.06
Clerical supervisors, other	.14	.17	.20	.05	.06	.05	.11	.13	.14
Counter clerks,exc food	.25	.29	.38	.12	.14	.19	.20	.22	.31
Dispatchers,starters,vehicle	.00	.00	.00	.00	.00	.00	.02	.02	.03
Estimators,investigators,other	.29	.37	.38	.25	.32	.30	.24	.30	.29
Expediters,production controls	.99	1.11	1.37	.73	.83	1.06	.65	.76	1.08
File clerks	.36	.31	.31	.14	.12	.11	.19	.16	.14
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mail handlers,exc post office	.07	.08	.12	.05	.05	.05	.10	.10	.11
Messengers and office helpers	.02	.02	.01	.00	.00	.00	.02	.02	.01
Payroll,timekeeping clerks	.42	.44	.26	.54	.54	.32	.51	.51	.33
Receptionists	.26	.27	.28	.24	.24	.24	.20	.19	.18
Shipping and receiving clerks	2.23	1.84	1.04	1.50	1.21	.67	1.69	1.34	.75
Statistical clerks	.20	.24	.30	.19	.22	.25	.22	.26	.31
Stock clerks and store keepers	1.28	1.20	1.27	1.01	.98	1.17	1.00	.96	1.17
Telephone operators	.17	.10	.03	.15	.08	.03	.13	.07	.03
Weighers	.29	.33	.42	.03	.04	.06	.08	.09	.13
Misc clerical workers	1.00	1.13	1.45	.50	.55	.68	.83	.91	1.14
Crafts and kindred workers	28.60	28.53	27.60	25.52	24.07	21.63	20.32	19.30	17.01
Construction crafts workers	.81	.70	.49	2.15	1.97	1.55	2.11	1.87	1.62
Carpenters and apprentices	.06	.04	.01	.37	.30	.09	.17	.13	.04
Brick,stonemasons, apprentices	.03	.02	.00	.07	.07	.07	.22	.22	.24
Bulldozer operators	.05	.05	.11	.04	.05	.10	.09	.11	.23
Electricians and apprentices	.49	.43	.20	.93	.89	.61	.70	.62	.34
Excavating,grading mach operatr	.01	.01	.01	.04	.04	.07	.07	.07	.10
Painters and apprentices	.08	.10	.15	.33	.36	.45	.35	.38	.50
Plumbers,pipefitters,aprentices	.08	.04	.00	.29	.20	.06	.39	.26	.08
Structural metal craft workers	.02	.01	.01	.08	.06	.09	.12	.09	.10
Tile setters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Blue collar worker supervisors	4.94	5.30	4.52	5.17	5.06	3.06	4.90	4.49	2.22
Metalworkg craft wrkrs,exc mech	19.93	19.15	18.43	13.82	11.98	10.08	7.65	6.57	4.80
Blacksmiths	.01	.01	.00	.00	.00	.00	.02	.01	.00
Boilermakers	.02	.02	.01	.01	.01	.01	.06	.05	.03
Heat treaters, annealers	.94	.79	.34	.15	.12	.04	.25	.20	.09
Forge and hammer operators	3.15	3.14	2.74	.13	.13	.11	.12	.12	.10
Job and die setters, metal	6.37	5.85	6.50	3.28	3.11	3.88	1.55	1.44	1.83
Machinists and apprentices	5.99	6.35	6.30	2.27	1.99	.95	2.82	2.40	1.06
Millwrights	.25	.24	.13	.50	.46	.22	.39	.36	.17
Molders, metal and apprentices	.10	.09	.06	.19	.16	.11	.60	.51	.39
Pattern and mcldmakers	.02	.02	.01	.21	.15	.10	.16	.11	.06
Rollers and finishers,metal	.24	.27	.37	.25	.28	.38	.25	.26	.32
Sheetmetal workers, apprentices	.08	.05	.01	.47	.34	.15	.38	.28	.13
Tool and diemakers, apprentices	2.76	2.33	1.97	6.35	5.23	4.14	1.05	.84	.63

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Screw machine products			Metal stamping			Misc fabricated metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	2.38	2.98	3.94	3.03	3.94	6.16	3.82	4.86	7.43
Air cond, heating, refrig mecha	.00	.00	.00	.02	.03	.02	.10	.13	.13
Aircraft mechanics	.02	.02	.01	.01	.01	.04	.02	.02	.01
Auto body repairers	.00	.00	.00	.02	.02	.01	.04	.03	.03
Auto mechanics and apprentices	.08	.08	.07	.27	.28	.37	.14	.14	.16
Farm implement mechanics	.00	.00	.00	.01	.02	.03	.02	.03	.05
Heavy equip mech, incl diesel	2.21	2.82	3.81	2.46	3.32	5.39	3.16	4.17	6.73
Household appliance mechanics	.00	.00	.00	.01	.02	.03	.02	.03	.03
Office machine repairers	.00	.00	.00	.01	.01	.03	.01	.01	.01
Radio, television repairers	.00	.00	.00	.01	.00	.00	.03	.02	.00
Other mechanics and apprentices	.07	.08	.06	.21	.23	.24	.28	.30	.27
Printing trade crafts workers	.08	.07	.02	.32	.31	.21	.84	.75	.38
Compositors and typesetters	.04	.03	.01	.07	.05	.00	.14	.11	.03
Engravers exc photoengravers	.01	.01	.01	.03	.03	.02	.24	.21	.09
Photoengravers, lithographers	.00	.00	.00	.04	.04	.03	.18	.14	.04
Press, plate printers, apprentices	.03	.03	.01	.18	.19	.16	.27	.29	.22
Transport, public util craft wkrs	.00	.00	.00	.02	.02	.01	.03	.03	.04
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.01	.01	.02
Power station operators	.00	.00	.00	.02	.02	.01	.00	.00	.00
Telephone installers, repairers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Other crafts, kindred workers	.46	.33	.20	1.01	.80	.56	.97	.74	.52
Bakers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Cabinetmakers	.00	.00	.00	.04	.04	.03	.02	.02	.01
Crane, derrick, hoist operator	.26	.18	.11	.55	.41	.27	.58	.41	.26
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Glaziers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.04	.03	.01	.09	.07	.02	.08	.08	.03
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.01	.01	.03
Sign painters and letterers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Stationary engineers	.10	.05	.00	.15	.09	.01	.13	.06	.01
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Upholsterers	.00	.00	.00	.00	.00	.00	.05	.03	.05
Other crafts workers	.05	.06	.08	.15	.17	.22	.07	.07	.07
Operatives	36.86	35.53	37.23	45.80	46.90	51.87	45.18	46.08	49.82
Operatives, except transport	35.15	33.81	35.35	42.62	43.38	47.89	41.73	42.57	46.13
Semiskilled metalworking	17.85	15.56	16.54	20.30	19.59	21.59	13.76	12.99	13.04
Drill press operatives	1.84	1.52	1.44	.49	.40	.37	.62	.48	.40
Furnace tendrs, smelters, pourers	.57	.59	.61	.28	.28	.26	.72	.72	.73
Grinding machine operatives	2.33	1.95	1.65	.67	.58	.58	1.30	1.06	.92
Heaters, metal	.06	.04	.01	.03	.02	.02	.03	.02	.01
Lathe, milling mach operatives	2.45	1.96	2.25	.72	.57	.65	1.38	1.07	1.23
Metal platers	.76	.85	.89	.30	.33	.33	2.76	2.96	2.89
Other precision mach operators	7.16	6.00	6.64	.32	.27	.33	.46	.39	.48
Punch, stamping press operatives	2.08	2.04	2.55	11.95	11.57	14.22	2.78	2.66	3.32
Solderers	.03	.02	.01	.10	.09	.05	.17	.14	.07
Welders and flamecutters	.59	.59	.51	5.45	5.47	4.79	3.54	3.48	3.00
Semiskilled packing, inspecting	6.66	6.02	4.27	5.62	5.04	3.62	6.05	5.33	3.85
Checkers, examiners, mfg	4.77	4.57	3.75	4.04	3.83	3.15	4.25	3.97	3.31
Graders and scrters, mfg	.45	.34	.08	.11	.08	.02	.15	.11	.03
Packer, wrapper, exc meat, prodce	1.44	1.12	.44	1.47	1.13	.45	1.65	1.26	.52

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Screw machine products			Metal stamping			Misc fabricated metal		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	10.64	12.23	14.53	16.70	18.74	22.68	21.92	24.26	29.24
Asbestos,insulation workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Assemblers	1.64	1.82	1.99	4.13	4.53	4.93	4.97	5.38	5.94
Cutting operatives, other	1.02	1.20	1.68	.96	1.11	1.49	1.29	1.41	1.75
Drillers, earth	.22	.23	.28	.07	.07	.09	.00	.00	.00
Dyers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Filer,polisher,sander,buffer	.47	.53	.74	1.47	1.58	2.03	1.99	2.07	2.57
Garage wrkr,gas station atten	.00	.00	.00	.00	.00	.00	.01	.01	.01
Meat cutters and butchers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.01	.01	.01	.17	.20	.29	.15	.17	.25
Oilers,greasers,exc automobiles	.11	.07	.01	.17	.13	.04	.10	.07	.02
Painters, mfg articles	.19	.18	.25	1.51	1.48	2.11	1.77	1.69	2.37
Photographic process workers	.00	.00	.00	.00	.00	.00	.06	.05	.04
Riveters and fasteners	.37	.42	.59	.16	.19	.26	.09	.10	.15
Sawyers	.04	.03	.01	.12	.09	.02	.00	.00	.00
Sewers and stitchers	.04	.04	.08	.00	.00	.00	.08	.08	.14
Furnace tendr,stokr,exc metal	.08	.04	.01	.11	.06	.02	.11	.06	.02
Winding operatives, other	.09	.11	.15	.22	.25	.32	.33	.37	.49
Miscellaneous machine operatives	4.01	4.60	5.21	5.16	6.06	7.53	7.36	8.41	10.25
Other operatives,exc transport	2.34	2.94	3.53	2.45	3.01	3.56	3.58	4.34	5.23
Transport equipment operatives	1.71	1.72	1.89	3.18	3.52	3.98	3.45	3.51	3.68
Delivery and route workers	.18	.15	.10	.11	.09	.06	.27	.22	.15
Fork lift,tow motor operatives	.91	1.20	1.68	2.18	2.84	3.79	1.97	2.52	3.40
Taxicab drivers, chauffeurs	.00	.00	.00	.00	.00	.00	.07	.04	.00
Truck drivers	.63	.37	.11	.89	.60	.13	1.14	.73	.14
Service workers	1.74	1.60	1.14	1.94	1.86	1.67	1.93	1.81	1.54
Cleaning service workers	1.24	1.20	.98	1.36	1.38	1.46	1.48	1.43	1.32
Bldg interior cleaners, other	.26	.25	.16	.22	.21	.12	.21	.21	.17
Janitors and sextons	.99	.95	.81	1.14	1.18	1.34	1.27	1.22	1.15
Food service wrkrs	.03	.02	.01	.04	.03	.04	.07	.06	.06
Cooks,exc private households	.00	.00	.00	.02	.02	.01	.03	.02	.01
Food counter,fountain workers	.00	.00	.00	.00	.00	.00	.03	.03	.03
Waiters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other food serv wrks,exc privt	.03	.02	.01	.02	.02	.03	.01	.01	.02
Health service workers	.05	.04	.03	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.03	.02	.01	.00	.00	.00	.00	.00	.00
Practical nurses	.02	.02	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.04	.03	.02	.06	.04	.02	.02	.02	.01
Attendants,personal serv,other	.02	.01	.01	.01	.01	.01	.00	.00	.00
Elevator operators	.02	.02	.01	.05	.03	.01	.02	.02	.01
Protective service workers	.38	.31	.11	.49	.40	.16	.36	.30	.14
Firefighters	.00	.00	.00	.02	.02	.01	.01	.01	.01
Guards	.38	.31	.11	.46	.39	.15	.35	.29	.12
Police and detectives	.00	.00	.00	.00	.00	.00	.01	.01	.01
Laborers, except farm	4.63	4.78	5.50	5.67	5.85	6.94	6.66	6.57	7.60
Carpenter helpers	.00	.00	.00	.00	.00	.00	.05	.04	.05
Constr labr,exc carpenter helpr	.02	.01	.01	.13	.12	.12	.21	.19	.17
Freight and material handlers	.89	.98	1.32	2.22	2.42	3.22	2.27	2.43	3.28
Gardens,groundkeepers,exc farm	.02	.03	.05	.02	.02	.03	.00	.00	.00
Stock handlers	.64	.75	.80	.61	.71	.75	.35	.40	.43
Teamsters	.01	.01	.01	.02	.02	.01	.01	.01	.01
Vehicle washers,equip cleaners	.45	.50	.53	.30	.34	.35	.36	.39	.40
Warehouse labcrs, other	.10	.08	.03	.06	.05	.02	.23	.18	.08
Other laborers	2.50	2.42	2.76	2.31	2.18	2.43	3.17	2.91	3.18

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Machinery except electrical			Engines and turbines			Farm machinery, equipment		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	12.54	13.43	13.46	12.96	13.15	11.73	7.88	8.20	7.66
Engineers, technical	4.64	4.40	4.38	5.65	5.22	4.57	3.04	2.81	2.35
Aeronautical	.01	.01	.01	.10	.09	.05	.00	.00	.00
Chemical	.06	.05	.02	.05	.03	.00	.00	.00	.00
Civil	.05	.03	.01	.05	.03	.00	.04	.04	.05
Electrical	.82	.81	.87	.62	.58	.50	.19	.18	.19
Industrial	.80	.86	.89	1.01	1.07	1.00	.85	.82	.50
Mechanical	1.76	1.66	1.62	2.30	2.13	1.87	1.13	1.06	1.03
Metallurgical	.06	.06	.07	.18	.20	.24	.07	.07	.05
Petroleum	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sales	.28	.19	.12	.17	.06	.00	.06	.04	.04
Other engineers	.81	.73	.76	1.18	1.04	.90	.70	.60	.50
Life and physical scientists	.15	.15	.15	.23	.24	.26	.08	.07	.06
Biological	.00	.00	.01	.00	.00	.00	.00	.00	.00
Chemists	.11	.11	.11	.20	.20	.21	.08	.07	.04
Physicists and astronomers	.03	.03	.03	.03	.03	.05	.00	.00	.01
Mathematical specialists	.03	.03	.04	.03	.03	.05	.01	.01	.01
Mathematicians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Statisticians	.02	.02	.03	.03	.03	.05	.01	.01	.01
Engineering, science technicians	3.02	3.00	3.38	3.29	3.19	3.28	1.62	1.59	1.90
Agricultural, biologicl, exc health	.00	.00	.01	.00	.00	.00	.01	.01	.02
Chemical technicians	.03	.04	.06	.02	.02	.02	.02	.02	.02
Drafters	1.73	1.48	1.45	1.89	1.60	1.50	1.05	.99	1.30
Electrical and electronic	.54	.68	.99	.23	.30	.46	.05	.05	.04
Industrial engineering	.11	.15	.20	.13	.19	.27	.12	.13	.07
Mechanical engineering	.10	.12	.15	.13	.17	.23	.04	.05	.09
Surveyors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other engineering, science techn	.51	.53	.52	.89	.91	.80	.32	.34	.36
Medical workers, exc technicians	.08	.06	.02	.14	.11	.05	.10	.10	.12
Physicians and osteopats	.01	.00	.00	.01	.01	.00	.00	.00	.00
Registered nurses	.07	.05	.02	.12	.10	.05	.09	.10	.12
Health technolcigists, technicians	.01	.01	.01	.01	.02	.01	.01	.01	.00
Other health technicians	.00	.00	.00	.01	.01	.01	.01	.01	.00
Technicians, except health	.10	.13	.19	.15	.19	.21	.04	.06	.09
Airplane pilots	.02	.02	.02	.05	.05	.04	.02	.04	.08
Tool programers, numerical	.05	.06	.09	.06	.07	.07	.00	.00	.00
Other technicians except health	.03	.05	.08	.04	.07	.10	.01	.01	.01
Computer specialists	1.53	2.11	2.20	.58	.76	.72	.50	.62	.51
Computer programers	.86	1.05	1.10	.36	.42	.40	.33	.38	.33
Computer systems analysts	.58	.89	.97	.21	.32	.30	.15	.21	.17
Other computer specialists	.09	.17	.13	.01	.02	.02	.02	.03	.02
Social scientists	.20	.34	.46	.17	.29	.35	.18	.28	.25
Economists	.19	.34	.46	.17	.29	.35	.18	.28	.25
Teachers	.08	.10	.11	.04	.05	.05	.03	.03	.02
Adult education	.08	.10	.10	.04	.05	.05	.03	.03	.02
Writers, artists, entertainers	.79	.90	.69	.85	.93	.60	.52	.59	.58
Authors	.07	.08	.04	.08	.08	.03	.03	.05	.11
Designers	.42	.47	.34	.41	.46	.30	.27	.30	.20
Editors and reporters	.06	.06	.05	.05	.04	.01	.07	.07	.14
Painters and sculptors	.01	.02	.02	.04	.06	.07	.00	.00	.00
Photographers	.04	.03	.01	.06	.03	.00	.02	.02	.02
Public relations specialists	.07	.09	.08	.07	.08	.06	.07	.08	.07
Other writers, artists, entertain	.12	.16	.16	.15	.18	.12	.07	.07	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Machinery except electrical			Engines and turbines			Farm machinery, equipment		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.93	2.21	1.83	1.82	2.12	1.59	1.76	2.03	1.78
Accountants	1.05	1.13	.91	.85	.90	.56	.97	1.08	1.08
Architects	.01	.01	.01	.01	.01	.01	.02	.01	.00
Lawyers	.05	.06	.02	.03	.04	.01	.05	.10	.07
Librarians	.02	.02	.01	.02	.02	.01	.00	.00	.00
Operations and systems research	.32	.48	.49	.46	.70	.69	.29	.39	.29
Personnel, labor relations wkrs	.41	.43	.31	.39	.41	.27	.40	.43	.31
Other research workers	.08	.07	.07	.07	.06	.06	.04	.03	.02
Managers, officials, proprietors	7.08	7.83	7.03	4.20	4.45	3.57	5.84	6.59	6.35
Buyers, sales, loan managers	1.60	1.65	2.16	1.17	1.20	1.56	1.59	1.43	1.14
Bank, financial managers	.17	.17	.17	.14	.14	.11	.19	.18	.10
Credit managers	.06	.03	.03	.03	.02	.03	.12	.06	.02
Purchasing agents, buyers, other	.74	.71	.94	.73	.72	.95	.62	.52	.36
Sales manager, exc retail trade	.64	.73	1.04	.27	.32	.47	.65	.67	.66
Other managers, officials, propts	5.48	6.18	4.87	3.03	3.25	2.01	4.25	5.17	5.20
Mgrs, superintendents, building	.00	.00	.01	.00	.00	.00	.01	.01	.01
Office managers, other	.28	.31	.41	.10	.11	.15	.17	.18	.18
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other managers, administrators	5.19	5.86	4.45	2.91	3.13	1.85	4.08	4.98	5.01
Sales workers	2.03	1.82	1.44	.74	.56	.17	2.06	2.23	2.89
Advertising agents, sales worker	.01	.02	.03	.01	.02	.01	.02	.03	.07
Other sales workers	2.02	1.81	1.41	.72	.55	.16	2.05	2.20	2.82
Clerical workers	13.82	13.99	14.58	12.82	13.04	13.54	13.87	13.17	11.39
Stenographers, typists, secretaries	4.27	4.13	4.45	3.33	3.15	3.14	3.60	3.42	3.45
Legal secretaries	.01	.01	.02	.00	.00	.00	.03	.03	.06
Other secretaries	3.23	3.30	3.77	2.13	2.20	2.43	2.55	2.60	2.80
Stenographers	.12	.06	.01	.22	.12	.03	.18	.10	.03
Typists	.91	.76	.65	.98	.84	.69	.83	.68	.57
Office machine operators	1.11	1.44	1.26	1.00	1.16	.92	1.21	1.30	.79
Bookkeeping and billing	.05	.03	.04	.03	.02	.04	.06	.02	.03
Calculating	.03	.03	.03	.05	.04	.04	.02	.02	.01
Computer and peripheral equip	.39	.87	.82	.26	.56	.44	.31	.65	.47
Duplicating	.04	.03	.04	.06	.06	.10	.02	.02	.01
Keypunch	.52	.42	.28	.57	.45	.26	.74	.54	.23
Tabulating	.02	.01	.00	.01	.01	.00	.02	.01	.00
Other office machine operators	.06	.05	.04	.04	.04	.04	.04	.04	.04
Other clerical workers	8.45	8.43	8.87	8.49	8.72	9.48	9.06	8.45	7.15
Billing clerks	.17	.19	.27	.14	.17	.26	.22	.23	.23
Bookkeepers	1.28	1.23	1.08	.65	.63	.57	1.32	1.35	1.43
Cashiers	.04	.04	.04	.02	.02	.01	.05	.04	.01
Clerical supervisors, other	.13	.16	.19	.14	.16	.18	.18	.20	.16
Collectors, bill and account	.01	.01	.01	.01	.01	.00	.04	.03	.01
Counter clerks, exc food	.23	.26	.34	.23	.26	.35	.18	.18	.16
Dispatchers, starters, vehicle	.02	.02	.02	.02	.03	.07	.04	.03	.01
Estimators, investigators, other	.29	.36	.33	.26	.32	.30	.21	.22	.12
Expeditors, production controls	1.08	1.22	1.66	1.55	1.75	2.27	1.05	.97	.62
File clerks	.28	.24	.25	.34	.29	.28	.23	.20	.22
Library attendants, assistants	.02	.02	.01	.01	.01	.01	.02	.02	.01
Mail handlers, exc post office	.12	.12	.14	.10	.10	.10	.16	.15	.14
Messengers and office helpers	.02	.02	.01	.01	.01	.01	.02	.02	.02
Payroll, timekeeping clerks	.48	.49	.35	.52	.54	.36	.55	.61	.58
Receptionists	.21	.20	.19	.16	.16	.16	.24	.19	.08
Shipping and receiving clerks	1.14	.95	.66	.87	.71	.42	1.40	1.33	1.51
Statistical clerks	.33	.38	.43	.47	.56	.68	.31	.34	.32
Stock clerks and store keepers	1.45	1.34	1.48	1.64	1.54	1.68	1.80	1.33	.55
Telephone operators	.13	.08	.04	.09	.05	.01	.10	.06	.06
Weighers	.02	.02	.02	.01	.00	.00	.03	.02	.02
Misc clerical workers	1.02	1.10	1.36	1.28	1.41	1.76	.95	.94	.92
Crafts and kindred workers	23.70	22.79	20.81	22.61	22.07	20.21	20.30	20.83	22.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Machinery except electrical			Engines and turbines			Farm machinery, equipment		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	1.73	1.56	1.19	2.40	2.12	1.59	2.27	2.11	1.93
Carpenters and apprentices	.26	.22	.09	.45	.37	.13	.31	.35	.44
Brick,stonemasons, apprentices	.03	.03	.03	.07	.06	.06	.02	.01	.01
Bulldozer operators	.04	.05	.10	.02	.04	.11	.20	.17	.17
Electricians and apprentices	.72	.66	.39	.80	.75	.53	.64	.65	.66
Excavating,grading mach operatr	.04	.04	.07	.06	.06	.07	.02	.01	.01
Floor layers, exc tile setters	.01	.00	.00	.01	.01	.00	.00	.00	.00
Painters and apprentices	.28	.29	.35	.28	.30	.39	.76	.59	.22
Plumbers,pipefitters,aprentices	.29	.22	.10	.61	.44	.17	.29	.30	.43
Roofers and slaters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Structural metal craft workers	.06	.05	.06	.10	.08	.13	.03	.02	.01
Blue collar worker supervisors	3.47	3.49	2.51	4.39	4.31	2.71	4.72	5.25	5.60
Metalworkg craft wrkrs,exc mech	13.28	11.93	9.62	9.41	8.35	5.89	8.02	7.74	8.28
Blacksmiths	.02	.02	.01	.01	.01	.00	.07	.05	.02
Boilermakers	.03	.02	.01	.06	.04	.01	.01	.01	.02
Heat treaters, annealers	.29	.25	.13	.37	.31	.14	.38	.38	.36
Forge and hammer operators	.11	.11	.11	.06	.06	.06	.21	.21	.18
Job and die setters, metal	1.15	1.04	1.24	1.30	1.23	1.57	1.12	.86	.50
Machinists and apprentices	6.83	6.50	4.71	5.10	4.63	2.61	3.59	3.90	4.69
Millwrights	.31	.29	.17	.39	.36	.18	.36	.41	.48
Molders, metal and apprentices	.50	.44	.40	.20	.17	.11	.45	.30	.25
Pattern and mcldmakers	.36	.25	.18	.20	.15	.11	.26	.17	.20
Rollers and finishers,metal	.02	.02	.03	.02	.03	.07	.02	.02	.01
Sheetmetal workers, apprentices	.48	.36	.20	.36	.27	.14	.42	.36	.36
Tool and diemakers, apprentices	3.18	2.63	2.44	1.35	1.10	.88	1.14	1.07	1.22
Mechanics,repairers,installers	4.09	4.88	6.78	4.53	5.73	8.68	4.26	4.82	5.24
Air cond, heating, reфриg mech	.20	.26	.23	.08	.10	.10	.03	.05	.05
Aircraft mechanics	.02	.02	.02	.13	.10	.05	.01	.02	.08
Auto body repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.23	.23	.26	.35	.36	.47	.39	.32	.17
Data processing mach repairers	.41	.53	.82	.01	.01	.03	.02	.02	.02
Farm implement mechanics	.03	.04	.05	.00	.00	.00	.30	.31	.31
Heavy equip mech, incl diesel	2.52	3.26	4.83	3.25	4.36	7.13	3.15	3.80	4.47
Household appliance mechanics	.03	.04	.05	.02	.04	.06	.00	.00	.00
Office machine repairers	.33	.18	.19	.00	.00	.00	.00	.00	.00
Radio, television repairers	.03	.02	.01	.04	.02	.01	.04	.04	.05
Railroad, car shop repairers	.00	.01	.01	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.29	.30	.31	.65	.73	.84	.31	.26	.08
Printing trade crafts workers	.18	.15	.08	.11	.11	.05	.10	.12	.15
Compositors and typesetters	.06	.05	.02	.05	.03	.00	.07	.09	.15
Engravers exc photoengravers	.04	.03	.02	.00	.00	.00	.00	.00	.00
Photoengravers, lithographers	.01	.01	.00	.01	.01	.00	.01	.00	.00
Press,plate printers,aprentices	.06	.06	.04	.05	.06	.05	.03	.02	.00
Transport,public util craft wrks	.02	.02	.02	.01	.01	.01	.03	.03	.02
Power station operators	.01	.01	.01	.01	.01	.01	.02	.02	.02
Telephone installers,repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other crafts, kindred workers	.92	.76	.60	1.76	1.46	1.28	.90	.78	.85
Bakers	.00	.00	.00	.01	.01	.00	.00	.00	.00
Cabinetmakers	.02	.02	.01	.00	.00	.00	.01	.01	.02
Crane,derrick,hoist operator	.54	.42	.36	1.03	.82	.79	.51	.44	.60
Glaziers	.00	.00	.00	.00	.00	.00	.01	.02	.02
Inspectors, other	.06	.06	.03	.14	.12	.04	.07	.09	.13
Stationary engineers	.17	.12	.04	.35	.24	.07	.24	.15	.03
Other crafts workers	.11	.12	.16	.24	.27	.38	.07	.07	.05
Operatives	36.52	35.88	38.39	40.56	40.63	44.37	43.74	43.51	45.79
Operatives,except transport	34.91	34.21	36.72	38.53	38.56	42.26	39.91	39.26	40.63
Semiskilled metalworking	15.40	13.50	13.44	14.12	12.44	13.09	16.78	14.85	13.68
Drill press operatives	1.54	1.22	1.06	2.11	1.72	1.64	1.49	1.00	.41
Furnace tendrs,smeltrs,pourers	.26	.26	.26	.26	.26	.25	.42	.43	.45
Grinding machine operatives	2.88	2.36	2.04	3.13	2.69	2.72	1.53	1.11	.56
Heaters, metal	.02	.02	.01	.03	.02	.01	.03	.04	.06
Lathe,milling mach operatives	3.22	2.45	2.57	2.94	2.31	2.70	2.01	1.26	.60
Metal platers	.14	.14	.14	.19	.22	.24	.05	.03	.00
Other precision mach operators	1.74	1.43	1.66	1.65	1.41	1.76	.60	.39	.17
Punch,stamping press operatives	1.26	1.13	1.25	.83	.81	1.06	2.54	1.74	.54
Solderers	.20	.17	.09	.13	.11	.05	.08	.06	.05
Welders and flamecutters	4.14	4.34	4.35	2.86	2.89	2.67	8.04	8.78	10.84

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Machinery except electrical			Engines and turbines			Farm machinery, equipment		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled packing, inspecting	4.44	4.15	3.72	7.21	6.84	6.05	4.08	4.23	5.06
Checkers, examiners, mfy	3.64	3.51	3.35	6.25	6.08	5.71	2.95	3.09	3.65
Graders and scrsters, mfg	.03	.02	.01	.01	.01	.01	.05	.05	.07
Packer, wrapper, exc meat, prodce	.77	.62	.36	.95	.75	.34	1.08	1.08	1.35
Other operatives, exc transport	15.08	16.56	19.57	17.20	19.29	23.12	19.06	20.18	21.88
Asbestos, insulation workers	.01	.01	.01	.01	.02	.01	.00	.00	.00
Assemblers	7.33	8.10	9.70	8.82	9.78	11.27	10.34	11.96	15.62
Cutting operatives, other	.48	.53	.68	.23	.26	.34	.84	.83	.72
Drillers, earth	.24	.26	.32	.00	.00	.00	.00	.00	.00
Dyers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Filer, polisher, sander, buffer	.57	.59	.74	.81	.88	1.13	.42	.34	.14
Garage wrkr, gas station atten	.01	.00	.00	.01	.01	.01	.04	.03	.01
Mixing operatives	.05	.06	.08	.03	.04	.07	.06	.06	.05
Oilers, greasers, exc automobiles	.10	.07	.03	.12	.10	.05	.10	.11	.13
Painters, mfg articles	.91	.86	1.15	.81	.80	1.16	2.15	1.69	1.42
Photographic process workers	.11	.11	.08	.08	.07	.05	.05	.05	.05
Riveters and fasteners	.07	.07	.07	.07	.09	.14	.12	.12	.10
Sawyers	.20	.17	.07	.14	.11	.05	.23	.26	.18
Sewers and stitchers	.04	.04	.06	.01	.01	.03	.05	.05	.05
Furnace tendr, stokr, exc metal	.07	.05	.02	.14	.09	.04	.12	.09	.12
Winding operatives, other	.12	.14	.18	.21	.24	.35	.08	.07	.06
Miscellaneous machine operatives	2.71	3.05	3.51	3.58	4.19	5.26	2.66	2.73	2.21
Other operatives, exc transport	2.05	2.46	2.84	2.12	2.61	3.17	1.80	1.81	1.02
Transport equipment operatives	1.60	1.67	1.67	2.03	2.07	2.11	3.83	4.25	5.16
Delivery and route workers	.13	.11	.09	.06	.05	.03	.16	.16	.24
Fork lift, tow motor operatives	.79	.99	1.19	1.12	1.46	1.96	2.19	2.54	2.58
Rail vehicle operators, other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Railroad brake operators	.00	.01	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.04	.03	.01	.07	.05	.00	.06	.04	.00
Truck drivers	.64	.54	.37	.76	.50	.11	1.42	1.51	2.35
Service workers	1.79	1.69	1.51	2.10	1.97	1.76	1.99	1.62	.93
Cleaning service workers	1.28	1.25	1.25	1.43	1.42	1.39	1.36	1.06	.60
Bldg interior cleaners, other	.20	.21	.20	.24	.25	.26	.14	.11	.03
Janitors and sextons	1.08	1.05	1.05	1.19	1.17	1.13	1.22	.95	.56
Food service wrkrs	.10	.08	.07	.06	.05	.06	.07	.07	.06
Cooks, exc private households	.03	.02	.01	.03	.02	.01	.02	.02	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Food counter, fountain workers	.02	.02	.02	.01	.01	.02	.01	.01	.02
Waiters	.02	.01	.01	.01	.01	.01	.02	.02	.02
Other food serv wkrs, exc privt	.03	.02	.03	.01	.01	.01	.01	.01	.01
Health service workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personal service workers	.03	.02	.02	.06	.05	.13	.06	.05	.03
Attendants, personal serv, other	.01	.00	.00	.01	.01	.01	.02	.01	.01
Baggage porters and bellhops	.00	.00	.01	.02	.02	.10	.00	.00	.00
Elevator operators	.01	.01	.01	.01	.01	.01	.05	.04	.02
Housekeepers, exc private homes	.01	.01	.01	.02	.02	.01	.00	.00	.00
Protective service workers	.38	.33	.16	.54	.44	.17	.49	.44	.24
Firefighters	.01	.01	.01	.02	.01	.01	.00	.00	.00
Guards	.37	.32	.15	.52	.42	.16	.49	.44	.24
Laborers, except farm	2.53	2.57	2.79	4.02	4.12	4.65	4.32	3.85	2.92
Carpenter helpers	.01	.01	.02	.03	.02	.01	.01	.01	.01
Constr labr, exc carpenter helpr	.11	.11	.10	.25	.24	.27	.12	.09	.04
Freight and material handlers	.79	.83	1.04	.78	.86	1.14	1.98	1.90	1.87
Gardens, groundkeepers, exc farm	.04	.05	.06	.04	.05	.06	.10	.08	.04
Stock handlers	.44	.49	.50	.78	.90	.97	.51	.45	.16
Vehicle washers, equip cleaners	.28	.30	.29	.40	.43	.41	.21	.19	.10
Warehouse labcrs, other	.08	.07	.04	.06	.04	.02	.25	.17	.04
Other laborers	.76	.70	.73	1.68	1.58	1.78	1.14	.95	.68

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Constructn machines			Metal- working machinery			Office, accounting machines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	10.86	10.91	9.71	8.65	8.99	8.76	16.99	18.60	17.15
Engineers, technical	4.33	3.97	3.57	3.42	3.29	3.16	5.15	4.82	4.72
Chemical	.03	.03	.02	.01	.01	.01	.08	.09	.07
Civil	.12	.06	.01	.01	.01	.01	.00	.00	.00
Electrical	.38	.36	.32	.27	.26	.23	1.63	1.39	.99
Industrial	.79	.83	.76	.51	.54	.42	1.06	1.11	1.08
Mechanical	1.76	1.65	1.62	1.65	1.60	1.58	1.36	1.32	1.56
Metallurgical	.08	.09	.11	.04	.05	.05	.02	.01	.00
Mining	.01	.01	.01	.00	.00	.00	.00	.00	.00
Petroleum	.02	.02	.02	.00	.00	.00	.00	.00	.00
Sales	.25	.17	.08	.40	.29	.17	.05	.03	.00
Other engineers	.89	.76	.62	.53	.53	.69	.95	.87	1.02
Life and physical scientists	.10	.10	.10	.11	.12	.14	.30	.29	.28
Biological	.00	.00	.00	.00	.00	.00	.01	.02	.03
Chemists	.09	.09	.09	.11	.12	.14	.23	.21	.21
Physicists and astronomers	.01	.01	.01	.00	.00	.00	.06	.06	.04
Mathematical specialists	.02	.02	.02	.01	.01	.02	.08	.08	.07
Mathematicians	.00	.00	.00	.00	.00	.00	.02	.01	.00
Statisticians	.02	.02	.02	.01	.01	.02	.06	.06	.07
Engineering, science technicians	2.82	2.59	2.67	2.64	2.58	2.91	3.49	3.79	4.18
Chemical technicians	.03	.04	.07	.02	.03	.03	.07	.07	.03
Drafters	2.20	1.86	1.77	2.03	1.79	1.83	1.07	.93	.98
Electrical and electronic	.10	.13	.20	.20	.27	.42	1.27	1.55	1.71
Industrial engineering	.11	.15	.19	.09	.13	.19	.13	.16	.12
Mechanical engineering	.07	.08	.08	.07	.08	.09	.14	.16	.13
Other engineering, science tech	.31	.33	.35	.25	.28	.34	.81	.94	1.20
Medical workers, exc technicians	.10	.07	.02	.06	.04	.01	.08	.09	.11
Physicians and osteopats	.01	.01	.00	.00	.00	.00	.01	.01	.00
Registered nurses	.09	.06	.02	.06	.04	.01	.07	.08	.11
Health technolcists, technicians	.01	.02	.02	.00	.00	.00	.01	.02	.02
Clinical lab technologists, tech	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other health technicians	.01	.01	.01	.00	.00	.00	.01	.01	.01
Technicians, except health	.07	.11	.17	.14	.21	.36	.14	.17	.19
Airplane pilots	.02	.03	.03	.01	.01	.01	.01	.01	.01
Radio operators	.01	.01	.00	.00	.00	.00	.01	.01	.01
Tool programers, numerical	.03	.05	.09	.11	.18	.33	.02	.02	.01
Other technicians except health	.01	.03	.05	.01	.02	.02	.09	.13	.17
Computer specialists	.52	.68	.61	.33	.44	.39	2.63	3.34	2.75
Computer programers	.29	.34	.30	.24	.29	.27	1.43	1.60	1.33
Computer systems analysts	.21	.31	.28	.07	.11	.10	1.05	1.48	1.25
Other computer specialists	.02	.04	.02	.02	.04	.02	.15	.26	.18
Social scientists	.13	.23	.28	.06	.10	.12	.50	.75	.63
Economists	.13	.23	.28	.06	.10	.12	.50	.74	.63
Teachers	.04	.05	.05	.02	.03	.05	.34	.35	.13
Adult education	.04	.05	.05	.02	.03	.05	.34	.35	.13
Writers, artists, entertainers	.64	.72	.54	.53	.63	.50	1.29	1.42	1.02
Authors	.06	.06	.03	.03	.03	.02	.09	.10	.07
Designers	.34	.38	.27	.35	.40	.29	.57	.58	.31
Editors, and reporters	.06	.06	.05	.02	.02	.01	.14	.17	.22
Painters and sculptors	.00	.00	.00	.04	.07	.10	.07	.11	.13
Photographers	.03	.03	.01	.02	.02	.01	.04	.03	.01
Public relations specialists	.07	.09	.08	.04	.06	.05	.12	.14	.09
Other writers, artists, entertain	.08	.11	.10	.04	.05	.04	.26	.30	.20

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Constructn machines			Metal- working machinery			Office, accounting machines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.08	2.34	1.68	1.33	1.53	1.11	2.97	3.49	3.06
Accountants	1.16	1.23	.78	.81	.89	.60	1.38	1.60	1.76
Architects	.01	.01	.01	.00	.00	.00	.03	.02	.00
Lawyers	.03	.04	.01	.03	.03	.01	.13	.27	.25
Librarians	.01	.01	.01	.01	.01	.01	.03	.03	.01
Operations and systems research	.34	.50	.48	.18	.28	.27	.56	.77	.54
Personnel,labor relations wkrs	.45	.48	.33	.26	.28	.18	.64	.66	.46
Other research workers	.08	.08	.08	.04	.04	.04	.16	.11	.03
Vocation,education counselors	.00	.00	.00	.00	.00	.00	.04	.03	.01
Managers,officials,proprietors	5.93	6.20	4.67	7.35	8.38	7.02	7.55	8.99	9.97
Buyers,sales,loan managers	1.75	1.68	1.73	1.40	1.55	2.21	1.68	1.59	1.58
Bank,financial managers	.17	.17	.15	.15	.16	.15	.20	.17	.08
Credit managers	.06	.03	.02	.04	.03	.03	.07	.04	.05
Purchasing agents,buyers,other	.88	.79	.83	.65	.67	.94	.58	.51	.52
Sales manager, exc retail trade	.65	.68	.73	.57	.70	1.10	.83	.86	.92
Other managers,officials,properts	4.18	4.52	2.95	5.96	6.83	4.81	5.87	7.40	8.40
Office managers, other	.22	.25	.33	.36	.42	.57	.40	.42	.45
Restaurant,cafe,bar,managers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	3.94	4.26	2.61	5.60	6.41	4.24	5.45	6.97	7.94
Sales workers	1.90	1.69	1.08	1.91	1.86	1.47	4.64	4.90	6.00
Advertising agents,sales worker	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other sales workers	1.89	1.68	1.07	1.90	1.84	1.46	4.63	4.89	5.99
Clerical workers	14.81	14.69	14.64	11.66	12.10	12.84	18.39	18.25	18.05
Stenographers,typists,secretaries	3.81	3.66	3.76	3.73	3.73	4.03	6.15	5.93	6.52
Legal secretaries	.02	.02	.02	.00	.00	.00	.02	.02	.02
Other secretaries	2.72	2.78	3.07	2.84	2.98	3.42	4.47	4.58	5.32
Stenographers	.14	.07	.01	.08	.04	.00	.11	.04	.00
Typists	.93	.79	.66	.81	.71	.60	1.55	1.29	1.18
Office machine operators	.97	1.10	.87	.78	.97	.83	2.16	2.59	1.94
Bookkeeping and billing	.05	.03	.03	.06	.03	.05	.10	.06	.06
Calculating	.04	.03	.04	.05	.04	.06	.12	.08	.04
Computer and peripheral equip	.23	.49	.37	.22	.51	.42	.68	1.46	1.23
Duplicating	.04	.04	.06	.03	.03	.04	.11	.09	.06
Keypunch	.55	.46	.34	.38	.32	.22	.87	.66	.38
Tabulating	.01	.00	.00	.01	.01	.00	.02	.01	.00
Other office machine operators	.05	.04	.03	.03	.03	.04	.25	.24	.17
Other clerical workers	10.03	9.94	10.01	7.15	7.40	7.99	10.08	9.73	9.59
Billing clerks	.15	.18	.29	.15	.18	.27	.27	.27	.30
Bookkeepers	1.21	1.17	1.04	1.37	1.35	1.24	1.40	1.46	1.81
Cashiers	.04	.04	.03	.02	.03	.03	.07	.06	.03
Clerical supervisors, other	.21	.25	.29	.11	.13	.16	.15	.18	.20
Collectors, bill and account	.00	.00	.00	.01	.01	.01	.03	.02	.00
Counter clerks,exc food	.32	.36	.49	.19	.22	.30	.37	.37	.36
Dispatchers,starters,vehicle	.01	.02	.03	.00	.00	.00	.06	.07	.11
Estimators,investigators,other	.33	.41	.39	.33	.43	.40	.40	.45	.32
Expediters,prduction controlrs	1.39	1.48	1.64	.70	.85	1.26	1.12	1.09	.97
File clerks	.40	.34	.33	.25	.22	.22	.50	.44	.54
Insurance adjusters,examiners	.00	.00	.00	.00	.00	.00	.01	.01	.02
Library attendants, assistants	.01	.01	.01	.00	.00	.00	.04	.04	.01
Mail handlers,exc post office	.14	.14	.15	.07	.08	.09	.23	.20	.15
Messengers and office helpers	.02	.02	.01	.02	.02	.01	.04	.04	.01
Payroll,timekeeping clerks	.54	.55	.38	.47	.51	.39	.47	.45	.23
Receptionists	.16	.16	.16	.20	.20	.20	.18	.15	.13
Shipping and receiving clerks	1.30	1.06	.65	1.06	.90	.60	.82	.79	.93
Statistical clerks	.43	.51	.63	.21	.26	.32	.50	.55	.54
Stock clerks and store keepers	1.93	1.74	1.72	1.15	1.14	1.44	1.65	1.35	1.20
Telephone operators	.12	.07	.03	.11	.06	.03	.21	.16	.22
Weighers	.00	.00	.00	.01	.01	.01	.08	.09	.11
Misc clerical workers	1.30	1.42	1.76	.71	.80	1.02	1.47	1.49	1.41
Crafts and kindred workers	21.53	21.48	20.68	33.49	32.30	30.60	19.58	18.19	19.41

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Constructn machines			Metal- working machinery			Office, accounting machines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	2.46	2.22	2.00	1.42	1.32	1.00	.65	.63	.58
Carpenters and apprentices	.34	.27	.09	.21	.17	.05	.10	.10	.10
Brick,stonemasons, apprentices	.01	.01	.01	.01	.01	.02	.00	.00	.00
Bulldozer operators	.14	.17	.38	.02	.03	.10	.00	.00	.00
Electricians and apprentices	.96	.85	.46	.80	.75	.44	.31	.31	.31
Excavating,grading mach operatr	.14	.15	.25	.01	.01	.03	.00	.00	.00
Floor layers, exc tile setters	.01	.01	.00	.00	.00	.00	.00	.00	.00
Painters and apprentices	.40	.43	.58	.17	.18	.25	.13	.12	.10
Plumbers,pipefitters,aprentices	.28	.20	.08	.19	.14	.06	.10	.09	.07
Structural metal craft workers	.18	.14	.16	.02	.02	.03	.01	.01	.00
Tile setters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Blue collar worker supervisors	4.30	4.55	4.08	4.30	4.29	2.64	2.66	2.89	3.15
Metalworkg craft wkrs,exc mech	8.40	7.70	5.88	24.83	23.29	22.29	4.86	4.14	3.64
Blacksmiths	.04	.02	.00	.03	.03	.01	.00	.00	.00
Boilermakers	.08	.06	.02	.01	.01	.01	.00	.00	.00
Heat treaters, annealers	.41	.34	.17	.43	.38	.18	.14	.13	.09
Forge and hammer operators	.15	.15	.17	.26	.26	.26	.02	.02	.01
Job and die setters, metal	.49	.46	.59	1.28	1.24	1.62	1.40	1.11	.92
Machinists and apprentices	5.10	4.84	3.39	7.59	8.01	7.68	1.32	1.28	1.10
Millwrights	.41	.37	.18	.26	.25	.13	.09	.11	.14
Molders, metal and apprentices	.31	.28	.24	1.27	1.18	1.10	.13	.13	.17
Pattern and wldmakers	.22	.16	.12	.35	.26	.18	.39	.26	.18
Rollers and finishers,metal	.02	.02	.03	.01	.01	.01	.03	.02	.00
Sheetmetal workers, apprentices	.38	.28	.15	.18	.14	.08	.16	.15	.22
Tool and diemakers, apprentices	.82	.72	.81	13.16	11.53	11.03	1.19	.93	.82
Mechanics,repairers,installers	4.58	5.63	7.77	1.88	2.51	3.99	10.75	9.92	11.44
Air cond, heating, refig mecha	.05	.07	.07	.02	.03	.02	.01	.02	.01
Aircraft mechanics	.01	.01	.01	.01	.01	.03	.00	.00	.00
Auto body repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.40	.41	.55	.05	.05	.06	.04	.03	.02
Data processing mach repairers	.01	.02	.03	.02	.02	.03	1.24	1.45	1.54
Farm implement mechanics	.02	.03	.07	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	3.86	4.85	6.77	1.59	2.18	3.60	2.57	2.99	3.40
Household appliance mechanics	.01	.02	.03	.01	.02	.03	.00	.00	.00
Office machine repairers	.00	.00	.00	.01	.01	.03	6.33	4.93	6.24
Radio, television repairers	.01	.01	.01	.02	.02	.01	.00	.00	.00
Other mechanics and apprentices	.19	.21	.24	.15	.17	.19	.57	.50	.24
Printing trade crafts workers	.07	.07	.05	.16	.15	.08	.34	.34	.29
Compositors and typesetters	.03	.03	.00	.04	.04	.02	.08	.08	.04
Engravers exc photoengravers	.00	.00	.00	.08	.07	.03	.15	.16	.15
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Press,plate printers,aprentices	.04	.04	.05	.04	.04	.02	.08	.09	.09
Transport,public util craft wkrs	.01	.01	.01	.00	.00	.00	.02	.02	.01
Power station operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Telephone installers,repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts, kindred workers	1.70	1.30	.89	.90	.74	.61	.31	.27	.31
Cabinetmakers	.01	.01	.00	.01	.01	.01	.01	.01	.00
Crane,derrick,hoist operator	1.32	.96	.66	.50	.38	.28	.02	.01	.02
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Glaziers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.09	.08	.04	.05	.05	.02	.04	.06	.11
Jewelers and watchmakers	.00	.00	.00	.03	.03	.03	.07	.09	.17
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.17	.13	.05	.15	.09	.01	.10	.05	.01
Other crafts workers	.10	.11	.14	.15	.17	.25	.05	.03	.01
Operatives	39.22	39.27	42.94	33.19	32.51	35.22	29.83	28.45	27.71
Operatives,except transport	36.75	36.65	40.16	32.15	31.50	34.33	29.18	27.73	26.69
Semiskilled metalworking	18.26	16.98	17.79	17.33	14.92	14.57	6.47	4.76	2.54
Drill press operatives	1.86	1.51	1.43	1.64	1.34	1.14	1.31	.87	.34
Furnace tendrs,smeltrs,pourers	.26	.26	.24	.27	.29	.30	.08	.09	.04
Grinding machine operatives	1.87	1.57	1.49	6.20	5.25	4.54	.82	.62	.40
Heaters, metal	.02	.02	.01	.04	.03	.02	.00	.00	.00
Lathe,milling mach operatives	3.03	2.33	2.60	4.04	3.14	3.23	.55	.34	.17
Metal platers	.05	.06	.06	.11	.12	.13	.35	.26	.06
Other precision mach operators	.92	.77	.96	2.02	1.71	1.93	.78	.53	.32
Punch,stamping press operatives	1.00	.96	1.20	1.32	1.29	1.54	1.43	1.00	.38
Soldersers	.02	.02	.01	.05	.04	.02	.43	.30	.06
Welders and flamecutters	9.24	9.49	9.79	1.63	1.72	1.73	.71	.75	.78

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Constructn machines			Metal- working machinery			Office, accounting machines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled packing, inspecting	3.50	3.25	2.74	2.95	2.82	2.43	5.38	5.22	5.78
Checkers, examiners, mfg	2.98	2.85	2.56	2.23	2.23	2.15	4.52	4.38	4.78
Graders and scrsters, mfg	.02	.02	.01	.02	.02	.01	.03	.02	.00
Packer, wrapper, exc meat, prodce	.50	.39	.17	.70	.57	.27	.83	.81	1.00
Other operatives, exc transport	15.00	16.42	19.63	11.87	13.77	17.32	17.33	17.75	18.37
Assemblers	6.18	6.83	8.01	4.25	4.93	6.17	11.29	11.91	13.71
Blasters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Cutting operatives, other	.59	.68	.93	.47	.55	.76	.23	.23	.20
Drillers, earth	.62	.66	.83	.27	.30	.39	.00	.00	.00
Dry wall installers, lathers	.00	.00	.00	.01	.01	.00	.00	.00	.00
Dyers	.00	.00	.00	.03	.02	.01	.00	.00	.00
Filer, polisher, sander, buffer	.42	.45	.60	.91	1.01	1.38	.55	.46	.26
Mixing operatives	.04	.05	.09	.05	.06	.09	.06	.07	.12
Oilers, greasers, exc automobiles	.15	.10	.01	.08	.06	.02	.03	.03	.03
Painters, mfg articles	1.38	1.33	1.92	.52	.52	.77	.50	.41	.34
Photographic process workers	.15	.14	.11	.09	.09	.06	.12	.14	.19
Riveters and fasteners	.00	.00	.00	.02	.02	.03	.54	.50	.39
Sailors and deckhands	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sawyers	.41	.33	.12	.18	.15	.06	.06	.07	.12
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.04	.04	.05
Furnace tendr, stokr, exc metal	.10	.05	.02	.05	.03	.02	.07	.03	.01
Winding operatives, other	.12	.14	.18	.14	.16	.20	.09	.09	.11
Miscellaneous machine operatves	2.45	2.78	3.33	2.96	3.54	4.54	2.19	2.19	1.81
Other operatives, exc transport	2.38	2.88	3.47	1.83	2.30	2.82	1.55	1.58	1.05
Transport equipment operatives	2.47	2.62	2.78	1.04	1.00	.89	.65	.72	1.02
Delivery and route workers	.13	.10	.07	.17	.14	.11	.08	.09	.14
Fork lift, tow motor operatives	1.33	1.71	2.30	.37	.49	.67	.30	.35	.39
Taxicab drivers, chauffeurs	.06	.05	.02	.03	.02	.01	.04	.04	.04
Truck drivers	.95	.76	.39	.48	.35	.11	.23	.25	.46
Service workers	2.01	1.94	1.89	1.86	1.84	1.73	1.45	1.18	.58
Cleaning service workers	1.38	1.42	1.62	1.40	1.44	1.48	.89	.72	.32
Bldg interior cleaners, other	.25	.27	.30	.21	.23	.24	.19	.16	.06
Janitors and sextons	1.13	1.15	1.32	1.19	1.21	1.24	.70	.56	.26
Food service wrkrs	.10	.08	.08	.10	.08	.06	.23	.19	.13
Waiters' assistants	.00	.00	.00	.00	.00	.00	.01	.02	.03
Cooks, exc private households	.02	.02	.01	.04	.02	.01	.06	.05	.04
Dishwashers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Food counter, fountain workers	.02	.02	.02	.02	.02	.02	.03	.03	.02
Waiters	.02	.01	.01	.01	.01	.01	.01	.01	.01
Other food serv wrks, exc privt	.02	.02	.03	.03	.03	.02	.11	.07	.02
Health service workers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.01	.01	.02	.00	.00	.00
Personal service workers	.04	.03	.02	.02	.02	.02	.03	.03	.02
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.02	.02	.01
Elevator operators	.03	.02	.01	.01	.01	.01	.01	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.00	.00	.00
Protective service workers	.49	.41	.18	.33	.30	.15	.30	.24	.11
Firefighters	.02	.01	.01	.00	.00	.00	.01	.01	.02
Guards	.47	.39	.17	.32	.29	.15	.29	.23	.09
Police and detectives	.01	.01	.00	.00	.00	.00	.01	.01	.00
Laborers, except farm	3.75	3.82	4.38	1.89	2.03	2.35	1.57	1.45	1.13
Carpenter helpers	.02	.02	.01	.01	.01	.01	.01	.01	.01
Constr labr, exc carpenter helpr	.24	.23	.23	.07	.07	.07	.01	.01	.00
Freight and material handlers	1.20	1.29	1.74	.41	.45	.61	.62	.58	.50
Gardenrs, groundkeepers, exc farm	.04	.04	.06	.03	.04	.06	.04	.04	.04
Stock handlers	.57	.65	.71	.27	.32	.34	.50	.49	.33
Vehicle washers, equip cleaners	.37	.40	.40	.46	.53	.55	.11	.10	.05
Warehouse labcrers, other	.17	.14	.06	.03	.03	.03	.05	.06	.12
Other laborers	1.13	1.05	1.18	.61	.59	.68	.22	.16	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electronic computing equipment			Other mach, except electrical			Electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	37.61	39.45	38.04	9.21	9.29	8.43	17.34	17.42	16.32
Engineers, technical	10.30	9.20	9.71	4.01	3.74	3.43	7.61	6.96	6.33
Aeronautical	.01	.01	.01	.01	.01	.01	.04	.03	.02
Chemical	.14	.11	.05	.07	.05	.02	.09	.06	.02
Civil	.03	.02	.00	.05	.02	.00	.04	.02	.01
Electrical	4.73	4.16	4.04	.35	.33	.29	4.77	4.33	3.71
Industrial	1.58	1.74	2.48	.67	.70	.56	1.11	1.21	1.41
Mechanical	1.92	1.64	1.59	1.83	1.74	1.69	.80	.65	.50
Metallurgical	.04	.04	.05	.04	.05	.05	.04	.05	.06
Petroleum	.01	.01	.01	.01	.01	.02	.00	.00	.00
Sales	.12	.07	.06	.35	.25	.17	.19	.14	.11
Other engineers	1.73	1.41	1.43	.63	.58	.61	.52	.47	.50
Life and physical scientists	.40	.37	.39	.10	.10	.09	.23	.24	.21
Atmospheric and space	.00	.00	.00	.00	.00	.00	.00	.01	.01
Biological	.00	.01	.02	.00	.01	.02	.01	.02	.02
Chemists	.20	.18	.19	.09	.09	.07	.13	.13	.11
Physicists and astronomers	.19	.17	.15	.01	.01	.01	.08	.08	.07
Other life, physical scientists	.01	.01	.03	.00	.00	.00	.00	.00	.00
Mathematical specialists	.14	.14	.15	.01	.02	.02	.05	.05	.05
Mathematicians	.07	.07	.06	.00	.00	.00	.02	.02	.01
Statisticians	.07	.07	.09	.01	.01	.02	.03	.03	.04
Engineering, science technicians	7.20	7.14	7.77	2.43	2.31	2.41	4.72	4.84	4.74
Chemical technicians	.07	.07	.09	.03	.04	.06	.05	.06	.05
Drafters	1.41	1.05	.88	1.68	1.45	1.45	1.37	1.17	1.24
Electrical and electronic	3.78	4.15	5.05	.13	.16	.18	2.64	2.92	2.79
Industrial engineering	.15	.20	.28	.10	.14	.19	.13	.16	.17
Mechanical engineering	.24	.26	.27	.09	.11	.16	.06	.07	.09
Other engineering, science teca	1.56	1.42	1.20	.40	.41	.36	.46	.45	.40
Medical workers, exc technicians	.07	.05	.02	.06	.04	.01	.09	.07	.03
Physicians and osteopaths	.01	.01	.00	.00	.00	.00	.01	.01	.00
Registered nurses	.05	.04	.02	.06	.04	.01	.08	.06	.03
Health technologists, technicians	.01	.01	.03	.00	.00	.00	.01	.01	.00
Radiologic technologists, teca	.01	.01	.03	.00	.00	.00	.00	.00	.00
Technicians, except health	.19	.25	.35	.07	.09	.10	.06	.08	.10
Airplane pilots	.01	.02	.03	.01	.02	.01	.02	.02	.03
Radio operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Tool programmers, numerical	.03	.03	.02	.04	.05	.06	.02	.02	.02
Other technicians except health	.16	.21	.29	.02	.02	.03	.02	.04	.05
Computer specialists	11.44	13.69	11.73	.29	.38	.36	.87	1.04	.88
Computer programmers	6.19	6.49	5.62	.20	.24	.23	.56	.58	.47
Computer systems analysts	4.53	6.04	5.36	.08	.12	.11	.26	.37	.36
Other computer specialists	.72	1.16	.74	.01	.02	.02	.05	.08	.06
Social scientists	.83	1.33	1.72	.10	.18	.23	.22	.36	.41
Economists	.81	1.31	1.71	.10	.18	.23	.21	.35	.41
Psychologists	.01	.03	.01	.00	.00	.00	.00	.01	.01
Teachers	.45	.52	.49	.02	.02	.03	.08	.09	.07
Adult education	.44	.50	.43	.02	.02	.03	.08	.09	.07
Preschool and kindergarten	.01	.01	.06	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	2.61	2.60	1.71	.53	.60	.45	1.11	1.20	.92
Authors	.40	.35	.14	.03	.03	.01	.10	.08	.05
Designers	1.25	1.21	.72	.31	.35	.26	.49	.51	.37
Editors and reporters	.26	.22	.11	.03	.03	.02	.10	.09	.06
Musicians and composers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Painters and sculptors	.00	.00	.00	.00	.00	.00	.06	.08	.08
Photographers	.07	.04	.01	.03	.03	.01	.06	.04	.02
Public relations specialists	.16	.18	.16	.06	.07	.06	.09	.11	.08
Other writers, artists, entertain	.48	.59	.57	.07	.09	.09	.23	.28	.24

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electronic computing equipment			Other mach, except electrical			Electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	3.97	4.16	3.99	1.58	1.81	1.32	2.30	2.49	2.56
Accountants	1.78	1.75	1.89	.94	1.01	.67	1.18	1.17	1.48
Architects	.05	.04	.06	.01	.01	.01	.00	.00	.00
Lawyers	.12	.15	.04	.03	.04	.01	.07	.09	.05
Librarians	.10	.09	.07	.00	.00	.00	.03	.03	.02
Operations and systems research	.72	.99	1.04	.24	.36	.36	.41	.60	.58
Personnel, labor relations wkr	.96	.91	.70	.31	.32	.21	.51	.51	.33
Other research workers	.20	.17	.15	.06	.06	.06	.10	.09	.10
Vocation, education counselors	.05	.05	.05	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	9.56	9.95	9.65	7.34	8.23	7.31	5.84	6.18	6.31
Buyers, sales, loan managers	1.95	1.94	2.92	1.60	1.70	2.29	1.41	1.45	1.91
Bank, financial managers	.28	.27	.28	.14	.16	.16	.16	.17	.16
Credit managers	.02	.01	.01	.06	.04	.03	.05	.03	.01
Purchasing agents, buyers, other	.92	.84	1.29	.72	.71	.95	.74	.72	.94
Sales manager, exc retail trade	.72	.81	1.34	.67	.79	1.15	.46	.55	.79
Other managers, officials, proprs	7.61	8.01	6.73	5.74	6.54	5.03	4.43	4.73	4.41
Mgrs, superintendents, building	.01	.02	.03	.00	.00	.00	.00	.00	.00
Office managers, other	.21	.21	.29	.31	.35	.48	.13	.15	.19
Restaurant, cafe, bar, managers	.01	.01	.00	.01	.01	.01	.01	.01	.01
Other managers, administrators	7.38	7.77	6.41	5.42	6.18	4.54	4.28	4.57	4.21
Sales workers	2.53	2.24	2.49	1.89	1.63	.87	1.13	.95	.51
Advertising agents, sales worker	.01	.02	.04	.02	.02	.04	.01	.02	.03
Other sales workers	2.52	2.23	2.46	1.87	1.60	.83	1.11	.93	.48
Clerical workers	17.45	17.81	19.14	13.12	13.29	13.90	14.02	13.78	13.45
Stenographers, typists, secretaries	6.59	5.92	6.41	4.13	4.06	4.33	4.60	4.31	4.27
Legal secretaries	.01	.01	.03	.01	.01	.01	.02	.02	.04
Medical secretaries	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other secretaries	5.60	5.18	5.69	3.14	3.25	3.66	3.39	3.34	3.50
Stenographers	.08	.05	.03	.11	.05	.01	.10	.07	.06
Typists	.90	.68	.64	.87	.76	.66	1.09	.88	.67
Office machine operators	2.80	4.20	3.49	.78	.95	.82	1.16	1.33	1.04
Bookkeeping and billing	.05	.03	.04	.05	.03	.04	.05	.03	.04
Calculating	.02	.02	.02	.02	.02	.03	.04	.03	.03
Computer and peripheral equip	1.70	3.46	3.10	.21	.47	.38	.35	.71	.57
Duplicating	.03	.03	.04	.03	.03	.03	.05	.04	.05
Keypunch	.87	.57	.22	.41	.36	.30	.58	.45	.29
Tabulating	.03	.01	.00	.01	.00	.00	.03	.01	.00
Other office machine operators	.09	.08	.07	.05	.05	.04	.07	.07	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electronic computing equipment			Other mach, except electrical			Electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	8.06	7.69	9.24	8.20	8.27	8.76	8.26	8.13	8.13
Billing clerks	.10	.11	.15	.18	.21	.31	.15	.17	.24
Bookkeepers	.96	.82	.67	1.41	1.36	1.17	1.06	.99	.82
Cashiers	.07	.06	.06	.03	.03	.06	.05	.05	.06
Clerical supervisors, other	.17	.19	.24	.10	.12	.14	.15	.17	.19
Collectors, bill and account	.01	.01	.00	.01	.01	.01	.01	.01	.01
Counter clerks,exc food	.21	.22	.30	.22	.25	.34	.28	.28	.29
Dispatchers,starters,vehicle	.01	.02	.03	.02	.02	.02	.02	.02	.04
Enumerators and interviewers	.00	.00	.00	.01	.01	.02	.01	.01	.00
Estimators,investigators,other	.23	.27	.28	.28	.35	.34	.25	.30	.28
Expeditors,production controls	1.52	1.64	2.55	.95	1.12	1.60	1.18	1.28	1.51
File clerks	.31	.24	.24	.23	.20	.21	.33	.27	.24
Library attendants, assistants	.13	.13	.05	.00	.00	.00	.02	.02	.01
Mail handlers,exc post office	.19	.18	.22	.10	.10	.11	.13	.13	.14
Messengers and office helpers	.03	.02	.01	.02	.01	.01	.02	.02	.01
Payroll,timekeeping clerks	.26	.24	.15	.50	.52	.37	.36	.35	.20
Receptionists	.26	.23	.25	.22	.21	.21	.18	.17	.17
Shipping and receiving clerks	.54	.39	.29	1.27	1.06	.70	.98	.85	.73
Statistical clerks	.47	.51	.65	.27	.31	.30	.41	.47	.53
Stock clerks and store keepers	1.02	.91	1.18	1.38	1.34	1.64	1.26	1.16	1.32
Telephone operators	.18	.10	.03	.13	.08	.03	.16	.08	.03
Weighers	.00	.00	.00	.02	.02	.04	.03	.03	.05
Misc clerical workers	1.37	1.40	1.92	.89	.96	1.14	1.23	1.29	1.28
Crafts and kindred workers	10.45	9.97	9.93	24.81	24.15	21.33	13.63	12.81	12.33
Construction crafts workers	.52	.41	.26	1.82	1.62	1.18	1.47	1.34	1.13
Carpenters and apprentices	.11	.08	.03	.27	.22	.08	.17	.14	.06
Brick,stonemasons, apprentices	.00	.00	.00	.05	.05	.06	.01	.01	.01
Bulldozer operators	.00	.00	.00	.01	.01	.02	.00	.00	.00
Electricians and apprentices	.29	.23	.13	.75	.69	.40	.86	.81	.67
Excavating,grading mach operatr	.00	.00	.00	.02	.02	.05	.01	.01	.01
Painters and apprentices	.06	.06	.08	.28	.31	.42	.23	.24	.30
Plumbers,pipefitters,aprentices	.06	.04	.02	.37	.27	.10	.18	.12	.07
Structural metal craft workers	.00	.00	.00	.06	.05	.06	.01	.01	.01
Blue collar worker supervisors	2.48	2.15	1.22	2.88	2.84	1.84	2.71	2.62	1.99
Metalworkg craft wrkrs,exc mecn	2.02	1.68	1.57	15.34	14.01	10.43	4.62	4.08	3.72
Blacksmiths	.00	.00	.00	.01	.01	.01	.00	.00	.00
Boilermakers	.00	.00	.00	.03	.02	.01	.00	.00	.01
Heat treaters, annealers	.01	.01	.01	.26	.22	.10	.06	.05	.02
Forge and hammer operators	.01	.01	.01	.07	.07	.07	.02	.02	.02
Job and die setters, metal	.21	.18	.23	1.50	1.42	1.80	.99	.87	.95
Machinists and apprentices	.98	.92	.92	9.74	9.17	5.98	1.47	1.50	1.45
Millwrights	.02	.02	.01	.36	.34	.20	.17	.14	.08
Molders, metal and apprentices	.03	.03	.03	.47	.43	.41	.35	.30	.25
Pattern and mcldmakers	.17	.10	.06	.48	.34	.24	.30	.19	.13
Rollers and finishers,metal	.00	.00	.00	.03	.03	.06	.03	.04	.07
Sheetmetal workers, apprentices	.15	.10	.06	.77	.57	.29	.30	.21	.11
Tool and diemakers, apprentices	.44	.32	.24	1.63	1.38	1.27	.94	.75	.65
Mechanics,repairers,installers	4.82	5.29	6.68	3.80	4.86	7.19	2.76	3.06	4.29
Air cond, heating, refig mech	.05	.06	.04	.41	.53	.48	.14	.17	.14
Aircraft mechanics	.00	.00	.00	.02	.02	.01	.03	.02	.01
Auto body repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.06	.06	.07	.25	.25	.30	.08	.08	.11
Data processing mach repairers	3.56	4.05	4.96	.02	.03	.04	.07	.09	.12
Farm implement mechanics	.00	.00	.00	.02	.03	.06	.01	.01	.01
Heavy equip mech, incl diesel	.62	.73	1.13	2.64	3.52	5.74	1.41	1.76	2.39
Household appliance mechanics	.00	.00	.00	.07	.07	.09	.17	.19	.26
Loom fixers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Office machine repairers	.28	.18	.24	.02	.02	.02	.02	.02	.03
Radio, television repairers	.08	.05	.01	.02	.01	.01	.44	.29	.74
Railroad, car shop repairers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other mechanics and apprentices	.17	.17	.22	.31	.35	.40	.40	.44	.48
Printing trade crafts workers	.23	.18	.06	.21	.18	.08	.19	.16	.06
Compositors and typesetters	.09	.06	.02	.08	.06	.01	.09	.06	.01
Engravers exc photoengravers	.02	.02	.00	.04	.03	.02	.03	.02	.01
Photoengravers, lithograpers	.02	.01	.00	.02	.02	.01	.01	.01	.00
Press,plate printers,aprentices	.10	.09	.04	.06	.07	.04	.06	.06	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electronic computing equipment			Other mach, except electrical			Electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport,public util craft wkrs	.01	.02	.02	.02	.03	.03	1.38	1.13	.81
Elec pwr line instaler,repairer	.00	.00	.00	.00	.00	.00	.02	.02	.03
Power station operators	.00	.00	.00	.01	.01	.01	.01	.01	.01
Telephone installers,repairers	.01	.02	.02	.01	.02	.02	1.32	1.07	.75
Telephone line instalr,splicers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Other crafts, kindred workers	.37	.25	.12	.75	.63	.57	.50	.41	.33
Cabinetmakers	.01	.01	.00	.04	.03	.01	.04	.03	.00
Crane,derrick,hoist operator	.01	.01	.01	.39	.32	.33	.14	.10	.06
Inspectors, other	.02	.02	.01	.06	.06	.03	.04	.04	.02
Opticians,lens grinder,polisher	.00	.00	.00	.01	.01	.01	.01	.01	.01
Stationary engineers	.28	.18	.06	.13	.09	.03	.17	.14	.11
Other crafts workers	.05	.04	.05	.11	.12	.17	.08	.09	.10
Operatives	20.46	18.90	19.25	39.48	39.20	43.55	43.92	44.83	46.81
Operatives,except transport	20.19	18.64	18.97	37.96	37.64	42.06	42.90	43.77	45.59
Semiskilled metalworking	2.70	2.16	1.72	17.40	15.38	16.25	6.81	6.08	5.52
Drill press operatives	.21	.15	.12	1.65	1.36	1.31	.50	.40	.38
Furnace tendrs,smeltrs,pourers	.03	.02	.03	.30	.31	.32	.19	.19	.18
Grinding machine operatives	.29	.22	.19	2.96	2.48	2.27	.42	.36	.37
Heaters, metal	.00	.00	.00	.02	.02	.01	.01	.01	.00
Lathe,milling mach operatives	.32	.22	.24	4.13	3.21	3.57	.64	.49	.51
Metal platers	.24	.24	.26	.14	.15	.15	.33	.36	.37
Other precisicn mach operators	.08	.06	.07	2.58	2.19	2.67	.31	.26	.31
Punch,stamping press operatives	.27	.24	.30	1.38	1.34	1.70	1.48	1.36	1.58
Solderers	.96	.73	.31	.14	.13	.07	1.27	1.07	.61
Welders and flamecutters	.32	.28	.21	4.10	4.21	4.18	1.67	1.58	1.20
Semiskilled packing, inspecting	4.54	3.78	3.52	4.89	4.60	4.04	8.54	7.69	6.04
Checkers, examiners, mfg	4.23	3.54	3.31	3.94	3.85	3.69	7.19	6.62	5.47
Graders and scrtrs, mfg	.03	.02	.00	.03	.03	.01	.06	.05	.01
Packer,wrapper,exc meat,prodc	.28	.21	.21	.92	.73	.34	1.29	1.03	.56
Other operatives, exc transport	12.94	12.71	13.73	15.67	17.66	21.77	27.55	29.99	34.03
Asbestos,insulation workers	.00	.00	.00	.02	.02	.01	.02	.02	.02
Assemblers	9.43	9.18	9.76	7.35	8.32	10.31	14.50	15.33	16.25
Cutting operatives, other	.11	.12	.16	.53	.60	.81	.47	.53	.70
Drillers, earth	.00	.00	.00	.25	.26	.33	.05	.06	.08
Dyers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Filer,polisher,sander,buffer	.15	.15	.18	.58	.62	.83	.39	.40	.51
Mixing operatives	.00	.00	.00	.06	.07	.11	.10	.11	.12
Oilers,greasers,exc automobiles	.01	.01	.00	.10	.09	.04	.05	.04	.02
Painters, mfg articles	.23	.21	.31	.90	.89	1.29	.88	.82	1.03
Photographic process workers	.15	.12	.07	.11	.11	.09	.12	.10	.07
Riveters and fasteners	.03	.03	.06	.06	.07	.09	.14	.15	.20
Sawyers	.01	.01	.03	.19	.16	.06	.07	.06	.02
Sewers and stitchers	.01	.01	.01	.08	.08	.13	.07	.07	.12
Furnace tendr,stor,exc metal	.03	.02	.01	.07	.04	.02	.10	.05	.02
Winding operatives, other	.16	.16	.22	.11	.13	.17	1.70	1.94	2.60
Miscellaneous machine operatives	1.14	1.11	1.07	3.01	3.46	4.18	4.68	5.38	6.60
Other operatives,exc transport	1.48	1.60	1.84	2.23	2.73	3.29	4.21	4.92	5.67
Transport equipment operatives	.28	.26	.28	1.52	1.56	1.50	1.02	1.07	1.22
Delivery and route workers	.07	.05	.04	.14	.12	.09	.08	.07	.05
Fork lift,tow motor operatives	.11	.12	.16	.71	.88	1.08	.53	.67	.93
Railroad brake operators	.00	.00	.00	.01	.01	.03	.00	.00	.00
Taxicab drivers, chauffeurs	.01	.01	.01	.03	.02	.01	.03	.02	.00
Truck drivers	.09	.08	.07	.63	.52	.29	.37	.31	.24
Service workers	1.29	1.06	.80	1.76	1.71	1.65	1.82	1.66	1.49
Cleaning service workers	.74	.65	.61	1.32	1.33	1.39	1.15	1.13	1.15
Bldg interior cleaners, other	.08	.08	.08	.21	.22	.23	.16	.17	.19
Janitors and sextons	.66	.57	.53	1.12	1.12	1.17	.99	.96	.97
Food service workers	.22	.15	.07	.06	.06	.08	.15	.12	.12
Cooks,exc private households	.04	.02	.01	.02	.01	.01	.04	.02	.01
Dishwashers	.01	.00	.00	.01	.01	.01	.01	.01	.01
Food counter,fountain workers	.09	.07	.03	.01	.01	.02	.04	.04	.04
Waiters	.03	.01	.01	.01	.01	.01	.02	.01	.01
Other food serv wkrs,exc privt	.06	.03	.02	.02	.02	.03	.04	.04	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electronic computing equipment			Other mach, except electrical			Electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.01	.01	.01	.02	.02	.02	.04	.03	.02
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.02	.02	.02
Elevator operators	.00	.00	.00	.01	.01	.01	.02	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.00	.00	.00
Protective service workers	.32	.24	.11	.35	.31	.15	.47	.37	.19
Guards	.31	.24	.11	.34	.29	.14	.45	.36	.19
Laborers, except farm	.66	.63	.71	2.39	2.50	2.95	2.31	2.38	2.78
Carpenter helpers	.00	.00	.00	.02	.02	.04	.01	.01	.01
Constr labr, exc carpenter helpr	.04	.03	.02	.09	.09	.10	.07	.06	.07
Freight and material handlers	.29	.27	.34	.74	.80	1.09	1.12	1.17	1.51
Gardenrs, groundkeepers, exc farm	.03	.03	.05	.04	.05	.06	.04	.05	.06
Stock handlers	.18	.19	.23	.46	.53	.59	.45	.50	.51
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	.04	.03	.02	.25	.28	.29	.14	.15	.16
Warehouse labcrers, other	.04	.03	.02	.07	.06	.03	.11	.08	.05
Other laborers	.05	.03	.02	.72	.67	.76	.37	.35	.41

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Household appliances			Radio, tv, communicatn equipment			Other electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	7.06	7.32	6.51	22.72	23.53	25.20	15.99	16.00	14.02
Engineers, technical	2.62	2.50	2.39	10.35	9.65	9.84	6.88	6.34	5.43
Aeronautical	.00	.00	.00	.09	.08	.06	.02	.02	.00
Chemical	.05	.03	.00	.06	.04	.03	.11	.08	.02
Civil	.00	.00	.00	.06	.03	.02	.04	.02	.00
Electrical	1.04	.95	.74	6.92	6.54	6.62	4.17	3.78	2.93
Industrial	.75	.87	1.11	1.35	1.40	1.44	1.03	1.17	1.43
Mechanical	.47	.38	.20	1.07	.85	.79	.70	.60	.43
Metallurgical	.03	.03	.04	.04	.05	.06	.04	.05	.06
Sales	.06	.03	.00	.10	.04	.04	.27	.19	.15
Other engineers	.22	.22	.30	.65	.62	.78	.50	.43	.41
Life and physical scientists	.05	.06	.09	.22	.24	.27	.26	.26	.21
Atmospheric and space	.00	.00	.00	.01	.01	.02	.01	.01	.01
Biological	.00	.00	.00	.02	.03	.02	.01	.01	.02
Chemists	.05	.06	.08	.09	.10	.13	.16	.15	.10
Physicists and astronomers	.00	.00	.01	.10	.09	.10	.09	.09	.07
Other life, physical scientists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Mathematical specialists	.02	.02	.03	.08	.08	.09	.04	.04	.04
Mathematicians	.00	.00	.00	.03	.02	.02	.01	.01	.01
Statisticians	.02	.02	.03	.05	.05	.07	.03	.03	.04
Engineering, science technicians	1.56	1.59	1.70	5.67	6.17	7.50	4.70	4.68	4.03
Chemical technicians	.04	.05	.06	.05	.06	.08	.06	.06	.04
Drafters	.68	.55	.46	1.54	1.38	1.75	1.40	1.17	1.13
Electrical and electronic	.59	.66	.67	3.34	3.91	4.62	2.58	2.78	2.33
Industrial engineering	.13	.18	.25	.14	.19	.27	.12	.15	.12
Mathematical technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mechanical engineering	.01	.01	.01	.07	.09	.12	.06	.08	.10
Other engineering, science teca	.11	.14	.25	.53	.54	.66	.48	.45	.32
Medical workers, exc technicians	.10	.05	.00	.10	.07	.04	.08	.06	.04
Physicians and osteopaths	.01	.00	.00	.01	.02	.01	.01	.00	.00
Registered nurses	.09	.05	.00	.08	.05	.03	.07	.06	.04
Health technolcists, technicians	.00	.00	.00	.01	.01	.01	.01	.01	.00
Technicians, except health	.03	.05	.07	.08	.10	.09	.06	.08	.10
Airplane pilots	.02	.04	.06	.01	.02	.02	.02	.02	.03
Radio operators	.00	.00	.00	.01	.02	.01	.01	.01	.01
Tool programers, numerical	.01	.01	.01	.02	.03	.03	.01	.01	.01
Other technicians except health	.01	.00	.00	.03	.04	.03	.03	.04	.06
Computer specialists	.37	.48	.44	1.23	1.49	1.60	.75	.91	.65
Computer programers	.22	.25	.24	.80	.86	.94	.48	.50	.31
Computer systems analysts	.13	.19	.16	.35	.51	.55	.23	.34	.30
Other computer specialists	.02	.04	.04	.08	.13	.11	.04	.06	.03
Social scientists	.13	.21	.25	.25	.44	.52	.21	.35	.39
Economists	.13	.21	.25	.25	.41	.49	.20	.34	.39
Psychologists	.00	.00	.00	.01	.02	.03	.00	.01	.00
Teachers	.03	.04	.04	.13	.16	.12	.06	.07	.06
Adult education	.03	.04	.04	.13	.16	.12	.06	.07	.06
Writers, artists, entertainers	.55	.61	.40	1.72	1.96	1.92	.87	.92	.58
Authors	.01	.00	.00	.18	.16	.16	.06	.06	.02
Designers	.33	.35	.20	.58	.61	.59	.46	.49	.31
Editors and reporters	.04	.04	.04	.14	.13	.12	.08	.07	.03
Musicians and composers	.00	.00	.00	.02	.03	.05	.00	.00	.00
Painters and sculptors	.04	.06	.04	.15	.23	.30	.00	.00	.00
Photographers	.01	.01	.01	.08	.06	.05	.06	.04	.01
Public relations specialists	.09	.11	.07	.13	.16	.13	.07	.09	.07
Other writers, artists, entertain	.03	.04	.03	.45	.58	.54	.14	.17	.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Household appliances			Radio, tv, communicatn equipment			Other electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.61	1.72	1.09	2.89	3.16	3.21	2.09	2.29	2.50
Accountants	.94	.95	.53	1.43	1.43	1.54	1.07	1.08	1.59
Architects	.00	.00	.00	.01	.01	.01	.00	.00	.00
Home management advisors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lawyers	.03	.04	.00	.10	.10	.10	.06	.09	.03
Librarians	.00	.00	.00	.04	.04	.03	.02	.02	.01
Operations and systems research	.21	.31	.29	.57	.84	.84	.36	.53	.52
Personnel, labor relations wkrs	.35	.36	.23	.62	.64	.52	.47	.47	.27
Other research workers	.05	.04	.04	.12	.10	.16	.10	.09	.08
Managers, officials, proprietors	4.33	4.71	4.32	5.84	6.00	6.03	6.10	6.48	6.69
Buyers, sales, loan managers	1.34	1.28	1.40	1.34	1.35	1.53	1.47	1.53	2.12
Bank, financial managers	.11	.12	.13	.17	.18	.18	.16	.17	.16
Credit managers	.09	.05	.04	.05	.02	.01	.05	.02	.01
Purchasing agents, buyers, other	.51	.46	.48	.83	.81	.96	.73	.71	1.00
Sales manager, exc retail trade	.62	.66	.76	.29	.34	.38	.53	.63	.96
Other managers, officials, proprt	2.99	3.42	2.92	4.50	4.66	4.49	4.63	4.95	4.57
Office managers, other	.15	.16	.20	.09	.10	.09	.16	.17	.22
Restaurant, cafe, bar, managers	.00	.00	.00	.01	.01	.02	.01	.01	.00
Other managers, administrators	2.84	3.26	2.72	4.40	4.55	4.39	4.46	4.77	4.34
Sales workers	1.80	1.34	.41	.69	.60	.50	1.27	1.06	.53
Advertising agents, sales worker	.04	.05	.05	.02	.03	.04	.01	.01	.02
Other sales wrkrs	1.75	1.29	.36	.67	.57	.46	1.26	1.04	.51
Clerical workers	11.60	11.09	10.27	16.04	15.97	14.53	13.27	13.14	13.43
Stenographrs, typists, secretaries	3.51	3.25	3.01	5.20	4.86	4.59	4.44	4.21	4.31
Legal secretaries	.00	.00	.00	.03	.03	.04	.02	.02	.04
Other secretaries	2.60	2.51	2.42	3.70	3.65	3.65	3.34	3.31	3.58
Stenographers	.11	.08	.10	.12	.08	.05	.09	.07	.06
Typists	.80	.66	.50	1.34	1.09	.85	.99	.82	.63
Office machine operators	.86	.94	.69	1.50	1.75	1.46	1.01	1.19	.92
Bookkeeping and billing	.06	.04	.05	.06	.03	.04	.05	.03	.04
Calculating	.03	.03	.03	.06	.05	.06	.02	.02	.02
Computer and peripheral equip	.21	.45	.36	.47	.93	.81	.30	.64	.51
Duplicating	.03	.02	.03	.07	.06	.07	.04	.04	.05
Keypunch	.47	.36	.19	.72	.58	.41	.52	.41	.26
Tabulating	.02	.01	.00	.03	.01	.00	.03	.01	.00
Other office machine operators	.04	.03	.02	.10	.10	.08	.05	.05	.04
Other clerical workers	7.23	6.90	6.57	9.35	9.36	8.48	7.82	7.73	8.20
Billing clerks	.20	.22	.31	.14	.15	.15	.15	.17	.26
Bookkeepers	1.03	.98	.79	1.02	.94	.79	1.09	1.02	.83
Cashiers	.05	.06	.05	.07	.08	.08	.04	.04	.05
Clerical supervisors, other	.11	.12	.12	.22	.25	.29	.12	.14	.15
Collectors, bill and account	.01	.01	.00	.01	.01	.02	.01	.01	.00
Counter clerks, exc food	.29	.30	.31	.38	.39	.39	.22	.23	.25
Dispatchers, starters, vehicle	.02	.03	.05	.02	.02	.03	.02	.02	.04
Enumerators and interviewers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Estimators, investigators, other	.16	.20	.17	.32	.38	.36	.22	.27	.26
Expeditors, production controls	.75	.78	.89	1.42	1.62	1.79	1.11	1.20	1.47
File clerks	.21	.17	.17	.45	.37	.35	.28	.23	.21
Insurance adjusters, examiners	.00	.00	.00	.01	.01	.02	.00	.00	.00
Library attendants, assistants	.00	.00	.00	.05	.05	.01	.01	.01	.00
Mail handlers, exc post office	.15	.15	.18	.16	.16	.16	.11	.11	.13
Messengers and office helpers	.01	.01	.01	.03	.02	.01	.02	.01	.00
Payroll, timekeeping clerks	.44	.42	.23	.33	.32	.20	.36	.35	.20
Receptionists	.18	.18	.19	.14	.14	.15	.20	.19	.18
Shipping and receiving clerks	1.07	.95	.85	.72	.56	.40	1.11	.97	.85
Statistical clerks	.26	.29	.33	.59	.68	.70	.34	.40	.48
Stock clerks and store keepers	1.35	1.16	1.01	1.28	1.15	1.23	1.23	1.16	1.40
Telephone operators	.13	.07	.02	.20	.11	.04	.14	.08	.03
Weighers	.02	.02	.05	.01	.02	.04	.04	.04	.06
Misc clerical workers	.80	.79	.84	1.79	1.91	1.28	.99	1.07	1.34
Crafts and kindred workers	16.39	16.35	16.67	15.64	14.67	13.85	12.03	11.43	11.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Household appliances			Radio, tv, communicatn equipment			Other electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	1.89	1.78	1.60	1.24	1.09	1.03	1.52	1.40	1.11
Carpenters and apprentices	.25	.24	.20	.16	.13	.08	.17	.13	.04
Brick,stonemasons, apprentices	.03	.04	.05	.01	.01	.01	.01	.01	.01
Electricians and apprentices	.78	.69	.42	.76	.70	.71	.92	.88	.68
Excavating,grading mach operatrs	.01	.01	.00	.00	.00	.00	.01	.01	.01
Painters and apprentices	.52	.54	.69	.13	.14	.12	.23	.24	.32
Plumbers,pipefitters,aprentices	.28	.25	.23	.18	.11	.11	.16	.11	.03
Structural metal craft workers	.01	.01	.01	.00	.00	.00	.02	.02	.02
Blue collar worker supervisors	3.86	3.48	1.71	3.77	3.94	3.77	1.92	1.88	1.31
Metalworkg craft wrkrs,exc mecn	5.26	4.71	4.93	3.33	2.85	3.09	5.24	4.58	3.82
Boilermakers	.02	.01	.01	.01	.01	.02	.00	.00	.00
Heat treaters, annealers	.08	.06	.03	.03	.02	.01	.07	.06	.02
Forge and hammer operators	.02	.02	.02	.01	.01	.02	.03	.03	.02
Job and die setters, metal	1.37	1.16	1.12	.66	.58	.68	1.11	.97	1.04
Machinists and apprentices	1.02	1.16	1.69	1.02	1.02	1.12	1.79	1.77	1.55
Millwrights	.27	.26	.19	.14	.11	.11	.17	.14	.06
Molders, metal and apprentices	.44	.39	.36	.17	.13	.14	.43	.36	.28
Pattern and mcldmakers	.37	.24	.14	.38	.25	.22	.25	.16	.09
Rollers and finishers,metal	.02	.03	.05	.01	.01	.02	.05	.06	.09
Sheetmetal workers, apprentices	.43	.30	.12	.24	.17	.14	.31	.22	.09
Tool and diemakers, apprentices	1.24	1.07	1.20	.67	.53	.62	1.04	.81	.59
Mechanics,repairers,installers	4.72	5.82	7.99	2.40	2.34	2.51	2.65	3.00	4.52
Air cond, heating, refrig meca	.96	1.21	1.09	.06	.07	.06	.05	.07	.06
Aircraft mechanics	.01	.01	.01	.05	.03	.01	.02	.02	.01
Auto mechanics and apprentices	.10	.10	.10	.00	.00	.00	.11	.11	.15
Data processing mach repairers	.01	.01	.01	.10	.13	.17	.06	.08	.11
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.01
Heavy equip mech, incl diesel	1.90	2.46	3.99	.81	.98	1.29	1.68	2.03	2.62
Household appliance mechanics	1.36	1.61	2.32	.03	.03	.05	.05	.06	.08
Office machine repairers	.00	.00	.00	.03	.02	.03	.03	.02	.04
Radio, television repairers	.01	.01	.01	1.00	.73	.54	.19	.12	.91
Other mechanics and apprentices	.38	.41	.46	.32	.35	.38	.45	.49	.53
Printing trade crafts workers	.12	.11	.05	.20	.16	.06	.20	.16	.06
Bookbinders	.00	.00	.00	.01	.01	.01	.00	.00	.00
Compositors and typesetters	.06	.04	.00	.08	.05	.01	.10	.07	.01
Engravers exc photoengravers	.01	.01	.00	.02	.02	.00	.03	.03	.01
Photoengravers, lithographers	.01	.00	.00	.01	.01	.00	.01	.01	.00
Press,plate printers,aprentices	.04	.05	.05	.08	.08	.04	.05	.05	.04
Transport,public util craft wrks	.02	.02	.02	4.15	3.83	2.99	.03	.03	.04
Elec pwr line instaler,repairer	.01	.01	.01	.03	.03	.03	.02	.02	.03
Power station operators	.01	.01	.01	.01	.01	.02	.01	.01	.01
Telephone installers,repairers	.00	.00	.00	4.03	3.69	2.86	.00	.00	.00
Telephone line instalr,splicers	.00	.00	.00	.09	.10	.08	.00	.00	.00
Other crafts, kindred workers	.53	.45	.38	.56	.46	.40	.47	.39	.29
Cabinetmakers	.04	.04	.01	.09	.06	.01	.01	.01	.00
Crane,derrick,hoist operator	.17	.12	.07	.05	.03	.01	.19	.13	.08
Decorators, window dressers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.01	.00	.00	.02	.02	.03	.00	.00	.00
Inspectors, other	.04	.04	.02	.06	.06	.02	.03	.03	.01
Jewelers and watchmakers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Opticians,lens grinder,polisher	.00	.00	.00	.02	.02	.01	.01	.01	.01
Stationary engineers	.18	.16	.15	.23	.19	.19	.13	.11	.07
Upholsterers	.02	.02	.04	.00	.00	.00	.00	.00	.00
Other crafts workers	.06	.05	.05	.08	.09	.11	.09	.09	.11
Operatives	53.39	53.73	55.44	35.66	36.07	36.93	47.04	47.67	49.67
Operatives,except transport	50.82	50.73	51.37	35.05	35.51	36.32	46.05	46.64	48.57
Semiskilled metalworking	9.72	8.92	9.07	4.65	4.14	4.03	7.55	6.59	5.65
Drill press operatives	.46	.36	.33	.33	.26	.25	.60	.47	.44
Furnace tendrs,smeltrs,pourers	.17	.15	.12	.07	.07	.06	.26	.25	.24
Grinding machine operatives	.71	.59	.59	.21	.17	.19	.50	.42	.42
Heaters, metal	.01	.01	.00	.00	.00	.00	.01	.01	.00
Lathe,milling mach operatives	.48	.36	.41	.31	.23	.27	.86	.63	.61
Metal platers	.23	.25	.25	.25	.27	.29	.40	.42	.42
Other precision mach operators	.46	.38	.47	.19	.16	.16	.35	.29	.36
Punca,stamping press operatives	3.52	3.29	3.99	.85	.76	.84	1.50	1.37	1.56
Solderers	.32	.30	.19	1.76	1.56	1.26	1.14	.95	.41
Welders and flamecutters	3.36	3.24	2.72	.69	.66	.71	1.94	1.78	1.20

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Household appliances			Radio, tv, communicatn equipment			Other electrical machinery		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled packing, inspecting	7.18	6.41	4.90	8.34	7.72	6.97	8.89	7.86	5.82
Checkers, examiners, mfg	5.42	4.96	4.01	7.43	6.90	6.19	7.35	6.72	5.37
Graders and sorters, mfg	.06	.05	.01	.05	.04	.01	.07	.05	.01
Packer, wrapper, exc meat, prodce	1.70	1.40	.88	.86	.78	.77	1.47	1.10	.43
Other operatives, exc transport	33.93	35.41	37.41	22.07	23.65	25.32	29.62	32.19	37.11
Asbestos, insulation workers	.14	.18	.11	.00	.00	.00	.01	.01	.02
Assemblers	21.47	22.08	21.16	11.71	12.33	13.47	14.93	15.77	16.73
Cutting operatives, other	.49	.54	.71	.27	.30	.31	.58	.64	.86
Drillers, earth	.00	.00	.00	.00	.00	.00	.09	.09	.12
Dyers	.02	.01	.01	.00	.00	.00	.01	.01	.01
Filer, polisher, sander, buffer	1.13	1.16	1.47	.24	.26	.27	.35	.37	.49
Laundry, dry cleany oprs, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.14	.16	.25	.04	.05	.05	.13	.13	.13
Oilers, greasers, exc automobiles	.13	.09	.03	.03	.02	.00	.06	.05	.02
Painters, mfg articles	2.45	2.20	2.64	.48	.45	.46	.86	.79	1.05
Photographic process workers	.05	.04	.04	.13	.11	.07	.12	.11	.07
Riveters and fasteners	.20	.21	.29	.12	.13	.16	.13	.15	.20
Sawyers	.00	.00	.00	.04	.03	.01	.10	.08	.03
Sewers and stitchers	.33	.33	.57	.02	.02	.02	.06	.06	.11
Furnace tendr, stokr, exc metal	.13	.09	.07	.06	.03	.01	.11	.06	.02
Winding operatives, other	.50	.55	.73	.95	1.04	1.17	2.32	2.56	3.42
Miscellaneous machine operatves	4.08	4.60	5.66	3.24	3.49	3.51	5.60	6.37	7.97
Other operatives, exc transport	2.67	3.14	3.66	4.74	5.39	5.80	4.17	4.95	5.88
Transport equipment operatives	2.56	3.00	4.07	.61	.57	.62	.99	1.03	1.10
Delivery and route workers	.16	.13	.09	.06	.05	.03	.09	.07	.05
Fork lift, tow motor operatives	1.67	2.16	3.11	.28	.35	.48	.48	.61	.83
Rail vehicle operators, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.00	.00	.00	.04	.03	.01	.03	.02	.00
Truck drivers	.72	.70	.86	.24	.15	.10	.39	.32	.22
Service workers	2.03	1.92	1.93	1.69	1.48	1.29	1.85	1.70	1.52
Cleaning service workers	1.40	1.39	1.59	.92	.87	.79	1.24	1.22	1.24
Bldg interior cleaners, other	.18	.19	.21	.12	.13	.14	.18	.19	.20
Janitors and sextons	1.22	1.20	1.38	.80	.75	.66	1.06	1.03	1.04
Food service wrkrs	.14	.13	.16	.18	.13	.12	.14	.11	.12
Cooks, exc private households	.04	.03	.01	.03	.02	.01	.04	.02	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Food counter, fountain workers	.04	.05	.09	.04	.04	.02	.04	.04	.05
Waiters	.02	.01	.01	.03	.02	.01	.02	.01	.01
Other food serv wrks, exc privt	.03	.03	.05	.05	.05	.07	.04	.03	.06
Personal service workers	.02	.02	.02	.04	.04	.04	.04	.03	.02
Attendants, personal serv, other	.00	.00	.00	.03	.03	.03	.03	.02	.02
Elevator operators	.01	.01	.01	.01	.01	.01	.02	.01	.00
Housekeepers, exc private homes	.01	.01	.01	.00	.00	.00	.00	.00	.00
Protective service workers	.47	.38	.16	.55	.44	.34	.43	.34	.14
Firefighters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Guards	.46	.37	.16	.53	.42	.34	.41	.33	.13
Police and detectives	.00	.00	.00	.01	.01	.00	.01	.00	.00
Laborers, except farm	3.42	3.55	4.45	1.72	1.69	1.67	2.46	2.53	3.00
Carpenter helpers	.01	.01	.01	.02	.02	.02	.00	.00	.00
Constr labr, exc carpenter helpr	.04	.04	.04	.05	.04	.04	.08	.08	.08
Freight and material handlers	1.95	2.04	2.68	.81	.78	.79	1.17	1.23	1.65
Gardenrs, groundkeepers, exc farm	.02	.03	.05	.04	.05	.04	.05	.06	.08
Stock handlers	.51	.57	.60	.45	.49	.48	.45	.49	.51
Teamsters	.03	.02	.01	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	.18	.20	.21	.09	.09	.10	.17	.18	.17
Warehouse labrcrs, other	.13	.12	.14	.13	.11	.07	.09	.06	.02
Other laborers	.56	.54	.72	.14	.13	.14	.46	.43	.48

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation equipment			Motor vehicles, equipment			Aircraft and parts		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	14.36	13.45	11.45	7.86	8.23	7.45	26.04	27.11	27.30
Engineers, technical	6.93	5.90	5.43	2.99	2.84	2.73	14.15	13.85	15.77
Aeronautical	2.47	2.08	2.00	.01	.01	.01	7.03	7.28	9.19
Chemical	.06	.05	.04	.03	.03	.03	.12	.12	.11
Civil	.16	.10	.09	.04	.03	.04	.33	.25	.25
Electrical	1.03	.78	.64	.17	.16	.15	2.23	2.03	1.95
Industrial	.99	.95	.88	.75	.77	.75	1.61	1.64	1.74
Mechanical	1.76	1.56	1.45	1.69	1.58	1.50	2.08	1.88	1.96
Metallurgical	.11	.10	.08	.06	.06	.06	.20	.20	.18
Sales	.05	.04	.03	.05	.04	.03	.07	.05	.04
Other engineers	.30	.25	.22	.18	.16	.16	.47	.40	.36
Life and physical scientists	.20	.18	.15	.10	.10	.10	.35	.38	.36
Atmospheric and space	.01	.01	.01	.00	.00	.00	.02	.04	.04
Biological	.00	.01	.00	.00	.00	.00	.01	.02	.01
Chemists	.14	.12	.11	.09	.09	.10	.22	.22	.22
Physicists and astronomers	.04	.04	.03	.01	.01	.01	.09	.09	.06
Other life, physical scientists	.01	.01	.01	.00	.00	.00	.01	.01	.02
Mathematical specialists	.09	.08	.06	.06	.06	.05	.17	.17	.16
Mathematicians	.02	.02	.02	.01	.01	.01	.05	.07	.08
Statisticians	.06	.05	.04	.05	.05	.04	.12	.11	.09
Engineering, science technicians	2.74	2.42	1.99	1.68	1.58	1.37	4.44	4.44	4.15
Agricultural, biol, exc health	.01	.00	.00	.00	.00	.00	.01	.02	.02
Chemical technicians	.04	.04	.04	.03	.03	.03	.07	.07	.09
Drafters	1.10	.88	.74	.88	.73	.67	1.38	1.13	1.04
Electrical and electronic	.52	.45	.34	.06	.08	.09	1.10	1.19	1.06
Industrial engineering	.17	.18	.14	.08	.10	.10	.34	.41	.35
Mechanical engineering	.24	.26	.20	.29	.33	.29	.32	.34	.25
Other engineering, science technicians	.67	.60	.52	.33	.31	.21	1.22	1.27	1.33
Medical workers, exc technicians	.09	.09	.11	.11	.10	.13	.09	.09	.13
Physicians and osteopaths	.01	.01	.03	.01	.01	.02	.01	.01	.05
Registered nurses	.08	.08	.08	.10	.09	.11	.08	.08	.09
Health technologists, technicians	.02	.02	.02	.00	.00	.00	.02	.03	.03
Clinical lab technologists, technicians	.00	.00	.01	.00	.00	.00	.01	.01	.02
Other health technicians	.02	.02	.01	.00	.00	.00	.01	.01	.01
Technicians, except health	.17	.16	.12	.03	.04	.05	.39	.43	.36
Airplane pilots	.06	.07	.05	.01	.02	.01	.16	.21	.20
Flight engineers	.03	.02	.01	.00	.00	.00	.08	.06	.05
Radio operators	.01	.01	.00	.00	.00	.00	.01	.01	.00
Tool programmers, numerical	.03	.02	.02	.01	.01	.02	.07	.06	.03
Other technicians except health	.04	.04	.04	.01	.01	.02	.07	.09	.08
Computer specialists	.71	.80	.57	.40	.52	.46	1.37	1.70	1.25
Computer programmers	.43	.44	.32	.25	.29	.27	.82	.91	.72
Computer systems analysts	.23	.29	.21	.13	.20	.18	.44	.60	.42
Other computer specialists	.05	.07	.04	.02	.03	.02	.12	.20	.11
Social scientists	.18	.27	.23	.19	.29	.26	.24	.39	.35
Economists	.17	.26	.22	.19	.29	.26	.23	.36	.32
Psychologists	.01	.01	.01	.00	.00	.00	.01	.03	.03
Teachers	.06	.05	.02	.03	.03	.01	.07	.07	.02
Adult education	.06	.05	.02	.03	.03	.01	.07	.07	.02
Writers, artists, entertainers	.87	.99	.80	.54	.66	.56	1.36	1.56	1.26
Authors	.10	.11	.11	.03	.04	.04	.23	.26	.24
Designers	.30	.40	.37	.32	.39	.32	.12	.14	.16
Editors and reporters	.07	.07	.07	.02	.02	.02	.14	.17	.22
Painters and sculptors	.08	.08	.03	.00	.00	.00	.23	.27	.15
Photographers	.06	.05	.06	.02	.02	.04	.12	.12	.16
Public relations specialists	.07	.08	.07	.07	.08	.07	.08	.11	.08
Other writers, artists, entertainers	.20	.20	.10	.09	.10	.08	.43	.48	.25

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation equipment			Motor vehicles, equipment			Aircraft and parts		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.31	2.49	1.96	1.74	2.01	1.72	3.41	4.01	3.46
Accountants	1.08	1.22	1.19	.99	1.13	1.12	1.42	1.70	1.93
Architects	.06	.03	.03	.01	.01	.01	.02	.01	.01
Lawyers	.06	.09	.05	.06	.09	.05	.08	.14	.11
Librarians	.03	.02	.01	.01	.01	.01	.06	.04	.01
Operations and systems research	.53	.62	.40	.21	.29	.22	1.07	1.40	1.04
Personnel, labor relations wkrs	.46	.45	.27	.43	.45	.31	.60	.59	.32
Other research workers	.09	.06	.02	.05	.03	.02	.18	.12	.03
Vocation, education counselors	.00	.00	.00	.00	.00	.00	.01	.01	.02
Managers, officials, proprietors	4.32	5.07	5.34	3.12	3.70	3.86	5.61	6.87	6.79
Buyers, sales, loan managers	1.06	.97	1.11	.79	.74	.76	1.38	1.21	1.04
Bank, financial managers	.14	.12	.08	.09	.08	.07	.22	.19	.09
Credit managers	.02	.01	.02	.02	.01	.01	.01	.01	.01
Purchasing agents, buyers, other	.68	.58	.60	.41	.36	.34	1.02	.87	.78
Sales manager, exc retail trade	.23	.27	.41	.26	.29	.34	.14	.15	.17
Other managers, officials, proprts	3.27	4.10	4.22	2.33	2.96	3.10	4.23	5.66	5.75
Mgrs, superintendents, building	.01	.01	.01	.01	.01	.01	.01	.01	.02
Office managers, other	.11	.12	.16	.10	.10	.12	.09	.09	.09
Officers, pilots, pursers, ship	.02	.02	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	3.13	3.95	4.03	2.22	2.84	2.96	4.13	5.56	5.63
Sales workers	.62	.71	.95	.75	.81	1.10	.39	.46	.73
Other sales workers	.62	.71	.95	.74	.81	1.10	.39	.45	.73
Clerical workers	12.25	11.10	9.25	10.31	10.02	8.92	16.23	14.67	10.68
Stenographers, typists, secretaries	3.27	2.92	2.71	2.46	2.39	2.28	4.82	4.43	4.31
Legal secretaries	.02	.01	.01	.01	.01	.01	.03	.02	.01
Other secretaries	2.21	2.17	2.21	1.66	1.72	1.71	3.34	3.37	3.78
Stenographers	.17	.10	.06	.12	.10	.10	.24	.13	.03
Typists	.88	.64	.43	.66	.56	.46	1.21	.92	.49
Office machine operators	.98	1.04	.66	.92	1.01	.78	1.39	1.55	.80
Bookkeeping and billing	.03	.01	.01	.02	.01	.00	.04	.02	.01
Calculating	.04	.02	.01	.07	.04	.01	.02	.01	.01
Computer and peripheral equip	.30	.58	.39	.24	.52	.40	.47	.93	.60
Duplicating	.06	.04	.02	.03	.03	.02	.11	.08	.04
Key punch	.48	.34	.20	.49	.37	.31	.63	.42	.13
Tabulating	.02	.01	.00	.02	.01	.00	.02	.01	.00
Other office machine operators	.06	.05	.02	.05	.04	.03	.09	.08	.02
Other clerical workers	8.00	7.13	5.88	6.94	6.62	5.87	10.02	8.69	5.56
Billing clerks	.07	.09	.10	.11	.12	.11	.04	.04	.05
Bookkeepers	.80	.79	.81	.75	.75	.76	.77	.73	.63
Cashiers	.05	.05	.05	.06	.06	.07	.05	.05	.04
Clerical supervisors, other	.15	.14	.11	.13	.15	.14	.17	.13	.03
Collectors, bill and account	.01	.01	.00	.01	.00	.00	.01	.01	.02
Counter clerks, exc food	.12	.12	.11	.14	.14	.13	.11	.10	.05
Dispatchers, starters, vehicle	.04	.04	.05	.02	.02	.02	.06	.07	.07
Enumerators and interviewers	.01	.00	.00	.00	.00	.00	.01	.01	.00
Estimators, investigators, other	.40	.37	.23	.21	.23	.15	.44	.42	.14
Expeditors, production controls	1.46	1.31	1.08	.90	.92	.91	2.50	2.36	1.76
File clerks	.31	.23	.22	.19	.17	.18	.47	.36	.26
Library attendants, assistants	.03	.02	.01	.01	.01	.01	.07	.06	.01
Mail handlers, exc post office	.10	.10	.09	.10	.10	.09	.10	.09	.09
Messengers and office helpers	.02	.02	.01	.01	.01	.01	.02	.02	.01
Payroll, timekeeping clerks	.37	.38	.28	.36	.37	.28	.33	.31	.17
Receptionists	.11	.10	.07	.09	.08	.05	.11	.09	.05
Shipping and receiving clerks	.64	.64	.74	.86	.82	.98	.49	.44	.43
Statistical clerks	.39	.37	.26	.28	.31	.28	.62	.58	.29
Stock clerks and store keepers	1.60	1.20	.79	1.55	1.21	.82	1.84	1.36	.63
Telephone operators	.11	.07	.05	.09	.06	.05	.13	.10	.10
Weighers	.02	.03	.02	.03	.03	.03	.01	.01	.02
Misc clerical workers	1.21	1.09	.80	1.03	1.06	.82	1.65	1.35	.72
Crafts and kindred workers	26.73	25.82	27.63	20.78	19.60	21.11	23.73	24.43	29.74

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation equipment			Motor vehicles, equipment			Aircraft and parts		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	6.35	6.38	6.58	2.84	2.87	2.92	2.72	2.71	2.87
Carpenters and apprentices	2.06	2.32	2.27	.27	.29	.31	.28	.28	.23
Brick,stonemasons, apprentices	.03	.03	.02	.04	.03	.01	.02	.01	.00
Bulldozer operators	.04	.04	.05	.07	.06	.07	.01	.01	.03
Electricians and apprentices	1.93	1.88	2.10	1.24	1.33	1.56	1.59	1.62	1.71
Excavating,grading mach operatr	.02	.02	.02	.02	.01	.01	.01	.01	.02
Floor layers, exc tile setters	.07	.05	.11	.02	.01	.00	.01	.01	.01
Painters and apprentices	.90	.84	.62	.51	.42	.24	.44	.41	.36
Plumbers,pipefitters,apprentices	1.17	1.08	1.24	.67	.71	.71	.31	.31	.42
Roofers and slaters	.02	.03	.05	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.11	.09	.08	.01	.01	.01	.06	.05	.09
Tile setters	.02	.01	.03	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	3.02	3.12	3.11	1.26	1.26	.93	4.27	4.72	5.37
Metalworky craft wkrs,exc meca	8.20	7.51	7.84	7.83	7.33	7.46	8.80	8.52	10.51
Blacksmiths	.03	.02	.01	.02	.01	.00	.00	.00	.00
Boilermakers	.17	.13	.11	.01	.02	.04	.00	.00	.00
Heat treaters, annealers	.17	.17	.15	.22	.22	.20	.21	.21	.21
Forge and hammer operators	.10	.10	.09	.13	.13	.12	.09	.09	.10
Job and die setters, metal	1.01	.91	.76	1.96	1.61	1.28	.42	.36	.35
Machinists and apprentices	2.70	2.57	2.73	1.32	1.45	1.61	3.49	3.62	3.97
Millwrights	.46	.58	.57	.91	1.06	1.02	.15	.16	.18
Molders, metal and apprentices	.22	.24	.34	.24	.23	.27	.10	.11	.17
Pattern and mclmakers	.47	.36	.40	.48	.38	.44	.56	.45	.60
Rollers and finishers,metal	.03	.03	.04	.04	.04	.04	.01	.01	.02
Sheetmetal workers, apprentices	1.24	.96	.97	.37	.33	.37	1.99	1.79	2.24
Tool and diemakers, apprentices	1.60	1.45	1.69	2.15	1.88	2.08	1.79	1.72	2.65
Mechanics,repairers,installers	6.58	6.45	7.63	7.60	7.07	8.60	7.08	7.66	10.04
Air cond, heating, refrig meca	.13	.15	.18	.08	.11	.10	.14	.18	.18
Aircraft mechanics	1.83	1.62	1.77	.02	.02	.03	5.19	5.61	7.95
Auto accessories installers	.03	.03	.02	.08	.06	.03	.00	.00	.00
Auto body repairers	.14	.11	.10	.32	.23	.21	.00	.00	.00
Auto mechanics and apprentices	2.08	1.96	2.61	4.68	3.94	5.20	.14	.12	.07
Data processing mach repairers	.02	.02	.03	.01	.01	.01	.04	.05	.07
Farm implement mechanics	.00	.01	.01	.01	.01	.02	.00	.00	.00
Heavy equip mech, incl diesel	1.52	1.83	2.17	2.10	2.41	2.79	.89	1.02	1.03
Household appliance mechanics	.02	.03	.07	.01	.01	.01	.01	.01	.02
Office machine repairers	.01	.01	.02	.01	.00	.00	.02	.02	.05
Radio, television repairers	.22	.14	.18	.04	.03	.03	.20	.18	.21
Railroad, car shop repairers	.08	.11	.16	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.49	.44	.33	.25	.24	.15	.45	.47	.45
Printing trade crafts workers	.11	.12	.10	.08	.09	.10	.16	.16	.14
Compositors and typesetters	.04	.04	.03	.03	.04	.03	.04	.05	.04
Engravers exc photoengravers	.01	.01	.01	.00	.00	.00	.02	.03	.03
Photoengravers, lithographers	.01	.01	.00	.00	.00	.00	.02	.01	.01
Press,plate printers,apprentices	.05	.06	.06	.04	.05	.07	.08	.08	.05
Transport,public util craft wkrs	.06	.05	.05	.04	.04	.02	.03	.04	.05
Power station operators	.02	.02	.02	.03	.03	.01	.02	.02	.04
Telephone installers,repairers	.02	.02	.02	.01	.01	.01	.01	.01	.01
Other crafts, kindred workers	2.40	2.20	2.32	1.14	.94	1.08	.68	.63	.77
Cabinetmakers	.28	.30	.30	.01	.01	.01	.02	.02	.01
Carpet installers	.03	.04	.10	.01	.01	.01	.00	.00	.00
Crane,derrick,hoist operator	.49	.44	.58	.49	.42	.57	.18	.16	.28
Furniture and wood finishers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Glaziers	.04	.05	.07	.06	.07	.10	.01	.01	.02
Inspectors, other	.17	.19	.23	.09	.11	.14	.06	.08	.09
Opticians,lens grinder,polisher	.01	.01	.01	.00	.00	.00	.01	.01	.02
Shipfitters	.54	.49	.35	.00	.00	.00	.01	.01	.02
Sign painters and letterers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Stationary engineers	.19	.13	.08	.17	.08	.07	.22	.20	.20
Upholsterers	.15	.11	.10	.22	.14	.13	.10	.06	.04
Other crafts workers	.49	.43	.47	.09	.08	.05	.06	.07	.09
Operatives	36.09	38.56	41.15	49.79	51.00	52.63	25.15	24.09	23.43
Operatives,except transport	33.76	35.88	37.93	46.05	46.91	47.83	24.43	23.36	22.73

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation equipment			Motor vehicles, equipment			Aircraft and parts		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled metalworking	10.05	9.50	8.44	12.95	11.27	9.24	6.33	5.10	4.16
Drill press operatives	.53	.37	.19	.61	.42	.20	.57	.38	.17
Furnace tendrs, smeltrs, pourers	.22	.24	.27	.37	.39	.45	.10	.10	.09
Grinding machine operatives	1.29	.99	.62	1.77	1.35	.87	1.33	.99	.62
Heaters, metal	.03	.03	.01	.06	.05	.02	.02	.02	.02
Lathe, milling mach operatives	1.23	.81	.53	1.13	.75	.46	1.80	1.26	1.05
Metal platers	.15	.14	.08	.15	.12	.04	.20	.21	.18
Other precision mach operators	.48	.36	.25	.71	.50	.30	.43	.33	.32
Punch, stamping press operatives	1.52	1.31	1.00	3.02	2.30	1.59	.41	.33	.24
Solderers	.14	.09	.02	.14	.07	.00	.19	.16	.08
Welders and flamecutters	4.48	5.16	5.47	5.00	5.32	5.31	1.30	1.32	1.38
Semiskilled packing, inspecting	4.73	4.90	5.59	6.48	6.79	8.43	4.60	4.44	4.49
Checkers, examiners, mfg	4.20	4.39	5.05	5.66	5.98	7.46	4.25	4.16	4.32
Graders and scrtrs, mfg	.03	.03	.04	.04	.04	.05	.02	.02	.04
Packer, wrapper, exc meat, prodce	.50	.49	.50	.78	.77	.92	.33	.26	.12
Other operatives, exc transport	18.99	21.48	23.90	26.61	28.86	30.15	13.49	13.83	14.09
Asbestos, insulation workers	.10	.14	.13	.00	.00	.00	.02	.02	.03
Assemblers	9.62	11.83	14.68	15.54	18.20	21.32	6.59	7.29	9.14
Cutting operatives, other	.46	.52	.62	.57	.59	.59	.21	.21	.18
Drillers, earth	.05	.03	.01	.00	.00	.00	.14	.10	.02
Filer, polisher, sander, buffer	.81	.76	.58	1.20	1.06	.71	.69	.65	.60
Garage wrkr, gas station atten	.02	.01	.02	.03	.02	.02	.00	.00	.00
Mixing operatives	.07	.07	.08	.11	.11	.12	.05	.05	.03
Oilers, greasers, exc automobiles	.15	.17	.20	.25	.27	.37	.09	.08	.07
Painters, mfg articles	1.58	1.43	1.30	2.30	1.89	1.52	.76	.59	.39
Photographic process workers	.12	.11	.08	.05	.05	.03	.23	.22	.21
Riveters and fasteners	.30	.28	.29	.14	.14	.12	.48	.45	.39
Sailors and deckhands	.01	.01	.00	.00	.00	.00	.00	.00	.00
Sawyers	.20	.21	.22	.08	.09	.11	.13	.12	.08
Sewers and stitchers	.26	.26	.42	.39	.35	.44	.08	.07	.08
Furnace tendr, stokr, exc metal	.15	.09	.07	.14	.10	.08	.18	.12	.09
Winding operatives, other	.09	.09	.06	.12	.11	.07	.06	.05	.03
Miscellaneous machine operatves	2.50	2.70	2.42	3.26	3.40	3.01	2.05	2.08	1.74
Other operatives, exc transport	2.49	2.77	2.72	2.41	2.49	1.67	1.75	1.73	1.01
Transport equipment operatives	2.33	2.68	3.22	3.75	4.08	4.80	.73	.72	.70
Bus drivers	.01	.01	.00	.01	.01	.01	.01	.01	.00
Delivery and route workers	.12	.13	.20	.13	.13	.21	.07	.07	.11
Fork lift, tow motor operatives	1.07	1.31	1.29	1.98	2.20	1.96	.31	.32	.22
Parking attendants	.00	.01	.01	.01	.01	.01	.00	.00	.00
Railroad brake operators	.01	.01	.03	.01	.01	.02	.00	.00	.00
Railroad switch operators	.01	.02	.03	.02	.02	.04	.00	.00	.00
Taxicab drivers, chauffeurs	.19	.21	.20	.40	.40	.41	.03	.03	.01
Truck drivers	.89	.97	1.45	1.19	1.29	2.17	.31	.30	.36
Service workers	2.36	2.12	1.47	2.97	2.60	1.77	1.84	1.55	.91
Cleaning service workers	1.42	1.27	.77	1.99	1.68	.86	.94	.76	.34
Bldg interior cleaners, other	.25	.24	.16	.37	.31	.13	.11	.11	.06
Janitors and sextons	1.17	1.03	.62	1.62	1.37	.73	.83	.66	.28
Food service wrkrs	.14	.11	.08	.14	.11	.08	.17	.14	.12
Cooks, exc private households	.04	.03	.02	.04	.03	.03	.04	.03	.02
Dishwashers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Food counter, fountain workers	.04	.03	.03	.03	.03	.01	.06	.06	.07
Waiters	.02	.01	.01	.02	.01	.01	.02	.01	.01
Other food serv wrks, exc privt	.03	.02	.01	.04	.03	.02	.04	.03	.01
Personal service workers	.03	.03	.03	.06	.05	.03	.01	.01	.03
Flight attendants	.00	.00	.01	.00	.00	.00	.01	.01	.03
Attendants, personal serv, other	.01	.01	.00	.02	.01	.01	.00	.00	.00
Elevator operators	.01	.01	.01	.02	.02	.01	.00	.00	.00
Housekeepers, exc private homes	.01	.01	.01	.02	.02	.02	.00	.00	.00
Protective service workers	.76	.70	.59	.78	.76	.80	.71	.64	.42
Firefighters	.05	.04	.03	.02	.02	.02	.05	.05	.04
Guards	.69	.66	.56	.75	.74	.77	.65	.59	.38
Police and detectives	.02	.01	.01	.01	.01	.01	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation equipment			Motor vehicles, equipment			Aircraft and parts		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	3.28	3.17	2.77	4.41	4.06	3.16	1.01	.82	.43
Carpenter helpers	.11	.10	.16	.02	.02	.05	.01	.01	.03
Constr labr,exc carpenter helpr	.25	.20	.17	.07	.05	.03	.09	.06	.02
Freight and material handlers	1.00	1.04	1.08	1.67	1.60	1.48	.39	.34	.23
Gardenrs,groundkeepers,exc farm	.04	.04	.04	.04	.04	.03	.04	.04	.03
Longshore workers, stevedores	.03	.04	.07	.00	.00	.00	.00	.00	.00
Stock handlers	.55	.57	.31	1.09	1.02	.49	.16	.13	.05
Teamsters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Vehicle washers,equip cleaners	.35	.32	.20	.48	.41	.28	.11	.10	.04
Warehouse labcrers, other	.12	.10	.10	.08	.09	.14	.05	.04	.01
Other laborers	.81	.74	.65	.95	.81	.65	.17	.10	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Ship,boat building and repair			Railroad equipment			Mobile dwellings		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	10.65	9.70	9.74	8.50	8.69	7.52	2.20	2.38	2.60
Engineers,technical	4.13	3.43	3.89	3.13	2.84	2.42	.43	.44	.58
Aeronautical	.04	.05	.05	.03	.02	.00	.00	.00	.00
Chemical	.03	.02	.04	.02	.02	.01	.00	.00	.00
Civil	.13	.08	.08	.10	.05	.00	.04	.02	.00
Electrical	1.14	.79	.94	.40	.39	.39	.03	.04	.07
Industrial	.56	.53	.53	.68	.74	.74	.18	.21	.30
Mechanical	1.87	1.65	1.97	.96	.80	.45	.08	.07	.06
Metallurgical	.08	.06	.05	.07	.09	.18	.00	.00	.00
Sales	.02	.01	.01	.10	.04	.00	.02	.01	.00
Other engineers	.28	.22	.22	.79	.70	.65	.09	.09	.14
Life and physical scientists	.21	.14	.10	.10	.12	.18	.01	.01	.02
Chemists	.12	.07	.04	.10	.12	.15	.01	.01	.02
Physicists and astronomers	.07	.06	.05	.00	.00	.03	.00	.00	.00
Other life,physical scientists	.02	.01	.01	.00	.00	.00	.00	.00	.00
Mathematical specialists	.02	.01	.02	.03	.02	.01	.00	.00	.00
Mathematicians	.01	.01	.01	.01	.01	.01	.00	.00	.00
Statisticians	.01	.01	.01	.01	.01	.01	.00	.00	.00
Engineering,science technicians	2.71	2.16	1.89	1.94	1.94	2.32	.52	.50	.66
Chemical technicians	.02	.02	.02	.00	.00	.00	.00	.00	.00
Drafters	1.23	1.00	.68	1.32	1.09	.88	.44	.40	.54
Electrical and electronic	.69	.52	.44	.13	.16	.20	.02	.02	.03
Industrial engineering	.08	.07	.07	.09	.15	.25	.01	.02	.01
Mechanical engineering	.04	.03	.02	.01	.02	.03	.00	.00	.00
Surveyors	.05	.03	.05	.00	.00	.00	.00	.00	.00
Other engineering,science tech	.61	.50	.61	.39	.53	.96	.05	.06	.08
Medical workers,exc technicians	.07	.07	.10	.13	.08	.02	.05	.03	.01
Physicians and osteopaths	.01	.01	.05	.02	.01	.02	.01	.00	.00
Registered nurses	.05	.06	.05	.11	.06	.01	.04	.03	.01
Health technologists,technicians	.12	.12	.09	.00	.00	.00	.01	.01	.01
Clinical lab technologists,tech	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other health technicians	.11	.11	.07	.00	.00	.00	.01	.01	.01
Technicians,except health	.12	.12	.15	.04	.04	.02	.00	.00	.00
Airplane pilots	.01	.02	.04	.01	.01	.01	.00	.00	.00
Radio operators	.02	.02	.01	.01	.01	.01	.00	.00	.00
Tool programers,numerical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.08	.07	.10	.02	.02	.01	.00	.00	.00
Computer specialists	.33	.37	.40	.31	.41	.34	.03	.05	.07
Computer programers	.21	.21	.21	.19	.20	.14	.01	.01	.02
Computer systems analysts	.11	.14	.16	.10	.16	.17	.01	.01	.02
Other computer specialists	.01	.02	.02	.03	.05	.04	.01	.02	.02
Social scientists	.05	.11	.09	.11	.18	.18	.02	.02	.01
Economists	.04	.10	.09	.11	.18	.18	.02	.02	.01
Teachers	.11	.08	.04	.03	.03	.01	.02	.02	.02
Adult education	.11	.08	.04	.03	.03	.01	.02	.02	.02
Writers,artists,entertainers	.89	1.31	1.40	.53	.62	.49	.27	.32	.29
Athletes and kindred workers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Authors	.07	.13	.26	.04	.03	.01	.00	.00	.00
Designers	.65	.99	.95	.32	.38	.29	.20	.23	.21
Editors and reporters	.05	.07	.08	.02	.02	.01	.01	.01	.01
Photographers	.04	.03	.05	.04	.03	.01	.00	.00	.00
Public relations specialists	.02	.02	.03	.06	.07	.04	.06	.08	.07
Other writers,artists,entertain	.04	.05	.03	.06	.11	.14	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Ship,boat building and repair			Railroad equipment			Mobile dwellings		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.88	1.78	1.57	2.16	2.41	1.53	.85	.98	.94
Accountants	.68	.79	.85	1.17	1.24	.74	.65	.75	.73
Architects	.36	.17	.15	.00	.00	.00	.00	.00	.00
Lawyers	.01	.02	.01	.10	.11	.01	.00	.00	.00
Librarians	.03	.02	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.37	.44	.35	.41	.57	.48	.02	.03	.02
Personnel, labor relations wkrs	.38	.31	.20	.43	.45	.26	.15	.16	.14
Other research workers	.03	.02	.01	.04	.04	.03	.02	.03	.05
Recreation workers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Managers, officials, proprietors	3.54	4.63	4.81	3.25	3.48	2.78	7.98	8.94	9.90
Buyers, sales, loan managers	.67	.67	.63	.95	.96	1.17	2.19	2.23	2.98
Bank, financial managers	.09	.08	.06	.06	.06	.06	.16	.16	.15
Credit managers	.01	.01	.02	.03	.01	.00	.03	.02	.04
Purchasing agents, buyers, other	.47	.44	.42	.58	.53	.57	1.27	1.17	1.43
Sales manager, exc retail trade	.10	.14	.14	.28	.35	.54	.74	.87	1.35
Other managers, officials, proprts	2.87	3.96	4.18	2.29	2.52	1.61	5.79	6.71	6.93
Mgrs, superintendents, building	.01	.01	.01	.00	.00	.00	.01	.01	.01
Office managers, other	.12	.14	.13	.05	.06	.07	.31	.35	.50
Officers, pilots, pursers, ship	.08	.09	.09	.00	.00	.00	.00	.00	.00
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other managers, administrators	2.66	3.71	3.94	2.23	2.45	1.54	5.47	6.36	6.42
Sales workers	.29	.40	.46	.50	.38	.12	2.04	1.86	1.48
Advertising agents, sales worker	.00	.00	.00	.01	.01	.01	.01	.01	.00
Other sales workers	.29	.40	.46	.49	.37	.10	2.04	1.86	1.48
Clerical workers	10.48	9.33	9.15	10.74	10.77	10.79	6.28	6.28	7.19
Stenographs, typists, secretaries	2.36	2.03	2.12	2.92	2.70	2.50	2.07	2.02	2.18
Legal secretaries	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other secretaries	1.20	1.36	1.64	2.08	2.07	2.03	1.88	1.88	2.06
Stenographers	.18	.08	.04	.19	.07	.00	.04	.02	.01
Typists	.96	.57	.42	.65	.56	.47	.16	.13	.11
Office machine operators	.54	.58	.44	.71	.77	.61	.14	.16	.19
Bookkeeping and billing	.03	.01	.01	.04	.02	.02	.04	.02	.05
Calculating	.01	.01	.01	.03	.02	.03	.00	.00	.00
Computer and peripheral equip	.18	.34	.31	.15	.33	.24	.03	.08	.11
Duplicating	.03	.02	.01	.06	.07	.14	.01	.01	.01
Keypunch	.27	.18	.09	.42	.33	.17	.07	.05	.03
Tabulating	.00	.00	.00	.02	.01	.00	.00	.00	.00
Other office machine operators	.03	.02	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Ship, boat building and repair			Railroad equipment			Mobile dwellings		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	7.58	6.72	6.58	7.10	7.31	7.69	4.07	4.10	4.82
Billing clerks	.04	.04	.05	.18	.22	.35	.06	.06	.08
Bookkeepers	.86	.90	1.02	.65	.64	.61	1.08	1.05	1.06
Cashiers	.03	.03	.02	.01	.01	.02	.01	.01	.01
Clerical supervisors, other	.21	.18	.18	.16	.18	.15	.00	.00	.00
Counter clerks, exc food	.09	.09	.11	.18	.22	.33	.06	.06	.07
Dispatchers, starters, vehicle	.02	.02	.03	.00	.00	.00	.08	.09	.16
Estimators, investigators, other	.98	.84	.82	.37	.45	.40	.04	.05	.07
Expeditors, production controirs	1.07	.99	.98	1.12	1.26	1.57	.34	.40	.59
File clerks	.37	.29	.42	.15	.13	.13	.03	.04	.06
Library attendants, assistants	.03	.02	.01	.02	.02	.01	.00	.00	.00
Mail handlers, exc post office	.14	.10	.09	.12	.13	.14	.04	.04	.07
Messengers and office helpers	.04	.03	.02	.02	.02	.01	.01	.01	.01
Payroll, timekeeping clerks	.46	.48	.44	.73	.72	.39	.19	.22	.22
Receptionists	.07	.08	.04	.11	.12	.14	.26	.25	.26
Shipping and receiving clerks	.25	.28	.32	.58	.47	.29	.81	.75	.80
Statistical clerks	.27	.27	.27	.33	.37	.35	.07	.08	.08
Stock clerks and store keepers	1.49	.99	.62	1.40	1.35	1.60	.71	.68	.87
Telephone operators	.11	.06	.02	.06	.03	.01	.01	.01	.01
Weighers	.02	.03	.03	.03	.04	.04	.00	.00	.00
Misc clerical workers	1.03	.98	1.11	.89	.97	1.16	.27	.30	.39
Crafts and kindred workers	48.01	46.91	48.49	27.08	26.32	25.23	39.33	37.12	30.39
Construction crafts workers	20.29	20.92	19.89	7.21	6.35	5.42	22.93	20.91	14.99
Carpenters and apprentices	7.95	9.75	8.74	1.21	1.14	.70	14.30	13.02	7.77
Brick, stonemasons, apprentices	.04	.05	.08	.04	.04	.04	.00	.00	.00
Bulldozer operators	.03	.03	.06	.04	.04	.07	.01	.01	.02
Cement and concrete finishers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Electricians and apprentices	4.34	3.88	4.16	1.80	1.70	1.15	3.66	3.62	3.39
Excavating, grading mach operatr	.05	.05	.05	.02	.02	.02	.00	.00	.00
Floor layers, exc tile setters	.02	.01	.00	.02	.01	.01	1.11	.80	.89
Painters and apprentices	3.27	3.19	2.03	1.13	1.22	1.58	.45	.49	.67
Paperhangers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Plasterers and apprentices	.01	.01	.02	.00	.00	.00	.00	.00	.00
Plumbers, pipefitters, apprentices	4.27	3.74	4.67	1.05	.71	.19	2.69	2.22	1.57
Roofers and slaters	.00	.00	.00	.00	.00	.00	.46	.55	.43
Structural metal craft workers	.26	.17	.05	1.91	1.47	1.66	.03	.02	.02
Tile setters	.04	.02	.02	.00	.00	.00	.21	.17	.24
Blue collar worker supervisors	4.34	5.10	6.05	4.64	4.65	3.22	4.19	4.44	4.39
Metalworkg craft wrkrs, exc meca	10.05	8.75	10.67	6.38	5.95	5.12	3.14	2.78	2.92
Blacksmiths	.11	.07	.03	.19	.14	.03	.00	.00	.00
Boilermakers	1.08	.87	.65	.15	.15	.19	.00	.00	.00
Heat treaters, annealers	.02	.01	.01	.07	.05	.01	.00	.00	.00
Forge and hammer operators	.03	.03	.05	.26	.24	.18	.02	.02	.01
Job and die setters, metal	.03	.03	.02	.42	.38	.43	.22	.21	.27
Machinists and apprentices	5.70	5.26	7.32	2.94	2.98	2.66	.17	.19	.23
Millwrights	.06	.10	.15	.41	.37	.15	.06	.07	.11
Molders, metal and apprentices	.30	.35	.45	.39	.36	.37	.71	.69	.89
Pattern and moldmakers	.38	.30	.30	.29	.20	.14	.03	.02	.03
Rollers and finishers, metal	.03	.04	.02	.05	.04	.01	.05	.06	.09
Sheetmetal workers, apprentices	2.09	1.50	1.28	.32	.25	.14	1.73	1.40	1.11
Tool and diemakers, apprentices	.24	.19	.37	.91	.80	.81	.15	.14	.17
Mechanics, repairers, installers	4.48	4.01	4.86	5.28	6.40	9.19	1.33	1.60	2.28
Air cond, heating, refriy meca	.25	.24	.36	.12	.15	.14	.15	.24	.34
Aircraft mechanics	.11	.14	.23	.00	.00	.00	.00	.00	.00
Auto body repairers	.00	.00	.00	.02	.01	.01	.01	.01	.01
Auto mechanics and apprentices	.20	.13	.10	.26	.29	.44	.24	.23	.29
Data processing mach repairers	.03	.02	.04	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	1.61	1.94	2.59	1.71	2.14	2.83	.39	.49	.79
Household appliance mechanics	.02	.01	.01	.00	.00	.00	.32	.37	.53
Office machine repairers	.02	.02	.04	.00	.00	.00	.01	.01	.01
Radio, television repairers	.92	.49	.89	.03	.02	.01	.00	.00	.00
Railroad, car shop repairers	.02	.03	.07	2.72	3.30	5.22	.00	.00	.00
Other mechanics and apprentices	1.31	1.00	.53	.43	.48	.55	.22	.25	.31
Printing trade crafts workers	.11	.12	.16	.36	.30	.09	.02	.01	.00
Bookbinders	.00	.00	.00	.06	.04	.00	.00	.00	.00
Compositors and typesetters	.05	.05	.07	.12	.10	.00	.01	.01	.00
Electrotypers and stereotypers	.00	.00	.00	.01	.00	.00	.01	.00	.00
Engravers exc photoengravers	.01	.01	.01	.02	.02	.00	.00	.00	.00
Photoengravers, lithographers	.00	.00	.00	.03	.02	.00	.00	.00	.00
Press, plate printers, apprentices	.04	.06	.09	.12	.13	.09	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Ship,boat building and repair			Railroad equipment			Mobile dwellings		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport,public util craft wkrs	.15	.12	.12	.26	.23	.31	.03	.02	.02
Elec pwr line instaler,repairer	.02	.01	.01	.00	.00	.00	.02	.02	.01
Locomotive engineers	.01	.01	.01	.12	.08	.01	.00	.00	.00
Locomotive engineers' helpers	.00	.00	.00	.04	.07	.29	.00	.00	.00
Power station operators	.01	.01	.01	.07	.04	.00	.00	.00	.00
Telephone installers,repairers	.11	.08	.08	.02	.02	.01	.01	.01	.01
Telephone line instalr,splicers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other crafts, kindred workers	8.59	7.89	6.74	2.94	2.44	1.89	7.69	7.35	5.79
Bakers	.01	.01	.03	.00	.00	.00	.02	.02	.00
Cabinetmakers	.09	.10	.04	.02	.02	.01	5.46	4.86	2.47
Carpet installers	.02	.03	.02	.00	.00	.00	.47	.60	.82
Crane,derrick,hoist operator	1.16	1.04	1.50	1.87	1.46	1.26	.04	.04	.06
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.03	.05	.06
Furniture and wood finishers	.02	.02	.01	.00	.00	.00	.09	.10	.16
Glaziers	.01	.01	.03	.00	.00	.00	.14	.15	.15
Inspectors, other	.64	.68	.97	.65	.60	.23	.03	.03	.02
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Opticians,lens grinder,polisher	.02	.02	.04	.00	.00	.00	.01	.00	.00
Shipfitters	3.68	3.56	2.60	.04	.04	.05	.00	.00	.00
Sign painters and letterers	.03	.02	.01	.01	.01	.01	.01	.01	.00
Stationary engineers	.25	.16	.04	.20	.17	.13	.03	.02	.01
Tailors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Upholsterers	.13	.11	.10	.03	.02	.01	.05	.04	.07
Other crafts workers	2.49	2.11	1.33	.12	.13	.19	1.32	1.44	1.98
Operatives	20.61	23.41	23.34	42.04	42.75	45.70	35.01	36.90	42.31
Operatives,except transport	19.29	21.99	21.29	39.99	40.52	43.15	30.47	33.02	39.46
Semiskilled metalworking	10.05	11.61	12.20	20.90	20.11	19.41	3.91	3.98	4.71
Drill press operatives	.16	.09	.03	1.09	.90	.87	.06	.05	.05
Furnace tendrs,smeltrs,pourers	.08	.08	.07	.38	.38	.32	.05	.05	.09
Grinding machine operatives	.17	.13	.09	1.45	1.23	1.18	.06	.05	.05
Heaters, metal	.01	.01	.00	.08	.05	.01	.00	.00	.00
Lathe,milling mach operatives	.43	.28	.19	1.94	1.43	1.23	.11	.09	.12
Metal platers	.04	.03	.01	.13	.15	.16	.05	.05	.07
Other precision mach operators	.05	.04	.01	.44	.39	.53	.03	.03	.06
Punch,stamping press operatives	.14	.11	.05	1.52	1.48	1.91	.25	.24	.29
Solderers	.03	.02	.01	.08	.07	.03	.02	.01	.00
Welders and flamecutters	8.93	10.83	11.73	13.80	14.05	13.19	3.28	3.41	3.97
Semiskilled packing, inspecting	1.13	1.12	1.44	4.03	3.84	3.47	1.42	1.41	1.58
Checkers, examiners, mfg	.97	1.02	1.37	3.48	3.44	3.35	1.35	1.36	1.56
Graders and scrtrs, mfg	.02	.02	.04	.04	.03	.01	.00	.00	.00
Packer,wrapper,exc meat,prodce	.15	.08	.03	.51	.38	.11	.07	.06	.02
Other operatives, exc transport	8.11	9.26	7.65	15.06	16.56	20.28	25.14	27.63	33.17
Asbestos,insulation workers	.62	.88	.77	.00	.00	.00	.19	.26	.20
Assemblers	.86	1.25	1.36	3.78	4.21	4.91	8.10	9.48	13.89
Bottling,canning operatives	.01	.02	.04	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.31	.37	.34	.85	.97	1.28	1.45	1.48	1.54
Dry wall installers, lathers	.00	.00	.00	.00	.00	.00	.02	.03	.01
Dyers	.00	.00	.00	.03	.02	.01	.00	.00	.00
Filer,polisher,sander,buffer	.25	.24	.10	.08	.10	.19	.34	.37	.52
Garage wrkr,gas station atten	.02	.01	.02	.02	.02	.01	.04	.04	.06
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.01	.01	.01	.04	.04	.06	.03	.04	.10
Oilers,greasers,exc automobiles	.08	.06	.03	.17	.12	.02	.01	.01	.01
Painters, mfg articles	1.30	1.27	.95	2.60	2.53	3.57	1.21	1.11	1.43
Photographic process workers	.12	.12	.12	.11	.13	.16	.02	.02	.02
Riveters and fasteners	.16	.19	.18	1.10	1.23	1.69	.35	.40	.62
Sailors and deckhands	.06	.05	.03	.00	.00	.00	.00	.00	.00
Sawyers	.08	.09	.08	.18	.15	.06	2.27	2.00	1.20
Sewers and stitchers	.10	.11	.12	.16	.15	.19	.87	.81	1.24
Furnace tendr,stokr,exc metal	.13	.08	.09	.10	.04	.01	.04	.02	.01
Winding operatives, other	.02	.02	.02	.43	.47	.58	.01	.00	.00
Miscellaneous machine operatives	1.63	1.84	1.65	3.02	3.44	4.02	1.33	1.45	1.61
Other operatives,exc transport	2.35	2.64	1.72	2.41	2.96	3.55	8.87	10.12	10.73

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Ship, boat building and repair			Railroad equipment			Mobile dwellings		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport equipment operatives	1.33	1.42	2.06	2.06	2.24	2.55	4.54	3.88	2.84
Boat operators	.05	.07	.07	.02	.01	.01	.00	.00	.00
Bus drivers	.02	.02	.01	.00	.00	.00	.03	.04	.00
Delivery and route workers	.07	.08	.08	.08	.08	.10	.60	.52	.55
Fork lift,tow motor operatives	.35	.38	.45	1.08	1.31	1.49	.72	.90	1.24
Rail vehicle operators, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Railroad brake operators	.02	.03	.08	.11	.14	.28	.00	.00	.00
Railroad switch operators	.00	.00	.00	.15	.21	.45	.00	.00	.00
Taxicab drivers, chauffeurs	.06	.04	.00	.08	.05	.01	.07	.04	.00
Truck drivers	.75	.80	1.36	.56	.43	.20	3.12	2.38	1.05
Service workers	1.92	1.68	1.01	1.78	1.71	1.41	2.60	2.37	1.81
Cleaning service workers	.81	.75	.39	1.16	1.11	.91	1.88	1.76	1.51
Bldg interior cleaners, other	.14	.14	.04	.29	.30	.27	.46	.48	.53
Janitors and sextons	.67	.62	.35	.87	.82	.64	1.42	1.28	.98
Food service workers	.14	.11	.11	.11	.09	.09	.00	.00	.00
Cooks,exc private households	.05	.04	.02	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.02	.02	.05	.04	.04	.03	.00	.00	.00
Waiters	.03	.02	.02	.03	.02	.01	.00	.00	.00
Other food serv wkr,exc privt	.03	.03	.02	.03	.02	.04	.00	.00	.00
Health service workers	.02	.02	.04	.01	.01	.02	.00	.00	.00
Health aides, except nursing	.01	.01	.02	.01	.01	.02	.00	.00	.00
Nursing aides and orderlies	.02	.01	.02	.00	.00	.00	.00	.00	.00
Personal service workers	.03	.03	.02	.02	.02	.02	.01	.01	.01
Elevator operators	.01	.01	.01	.02	.02	.02	.00	.00	.00
Housekeepers, exc private homes	.02	.01	.01	.00	.00	.00	.01	.01	.01
Protective service workers	.91	.77	.45	.49	.48	.39	.72	.60	.29
Firefighters	.17	.09	.04	.00	.00	.00	.00	.00	.00
Guards	.68	.65	.40	.48	.47	.39	.71	.60	.29
Police and detectives	.06	.03	.02	.01	.01	.00	.01	.01	.00
Laborers, except farm	4.51	3.93	3.01	6.11	5.90	6.44	4.56	4.16	4.33
Carpenter helpers	.23	.24	.25	.15	.14	.19	1.23	.93	.78
Constr labr,exc carpenter helpr	.98	.72	.39	.33	.30	.25	.97	.89	.82
Freight and material handlers	.44	.45	.44	.93	.99	1.28	1.23	1.25	1.57
Gardenrs,groundkeepers,exc farm	.05	.04	.06	.04	.04	.05	.02	.02	.03
Longshore workers, stevedores	.20	.28	.50	.00	.00	.00	.00	.00	.00
Stock handlers	.09	.09	.03	.29	.34	.35	.19	.21	.21
Teamsters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Vehicle washers,equip cleaners	.67	.60	.24	.29	.32	.34	.09	.10	.12
Warehouse labcrers, other	.43	.26	.16	.09	.07	.02	.07	.06	.05
Other laborers	1.42	1.26	.96	3.98	3.69	3.95	.75	.68	.74

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cycles, misc trans- portation			Professional scientific instruments			Scientific instruments		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	6.26	6.27	5.68	16.55	16.98	15.56	19.21	19.37	17.51
Engineers,technical	2.43	2.15	1.78	5.76	5.09	4.48	7.96	7.28	6.61
Aeronautical	.08	.05	.01	.08	.08	.06	.19	.19	.18
Chemical	.03	.02	.01	.17	.17	.18	.06	.06	.05
Civil	.04	.02	.01	.05	.04	.05	.04	.03	.03
Electrical	.24	.21	.15	1.42	1.25	1.07	2.35	2.17	1.92
Industrial	.36	.43	.64	1.23	1.21	1.01	1.50	1.54	1.43
Mechanical	1.47	1.23	.77	1.11	.98	.92	1.39	1.24	1.10
Metallurgical	.08	.05	.01	.05	.05	.06	.10	.10	.12
Sales	.02	.01	.01	.22	.14	.09	.46	.33	.27
Other engineers	.14	.13	.19	1.41	1.17	1.04	1.86	1.61	1.51
Life and physical scientists	.05	.06	.10	.76	.78	.73	.46	.50	.48
Atmospheric and space	.00	.00	.00	.02	.03	.03	.03	.07	.09
Biological	.00	.00	.00	.04	.07	.06	.02	.03	.02
Chemists	.05	.06	.07	.51	.49	.48	.20	.20	.20
Geologists	.00	.00	.00	.01	.01	.02	.03	.03	.04
Physicists and astronomers	.00	.00	.03	.17	.17	.14	.14	.13	.11
Other life,physical scientists	.00	.00	.00	.01	.01	.00	.04	.03	.01
Mathematical specialists	.00	.00	.00	.06	.06	.05	.06	.05	.03
Mathematicians	.00	.00	.00	.02	.02	.01	.04	.03	.00
Statisticians	.00	.00	.00	.04	.04	.04	.02	.02	.03
Engineering,science technicians	1.45	1.36	1.51	4.67	4.59	4.61	5.64	5.64	5.80
Agricultural,biolgcsl,exc health	.00	.00	.00	.02	.03	.05	.04	.05	.09
Chemical technicians	.00	.00	.00	.21	.23	.27	.08	.10	.17
Drafters	1.00	.82	.75	1.31	1.07	1.11	1.95	1.60	1.52
Electrical and electronic	.08	.09	.09	.99	1.07	1.15	1.70	1.91	2.00
Industrial engineering	.02	.02	.02	.18	.23	.25	.14	.20	.29
Mechanical engineering	.05	.05	.07	.09	.11	.14	.12	.15	.19
Other engineering,science tech	.32	.38	.57	1.87	1.85	1.64	1.61	1.62	1.54
Medical workers,exc technicians	.03	.02	.01	.12	.13	.19	.08	.07	.03
Dentists	.00	.00	.00	.01	.01	.03	.00	.00	.00
Optometrists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.02	.03	.08	.00	.00	.00
Registered nurses	.03	.02	.01	.08	.07	.05	.07	.06	.03
Health technolgcsl,technicians	.02	.02	.00	.40	.76	.63	.05	.07	.07
Clinical lab technologists,tech	.00	.00	.00	.02	.02	.03	.02	.03	.03
Radiologic technologists,teca	.02	.02	.00	.00	.00	.00	.00	.00	.00
Other health technicians	.00	.00	.00	.38	.74	.59	.02	.04	.03
Technicians,except health	.02	.01	.00	.11	.13	.14	.17	.23	.28
Airplane pilots	.00	.00	.00	.01	.02	.02	.02	.03	.05
Tool programers,numerical	.00	.00	.00	.02	.02	.01	.05	.05	.04
Other technicians except health	.02	.01	.00	.07	.09	.11	.11	.15	.19
Computer specialists	.17	.21	.25	.77	.97	.89	.81	1.06	.99
Computer programers	.15	.18	.22	.46	.52	.51	.46	.54	.53
Computer systems analysts	.02	.03	.03	.27	.37	.34	.30	.43	.39
Other computer specialists	.00	.00	.00	.04	.07	.04	.06	.10	.07
Social scientists	.10	.19	.26	.33	.53	.58	.24	.39	.46
Economists	.10	.19	.26	.32	.52	.57	.24	.39	.46
Teachers	.00	.00	.00	.05	.05	.04	.04	.04	.03
Adult education	.00	.00	.00	.05	.05	.04	.04	.04	.03
Writers,artists,entertainers	.84	.99	.85	1.02	1.12	.97	1.13	1.22	.79
Designers	.58	.68	.59	.53	.58	.46	.66	.71	.46
Editors and reporters	.04	.03	.01	.15	.15	.15	.12	.12	.07
Photographers	.05	.03	.01	.07	.07	.10	.00	.00	.00
Public relations specialists	.09	.11	.08	.11	.14	.12	.10	.13	.11
Other writers,artists,entertain	.08	.14	.17	.16	.18	.13	.24	.27	.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cycles, misc trans- portation			Professionl scientific instruments			Scientific instruments		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.14	1.27	.93	2.51	2.79	2.27	2.58	2.83	1.96
Accountants	.69	.77	.66	1.11	1.17	.89	1.26	1.28	.75
Lawyers	.04	.05	.01	.09	.11	.07	.06	.07	.00
Librarians	.00	.00	.00	.03	.03	.01	.04	.04	.03
Operations and systems research	.18	.22	.14	.52	.73	.74	.58	.81	.72
Personnel, labor relations wkrs	.22	.22	.11	.46	.47	.33	.47	.48	.34
Other research workers	.02	.01	.01	.32	.28	.23	.17	.15	.13
Managers, officials, proprietors	7.00	7.20	6.07	7.78	8.52	8.06	8.24	8.63	7.11
Buyers, sales, loan managers	1.90	1.90	2.43	1.78	1.82	2.41	2.11	2.17	3.07
Bank, financial managers	.14	.17	.24	.16	.16	.15	.14	.13	.11
Credit managers	.14	.09	.11	.07	.04	.04	.07	.03	.02
Purchasing agents, buyers, other	.87	.87	1.20	.83	.76	.95	1.10	1.06	1.49
Sales manager, exc retail trade	.74	.77	.89	.72	.86	1.28	.81	.95	1.46
Other managers, officials, proprts	5.10	5.29	3.64	6.00	6.70	5.65	6.14	6.46	4.04
Mgrs, superintendents, building	.02	.02	.01	.00	.00	.00	.00	.00	.00
Office managers, other	.29	.30	.40	.25	.28	.36	.24	.27	.36
Restaurant, cafe, bar, managers	.00	.00	.00	.01	.01	.01	.02	.02	.01
Other managers, administrators	4.80	4.97	3.23	5.74	6.41	5.29	5.88	6.17	3.66
Sales workers	1.88	1.59	.87	2.23	2.06	1.62	1.87	1.55	.81
Advertising agents, sales worker	.00	.00	.00	.03	.04	.05	.03	.05	.09
Other sales workers	1.88	1.59	.87	2.21	2.03	1.57	1.85	1.51	.72
Clerical workers	11.78	11.45	11.24	17.25	16.86	17.42	17.02	16.75	17.56
Stenographers, typists, secretaries	3.20	2.98	2.92	6.07	5.83	6.36	6.33	6.01	6.14
Legal secretaries	.00	.00	.00	.01	.01	.03	.00	.00	.00
Medical secretaries	.02	.01	.00	.01	.01	.02	.00	.00	.00
Other secretaries	2.14	2.16	2.31	4.62	4.66	5.37	4.78	4.77	5.16
Stenographers	.10	.04	.01	.11	.05	.01	.10	.04	.00
Typists	.93	.77	.60	1.32	1.09	.94	1.45	1.20	.98
Office machine operators	.62	.70	.56	1.29	1.43	1.09	1.20	1.34	1.04
Bookkeeping and billing	.00	.00	.00	.07	.04	.05	.06	.04	.05
Calculating	.00	.00	.00	.03	.02	.03	.03	.03	.03
Computer and peripheral equip	.13	.30	.29	.33	.70	.59	.30	.64	.52
Duplicating	.02	.01	.01	.05	.05	.05	.08	.07	.09
Keypunch	.36	.26	.12	.64	.49	.28	.57	.43	.25
Tabulating	.00	.00	.00	.03	.01	.01	.03	.01	.00
Other office machine operators	.12	.13	.14	.14	.12	.09	.13	.13	.10
Other clerical workers	7.96	7.77	7.76	9.89	9.61	9.97	9.49	9.40	10.39
Billing clerks	.19	.20	.22	.26	.29	.41	.22	.23	.27
Bookkeepers	1.30	1.30	1.19	1.39	1.36	1.34	1.26	1.19	1.04
Cashiers	.02	.03	.04	.05	.05	.05	.02	.02	.02
Clerical supervisors, other	.14	.17	.23	.22	.25	.27	.15	.18	.20
Counter clerks, exc food	.20	.20	.17	.34	.38	.51	.30	.33	.47
Dispatchers, starters, vehicle	.00	.00	.00	.03	.03	.04	.02	.03	.04
Estimators, investigators, other	.10	.14	.20	.26	.30	.24	.25	.31	.29
Expeditors, production controls	.55	.64	.94	1.14	1.21	1.52	1.33	1.51	2.19
File clerks	.14	.13	.19	.38	.32	.32	.38	.32	.33
Library attendants, assistants	.00	.00	.00	.02	.03	.02	.00	.00	.00
Mail handlers, exc post office	.12	.13	.19	.25	.25	.28	.14	.14	.17
Messengers and office helpers	.00	.00	.00	.07	.06	.04	.01	.01	.01
Payroll, timekeeping clerks	.68	.72	.59	.51	.50	.38	.50	.49	.29
Receptionists	.10	.10	.09	.35	.34	.31	.28	.27	.27
Shipping and receiving clerks	1.67	1.40	.99	1.27	1.12	.98	1.14	1.07	1.27
Statistical clerks	.21	.23	.24	.41	.46	.49	.36	.42	.49
Stock clerks and store keepers	1.44	1.31	1.34	1.37	1.15	1.04	1.47	1.28	1.20
Telephone operators	.15	.07	.01	.17	.10	.06	.17	.10	.04
Weighers	.06	.07	.07	.06	.05	.06	.05	.06	.09
Misc clerical workers	.90	.93	1.08	1.34	1.35	1.60	1.42	1.45	1.70
Crafts and kindred workers	19.40	18.39	15.96	16.90	16.63	16.32	15.24	14.99	14.30

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cycles, misc trans- portation			Professional scientific instruments			Scientific instruments		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	4.25	3.64	2.38	1.33	1.19	1.11	1.29	1.16	.93
Carpenters and apprentices	2.11	1.68	.58	.24	.19	.10	.21	.16	.05
* Electricians and apprentices	.75	.65	.33	.54	.52	.51	.49	.48	.44
Excavating,grading mach operatr	.00	.00	.00	.00	.00	.00	.01	.01	.01
Floor layers, exc tile setters	.09	.08	.12	.00	.00	.00	.00	.00	.00
Painters and apprentices	.82	.88	1.16	.20	.19	.20	.23	.22	.24
Plumbers,pipefitters,aprentices	.44	.33	.15	.35	.29	.31	.35	.28	.19
Structural metal craft workers	.04	.03	.03	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	5.00	5.06	3.91	4.17	4.10	3.33	4.15	3.94	2.49
Metalworkg craft wrkrs,exc mech	4.61	3.88	2.91	4.18	3.58	2.86	4.97	4.48	3.99
Blacksmiths	.05	.03	.00	.00	.00	.00	.00	.00	.00
Heat treaters, annealers	.12	.06	.01	.04	.03	.02	.06	.06	.03
Forge and hammer operators	.06	.04	.01	.01	.01	.00	.00	.00	.00
Job and die setters, metal	.91	.82	.93	.09	.07	.08	.09	.08	.11
Machinists and apprentices	1.55	1.39	.76	2.13	1.94	1.31	2.68	2.69	2.62
Millwrights	.17	.15	.06	.11	.11	.07	.09	.08	.04
Holders, metal and apprentices	.21	.20	.25	.03	.03	.03	.03	.03	.03
Pattern and mcldmakers	.34	.24	.20	.23	.15	.11	.29	.18	.10
Rollers and finishers,metal	.00	.00	.00	.01	.01	.01	.01	.01	.01
Sheetmetal workers, apprentices	.40	.31	.19	.29	.22	.18	.31	.23	.13
Tool and diemakers, apprentices	.80	.64	.52	1.25	1.02	1.05	1.42	1.13	.93
Mechanics,repairers,installers	4.00	4.51	5.62	3.24	3.66	4.63	3.45	4.10	5.80
Air cond, heating, refrig mech	.04	.05	.05	.08	.10	.09	.11	.14	.13
Aircraft mechanics	.02	.01	.01	.01	.01	.00	.00	.00	.00
Auto accessories installers	.03	.03	.02	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.74	.70	.86	.04	.04	.04	.05	.04	.05
Data processing mach repairers	.00	.00	.00	.06	.07	.09	.11	.14	.18
Farm implement mechanics	.00	.00	.00	.01	.02	.02	.00	.00	.00
Heavy equip mech, incl diesel	1.77	2.21	3.12	1.91	2.35	3.38	1.77	2.29	3.80
Household appliance mechanics	.07	.08	.10	.06	.06	.07	.15	.17	.24
Office machine repairers	.00	.00	.00	.05	.03	.07	.00	.00	.00
Radio, television repairers	.02	.02	.02	.09	.06	.04	.14	.08	.02
Other mechanics and apprentices	1.31	1.40	1.45	.93	.92	.82	1.12	1.23	1.37
Printing trade crafts workers	.11	.09	.00	.38	.34	.25	.44	.39	.20
Bookbinders	.00	.00	.00	.01	.01	.01	.01	.01	.00
Compositors and typesetters	.06	.05	.00	.15	.13	.06	.13	.10	.03
Engravers exc photoengravers	.00	.00	.00	.10	.08	.05	.18	.15	.09
Photoengravers, lithographers	.02	.01	.00	.02	.02	.02	.02	.02	.00
Press,plate printers,aprentices	.03	.03	.00	.09	.10	.10	.11	.12	.09
Transport,public util craft wkrs	.03	.02	.01	.03	.03	.03	.02	.01	.01
Power station operators	.03	.02	.01	.01	.01	.02	.00	.00	.00
Telephone installers,repairers	.00	.00	.00	.02	.02	.02	.01	.01	.01
Other crafts, kindred workers	1.41	1.20	1.13	3.58	3.74	4.12	.93	.90	.89
Cabinetmakers	.58	.47	.15	.08	.06	.01	.09	.08	.03
Crane,derrick,hoist operator	.18	.16	.25	.03	.02	.03	.04	.03	.05
Dental laboratory technicians	.00	.00	.00	.40	.33	.70	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.02	.01	.01	.03	.03	.04
Glaziers	.02	.03	.03	.00	.00	.00	.00	.00	.00
Inspectors, other	.02	.02	.01	.03	.02	.00	.05	.04	.01
Jewelers and watchmakers	.00	.00	.00	.60	.52	.86	.02	.02	.01
Opticians,lens grinder,polisher	.00	.00	.00	2.00	2.43	2.18	.31	.35	.37
Shipfitters	.02	.02	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.17	.08	.01	.21	.12	.04	.16	.10	.02
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Tailors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Upholsterers	.12	.10	.20	.02	.01	.02	.00	.00	.00
Other crafts workers	.30	.33	.48	.18	.19	.24	.22	.25	.35
Operatives	48.63	50.16	55.34	35.64	35.56	37.93	35.63	36.01	39.91
Operatives,except transport	45.41	46.92	52.36	34.85	34.77	37.07	35.06	35.47	39.38
Semiskilled metalworking	14.40	13.96	14.65	4.47	3.64	3.20	6.17	5.32	5.16
Drill press operatives	.94	.75	.72	.63	.46	.36	1.01	.80	.76
Furnace tendrs,smelters,pourers	.26	.25	.21	.03	.03	.06	.02	.02	.05
Grinding machine operatives	.72	.60	.54	.20	.16	.15	.23	.19	.18
Heaters, metal	.02	.02	.01	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.59	.45	.47	.88	.63	.64	1.27	.97	1.12
Metal platers	.48	.52	.51	.20	.19	.16	.20	.21	.24
Other precision mach operators	.28	.25	.35	.37	.26	.24	.48	.40	.51
Punch,stamping press operatives	2.78	2.61	3.11	.64	.53	.53	.61	.57	.73
Solderers	.18	.13	.03	.67	.53	.22	1.04	.88	.41
Welders and flamecutters	8.16	8.38	8.71	.86	.84	.84	1.31	1.28	1.16

*Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Cycles, misc trans- portation			Professionl scientific instruments			Scientific instruments		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled packing, inspecting	4.01	3.62	2.94	7.66	7.03	6.27	6.65	6.16	5.74
Checkers, examiners, mfg	2.60	2.51	2.42	5.47	5.11	4.83	5.46	5.25	5.33
Graders and scrtrs, mfg	.02	.01	.00	.10	.09	.07	.09	.08	.03
Packer, wrapper, exc meat, prodce	1.39	1.10	.52	2.10	1.84	1.36	1.10	.84	.38
Other operatives, exc transport	27.00	29.35	34.77	22.73	24.10	27.61	22.25	24.00	28.49
Assemblers	13.34	15.09	18.88	10.29	10.91	13.16	13.21	14.45	17.90
Cutting operatives, other	1.30	1.35	1.41	.73	.80	1.00	.36	.40	.54
Dyers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Filer, polisher, sander, buffer	.69	.72	.97	.79	.83	1.03	.40	.41	.53
Mixing operatives	.02	.01	.01	.22	.24	.31	.05	.06	.09
Oilers, greasers, exc automobiles	.02	.02	.01	.06	.05	.05	.07	.06	.02
Painters, mfg articles	2.82	2.63	3.37	.70	.62	.76	.85	.79	1.13
Photographic process workers	.05	.04	.02	.68	.65	.77	.11	.10	.06
Riveters and fasteners	.23	.23	.22	.10	.10	.13	.15	.16	.23
Sawyers	.41	.35	.18	.08	.06	.02	.14	.10	.03
Sewers and stitchers	.84	.76	.97	.54	.61	1.03	.05	.05	.10
Fdrnace tendr, stokr, exc metal	.12	.05	.01	.07	.04	.04	.06	.03	.01
Winding operatives, other	.06	.04	.01	.38	.38	.42	.27	.30	.41
Miscellaneous machine operatives	2.54	2.79	3.01	5.15	5.49	5.56	4.22	4.46	4.61
Other operatives, exc transport	4.56	5.27	5.71	2.92	3.31	3.34	2.31	2.64	2.85
Transport equipment operatives	3.22	3.24	2.99	.79	.78	.86	.56	.53	.53
Bus drivers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.26	.20	.10	.15	.14	.15	.06	.05	.05
Fork lift, tow motor operatives	1.51	1.81	1.99	.33	.40	.51	.24	.31	.44
Taxicab drivers, chauffeurs	.00	.00	.00	.04	.04	.04	.02	.02	.01
Truck drivers	1.43	1.21	.89	.26	.20	.17	.24	.16	.04
Service workers	1.68	1.60	1.41	1.93	1.69	1.31	1.45	1.32	1.15
Cleaning service workers	1.23	1.20	1.15	1.26	1.14	.91	.95	.91	.91
Bldg interior cleaners, other	.25	.27	.27	.18	.19	.18	.10	.10	.10
Janitors and sextons	.98	.93	.88	1.08	.95	.73	.86	.81	.80
Food service workers	.03	.02	.02	.16	.13	.13	.08	.07	.08
Waiters' assistants	.00	.00	.00	.01	.01	.02	.00	.00	.00
Cooks, exc private households	.02	.01	.01	.04	.03	.03	.01	.01	.01
Dishwashers	.01	.01	.01	.03	.02	.01	.02	.02	.02
Food counter, fountain workers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Waiters	.00	.00	.00	.02	.02	.01	.01	.01	.01
Other food serv wkrs, exc privt	.00	.00	.00	.05	.04	.05	.03	.03	.05
Health service workers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.01	.02	.02	.00	.00	.00
Personal service workers	.08	.06	.01	.03	.03	.01	.02	.02	.01
Attendants, personal serv, other	.00	.00	.00	.01	.01	.00	.00	.00	.00
Elevator operators	.08	.06	.01	.01	.01	.01	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.00	.02	.02	.01
Protective service workers	.34	.32	.23	.46	.38	.24	.40	.33	.16
Firefighters	.03	.03	.02	.02	.02	.03	.02	.01	.01
Guards	.31	.29	.21	.43	.36	.21	.38	.32	.15
Laborers, except farm	3.38	3.34	3.44	1.72	1.69	1.77	1.34	1.38	1.64
Carpenter helpers	.17	.16	.26	.00	.00	.01	.00	.00	.00
Constr labr, exc carpenter helpr	.13	.14	.21	.05	.04	.03	.07	.06	.07
Freight and material handlers	1.45	1.46	1.62	.66	.67	.85	.47	.50	.68
Gardens, groundkeepers, exc farm	.00	.00	.00	.06	.06	.05	.04	.04	.04
Stock handlers	.76	.84	.80	.44	.47	.42	.37	.41	.44
Vehicle washers, equip cleaners	.10	.11	.09	.15	.16	.15	.09	.10	.13
Warehouse labcrs, other	.25	.18	.06	.10	.08	.04	.09	.07	.03
Other laborers	.52	.46	.40	.25	.22	.23	.21	.20	.25

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Optical, health serv supplies			Photo equip and supplies			Watches and clock devices		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	12.65	13.87	12.87	20.27	20.93	19.59	5.58	5.63	4.29
Engineers, technical	3.37	3.08	2.73	6.27	5.76	5.35	1.90	1.71	1.32
Aeronautical	.02	.02	.02	.01	.01	.00	.00	.00	.00
Chemical	.11	.11	.11	.48	.46	.44	.02	.02	.02
Civil	.03	.02	.02	.12	.09	.11	.00	.00	.00
Electrical	.68	.63	.56	1.13	1.06	1.05	.38	.37	.37
Industrial	.81	.82	.70	1.52	1.48	1.13	.58	.55	.33
Mechanical	.72	.65	.58	1.36	1.26	1.36	.29	.25	.19
Metallurgical	.02	.03	.05	.02	.02	.02	.04	.04	.03
Mining	.01	.01	.00	.00	.00	.00	.00	.00	.00
Sales	.09	.04	.01	.03	.02	.02	.07	.06	.09
Other engineers	.89	.76	.67	1.60	1.35	1.22	.53	.43	.30
Life and physical scientists	.63	.66	.58	1.58	1.55	1.35	.16	.14	.05
Atmospheric and space	.00	.00	.00	.01	.01	.00	.03	.04	.00
Biological	.09	.14	.12	.03	.04	.04	.00	.00	.00
Chemists	.36	.35	.32	1.30	1.26	1.11	.13	.10	.05
Geologists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.17	.17	.13	.25	.24	.20	.00	.00	.00
Mathematical specialists	.02	.02	.04	.12	.12	.11	.04	.02	.00
Mathematicians	.00	.00	.00	.02	.03	.04	.00	.00	.00
Statisticians	.02	.02	.04	.10	.09	.07	.04	.02	.00
Engineering, science technicians	3.41	3.50	3.83	5.62	5.51	5.21	1.35	1.21	.87
Agricultural, biolgcl, exc health	.02	.03	.06	.00	.00	.00	.00	.00	.00
Chemical technicians	.16	.18	.26	.52	.52	.45	.08	.08	.07
Drafters	.77	.63	.59	1.20	1.10	1.59	.52	.40	.28
Electrical and electronic	.44	.57	.87	.73	.81	.86	.24	.20	.07
Industrial engineering	.13	.20	.29	.36	.38	.18	.06	.07	.04
Mechanical engineering	.08	.10	.16	.08	.09	.08	.00	.00	.00
Other engineering, science tech	1.83	1.80	1.59	2.74	2.62	2.05	.46	.47	.42
Medical workers, exc technicians	.21	.22	.33	.11	.10	.17	.03	.02	.01
Dentists	.04	.04	.06	.00	.00	.00	.00	.00	.00
Dietitians	.00	.00	.00	.01	.01	.02	.00	.00	.00
Optometrists	.02	.02	.04	.00	.00	.00	.00	.00	.00
Pharmacists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.03	.04	.11	.03	.05	.15	.00	.00	.00
Registered nurses	.10	.09	.10	.07	.04	.01	.03	.02	.01
Therapists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Health technolcists, technicians	1.27	2.02	1.55	.00	.00	.00	.00	.00	.00
Clinical lab technologists, tech	.03	.04	.06	.00	.00	.00	.00	.00	.00
Dental hygienists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other health technicians	1.24	1.97	1.48	.00	.00	.00	.00	.00	.00
Technicians, except health	.07	.08	.09	.07	.09	.11	.02	.02	.01
Airplane pilots	.01	.01	.01	.01	.01	.01	.00	.00	.00
Tool programmers, numerical	.00	.00	.00	.01	.00	.00	.02	.02	.01
Other technicians except health	.05	.07	.08	.06	.07	.10	.00	.00	.00
Computer specialists	.49	.61	.56	1.20	1.53	1.39	.29	.34	.27
Computer programmers	.33	.38	.38	.69	.79	.76	.22	.24	.20
Computer systems analysts	.13	.19	.17	.45	.65	.58	.07	.09	.07
Other computer specialists	.03	.04	.02	.05	.09	.05	.00	.00	.00
Social scientists	.30	.51	.63	.58	.87	.74	.07	.06	.01
Economists	.30	.51	.63	.56	.83	.73	.07	.06	.01
Psychologists	.00	.00	.00	.02	.04	.01	.00	.00	.00
Teachers	.02	.03	.05	.10	.10	.03	.04	.04	.01
Adult education	.02	.03	.05	.10	.10	.03	.04	.04	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Optical, health serv supplies			Photo equip and supplies			Watches and clock devices		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers,artists,entertainers	.73	.80	.58	1.43	1.67	1.89	.24	.26	.09
Designers	.40	.43	.29	.59	.72	.80	.14	.11	.01
Editors and reporters	.08	.08	.04	.33	.37	.43	.03	.03	.04
Photographers	.03	.02	.01	.26	.27	.37	.00	.00	.00
Public relations specialists	.13	.16	.14	.08	.11	.12	.07	.13	.04
Other writers,artists,entertain	.08	.11	.11	.17	.21	.16	.00	.00	.00
Other professional and technical	2.14	2.35	1.91	3.18	3.65	3.23	1.45	1.81	1.66
Accountants	1.05	1.10	.75	1.01	1.17	1.22	.79	.93	.96
Lawyers	.09	.10	.11	.12	.17	.05	.11	.24	.26
Librarians	.02	.02	.01	.04	.03	.00	.00	.00	.00
Operations and systems research	.28	.46	.55	.78	1.12	1.11	.26	.37	.32
Personnel,labcr relations wkrs	.37	.38	.24	.60	.63	.47	.26	.24	.12
Other research workers	.32	.29	.25	.63	.53	.37	.04	.03	.00
Managers,officials,proprietors	8.91	9.36	8.08	6.43	7.74	9.79	4.96	5.45	4.31
Buyers,sales,loan managers	1.81	1.93	2.85	1.34	1.26	1.37	1.34	1.22	.85
Bank,financial managers	.17	.18	.20	.14	.14	.10	.28	.28	.20
Credit managers	.08	.04	.02	.08	.06	.10	.09	.05	.02
Purchasing agents,buyers,other	.71	.70	1.03	.65	.53	.41	.43	.31	.14
Sales manager, exc retail trade	.85	1.01	1.60	.48	.54	.76	.54	.58	.49
Other managers,officials,properts	7.09	7.43	5.23	5.09	6.48	8.42	3.62	4.23	3.47
Mgrs, superintendents, building	.00	.00	.00	.00	.00	.00	.02	.02	.02
Office managers, other	.33	.35	.46	.24	.24	.26	.03	.03	.03
Restaurant,cafe,bar,managers	.00	.00	.00	.02	.01	.01	.00	.00	.00
Other managers, administrators	6.77	7.08	4.77	4.83	6.23	8.15	3.58	4.19	3.42
Sales workers	3.22	2.76	1.70	1.76	1.84	2.39	1.58	1.58	1.60
Advertising agents,sales worker	.03	.03	.01	.03	.04	.08	.04	.04	.01
Other sales workers	3.20	2.73	1.69	1.74	1.79	2.30	1.54	1.54	1.59
Clerical workers	16.90	16.42	17.41	19.11	18.69	18.59	13.66	12.72	10.81
Stenogaphrs,typists,secretaries	5.97	5.66	6.10	6.45	6.34	7.62	3.73	3.53	3.13
Legal secretaries	.02	.02	.05	.03	.02	.03	.00	.00	.00
Medical secretaries	.02	.02	.05	.02	.01	.00	.00	.00	.00
Other secretaries	4.58	4.54	5.13	4.99	5.16	6.50	2.63	2.65	2.49
Stenographers	.07	.03	.01	.18	.10	.03	.06	.03	.01
Typists	1.28	1.05	.87	1.23	1.06	1.06	1.04	.85	.63
Office machine operators	1.12	1.20	.99	1.78	2.07	1.43	.85	.75	.47
Bookkeeping and billing	.11	.07	.09	.06	.03	.02	.04	.01	.01
Calculating	.02	.02	.04	.02	.01	.01	.02	.01	.01
Computer and peripheral equip	.25	.53	.44	.57	1.18	.93	.10	.25	.31
Duplicating	.03	.03	.04	.05	.04	.04	.01	.01	.01
Keypunch	.62	.49	.32	.80	.58	.29	.59	.40	.14
Tabulating	.02	.01	.00	.06	.02	.02	.00	.00	.00
Other office machine operators	.07	.07	.06	.23	.21	.13	.10	.06	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Optical, health serv supplies			Photo equip and supplies			Watches and clock devices		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	9.82	9.56	10.33	10.88	10.27	9.54	9.08	8.45	7.22
Billing clerks	.33	.38	.58	.28	.29	.36	.16	.17	.17
Bookkeepers	1.76	1.64	1.46	1.14	1.19	1.51	1.41	1.35	1.20
Cashiers	.06	.06	.06	.08	.09	.07	.04	.04	.01
Clerical supervisors, other	.18	.21	.25	.38	.41	.39	.23	.24	.20
Collectors, bill and account	.02	.02	.02	.00	.00	.00	.02	.02	.02
Counter clerks, exc food	.46	.51	.73	.32	.31	.32	.14	.14	.12
Dispatchers, starters, vehicle	.03	.04	.05	.03	.03	.03	.02	.02	.02
Estimators, investigators, other	.20	.25	.25	.34	.36	.20	.27	.28	.15
Expeditors, production controls	.80	.91	1.37	1.37	1.35	1.25	.81	.70	.34
File clerks	.38	.32	.31	.32	.28	.34	.54	.43	.32
Library attendants, assistants	.03	.04	.04	.05	.04	.02	.00	.00	.00
Mail handlers, exc post office	.32	.32	.38	.33	.31	.28	.26	.22	.16
Messengers and office helpers	.12	.09	.03	.09	.08	.04	.10	.11	.16
Payroll, timekeeping clerks	.34	.33	.20	.66	.71	.67	.78	.87	.83
Receptionists	.48	.46	.46	.31	.27	.18	.26	.23	.17
Shipping and receiving clerks	1.61	1.29	.83	1.05	.89	.72	1.36	1.35	1.71
Statistical clerks	.35	.41	.50	.59	.62	.53	.32	.32	.20
Stock clerks and store keepers	1.17	1.11	1.37	1.49	1.10	.52	1.16	.87	.39
Telephone operators	.18	.11	.05	.17	.12	.12	.10	.04	.01
Weighers	.02	.03	.06	.11	.09	.05	.02	.02	.01
Misc clerical workers	.97	1.04	1.35	1.76	1.75	1.96	1.07	1.05	1.06
Crafts and kindred workers	18.54	17.69	16.22	16.69	16.51	16.75	19.92	20.59	25.70
Construction crafts workers	.75	.66	.50	2.25	2.15	2.24	.90	.88	.79
Carpenters and apprentices	.18	.13	.03	.36	.32	.20	.27	.30	.35
Electricians and apprentices	.31	.28	.17	.99	1.01	1.12	.24	.23	.21
Painters and apprentices	.18	.19	.27	.14	.11	.05	.33	.29	.19
Plumbers, pipefitters, apprentices	.09	.07	.04	.76	.72	.88	.07	.06	.04
Blue collar worker supervisors	3.84	3.66	2.36	4.66	5.00	5.44	4.01	4.28	4.30
Metalwork craft wrkrs, exc meca	3.47	2.88	1.84	3.90	3.40	3.12	3.75	3.23	2.95
Heat treaters, annealers	.02	.02	.01	.01	.01	.02	.09	.08	.07
Forge and hammer operators	.01	.01	.01	.00	.00	.00	.02	.02	.01
Job and die setters, metal	.09	.08	.08	.06	.05	.05	.16	.10	.03
Machinists and apprentices	1.83	1.58	.82	1.92	1.60	.75	.96	.88	.54
Millwrights	.09	.09	.05	.20	.19	.12	.05	.06	.09
Molders, metal and apprentices	.05	.05	.06	.00	.00	.00	.05	.05	.08
Pattern and mldmakers	.14	.08	.04	.24	.18	.22	.28	.21	.22
Rollers and finishers, metal	.01	.01	.01	.00	.00	.00	.06	.04	.01
Sheetmetal workers, apprentices	.17	.13	.08	.47	.40	.40	.04	.03	.01
Tool and diemakers, apprentices	1.05	.83	.68	1.00	.96	1.55	2.04	1.76	1.91
Mechanics, repairers, installers	2.48	3.01	4.26	4.01	4.19	4.26	2.66	2.94	2.82
Air cond, heating, refrig mech	.03	.04	.04	.11	.14	.14	.02	.02	.01
Aircraft mechanics	.03	.02	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.01	.01	.01	.09	.08	.07	.00	.00	.00
Data processing mach repairers	.03	.04	.06	.04	.05	.07	.00	.00	.00
Farm implement mechanics	.03	.04	.06	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	1.73	2.18	3.29	2.32	2.69	3.20	2.14	2.48	2.60
Office machine repairers	.00	.00	.00	.19	.15	.27	.00	.00	.00
Radio, television repairers	.02	.01	.01	.11	.09	.11	.06	.06	.06
Other mechanics and apprentices	.60	.67	.79	1.16	.99	.41	.44	.38	.15
Printing trade crafts workers	.21	.18	.10	.48	.49	.48	.36	.37	.41
Bookbinders	.00	.00	.00	.02	.02	.05	.00	.00	.00
Compositors and typesetters	.12	.09	.03	.25	.22	.12	.13	.15	.22
Electrotypers and stereotypers	.00	.00	.00	.01	.00	.00	.00	.00	.00
Engravers exc photoengravers	.05	.05	.04	.00	.00	.00	.21	.20	.18
Photoengravers, lithographers	.00	.00	.00	.06	.06	.08	.00	.00	.00
Press, plate printers, apprentices	.04	.04	.03	.15	.18	.23	.03	.02	.01
Transport, public util craft wrks	.01	.01	.01	.08	.08	.10	.00	.00	.00
Power station operators	.00	.00	.00	.03	.04	.06	.00	.00	.00
Telephone installers, repairers	.01	.01	.01	.05	.05	.04	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Optical, health serv supplies			Photo equip and supplies			Watches and clock devices		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	7.78	7.29	7.16	1.30	1.21	1.12	8.24	8.90	14.42
Cabinetmakers	.08	.06	.00	.05	.04	.00	.10	.08	.04
Crane,derrick,hoist operator	.00	.00	.00	.06	.05	.06	.02	.01	.02
Dental laboratory technicians	1.32	.89	1.80	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.05	.04	.00
Glaziers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Inspectors, other	.01	.01	.00	.03	.02	.00	.04	.03	.00
Jewelers and watchmakers	.01	.01	.02	.20	.20	.32	7.81	8.61	14.35
Opticians,lens grinder,polisher	5.90	5.96	4.91	.46	.53	.58	.00	.00	.00
Shoe repairers	.01	.00	.02	.00	.00	.00	.00	.00	.00
Stationary engineers	.14	.06	.00	.39	.28	.11	.12	.06	.00
Tailors	.03	.03	.05	.00	.00	.00	.00	.00	.00
Upholsterers	.06	.04	.04	.00	.00	.00	.00	.00	.00
Other crafts workers	.21	.21	.32	.10	.09	.04	.10	.06	.01
Operatives	36.23	36.40	40.09	30.82	30.16	30.16	49.89	50.21	50.92
Operatives,except transport	35.43	35.66	39.40	29.60	28.87	28.64	49.42	49.74	50.32
Semiskilled metalworking	3.53	3.10	3.17	2.59	1.94	1.49	5.47	3.83	1.53
Drill press operatives	.41	.33	.33	.29	.18	.05	.58	.35	.10
Furnace tendrs,smeltrs,pourers	.03	.04	.06	.04	.05	.07	.02	.02	.04
Grinding machine operatives	.23	.19	.20	.15	.11	.06	.10	.06	.02
Lathe,milling mach operatives	.76	.59	.70	.47	.28	.13	.59	.33	.11
Metal platers	.16	.17	.20	.15	.11	.03	.56	.42	.10
Other precision mach operators	.16	.13	.15	.18	.12	.07	1.36	.87	.37
Punch,stamping press operatives	.55	.51	.67	.58	.40	.15	1.35	1.01	.45
Soldersers	.56	.48	.24	.21	.11	.01	.59	.47	.15
Welders and flamecutters	.67	.66	.62	.50	.58	.93	.33	.30	.20
Semiskilled packing, inspecting	8.73	7.58	5.76	7.30	6.75	6.43	10.00	10.19	11.99
Checkers, examiners, mfy	4.95	4.66	4.36	5.42	4.91	4.09	7.91	8.08	9.31
Graders and scrters, mfy	.12	.10	.04	.07	.09	.14	.13	.16	.25
Packer,wrapper,exc meat,prodc	3.66	2.83	1.36	1.81	1.75	2.20	1.96	1.95	2.43
Other operatives, exc transport	23.17	24.98	30.48	19.72	20.18	20.72	33.96	35.73	36.80
Assemblers	7.72	8.39	10.14	6.76	7.48	9.77	17.31	20.11	27.03
Cutting operatives, other	.98	1.08	1.50	1.11	1.07	.92	.44	.38	.17
Dyers	.02	.02	.01	.02	.02	.01	.00	.00	.00
Filer,polisher,sander,buffer	1.50	1.56	2.12	.20	.14	.04	2.04	1.60	.68
Mixing operatives	.23	.26	.40	.55	.53	.46	.00	.00	.00
Oilers,greasers,exc automobiles	.02	.02	.02	.06	.06	.06	.13	.16	.26
Painters, mfg articles	.64	.61	.89	.47	.36	.24	.87	.67	.46
Photographic process workers	.08	.07	.04	2.54	2.56	2.72	.02	.03	.03
Riveters and fasteners	.07	.08	.11	.05	.05	.07	.17	.11	.02
Sawyers	.08	.07	.03	.00	.00	.00	.00	.00	.00
Sewers and stitchers	1.65	1.56	2.53	.07	.06	.06	.09	.07	.07
Furnace tendr,stokr,exc metal	.07	.03	.01	.10	.08	.12	.05	.02	.01
Winding operatives, other	.40	.44	.62	.45	.38	.19	.62	.49	.14
Miscellaneous machine operatves	5.92	6.38	6.92	5.31	5.37	4.76	6.58	6.54	4.82
Other operatives,exc transport	3.81	4.42	5.14	2.03	2.03	1.29	5.65	5.56	3.12
Transport equipment operatives	.80	.74	.68	1.22	1.29	1.52	.47	.47	.60
Bus drivers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Delivery and route workers	.26	.21	.16	.18	.17	.23	.09	.09	.14
Fork lift,tow motor operatives	.28	.35	.47	.61	.69	.75	.07	.07	.04
Taxicab drivers, chauffeurs	.04	.03	.01	.07	.08	.12	.11	.09	.01
Truck drivers	.23	.16	.05	.35	.33	.43	.20	.22	.40
Service workers	1.77	1.63	1.42	2.94	2.40	1.42	1.75	1.45	.79
Cleaning service workers	1.31	1.24	1.15	1.74	1.38	.66	1.18	.94	.43
Bldg interior cleaners, other	.24	.25	.27	.22	.20	.15	.28	.25	.17
Janitors and sextons	1.07	.99	.88	1.52	1.17	.51	.90	.69	.27
Food service wrkrs	.10	.09	.13	.38	.28	.19	.15	.12	.09
Waiters' assistants	.01	.01	.03	.01	.01	.03	.02	.02	.03
Cooks,exc private households	.02	.02	.01	.09	.07	.07	.04	.04	.03
Dishwashers	.01	.01	.01	.04	.02	.01	.04	.02	.01
Food counter,fountain workers	.01	.01	.02	.07	.06	.03	.00	.00	.00
Waiters	.02	.01	.01	.05	.03	.01	.03	.03	.03
Other food serv wrks,exc privt	.03	.03	.06	.12	.08	.05	.03	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Optical, health serv supplies			Photo equip and supplies			Watches and clock devices		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Health service workers	.04	.05	.05	.00	.00	.00	.00	.00	.00
Health aides, except nursing	.04	.05	.05	.00	.00	.00	.00	.00	.00
Personal service workers	.03	.02	.01	.06	.04	.02	.02	.02	.03
Attendants, personal serv, other	.00	.00	.00	.04	.03	.01	.00	.00	.00
Child care workers, exc private	.00	.00	.00	.01	.01	.01	.00	.00	.00
Elevator operators	.03	.02	.01	.01	.01	.01	.02	.02	.03
Protective service workers	.29	.23	.10	.77	.70	.55	.40	.37	.24
Firefighters	.01	.01	.01	.07	.07	.10	.00	.00	.00
Guards	.28	.23	.09	.70	.63	.45	.40	.37	.24
Laborers, except farm	1.77	1.85	2.22	1.99	1.74	1.32	2.66	2.37	1.57
Carpenter helpers	.00	.00	.00	.02	.01	.03	.00	.00	.00
Constr labr, exc carpenter helpr	.00	.00	.00	.09	.07	.04	.03	.02	.01
Freight and material handlers	.69	.73	1.01	.80	.77	.80	1.14	1.05	.85
Gardenrs, groundkeepers, exc farm	.03	.03	.05	.10	.08	.04	.21	.22	.15
Stock handlers	.54	.60	.66	.38	.32	.11	.62	.51	.13
Vehicle washers, equip cleaners	.22	.23	.26	.17	.13	.04	.13	.11	.03
Warehouse labcrers, other	.10	.08	.04	.13	.10	.05	.00	.00	.00
Other laborers	.20	.18	.20	.31	.25	.21	.54	.47	.41

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc manufactur- ing			Nondurable goods			Food and kindred products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	5.34	5.85	5.64	7.22	8.18	8.29	3.66	4.18	4.26
Engineers, technical	1.21	1.16	1.18	1.13	1.11	1.16	.56	.54	.49
Aeronautical	.04	.06	.09	.00	.00	.00	.00	.00	.00
Chemical	.03	.04	.04	.39	.40	.46	.04	.04	.05
Civil	.02	.02	.04	.04	.03	.03	.03	.02	.03
Electrical	.19	.17	.14	.08	.07	.08	.04	.05	.06
Industrial	.33	.33	.25	.27	.28	.25	.24	.24	.16
Mechanical	.25	.25	.34	.19	.18	.20	.12	.11	.12
Metallurgical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Petroleum	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sales	.05	.04	.04	.03	.02	.02	.00	.00	.00
Other engineers	.28	.24	.23	.12	.11	.10	.09	.08	.07
Life and physical scientists	.17	.16	.09	.68	.73	.72	.36	.40	.38
Agricultural	.00	.00	.00	.01	.01	.01	.01	.02	.02
Biological	.01	.02	.03	.05	.09	.10	.04	.07	.07
Chemists	.15	.12	.05	.59	.60	.59	.30	.31	.29
Geologists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Physicists and astronomers	.01	.01	.01	.02	.02	.02	.00	.00	.00
Mathematical specialists	.01	.01	.01	.02	.02	.02	.01	.01	.01
Statisticians	.01	.01	.01	.02	.02	.02	.01	.01	.01
Engineering, science technicians	.96	.98	1.16	1.58	1.69	1.92	.98	1.13	1.35
Agricultural, biol, exc health	.02	.02	.02	.24	.27	.30	.75	.87	1.05
Chemical technicians	.03	.03	.02	.63	.67	.76	.04	.04	.03
Drafters	.40	.39	.60	.16	.15	.18	.06	.06	.09
Electrical and electronic	.10	.10	.06	.03	.03	.03	.01	.01	.01
Industrial engineering	.05	.06	.05	.06	.08	.09	.06	.08	.08
Mechanical engineering	.01	.02	.04	.01	.01	.01	.00	.00	.01
Other engineering, science teca	.36	.37	.38	.46	.48	.54	.06	.06	.07
Medical workers, exc technicians	.05	.05	.06	.07	.08	.10	.06	.08	.11
Dietitians	.00	.00	.00	.00	.00	.00	.01	.01	.02
Pharmacists	.00	.00	.00	.01	.02	.02	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.01	.01	.02	.00	.00	.00
Registered nurses	.04	.05	.06	.05	.04	.05	.05	.05	.06
Veterinarians	.00	.00	.00	.00	.01	.01	.01	.01	.02
Health technologists, technicians	.00	.00	.00	.02	.02	.02	.01	.01	.00
Other health technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Technicians, except health	.03	.04	.04	.03	.04	.05	.02	.02	.02
Airplane pilots	.02	.02	.03	.01	.01	.02	.01	.01	.01
Other technicians except health	.01	.02	.02	.02	.02	.03	.00	.01	.01
Computer specialists	.20	.25	.21	.24	.32	.32	.16	.20	.19
Computer programers	.13	.15	.13	.16	.19	.19	.11	.13	.12
Computer systems analysts	.06	.09	.08	.07	.11	.11	.04	.06	.06
Other computer specialists	.00	.00	.00	.01	.02	.02	.01	.01	.01
Social scientists	.06	.10	.09	.10	.15	.13	.07	.11	.09
Economists	.06	.10	.09	.10	.15	.12	.07	.11	.09
Teachers	.02	.02	.01	.04	.04	.02	.01	.01	.01
Adult education	.02	.02	.01	.03	.03	.01	.01	.01	.01
Other teachers	.00	.00	.00	.02	.01	.00	.00	.00	.00
Writers, artists, entertainers	1.36	1.65	1.56	1.91	2.36	2.51	.18	.23	.23
Authors	.00	.00	.00	.03	.04	.04	.00	.00	.00
Designers	.77	.94	1.01	.28	.34	.30	.02	.02	.03
Editors and reporters	.05	.07	.09	1.07	1.33	1.55	.01	.01	.02
Painters and sculptors	.36	.43	.24	.23	.31	.22	.02	.03	.01
Photographers	.05	.05	.07	.17	.18	.24	.00	.00	.00
Public relations specialists	.10	.13	.12	.10	.13	.12	.12	.16	.16
Other writers, artists, entertain	.02	.03	.03	.04	.04	.03	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc manufactur- ing			Nondurable goods			Food and kindred products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.26	1.45	1.23	1.40	1.61	1.36	1.25	1.46	1.38
Accountants	.74	.84	.80	.73	.86	.81	.77	.91	.95
Foresters and conservationists	.00	.00	.00	.02	.02	.01	.00	.00	.00
Home management advisors	.00	.00	.00	.01	.00	.00	.02	.01	.01
Lawyers	.05	.09	.08	.05	.09	.07	.04	.06	.04
Librarians	.01	.01	.01	.02	.01	.01	.00	.00	.00
Operations and systems research	.13	.18	.15	.13	.18	.15	.08	.11	.10
Personnel, labor relations wkrs	.26	.27	.18	.31	.33	.25	.27	.30	.27
Other research workers	.07	.05	.01	.13	.11	.06	.07	.05	.02
Managers, officials, proprietors	8.71	10.28	11.40	6.20	7.35	7.77	7.25	8.41	8.77
Buyers, sales, loan managers	1.41	1.31	1.32	1.30	1.25	1.22	1.68	1.55	1.52
Bank, financial managers	.13	.12	.07	.11	.11	.08	.11	.10	.06
Credit managers	.11	.07	.07	.07	.04	.04	.09	.05	.05
Buyers, shippers, farm products	.00	.00	.00	.05	.04	.05	.23	.19	.27
Purchasing agents, buyers, other	.48	.40	.32	.36	.31	.27	.41	.34	.25
Sales manager, exc retail trade	.69	.73	.86	.71	.75	.78	.84	.87	.90
Other managers, officials, proprts	7.31	8.96	10.08	4.90	6.10	6.55	5.57	6.86	7.24
Office managers, other	.41	.43	.50	.33	.34	.36	.43	.44	.47
Restaurant, cafe, bar, managers	.01	.00	.00	.01	.01	.01	.02	.02	.01
Other managers, administrators	6.89	8.53	9.57	4.56	5.75	6.18	5.11	6.39	6.75
Sales workers	3.64	3.65	3.97	3.69	3.82	4.38	3.60	3.43	3.13
Advertising agents, sales worker	.07	.10	.14	.23	.35	.44	.03	.04	.05
Newspaper carriers and vendors	.00	.00	.00	.69	.61	.73	.00	.00	.00
Other sales workers	3.57	3.55	3.83	2.77	2.86	3.22	3.57	3.39	3.09
Clerical workers	13.30	13.12	14.41	12.31	12.17	12.08	9.92	9.68	9.83
Stenographers, typists, secretaries	4.20	4.37	5.89	3.47	3.50	4.06	2.40	2.48	3.20
Legal secretaries	.00	.00	.00	.01	.01	.02	.01	.01	.01
Other secretaries	3.11	3.40	4.83	2.44	2.61	3.22	1.91	2.07	2.79
Stenographers	.06	.03	.00	.09	.05	.02	.06	.03	.01
Typists	1.03	.94	1.06	.93	.83	.81	.42	.37	.39
Office machine operators	.83	.85	.62	.86	.89	.54	.73	.74	.49
Bookkeeping and billing	.09	.04	.02	.07	.03	.01	.06	.02	.01
Calculating	.04	.02	.01	.07	.04	.02	.15	.08	.03
Computer and peripheral equip	.16	.38	.38	.19	.41	.32	.16	.36	.32
Duplicating	.02	.02	.01	.03	.02	.01	.01	.01	.01
Keypunch	.45	.33	.16	.40	.29	.12	.31	.23	.11
Tabulating	.01	.00	.00	.02	.01	.00	.01	.00	.00
Other office machine operators	.06	.06	.03	.10	.09	.05	.04	.03	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc manufactur- ing			Nondurable goods			Food and kindred products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	8.27	7.90	7.90	7.97	7.79	7.48	6.80	6.46	6.14
Billing clerks	.26	.28	.38	.21	.23	.27	.17	.18	.22
Bookkeepers	2.01	2.04	2.39	1.56	1.54	1.54	1.95	1.92	2.05
Cashiers	.04	.05	.09	.09	.09	.10	.19	.18	.17
Clerical supervisors, other	.12	.13	.12	.13	.15	.13	.11	.12	.11
Collectors, bill and account	.01	.01	.01	.02	.02	.01	.01	.01	.01
Counter clerks,exc food	.28	.29	.30	.32	.32	.33	.19	.18	.16
Dispatchers,starters,vehicle	.02	.02	.02	.03	.03	.03	.05	.05	.05
Enumerators and interviewers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Estimators,investigators,other	.18	.19	.10	.18	.19	.11	.08	.09	.05
Expeditors,prdction controls	.47	.48	.47	.40	.40	.37	.20	.18	.12
File clerks	.29	.26	.33	.24	.20	.20	.11	.09	.11
Library attendants, assistants	.01	.01	.01	.02	.02	.00	.00	.00	.00
Mail handlers,exc post office	.15	.14	.11	.29	.27	.20	.08	.07	.06
Messengers and office helpers	.07	.07	.07	.09	.09	.06	.03	.03	.03
Payroll,timekeeping clerks	.36	.37	.27	.38	.42	.41	.34	.39	.44
Proofreaders	.00	.00	.00	.33	.39	.49	.00	.00	.00
Receptionists	.23	.19	.10	.22	.19	.11	.18	.14	.07
Shipping and receiving clerks	1.73	1.57	1.65	1.37	1.29	1.47	1.19	1.12	1.29
Statistical clerks	.25	.28	.26	.26	.28	.24	.18	.19	.17
Stock clerks and store keepers	.80	.60	.28	.61	.48	.33	.56	.40	.16
Telephone operators	.14	.10	.08	.16	.11	.09	.13	.09	.08
Weighers	.09	.08	.05	.24	.22	.15	.66	.61	.34
Misc clerical workers	.77	.77	.82	.84	.86	.84	.42	.43	.46
Crafts and kindred workers	17.65	17.59	19.38	16.07	16.92	17.82	14.62	15.28	16.72
Construction crafts workers	1.66	1.65	1.73	1.31	1.29	1.45	1.13	1.15	1.29
Carpenters and apprentices	.57	.64	.81	.22	.23	.22	.22	.24	.26
Brick,stonemasons, apprentices	.02	.02	.03	.02	.02	.01	.02	.02	.01
Bulldozer operators	.02	.01	.01	.07	.06	.08	.13	.10	.07
Electricians and apprentices	.43	.45	.53	.49	.51	.61	.45	.51	.67
Excavating,grading mach operatr	.02	.01	.01	.03	.03	.04	.03	.02	.02
Floor layers, exc tile setters	.02	.01	.00	.01	.01	.00	.01	.01	.00
Painters and apprentices	.46	.37	.18	.12	.10	.08	.12	.09	.04
Plumbers,pipefitters,aprentices	.11	.11	.14	.33	.32	.40	.16	.17	.24
Structural metal craft workers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Blue collar worker supervisors	4.28	4.70	5.19	4.11	4.60	5.15	4.21	4.81	5.81
Metalworkg craft wrkrs,exc mech	3.89	3.50	4.10	1.17	1.30	1.78	.83	1.01	1.64
Blacksmiths	.01	.01	.03	.00	.00	.00	.00	.00	.00
Boilermakers	.01	.01	.03	.04	.04	.05	.03	.03	.05
Heat treaters, annealers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Forge and hammer operators	.05	.05	.04	.01	.01	.01	.00	.00	.00
Job and die setters, metal	.14	.11	.08	.02	.02	.02	.01	.01	.01
Machinists and apprentices	1.06	1.19	1.69	.70	.82	1.19	.56	.71	1.26
Millwrights	.08	.09	.11	.22	.23	.28	.15	.18	.22
Molders, metal and apprentices	.08	.07	.07	.00	.00	.00	.00	.00	.00
Pattern and mldmakers	1.35	.98	.87	.03	.03	.04	.00	.00	.00
Rollers and finishers,metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.24	.18	.10	.06	.05	.07	.07	.06	.09
Tool and diemakers, apprentices	.85	.79	1.07	.09	.10	.13	.01	.01	.02
Mechanics,repairers,installers	2.67	2.85	2.74	3.26	3.63	4.08	3.90	4.25	4.46
Air cond, heating, refrig mech	.01	.02	.04	.08	.10	.11	.18	.24	.25
Aircraft mechanics	.04	.05	.12	.00	.00	.01	.00	.00	.00
Auto body repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.13	.11	.06	.24	.19	.12	.79	.61	.35
Data processing mach repairers	.01	.01	.03	.01	.01	.01	.00	.01	.01
Farm implement mechanics	.00	.00	.00	.01	.01	.01	.02	.02	.02
Heavy equip mech, incl diesel	1.71	1.96	2.09	2.37	2.81	3.39	2.59	3.11	3.69
Household appliance mechanics	.38	.35	.23	.03	.03	.02	.01	.01	.01
Loom fixers	.00	.00	.00	.22	.18	.15	.00	.00	.00
Office machine repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Radio, television repairers	.04	.04	.06	.01	.01	.02	.02	.02	.02
Other mechanics and apprentices	.34	.29	.11	.29	.27	.22	.27	.23	.10
Printing trade crafts workers	.87	.93	1.01	3.95	4.21	3.82	.09	.10	.15
Bookbinders	.01	.01	.00	.36	.30	.33	.00	.00	.00
Compositors and typesetters	.34	.38	.43	1.74	1.80	1.32	.05	.06	.08
Electrotypers and stereotypers	.00	.00	.00	.08	.02	.01	.00	.00	.00
Engravers exc photoengravers	.36	.35	.33	.04	.04	.03	.00	.00	.00
Photoengravers, lithographers	.02	.02	.02	.34	.39	.54	.00	.00	.01
Press,plate printers,aprentices	.14	.17	.23	1.40	1.65	1.60	.03	.04	.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc manufactur- ing			Nondurable goods			Food and kindred products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport,public util craft wkrs	.03	.03	.03	.04	.04	.03	.01	.02	.02
Power station operators	.00	.00	.00	.02	.02	.02	.01	.01	.01
Telephone installers,repairers	.03	.03	.03	.01	.01	.01	.00	.00	.00
Other crafts, kindred workers	4.24	3.93	4.58	2.24	1.85	1.52	4.45	3.94	3.35
Bakers	.04	.04	.07	.64	.52	.38	2.93	2.49	1.96
Cabinetmakers	.21	.19	.10	.01	.01	.00	.00	.00	.00
Carpet installers	.01	.01	.02	.01	.01	.01	.00	.00	.00
Crane,derrick,hoist operator	.09	.08	.15	.11	.09	.10	.07	.06	.10
Decorators, window dressers	.16	.28	.41	.00	.01	.01	.01	.02	.02
Furniture and wood finishers	.07	.06	.03	.00	.00	.00	.00	.00	.00
Inspectors, lcg and lumber	.01	.01	.01	.01	.01	.00	.00	.00	.00
Inspectors, other	.03	.03	.04	.04	.05	.06	.04	.06	.08
Jewelers and watchmakers	2.02	2.06	3.01	.00	.00	.00	.00	.00	.00
Millers, grain, flour, feed	.00	.00	.00	.10	.12	.14	.47	.56	.73
Opticians,lens grinder,polisher	.01	.02	.03	.00	.00	.00	.00	.00	.00
Piano,organ tuners, repairers	.15	.13	.18	.00	.00	.00	.00	.00	.00
Shipfitters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Shoe repairers	.03	.01	.01	.10	.03	.03	.00	.00	.00
Sign painters and letterers	.37	.23	.02	.01	.01	.00	.02	.01	.00
Stationary engineers	.12	.08	.02	.35	.27	.17	.51	.41	.31
Stone cutters, stone carvers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Tailors	.03	.04	.06	.44	.40	.41	.00	.00	.00
Upholsterers	.40	.24	.16	.02	.01	.01	.00	.00	.00
Other crafts workers	.46	.38	.22	.40	.32	.19	.40	.34	.15
Operatives	46.82	45.52	42.39	47.75	45.62	45.22	49.24	48.71	49.98
Operatives,except transport	45.24	43.86	40.17	43.54	41.69	40.87	37.32	37.97	38.76
Semiskilled metalworking	3.94	3.02	2.08	.61	.56	.54	.39	.41	.54
Drill press operatives	.30	.18	.05	.03	.02	.01	.01	.00	.00
Furnace tendrs,smeltrs,pourers	.05	.06	.07	.01	.01	.01	.00	.00	.00
Grinding machine operatives	.19	.14	.08	.03	.03	.02	.04	.03	.02
Lathe,milling mach operatives	.39	.25	.14	.08	.06	.04	.04	.02	.01
Metal platers	.34	.26	.06	.02	.01	.01	.00	.00	.00
Other precision mach operators	.17	.12	.06	.04	.03	.02	.01	.01	.01
Punch,stamping press operatives	.92	.64	.23	.11	.09	.05	.02	.01	.01
Solderers	.64	.35	.03	.01	.01	.00	.01	.01	.00
Welders and flamecutters	.93	1.02	1.35	.28	.30	.38	.26	.32	.49
Semiskilled textile operatives	.00	.00	.00	5.33	4.63	3.90	.00	.00	.00
Carding,lapping combing oprs	.00	.00	.00	.22	.16	.07	.00	.00	.00
Knitters,loopers, and toppers	.00	.00	.00	.42	.36	.30	.00	.00	.00
Spinners, twisters, winders	.00	.00	.00	1.82	1.62	1.48	.00	.00	.00
Weavers	.00	.00	.00	.56	.46	.31	.00	.00	.00
Other textile operatives	.00	.00	.00	2.31	2.03	1.74	.00	.00	.00
Semiskilled packing, inspecting	7.18	7.00	7.80	7.35	7.55	9.16	12.17	12.68	16.72
Checkers, exariners, mfg	2.84	2.89	3.35	2.72	2.93	3.60	1.59	1.80	2.57
Graders and scrters, mfg	.27	.24	.14	.40	.41	.45	.93	1.05	1.43
Packer,wrapper,exc meat,prodce	4.07	3.87	4.31	4.23	4.20	5.11	9.65	9.84	12.72

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc manufacturing			Nondurable goods			Food and kindred products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	34.12	33.85	30.29	30.26	28.95	27.27	24.75	24.88	21.50
Asbestos, insulation workers	.00	.00	.00	.03	.05	.04	.00	.00	.00
Assemblers	7.96	8.88	11.33	.91	1.14	1.59	.68	.88	1.42
Bottling, canning operatives	.10	.10	.11	.69	.68	.65	2.94	3.01	3.06
Clothing ironers and pressers	.02	.01	.00	.78	.57	.52	.00	.00	.00
Cutting operatives, other	1.09	1.09	1.06	1.38	1.38	1.32	.32	.32	.27
Drillers, earth	.07	.05	.01	.01	.01	.01	.00	.00	.00
Dry wall installers, lathers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Dyers	.09	.09	.08	.32	.31	.37	.00	.00	.00
Filer, polisher, sander, buffer	2.13	1.57	.52	.07	.06	.04	.03	.02	.01
Garage wrkr, gas station atten	.00	.00	.00	.03	.02	.01	.05	.03	.01
Laundry, dry cleang oprs, other	.01	.01	.02	.03	.02	.02	.04	.03	.02
Meat cutters and butchers	.00	.00	.00	1.07	1.01	1.07	4.89	4.83	5.55
Mixing operatives	.32	.32	.29	.63	.62	.58	.72	.70	.52
Oilers, greasers, exc automobiles	.05	.05	.07	.15	.14	.14	.19	.20	.25
Painters, mfg articles	1.91	1.51	1.12	.23	.20	.18	.14	.11	.06
Photographic process workers	.04	.04	.06	.12	.14	.19	.00	.00	.00
Riveters and fasteners	.22	.21	.19	.08	.08	.06	.02	.02	.02
Sawyers	.36	.39	.49	.08	.09	.11	.03	.04	.05
Sewers and stitchers	1.94	1.69	2.04	10.40	9.08	10.38	.10	.09	.10
Shoemaking machine operatives	.02	.02	.01	.81	.58	.32	.01	.01	.00
Furnace tendr, stokr, exc metal	.12	.08	.07	.30	.21	.23	.26	.18	.17
winding operatives, other	.35	.31	.18	.17	.14	.08	.01	.01	.01
Miscellaneous machine operatives	8.76	8.84	7.29	7.83	8.17	6.65	8.21	8.27	6.58
Other operatives, exc transport	8.56	8.58	5.33	4.15	4.26	2.71	6.11	6.14	3.38
Transport equipment operatives	1.57	1.66	2.22	4.21	3.94	4.34	11.92	10.73	11.22
Delivery and route workers	.38	.36	.51	1.62	1.26	1.16	6.37	5.01	4.63
Fork lift, tow motor operatives	.51	.59	.67	.98	1.11	1.13	1.67	1.99	2.21
Rail vehicle operators, other	.00	.00	.00	.00	.00	.01	.01	.01	.01
railroad switch operators	.00	.00	.00	.01	.01	.01	.01	.01	.01
Taxicab drivers, chauffeurs	.05	.04	.01	.05	.04	.02	.06	.05	.02
Truck drivers	.64	.66	1.03	1.54	1.50	2.00	3.80	3.65	4.33
Service workers	1.76	1.49	.89	2.28	1.95	1.38	3.49	2.93	1.97
Cleaning service workers	1.25	1.04	.54	1.52	1.27	.72	2.20	1.83	.89
Bldg interior cleaners, other	.20	.19	.14	.28	.24	.14	.41	.38	.24
Janitors and sextons	1.05	.85	.40	1.24	1.03	.59	1.80	1.45	.65
Food service wrkrs	.10	.07	.06	.24	.18	.18	.70	.54	.56
Cooks, exc private households	.02	.01	.01	.11	.09	.11	.36	.32	.44
Dishwashers	.01	.01	.01	.02	.01	.01	.05	.03	.01
Food counter, fountain workers	.01	.01	.00	.03	.03	.03	.05	.05	.04
Waiters	.03	.02	.02	.03	.02	.01	.08	.04	.02
Other food serv wrks, exc privt	.03	.02	.02	.05	.04	.02	.15	.09	.04
Health service workers	.00	.00	.00	.01	.01	.03	.01	.01	.03
Nursing aides and orderlies	.00	.00	.00	.01	.01	.03	.01	.01	.03
Personal service workers	.07	.06	.03	.09	.08	.05	.15	.13	.09
Attendants, personal serv, other	.00	.00	.00	.03	.02	.01	.04	.02	.01
Elevator operators	.04	.03	.02	.05	.04	.03	.08	.08	.07
Hairdressers and cosmetologists	.02	.02	.01	.00	.01	.01	.00	.00	.00
Housekeepers, exc private homes	.02	.01	.01	.01	.01	.01	.02	.02	.01
Protective service workers	.34	.32	.27	.42	.41	.39	.42	.43	.40
Firefighters	.01	.01	.02	.01	.01	.01	.01	.01	.01
Guards	.32	.30	.23	.41	.40	.39	.41	.42	.39
Police and detectives	.01	.01	.02	.00	.00	.00	.01	.01	.01
Laborers, except farm	2.78	2.51	1.93	4.48	4.00	3.06	8.23	7.40	5.35
Animal caretakers, exc farm	.00	.00	.00	.03	.03	.03	.09	.11	.09
Carpenter helpers	.05	.05	.07	.03	.02	.03	.03	.03	.05
Constr labr, exc carpenter helper	.07	.06	.03	.09	.08	.06	.08	.06	.02
Fishers, hunters, trappers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Freight and material handlers	1.09	1.05	1.02	2.23	2.06	1.81	4.42	4.15	3.52
Garbage collectors	.00	.00	.00	.00	.00	.01	.01	.01	.02
Gardenrs, groundkeepers, exc farm	.05	.05	.03	.04	.05	.04	.06	.07	.05
Stock handlers	.60	.54	.23	.62	.57	.29	.65	.56	.20
Teamsters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Vehicle washers, equip cleaners	.16	.14	.06	.42	.34	.13	.97	.76	.23
Warehouse labcrers, other	.15	.13	.10	.25	.24	.24	.49	.44	.34
Other laborers	.59	.49	.38	.75	.59	.41	1.39	1.17	.81

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Meat products			Dairy products			Canning and preserving		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.88	2.12	1.91	4.08	5.07	6.59	4.16	4.39	3.98
Engineers, technical	.37	.37	.32	.48	.45	.40	.68	.60	.47
Chemical	.01	.01	.01	.02	.02	.05	.00	.00	.00
Civil	.02	.02	.02	.02	.02	.04	.02	.01	.01
Electrical	.02	.02	.02	.03	.03	.04	.08	.08	.09
Industrial	.20	.21	.17	.26	.25	.17	.28	.25	.12
Mechanical	.09	.08	.06	.12	.10	.08	.18	.18	.20
Other engineers	.04	.04	.04	.03	.03	.02	.12	.09	.06
Life and physical scientists	.10	.12	.10	.13	.16	.18	.48	.53	.50
Agricultural	.00	.00	.00	.01	.02	.03	.06	.07	.07
Biological	.02	.03	.03	.03	.04	.04	.08	.13	.15
Chemists	.08	.08	.07	.09	.09	.11	.35	.33	.28
Mathematical specialists	.01	.01	.01	.00	.00	.00	.01	.01	.01
Engineering, science technicians	.26	.28	.29	1.83	2.42	3.87	1.16	1.25	1.34
Agricultural, biolgycl, exc health	.16	.18	.17	1.72	2.30	3.76	.85	.92	.96
Chemical technicians	.01	.01	.01	.01	.01	.01	.03	.03	.03
Drafters	.04	.03	.04	.00	.00	.00	.13	.12	.18
Electrical and electronic	.01	.01	.01	.01	.01	.01	.02	.02	.02
Industrial engineering	.04	.05	.06	.04	.05	.04	.06	.07	.08
Mechanical engineering	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other engineering, science tecn	.01	.01	.01	.04	.05	.05	.07	.06	.07
Medical workers, exc technicians	.07	.08	.12	.02	.04	.06	.08	.09	.12
Dietitians	.00	.00	.00	.01	.01	.02	.01	.01	.01
Registered nurses	.05	.05	.05	.01	.02	.04	.07	.08	.11
Veterinarians	.02	.03	.07	.00	.00	.00	.00	.00	.00
Computer specialists	.10	.12	.09	.16	.22	.23	.19	.23	.21
Computer programers	.08	.09	.07	.10	.12	.13	.14	.16	.16
Computer systems analysts	.02	.03	.02	.05	.08	.08	.05	.06	.05
Other computer specialists	.00	.00	.00	.02	.03	.02	.00	.01	.00
Social scientists	.04	.06	.05	.05	.08	.06	.00	.00	.00
Economists	.04	.06	.05	.05	.08	.06	.00	.00	.00
Teachers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Adult education	.00	.00	.00	.01	.01	.01	.00	.00	.00
Writers, artists, entertainers	.08	.11	.13	.17	.23	.24	.12	.14	.10
Designers	.01	.01	.01	.02	.03	.06	.01	.01	.01
Editors and reporters	.01	.01	.03	.00	.00	.00	.00	.00	.00
Painters and sculptors	.01	.01	.01	.02	.02	.01	.02	.02	.01
Public relations specialists	.05	.07	.08	.14	.18	.18	.08	.09	.08
Other writers, artists, entertain	.00	.00	.00	.00	.00	.00	.01	.02	.00
Other professional and technical	.84	.97	.81	1.22	1.47	1.52	1.43	1.54	1.23
Accountants	.57	.66	.58	.91	1.09	1.21	.79	.87	.75
Home management advisors	.01	.01	.01	.01	.01	.01	.04	.02	.01
Lawyers	.02	.04	.03	.05	.10	.08	.03	.05	.03
Operations and systems research	.03	.04	.04	.05	.06	.06	.08	.11	.10
Personnel, labor relations wkrs	.18	.20	.15	.17	.19	.16	.37	.40	.32
Other research workers	.03	.02	.01	.03	.02	.01	.13	.09	.03
Managers, officials, proprietors	5.16	5.56	4.90	8.75	10.21	9.65	6.13	7.06	7.82
Buyers, sales, loan managers	1.69	1.51	1.71	1.65	1.50	1.63	1.33	1.12	.94
Bank, financial managers	.08	.07	.04	.14	.13	.08	.11	.09	.04
Credit managers	.07	.04	.02	.18	.11	.12	.05	.03	.05
Buyers, shippers, farm products	.69	.57	.87	.33	.27	.41	.25	.19	.22
Purchasing agents, buyers, other	.44	.37	.28	.25	.21	.17	.50	.39	.24
Sales manager, exc retail trade	.42	.46	.50	.75	.79	.85	.43	.42	.39
Other managers, officials, proprt	3.46	4.05	3.19	7.10	8.71	8.02	4.79	5.94	6.88
Office managers, other	.27	.29	.32	.64	.67	.74	.37	.37	.38
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.04	.03	.03
Restaurant, cafe, bar, managers	.03	.03	.01	.00	.00	.00	.03	.02	.01
Other managers, administrators	3.16	3.74	2.86	6.46	8.04	7.28	4.36	5.51	6.46

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Meat products			Dairy products			Canning and preserving		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	2.59	2.38	1.60	2.93	2.47	1.24	1.24	1.13	.84
Advertising agents,sales worker	.01	.01	.01	.03	.05	.09	.01	.01	.01
Other sales workers	2.58	2.36	1.59	2.90	2.42	1.15	1.23	1.12	.83
Clerical workers	7.94	7.71	6.92	10.70	10.59	11.62	9.45	9.02	9.08
Stenographs,typists,secretaries	1.28	1.28	1.43	2.33	2.49	3.51	2.59	2.62	3.38
Legal secretaries	.01	.00	.00	.02	.02	.02	.01	.01	.01
Other secretaries	1.05	1.10	1.30	1.94	2.15	3.16	2.05	2.20	3.01
Stenographers	.03	.02	.01	.02	.01	.01	.09	.04	.00
Typists	.20	.16	.12	.36	.31	.32	.43	.37	.35
Office machine operators	.59	.62	.42	.97	.90	.62	.60	.62	.39
Bookkeeping and billing	.04	.02	.01	.08	.04	.03	.07	.03	.01
Calculating	.09	.05	.01	.31	.18	.06	.03	.02	.00
Computer and peripheral equip	.13	.30	.27	.16	.36	.33	.16	.34	.25
Duplicating	.01	.01	.01	.01	.01	.01	.02	.01	.01
Keypunch	.31	.23	.11	.35	.27	.17	.26	.19	.10
Tabulating	.00	.00	.00	.00	.00	.00	.03	.01	.00
Other office machine operators	.02	.02	.02	.05	.05	.03	.04	.03	.01
Other clerical workers	6.08	5.81	5.08	7.40	7.20	7.48	6.26	5.78	5.32
Billing clerks	.15	.16	.21	.23	.24	.33	.13	.14	.17
Bookkeepers	1.39	1.36	1.29	3.15	3.17	3.50	1.31	1.30	1.41
Cashiers	.13	.14	.16	.28	.29	.30	.08	.09	.15
Clerical supervisors, other	.03	.04	.05	.10	.12	.12	.12	.13	.10
Collectors, bill and account	.01	.01	.01	.01	.01	.01	.00	.00	.00
Counter clerks,exc food	.11	.12	.14	.28	.28	.26	.07	.07	.07
Dispatchers,starters,vehicle	.05	.05	.05	.07	.07	.05	.05	.04	.02
Estimators,investigators,other	.04	.05	.04	.09	.09	.04	.07	.07	.04
Expeditors,production controlrs	.12	.12	.10	.17	.16	.10	.18	.16	.09
File clerks	.07	.06	.06	.10	.08	.10	.11	.09	.10
Mail handlers,exc post office	.06	.06	.04	.05	.04	.05	.10	.09	.06
Messengers and office helpers	.03	.03	.02	.00	.00	.00	.02	.02	.01
Payroll,timekeeping clerks	.27	.31	.33	.27	.29	.29	.52	.58	.60
Receptionists	.10	.09	.06	.21	.18	.10	.16	.13	.05
Shipping and receiving clerks	1.15	1.04	.98	1.02	.99	1.26	.98	.95	1.26
Statistical clerks	.13	.14	.13	.14	.15	.15	.17	.17	.14
Stock clerks and store keepers	.31	.24	.10	.50	.37	.16	.65	.43	.13
Telephone operators	.09	.06	.05	.15	.11	.12	.11	.08	.10
Weighers	1.56	1.43	.88	.22	.20	.13	.98	.81	.36
Misc clerical workers	.29	.32	.38	.37	.37	.42	.47	.46	.46
Crafts and kindred workers	7.11	7.97	9.10	10.21	10.76	11.43	12.56	14.03	17.14
Construction crafts workers	.86	.86	.88	.49	.48	.51	1.28	1.27	1.43
Carpenters and apprentices	.23	.27	.35	.11	.11	.09	.26	.28	.31
Brick,stonemasons, apprentices	.02	.02	.00	.01	.01	.01	.01	.01	.00
Bulldozer operators	.10	.08	.07	.02	.02	.01	.15	.11	.07
Electricians and apprentices	.27	.30	.34	.18	.21	.31	.57	.62	.79
Excavating,grading mach operatr	.02	.02	.01	.01	.00	.00	.01	.01	.01
Painters and apprentices	.06	.05	.02	.14	.10	.03	.13	.10	.04
Plumbers,pipefitters,apprentices	.14	.12	.09	.03	.03	.06	.14	.14	.20
Blue collar worker supervisors	3.31	3.84	4.51	4.17	4.57	5.03	4.84	5.49	6.79
Metalworkg craft wrkrs,exc meca	.39	.48	.76	.38	.49	.96	.79	.94	1.62
Boilermakers	.00	.00	.00	.03	.04	.07	.03	.04	.05
Forge and hammer operators	.00	.00	.00	.01	.01	.01	.00	.00	.00
Job and die setters, metal	.00	.00	.00	.01	.01	.01	.02	.02	.02
Machinists and apprentices	.24	.31	.57	.30	.40	.82	.61	.76	1.37
Millwrights	.12	.14	.17	.01	.01	.01	.08	.09	.14
Rollers and finishers,metal	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sheetmetal workers, apprentices	.03	.03	.02	.01	.00	.00	.03	.02	.03
Tool and diemakers, apprentices	.00	.00	.00	.01	.01	.01	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Meat products			Dairy products			Canning and preserving		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	2.01	2.31	2.54	4.15	4.26	3.94	4.69	5.35	5.94
Air cond, heating, refrig mech	.16	.25	.32	.51	.70	.72	.16	.25	.32
Auto body repairers	.01	.01	.01	.05	.03	.02	.00	.00	.00
Auto mechanics and apprentices	.44	.36	.19	1.76	1.39	.73	.25	.19	.07
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.01	.02	.04
Farm implement mechanics	.00	.00	.00	.06	.06	.07	.03	.03	.03
Heavy equip mech, incl diesel	1.26	1.56	1.96	1.70	2.02	2.38	4.02	4.68	5.38
Household appliance mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Radio, television repairers	.01	.01	.01	.01	.01	.02	.02	.03	.04
Other mechanics and apprentices	.13	.12	.06	.05	.05	.01	.19	.15	.06
Printing trade crafts workers	.03	.04	.06	.08	.09	.08	.18	.22	.32
Compositors and typesetters	.02	.02	.02	.05	.05	.04	.12	.14	.20
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.01	.01	.04
Press, plate printers, apprentices	.01	.02	.04	.03	.04	.03	.05	.06	.08
Transport, public util craft wkrs	.02	.02	.02	.00	.00	.00	.01	.01	.01
Elec pwr line installer, repairer	.01	.01	.01	.00	.00	.00	.00	.00	.00
Power station operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	.49	.44	.34	.93	.87	.91	.77	.75	1.04
Bakers	.01	.01	.00	.05	.05	.08	.20	.22	.37
Cabinetmakers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Crane, derrick, hoist operator	.02	.02	.03	.01	.01	.01	.10	.09	.13
Decorators, window dressers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Inspectors, other	.06	.09	.12	.05	.07	.13	.03	.04	.06
Millers, grain, flour, feed	.00	.00	.00	.01	.01	.01	.03	.03	.07
Sign painters and letterers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Stationary engineers	.36	.29	.17	.78	.68	.63	.38	.35	.41
Other crafts workers	.03	.03	.02	.01	.01	.01	.04	.03	.01
Operatives	63.17	63.21	67.29	52.23	51.09	52.16	54.88	54.59	54.29
Operatives, except transport	57.92	57.97	61.16	26.11	27.24	28.95	48.36	47.53	45.80
Semiskilled metalworking	.35	.33	.37	.15	.18	.31	.54	.55	.75
Grinding machine operatives	.13	.10	.05	.00	.00	.00	.04	.03	.02
Lathe, milling mach operatives	.01	.01	.01	.00	.00	.00	.07	.04	.01
Metal platers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Other precision mach operators	.01	.01	.01	.00	.00	.00	.02	.01	.01
Punch, stamping press operatives	.00	.00	.00	.01	.01	.00	.03	.02	.01
Solderers	.00	.00	.00	.01	.01	.00	.01	.01	.01
Welders and flamecutters	.18	.22	.31	.12	.16	.31	.36	.43	.71
Semiskilled packing, inspecting	14.02	14.59	19.08	6.23	6.78	10.41	16.60	16.94	22.19
Checkers, examiners, mfg	1.55	1.67	2.07	1.14	1.32	2.05	2.51	2.80	4.05
Graders and sorters, mfg	.87	.94	1.15	.73	.82	1.16	3.21	3.40	4.32
Packer, wrapper, exc meat, produce	11.61	11.98	15.86	4.36	4.63	7.19	10.88	10.74	13.82

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Meat products			Dairy products			Canning and preserving		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	43.56	43.04	41.71	19.74	20.28	18.23	31.22	30.04	22.86
Assemblers	.51	.67	1.15	.33	.44	.84	1.14	1.39	2.22
Bottling,canning operatives	.86	.92	.98	2.92	3.03	3.29	5.61	5.50	4.94
Surveyors' helpers	.00	.00	.00	.03	.03	.05	.00	.00	.00
Cutting operatives, other	.54	.55	.52	.12	.12	.12	.42	.39	.29
Filer,polisher,sander,buffer	.01	.01	.01	.02	.02	.01	.02	.01	.01
Garage wrkr,gas station atten	.03	.02	.02	.06	.03	.01	.06	.03	.01
Laundry,dry cleang oprs,other	.14	.10	.05	.01	.01	.01	.05	.03	.01
Meat cutters and butchers	22.77	21.30	24.76	.12	.11	.14	2.66	2.24	2.00
Mixing operatives	.16	.17	.15	.56	.54	.47	.59	.54	.34
Oilers,greasers,exc automobiles	.08	.08	.10	.03	.04	.06	.11	.13	.22
Painters, mfg articles	.06	.04	.02	.11	.09	.06	.19	.14	.08
Riveters and fasteners	.03	.03	.02	.01	.01	.01	.04	.04	.03
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.02	.02	.04
Sawyers	.08	.09	.12	.00	.00	.00	.05	.06	.10
Sewers and stitchers	.12	.11	.15	.03	.03	.04	.07	.06	.05
Furnace tendr,stokr,exc metal	.11	.06	.01	.26	.16	.09	.37	.26	.29
Winding operatives, other	.01	.01	.01	.01	.01	.01	.01	.01	.01
Miscellaneous machine operatives	7.00	7.42	6.52	13.27	13.77	11.95	9.74	9.62	7.38
Other operatives,exc transport	11.07	11.46	7.11	1.86	1.84	1.07	10.10	9.59	4.84
Transport equipment operatives	5.25	5.24	6.13	26.12	23.85	23.21	6.51	7.05	8.49
Boat operators	.00	.00	.00	.00	.00	.00	.02	.02	.01
Bus drivers	.01	.01	.01	.00	.00	.00	.02	.03	.02
Delivery and route workers	1.48	1.44	1.93	19.66	17.39	15.76	.53	.50	.69
Fork lift,tow motor operatives	.46	.56	.63	.56	.65	.71	3.75	4.24	4.29
Rail vehicle operators, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Parking attendants	.02	.02	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.04	.03	.01	.04	.03	.01	.05	.04	.02
Truck drivers	3.24	3.18	3.55	5.85	5.77	6.73	2.14	2.21	3.45
Service workers	3.28	2.89	1.96	2.34	1.84	1.04	4.37	3.59	2.76
Cleaning service workers	2.25	1.99	1.18	1.54	1.23	.54	2.40	1.89	.80
Bldg interior cleaners, other	.36	.37	.30	.21	.18	.09	.30	.27	.15
Janitors and sextons	1.89	1.62	.88	1.33	1.05	.45	2.10	1.62	.65
Food service workers	.45	.35	.31	.60	.41	.30	1.19	.97	1.22
Waiters' assistants	.00	.00	.00	.01	.02	.03	.00	.00	.00
Cooks,exc private households	.24	.20	.22	.13	.11	.12	.87	.76	1.10
Dishwashers	.02	.01	.01	.05	.02	.01	.05	.03	.02
Food counter,fountain workers	.03	.03	.04	.15	.13	.10	.05	.05	.05
Waiters	.01	.01	.01	.22	.11	.04	.02	.01	.01
Other food serv wkrs,exc privt	.14	.09	.04	.04	.02	.01	.20	.12	.04
Health service workers	.01	.02	.05	.00	.00	.00	.04	.03	.08
Nursing aides and orderlies	.01	.01	.05	.00	.00	.00	.03	.03	.07
Practical nurses	.01	.00	.00	.00	.00	.00	.01	.01	.01
Personal service workers	.16	.13	.05	.04	.04	.03	.15	.12	.11
Attendants,personal serv,other	.03	.02	.01	.01	.01	.01	.03	.02	.01
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.02	.02	.02
Elevator operators	.12	.10	.03	.01	.01	.01	.06	.07	.08
Housekeepers, exc private hcmes	.01	.01	.01	.01	.01	.01	.03	.02	.01
Protective service workers	.41	.41	.38	.17	.17	.17	.59	.58	.56
Firefighters	.01	.01	.01	.01	.01	.02	.00	.00	.00
Guards	.40	.40	.37	.16	.15	.15	.57	.56	.54
Police and detectives	.01	.01	.01	.00	.00	.00	.02	.02	.02
Laborers, except farm	8.88	8.17	6.31	8.77	7.97	6.29	7.23	6.20	4.10
Animal caretakers, exc farm	.30	.35	.31	.06	.07	.05	.02	.02	.02
Carpenter helpers	.01	.01	.01	.00	.00	.00	.06	.06	.11
Constr labr,exc carpenter helpr	.11	.08	.03	.05	.04	.02	.06	.04	.02
Fishers,hunters,trappers	.00	.00	.00	.00	.00	.00	.09	.06	.01
Freight and material handlers	3.94	3.86	3.61	4.81	4.57	4.33	3.74	3.37	2.61
Garbage collectors	.01	.01	.01	.00	.00	.00	.01	.02	.03
Gardens,groundkeepers,exc farm	.04	.04	.05	.02	.03	.02	.07	.05	.02
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.01	.01	.00
Timbercutting, logging workers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Stock handlers	.59	.53	.20	.66	.59	.24	.44	.36	.10
Teamsters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Vehicle washers,equip cleaners	.79	.67	.23	1.59	1.31	.46	.89	.70	.20
Warehouse labcrers, other	.08	.07	.05	.27	.28	.38	.90	.76	.47
Other laborers	2.99	2.53	1.79	1.31	1.08	.77	.93	.74	.49

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grain mill products			Bakery products			Confectionery products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	5.58	6.02	5.82	1.60	2.03	2.78	3.09	3.35	3.18
Engineers, technical	.73	.65	.50	.43	.50	.78	.53	.47	.37
Chemical	.10	.10	.09	.01	.00	.00	.02	.02	.02
Civil	.05	.04	.05	.04	.04	.07	.00	.00	.00
Electrical	.03	.03	.04	.04	.05	.07	.00	.00	.00
Industrial	.30	.27	.14	.18	.23	.33	.26	.21	.06
Mechanical	.11	.09	.06	.09	.11	.20	.14	.15	.20
Other engineers	.14	.12	.12	.07	.08	.11	.11	.09	.08
Life and physical scientists	.77	.79	.66	.07	.10	.17	.32	.30	.21
Agricultural	.02	.03	.03	.00	.00	.00	.00	.00	.00
Biological	.08	.12	.10	.00	.00	.00	.03	.04	.06
Chemists	.67	.64	.52	.07	.10	.17	.29	.26	.15
Physicists and astronomers	.00	.00	.01	.00	.00	.00	.00	.00	.00
Mathematical specialists	.00	.00	.00	.00	.00	.00	.02	.02	.01
Statisticians	.00	.00	.00	.00	.00	.00	.02	.02	.01
Engineering, science technicians	1.67	1.83	2.04	.20	.28	.46	.63	.68	.65
Agricultural, biol, exc health	1.22	1.39	1.60	.13	.16	.20	.52	.57	.55
Chemical technicians	.10	.09	.06	.02	.03	.06	.00	.00	.00
Drafters	.12	.11	.16	.02	.02	.03	.03	.03	.03
Electrical and electronic	.01	.01	.01	.00	.00	.00	.03	.03	.03
Industrial engineering	.06	.07	.06	.02	.03	.06	.02	.02	.02
Mechanical engineering	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.15	.15	.14	.02	.04	.11	.03	.03	.03
Medical workers, exc technicians	.18	.23	.39	.03	.03	.04	.09	.10	.11
Dietitians	.10	.11	.21	.00	.00	.00	.00	.00	.00
Registered nurses	.04	.04	.07	.03	.03	.04	.09	.10	.11
Veterinarians	.04	.05	.09	.00	.00	.00	.00	.00	.00
Other medical and health tech	.01	.04	.02	.00	.00	.00	.00	.00	.00
Health technologists, technicians	.01	.02	.01	.00	.00	.00	.00	.00	.00
Other health technicians	.01	.02	.01	.00	.00	.00	.00	.00	.00
Technicians, except health	.01	.00	.00	.02	.03	.05	.00	.00	.00
Airplane pilots	.00	.00	.00	.02	.03	.05	.00	.00	.00
Computer specialists	.17	.22	.20	.07	.09	.13	.19	.24	.22
Computer programmers	.11	.13	.13	.06	.07	.08	.13	.15	.14
Computer systems analysts	.04	.07	.07	.01	.02	.05	.05	.06	.05
Other computer specialists	.01	.02	.01	.00	.00	.00	.01	.02	.02
Social scientists	.09	.14	.13	.00	.00	.00	.06	.11	.10
Economists	.09	.14	.13	.00	.00	.00	.06	.11	.10
Teachers	.01	.01	.01	.01	.01	.01	.04	.03	.01
Adult education	.01	.01	.01	.01	.01	.01	.04	.03	.01
Writers, artists, entertainers	.18	.21	.18	.06	.08	.09	.12	.15	.18
Designers	.00	.00	.00	.00	.00	.00	.05	.07	.12
Editors and reporters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Painters and sculptors	.04	.04	.01	.00	.00	.00	.04	.04	.01
Photographers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Public relations specialists	.11	.14	.13	.05	.07	.09	.03	.04	.04
Other professional and technical	1.76	1.94	1.71	.72	.90	1.06	1.09	1.27	1.33
Accountants	1.08	1.25	1.28	.39	.51	.68	.57	.71	.89
Home management advisors	.04	.02	.01	.02	.01	.01	.01	.01	.01
Lawyers	.03	.05	.02	.01	.01	.00	.01	.02	.04
Librarians	.02	.02	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.12	.16	.15	.05	.09	.10	.14	.20	.17
Personnel, labor relations wkrs	.33	.34	.22	.19	.24	.27	.27	.28	.20
Other research workers	.15	.09	.02	.05	.04	.02	.09	.06	.02
Managers, officials, proprietors	10.43	12.00	12.52	5.72	7.33	8.81	5.72	6.59	5.94
Buyers, sales, loan managers	1.96	1.75	1.57	1.44	1.52	1.76	1.28	1.13	.87
Bank, financial managers	.11	.10	.06	.10	.10	.07	.06	.05	.03
Credit managers	.13	.06	.02	.04	.03	.05	.09	.06	.06
Buyers, shippers, farm products	.12	.09	.11	.01	.00	.00	.00	.00	.00
Purchasing agents, buyers, other	.61	.52	.42	.25	.23	.20	.41	.32	.17
Sales manager, exc retail trade	.99	.99	.96	1.04	1.17	1.44	.72	.71	.61

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grain mill products			Bakery products			Confectionery products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers,officials,properts	8.47	10.25	10.95	4.28	5.80	7.05	4.45	5.46	5.07
Office managers, other	.53	.52	.59	.44	.48	.56	.26	.27	.28
Restaurant,cafe,bar,managers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Other managers, administrators	7.93	9.72	10.36	3.84	5.32	6.49	4.17	5.17	4.78
Sales workers	4.30	4.16	4.03	5.80	6.01	6.46	3.76	3.36	2.12
Advertising agents,sales worker	.03	.04	.05	.01	.02	.01	.01	.01	.01
Other sales workers	4.28	4.12	3.97	5.78	5.99	6.45	3.75	3.35	2.11
Clerical workers	11.56	10.75	9.64	8.88	9.10	10.43	10.83	10.13	9.85
Stenographs,typists,secretaries	3.40	3.21	3.43	1.37	1.55	2.34	2.67	2.64	3.24
Legal secretaries	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other secretaries	2.69	2.67	3.03	1.04	1.24	1.93	1.84	1.96	2.58
Stenographers	.12	.06	.02	.04	.02	.01	.07	.03	.00
Typists	.59	.48	.37	.29	.29	.41	.76	.66	.65
Office machine operators	.66	.74	.49	.83	.76	.52	.81	.74	.42
Bookkeeping and billing	.03	.01	.00	.04	.01	.00	.10	.03	.01
Calculating	.05	.03	.01	.45	.29	.13	.02	.01	.01
Computer and peripheral equip	.20	.44	.35	.10	.26	.27	.17	.36	.29
Duplicating	.01	.01	.01	.00	.00	.00	.03	.02	.01
Keypunch	.29	.20	.08	.20	.16	.09	.42	.28	.09
Tabulating	.03	.01	.01	.00	.00	.00	.03	.01	.00
Other office machine operators	.05	.04	.03	.04	.04	.02	.05	.04	.01
Other clerical workers	7.51	6.80	5.73	6.68	6.79	7.57	7.35	6.74	6.20
Billing clerks	.16	.17	.20	.13	.14	.17	.26	.27	.32
Bookkeepers	2.81	2.54	2.18	1.42	1.61	2.25	1.51	1.55	1.85
Cashiers	.06	.05	.02	.38	.35	.21	.12	.12	.14
Clerical supervisors, other	.12	.13	.13	.13	.15	.16	.11	.12	.10
Collectors, bill and account	.01	.01	.01	.00	.00	.00	.00	.00	.00
Counter clerks,exc food	.19	.18	.18	.34	.33	.28	.21	.21	.19
Dispatchers,starters,vehicle	.10	.09	.06	.03	.03	.04	.02	.01	.01
Estimators,investigators,other	.14	.16	.10	.04	.05	.03	.13	.13	.08
Expeditors,production controlrs	.28	.26	.17	.16	.17	.16	.26	.20	.08
File clerks	.09	.08	.12	.07	.07	.11	.23	.21	.28
Mail handlers,exc post office	.11	.10	.08	.05	.04	.03	.11	.10	.09
Messengers and office helpers	.07	.06	.06	.03	.03	.04	.04	.05	.09
Payroll,timekeeping clerks	.24	.26	.25	.31	.40	.56	.43	.49	.55
Receptionists	.17	.13	.06	.16	.14	.09	.23	.17	.07
Shipping and receiving clerks	.70	.66	.76	1.95	1.93	2.40	1.63	1.44	1.32
Statistical clerks	.23	.24	.19	.15	.17	.18	.22	.24	.23
Stock clerks and store keepers	.53	.37	.14	.71	.57	.31	.84	.56	.17
Telephone operators	.15	.10	.09	.10	.08	.09	.18	.11	.06
Weighers	.61	.51	.25	.28	.26	.18	.43	.35	.16
Misc.clerical workers	.74	.71	.71	.26	.27	.28	.42	.41	.44
Crafts and kindred workers	18.35	19.67	22.88	28.27	28.99	30.39	9.46	10.59	12.52
Construction crafts workers	1.75	1.71	1.88	.53	.56	.69	.87	.92	1.17
Carpenters and apprentices	.24	.25	.26	.08	.08	.08	.22	.25	.33
Brick,stonemasons, apprentices	.04	.03	.00	.02	.02	.02	.00	.00	.00
Bulldozer operators	.21	.15	.07	.05	.04	.02	.00	.00	.00
Cement and concrete finishers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.75	.80	.99	.25	.30	.45	.46	.52	.72
Excavating,grading mach operatr	.06	.06	.08	.00	.00	.00	.00	.00	.00
Floor layers, exc tile setters	.00	.00	.00	.01	.01	.00	.02	.01	.01
Painters and apprentices	.13	.10	.05	.09	.07	.03	.05	.04	.01
Plumbers,pipefitters,aprentices	.31	.31	.40	.04	.05	.09	.13	.11	.10
Blue collar worker supervisors	4.63	5.13	5.98	4.03	5.01	6.98	3.66	4.12	4.82
Metalworkg craft wrkrs,exc mech	1.82	1.98	2.62	.62	.87	1.83	1.06	1.21	1.81
Boilermakers	.04	.05	.08	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.60	.70	1.10	.54	.79	1.72	.75	.84	1.16
Millwrights	.87	.94	1.01	.02	.02	.01	.17	.22	.35
Rollers and finishers,metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.29	.27	.37	.03	.03	.05	.10	.09	.14
Tool and diemakers, apprentices	.02	.02	.05	.02	.03	.05	.04	.05	.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grain mill products			Bakery products			Confectionery products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	3.32	3.62	3.77	4.01	4.49	5.02	3.13	3.65	4.10
Air cond, heating, refrig meca	.02	.03	.05	.04	.06	.07	.08	.11	.12
Auto accessories installers	.00	.00	.00	.06	.04	.01	.00	.00	.00
Auto body repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.39	.29	.11	1.33	1.28	1.31	.00	.00	.00
Farm implement mechanics	.01	.01	.01	.01	.01	.01	.00	.00	.00
Heavy equip mech, incl diesel	2.68	3.10	3.49	2.45	2.98	3.49	2.95	3.48	3.98
Household appliance mechanics	.00	.00	.00	.02	.01	.00	.00	.00	.00
Office machine repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Radio, television repairers	.01	.01	.03	.03	.03	.04	.00	.00	.00
Railroad, car shop repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.19	.16	.07	.06	.07	.08	.10	.07	.01
Printing trade crafts workers	.20	.23	.32	.02	.02	.00	.14	.15	.15
Compositors and typesetters	.09	.10	.13	.01	.01	.00	.06	.05	.02
Press, plate printers, apprentices	.10	.13	.19	.01	.01	.00	.08	.10	.13
Other crafts, kindred workers	6.64	7.00	8.32	19.05	18.04	15.87	.61	.54	.46
Bakers	.14	.15	.21	18.52	17.55	15.36	.17	.18	.22
Crane, derrick, hoist operator	.06	.05	.10	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Inspectors, other	.11	.13	.16	.01	.01	.01	.04	.05	.06
Millers, grain, flour, feed	5.90	6.32	7.65	.00	.00	.00	.00	.00	.00
Stationary engineers	.32	.25	.15	.39	.37	.43	.38	.29	.16
Other crafts workers	.13	.11	.05	.12	.10	.07	.01	.01	.01
Operatives	35.32	34.58	35.90	40.80	38.83	36.48	58.05	58.51	61.96
Operatives, except transport	25.14	24.21	21.90	27.14	27.16	25.28	56.01	56.37	59.36
Semiskilled metalworking	.70	.66	.82	.11	.08	.06	.24	.21	.27
Drill press operatives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.05	.03	.01	.01	.00	.00	.05	.03	.02
Lathe, milling mach operatives	.15	.08	.04	.03	.02	.00	.04	.02	.00
Other precision mach operators	.03	.02	.01	.02	.01	.00	.01	.01	.01
Punch, stamping press operatives	.07	.05	.02	.01	.01	.01	.02	.01	.01
Welders and flamecutters	.40	.47	.73	.04	.04	.05	.12	.14	.24
Semiskilled packing, inspecting	7.84	7.73	9.48	14.44	15.10	18.34	29.51	29.84	38.94
Checkers, examiners, mfg	1.29	1.46	2.18	.66	.82	1.31	1.74	2.01	3.03
Graders and scrsters, mfg	.19	.20	.26	.05	.05	.04	.77	.62	.25
Packer, wrapper, exc meat, prodce	6.36	6.07	7.04	13.73	14.24	17.00	27.00	27.22	35.66
Other operatives, exc transport	16.59	15.81	11.60	12.60	11.97	6.88	26.27	26.31	20.14
Assemblers	.40	.44	.52	.63	.92	1.05	1.02	1.35	2.49
Bottling, canning operatives	.23	.23	.23	.18	.18	.16	.08	.09	.12
Cutting operatives, other	.17	.16	.13	.43	.42	.30	.46	.43	.30
Filer, polisher, sander, buffer	.03	.02	.01	.02	.01	.00	.08	.05	.01
Garage wrkr, gas station atten	.01	.01	.01	.05	.03	.01	.00	.00	.00
Laundry, dry cleang oprs, other	.01	.01	.01	.00	.00	.00	.02	.01	.01
Meat cutters and butchers	.20	.17	.15	.03	.02	.00	.00	.00	.00
Mixing operatives	3.21	2.98	2.14	.38	.38	.32	.85	.77	.47
Oilers, greasers, exc automobiles	.50	.47	.40	.14	.16	.24	.18	.19	.24
Painters, mfg articles	.17	.12	.06	.12	.09	.04	.13	.11	.14
Photographic process workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Riveters and fasteners	.02	.02	.01	.01	.01	.00	.02	.02	.01
Sawyers	.01	.01	.01	.01	.01	.00	.00	.00	.00
Sewers and stitchers	.52	.42	.39	.02	.02	.02	.03	.02	.01
Furnace tendr, stokr, exc metal	.25	.16	.11	.07	.05	.09	.14	.11	.19
Winding operatives, other	.03	.02	.01	.04	.05	.04	.00	.00	.00
Miscellaneous machine operatives	7.95	7.83	5.99	3.95	4.04	3.02	19.34	19.30	14.06
Other operatives, exc transport	2.89	2.75	1.43	6.50	5.58	1.57	3.92	3.84	2.10
Transport equipment operatives	10.18	10.38	14.01	13.66	11.67	11.20	2.05	2.14	2.60
Bus drivers	.01	.02	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	1.58	1.39	1.52	10.40	8.24	6.87	.33	.25	.14
Fork lift, tow motor operatives	1.90	2.15	2.17	.60	.73	.80	.78	.91	.98
Railroad switch operators	.02	.03	.06	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.03	.02	.01	.02	.02	.01	.09	.10	.10
Truck drivers	6.64	6.78	10.25	2.64	2.69	3.53	.85	.89	1.38
Service workers	3.59	3.23	2.47	3.69	3.05	1.80	4.52	3.54	2.01
Cleaning service workers	2.57	2.24	1.45	2.63	2.29	1.24	2.48	1.85	.58
Bldg interior cleaners, other	.73	.71	.56	.61	.59	.41	.50	.42	.17
Janitors and sextons	1.83	1.53	.89	2.02	1.70	.84	1.98	1.43	.41

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grain mill products			Bakery products			Confectionery products		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.23	.18	.20	.80	.51	.29	1.37	1.12	1.05
Waiters' assistants	.00	.00	.00	.00	.00	.00	.01	.01	.03
Cooks, exc private households	.17	.14	.16	.24	.20	.20	.86	.73	.81
Dishwashers	.01	.01	.01	.16	.08	.03	.05	.03	.01
Food counter, fountain workers	.00	.00	.00	.06	.05	.01	.12	.13	.08
Waiters	.03	.02	.02	.18	.08	.03	.11	.07	.05
Other food serv wkrs, exc privt	.03	.02	.01	.18	.10	.02	.22	.15	.09
Health service workers	.01	.01	.01	.02	.02	.01	.00	.00	.00
Health aides, except nursing	.01	.01	.01	.01	.01	.01	.00	.00	.00
Personal service workers	.28	.29	.27	.08	.06	.03	.30	.28	.29
Attendants, personal serv, other	.01	.01	.01	.03	.02	.01	.05	.03	.01
Elevator operators	.24	.25	.26	.02	.02	.02	.24	.25	.27
Hairdressers and cosmetologists	.02	.03	.00	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.03	.02	.01	.01	.01	.01
Protective service workers	.52	.51	.53	.16	.17	.22	.38	.29	.10
Firefighters	.02	.02	.03	.00	.00	.00	.01	.01	.01
Guards	.50	.49	.50	.16	.17	.22	.37	.28	.09
Laborers, except farm	10.87	9.59	6.74	5.24	4.67	2.86	4.57	3.94	2.43
Animal caretakers, exc farm	.19	.21	.16	.00	.00	.00	.00	.00	.00
Carpenter helpers	.08	.07	.14	.03	.02	.01	.00	.00	.00
Constr labr, exc carpenter helpr	.14	.10	.04	.02	.01	.01	.05	.03	.01
Freight and material handlers	7.27	6.59	5.21	2.81	2.62	1.98	2.06	1.84	1.31
Garbage collectors	.01	.01	.01	.01	.02	.05	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.07	.07	.06	.02	.02	.04	.02	.02	.02
Longshore workers, stevedores	.02	.02	.03	.00	.00	.00	.00	.00	.00
Stock handlers	1.23	1.03	.34	.62	.56	.22	1.02	.86	.27
Teamsters	.02	.03	.05	.01	.01	.01	.00	.00	.00
Vehicle washers, equip cleaners	.46	.37	.12	1.24	1.01	.29	.73	.56	.13
Warehouse labcrers, other	.77	.61	.29	.21	.20	.16	.36	.37	.50
Other laborers	.62	.49	.31	.27	.20	.08	.33	.26	.19

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Beverages			Misc food preparation			Tobacco manufacturg		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.57	5.24	5.08	6.37	7.08	7.07	4.81	5.21	4.89
Engineers, technical	.48	.43	.33	1.07	.98	.81	.60	.56	.58
Chemical	.06	.06	.06	.16	.17	.22	.06	.06	.06
Civil	.04	.03	.03	.04	.03	.04	.03	.03	.04
Electrical	.07	.07	.06	.07	.07	.09	.00	.00	.00
Industrial	.22	.21	.12	.33	.30	.15	.21	.18	.09
Mechanical	.00	.00	.00	.26	.23	.21	.18	.18	.28
Sales	.00	.00	.00	.02	.01	.00	.00	.00	.00
Other engineers	.08	.07	.06	.19	.16	.11	.13	.11	.11
Life and physical scientists	.61	.64	.58	.77	.78	.67	.58	.57	.51
Atmospheric and space	.00	.00	.00	.00	.01	.01	.00	.00	.00
Biological	.06	.10	.11	.05	.08	.06	.04	.06	.06
Chemists	.55	.54	.47	.71	.69	.60	.55	.51	.40
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.00	.00	.05
Mathematical specialists	.04	.03	.02	.03	.03	.04	.00	.00	.00
Statisticians	.04	.03	.02	.03	.03	.04	.00	.00	.00
Engineering, science technicians	.89	1.00	1.15	1.85	2.07	2.38	1.19	1.12	.97
Agricultural, biolgcl, exc health	.58	.67	.81	1.29	1.51	1.85	.06	.05	.03
Chemical technicians	.07	.07	.04	.13	.11	.05	.11	.10	.07
Drafters	.08	.07	.10	.12	.11	.14	.14	.14	.23
Electrical and electronic	.02	.01	.01	.00	.00	.00	.08	.06	.02
Industrial engineering	.10	.13	.16	.14	.16	.14	.06	.06	.05
Mechanical engineering	.00	.00	.00	.01	.01	.01	.01	.01	.01
Surveyors	.00	.00	.00	.02	.02	.04	.00	.00	.00
Other engineering, science teca	.05	.05	.04	.15	.16	.16	.73	.70	.57
Medical workers, exc technicians	.04	.04	.04	.05	.05	.07	.11	.10	.12
Physicians and osteopaths	.00	.00	.00	.01	.01	.02	.01	.01	.04
Registered nurses	.04	.04	.04	.04	.04	.05	.10	.09	.09
Health technolcists, technicians	.00	.00	.00	.02	.02	.02	.02	.03	.01
Clinical lab technologists, tech	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other health technicians	.00	.00	.00	.01	.01	.01	.02	.03	.01
Technicians, except health	.06	.06	.05	.01	.02	.05	.05	.07	.13
Airplane pilots	.04	.03	.01	.00	.00	.00	.03	.05	.07
Radio operators	.02	.02	.00	.00	.00	.00	.00	.00	.00
Other technicians except health	.01	.02	.04	.01	.02	.05	.01	.03	.06
Computer specialists	.17	.20	.17	.31	.40	.38	.33	.42	.39
Computer programers	.12	.13	.11	.18	.21	.20	.25	.29	.27
Computer systems analysts	.05	.07	.06	.11	.16	.16	.06	.09	.10
Other computer specialists	.00	.00	.00	.02	.03	.02	.02	.04	.02
Social scientists	.20	.30	.25	.18	.27	.21	.23	.34	.28
Economists	.20	.30	.25	.18	.27	.21	.23	.34	.28
Teachers	.02	.02	.01	.01	.01	.01	.04	.03	.01
Adult education	.01	.01	.01	.01	.01	.01	.04	.03	.01
Writers, artists, entertainers	.51	.66	.66	.24	.30	.31	.27	.35	.37
Athletes and kindred workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Designers	.02	.03	.04	.05	.07	.11	.04	.06	.07
Editors and reporters	.02	.03	.05	.02	.02	.02	.01	.01	.01
Painters and sculptors	.05	.06	.04	.03	.04	.02	.01	.01	.00
Photographers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Public relations specialists	.37	.48	.49	.12	.16	.16	.19	.25	.28
Other writers, artists, entertain	.02	.03	.03	.01	.01	.01	.02	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Beverages			Misc food preparation			Tobacco manufacture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.56	1.86	1.82	1.85	2.15	2.13	1.39	1.62	1.52
Accountants	.92	1.09	1.20	1.18	1.40	1.52	.74	.85	.89
Architects	.01	.01	.01	.00	.00	.00	.00	.00	.00
Home management advisors	.00	.00	.00	.04	.03	.01	.00	.00	.00
Lawyers	.08	.13	.09	.05	.09	.06	.10	.19	.16
Operations and systems research	.14	.19	.14	.12	.16	.14	.08	.11	.11
Personnel, labor relations wkrs	.35	.40	.37	.34	.40	.39	.32	.33	.26
Other research workers	.06	.04	.01	.12	.07	.02	.15	.13	.09
Managers, officials, proprietors	9.25	10.76	11.35	8.94	10.57	11.81	4.87	5.38	5.89
Buyers, sales, loan managers	2.21	2.17	2.16	1.89	1.70	1.42	1.76	1.50	1.15
Bank, financial managers	.16	.13	.06	.14	.13	.07	.05	.05	.04
Credit managers	.08	.06	.08	.13	.08	.08	.05	.02	.01
Buyers, shippers, farm products	.00	.00	.00	.00	.00	.00	.08	.05	.06
Purchasing agents, buyers, other	.27	.22	.15	.66	.52	.35	.89	.68	.37
Sales manager, exc retail trade	1.70	1.76	1.86	.97	.97	.93	.70	.70	.66
Other managers, officials, proprts	7.04	8.59	9.20	7.04	8.87	10.39	3.11	3.88	4.74
Mgrs, superintendents, building	.01	.01	.01	.01	.01	.01	.01	.01	.01
Office managers, other	.50	.53	.58	.47	.48	.51	.31	.32	.35
Officers, pilots, pursers, ship	.00	.00	.00	.01	.01	.01	.00	.00	.00
Restaurant, cafe, bar, managers	.02	.02	.01	.02	.02	.01	.01	.01	.01
Other managers, administrators	6.51	8.04	8.60	6.54	8.35	9.86	2.77	3.54	4.37
Sales workers	5.66	5.59	5.62	3.54	3.71	4.64	3.60	3.89	5.40
Advertising agents, sales worker	.12	.16	.18	.01	.01	.01	.09	.13	.18
Other sales workers	5.54	5.43	5.44	3.53	3.69	4.63	3.51	3.76	5.22
Clerical workers	10.82	10.84	11.94	12.15	11.79	12.12	10.11	10.01	10.81
Stenographrs, typists, secretaries	3.46	3.55	4.58	3.60	3.70	4.88	2.67	2.65	3.32
Legal secretaries	.02	.02	.04	.01	.01	.01	.00	.00	.00
Other secretaries	2.83	3.03	4.03	2.81	3.02	4.11	2.06	2.16	2.90
Stenographers	.08	.04	.00	.09	.04	.00	.06	.03	.00
Typists	.53	.47	.51	.68	.63	.75	.55	.46	.42
Office machine operators	.62	.73	.52	.87	.95	.67	.79	.90	.58
Bookkeeping and billing	.06	.03	.02	.05	.02	.01	.02	.01	.01
Calculating	.03	.01	.01	.09	.04	.01	.06	.03	.01
Computer and peripheral equip	.20	.44	.40	.22	.50	.46	.26	.53	.40
Duplicating	.00	.00	.00	.03	.02	.01	.01	.01	.01
Keypunch	.30	.21	.08	.45	.33	.15	.38	.27	.13
Tabulating	.00	.00	.00	.01	.00	.00	.02	.01	.00
Other office machine operators	.03	.03	.03	.03	.03	.03	.05	.04	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Beverages			Misc food preparation			Tobacco manufacturg		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	6.74	6.57	6.84	7.68	7.14	6.57	6.65	6.46	6.90
Billing clerks	.14	.15	.19	.26	.27	.31	.17	.18	.23
Bookkeepers	2.41	2.44	2.83	2.13	2.12	2.40	1.25	1.29	1.62
Cashiers	.24	.26	.31	.16	.13	.05	.08	.10	.19
Clerical supervisors, other	.15	.17	.18	.12	.12	.09	.27	.29	.25
Collectors, bill and account	.01	.00	.00	.01	.01	.01	.00	.00	.00
Counter clerks,exc food	.17	.18	.19	.18	.17	.13	.13	.12	.12
Dispatchers,starters,venicle	.08	.08	.08	.03	.04	.05	.02	.02	.02
Estimators,investigators,other	.09	.10	.06	.15	.15	.07	.12	.11	.05
Expediters,prduction controirs	.27	.25	.17	.27	.24	.13	.09	.08	.05
File clerks	.15	.13	.17	.14	.10	.07	.25	.21	.28
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.03	.03	.01
Mail handlers,exc post office	.08	.07	.07	.12	.10	.08	.13	.11	.11
Messengers and office helpers	.05	.05	.03	.04	.03	.01	.03	.02	.01
Payroll,timekeeping clerks	.31	.36	.41	.37	.42	.43	.46	.52	.58
Receptionists	.23	.18	.08	.24	.20	.11	.16	.14	.11
Shipping and receiving clerks	.91	.88	1.12	1.24	1.17	1.39	.88	.86	1.16
Statistical clerks	.23	.24	.20	.26	.27	.21	.22	.22	.15
Stock clerks and store keepers	.55	.40	.16	.67	.47	.17	.75	.62	.49
Telephone operators	.13	.08	.05	.17	.12	.12	.13	.09	.10
Weighers	.07	.06	.04	.56	.46	.20	.43	.38	.23
Misc clerical workers	.50	.50	.52	.56	.56	.56	1.09	1.07	1.16
Crafts and kindred workers	15.48	15.69	15.62	15.86	16.46	17.27	14.48	16.02	19.21
Construction crafts workers	1.45	1.48	1.82	2.39	2.17	1.91	1.24	1.25	1.47
Carpenters and apprentices	.26	.26	.24	.40	.38	.28	.37	.38	.41
Brick,stonemasons, apprentices	.00	.00	.00	.06	.04	.01	.00	.00	.00
Bulldozer operators	.04	.03	.04	.50	.39	.23	.03	.03	.02
Electricians and apprentices	.61	.68	.92	.79	.82	.91	.54	.58	.73
Excavating,grading mach operatr	.02	.01	.01	.13	.09	.04	.00	.00	.00
Floor layers, exc tile setters	.00	.00	.00	.01	.01	.00	.02	.01	.00
Painters and apprentices	.22	.17	.06	.16	.12	.03	.07	.06	.03
Plumbers,pipefitters,apprentices	.30	.33	.56	.33	.32	.42	.21	.20	.27
Blue collar worker supervisors	4.35	4.86	5.69	5.04	5.53	6.06	4.57	5.19	6.60
Metalworkg craft wrkrs,exc meca	1.09	1.26	1.95	1.46	1.62	2.31	1.64	1.93	3.33
Blacksmiths	.00	.00	.00	.01	.01	.00	.00	.00	.00
Boilermakers	.04	.04	.05	.09	.09	.12	.00	.00	.00
Forge and hammer operators	.00	.00	.00	.01	.01	.01	.00	.00	.00
Machinists and apprentices	.86	1.02	1.63	1.01	1.18	1.82	1.26	1.55	2.74
Millwrights	.13	.16	.23	.19	.18	.11	.14	.16	.18
Pattern and mclmakers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Sheetmetal workers, apprentices	.06	.04	.04	.15	.15	.24	.16	.17	.32
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.05	.04	.07
Mechanics,repairers,installers	4.91	5.00	4.45	5.21	5.68	5.62	6.03	6.62	6.83
Air cond, heating, reirig meca	.23	.29	.27	.07	.09	.09	.13	.19	.24
Auto body repairers	.02	.01	.01	.02	.02	.02	.00	.00	.00
Auto mechanics and apprentices	.94	.72	.33	.66	.51	.24	.00	.00	.00
Data processing mach repairers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.03	.03	.03	.02	.02	.01
Heavy equip mech, incl diesel	2.47	2.91	3.41	4.18	4.82	5.14	4.95	5.69	6.28
Household appliance mechanics	.07	.06	.03	.01	.01	.01	.00	.00	.00
Radio, television repairers	.02	.02	.04	.00	.00	.00	.05	.05	.07
Railroad, car shop repairers	.00	.00	.00	.01	.01	.01	.04	.04	.06
Other mechanics and apprentices	1.16	.97	.36	.24	.19	.07	.84	.65	.18
Printing trade crafts workers	.05	.06	.09	.09	.11	.16	.12	.14	.18
Compositors and typesetters	.03	.03	.04	.05	.06	.09	.07	.08	.11
Press,plate printers,aprentices	.02	.03	.05	.04	.05	.07	.05	.06	.07
Transport,public util craft wrkrs	.02	.03	.04	.04	.06	.10	.00	.00	.00
Locomotive engineers	.00	.00	.00	.02	.04	.06	.00	.00	.00
Power station operators	.92	.92	.94	.92	.92	.94	.90	.90	.90

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Beverages			Misc food preparation			Tobacco manufacturing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	3.62	3.00	1.58	1.63	1.30	1.11	.89	.89	.81
Bakers	.04	.04	.04	.22	.22	.26	.00	.00	.00
Carpet installers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Crane,derrick,hoist operator	.02	.02	.02	.36	.31	.43	.00	.00	.00
Decorators, window dressers	.05	.09	.16	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Inspectors, other	.02	.02	.01	.07	.08	.11	.55	.58	.48
Millers, grain, flour, feed	.03	.03	.02	.07	.08	.14	.00	.00	.00
Sign painters and letterers	.12	.08	.01	.00	.00	.00	.01	.01	.00
Stationary engineers	.67	.54	.35	.86	.56	.15	.19	.19	.28
Other crafts workers	2.68	2.20	.97	.06	.05	.03	.12	.09	.03
Operatives	40.85	40.05	41.43	40.11	39.47	40.13	51.80	50.60	47.57
Operatives,except transport	22.88	23.28	24.29	30.92	30.32	28.78	49.10	47.59	43.55
Semiskilled metalworking	.25	.26	.33	1.04	1.04	1.20	.31	.29	.35
Drill press operatives	.01	.01	.01	.02	.01	.01	.04	.02	.00
Grinding machine operatives	.00	.00	.00	.06	.05	.03	.02	.01	.01
Lathe,milling mach operatives	.02	.01	.02	.06	.03	.01	.04	.02	.01
Other precision mach operators	.01	.01	.01	.02	.01	.01	.01	.01	.01
Punch,stamping press operatives	.02	.02	.01	.03	.02	.01	.06	.04	.01
Solderers	.01	.01	.00	.01	.00	.00	.00	.00	.00
Welders and flamecutters	.18	.20	.29	.85	.92	1.15	.16	.18	.30
Semiskilled packing, inspecting	4.86	5.15	6.98	11.25	11.09	13.49	22.03	21.41	24.66
Checkers, examiners, mfg	2.66	2.81	3.56	1.02	1.09	1.40	9.07	8.85	9.48
Graders and sorters, mfg	.46	.52	.75	.37	.39	.46	.84	.79	.61
Packer,wrapper,exc meat,prodc	1.74	1.82	2.67	9.86	9.62	11.63	12.13	11.77	14.57
Other operatives, exc transport	17.78	17.88	16.98	18.63	18.19	14.10	26.75	25.90	18.54
Assemblers	.82	.98	1.51	.67	.85	1.44	.55	.73	1.34
Bottling,canning operatives	10.02	10.21	10.41	1.06	1.06	.98	.04	.05	.05
Surveyors' helpers	.02	.02	.04	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Cutting operatives, other	.04	.04	.04	.29	.27	.19	.59	.55	.42
Drillers, earth	.02	.02	.01	.00	.00	.00	.00	.00	.00
Dyers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Filer,polisher,sander,buffer	.01	.01	.00	.07	.05	.01	.02	.01	.00
Garage wrkr,gas station atten	.06	.03	.01	.07	.04	.02	.00	.00	.00
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Meat cutters and butchers	.04	.03	.05	.29	.25	.23	.00	.00	.00
Mixing operatives	.66	.63	.51	.84	.77	.52	.61	.56	.37
Oilers,greasers,exc automobiles	.38	.40	.51	.34	.31	.26	.55	.56	.69
Painters, mfg articles	.20	.15	.08	.19	.15	.09	.16	.14	.17
Photographic process workers	.00	.00	.00	.01	.01	.01	.04	.03	.02
Riveters and fasteners	.00	.00	.00	.02	.02	.02	.00	.00	.00
Sawyers	.01	.01	.01	.04	.04	.04	.00	.00	.00
Sewers and stitchers	.05	.04	.04	.13	.11	.11	.09	.07	.06
Shoemaking machine operatives	.05	.04	.00	.00	.00	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	.32	.20	.14	.63	.45	.48	.29	.21	.27
Winding operatives, other	.01	.01	.01	.01	.01	.00	.11	.09	.04
Miscellaneous machine operatives	3.11	3.14	2.56	9.50	9.46	7.36	14.64	14.35	10.86
Other operatives,exc transport	1.96	1.91	1.04	4.46	4.33	2.34	9.05	8.54	4.28
Transport equipment operatives	17.97	16.78	17.14	9.20	9.15	11.35	2.70	3.01	4.02
Delivery and route workers	9.60	8.77	10.63	2.95	2.81	3.87	.16	.15	.19
Fork lift,tow motor operatives	3.57	4.11	4.32	1.53	1.75	1.79	1.64	1.85	1.90
Rail vehicle operators, other	.00	.00	.00	.04	.04	.07	.00	.00	.00
Parking attendants	.01	.01	.01	.01	.01	.00	.00	.00	.00
Railroad switch operators	.00	.00	.00	.04	.04	.07	.00	.00	.00
Taxicab drivers, chauffeurs	.18	.14	.03	.06	.04	.01	.11	.12	.13
Truck drivers	4.62	3.75	2.14	4.58	4.46	5.55	.79	.90	1.80
Service workers	2.81	2.26	1.26	4.09	3.18	1.77	3.48	2.88	1.96
Cleaning service workers	1.80	1.38	.50	2.18	1.65	.59	2.10	1.57	.52
Bldg interior cleaners, other	.31	.25	.09	.44	.37	.17	.79	.61	.21
Janitors and sextons	1.49	1.13	.41	1.74	1.28	.42	1.30	.96	.31
Food service wrkrs	.22	.18	.19	1.09	.82	.77	.26	.22	.23
Bartenders	.03	.03	.03	.01	.01	.01	.00	.00	.00
Waiters' assistants	.00	.00	.00	.02	.02	.03	.00	.00	.00
Cooks,exc private households	.07	.05	.05	.56	.48	.60	.09	.07	.06
Dishwashers	.01	.01	.01	.06	.03	.01	.03	.02	.01
Food counter,fountain workers	.02	.02	.04	.02	.02	.02	.06	.08	.12
Waiters	.02	.02	.02	.06	.04	.04	.04	.03	.04
Other food serv wrks,exc privt	.07	.05	.04	.38	.22	.07	.04	.03	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Beverages			Misc food preparation			Tobacco manufacture		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Health service workers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Health aides, except nursing	.00	.00	.00	.00	.00	.00	.01	.01	.01
Nursing aides and orderlies	.00	.00	.00	.01	.01	.02	.00	.00	.00
Personal service workers	.17	.10	.03	.19	.14	.05	.31	.24	.12
Attendants, personal serv, other	.10	.05	.00	.03	.02	.01	.06	.04	.01
Child care workers, exc private	.01	.01	.01	.00	.00	.00	.00	.00	.00
Elevator operators	.01	.01	.01	.12	.10	.03	.24	.20	.10
Housekeepers, exc private homes	.05	.03	.01	.03	.02	.01	.02	.01	.01
Protective service workers	.63	.61	.54	.63	.56	.34	.80	.84	1.08
Firefighters	.01	.01	.01	.02	.01	.02	.00	.00	.00
Guards	.61	.60	.54	.61	.54	.32	.80	.84	1.08
Laborers, except farm	10.57	9.57	7.70	8.94	7.75	5.19	6.87	6.02	4.27
Animal caretakers, exc farm	.01	.01	.01	.02	.03	.02	.01	.02	.01
Carpenter helpers	.04	.04	.05	.03	.03	.05	.00	.00	.00
Constr labr, exc carpenter help	.11	.08	.02	.15	.10	.03	.04	.03	.01
Freight and material handlers	6.94	6.51	5.84	3.93	3.60	2.88	4.55	4.11	3.25
Garbage collectors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.10	.11	.07	.18	.19	.14	.03	.02	.02
Longshore workers, stevedores	.00	.00	.00	.04	.04	.02	.00	.00	.00
Stock handlers	.25	.22	.08	1.03	.88	.31	.50	.37	.07
Teamsters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Vehicle washers, equip cleaners	.86	.69	.22	.84	.68	.21	.67	.60	.33
Warehouse labcrers, other	.87	.77	.59	.68	.60	.45	.18	.16	.13
Other laborers	1.39	1.14	.81	1.99	1.59	1.05	.89	.70	.45

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Textile mill products			Knitting mills			Dyeing, finishing textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.99	3.39	3.42	1.43	1.71	1.72	4.34	4.62	4.35
Engineers, technical	.52	.53	.52	.22	.23	.22	.76	.75	.71
Chemical	.03	.03	.03	.00	.00	.00	.07	.08	.11
Civil	.01	.01	.01	.00	.00	.00	.00	.00	.00
Electrical	.02	.02	.02	.00	.00	.00	.10	.09	.08
Industrial	.29	.30	.25	.18	.19	.18	.37	.36	.24
Mechanical	.11	.11	.14	.03	.03	.03	.12	.13	.20
Other engineers	.07	.06	.07	.01	.01	.02	.10	.09	.08
Life and physical scientists	.16	.17	.18	.00	.00	.00	.50	.54	.68
Chemists	.15	.16	.17	.00	.00	.00	.50	.54	.68
Engineering, science technicians	.84	.93	1.07	.23	.27	.36	1.53	1.54	1.34
Agricultural, biol, exc health	.00	.00	.00	.00	.00	.00	.01	.01	.01
Chemical technicians	.05	.05	.04	.00	.00	.00	.13	.13	.12
Drafters	.06	.06	.10	.03	.03	.06	.00	.00	.00
Electrical and electronic	.01	.01	.01	.02	.01	.01	.03	.02	.01
Industrial engineering	.05	.07	.08	.03	.04	.03	.08	.10	.09
Mechanical engineering	.01	.01	.02	.00	.00	.00	.03	.03	.02
Other engineering, science tech	.66	.72	.82	.15	.19	.26	1.25	1.24	1.09
Registered workers, exc technicians	.04	.04	.05	.02	.02	.04	.03	.03	.01
Registered nurses	.04	.04	.05	.02	.02	.04	.03	.03	.01
Health technologists, technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.01	.01	.01	.00	.00	.00
Technicians, except health	.02	.03	.05	.00	.01	.01	.00	.00	.00
Airplane pilots	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other technicians except health	.01	.02	.03	.00	.01	.01	.00	.00	.00
Computer specialists	.17	.22	.22	.11	.14	.13	.20	.26	.28
Computer programmers	.12	.14	.14	.08	.10	.10	.14	.17	.16
Computer systems analysts	.05	.07	.07	.03	.04	.03	.05	.08	.11
Other computer specialists	.01	.01	.01	.00	.00	.00	.01	.02	.01
Social scientists	.01	.02	.02	.00	.00	.00	.00	.00	.00
Economists	.01	.02	.02	.00	.00	.00	.00	.00	.00
Teachers	.08	.08	.03	.10	.10	.05	.07	.06	.01
Adult education	.08	.08	.03	.10	.10	.05	.07	.06	.01
Writers, artists, entertainers	.31	.38	.37	.22	.30	.34	.38	.47	.51
Designers	.24	.29	.28	.21	.27	.30	.22	.30	.42
Editors and reporters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Painters and sculptors	.03	.04	.03	.00	.00	.00	.12	.14	.06
Public relations specialists	.02	.03	.04	.02	.03	.04	.00	.00	.00
Other writers, artists, entertain	.01	.01	.01	.00	.00	.00	.03	.03	.03
Other professional and technical	.84	.99	.92	.52	.62	.57	.87	.98	.83
Accountants	.39	.47	.50	.25	.30	.29	.46	.53	.47
Lawyers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.10	.15	.14	.06	.09	.07	.10	.15	.16
Personnel, labor relations wkrs	.28	.31	.25	.19	.21	.19	.24	.25	.18
Other research workers	.06	.04	.02	.03	.03	.02	.06	.04	.01
Recreation workers	.00	.01	.01	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	3.37	4.27	5.08	3.18	4.06	4.57	3.67	4.75	6.37
Buyers, sales, loan managers	.52	.51	.55	.38	.37	.39	.44	.42	.40
Bank, financial managers	.08	.08	.07	.07	.07	.07	.10	.11	.11
Credit managers	.03	.02	.02	.02	.02	.02	.00	.00	.00
Purchasing agents, buyers, other	.19	.17	.17	.14	.12	.11	.13	.11	.08
Sales manager, exc retail trade	.22	.24	.29	.15	.16	.19	.21	.21	.21
Other managers, officials, proprts	2.85	3.76	4.53	2.80	3.69	4.18	3.23	4.33	5.97
Office managers, other	.20	.22	.26	.16	.18	.20	.36	.38	.43
Other managers, administrators	2.64	3.53	4.26	2.64	3.51	3.98	2.88	3.95	5.54

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Textile mill products			Knitting mills			Dyeing, finishing textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	1.05	1.16	1.56	.94	1.04	1.29	.66	.71	.98
Advertising agents,sales worker	.00	.01	.01	.01	.01	.03	.00	.00	.00
Other sales wrkrs	1.05	1.15	1.55	.94	1.02	1.26	.66	.71	.98
Clerical workers	8.43	8.57	9.51	8.17	8.34	8.96	10.91	10.47	10.29
Stenographrs,typists,secretaries	2.11	2.22	2.93	1.73	1.82	2.25	2.65	2.57	2.91
Other secretaries	1.56	1.74	2.46	1.30	1.45	1.89	1.62	1.72	2.25
Stenographers	.03	.02	.01	.01	.01	.01	.02	.01	.01
Typists	.52	.46	.46	.41	.37	.41	1.01	.84	.66
Office machine operators	.61	.65	.46	.61	.60	.39	.81	.87	.55
Bookkeeping and billing	.05	.02	.01	.07	.03	.02	.07	.03	.01
Calculating	.02	.01	.00	.00	.00	.00	.04	.02	.01
Computer and peripheral equip	.13	.30	.26	.09	.21	.17	.22	.47	.39
Duplicating	.01	.01	.01	.02	.02	.01	.00	.00	.00
Keypunch	.35	.27	.15	.39	.31	.18	.36	.25	.10
Tabulating	.01	.00	.00	.00	.00	.00	.01	.00	.00
Other office machine operators	.05	.04	.03	.04	.03	.02	.11	.10	.06
Other clerical workers	5.71	5.70	6.13	5.83	5.92	6.33	7.45	7.03	6.82
Billing clerks	.23	.25	.32	.18	.20	.24	.60	.62	.73
Bookkeepers	.81	.83	.91	.90	.91	.85	.98	.91	.70
Cashiers	.03	.04	.06	.04	.05	.10	.01	.01	.01
Clerical supervisors, other	.08	.09	.10	.05	.06	.07	.09	.10	.11
Counter clerks,exc food	.21	.23	.28	.34	.37	.41	.11	.11	.09
Dispatchers,starters,vehicle	.01	.01	.01	.01	.01	.01	.00	.00	.00
Estimators,investigators,other	.08	.10	.07	.05	.05	.02	.08	.09	.05
Expeditors,prduction controlrs	.40	.40	.37	.38	.40	.36	.53	.50	.38
File clerks	.15	.13	.16	.16	.14	.17	.19	.16	.19
Library attendants, assistants	.01	.01	.00	.00	.00	.00	.04	.04	.01
Mail handlers,exc post office	.07	.07	.07	.05	.05	.06	.14	.13	.09
Messengers and office helpers	.03	.02	.02	.02	.02	.03	.05	.05	.07
Payroll,timekeeping clerks	.41	.46	.45	.45	.53	.57	.28	.28	.17
Receptionists	.14	.12	.07	.15	.13	.07	.15	.13	.08
Shipping and receiving clerks	1.47	1.47	1.93	1.75	1.78	2.32	2.24	2.22	2.92
Statistical clerks	.20	.23	.23	.16	.17	.16	.22	.23	.22
Stock clerks and store keepers	.63	.50	.29	.55	.45	.26	.88	.66	.32
Telephone operators	.09	.06	.06	.08	.06	.06	.19	.12	.06
Weighers	.21	.20	.15	.12	.12	.09	.33	.29	.18
Misc clerical workers	.46	.49	.59	.40	.42	.48	.36	.37	.42
Crafts and kindred workers	13.05	14.46	16.52	10.89	12.62	13.81	13.64	15.56	19.79
Construction crafts workers	.89	.93	1.07	.30	.32	.37	1.44	1.46	1.59
Carpenters and apprentices	.23	.24	.23	.06	.06	.07	.40	.44	.54
Brick,stonemasons, apprentices	.01	.01	.01	.00	.00	.00	.02	.02	.00
Bulldozer operators	.01	.01	.02	.01	.00	.00	.01	.01	.02
Electricians and apprentices	.45	.50	.64	.17	.20	.25	.65	.67	.74
Excavating,grading mach operatr	.00	.01	.01	.00	.00	.00	.00	.00	.00
Floor layers, exc tile setters	.01	.01	.00	.01	.01	.00	.00	.00	.00
Painters and apprentices	.07	.06	.03	.03	.02	.01	.18	.15	.09
Plumbers,pipefitters,aprentices	.11	.10	.12	.03	.03	.03	.18	.17	.21
Blue collar worker supervisors	4.44	5.00	5.67	3.73	4.25	4.55	4.98	5.67	6.80
Metalworkg craft wrkrs,exc mech	.85	.93	1.19	.54	.52	.35	1.10	1.42	2.71
Boilermakers	.00	.00	.01	.01	.01	.01	.00	.00	.00
Machinists and apprentices	.71	.79	1.01	.52	.50	.33	.90	1.22	2.52
Millwrights	.08	.09	.11	.01	.01	.01	.15	.15	.13
Pattern and mcldmakers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.03	.02	.03	.00	.00	.00	.03	.02	.02
Tool and diemakers, apprentices	.01	.02	.03	.00	.00	.00	.04	.03	.05
Mechanics,repairers,installers	5.90	6.56	7.39	5.62	6.87	7.98	3.12	3.59	4.11
Air cond, heating, refrig mech	.09	.12	.13	.01	.02	.03	.02	.03	.03
Auto mechanics and apprentices	.06	.05	.03	.00	.00	.00	.10	.08	.03
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Farm implement mechanics	.01	.02	.02	.02	.03	.04	.03	.02	.01
Heavy equip mech, incl diesel	3.77	4.64	5.90	5.30	6.53	7.58	2.59	3.11	3.76
Household appliance mechanics	.01	.01	.01	.01	.01	.01	.00	.00	.00
Loom fixers	1.76	1.54	1.19	.22	.22	.26	.28	.25	.20
Other mechanics and apprentices	.20	.18	.10	.07	.07	.06	.10	.10	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Textile mill products			Knitting mills			Dyeing, finishing textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Printing trade crafts workers	.41	.50	.67	.24	.29	.42	2.46	2.95	4.20
Compositors and typesetters	.34	.42	.60	.20	.27	.41	2.10	2.57	3.73
Engravers exc photoengravers	.03	.02	.02	.00	.00	.00	.15	.10	.02
Press,plate printers,apprentices	.05	.06	.05	.03	.03	.01	.21	.29	.45
Transport,public util craft wkrs	.02	.02	.02	.01	.01	.01	.01	.01	.01
Power station operators	.01	.01	.02	.00	.00	.00	.00	.00	.00
Telephone installers,repairers	.01	.01	.00	.01	.01	.01	.01	.01	.01
Other crafts, kindred workers	.55	.51	.51	.45	.36	.14	.52	.45	.38
Carpet installers	.05	.07	.09	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.04	.04	.08	.00	.00	.00	.00	.00	.00
Inspectors, other	.03	.04	.06	.02	.03	.03	.01	.01	.02
Stationary engineers	.13	.11	.08	.04	.02	.01	.29	.27	.29
Tailors	.20	.19	.15	.36	.28	.10	.19	.14	.05
Upholsterers	.07	.04	.04	.00	.00	.00	.00	.00	.00
Other crafts workers	.02	.02	.01	.01	.01	.01	.03	.03	.02
Operatives	64.08	61.67	58.90	70.69	67.69	66.08	59.84	57.79	54.26
Operatives,except transport	62.60	59.92	56.26	70.13	67.05	65.06	57.66	55.29	51.47
Semiskilled metalworking	.34	.29	.31	.13	.12	.15	.37	.31	.30
Drill press operatives	.01	.01	.01	.01	.01	.01	.00	.00	.00
Grinding machine operatives	.01	.01	.00	.00	.00	.00	.03	.02	.01
Lathe,milling mach operatives	.06	.04	.02	.00	.00	.00	.05	.03	.01
Metal platers	.01	.01	.01	.00	.00	.00	.04	.03	.01
Other precision mach operators	.11	.08	.05	.07	.05	.05	.05	.03	.01
Punch,stamping press operatives	.02	.02	.01	.01	.01	.01	.04	.03	.01
Solderers	.01	.01	.00	.00	.00	.00	.04	.03	.01
Welders and flamecutters	.11	.13	.20	.03	.05	.09	.11	.14	.26
Semiskilled textile operatives	41.45	38.83	29.42	33.66	31.68	22.50	33.08	30.34	21.91
Carding,lapping combing oprs	1.72	1.40	.61	.21	.16	.05	.20	.16	.07
Knitters,loopers, and toppers	3.35	3.06	2.24	11.73	10.12	5.84	.30	.31	.27
Spinners, twisters, winders	13.51	12.83	10.13	2.01	2.20	1.67	7.08	7.25	7.99
Weavers	4.62	4.10	2.50	.38	.42	.26	.82	.87	.74
Other textile operatives	18.25	17.45	13.94	19.33	18.79	14.68	24.68	21.75	12.84
Semiskilled packing, inspecting	7.06	7.52	9.64	10.25	10.82	13.01	7.69	8.28	11.24
Checkers, examiners, mfg	4.68	5.09	6.45	6.84	7.26	8.37	5.15	5.67	7.72
Graders and scrsters, mfg	.38	.34	.20	.18	.16	.09	.24	.25	.33
Packer,wrapper,exc meat,prodce	2.00	2.09	2.99	3.23	3.40	4.55	2.30	2.35	3.19
Other operatives, exc transport	13.75	13.28	16.89	26.10	24.43	29.40	16.52	16.37	18.02
Assemblers	.22	.27	.42	.19	.26	.48	.21	.26	.42
Bottling,canning operatives	.01	.01	.01	.00	.00	.00	.01	.01	.01
Clothing ironers and pressers	.27	.22	.17	.80	.62	.40	.05	.03	.01
Cutting operatives, other	1.47	1.57	1.76	2.33	2.47	2.48	.78	.78	.74
Drillers, earth	.00	.01	.01	.00	.00	.00	.00	.00	.00
Dyers	2.33	2.48	2.75	1.49	1.60	1.82	11.60	11.99	13.60
Filer,polisher,sander,buffer	.04	.03	.01	.02	.01	.01	.03	.02	.01
Laundry,dry cleang oprs,other	.05	.04	.03	.04	.04	.02	.08	.07	.04
Meat cutters and butchers	.02	.01	.00	.05	.03	.00	.00	.00	.00
Mixing operatives	.26	.27	.25	.06	.06	.07	.77	.74	.61
Oilers,greasers,exc automobiles	.28	.25	.17	.04	.04	.03	.14	.13	.10
Painters, mfg articles	.11	.09	.07	.02	.02	.01	.19	.15	.11
Photographic process workers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Riveters and fasteners	.03	.03	.02	.01	.01	.01	.01	.01	.01
Sawyers	.03	.04	.06	.04	.05	.08	.00	.00	.00
Sewers and stitchers	8.16	7.61	10.85	20.79	19.03	23.75	1.76	1.49	1.58
Shoemaking machine operatives	.01	.01	.01	.02	.02	.01	.03	.02	.01
Furnace tendr,stokr,exc metal	.26	.18	.19	.18	.14	.21	.72	.54	.74
Winding operatives, other	.19	.17	.10	.03	.03	.02	.14	.12	.05
Transport equipment operatives	1.48	1.75	2.65	.56	.64	1.02	2.18	2.51	2.79
Bus drivers	.02	.03	.01	.00	.00	.00	.19	.33	.18
Delivery and route workers	.09	.10	.17	.09	.09	.14	.16	.16	.29
Fork lift,tow motor operatives	.68	.84	1.02	.14	.17	.17	1.03	1.22	1.35
Rail vehicle cperators, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.04	.04	.04	.02	.01	.01	.10	.11	.11
Truck drivers	.65	.74	1.40	.31	.37	.71	.70	.69	.86
Service workers	2.24	2.02	1.45	1.50	1.41	1.13	2.45	2.04	1.04
Cleaning service workers	1.56	1.36	.77	.97	.85	.46	1.68	1.34	.54
Bldg interior cleaners, other	.44	.40	.22	.17	.15	.06	.43	.37	.16
Janitors and sextons	1.13	.96	.55	.80	.70	.40	1.26	.97	.38

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Textile mill products			Knitting mills			Dyeing, finishing textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.07	.06	.06	.07	.07	.09	.06	.05	.03
Cooks,exc private households	.03	.02	.03	.04	.03	.05	.04	.03	.02
Dishwashers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.01	.01	.01	.01	.01	.02	.00	.00	.00
Waiters	.02	.01	.01	.01	.01	.01	.00	.00	.00
Other food serv wkrs,exc privt	.02	.01	.01	.01	.01	.01	.02	.02	.01
Health service workers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.02	.00	.00	.00	.00	.00	.00
Personal service workers	.08	.08	.08	.02	.03	.05	.03	.02	.01
Elevator operators	.07	.07	.06	.01	.02	.04	.03	.02	.01
Housekeepers, exc private homes	.01	.01	.01	.01	.01	.01	.00	.00	.00
Protective service workers	.52	.52	.51	.43	.46	.52	.68	.63	.46
Guards	.52	.52	.51	.43	.46	.52	.68	.63	.46
Laborers, except farm	4.80	4.47	3.56	3.21	3.14	2.44	4.49	4.05	2.93
Carpenter helpers	.02	.02	.04	.00	.00	.00	.00	.00	.00
Constr labr,exc carpenter helpr	.07	.05	.03	.02	.01	.01	.09	.07	.03
Freight and material handlers	2.28	2.20	2.08	1.22	1.23	1.25	2.45	2.34	2.10
Gardenrs,groundkeepers,exc farm	.04	.04	.04	.00	.00	.00	.00	.00	.00
Stock handlers	.72	.70	.40	1.34	1.31	.68	.61	.54	.21
Teamsters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Vehicle washers,equip cleaners	.70	.60	.24	.15	.13	.05	.53	.43	.14
Warehouse labcrers, other	.13	.13	.15	.09	.11	.19	.16	.14	.10
Other laborers	.82	.70	.55	.39	.34	.27	.66	.53	.35

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Floor coverings			Yarn and fabric mills			Misc textile mills		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	3.64	3.96	3.55	3.26	3.76	4.12	4.29	4.71	5.38
Engineers, technical	.58	.54	.40	.59	.60	.65	.78	.77	.96
Chemical	.03	.03	.02	.03	.03	.04	.07	.05	.01
Civil	.03	.01	.01	.02	.02	.03	.00	.00	.00
Electrical	.00	.00	.00	.02	.02	.03	.00	.00	.00
Industrial	.36	.34	.21	.32	.34	.31	.28	.28	.24
Mechanical	.10	.10	.13	.13	.12	.15	.24	.27	.50
Sales	.00	.00	.00	.01	.01	.01	.02	.01	.00
Other engineers	.06	.05	.04	.07	.06	.08	.18	.17	.21
Life and physical scientists	.17	.16	.15	.15	.17	.20	.30	.30	.33
Chemists	.14	.13	.11	.15	.16	.20	.30	.30	.33
Physicists and astronomers	.00	.00	.02	.00	.00	.00	.00	.00	.00
Other life, physical scientists	.03	.03	.02	.00	.00	.00	.00	.00	.00
Engineering, science technicians	.77	.81	.87	.94	1.08	1.41	1.42	1.57	2.12
Chemical technicians	.05	.05	.05	.06	.06	.04	.07	.07	.06
Drafters	.05	.04	.04	.07	.07	.12	.16	.17	.32
Electrical and electronic	.00	.00	.00	.01	.01	.03	.01	.01	.01
Industrial engineering	.06	.07	.06	.06	.09	.14	.05	.06	.04
Mechanical engineering	.00	.00	.00	.01	.02	.03	.04	.04	.04
Other engineering, science tech	.61	.65	.72	.74	.83	1.06	1.10	1.22	1.64
Medical workers, exc technicians	.00	.00	.00	.05	.05	.06	.07	.08	.13
Registered nurses	.00	.00	.00	.05	.05	.06	.07	.08	.13
Technicians, except health	.01	.01	.02	.03	.05	.08	.03	.06	.11
Airplane pilots	.00	.00	.00	.01	.02	.05	.00	.00	.00
Other technicians except health	.01	.01	.02	.02	.03	.03	.03	.06	.11
Computer specialists	.38	.47	.39	.16	.22	.23	.20	.26	.29
Computer programers	.26	.30	.26	.11	.13	.14	.14	.16	.15
Computer systems analysts	.12	.17	.13	.05	.07	.07	.06	.10	.14
Other computer specialists	.00	.00	.00	.01	.02	.02	.00	.00	.00
Social scientists	.00	.00	.00	.02	.04	.04	.00	.00	.00
Economists	.00	.00	.00	.02	.04	.04	.00	.00	.00
Teachers	.07	.06	.01	.09	.09	.03	.02	.02	.01
Adult education	.07	.06	.01	.09	.09	.03	.02	.02	.01
Writers, artists, entertainers	.44	.46	.29	.33	.41	.41	.25	.28	.19
Designers	.34	.35	.22	.26	.31	.29	.18	.18	.09
Editors and reporters	.01	.01	.01	.01	.01	.02	.00	.00	.00
Painters and sculptors	.03	.03	.02	.03	.04	.04	.05	.06	.03
Public relations specialists	.06	.07	.05	.03	.03	.04	.03	.05	.07
Other writers, artists, entertain	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other professional and technical	1.22	1.45	1.43	.90	1.06	1.01	1.22	1.37	1.24
Accountants	.71	.86	.96	.38	.46	.51	.62	.72	.75
Lawyers	.00	.00	.00	.01	.03	.02	.00	.00	.00
Operations and systems research	.18	.24	.20	.10	.14	.14	.21	.29	.29
Personnel, labor relations wks	.28	.30	.26	.32	.36	.31	.34	.33	.20
Other research workers	.06	.04	.01	.07	.05	.02	.06	.03	.01
Recreation workers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Managers, officials, proprietors	4.75	5.60	5.77	2.97	3.77	4.71	5.36	6.43	7.10
Buyers, sales, loan managers	.96	.88	.86	.49	.47	.52	.98	.97	1.13
Bank, financial managers	.13	.14	.14	.07	.07	.05	.10	.11	.13
Credit managers	.14	.08	.07	.04	.02	.03	.02	.01	.00
Purchasing agents, buyers, other	.26	.23	.24	.18	.17	.17	.38	.33	.32
Sales manager, exc retail trade	.43	.43	.41	.20	.22	.27	.48	.52	.67
Other managers, officials, proprts	3.78	4.72	4.91	2.48	3.30	4.20	4.38	5.46	5.97
Mgrs, superintendents, building	.00	.00	.00	.00	.00	.00	.01	.01	.01
Office managers, other	.24	.24	.26	.18	.20	.26	.24	.26	.36
Restaurant, cafe, bar, managers	.03	.02	.01	.01	.01	.01	.01	.01	.01
Other managers, administrators	3.52	4.45	4.65	2.30	3.09	3.93	4.12	5.18	5.59

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Floor coverings			Yarn and fabric mills			Misc textile mills		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	2.54	2.88	4.15	.92	.99	1.20	1.59	1.68	1.94
Advertising agents,sales worker	.00	.00	.00	.00	.00	.00	.02	.03	.06
Other sales wrkrs	2.54	2.88	4.15	.92	.99	1.20	1.58	1.65	1.88
Clerical workers	13.36	13.23	13.47	7.33	7.51	8.60	10.31	9.99	11.15
Stenographers,typists,secretaries	3.51	3.58	4.54	1.95	2.08	2.91	2.81	2.86	3.84
Legal secretaries	.03	.02	.01	.01	.01	.02	.00	.00	.00
Other secretaries	2.46	2.68	3.66	1.50	1.69	2.53	2.06	2.19	3.01
Stenographers	.06	.03	.00	.03	.01	.01	.06	.03	.00
Typists	.96	.85	.87	.42	.36	.35	.69	.64	.82
Office machine operators	1.24	1.44	.92	.51	.55	.40	.63	.54	.36
Bookkeeping and billing	.06	.02	.01	.03	.02	.01	.03	.01	.00
Calculating	.02	.01	.01	.02	.01	.01	.02	.01	.01
Computer and peripheral equip	.41	.89	.70	.12	.26	.23	.04	.09	.08
Duplicating	.00	.00	.00	.01	.01	.02	.02	.01	.01
Keypunch	.71	.49	.19	.29	.22	.12	.40	.30	.20
Tabulating	.03	.01	.00	.01	.00	.00	.02	.01	.00
Other office machine operators	.02	.02	.02	.03	.03	.02	.11	.11	.07
Other clerical workers	8.61	8.22	8.01	4.88	4.87	5.29	6.87	6.59	6.95
Billing clerks	.25	.26	.33	.18	.20	.29	.30	.32	.45
Bookkeepers	1.23	1.32	1.71	.66	.68	.81	1.03	.99	.94
Cashiers	.03	.03	.06	.03	.04	.05	.03	.03	.01
Clerical supervisors, other	.15	.17	.17	.08	.09	.09	.10	.12	.13
Counter clerks,exc food	.64	.64	.63	.13	.14	.15	.17	.18	.25
Dispatchers,starters,vehicle	.01	.01	.01	.01	.01	.01	.01	.01	.01
Estimators,investigators,other	.31	.32	.18	.07	.08	.07	.12	.13	.09
Expeditors,prduction controlrs	.40	.37	.25	.37	.38	.41	.47	.44	.35
File clerks	.23	.20	.23	.14	.12	.15	.08	.05	.03
Mail handlers,exc post office	.13	.12	.11	.07	.06	.06	.06	.06	.07
Messengers and office helpers	.00	.00	.00	.03	.03	.01	.02	.02	.01
Payroll,timekeeping clerks	.29	.26	.10	.42	.47	.47	.46	.51	.52
Receptionists	.24	.19	.10	.11	.10	.07	.20	.17	.09
Shipping and receiving clerks	2.21	2.10	2.46	1.08	1.04	1.27	1.83	1.79	2.41
Statistical clerks	.33	.34	.28	.21	.24	.26	.20	.23	.29
Stock clerks and store keepers	.58	.41	.16	.60	.49	.33	.78	.60	.31
Telephone operators	.15	.09	.05	.07	.05	.06	.12	.05	.01
Weighers	.48	.41	.23	.20	.20	.17	.17	.16	.11
Misc clerical workers	.96	.95	.96	.41	.45	.56	.72	.74	.89
Crafts and kindred workers	11.81	13.33	16.30	14.07	15.25	17.34	13.51	15.30	20.15
Construction crafts workers	1.12	1.24	1.74	1.03	1.08	1.30	1.10	1.11	1.27
Carpenters and apprentices	.32	.35	.44	.26	.25	.19	.33	.37	.54
Brick,stonemasons, apprentices	.05	.04	.01	.01	.01	.02	.00	.00	.00
Bulldozer operators	.04	.04	.03	.02	.02	.03	.01	.01	.02
Electricians and apprentices	.59	.70	1.10	.52	.59	.82	.50	.51	.58
Excavating,grading mach operatr	.00	.00	.00	.01	.01	.02	.00	.00	.00
Floor layers, exc tile setters	.01	.01	.00	.02	.01	.00	.00	.00	.00
Painters and apprentices	.03	.02	.01	.07	.06	.05	.07	.05	.01
Plumbers,pipefitters,aprentices	.09	.09	.15	.12	.12	.16	.20	.17	.12
Blue collar worker supervisors	4.63	5.36	6.65	4.51	5.02	5.59	5.51	6.38	8.41
Metalworkg craft wrkrs,exc meca	1.18	1.37	2.26	.84	.93	1.28	1.43	1.42	1.37
Boilermakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.99	1.22	2.12	.68	.76	1.02	1.10	1.05	.84
Millwrights	.07	.09	.12	.08	.09	.13	.23	.27	.35
Pattern and mclmakers	.07	.03	.01	.02	.02	.05	.00	.00	.00
Sheetmetal workers, apprentices	.04	.02	.01	.03	.03	.06	.04	.03	.02
Tool and diemakers, apprentices	.00	.00	.00	.01	.01	.02	.06	.07	.17
Mechanics,repairers,installers	3.55	3.89	3.93	6.94	7.47	8.26	4.47	5.33	7.62
Air cond, heating, refrig meca	.04	.06	.08	.15	.22	.25	.00	.00	.00
Auto mechanics and apprentices	.09	.07	.02	.06	.05	.04	.10	.09	.06
Farm implement mechanics	.00	.00	.00	.01	.01	.02	.00	.00	.00
Heavy equip mech, incl diesel	2.57	3.05	3.41	3.40	4.19	5.57	3.54	4.32	6.03
Household appliance mechanics	.01	.01	.01	.02	.02	.02	.00	.00	.00
Loom fixers	.69	.59	.36	3.00	2.70	2.18	.75	.85	1.48
Office machine repairers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Railroad, car shop repairers	.03	.02	.02	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.12	.10	.03	.30	.29	.17	.06	.05	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Floor coverings			Yarn and fabric mills			Misc textile mills		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Printing trade crafts workers	.15	.21	.40	.19	.22	.30	.43	.53	.80
Compositors and typesetters	.13	.18	.36	.14	.17	.26	.33	.39	.61
Engravers exc photoengravers	.00	.00	.00	.02	.03	.03	.01	.02	.02
Press,plate printers,aprentices	.03	.03	.03	.03	.03	.01	.10	.12	.17
Transport,public util craft wkrs	.00	.00	.00	.03	.03	.04	.00	.00	.00
Power station operators	.00	.00	.00	.02	.02	.04	.00	.00	.00
Other crafts, kindred workers	1.19	1.25	1.33	.53	.50	.58	.56	.54	.68
Carpet installers	.84	.94	.81	.01	.01	.02	.02	.02	.01
Crane,derrick,hoist operator	.17	.17	.35	.04	.04	.07	.07	.08	.16
Furniture and wood finishers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Inspectors, other	.05	.08	.16	.03	.04	.06	.04	.07	.14
Stationary engineers	.12	.06	.00	.14	.12	.11	.23	.17	.09
Tailors	.00	.00	.00	.17	.18	.22	.09	.12	.25
Upholsterers	.00	.00	.00	.12	.08	.09	.06	.04	.03
Other crafts workers	.00	.00	.00	.02	.02	.01	.03	.03	.01
Operatives	58.38	55.93	52.71	63.17	60.97	57.60	57.55	55.32	49.16
Operatives,except transport	53.58	50.27	44.54	61.89	59.46	55.17	54.94	52.50	45.81
Semiskilled metalworking	.54	.53	.77	.40	.33	.29	.48	.42	.48
Drill press operatives	.01	.01	.01	.02	.01	.01	.01	.01	.01
Grinding machine operatives	.02	.01	.00	.01	.01	.01	.03	.02	.02
Lathe,milling mach operatives	.10	.05	.01	.07	.05	.03	.12	.09	.09
Metal platers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other precisicn mach operators	.10	.07	.04	.14	.10	.07	.10	.06	.03
Punch,stamping press operatives	.02	.02	.01	.02	.02	.02	.06	.04	.01
Solderers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Welders and flamecutters	.29	.38	.71	.12	.13	.14	.16	.18	.32
Semiskilled textile operatives	30.43	27.17	18.73	48.24	46.05	38.70	38.09	36.00	26.22
Carding,lapping combing oprs	.39	.31	.11	2.90	2.48	1.28	1.29	.94	.25
Knitters,loopers, and toppers	.39	.42	.43	.58	.63	.67	.41	.43	.47
Spinners, twisters, winders	7.81	7.71	7.23	21.26	20.48	17.71	9.54	9.83	7.87
Weavers	4.28	3.22	1.97	7.48	6.77	4.46	3.41	3.64	3.01
Other textile operatives	17.57	15.52	8.99	16.02	15.69	14.59	23.44	21.17	14.62
Semiskilled packing, inspecting	7.30	8.08	9.41	5.55	5.77	7.17	6.03	6.31	8.52
Checkers, examiners, mfg	5.66	6.32	6.75	3.67	3.93	5.06	3.26	3.51	4.83
Graders and scrsters, mfg	.10	.08	.03	.50	.45	.27	.61	.54	.34
Packer,wrapper,exc meat,prodce	1.55	1.68	2.64	1.39	1.40	1.84	2.16	2.25	3.35
Other operatives, exc transport	15.32	14.49	15.62	7.70	7.31	9.01	10.34	9.77	10.58
Assemblers	.37	.51	.99	.14	.17	.24	.73	.71	.50
Bottling,canning operatives	.00	.00	.00	.01	.01	.02	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.12	.09	.08	.06	.04	.03
Cutting operatives, other	3.75	3.76	3.40	.76	.80	.89	2.52	2.55	2.64
Drillers, earth	.00	.00	.00	.01	.01	.02	.00	.00	.00
Dyers	2.86	3.04	3.69	1.33	1.37	1.52	1.28	1.40	2.00
Filer,polisher,sander,buffer	.00	.00	.00	.04	.03	.01	.13	.10	.05
Garage wrkr,gas station atten	.00	.00	.00	.01	.01	.01	.00	.00	.00
Laundry,dry cleang oprs,other	.21	.17	.09	.03	.02	.01	.04	.02	.01
Meat cutters and butchers	.00	.00	.00	.00	.00	.00	.06	.05	.00
Mixing operatives	.51	.49	.41	.18	.19	.21	.71	.69	.63
Oilers,greasers,exc automobiles	.08	.07	.04	.44	.39	.26	.37	.36	.41
Painters, mfg articles	.13	.11	.09	.12	.10	.08	.19	.16	.15
Photographic process workers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Riveters and fasteners	.04	.03	.02	.04	.04	.04	.03	.03	.02
Sawyers	.07	.09	.17	.03	.03	.04	.04	.04	.03
Sewers and stitchers	6.86	5.90	6.43	4.01	3.70	5.31	3.21	2.81	3.56
Shoemaking machine operatives	.00	.00	.00	.01	.01	.03	.00	.00	.00
Furnace tendr,stokr,exc metal	.38	.27	.26	.20	.12	.05	.29	.20	.24
Winding operatives, other	.06	.05	.02	.22	.20	.16	.70	.60	.31
Transport equipment operatives	4.80	5.66	8.16	1.28	1.51	2.43	2.61	2.82	3.35
Delivery and route workers	.20	.22	.39	.06	.07	.11	.15	.15	.20
Fork lift,tow motor operatives	2.86	3.36	3.60	.53	.66	.82	1.41	1.67	2.00
Rail vehicle operators, other	.00	.00	.00	.01	.01	.02	.00	.00	.00
Taxicab drivers, chauffeurs	.16	.18	.13	.02	.02	.01	.10	.11	.12
Truck drivers	1.58	1.90	4.05	.66	.76	1.47	.94	.89	1.04
Service workers	2.36	2.13	1.72	2.52	2.30	1.68	2.47	2.17	1.55
Cleaning service workers	1.48	1.20	.54	1.81	1.64	1.10	1.74	1.45	.77
Bldg interior cleaners, other	.23	.20	.09	.61	.57	.38	.35	.31	.18
Janitors and sextons	1.25	1.01	.45	1.21	1.07	.71	1.39	1.14	.59

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Floor coverings			Yarn and fabric mills			Misc textile mills		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.02	.02	.01	.08	.06	.06	.04	.03	.01
Cooks,exc private households	.00	.00	.00	.02	.02	.02	.01	.01	.00
Food counter,fountain workers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Waiters	.00	.00	.00	.02	.01	.01	.00	.00	.00
Other food serv wkrs,exc privt	.02	.02	.01	.02	.01	.01	.03	.02	.01
Health service workers	.01	.01	.04	.01	.01	.04	.02	.02	.06
Nursing aides and orderlies	.01	.01	.04	.01	.01	.04	.02	.02	.06
Personal service workers	.02	.02	.01	.13	.13	.13	.06	.07	.08
Attendants, personal serv, other	.00	.00	.00	.01	.01	.02	.02	.02	.01
Elevator operators	.02	.02	.01	.11	.11	.10	.04	.05	.07
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.00	.00	.00
Protective service workers	.83	.89	1.13	.49	.47	.36	.61	.61	.64
Guards	.83	.89	1.13	.48	.46	.34	.61	.61	.64
Police and detectives	.00	.00	.00	.01	.01	.02	.00	.00	.00
Laborers, except farm	3.16	2.94	2.34	5.77	5.45	4.75	4.93	4.41	3.58
Carpenter helpers	.05	.05	.10	.04	.04	.07	.00	.00	.00
Constr labr,exc carpenter help	.11	.08	.04	.08	.06	.04	.11	.09	.05
Freight and material handlers	1.50	1.44	1.27	2.87	2.81	2.86	2.12	2.06	2.12
Garbage collectors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.05	.04	.02	.06	.06	.07	.05	.05	.05
Timbercutting, logging workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Stock handlers	.65	.62	.32	.49	.48	.28	.40	.37	.19
Teamsters	.00	.00	.00	.03	.03	.04	.00	.00	.00
Vehicle washers,equip cleaners	.20	.17	.07	1.05	.94	.45	.65	.53	.17
Warehouse labcrers, other	.10	.11	.16	.13	.13	.14	.22	.18	.11
Other laborers	.51	.44	.37	1.01	.88	.77	1.38	1.14	.89

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and textile products			Apparel and accessories			Misc fabricated textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.02	2.39	1.98	2.00	2.40	1.98	2.19	2.34	1.94
Engineers, technical	.19	.22	.26	.17	.20	.24	.33	.32	.36
Industrial	.15	.18	.23	.14	.18	.23	.19	.20	.25
Mechanical	.02	.02	.02	.01	.01	.00	.06	.07	.08
Other engineers	.02	.02	.01	.01	.01	.00	.06	.05	.03
Life and physical scientists	.01	.01	.01	.01	.01	.01	.03	.03	.01
Chemists	.01	.01	.01	.01	.01	.01	.03	.03	.01
Engineering, science technicians	.14	.15	.16	.12	.13	.16	.28	.26	.20
Chemical technicians	.00	.01	.00	.00	.00	.00	.03	.03	.03
Drafters	.08	.07	.08	.08	.08	.09	.08	.05	.02
Electrical and electronic	.00	.00	.00	.00	.00	.00	.02	.02	.01
Industrial engineering	.02	.03	.04	.02	.03	.04	.02	.02	.03
Other engineering, science teca	.04	.05	.04	.03	.03	.03	.14	.14	.12
Medical workers, exc technicians	.01	.01	.01	.01	.01	.01	.02	.02	.05
Registered nurses	.01	.01	.01	.01	.01	.01	.02	.02	.05
Technicians, except health	.00	.00	.01	.00	.00	.00	.01	.02	.04
Other technicians except health	.00	.00	.01	.00	.00	.00	.01	.02	.04
Computer specialists	.09	.12	.10	.09	.13	.10	.08	.10	.07
Computer programers	.06	.08	.07	.07	.08	.07	.05	.06	.04
Computer systems analysts	.02	.03	.02	.02	.03	.03	.01	.02	.02
Other computer specialists	.01	.01	.01	.01	.01	.01	.01	.02	.01
Social scientists	.01	.01	.00	.01	.02	.01	.00	.00	.00
Economists	.01	.01	.00	.01	.02	.01	.00	.00	.00
Teachers	.13	.10	.03	.15	.11	.03	.01	.01	.01
Adult education	.03	.04	.01	.04	.04	.01	.01	.01	.01
Other teachers	.10	.06	.01	.11	.07	.02	.00	.00	.00
Writers, artists, entertainers	.95	1.15	.84	.99	1.22	.91	.70	.74	.47
Designers	.86	1.03	.74	.92	1.13	.81	.46	.47	.35
Editors and reporters	.01	.02	.03	.01	.02	.04	.01	.01	.01
Painters and sculptors	.04	.05	.01	.02	.02	.00	.19	.21	.07
Public relations specialists	.03	.04	.04	.03	.04	.04	.03	.04	.04
Other writers, artists, entertain	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other professional and technical	.47	.60	.56	.44	.57	.53	.73	.83	.72
Accountants	.25	.33	.36	.23	.31	.34	.39	.45	.47
Home management advisors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Lawyers	.01	.01	.00	.01	.01	.00	.01	.02	.01
Operations and systems research	.04	.06	.04	.04	.06	.04	.06	.08	.06
Personnel, labor relations wkrs	.17	.20	.15	.16	.19	.14	.24	.26	.17
Other research workers	.01	.01	.01	.01	.01	.01	.02	.01	.00
Managers, officials, proprietors	4.15	5.21	5.57	3.82	4.81	5.21	6.60	7.57	7.58
Buyers, sales, loan managers	.60	.58	.47	.58	.57	.47	.73	.66	.49
Bank, financial managers	.08	.08	.04	.08	.08	.05	.10	.08	.03
Credit managers	.05	.03	.02	.05	.03	.01	.05	.03	.02
Purchasing agents, buyers, other	.23	.21	.17	.23	.21	.16	.26	.24	.21
Sales manager, exc retail trade	.24	.26	.25	.23	.26	.25	.32	.31	.24
Other managers, officials, proprts	3.55	4.63	5.09	3.24	4.24	4.74	5.87	6.91	7.09
Office managers, other	.24	.27	.25	.21	.23	.21	.51	.53	.50
Other managers, administrators	3.31	4.35	4.83	3.02	4.00	4.52	5.36	6.38	6.58
Sales workers	2.03	2.26	2.49	1.99	2.24	2.53	2.32	2.34	2.27
Other sales workers	2.02	2.25	2.49	1.98	2.24	2.53	2.32	2.34	2.27
Clerical workers	7.98	8.29	7.86	7.65	7.99	7.54	10.46	10.05	9.65
Stenographs, typists, secretaries	1.63	1.76	1.94	1.47	1.59	1.79	2.82	2.76	2.79
Other secretaries	1.20	1.36	1.58	1.08	1.24	1.47	2.01	2.06	2.19
Stenographers	.02	.01	.00	.02	.01	.00	.02	.02	.01
Typists	.41	.39	.36	.36	.34	.31	.78	.69	.59

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and textile products			Apparel and accessories			Misc fabricated textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.52	.51	.28	.51	.52	.28	.56	.48	.25
Bookkeeping and billing	.07	.03	.01	.06	.03	.01	.09	.04	.02
Calculating	.03	.02	.01	.03	.02	.01	.04	.02	.01
Computer and peripheral equip	.08	.20	.15	.08	.20	.15	.08	.17	.15
Duplicating	.01	.01	.00	.01	.01	.00	.02	.01	.01
Key punch	.27	.21	.08	.27	.22	.09	.27	.18	.05
Other office machine operators	.05	.04	.02	.05	.04	.02	.06	.05	.02
Other clerical workers	5.83	6.01	5.64	5.66	5.88	5.47	7.07	6.80	6.61
Billing clerks	.16	.18	.21	.15	.18	.21	.21	.21	.21
Bookkeepers	1.36	1.45	1.42	1.32	1.41	1.40	1.72	1.68	1.53
Cashiers	.04	.05	.06	.05	.06	.07	.00	.00	.00
Clerical supervisors, other	.07	.08	.07	.07	.09	.07	.07	.08	.08
Collectors, bill and account	.01	.01	.00	.00	.00	.00	.01	.01	.01
Counter clerks, exc food	.18	.20	.19	.17	.18	.17	.25	.27	.28
Estimators, investigators, other	.06	.07	.04	.06	.07	.04	.08	.08	.03
Expeditors, production controls	.25	.25	.16	.23	.24	.17	.34	.30	.13
File clerks	.19	.18	.19	.18	.17	.19	.25	.22	.23
Mail handlers, exc post office	.06	.07	.05	.06	.06	.05	.08	.08	.07
Messengers and office helpers	.04	.03	.01	.03	.03	.01	.05	.05	.04
Payroll, timekeeping clerks	.47	.58	.61	.49	.62	.65	.29	.34	.34
Receptionists	.14	.13	.06	.14	.12	.06	.16	.13	.06
Shipping and receiving clerks	1.63	1.63	1.69	1.56	1.54	1.51	2.13	2.12	2.68
Statistical clerks	.12	.14	.11	.13	.15	.12	.12	.12	.08
Stock clerks and store keepers	.46	.37	.15	.45	.36	.16	.58	.39	.11
Telephone operators	.09	.07	.07	.09	.07	.07	.11	.08	.07
Weighers	.02	.02	.01	.01	.01	.01	.06	.05	.04
Misc clerical workers	.48	.52	.54	.47	.51	.52	.57	.59	.64
Crafts and kindred workers	7.03	7.82	7.87	6.64	7.22	6.99	9.88	11.32	12.82
Construction crafts workers	.17	.20	.25	.12	.13	.14	.52	.60	.83
Carpenters and apprentices	.06	.07	.10	.04	.05	.07	.19	.22	.27
Bulldozer operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Electricians and apprentices	.05	.07	.10	.03	.04	.05	.19	.24	.39
Excavating, grading mach operatr	.00	.00	.00	.00	.00	.00	.01	.01	.01
Floor layers, exc tile setters	.01	.01	.01	.01	.01	.01	.01	.01	.00
Painters and apprentices	.02	.02	.01	.02	.02	.00	.06	.06	.04
Plumbers, pipefitters, apprentices	.01	.02	.03	.01	.01	.01	.03	.04	.10
Tile setters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	2.64	3.17	3.15	2.44	2.85	2.69	4.05	5.01	5.70
Metalworkg craft wrkrs, exc meca	.25	.26	.27	.18	.16	.10	.75	.81	1.19
Job and die setters, metal	.00	.00	.00	.00	.00	.00	.02	.02	.02
Machinists and apprentices	.16	.17	.15	.14	.12	.05	.37	.46	.72
Millwrights	.01	.01	.02	.00	.00	.00	.06	.08	.12
Pattern and mcldmakers	.05	.04	.05	.03	.03	.05	.13	.10	.08
Sheetmetal workers, apprentices	.01	.01	.02	.00	.00	.00	.04	.05	.10
Tool and diemakers, apprentices	.02	.02	.02	.01	.00	.00	.12	.11	.15
Mechanics, repairers, installers	1.07	1.38	1.56	.86	1.11	1.29	2.64	2.92	3.09
Air cond, heating, refrig meca	.01	.01	.01	.01	.01	.01	.00	.00	.00
Aircraft mechanics	.01	.01	.03	.00	.00	.00	.06	.09	.21
Auto accessories installers	.01	.01	.00	.00	.00	.00	.07	.04	.00
Auto body repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.01	.01	.01	.01	.01	.01	.02	.02	.01
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.01
Heavy equip mech, incl diesel	.90	1.18	1.40	.81	1.06	1.24	1.51	1.87	2.28
Household appliance mechanics	.09	.10	.05	.00	.00	.00	.72	.66	.35
Loom fixers	.03	.03	.04	.01	.02	.02	.13	.13	.14
Radio, television repairers	.00	.00	.01	.00	.00	.00	.03	.03	.04
Other mechanics and apprentices	.02	.02	.01	.02	.02	.01	.07	.06	.03
Printing trade crafts workers	.14	.19	.26	.07	.10	.12	.59	.73	1.00
Compositors and typesetters	.09	.12	.16	.06	.08	.10	.31	.37	.48
Engravers exc photoengravers	.01	.01	.01	.00	.00	.00	.07	.07	.08
Press, plate printers, apprentices	.04	.06	.09	.01	.02	.03	.21	.28	.44
Transport, public util craft wrks	.02	.01	.00	.02	.01	.00	.02	.01	.01
Telephone installers, repairers	.01	.01	.00	.02	.01	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and textile products			Apparel and accessories			Misc fabricated textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	2.76	2.62	2.39	2.96	2.85	2.64	1.31	1.23	1.01
Carpet installers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Decorators, window dressers	.00	.01	.00	.00	.00	.00	.01	.02	.02
Furriers	.05	.05	.02	.06	.05	.02	.00	.00	.00
Inspectors, other	.02	.03	.04	.03	.03	.04	.01	.02	.05
Sign painters and letterers	.01	.01	.00	.00	.00	.00	.02	.02	.01
Stationary engineers	.03	.02	.00	.02	.02	.00	.04	.02	.01
Tailors	2.45	2.34	2.24	2.73	2.65	2.54	.42	.53	.59
Upholsterers	.05	.04	.03	.01	.00	.00	.40	.26	.18
Other crafts workers	.14	.13	.06	.10	.09	.04	.40	.35	.16
Operatives	73.70	71.05	72.16	75.03	72.55	73.83	63.99	62.24	62.89
Operatives, except transport	73.21	70.46	71.32	74.66	72.11	73.13	62.67	60.82	61.21
Semiskilled metalworking	.12	.11	.09	.07	.06	.05	.49	.40	.29
Drill press operatives	.01	.00	.00	.00	.00	.00	.03	.02	.00
Lathe, milling mach operatives	.01	.01	.00	.00	.00	.00	.05	.04	.03
Metal platers	.01	.01	.00	.00	.00	.00	.04	.03	.01
Other precision mach operators	.02	.02	.02	.02	.02	.02	.06	.04	.02
Punch, stamping press operatives	.04	.03	.01	.03	.02	.01	.14	.09	.02
Solderers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	.03	.04	.05	.01	.02	.03	.16	.17	.19
Semiskilled textile operatives	.40	.48	.56	.22	.27	.33	1.66	1.72	1.84
Carding, lapping combing oprs	.01	.01	.00	.00	.00	.00	.05	.03	.01
Knitters, loopers, and toppers	.12	.15	.19	.12	.15	.19	.12	.15	.21
Spinners, twistors, winders	.10	.14	.23	.04	.05	.08	.54	.66	1.08
Weavers	.03	.04	.04	.01	.01	.02	.23	.23	.17
Other textile operatives	.14	.14	.09	.06	.06	.04	.72	.65	.38
Semiskilled packing, inspecting	6.55	7.46	8.00	6.50	7.38	7.81	6.96	7.93	9.06
Checkers, examiners, mfg	3.89	4.54	4.43	3.95	4.59	4.43	3.43	4.22	4.41
Graders and scrters, mfg	.32	.34	.33	.33	.36	.37	.23	.21	.11
Packer, wrapper, exc meat, prodce	2.35	2.58	3.24	2.23	2.42	3.00	3.29	3.50	4.54
Other operatives, exc transport	66.14	62.42	62.68	67.87	64.40	64.95	53.56	50.77	50.01
Assemblers	.38	.53	.61	.21	.27	.34	1.57	2.07	2.11
Clothing ironers and pressers	4.36	3.30	2.87	4.85	3.77	3.35	.74	.52	.24
Cutting operatives, other	2.06	2.29	2.52	1.66	1.80	2.07	4.95	5.15	4.98
Dyers	.09	.11	.15	.05	.06	.08	.32	.38	.54
Filer, polisher, sander, buffer	.02	.02	.01	.01	.01	.01	.07	.06	.03
Garage wrkr, gas station atten	.01	.01	.01	.01	.01	.01	.03	.02	.00
Laundry, dry cleang oprs, other	.05	.04	.03	.05	.04	.03	.04	.04	.04
Meat cutters and butchers	.01	.01	.01	.00	.00	.00	.10	.09	.09
Milleners	.01	.01	.01	.01	.01	.01	.00	.00	.00
Mixing operatives	.02	.02	.01	.01	.01	.01	.08	.07	.04
Oilers, greasers, exc automobiles	.01	.01	.02	.01	.01	.02	.01	.01	.01
Painters, mfg articles	.08	.07	.04	.05	.04	.03	.26	.21	.13
Photographic process workers	.04	.04	.06	.04	.05	.07	.02	.02	.02
Riveters and fasteners	.08	.07	.04	.07	.06	.04	.15	.13	.07
Sawyers	.10	.12	.17	.09	.11	.16	.16	.18	.25
Sewers and stitchers	51.07	47.08	49.63	53.70	50.31	52.92	31.89	28.16	31.29
Shoemaking machine operatives	.01	.01	.00	.02	.01	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.22	.20	.36	.23	.21	.38	.14	.12	.24
Winding operatives, other	.05	.06	.04	.02	.02	.02	.30	.27	.15
Miscellaneous machine operatives	3.40	3.88	3.24	2.78	3.11	2.56	7.96	8.39	7.02
Other operatives, exc transport	4.08	4.52	2.84	3.99	4.46	2.86	4.77	4.88	2.78
Transport equipment operatives	.49	.58	.85	.37	.44	.70	1.32	1.42	1.69
Delivery and route workers	.11	.11	.12	.10	.09	.10	.22	.20	.21
Fork lift, tow rotor operatives	.09	.13	.14	.04	.06	.05	.45	.55	.62
Taxicab drivers, chauffeurs	.01	.02	.02	.01	.01	.01	.04	.05	.04
Truck drivers	.27	.33	.57	.22	.28	.53	.61	.62	.82
Service workers	1.23	1.12	.80	1.22	1.12	.81	1.31	1.13	.73
Cleaning service workers	.79	.69	.35	.77	.67	.36	.97	.77	.28
Bldg interior cleaners, other	.19	.17	.06	.18	.16	.06	.27	.22	.07
Janitors and sextons	.60	.52	.29	.58	.51	.31	.70	.55	.21
Food service workers	.07	.06	.07	.08	.07	.08	.02	.02	.02
Waiters' assistants	.01	.01	.02	.01	.01	.02	.00	.00	.00
Cooks, exc private households	.03	.02	.03	.03	.03	.04	.01	.01	.01
Food counter, fountain workers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Waiters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other food serv wkrs, exc privt	.02	.01	.01	.02	.01	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and textile products			Apparel and accessories			Misc fabricated textiles		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Health service workers	.01	.01	.04	.01	.01	.03	.01	.02	.08
Nursing aides and orderlies	.01	.01	.04	.01	.01	.03	.01	.02	.08
Personal service workers	.10	.08	.03	.11	.09	.04	.03	.02	.01
Attendants, personal serv, other	.06	.04	.01	.07	.05	.01	.00	.00	.00
Elevator operators	.03	.03	.01	.03	.03	.01	.03	.02	.01
Housekeepers, exc private homes	.01	.01	.02	.01	.01	.02	.00	.00	.00
Protective service workers	.26	.29	.31	.25	.29	.30	.28	.30	.34
Guards	.26	.29	.31	.25	.29	.30	.28	.30	.34
Laborers, except farm	1.86	1.88	1.27	1.67	1.68	1.12	3.27	3.03	2.12
Carpenter helpers	.01	.01	.02	.01	.01	.02	.00	.00	.00
Constr labr, exc carpenter helpr	.01	.01	.02	.01	.01	.02	.01	.01	.01
Freight and material handlers	.70	.73	.66	.61	.64	.56	1.33	1.30	1.18
Gardenrs, groundkeepers, exc farm	.01	.01	.01	.01	.01	.01	.00	.00	.00
Stock handlers	.89	.86	.35	.86	.84	.34	1.09	.99	.38
Vehicle washers, equip cleaners	.03	.03	.01	.02	.02	.01	.11	.09	.03
Warehouse labcrers, other	.08	.09	.12	.07	.08	.11	.14	.15	.20
Other laborers	.15	.14	.10	.09	.08	.05	.59	.49	.33

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Paper and allied products			Pulp, paper, paperboard mills			Paperboard containers, boxes		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	6.23	6.66	6.52	8.40	9.00	9.78	3.88	4.20	3.86
Engineers, technical	1.30	1.20	1.18	1.72	1.60	1.68	.80	.73	.66
Chemical	.18	.18	.21	.30	.30	.32	.08	.09	.13
Civil	.06	.05	.06	.11	.09	.13	.02	.02	.02
Electrical	.12	.12	.13	.18	.18	.21	.04	.04	.05
Industrial	.36	.35	.25	.38	.35	.22	.28	.27	.22
Mechanical	.28	.27	.31	.38	.37	.43	.16	.14	.12
Sales	.03	.02	.01	.02	.02	.02	.03	.02	.02
Other engineers	.27	.23	.20	.34	.30	.36	.18	.15	.11
Life and physical scientists	.30	.29	.25	.46	.47	.48	.05	.05	.04
Biological	.01	.01	.02	.02	.03	.05	.00	.00	.00
Chemists	.29	.28	.24	.45	.44	.43	.05	.05	.04
Mathematical specialists	.03	.02	.02	.04	.03	.02	.01	.01	.00
Statisticians	.03	.02	.02	.04	.03	.02	.01	.01	.00
Engineering, science technicians	1.66	1.72	1.89	2.94	3.17	3.99	.43	.41	.39
Chemical technicians	.14	.12	.07	.25	.22	.11	.04	.04	.03
Drafters	.18	.16	.20	.22	.19	.23	.14	.12	.13
Electrical and electronic	.03	.03	.02	.04	.04	.04	.02	.02	.01
Industrial engineering	.06	.08	.09	.06	.09	.14	.04	.05	.04
Mechanical engineering	.02	.02	.02	.03	.03	.02	.01	.01	.01
Surveyors	.01	.01	.01	.03	.03	.04	.00	.00	.00
Other engineering, science technicians	1.20	1.29	1.48	2.30	2.56	3.41	.18	.18	.17
Medical workers, exc technicians	.07	.07	.09	.11	.12	.17	.03	.02	.01
Physicians and osteopaths	.01	.01	.06	.01	.02	.08	.00	.00	.00
Registered nurses	.07	.05	.03	.10	.10	.09	.03	.02	.01
Health technologists, technicians	.01	.01	.00	.01	.01	.01	.00	.00	.00
Technicians, except health	.05	.07	.09	.09	.12	.16	.03	.04	.07
Airplane pilots	.03	.03	.04	.04	.06	.08	.02	.02	.04
Other technicians except health	.03	.04	.04	.05	.06	.08	.01	.01	.03
Computer specialists	.24	.31	.31	.32	.41	.44	.11	.14	.15
Computer programmers	.15	.17	.17	.20	.23	.27	.08	.09	.08
Computer systems analysts	.08	.12	.12	.11	.16	.16	.03	.05	.07
Other computer specialists	.01	.02	.01	.01	.02	.01	.00	.00	.00
Social scientists	.12	.17	.13	.12	.17	.13	.08	.12	.09
Economists	.12	.17	.13	.12	.17	.13	.08	.12	.09
Teachers	.02	.02	.00	.02	.02	.01	.01	.01	.01
Adult education	.02	.02	.00	.02	.02	.01	.01	.01	.01
Writers, artists, entertainers	.53	.65	.64	.29	.36	.38	.74	.87	.79
Designers	.24	.30	.34	.08	.11	.13	.47	.55	.53
Editors and reporters	.02	.03	.04	.03	.04	.08	.00	.00	.00
Painters and sculptors	.17	.21	.14	.06	.08	.05	.19	.24	.18
Photographers	.02	.03	.05	.01	.01	.01	.02	.02	.03
Public relations specialists	.06	.07	.06	.08	.10	.09	.03	.04	.03
Other writers, artists, entertainers	.02	.02	.02	.02	.02	.03	.02	.03	.02
Other professional and technical	1.91	2.13	1.91	2.29	2.53	2.32	1.59	1.81	1.66
Accountants	.96	1.09	1.09	1.01	1.16	1.20	.88	.99	.99
Architects	.00	.00	.00	.00	.00	.00	.01	.01	.00
Foresters and conservationists	.21	.19	.16	.48	.47	.42	.03	.03	.07
Lawyers	.04	.08	.09	.06	.12	.13	.02	.04	.04
Operations and systems research	.22	.29	.24	.17	.23	.18	.26	.34	.27
Personnel, labor relations workers	.38	.39	.30	.38	.40	.29	.36	.37	.27
Other research workers	.10	.08	.04	.18	.15	.11	.04	.03	.01
Vocation, education counselors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Managers, officials, proprietors	5.76	6.82	8.10	4.63	5.44	6.48	6.26	7.38	8.79
Buyers, sales, loan managers	1.35	1.26	1.21	1.14	1.05	1.04	1.39	1.28	1.16
Bank, financial managers	.13	.11	.06	.12	.10	.05	.14	.13	.07
Credit managers	.06	.03	.03	.04	.03	.03	.06	.03	.01
Purchasing agents, buyers, other	.44	.39	.42	.48	.42	.44	.33	.30	.34
Sales manager, exc retail trade	.73	.73	.69	.50	.50	.52	.86	.83	.73

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Paper and allied products			Pulp, paper, paperboard mills			Paperboard containers, boxes		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers, officials, proprts	4.41	5.56	6.90	3.49	4.39	5.44	4.87	6.10	7.64
Office managers, other	.25	.25	.27	.17	.17	.17	.33	.32	.33
Other managers, administrators	4.15	5.29	6.62	3.31	4.21	5.26	4.53	5.76	7.30
Sales workers	2.59	2.76	3.76	1.45	1.53	2.04	3.37	3.49	4.58
Advertising agents, sales worker	.01	.02	.04	.02	.03	.05	.01	.01	.01
Other sales wrkrs	2.58	2.74	3.72	1.43	1.50	2.00	3.36	3.48	4.57
Clerical workers	12.21	11.79	12.25	11.30	11.08	11.66	11.69	10.96	10.85
Stenographs, typists, secretaries	3.49	3.47	4.35	3.36	3.32	4.12	3.13	3.08	3.89
Legal secretaries	.02	.01	.02	.02	.01	.01	.02	.02	.01
Other secretaries	2.60	2.71	3.56	2.61	2.71	3.57	2.35	2.42	3.21
Stenographers	.09	.05	.02	.12	.07	.04	.05	.03	.02
Typists	.79	.70	.76	.62	.52	.50	.71	.61	.65
Office machine operators	.84	.84	.48	.87	.97	.62	.53	.46	.25
Bookkeeping and billing	.06	.03	.01	.04	.01	.00	.06	.03	.01
Calculating	.03	.02	.01	.02	.01	.01	.04	.02	.00
Computer and peripheral equip	.19	.39	.29	.26	.54	.42	.09	.18	.14
Duplicating	.03	.03	.02	.03	.02	.02	.04	.03	.02
Keypunch	.38	.26	.10	.42	.30	.13	.26	.17	.05
Tabulating	.03	.01	.00	.01	.01	.00	.02	.01	.00
Other office machine operators	.11	.10	.05	.09	.08	.03	.03	.03	.02
Other clerical workers	7.88	7.49	7.43	7.07	6.79	6.92	8.03	7.43	6.71
Billing clerks	.33	.35	.43	.21	.21	.26	.44	.44	.53
Bookkeepers	1.16	1.17	1.21	.91	.92	.83	1.36	1.34	1.32
Cashiers	.04	.04	.06	.05	.06	.09	.03	.03	.04
Clerical supervisors, other	.15	.16	.14	.16	.17	.15	.16	.17	.13
Counter clerks, exc food	.27	.26	.24	.20	.20	.20	.29	.27	.22
Dispatchers, starters, vehicle	.03	.03	.04	.02	.02	.04	.06	.06	.06
Estimators, investigators, other	.29	.29	.16	.17	.17	.16	.46	.46	.20
Expeditors, production controls	.59	.61	.73	.54	.57	.68	.60	.55	.43
File clerks	.20	.18	.22	.15	.14	.17	.17	.14	.17
Mail handlers, exc post office	.13	.12	.09	.14	.13	.10	.09	.07	.04
Messengers and office helpers	.03	.03	.03	.03	.03	.03	.02	.02	.03
Payroll, timekeeping clerks	.45	.48	.47	.39	.41	.35	.55	.58	.56
Receptionists	.27	.22	.11	.15	.12	.07	.34	.26	.11
Shipping and receiving clerks	1.56	1.46	1.74	1.24	1.17	1.49	1.57	1.37	1.37
Statistical clerks	.29	.29	.22	.38	.39	.32	.15	.15	.12
Stock clerks and store keepers	.87	.70	.49	.91	.78	.73	.68	.55	.42
Telephone operators	.19	.12	.08	.18	.12	.11	.21	.13	.09
Weighers	.18	.16	.09	.37	.33	.22	.05	.04	.03
Misc clerical workers	.86	.84	.90	.87	.85	.92	.81	.78	.84
Crafts and kindred workers	18.17	19.31	22.03	19.98	20.91	24.78	16.51	17.95	20.67
Construction crafts workers	2.32	2.17	2.28	4.22	4.13	4.81	.89	.92	1.19
Carpenters and apprentices	.29	.28	.24	.49	.49	.47	.17	.18	.21
Brick, stonemasons, apprentices	.04	.03	.02	.08	.07	.06	.00	.00	.00
Bulldozer operators	.19	.15	.13	.35	.30	.28	.05	.05	.08
Electricians and apprentices	.99	.99	1.12	1.72	1.81	2.21	.45	.48	.63
Excavating, grading mach operatr	.05	.03	.01	.09	.06	.02	.01	.01	.00
Painters and apprentices	.12	.09	.04	.19	.15	.08	.07	.05	.02
Plumbers, pipefitters, apprentices	.63	.58	.72	1.27	1.23	1.68	.13	.14	.25
Structural metal craft workers	.01	.01	.00	.02	.01	.00	.00	.00	.00
Blue collar worker supervisors	4.92	5.36	6.26	4.98	5.40	6.16	4.93	5.39	6.45
Metalworkg craft wrkrs, exc mech	2.69	2.87	3.91	3.62	3.97	5.70	1.97	2.07	3.03
Blacksmiths	.01	.01	.00	.02	.01	.00	.00	.00	.00
Boilermakers	.05	.04	.05	.10	.10	.15	.00	.00	.00
Forge and hammer operators	.01	.01	.03	.02	.02	.04	.00	.00	.00
Job and die setters, metal	.09	.07	.05	.02	.02	.03	.15	.11	.06
Machinists and apprentices	1.22	1.43	2.23	1.26	1.54	2.77	1.13	1.30	2.08
Millwrights	1.00	1.02	1.11	1.99	2.08	2.43	.17	.19	.24
Pattern and moldmakers	.02	.02	.02	.02	.01	.01	.01	.01	.01
Rollers and finishers, metal	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sheetmetal workers, apprentices	.07	.07	.09	.13	.12	.13	.01	.01	.01
Tool and diemakers, apprentices	.23	.21	.34	.06	.07	.12	.50	.45	.63

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Paper and allied products			Pulp, paper, paperboard mills			Paperboard containers, boxes		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	4.43	5.04	5.84	4.05	4.50	5.17	4.14	4.61	5.11
Air cond, heating, refriy meca	.02	.04	.05	.03	.04	.06	.01	.02	.03
Aircraft mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.13	.09	.04	.17	.12	.06	.15	.11	.05
Data processing mach repairers	.02	.03	.04	.00	.00	.00	.00	.00	.00
Farm implement mechanics	.01	.01	.01	.01	.01	.01	.01	.01	.01
Heavy equip mech, incl diesel	3.83	4.52	5.48	3.10	3.64	4.58	3.85	4.38	4.96
Household appliance mechanics	.02	.02	.01	.04	.04	.03	.01	.01	.01
Office machine repairers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Radio, television repairers	.02	.02	.04	.03	.03	.07	.00	.00	.00
Railroad, car shop repairers	.01	.01	.00	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.35	.30	.15	.65	.59	.36	.12	.09	.04
Printing trade crafts workers	2.59	2.85	2.87	.81	.87	.92	4.14	4.61	4.63
Bookbinders	.05	.05	.08	.02	.02	.06	.01	.01	.00
Compositors and typesetters	.87	.87	.57	.36	.34	.24	1.06	.99	.57
Engravers exc photoengravers	.05	.05	.03	.03	.03	.03	.02	.02	.01
Photoengravers, lithographers	.05	.06	.10	.02	.02	.04	.09	.10	.15
Press, plate printers, apprentices	1.56	1.83	2.08	.39	.45	.54	2.95	3.49	3.91
Transport, public util craft wkrs	.11	.11	.11	.21	.23	.29	.01	.01	.02
Elec pwr line instaler, repairer	.00	.00	.00	.01	.01	.01	.00	.00	.00
Locomotive engineers	.01	.01	.02	.02	.03	.06	.00	.00	.00
Power station operators	.08	.08	.08	.17	.18	.22	.01	.01	.01
Telephone installers, repairers	.02	.02	.01	.02	.02	.01	.01	.01	.01
Other crafts, kindred workers	1.12	.90	.76	2.10	1.80	1.74	.43	.34	.24
Cabinetmakers	.01	.01	.01	.02	.02	.04	.00	.00	.00
Crane, derrick, hoist operator	.40	.32	.35	.82	.69	.80	.10	.07	.05
Inspectors, lcg and lumber	.07	.06	.03	.18	.15	.08	.00	.00	.00
Inspectors, other	.03	.03	.03	.03	.03	.03	.03	.04	.07
Sign painters and letterers	.01	.01	.00	.01	.01	.00	.02	.01	.00
Stationary engineers	.52	.42	.32	.95	.82	.76	.22	.17	.11
Other crafts workers	.08	.06	.02	.09	.07	.02	.06	.04	.01
Operatives	47.15	46.00	42.73	44.96	44.09	39.59	50.84	49.56	46.48
Operatives, except transport	42.28	40.91	36.23	39.89	38.65	32.71	44.70	43.00	37.71
Semiskilled metalworking	.96	.81	.71	1.26	1.17	1.28	.67	.51	.42
Drill press operatives	.05	.03	.01	.06	.04	.02	.04	.02	.00
Furnace tendrs, smeltrs, pourers	.02	.02	.03	.05	.05	.08	.00	.00	.00
Grinding machine operatives	.07	.05	.02	.10	.07	.03	.03	.02	.00
Lathe, milling mach operatives	.11	.07	.03	.12	.07	.04	.11	.07	.03
Metal platers	.01	.01	.00	.01	.01	.01	.01	.01	.00
Other precision mach operators	.03	.02	.01	.02	.01	.00	.03	.02	.02
Punch, stamping press operatives	.22	.15	.06	.10	.07	.02	.28	.20	.07
Welders and flamecutters	.44	.46	.56	.80	.84	1.09	.16	.18	.29
Semiskilled textile operatives	.03	.03	.04	.07	.08	.12	.00	.00	.00
Spinners, twisters, winders	.03	.03	.04	.07	.08	.12	.00	.00	.00
Semiskilled packing, inspecting	8.05	8.14	10.08	5.57	5.54	5.46	8.84	8.74	11.33
Checkers, examiners, mfg	2.43	2.57	3.40	1.99	2.06	2.67	2.43	2.61	3.71
Graders and scrtrs, mfy	.40	.36	.26	.65	.56	.33	.15	.15	.16
Packer, wrapper, exc meat, prodce	5.22	5.21	6.42	2.94	2.92	2.46	6.26	5.99	7.47

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Paper and allied products			Pulp, paper, paperboard mills			Paperboard containers, boxes		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	33.24	31.93	25.41	32.99	31.87	25.86	35.19	33.74	25.95
Asbestos,insulation workers	.02	.03	.03	.04	.07	.10	.01	.01	.00
Assemblers	1.23	1.46	2.30	.45	.57	1.08	1.99	2.07	2.33
Bottling,canning operatives	.03	.03	.05	.02	.02	.04	.05	.05	.06
Clothing ironers and pressers	.01	.01	.00	.01	.01	.00	.02	.01	.00
Cutting operatives, other	3.88	3.65	2.92	3.42	3.25	2.73	4.23	3.89	2.93
Drillers, earth	.01	.01	.00	.02	.01	.01	.00	.00	.00
Dyers	.11	.11	.13	.15	.16	.21	.07	.06	.02
Filer,polisher,sander,buffer	.05	.04	.01	.06	.05	.03	.03	.02	.00
Garage wrkr,gas station atten	.01	.01	.01	.00	.00	.00	.01	.01	.01
Mixing operatives	.39	.36	.24	.43	.40	.30	.12	.10	.05
Oilers,greasers,exc automobiles	.38	.38	.43	.67	.68	.82	.13	.13	.16
Painters, mfg articles	.29	.21	.13	.40	.30	.20	.19	.14	.09
Photographic process workers	.04	.04	.05	.03	.03	.03	.04	.04	.06
Riveters and fasteners	.14	.12	.10	.04	.04	.03	.27	.25	.20
Sawyers	.31	.32	.41	.34	.35	.43	.46	.50	.72
Sewers and stitchers	.44	.37	.34	.15	.12	.10	.37	.30	.27
Shoemaking machine operatives	.01	.00	.00	.01	.01	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	.65	.44	.49	1.20	.88	1.16	.28	.20	.27
Winding operatives, other	1.15	.93	.42	1.82	1.48	.66	.35	.30	.18
Miscellaneous machine operatives	18.95	18.45	14.46	19.08	18.79	14.93	20.36	19.83	15.55
Other operatives,exc transport	5.16	4.97	2.90	4.66	4.65	3.03	6.22	5.84	3.05
Transport equipment operatives	4.87	5.10	6.49	5.07	5.44	6.87	6.14	6.56	8.77
Boat operators	.00	.00	.00	.01	.01	.00	.00	.00	.00
Delivery and route workers	.30	.29	.46	.16	.16	.26	.52	.49	.72
Fork lift,tow motor operatives	2.57	2.81	2.83	2.69	2.99	2.97	3.02	3.34	3.36
Rail vehicle operators, other	.01	.01	.01	.02	.02	.04	.00	.00	.00
Railroad brake operators	.01	.01	.02	.02	.03	.06	.00	.00	.00
Railroad switch operators	.01	.01	.01	.03	.03	.04	.00	.00	.00
Taxicab drivers, chauffeurs	.07	.07	.04	.05	.05	.02	.12	.11	.07
Truck drivers	1.89	1.90	3.11	2.07	2.14	3.49	2.47	2.61	4.62
Service workers	2.19	1.77	.99	2.75	2.26	1.31	1.73	1.46	1.02
Cleaning service workers	1.54	1.20	.53	1.84	1.48	.71	1.30	1.03	.50
Bldg interior cleaners, other	.20	.16	.07	.22	.18	.08	.19	.16	.08
Janitors and sextons	1.35	1.04	.46	1.62	1.30	.63	1.11	.87	.43
Food service wrkrs	.11	.09	.10	.15	.11	.07	.09	.09	.15
Cooks,exc private households	.06	.04	.03	.09	.06	.03	.03	.03	.04
Dishwashers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Food counter,fountain workers	.02	.02	.03	.01	.01	.02	.02	.03	.06
Waiters	.01	.01	.02	.02	.01	.01	.01	.01	.04
Other food serv wrks,exc privt	.02	.02	.01	.03	.02	.01	.02	.01	.01
Health service workers	.01	.01	.03	.01	.02	.07	.00	.00	.00
Nursing aides and orderlies	.01	.01	.03	.01	.02	.07	.00	.00	.00
Personal service workers	.05	.03	.02	.07	.05	.02	.02	.02	.02
Attendants,personal serv,other	.01	.01	.00	.03	.02	.01	.00	.00	.00
Elevator operators	.02	.02	.01	.03	.02	.01	.02	.02	.01
Housekeepers, exc private homes	.01	.01	.01	.01	.01	.01	.01	.01	.01
Protective service workers	.48	.43	.32	.68	.61	.45	.32	.32	.35
Firefighters	.02	.02	.01	.03	.03	.02	.01	.01	.01
Guards	.46	.41	.31	.63	.58	.43	.31	.31	.34
Police and detectives	.01	.00	.00	.01	.01	.00	.00	.00	.00
Laborers, except farm	5.70	4.89	3.62	6.52	5.69	4.37	5.73	5.00	3.76
Carpenter helpers	.05	.04	.04	.09	.07	.07	.00	.00	.00
Constr labr,exc carpenter helper	.21	.16	.08	.33	.27	.16	.16	.12	.06
Freight and material handlers	3.22	2.86	2.36	3.24	2.99	2.67	3.87	3.43	2.74
Gardenrs,groundkeepers,exc farm	.08	.07	.06	.11	.11	.09	.03	.03	.03
Timbercutting, logging workers	.06	.04	.02	.13	.11	.05	.00	.00	.00
Stock handlers	.53	.46	.17	.35	.30	.10	.51	.45	.18
Teamsters	.03	.03	.03	.02	.02	.02	.03	.02	.03
Vehicle washers,equip cleaners	.27	.20	.06	.41	.33	.11	.19	.16	.07
Warehouse labcrs, other	.22	.21	.25	.16	.13	.09	.24	.23	.26
Other laborers	1.05	.81	.55	1.68	1.37	1.01	.69	.56	.41

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc paper and pulp			Printing and publishing			Newspaper publishing, printing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	5.68	6.20	6.05	12.87	14.77	16.44	17.48	19.82	21.00
Engineers, technical	1.26	1.19	1.21	.20	.19	.18	.06	.06	.08
Chemical	.12	.13	.18	.01	.01	.02	.00	.00	.00
Civil	.02	.02	.03	.00	.00	.01	.00	.00	.00
Electrical	.11	.12	.15	.03	.03	.04	.03	.03	.04
Industrial	.42	.41	.31	.08	.08	.05	.01	.01	.00
Mechanical	.28	.28	.39	.04	.04	.07	.02	.02	.04
Sales	.03	.02	.00	.01	.00	.00	.00	.00	.00
Other engineers	.27	.21	.15	.03	.02	.01	.01	.00	.00
Life and physical scientists	.34	.32	.25	.02	.02	.02	.00	.00	.00
Chemists	.34	.32	.25	.02	.02	.01	.00	.00	.00
Mathematical specialists	.03	.03	.04	.04	.03	.02	.03	.02	.01
Actuaries	.01	.01	.01	.00	.00	.00	.00	.00	.00
Statisticians	.02	.02	.03	.03	.03	.02	.03	.02	.01
Engineering, science technicians	1.16	1.24	1.39	.25	.23	.25	.07	.07	.07
Chemical technicians	.09	.09	.08	.00	.00	.01	.01	.01	.02
Drafters	.17	.16	.24	.14	.12	.17	.01	.01	.01
Electrical and electronic	.05	.04	.01	.04	.03	.01	.04	.04	.02
Industrial engineering	.09	.11	.09	.02	.02	.01	.00	.00	.00
Mechanical engineering	.03	.03	.02	.00	.00	.00	.00	.00	.00
Other engineering, science teca	.73	.82	.95	.06	.06	.05	.01	.02	.02
Medical workers, exc technicians	.07	.06	.10	.02	.02	.02	.01	.01	.02
Physicians and osteopaths	.01	.02	.09	.00	.00	.00	.00	.00	.00
Registered nurses	.06	.04	.01	.02	.02	.02	.01	.01	.02
Health technolcigists, technicians	.00	.00	.00	.01	.01	.00	.01	.01	.00
Therapy assistants	.00	.00	.00	.01	.01	.00	.01	.01	.00
Technicians, except health	.03	.03	.04	.01	.02	.02	.01	.01	.02
Airplane pilots	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.02	.02	.03	.01	.01	.02	.01	.01	.02
Computer specialists	.26	.34	.34	.27	.38	.52	.13	.15	.14
Computer programers	.14	.17	.17	.19	.25	.34	.11	.12	.12
Computer systems analysts	.09	.13	.15	.07	.12	.18	.03	.03	.02
Other computer specialists	.03	.05	.03	.01	.01	.00	.00	.00	.00
Social scientists	.15	.22	.18	.09	.13	.10	.04	.07	.08
Economists	.15	.22	.18	.08	.12	.10	.04	.06	.08
Teachers	.01	.01	.00	.01	.01	.01	.01	.01	.00
Adult education	.01	.01	.00	.01	.01	.01	.00	.00	.00
Writers, artists, entertainers	.66	.79	.75	10.72	12.42	14.13	16.47	18.75	20.01
Authors	.00	.00	.00	.17	.22	.28	.05	.05	.02
Designers	.22	.29	.35	.28	.35	.42	.11	.15	.23
Editors and reporters	.03	.03	.04	7.41	8.58	10.24	14.05	16.07	17.32
Musicians and compcers	.00	.00	.00	.03	.02	.01	.01	.01	.00
Painters and sculptors	.30	.35	.19	1.32	1.65	1.23	.80	.97	.64
Photographers	.05	.05	.10	1.12	1.12	1.54	1.18	1.16	1.46
Public relations specialists	.06	.07	.07	.23	.30	.30	.22	.28	.27
Radio and tv announcers	.00	.00	.00	.00	.01	.01	.01	.01	.03
Other writers, artists, entertain	.00	.00	.00	.16	.18	.11	.05	.06	.04
Other professional and technical	1.73	1.97	1.77	1.24	1.33	1.19	.64	.64	.57
Accountants	.97	1.10	1.09	.65	.73	.76	.34	.35	.36
Religious workers, except clergy	.00	.00	.00	.01	.01	.02	.00	.00	.00
Foresters and conservationists	.02	.02	.00	.00	.00	.00	.00	.00	.00
Lawyers	.03	.08	.09	.04	.06	.04	.02	.02	.00
Librarians	.00	.00	.00	.05	.03	.01	.06	.04	.01
Operations and systems research	.22	.30	.25	.12	.15	.12	.02	.03	.03
Personnel, labor relations wkrs	.39	.41	.33	.22	.24	.20	.13	.15	.15
Other research workers	.07	.05	.01	.12	.07	.02	.05	.03	.01
Vocation, education counselors	.01	.00	.00	.03	.03	.01	.01	.01	.01
Managers, officials, proprietors	6.91	7.95	8.98	8.67	9.75	9.89	7.48	7.94	7.57

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc paper and pulp			Printing and publishing			Newspaper publishing, printing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Buyers,sales,loan managers	1.63	1.50	1.42	1.81	1.71	1.54	2.56	2.57	2.45
Bank,financial managers	.12	.10	.06	.11	.09	.04	.06	.05	.04
Credit managers	.08	.05	.05	.06	.03	.03	.07	.03	.01
Purchasing agents,buyers,other	.51	.45	.49	.22	.17	.11	.06	.05	.03
Sales manager, exc retail trade	.92	.90	.83	1.42	1.42	1.36	2.38	2.44	2.37
Other managers,officials,properts	5.27	6.45	7.55	6.87	8.04	8.35	4.92	5.37	5.12
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.01	.01	.01
Office managers, other	.31	.29	.30	.44	.43	.44	.33	.33	.36
Other managers, administrators	4.97	6.15	7.25	6.41	7.60	7.89	4.58	5.03	4.75
Sales workers	3.43	3.55	4.57	10.01	9.74	11.76	18.23	17.05	20.02
Advertising agents,sales worker	.01	.02	.05	1.56	2.16	2.81	3.20	4.37	5.36
Newspaper carriers and vendors	.00	.00	.00	4.86	4.02	4.90	13.33	10.89	12.33
Other sales wrkrs	3.42	3.53	4.51	3.59	3.56	4.05	1.71	1.79	2.33
Clerical workers	14.22	13.47	14.22	22.63	21.26	20.74	24.51	23.83	22.72
Stenographs,typists,secretaries	4.13	4.04	5.03	6.66	6.21	7.19	5.07	4.67	5.18
Legal secretaries	.02	.02	.03	.01	.01	.01	.01	.01	.02
Other secretaries	2.89	2.99	3.88	3.69	3.72	4.71	2.32	2.33	2.83
Stenographers	.08	.03	.00	.13	.07	.02	.17	.09	.03
Typists	1.14	1.00	1.11	2.83	2.41	2.45	2.58	2.24	2.30
Office machine operators	1.15	1.05	.57	1.44	1.33	.71	.89	.93	.58
Bookkeeping and billing	.10	.04	.01	.12	.04	.01	.06	.02	.01
Calculating	.04	.02	.00	.04	.02	.01	.03	.01	.01
Computer and peripheral equip	.20	.41	.32	.26	.54	.41	.19	.39	.30
Duplicating	.04	.03	.02	.09	.06	.02	.02	.01	.02
Keypunch	.47	.32	.11	.52	.34	.11	.22	.15	.05
Tabulating	.07	.02	.00	.03	.01	.01	.01	.00	.01
Other office machine operators	.25	.21	.10	.38	.32	.15	.38	.34	.19
Other clerical workers	8.94	8.39	8.62	14.54	13.73	12.84	18.54	18.23	16.96
Billing clerks	.40	.41	.49	.27	.27	.30	.16	.16	.19
Bookkeepers	1.32	1.31	1.46	2.38	2.22	2.29	2.21	2.06	1.77
Cashiers	.03	.04	.05	.12	.13	.15	.18	.19	.22
Clerical supervisors, other	.14	.15	.13	.19	.19	.14	.12	.13	.09
Collectors, bill and account	.01	.01	.00	.09	.07	.04	.19	.16	.09
Counter clerks,exc food	.35	.33	.30	.93	.92	.94	1.80	1.79	1.85
Dispatchers,starters,vehicle	.01	.01	.01	.03	.03	.04	.07	.07	.09
Enumerators and interviewers	.00	.00	.00	.08	.06	.05	.00	.00	.00
Estimators,investigators,other	.26	.26	.13	.44	.42	.17	.20	.21	.12
Expeditors, prduction controls	.64	.73	1.08	.45	.38	.22	.26	.25	.20
File clerks	.31	.27	.32	.64	.48	.40	.37	.19	.03
Library attendants, assistants	.00	.00	.00	.07	.05	.01	.09	.08	.02
Mail handlers,exc post office	.18	.16	.13	1.34	1.18	.85	2.08	1.87	1.39
Messengers and office helpers	.03	.03	.02	.44	.39	.25	.63	.59	.42
Payroll,timekeeping clerks	.42	.46	.48	.24	.27	.29	.15	.17	.17
Proofreaders	.00	.00	.00	2.33	2.57	3.28	6.47	7.05	8.29
Receptionists	.36	.29	.14	.44	.34	.16	.44	.36	.19
Shipping and receiving clerks	2.03	1.90	2.33	.96	.86	.94	.10	.10	.12
Statistical clerks	.30	.30	.24	.42	.43	.32	.23	.24	.22
Stock clerks and store keepers	1.02	.73	.32	.36	.30	.25	.07	.05	.03
Telephone operators	.17	.10	.06	.32	.21	.20	.54	.36	.34
Weighers	.06	.05	.03	.02	.02	.02	.01	.01	.03
Misc clerical workers	.90	.88	.92	2.00	1.94	1.56	2.17	2.15	1.12
Crafts and kindred workers	17.37	18.69	20.77	30.49	30.27	29.15	22.92	22.51	20.45
Construction crafts workers	1.10	1.01	.97	.38	.38	.46	.32	.33	.43
Carpenters and apprentices	.14	.12	.05	.07	.07	.08	.05	.06	.07
Brick,stonemasons, apprentices	.01	.01	.00	.01	.01	.01	.01	.02	.02
Bulldozer operators	.10	.08	.04	.01	.01	.01	.00	.00	.00
Electricians and apprentices	.50	.51	.57	.17	.18	.24	.17	.18	.25
Excavating,grading mach operatr	.02	.01	.00	.00	.00	.00	.00	.00	.00
Painters and apprentices	.08	.06	.03	.08	.07	.07	.05	.04	.02
Plumbers,pipefitters,aprentices	.24	.22	.28	.04	.03	.04	.03	.03	.04
Structural metal craft workers	.00	.00	.00	.01	.01	.01	.01	.01	.03
Blue collar worker supervisors	4.84	5.29	6.17	2.65	2.97	3.74	1.92	2.15	2.68

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc paper and pulp			Printing and publishing			Newspaper publishing, printing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Metalworkg craft wkrs,exc meca	2.11	2.32	3.09	.34	.37	.57	.23	.27	.45
Boilermakers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Forge and hamrer operators	.01	.02	.04	.03	.04	.06	.00	.00	.00
Job and die setters, metal	.11	.08	.05	.01	.01	.01	.00	.00	.00
Machinists and apprentices	1.27	1.43	1.85	.22	.24	.38	.22	.26	.44
Millwrights	.48	.54	.72	.01	.02	.02	.01	.01	.01
Pattern and moldmakers	.03	.03	.04	.02	.02	.03	.00	.00	.00
Sheetmetal workers, apprentices	.05	.06	.12	.02	.02	.03	.00	.00	.00
Tool and diemakers, apprentices	.14	.14	.26	.03	.03	.05	.00	.00	.00
Mechanics,repairers,installers	5.35	6.11	7.20	1.03	1.16	1.42	.98	1.15	1.61
Air cond, heating, refrig meca	.03	.04	.06	.01	.02	.03	.01	.02	.02
Auto mechanics and apprentices	.05	.03	.01	.06	.05	.03	.13	.10	.06
Data processing mach repairers	.08	.10	.12	.01	.01	.02	.01	.01	.03
Farm implement mechanics	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	4.93	5.72	6.85	.89	1.03	1.28	.80	.98	1.44
Office machine repairers	.05	.03	.06	.02	.02	.03	.01	.01	.02
Radio, television repairers	.03	.03	.05	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.17	.14	.04	.03	.03	.02	.02	.02	.03
Printing trade crafts workers	3.48	3.55	2.98	25.36	24.85	22.64	18.84	18.12	14.98
Bookbinders	.14	.12	.18	2.51	1.93	2.20	.06	.04	.02
Compositors and typesetters	1.44	1.40	.90	11.05	10.56	7.55	12.63	12.22	8.76
Electrotypers and stereotypers	.00	.00	.00	.55	.14	.06	1.10	.29	.11
Engravers exc photoengravers	.12	.10	.05	.19	.17	.13	.04	.04	.03
Photoengravers, lithographers	.06	.07	.11	2.37	2.54	3.56	.84	.95	1.60
Press,plate printers,aprentices	1.72	1.87	1.75	8.69	9.50	9.15	4.18	4.59	4.46
Transport,public util craft wkrs	.05	.05	.03	.05	.04	.04	.09	.09	.07
Elec pwr line instaler,repairer	.00	.00	.00	.01	.01	.01	.01	.01	.01
Power station operators	.02	.02	.01	.00	.00	.00	.00	.00	.00
Telephone installers,repairers	.03	.02	.02	.03	.03	.03	.07	.07	.06
Telephone line instalr,splicers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts, kindred workers	.44	.37	.35	.69	.50	.29	.53	.40	.24
Bakers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Crane,derrick,hoist operator	.12	.11	.21	.03	.03	.04	.01	.01	.00
Inspectors, other	.02	.02	.01	.01	.01	.01	.01	.00	.00
Sign painters and letterers	.00	.00	.00	.02	.02	.02	.01	.00	.00
Stationary engineers	.22	.17	.11	.06	.05	.02	.06	.05	.03
Other crafts workers	.08	.06	.02	.55	.38	.18	.45	.34	.20
Operatives	46.12	44.86	42.00	12.21	11.55	10.25	6.48	6.37	6.43
Operatives,except transport	43.07	41.60	38.13	10.54	9.99	8.39	4.16	4.26	4.13
Semiskilled metalworking	.84	.65	.47	.24	.18	.11	.13	.11	.11
Drill press operatives	.06	.04	.02	.02	.01	.00	.00	.00	.00
Furnace tendrs,smeltrs,pourers	.00	.00	.00	.02	.02	.03	.04	.05	.08
Grinding machine operatives	.07	.04	.02	.01	.01	.00	.00	.00	.00
Lathe,milling mach operatives	.11	.06	.02	.02	.01	.01	.00	.00	.00
Metal platers	.02	.02	.00	.03	.02	.01	.01	.01	.01
Other precision mach operators	.03	.02	.00	.01	.01	.00	.00	.00	.00
Punch,stamping press operatives	.32	.22	.09	.12	.08	.02	.07	.04	.01
Welders and flamecutters	.24	.25	.33	.02	.03	.04	.01	.01	.01
Semiskilled packing, inspecting	10.93	10.70	13.23	2.01	1.96	2.37	.34	.34	.41
Checkers, examiners, mfg	3.13	3.15	3.80	.77	.77	.91	.07	.07	.08
Graders and scrters, mfg	.32	.30	.28	.12	.12	.16	.08	.09	.12
Packer,wrapper,exc meat,prodc	7.49	7.24	9.15	1.12	1.07	1.30	.19	.18	.21

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc paper and pulp			Printing and publishing			Newspaper publishing, printing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	31.29	30.25	24.43	8.29	7.85	5.92	3.69	3.82	3.61
Assemblers	1.54	1.94	3.44	.39	.44	.63	.10	.12	.18
Bottling,canning operatives	.03	.03	.04	.00	.00	.00	.00	.00	.00
Cutting operatives, other	4.17	3.91	3.10	.88	.78	.50	.08	.08	.06
Dyers	.09	.10	.16	.00	.01	.01	.00	.00	.00
Filer,polisher,sander,buffer	.05	.04	.00	.01	.01	.01	.00	.00	.00
Garage wrkr,gas station atten	.01	.01	.01	.01	.00	.00	.01	.01	.01
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.01	.00	.00	.00
Mixing operatives	.64	.57	.37	.06	.05	.04	.01	.01	.03
Oilers,greasers,exc automobiles	.24	.25	.31	.02	.02	.01	.01	.01	.00
Painters, mfy articles	.22	.17	.11	.07	.06	.05	.02	.02	.03
Photographic process workers	.05	.05	.07	.73	.81	1.12	.48	.58	.93
Riveters and fasteners	.12	.11	.06	.04	.03	.02	.01	.01	.00
Sawyers	.10	.09	.06	.01	.01	.01	.00	.00	.00
Sewers and stitchers	.95	.74	.63	.21	.16	.11	.01	.01	.01
Furnace tendr,stkpr,exc metal	.24	.14	.08	.02	.02	.03	.01	.00	.00
Winding operatives, other	1.07	.88	.42	.04	.03	.01	.02	.01	.00
Miscellaneous machine operatives	17.09	16.69	12.94	3.08	2.91	2.04	1.53	1.54	1.38
Other operatives,exc transport	4.65	4.51	2.63	2.71	2.53	1.35	1.42	1.43	.98
Transport equipment operatives	3.05	3.26	3.87	1.66	1.56	1.85	2.32	2.10	2.30
Delivery and route workers	.25	.25	.40	.80	.71	.83	1.36	1.22	1.41
Fork lift,tow motor operatives	1.83	2.07	2.17	.21	.23	.20	.05	.06	.05
Parking attendants	.00	.00	.00	.00	.01	.01	.01	.01	.03
Taxicab drivers, chauffeurs	.04	.04	.03	.04	.03	.01	.04	.03	.01
Truck drivers	.93	.91	1.27	.61	.59	.80	.86	.79	.81
Service workers	1.87	1.47	.65	1.34	1.08	.62	1.38	1.11	.64
Cleaning service workers	1.38	1.04	.40	1.01	.79	.35	1.04	.81	.35
Bldg interior cleaners, other	.18	.15	.07	.19	.16	.07	.19	.14	.05
Janitors and sextons	1.21	.89	.33	.81	.63	.28	.86	.67	.30
Food service wrkrs	.08	.07	.07	.09	.08	.08	.10	.09	.11
Cooks,exc private households	.03	.03	.03	.03	.02	.03	.03	.02	.03
Dishwashers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Food counter,fountain workers	.02	.02	.02	.02	.02	.03	.02	.02	.05
Waiters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other food serv wrks,exc privt	.02	.01	.01	.02	.02	.01	.03	.02	.02
Health service workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.03	.02	.01	.05	.04	.02	.06	.04	.02
Attendants,personal serv,other	.00	.00	.00	.02	.01	.01	.02	.02	.01
Elevator operators	.03	.02	.01	.04	.02	.01	.03	.02	.01
Protective service workers	.38	.32	.17	.19	.18	.17	.18	.17	.15
Guards	.38	.32	.17	.18	.18	.17	.17	.17	.15
Laborers, except farm	4.40	3.83	2.77	1.78	1.57	1.16	1.53	1.38	1.19
Carpenter helpers	.03	.03	.04	.00	.00	.00	.00	.00	.00
Constr labr,exc carpenter helpr	.08	.06	.02	.01	.01	.01	.00	.00	.00
Freight and material handlers	2.41	2.15	1.70	.98	.88	.72	1.07	1.00	.94
Garbage collectors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.08	.08	.05	.02	.02	.02	.01	.01	.01
Timbercutting, logging workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stock handlers	.83	.68	.22	.37	.32	.15	.05	.04	.01
Teamsters	.04	.04	.03	.00	.00	.00	.00	.00	.00
Vehicle washers,equip cleaners	.14	.10	.02	.12	.10	.04	.09	.07	.03
Warehouse labcrers, other	.29	.29	.40	.10	.10	.13	.02	.02	.03
Other laborers	.49	.39	.26	.19	.15	.10	.29	.23	.17

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other printg, exc newspapers			Chemical and allied products			Industrial chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	10.28	11.88	13.46	18.47	19.32	19.06	23.45	23.85	24.65
Engineers, technical	.27	.26	.25	3.99	3.69	4.01	6.54	6.09	6.57
Chemical	.01	.01	.02	2.25	2.16	2.44	4.03	3.88	4.20
Civil	.01	.01	.01	.13	.09	.09	.22	.16	.18
Electrical	.03	.03	.04	.29	.25	.29	.58	.51	.55
Industrial	.12	.11	.08	.49	.47	.46	.53	.51	.52
Mechanical	.05	.05	.08	.55	.48	.50	.79	.71	.76
Metallurgical	.00	.00	.00	.02	.02	.02	.05	.05	.05
Mining	.00	.00	.00	.00	.00	.00	.01	.01	.01
Petroleum	.00	.00	.00	.00	.00	.00	.01	.01	.01
Sales	.01	.01	.01	.08	.06	.06	.10	.08	.09
Other engineers	.05	.04	.02	.19	.15	.16	.21	.17	.19
Life and physical scientists	.04	.03	.03	3.64	3.85	3.58	4.30	4.23	4.22
Agricultural	.00	.00	.00	.03	.04	.02	.02	.03	.04
Atmospheric and space	.00	.00	.00	.00	.00	.00	.01	.01	.01
Biological	.00	.01	.02	.31	.57	.53	.15	.21	.15
Chemists	.03	.03	.01	3.16	3.11	2.92	3.81	3.69	3.78
Physicists and astronomers	.00	.00	.00	.11	.10	.09	.28	.26	.22
Other life, physical scientists	.00	.00	.00	.02	.02	.01	.04	.03	.02
Mathematical specialists	.04	.03	.02	.07	.07	.06	.08	.08	.09
Actuaries	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mathematicians	.00	.00	.00	.02	.02	.01	.03	.03	.02
Statisticians	.04	.03	.02	.05	.05	.05	.05	.05	.06
Engineering, science technicians	.35	.32	.36	6.28	6.44	7.08	7.69	7.97	9.44
Agricultural, biol, exc health	.00	.00	.00	.60	.70	.65	.03	.04	.06
Chemical technicians	.00	.00	.00	3.89	3.97	4.33	5.30	5.65	6.38
Drafters	.21	.19	.27	.38	.31	.38	.63	.52	.59
Electrical and electronic	.04	.03	.01	.10	.11	.13	.17	.19	.22
Industrial engineering	.02	.02	.01	.15	.19	.23	.12	.17	.24
Mechanical engineering	.00	.00	.00	.02	.02	.03	.03	.03	.04
Surveyors	.00	.00	.00	.01	.00	.00	.01	.01	.01
Other engineering, science tech	.09	.08	.07	1.15	1.13	1.31	1.40	1.36	1.90
Medical workers, exc technicians	.03	.02	.02	.25	.30	.31	.14	.13	.14
Pharmacists	.00	.00	.00	.08	.11	.15	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.04	.05	.07	.03	.03	.06
Registered nurses	.02	.02	.02	.10	.09	.07	.11	.10	.08
Veterinarians	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other medical and health tech	.00	.00	.00	.00	.03	.01	.00	.00	.00
Health technologists, technicians	.01	.01	.00	.09	.12	.08	.08	.12	.11
Clinical lab technologists, tech	.00	.00	.00	.04	.05	.05	.02	.03	.05
Other health technicians	.00	.00	.00	.04	.07	.04	.06	.10	.07
Technicians, except health	.02	.02	.02	.07	.09	.10	.10	.13	.16
Airplane pilots	.00	.00	.00	.02	.03	.03	.04	.06	.07
Other technicians except health	.01	.02	.02	.04	.05	.07	.05	.07	.09
Computer specialists	.35	.51	.77	.51	.67	.60	.63	.78	.64
Computer programers	.24	.32	.48	.31	.36	.33	.41	.46	.39
Computer systems analysts	.09	.17	.28	.17	.25	.22	.18	.26	.20
Other computer specialists	.02	.02	.01	.03	.06	.05	.04	.07	.05
Social scientists	.11	.16	.12	.27	.41	.38	.30	.46	.39
Economists	.10	.15	.12	.27	.41	.38	.30	.46	.39
Teachers	.01	.01	.01	.03	.03	.02	.02	.02	.02
Adult education	.01	.01	.01	.03	.03	.02	.02	.02	.02
Writers, artists, entertainers	7.50	8.78	10.28	.47	.58	.54	.38	.44	.40
Authors	.24	.32	.45	.02	.02	.02	.03	.03	.04
Designers	.38	.47	.54	.11	.13	.13	.10	.12	.10
Editors and reporters	3.70	4.28	5.60	.08	.09	.10	.05	.04	.02
Musicians and composers	.03	.02	.02	.00	.00	.00	.00	.00	.00
Painters and sculptors	1.61	2.04	1.61	.07	.10	.09	.03	.05	.07
Photographers	1.08	1.10	1.59	.02	.02	.01	.03	.02	.01
Public relations specialists	.24	.31	.32	.13	.17	.15	.10	.12	.10
Other writers, artists, entertain	.21	.24	.15	.05	.06	.05	.04	.06	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other printg, exc newspapers			Chemical and allied products			Industrial chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.57	1.72	1.59	2.80	3.06	2.29	3.18	3.40	2.46
Accountants	.82	.95	1.02	1.24	1.35	1.08	1.46	1.55	1.13
Architects	.01	.01	.01	.01	.01	.01	.02	.02	.02
Religious workers, except clergy	.01	.02	.04	.00	.00	.00	.00	.00	.00
Lawyers	.05	.08	.06	.14	.27	.20	.16	.27	.14
Librarians	.04	.03	.01	.05	.05	.03	.07	.07	.06
Operations and systems research	.17	.22	.18	.27	.38	.33	.28	.41	.39
Personnel, labor relations wkrs	.27	.29	.24	.56	.56	.34	.64	.62	.36
Other research workers	.16	.10	.02	.52	.45	.29	.53	.46	.38
Vocation, education counselors	.04	.03	.02	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	9.34	10.79	11.40	7.88	9.03	9.65	6.85	7.96	8.88
Buyers, sales, loan managers	1.38	1.22	.94	1.83	1.81	2.03	1.61	1.61	1.99
Bank, financial managers	.13	.11	.05	.18	.18	.15	.21	.20	.18
Credit managers	.06	.04	.04	.12	.07	.05	.08	.04	.04
Purchasing agents, buyers, other	.31	.24	.17	.57	.51	.54	.64	.58	.71
Sales manager, exc retail trade	.88	.83	.69	.96	1.05	1.28	.70	.78	1.06
Other managers, officials, proprts	7.96	9.57	10.46	6.05	7.22	7.62	5.24	6.35	6.89
Mgrs, superintendents, building	.01	.01	.01	.01	.01	.02	.02	.02	.03
Office managers, other	.50	.49	.50	.33	.35	.40	.31	.34	.43
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.01	.01	.01
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other managers, administrators	7.44	9.07	9.94	5.69	6.85	7.19	4.90	5.98	6.41
Sales workers	5.40	5.54	6.35	4.23	4.58	5.29	2.22	2.29	2.46
Advertising agents, sales worker	.65	.89	1.14	.02	.03	.04	.01	.01	.01
Newspaper carriers and vendors	.11	.08	.04	.00	.00	.00	.00	.00	.00
Other sales workers	4.64	4.57	5.17	4.21	4.55	5.26	2.21	2.27	2.45
Clerical workers	21.58	19.78	19.44	14.95	14.56	14.45	13.07	12.66	12.64
Stenographers, typists, secretaries	7.55	7.10	8.50	5.56	5.39	5.72	4.88	4.54	4.85
Legal secretaries	.01	.01	.01	.04	.03	.04	.03	.03	.05
Medical secretaries	.00	.00	.00	.04	.03	.03	.01	.01	.01
Other secretaries	4.46	4.52	5.94	4.19	4.31	4.78	3.66	3.62	4.09
Stenographers	.11	.05	.01	.19	.09	.03	.23	.09	.01
Typists	2.97	2.51	2.54	1.11	.94	.83	.96	.79	.68
Office machine operators	1.74	1.55	.80	1.03	1.16	.81	.89	1.02	.74
Bookkeeping and billing	.15	.05	.01	.06	.03	.03	.05	.02	.01
Calculating	.05	.03	.01	.04	.03	.02	.02	.02	.02
Computer and peripheral equip	.30	.62	.49	.30	.63	.50	.30	.59	.47
Duplicating	.13	.08	.02	.04	.03	.04	.03	.03	.05
Keypunch	.68	.45	.14	.52	.39	.19	.44	.32	.15
Tabulating	.05	.01	.01	.02	.01	.00	.02	.01	.00
Other office machine operators	.38	.31	.13	.05	.05	.03	.04	.04	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other printg, exc newspapers			Chemical and allied products			Industrial chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	12.29	11.14	10.14	8.36	8.01	7.92	7.30	7.10	7.06
Billing clerks	.34	.33	.37	.21	.22	.25	.13	.13	.13
Bookkeepers	2.47	2.31	2.63	1.48	1.41	1.31	1.10	1.01	.84
Cashiers	.08	.09	.11	.07	.08	.10	.06	.07	.12
Clerical supervisors, other	.22	.23	.17	.22	.25	.27	.21	.24	.27
Collectors, bill and account	.03	.02	.01	.01	.01	.01	.01	.02	.03
Counter clerks,exc food	.44	.41	.35	.28	.29	.33	.22	.24	.32
Dispatchers,starters,vehicle	.01	.01	.01	.02	.03	.04	.04	.04	.06
Enumerators and interviewers	.12	.10	.09	.00	.00	.00	.00	.00	.00
Estimators,investigators,other	.58	.54	.20	.21	.24	.20	.21	.25	.25
Expeditors,prdction controlrs	.55	.46	.23	.58	.62	.76	.67	.74	1.03
File clerks	.80	.65	.64	.23	.20	.20	.17	.13	.10
Library attendants, assistants	.05	.04	.00	.05	.05	.02	.07	.07	.03
Mail handlers,exc post office	.92	.79	.49	.23	.22	.19	.21	.19	.17
Messengers and office helpers	.34	.28	.13	.04	.04	.02	.03	.03	.02
Payroll,timekeeping clerks	.29	.32	.36	.33	.33	.26	.35	.35	.26
Receptionists	.43	.32	.13	.25	.23	.19	.19	.19	.19
Shipping and receiving clerks	1.44	1.30	1.47	1.42	1.22	1.16	1.02	.90	.86
Statistical clerks	.53	.53	.39	.38	.43	.41	.34	.37	.38
Stock clerks and store keepers	.52	.44	.39	.82	.69	.67	.75	.66	.70
Telephone operators	.19	.13	.11	.22	.13	.07	.22	.13	.06
Weighers	.03	.03	.02	.28	.28	.32	.25	.28	.38
Misc clerical workers	1.91	1.82	1.85	1.03	1.07	1.15	1.06	1.08	.86
Crafts and kindred workers	34.73	34.73	34.85	17.06	17.07	18.45	23.85	24.02	25.60
Construction crafts workers	.41	.41	.49	3.38	3.20	3.66	5.58	5.56	6.84
Carpenters and apprentices	.07	.08	.09	.50	.46	.37	.83	.83	.77
Brick,stonemasons, apprentices	.01	.01	.00	.06	.05	.04	.14	.13	.11
Bulldozer operators	.01	.01	.02	.15	.16	.29	.14	.16	.33
Cement and concrete finishers	.00	.00	.00	.02	.02	.01	.06	.04	.02
Electricians and apprentices	.17	.18	.24	1.11	1.10	1.24	1.77	1.85	2.26
Excavating,grading mach operatr	.00	.00	.00	.13	.13	.17	.19	.19	.32
Floor layers, exc tile setters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Painters and apprentices	.10	.10	.11	.27	.26	.29	.33	.35	.47
Plumbers,pipefitters,aprentices	.04	.03	.03	1.10	1.01	1.22	2.04	1.95	2.47
Structural metal craft workers	.01	.01	.00	.03	.02	.03	.08	.06	.09
Blue collar worker supervisors	3.06	3.43	4.44	5.66	5.74	5.46	6.68	6.79	5.89
Metalworkg craft wrkrs,exc meca	.40	.43	.65	2.03	2.05	2.76	3.00	3.11	4.21
Blacksmiths	.00	.00	.00	.01	.01	.00	.02	.01	.00
Boilermakers	.00	.00	.00	.13	.12	.14	.29	.27	.34
Heat treaters, annealers	.00	.00	.00	.01	.01	.00	.01	.01	.01
Forge and hammer operators	.05	.06	.10	.00	.00	.00	.01	.01	.01
Job and die setters, metal	.01	.01	.01	.02	.02	.02	.02	.02	.03
Machinists and apprentices	.21	.23	.34	1.06	1.11	1.59	1.53	1.64	2.46
Millwrights	.01	.02	.03	.51	.55	.67	.79	.88	1.06
Pattern and moldmakers	.03	.03	.05	.01	.01	.01	.01	.01	.01
Rollers and finishers,metal	.00	.00	.00	.01	.00	.00	.01	.01	.01
Sheetmetal workers, apprentices	.03	.03	.05	.16	.14	.17	.22	.18	.19
Tool and diemakers, apprentices	.05	.05	.08	.12	.10	.15	.11	.09	.09
Mechanics,repairers,installers	1.06	1.17	1.29	4.35	4.78	5.64	5.96	6.51	7.36
Air cond, heating, refrig meca	.01	.02	.03	.13	.16	.16	.10	.13	.14
Aircraft mechanics	.00	.00	.00	.01	.01	.00	.02	.02	.01
Auto mechanics and apprentices	.02	.02	.01	.17	.14	.15	.25	.24	.31
Data processing mach repairers	.01	.01	.01	.00	.01	.01	.01	.01	.01
Farm implement mechanics	.00	.00	.00	.01	.01	.02	.02	.03	.07
Heavy equip mech, incl diesel	.94	1.06	1.18	3.07	3.47	4.24	3.58	4.02	4.59
Household appliance mechanics	.01	.01	.01	.02	.03	.03	.05	.06	.08
Loom fixers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Office machine repairers	.03	.02	.04	.01	.01	.02	.02	.01	.02
Radio, television repairers	.01	.01	.01	.03	.02	.02	.05	.02	.01
Railroad, car shop repairers	.00	.00	.00	.02	.02	.03	.05	.06	.10
Other mechanics and apprentices	.04	.03	.01	.88	.89	.92	1.82	1.92	2.02
Printing trade crafts workers	29.01	28.71	27.64	.21	.22	.20	.10	.10	.09
Bookbinders	3.88	3.02	3.62	.00	.00	.00	.00	.00	.00
Compositors and typesetters	10.17	9.61	6.75	.12	.12	.08	.06	.05	.02
Electrotypers and stereotypers	.24	.06	.02	.00	.00	.00	.00	.00	.00
Engravers exc photoengravers	.28	.25	.19	.00	.00	.00	.00	.00	.00
Photoengravers, lithographers	3.23	3.46	4.84	.01	.00	.00	.00	.00	.00
Press,plate printers,aprentices	11.21	12.32	12.22	.08	.10	.12	.05	.05	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other printg, exc newspapers			Chemical and allied products			Industrial chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport,public util craft wkrs	.02	.02	.02	.11	.09	.05	.15	.12	.06
Elec pwr line instaler,repairer	.01	.01	.01	.01	.01	.01	.01	.01	.01
Locomotive engineers	.00	.00	.00	.01	.01	.01	.02	.02	.01
Power station operators	.00	.00	.00	.08	.06	.03	.11	.08	.01
Telephone installers,repairers	.01	.01	.01	.01	.01	.01	.02	.02	.02
Other crafts, kindred workers	.77	.56	.32	1.32	.99	.69	2.38	1.81	1.16
Bakers	.01	.02	.02	.00	.00	.00	.00	.00	.00
Cabinetmakers	.00	.00	.00	.02	.01	.01	.05	.04	.02
Crane,derrick,hoist operator	.05	.04	.06	.25	.17	.13	.49	.35	.24
Inspectors, other	.01	.01	.01	.10	.10	.09	.17	.18	.16
Opticians,lens grinder,polisher	.00	.00	.00	.01	.00	.00	.01	.01	.01
Shipfitters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.03	.03	.04	.01	.01	.00	.01	.01	.01
Stationary engineers	.07	.04	.01	.74	.49	.22	1.26	.81	.21
Other crafts workers	.60	.41	.17	.19	.19	.22	.39	.41	.51
Operatives	15.42	14.53	12.74	30.54	29.24	27.51	23.89	22.94	19.14
Operatives,except transport	14.13	13.28	11.18	27.46	26.27	24.36	20.76	19.85	15.64
Semiskilled metalworking	.31	.21	.10	1.21	1.09	1.14	2.02	1.95	2.12
Drill press operatives	.03	.02	.01	.03	.02	.01	.05	.03	.01
Furnace tendrs,smeltrs,pourers	.00	.00	.00	.05	.05	.05	.12	.11	.11
Grinding machine operatives	.01	.01	.01	.04	.03	.03	.07	.05	.03
Lathe,milling mach operatives	.04	.02	.01	.12	.08	.06	.16	.11	.09
Metal platers	.04	.03	.01	.02	.02	.02	.02	.02	.03
Other precision mach operators	.01	.01	.00	.03	.03	.03	.02	.02	.02
Punch,stamping press operatives	.15	.09	.02	.10	.08	.06	.13	.11	.09
Solderers	.01	.00	.00	.01	.01	.00	.02	.02	.01
Welders and flamecutters	.03	.03	.05	.79	.78	.87	1.44	1.47	1.72
Semiskilled textile operatives	.00	.00	.00	2.63	2.50	2.58	.00	.00	.00
Carding,lapping combing oprs	.00	.00	.00	.08	.06	.01	.00	.00	.00
Knitters,loopers, and toppers	.00	.00	.00	.02	.02	.03	.00	.00	.00
Spinners, twisters, winders	.00	.00	.00	1.58	1.54	1.75	.00	.00	.00
Weavers	.00	.00	.00	.03	.04	.07	.00	.00	.00
Other textile operatives	.00	.00	.00	.92	.84	.71	.00	.00	.00
Semiskilled packing, inspecting	2.95	2.90	3.65	5.25	5.00	5.27	2.24	1.93	1.49
Checkers, examiners, mfg	1.16	1.17	1.45	2.01	2.03	2.52	1.28	1.20	1.16
Graders and scrtrs, mfg	.14	.15	.18	.07	.07	.07	.02	.02	.00
Packer,wrapper,exc meat,prodce	1.65	1.58	2.02	3.18	2.91	2.69	.94	.71	.32
Other operatives, exc transport	10.87	10.17	7.43	18.37	17.69	15.38	16.50	15.98	12.04
Asbestos,insulation workers	.00	.00	.00	.15	.21	.22	.27	.40	.38
Assemblers	.55	.63	.93	1.55	1.65	1.98	.47	.51	.60
Blasters	.00	.00	.00	.04	.03	.01	.01	.01	.00
Bottling,canning operatives	.00	.00	.00	.32	.34	.35	.12	.12	.14
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Clothing ironers and pressers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Cutting operatives, other	1.32	1.18	.78	.34	.32	.33	.14	.14	.14
Drillers, earth	.00	.00	.00	.02	.02	.03	.05	.05	.10
Dyers	.01	.01	.01	.04	.04	.04	.05	.03	.01
Filer,polisher,sander,buffer	.02	.02	.01	.09	.07	.04	.06	.05	.02
Garage wkr, gas station atten	.00	.00	.00	.02	.02	.01	.02	.01	.02
Laundry,dry cleang oprs,other	.01	.01	.01	.02	.02	.02	.03	.03	.05
Meat cutters and butchers	.00	.00	.00	.02	.02	.03	.00	.00	.00
Mixing operatives	.09	.07	.05	2.21	2.16	2.17	1.28	1.29	1.33
Oilers,greasers,exc automobiles'	.03	.02	.02	.12	.09	.04	.17	.12	.04
Painters, mfg articles	.11	.08	.06	.44	.37	.39	.50	.45	.54
Photographic process workers	.88	.94	1.24	.03	.03	.03	.05	.05	.05
Riveters and fasteners	.06	.05	.03	.07	.07	.08	.00	.00	.00
Sawyers	.01	.01	.01	.05	.04	.03	.07	.05	.02
Sewers and stitchers	.32	.24	.17	.15	.13	.17	.05	.05	.10
Furnace tendr, stokr, exc metal	.03	.03	.05	.61	.35	.22	1.06	.64	.37
Winding operatives, other	.05	.04	.02	.07	.07	.07	.04	.04	.06
Miscellaneous machine operatives	3.95	3.69	2.47	8.49	8.04	6.18	8.75	8.22	5.17
Other operatives, exc transport	3.43	3.16	1.59	3.51	3.62	2.94	3.31	3.69	2.89

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other printg, exc newspapers			Chemical and allied products			Industrial chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport equipment operatives	1.29	1.25	1.56	3.09	2.97	3.15	3.12	3.08	3.50
Bus drivers	.00	.00	.00	.00	.01	.00	.01	.01	.01
Delivery and route workers	.49	.42	.45	.30	.25	.23	.31	.26	.21
Fork lift,tow motor operatives	.30	.32	.30	1.14	1.18	.97	.83	.86	.60
Rail vehicle operators, other	.00	.00	.00	.01	.01	.01	.01	.01	.01
Railroad brake operators	.00	.00	.00	.01	.01	.02	.02	.03	.04
Railroad switch operators	.00	.00	.00	.02	.02	.04	.03	.03	.08
Taxicab drivers, chauffeurs	.04	.03	.01	.06	.05	.02	.05	.04	.02
Truck drivers	.46	.48	.79	1.54	1.45	1.87	1.87	1.84	2.53
Service workers	1.32	1.07	.61	2.94	2.58	2.16	3.35	3.07	2.94
Cleaning service workers	.98	.77	.35	1.89	1.64	1.25	2.15	2.02	2.03
Bldg interior cleaners, other	.20	.17	.09	.23	.22	.19	.19	.20	.21
Janitors and sextons	.79	.60	.26	1.67	1.42	1.07	1.95	1.83	1.82
Food service workers	.09	.07	.06	.21	.16	.13	.19	.14	.15
Cooks,exc private households	.03	.02	.03	.07	.05	.03	.06	.04	.03
Dishwashers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Food counter,fountain workers	.02	.02	.02	.04	.04	.03	.02	.02	.02
Waiters	.01	.01	.01	.03	.02	.01	.03	.02	.01
Other food serv wkrs,exc privt	.02	.01	.01	.06	.05	.05	.07	.06	.09
Health service workers	.00	.00	.00	.02	.02	.06	.02	.02	.06
Nursing aides and orderlies	.00	.00	.00	.01	.01	.05	.02	.02	.06
Personal service workers	.05	.04	.02	.07	.08	.08	.03	.02	.02
Attendants,personal serv,other	.02	.01	.01	.02	.02	.02	.01	.01	.01
Elevator operators	.04	.03	.01	.01	.02	.02	.00	.00	.00
Hairdressers and cosmetologists	.00	.00	.00	.03	.04	.04	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.01	.01	.01
Protective service workers	.19	.18	.19	.76	.68	.64	.97	.87	.68
Firefighters	.00	.00	.00	.03	.02	.02	.05	.04	.04
Guards	.19	.18	.19	.71	.65	.61	.89	.81	.64
Police and detectives	.00	.00	.00	.01	.01	.00	.03	.02	.00
Laborers, except farm	1.93	1.68	1.14	3.92	3.64	3.44	3.34	3.22	3.69
Animal caretakers, exc farm	.00	.00	.00	.07	.10	.08	.02	.03	.02
Carpenter helpers	.00	.00	.00	.05	.03	.03	.09	.06	.06
Constr labr,exc carpenter help	.01	.01	.02	.21	.18	.16	.34	.32	.33
Freight and material handlers	.94	.81	.58	1.79	1.67	1.74	1.50	1.52	1.93
Gardenrs,groundkeepers,exc farm	.02	.02	.02	.08	.08	.10	.09	.10	.14
Longshore workers, stevedores	.00	.00	.00	.01	.01	.00	.02	.02	.00
Stock handlers	.55	.49	.23	.59	.59	.44	.22	.25	.28
Vehicle washers,equip cleaners	.14	.11	.04	.29	.28	.22	.25	.27	.29
Warehouse labcrers, other	.15	.15	.19	.39	.34	.28	.29	.23	.11
Other laborers	.13	.10	.06	.45	.36	.37	.51	.43	.52

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Plastics and synthetics			Synthetic fibers			Drugs and medicines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	17.80	18.29	19.04	15.09	15.72	16.27	23.18	24.89	23.89
Engineers, technical	4.72	4.59	5.05	4.23	4.34	5.40	1.81	1.75	2.14
Chemical	2.78	2.76	3.05	2.12	2.33	3.23	.80	.87	1.26
Civil	.14	.08	.04	.14	.10	.11	.06	.04	.04
Electrical	.25	.23	.21	.37	.38	.51	.07	.07	.09
Industrial	.53	.54	.52	.54	.56	.53	.50	.47	.52
Mechanical	.61	.59	.74	.87	.80	.84	.24	.18	.17
Metallurgical	.03	.03	.04	.00	.00	.00	.00	.00	.00
Sales	.13	.10	.09	.00	.00	.00	.00	.00	.00
Other engineers	.27	.26	.36	.20	.17	.18	.14	.11	.07
Life and physical scientists	2.59	2.57	2.62	1.20	1.18	1.10	6.53	7.32	6.99
Agricultural	.01	.01	.02	.03	.03	.00	.02	.02	.01
Biological	.03	.05	.03	.01	.02	.03	1.69	2.68	2.68
Chemists	2.44	2.41	2.50	1.11	1.08	.99	4.75	4.55	4.24
Geologists	.02	.01	.01	.00	.00	.00	.01	.01	.01
Marine	.00	.00	.00	.01	.01	.02	.00	.00	.00
Physicists and astronomers	.05	.05	.05	.04	.05	.06	.02	.03	.04
Other life, physical scientists	.04	.04	.01	.00	.00	.00	.05	.04	.01
Mathematical specialists	.04	.04	.05	.03	.03	.03	.17	.15	.11
Mathematicians	.01	.01	.00	.01	.01	.01	.02	.03	.02
Statisticians	.03	.04	.05	.02	.02	.01	.15	.13	.09
Engineering, science technicians	6.91	7.15	8.01	6.70	6.98	7.21	6.73	6.43	6.13
Agricultural, biolgcl, exc health	.00	.00	.00	.00	.00	.00	4.16	3.93	3.75
Chemical technicians	4.21	4.31	4.58	4.66	4.87	4.90	1.14	1.16	1.15
Drafters	.43	.40	.62	.34	.32	.49	.22	.18	.19
Electrical and electronic	.05	.06	.09	.07	.08	.09	.08	.07	.05
Industrial engineering	.21	.29	.40	.23	.29	.31	.17	.15	.13
Mechanical engineering	.03	.04	.07	.02	.02	.02	.00	.00	.00
Other engineering, science tech	1.98	2.04	2.27	1.39	1.40	1.40	.97	.94	.85
Medical workers, exc technicians	.13	.07	.00	.13	.12	.11	1.08	1.32	1.53
Pharmacists	.00	.00	.00	.00	.00	.00	.58	.65	.90
Physicians and osteopaths	.02	.02	.00	.03	.03	.05	.17	.19	.27
Registered nurses	.11	.06	.00	.10	.09	.06	.17	.17	.21
Veterinarians	.00	.00	.00	.00	.00	.00	.13	.14	.11
Other medical and health tech	.00	.00	.00	.00	.00	.00	.02	.17	.05
Health technologists, technicians	.01	.01	.01	.02	.02	.01	.37	.42	.24
Clinical lab technologists, tech	.01	.01	.01	.02	.02	.01	.21	.19	.15
Other health technicians	.00	.00	.00	.00	.00	.00	.16	.23	.09
Technicians, except health	.06	.09	.13	.07	.10	.12	.04	.05	.05
Airplane pilots	.01	.01	.01	.00	.00	.00	.00	.00	.00
Tool programmers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other technicians except health	.05	.07	.12	.07	.10	.12	.03	.04	.04
Computer specialists	.40	.55	.65	.36	.47	.42	.86	1.11	1.05
Computer programers	.27	.31	.34	.21	.23	.21	.43	.49	.50
Computer systems analysts	.10	.16	.23	.12	.16	.14	.39	.55	.51
Other computer specialists	.04	.08	.08	.04	.07	.07	.04	.07	.05
Social scientists	.16	.26	.33	.10	.16	.17	.51	.74	.70
Economists	.16	.26	.33	.10	.16	.17	.50	.74	.70
Teachers	.02	.02	.02	.11	.11	.05	.02	.02	.01
Adult education	.02	.02	.02	.11	.11	.05	.02	.02	.01
Writers, artists, entertainers	.44	.49	.38	.09	.10	.10	1.08	1.27	1.29
Authors	.03	.02	.00	.00	.00	.00	.03	.02	.02
Designers	.23	.24	.18	.05	.06	.07	.13	.16	.21
Editors and reporters	.02	.02	.01	.01	.01	.01	.30	.34	.46
Painters and sculptors	.07	.09	.08	.00	.00	.00	.16	.18	.09
Photographers	.00	.00	.00	.00	.00	.00	.03	.03	.05
Public relations specialists	.06	.07	.06	.02	.02	.01	.31	.38	.35
Other writers, artists, entertain	.04	.05	.05	.01	.01	.01	.12	.15	.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Plastics and synthetics			Synthetic fibers			Drugs and medicines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.31	2.44	1.80	2.06	2.13	1.56	3.99	4.33	3.66
Accountants	1.10	1.10	.70	.63	.70	.63	1.36	1.54	1.60
Lawyers	.07	.12	.08	.03	.04	.01	.32	.68	.75
Librarians	.02	.02	.01	.00	.00	.00	.12	.10	.03
Operations and systems research	.22	.34	.39	.28	.38	.33	.36	.48	.42
Personnel, labor relations wkrs	.51	.51	.34	.66	.62	.30	.65	.64	.40
Other research workers	.39	.34	.28	.47	.39	.29	1.19	.90	.46
Managers, officials, proprietors	7.55	8.88	10.29	2.39	2.90	3.63	8.95	9.95	10.92
Buyers, sales, loan managers	1.38	1.44	2.12	.44	.39	.34	2.44	2.28	2.37
Bank, financial managers	.13	.16	.24	.07	.07	.08	.27	.23	.12
Credit managers	.05	.03	.02	.00	.00	.00	.16	.09	.07
Purchasing agents, buyers, other	.53	.50	.71	.22	.17	.11	.54	.43	.31
Sales manager, exc retail trade	.66	.75	1.15	.15	.15	.15	1.47	1.53	1.86
Other managers, officials, proprts	6.18	7.44	8.17	1.95	2.51	3.30	6.51	7.67	8.55
Office managers, other	.27	.29	.39	.06	.06	.07	.19	.19	.21
Restaurant, cafe, bar, managers	.00	.00	.00	.02	.02	.01	.03	.02	.01
Other managers, administrators	5.91	7.15	7.79	1.87	2.43	3.22	6.29	7.45	8.33
Sales workers	1.71	1.76	2.15	.39	.40	.50	9.75	10.22	12.86
Advertising agents, sales worker	.01	.01	.01	.00	.00	.00	.04	.06	.07
Other sales workers	1.70	1.75	2.14	.39	.40	.50	9.70	10.17	12.79
Clerical workers	12.14	11.51	11.58	7.48	7.23	7.48	20.11	19.08	18.60
Stenographers, typists, secretaries	4.47	4.09	4.30	2.24	2.12	2.40	9.05	8.80	9.41
Legal secretaries	.03	.02	.03	.02	.02	.02	.11	.09	.09
Medical secretaries	.00	.00	.00	.01	.01	.01	.21	.13	.18
Other secretaries	3.44	3.37	3.79	1.67	1.71	2.13	6.93	7.07	7.53
Stenographers	.24	.09	.01	.15	.09	.04	.14	.06	.01
Typists	.76	.61	.48	.39	.30	.20	1.67	1.45	1.61
Office machine operators	.74	.95	.72	.76	.80	.52	1.43	1.49	.99
Bookkeeping and billing	.06	.03	.04	.01	.00	.01	.09	.04	.02
Calculating	.01	.01	.01	.02	.02	.01	.05	.02	.00
Computer and peripheral equip	.31	.63	.51	.19	.41	.34	.38	.80	.67
Duplicating	.01	.00	.00	.00	.00	.00	.07	.05	.03
Keypunch	.31	.22	.11	.49	.35	.16	.71	.49	.21
Tabulating	.01	.00	.00	.02	.01	.00	.04	.01	.00
Other office machine operators	.05	.05	.04	.03	.02	.00	.09	.08	.06
Other clerical workers	6.93	6.47	6.56	4.48	4.31	4.56	9.63	8.79	8.19
Billing clerks	.10	.10	.15	.03	.04	.08	.21	.21	.27
Bookkeepers	1.24	1.14	.99	.51	.49	.50	1.58	1.56	1.90
Cashiers	.04	.05	.10	.12	.12	.08	.12	.13	.15
Clerical supervisors, other	.11	.12	.14	.12	.13	.15	.24	.26	.25
Collectors, bill and account	.00	.00	.00	.00	.00	.00	.01	.01	.01
Counter clerks, exc food	.14	.15	.20	.05	.06	.07	.30	.29	.28
Dispatchers, starters, vehicle	.02	.02	.02	.01	.01	.01	.00	.00	.00
Estimators, investigators, other	.15	.18	.17	.04	.04	.03	.27	.28	.16
Expeditors, production controls	.72	.81	1.22	.48	.49	.54	.54	.50	.38
File clerks	.15	.12	.10	.11	.10	.13	.41	.35	.39
Library attendants, assistants	.03	.03	.01	.00	.00	.00	.14	.12	.02
Mail handlers, exc post office	.11	.11	.11	.04	.04	.05	.37	.33	.27
Messengers and office helpers	.03	.02	.01	.01	.01	.02	.06	.04	.01
Payroll, timekeeping clerks	.27	.26	.17	.20	.20	.12	.29	.31	.30
Receptionists	.13	.13	.13	.09	.08	.06	.33	.27	.14
Shipping and receiving clerks	1.49	1.14	.64	.92	.93	1.38	1.34	1.01	.57
Statistical clerks	.24	.25	.21	.26	.28	.23	.74	.77	.70
Stock clerks and store keepers	.74	.68	.84	.45	.34	.19	.82	.57	.41
Telephone operators	.23	.11	.03	.11	.07	.04	.18	.12	.10
Weighers	.21	.22	.30	.27	.23	.12	.20	.17	.08
Misc clerical workers	.80	.83	1.04	.65	.66	.75	1.49	1.51	1.82
Crafts and kindred workers	19.72	20.21	22.03	20.36	21.97	26.17	8.92	9.04	9.31

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Plastics and synthetics			Synthetic fibers			Drugs and medicines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	3.29	3.02	3.07	3.21	3.18	3.71	1.44	1.32	1.17
Carpenters and apprentices	.47	.35	.09	.42	.40	.34	.25	.27	.23
Brick,stonemasons, apprentices	.02	.02	.01	.00	.00	.00	.03	.02	.01
Bulldozer operators	.03	.04	.07	.07	.07	.13	.01	.01	.01
Cement and concrete finishers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Electricians and apprentices	1.26	1.18	1.02	1.43	1.50	1.79	.53	.47	.46
Excavating,grading mach operatr	.03	.04	.09	.00	.00	.00	.01	.01	.01
Floor layers, exc tile setters	.04	.03	.04	.00	.00	.00	.01	.00	.00
Painters and apprentices	.28	.29	.37	.16	.12	.06	.14	.10	.04
Plumbers,pipefitters,aprentices	1.12	1.06	1.37	1.13	1.08	1.39	.46	.43	.40
Structural metal craft workers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Tile setters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	6.99	7.08	6.47	7.30	7.96	9.01	3.61	3.68	3.55
Metalworkg craft wrkrs,exc meca	2.75	2.86	3.99	2.80	3.06	4.23	.78	.82	1.16
Blacksmiths	.00	.00	.00	.02	.02	.00	.00	.00	.00
Boilermakers	.14	.11	.06	.10	.11	.19	.00	.00	.00
Job and die setters, metal	.06	.05	.06	.00	.00	.00	.01	.01	.01
Machinists and apprentices	1.40	1.61	2.59	1.19	1.32	1.92	.52	.57	.83
Millwrights	.48	.48	.41	1.12	1.24	1.52	.08	.10	.15
Pattern and mcldmakers	.06	.05	.08	.00	.00	.00	.00	.00	.00
Rollers and finishers,metal	.03	.02	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.18	.16	.23	.31	.29	.40	.10	.07	.04
Tool and diemakers, apprentices	.42	.39	.55	.07	.08	.20	.07	.07	.13
Mechanics,repairers,installers	5.22	6.02	7.67	5.77	6.73	8.43	2.21	2.44	2.83
Air cond, heating, refrig mech	.12	.16	.18	.34	.45	.45	.18	.21	.17
Aircraft mechanics	.03	.02	.01	.00	.00	.00	.00	.00	.00
Auto mecaanics and apprentices	.07	.07	.10	.06	.04	.01	.05	.04	.03
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Farm implement mechanics	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	4.04	4.76	6.24	4.28	5.15	6.89	1.74	2.01	2.54
Household appliance mechanics	.01	.01	.01	.00	.00	.00	.01	.01	.01
Loom fixers	.00	.00	.00	.13	.13	.16	.00	.00	.00
Office machine repairers	.00	.00	.00	.00	.00	.00	.01	.02	.05
Radio, television repairers	.04	.02	.01	.08	.09	.15	.00	.00	.00
Other mechanics and apprentices	.89	.96	1.11	.88	.88	.78	.22	.16	.03
Printing trade crafts workers	.25	.21	.08	.08	.11	.24	.41	.41	.37
Compositors and typesetters	.12	.09	.00	.05	.07	.13	.24	.21	.11
Engravers exc photoengravers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Press,plate printers,aprentices	.11	.11	.06	.03	.05	.10	.18	.21	.26
Transport,public util craft wrks	.11	.10	.07	.19	.15	.05	.04	.05	.08
Elec pwr line instaler,repairer	.00	.00	.00	.02	.02	.01	.00	.00	.00
Power station operators	.07	.05	.01	.18	.14	.05	.04	.05	.08
Telephone installers,repairers	.03	.04	.05	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	1.11	.91	.68	1.01	.77	.50	.41	.31	.15
Crane,derrick,hoist operator	.18	.11	.05	.09	.07	.08	.00	.00	.00
Inspectors, other	.14	.15	.15	.09	.11	.16	.02	.02	.02
Opticians,lens grinder,polisaer	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.02	.02	.00	.00	.00	.00	.00	.00	.00
Stationary engineers	.64	.50	.31	.56	.35	.08	.33	.24	.10
Tailors	.00	.00	.00	.03	.04	.07	.00	.00	.00
Other crafts workers	.13	.13	.16	.23	.20	.12	.07	.06	.03
Operatives	35.32	34.03	30.02	48.74	47.01	42.32	23.14	21.88	21.00
Operatives,except transport	33.01	31.72	27.74	46.55	44.70	39.56	22.13	20.91	20.11
Semiskilled metalworking	1.43	1.23	1.08	.86	.78	.81	.25	.21	.21
Drill press operatives	.07	.06	.04	.05	.03	.01	.00	.00	.00
Furnace tendrs,smeltrs,pourers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.08	.06	.04	.02	.02	.01	.00	.00	.00
Lathe,milling mach operatives	.19	.12	.09	.13	.08	.04	.05	.03	.02
Metal platers	.06	.06	.07	.00	.00	.00	.00	.00	.00
Other precision mach operators	.06	.05	.06	.07	.05	.06	.03	.02	.01
Punch,stamping press operatives	.20	.16	.11	.03	.02	.01	.03	.02	.01
Solderers	.02	.01	.00	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.74	.71	.65	.56	.58	.69	.15	.15	.18
Semiskilled textile operatives	.02	.02	.02	24.85	22.93	18.87	.00	.00	.00
Carding,lapping combing oprs	.02	.02	.02	.77	.50	.08	.00	.00	.00
Knitters,loopers, and toppers	.00	.00	.00	.14	.16	.22	.00	.00	.00
Spinners, twisters, winders	.00	.00	.00	14.94	14.21	12.83	.00	.00	.00
Weavers	.00	.00	.00	.31	.35	.55	.00	.00	.00
Other textile operatives	.00	.00	.00	8.69	7.71	5.19	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Plastics and synthetics			Synthetic fibers			Drugs and medicines		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled packing, inspecting	4.88	4.05	2.92	4.84	5.15	7.11	9.35	8.82	10.28
Checkers, examiners, mfg	2.26	2.12	2.12	3.49	3.88	5.74	3.09	3.09	3.89
Graders and sciters, mfg	.07	.05	.00	.12	.13	.17	.16	.16	.23
Packer, wrapper, exc meat, prodce	2.55	1.87	.80	1.24	1.14	1.20	6.10	5.58	6.16
Other operatives, exc transport	26.68	26.43	23.72	16.00	15.84	12.77	12.53	11.88	9.63
Asbestos, insulation workers	.08	.07	.02	.33	.54	.67	.03	.03	.01
Assemblers	1.40	1.45	1.58	.38	.40	.47	1.86	1.93	2.18
Bottling, canning operatives	.02	.03	.03	.02	.02	.01	.64	.65	.70
Surveyors' helpers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Cutting operatives, other	1.39	1.34	1.25	.81	.80	.77	.10	.10	.11
Dyers	.09	.05	.00	.16	.18	.25	.00	.00	.00
Filer, polisher, sander, buffer	.23	.21	.18	.09	.06	.00	.06	.03	.01
Garage wrkr, gas station atten	.01	.01	.01	.01	.01	.01	.07	.04	.02
Laundry, dry cleang oprs, other	.00	.00	.00	.03	.02	.00	.02	.01	.01
Mixing operatives	1.60	1.58	1.65	.75	.73	.68	1.03	.91	.61
Oilers, greasers, exc automobiles	.10	.09	.07	.11	.10	.07	.06	.05	.04
Painters, mfg articles	.38	.36	.54	.25	.20	.17	.23	.17	.11
Photographic process workers	.06	.06	.06	.03	.03	.02	.02	.02	.02
Riveters and fasteners	.08	.10	.16	.48	.44	.36	.02	.02	.01
Sawyers	.11	.09	.05	.03	.04	.10	.00	.00	.00
Sewers and stitchers	.16	.14	.15	.28	.25	.35	.05	.04	.06
Furnace tendr, stokr, exc metal	.54	.28	.08	.37	.22	.11	.25	.18	.27
winding operatives, other	.17	.18	.20	.18	.14	.06	.04	.03	.01
Miscellaneous machine operatives	16.21	15.99	13.29	6.69	6.67	5.44	5.65	5.52	4.55
Other operatives, exc transport	4.05	4.41	4.38	4.99	4.99	3.22	2.43	2.16	.92
Transport equipment operatives	2.31	2.31	2.28	2.19	2.32	2.77	1.01	.96	.89
Bus drivers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.11	.09	.06	.06	.06	.10	.14	.12	.14
Fork lift, tow motor operatives	1.28	1.32	1.02	1.32	1.34	.90	.45	.50	.53
Taxicab drivers, chauffeurs	.02	.02	.01	.05	.06	.07	.06	.04	.01
Truck drivers	.89	.87	1.19	.76	.85	1.70	.37	.30	.21
Service workers	2.36	2.12	1.76	2.68	2.24	1.57	2.99	2.28	1.47
Cleaning service workers	1.64	1.46	1.19	1.69	1.32	.58	1.87	1.35	.46
Bldg interior cleaners, other	.09	.10	.12	.19	.15	.06	.33	.27	.11
Janitors and sextons	1.55	1.36	1.06	1.50	1.17	.52	1.55	1.09	.35
Food service workers	.09	.07	.05	.27	.20	.12	.43	.31	.21
Cooks, exc private households	.04	.02	.01	.13	.10	.09	.10	.07	.06
Dishwashers	.00	.00	.00	.01	.01	.01	.02	.01	.01
Food counter, fountain workers	.01	.02	.02	.08	.05	.01	.11	.10	.09
Waiters	.02	.01	.01	.02	.02	.01	.04	.03	.02
Other food serv wkrs, exc privt	.02	.02	.02	.04	.02	.01	.16	.10	.04
Health service workers	.01	.01	.02	.02	.02	.05	.06	.07	.15
Health aides, except nursing	.00	.00	.00	.00	.00	.00	.04	.05	.05
Nursing aides and orderlies	.01	.01	.02	.02	.02	.05	.02	.02	.10
Personal service workers	.01	.01	.01	.05	.05	.07	.11	.09	.07
Attendants, personal serv, other	.00	.00	.00	.01	.01	.01	.04	.03	.01
Child care workers, exc private	.00	.00	.00	.02	.01	.02	.00	.00	.00
Elevator operators	.01	.01	.01	.01	.01	.03	.04	.04	.06
Housekeepers, exc private homes	.00	.00	.00	.02	.02	.01	.02	.02	.01
Protective service workers	.61	.57	.50	.65	.65	.75	.53	.45	.58
Firefighters	.01	.01	.01	.05	.05	.06	.00	.00	.00
Guards	.58	.55	.49	.59	.60	.68	.53	.45	.58
Police and detectives	.01	.01	.00	.01	.01	.00	.00	.00	.00
Laborers, except farm	3.41	3.22	3.13	2.87	2.54	2.05	2.96	2.67	1.95
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.46	.50	.39
Carpenter helpers	.06	.05	.04	.04	.04	.06	.00	.00	.00
Constr labr, exc carpenter help	.18	.16	.19	.30	.23	.10	.05	.04	.01
Freight and material handlers	1.67	1.55	1.48	1.31	1.22	1.15	.88	.82	.81
Garbage collectors	.01	.01	.01	.00	.00	.00	.01	.01	.01
Gardenrs, groundkeepers, exc farm	.10	.11	.14	.07	.07	.07	.06	.06	.05
Stock handlers	.44	.48	.52	.17	.14	.05	.58	.48	.17
Teamsters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Vehicle washers, equip cleaners	.33	.34	.34	.39	.31	.10	.38	.30	.11
Warehouse labcrers, other	.33	.25	.11	.19	.19	.26	.32	.29	.27
Other laborers	.29	.25	.29	.41	.34	.27	.23	.18	.14

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Soaps and cosmetics			Paints and varnishes			Agricultural chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	11.75	12.28	10.70	15.18	15.66	14.70	12.28	12.78	12.50
Engineers, technical	2.06	1.88	1.60	1.29	1.19	1.05	2.32	2.11	1.94
Chemical	.84	.79	.71	.70	.67	.62	1.33	1.28	1.27
Civil	.08	.06	.05	.01	.01	.00	.12	.08	.07
Electrical	.06	.05	.05	.05	.04	.04	.10	.08	.06
Industrial	.50	.49	.38	.26	.25	.22	.20	.19	.14
Mechanical	.38	.32	.26	.08	.06	.03	.42	.36	.31
Sales	.04	.03	.04	.10	.08	.09	.03	.02	.01
Other engineers	.16	.13	.11	.09	.08	.07	.13	.11	.09
Life and physical scientists	2.31	2.31	2.10	4.39	4.22	3.57	3.06	3.03	2.52
Agricultural	.01	.01	.00	.00	.00	.00	.29	.32	.18
Biological	.13	.19	.14	.02	.03	.05	.16	.24	.20
Chemists	2.18	2.11	1.94	4.35	4.16	3.48	2.56	2.44	2.13
Geologists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Physicists and astronomers	.00	.00	.01	.01	.01	.02	.04	.03	.01
Mathematical specialists	.05	.05	.04	.05	.03	.00	.04	.03	.01
Mathematicians	.00	.00	.00	.02	.02	.00	.00	.00	.00
Statisticians	.05	.05	.04	.03	.02	.00	.04	.03	.01
Engineering, science technicians	2.97	3.08	3.23	6.47	6.88	7.38	3.71	4.04	4.89
Agricultural, biol, exc health	.05	.06	.06	.01	.01	.01	.11	.13	.17
Chemical technicians	2.04	2.10	2.08	5.27	5.56	5.84	2.82	3.12	3.77
Drafters	.14	.13	.20	.11	.09	.09	.20	.15	.10
Electrical and electronic	.06	.09	.16	.00	.00	.00	.05	.05	.07
Industrial engineering	.11	.14	.17	.24	.31	.35	.02	.03	.03
Mechanical engineering	.03	.05	.10	.01	.01	.01	.01	.01	.01
Surveyors	.02	.01	.01	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.52	.51	.46	.84	.89	1.07	.50	.55	.73
Medical workers, exc technicians	.10	.06	.01	.03	.02	.01	.05	.05	.07
Pharmacists	.01	.01	.00	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.01	.00	.00	.00	.00	.00	.01	.01	.00
Registered nurses	.08	.05	.01	.03	.02	.01	.03	.03	.05
Veterinarians	.00	.00	.00	.00	.00	.00	.01	.01	.01
Health technologists, technicians	.02	.02	.01	.02	.02	.01	.00	.00	.00
Clinical lab technologists, tech	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other health technicians	.01	.01	.01	.01	.01	.01	.00	.00	.00
Technicians, except health	.06	.07	.06	.01	.01	.00	.06	.06	.03
Airplane pilots	.05	.06	.06	.00	.00	.00	.03	.03	.03
Other technicians except health	.01	.00	.00	.01	.01	.00	.04	.03	.00
Computer specialists	.45	.55	.47	.31	.42	.42	.32	.39	.37
Computer programers	.28	.31	.28	.19	.22	.26	.23	.26	.24
Computer systems analysts	.16	.22	.17	.09	.13	.12	.09	.13	.13
Other computer specialists	.01	.02	.02	.04	.06	.04	.00	.00	.00
Social scientists	.32	.46	.37	.18	.27	.24	.14	.21	.17
Economists	.32	.46	.37	.18	.27	.24	.14	.21	.17
Teachers	.02	.02	.02	.03	.03	.01	.01	.01	.01
Adult education	.02	.02	.02	.03	.03	.01	.01	.01	.01
Writers, artists, entertainers	.77	.94	.88	.27	.32	.30	.18	.20	.18
Designers	.20	.23	.20	.05	.06	.07	.00	.00	.00
Editors and reporters	.07	.08	.11	.05	.06	.07	.00	.00	.00
Painters and sculptors	.20	.28	.31	.04	.05	.02	.00	.00	.00
Photographers	.02	.01	.01	.00	.00	.00	.03	.02	.01
Public relations specialists	.24	.28	.22	.10	.13	.12	.10	.14	.18
Other writers, artists, entertain	.05	.06	.04	.03	.02	.01	.04	.03	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Soaps and cosmetics			Paints and varnishes			Agricultural chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.63	2.85	1.93	2.14	2.25	1.73	2.40	2.66	2.32
Accountants	1.27	1.32	.92	1.26	1.38	1.19	1.48	1.67	1.57
Lawyers	.19	.32	.20	.05	.08	.03	.06	.09	.04
Librarians	.03	.03	.03	.03	.02	.01	.02	.02	.01
Operations and systems research	.33	.41	.28	.20	.25	.16	.15	.21	.18
Personnel, labor relations wkrs	.55	.56	.37	.34	.36	.31	.34	.36	.29
Other research workers	.26	.21	.13	.27	.17	.04	.35	.31	.24
Managers, officials, proprietors	10.41	11.68	12.45	10.68	11.82	12.09	11.19	12.73	13.69
Buyers, sales, loan managers	2.71	2.62	2.91	2.69	2.47	2.54	2.24	2.19	2.66
Bank, financial managers	.19	.19	.18	.18	.17	.11	.21	.20	.15
Credit managers	.12	.07	.05	.40	.22	.17	.29	.17	.15
Purchasing agents, buyers, other	.80	.70	.73	.67	.58	.52	.51	.43	.42
Sales manager, exc retail trade	1.61	1.67	1.95	1.44	1.51	1.74	1.23	1.39	1.94
Other managers, officials, proprt	7.70	9.06	9.54	7.98	9.35	9.55	8.95	10.53	11.03
Mgrs, superintendents, building	.01	.01	.01	.00	.00	.00	.04	.04	.06
Office managers, other	.42	.44	.56	.59	.61	.70	.73	.72	.66
Other managers, administrators	7.27	8.60	8.97	7.40	8.74	8.85	8.18	9.77	10.31
Sales workers	6.65	6.74	8.29	7.35	7.32	8.11	4.72	4.59	4.78
Advertising agents, sales worker	.07	.08	.07	.04	.08	.20	.00	.00	.00
Other sales workers	6.59	6.66	8.22	7.31	7.23	7.91	4.72	4.59	4.78
Clerical workers	20.24	19.36	19.81	19.70	18.53	18.45	16.46	15.99	16.54
Stenographers, typists, secretaries	6.92	6.48	7.00	5.76	5.54	6.56	6.11	5.78	6.19
Legal secretaries	.01	.01	.00	.04	.03	.03	.04	.04	.06
Medical secretaries	.00	.00	.00	.00	.00	.00	.02	.01	.00
Other secretaries	5.16	5.10	5.87	4.20	4.33	5.62	4.75	4.68	5.16
Stenographers	.16	.07	.01	.15	.06	.01	.25	.19	.27
Typists	1.58	1.30	1.12	1.37	1.12	.90	1.05	.86	.70
Office machine operators	1.49	1.57	1.10	1.59	1.58	.99	.89	1.00	.72
Bookkeeping and billing	.07	.04	.03	.13	.04	.01	.07	.05	.11
Calculating	.11	.07	.03	.10	.05	.01	.03	.02	.03
Computer and peripheral equip	.36	.75	.58	.36	.77	.62	.29	.60	.46
Duplicating	.06	.05	.06	.10	.09	.09	.04	.02	.00
Keypunch	.82	.62	.36	.82	.59	.26	.40	.28	.11
Tabulating	.03	.01	.00	.03	.01	.00	.01	.00	.00
Other office machine operators	.05	.04	.04	.06	.03	.00	.06	.03	.00
Other clerical workers	11.83	11.31	11.70	12.36	11.42	10.90	9.46	9.21	9.64
Billing clerks	.32	.31	.28	.43	.48	.67	.54	.56	.66
Bookkeepers	2.07	1.94	1.76	2.98	2.78	2.59	2.80	2.65	2.42
Cashiers	.09	.11	.17	.06	.04	.01	.05	.03	.01
Clerical supervisors, other	.41	.47	.55	.21	.24	.25	.28	.32	.32
Collectors, bill and account	.02	.02	.03	.03	.02	.00	.01	.01	.00
Counter clerks, exc food	.62	.63	.73	.65	.59	.40	.16	.20	.34
Dispatchers, starters, vehicle	.01	.02	.02	.03	.03	.06	.05	.05	.08
Estimators, investigators, other	.28	.32	.31	.27	.28	.18	.30	.38	.43
Expeditors, production controls	.61	.65	.85	.50	.47	.36	.52	.56	.72
File clerks	.45	.37	.39	.22	.19	.20	.12	.11	.14
Library attendants, assistants	.04	.04	.01	.07	.06	.01	.04	.03	.01
Mail handlers, exc post office	.45	.40	.31	.20	.19	.21	.24	.24	.28
Messengers and office helpers	.12	.10	.04	.04	.04	.03	.04	.04	.03
Payroll, timekeeping clerks	.38	.38	.25	.34	.41	.53	.32	.34	.31
Receptionists	.34	.32	.31	.49	.41	.29	.28	.27	.28
Shipping and receiving clerks	2.13	1.86	1.81	3.05	2.77	3.00	1.02	.93	1.07
Statistical clerks	.48	.52	.51	.41	.43	.40	.30	.33	.36
Stock clerks and store keepers	1.25	1.11	1.20	1.05	.79	.39	.71	.66	.82
Telephone operators	.23	.13	.06	.21	.07	.00	.31	.22	.22
Weighers	.23	.24	.33	.11	.11	.13	.55	.57	.69
Misc clerical workers	1.33	1.39	1.79	1.02	1.04	1.19	.83	.71	.47
Crafts and kindred workers	9.86	9.97	9.76	9.23	9.95	11.92	16.82	17.62	20.58

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Soaps and cosmetics			Paints and varnishes			Agricultural chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	1.56	1.45	1.55	1.70	1.71	2.08	3.80	3.67	4.61
Carpenters and apprentices	.23	.20	.11	.07	.04	.01	.48	.48	.49
Brick,stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.04	.04	.04
Bulldozer operators	.27	.30	.64	.03	.03	.02	.88	.86	1.36
Electricians and apprentices	.57	.54	.46	.28	.31	.41	.77	.78	.86
Excavating,grading mach operatr	.02	.02	.02	.05	.04	.02	.97	.90	1.21
Floor layers, exc tile setters	.01	.00	.01	.01	.01	.01	.01	.01	.00
Painters and apprentices	.07	.06	.06	.99	.99	1.05	.16	.16	.17
Plumbers,pipefitters,aprentices	.39	.32	.24	.25	.29	.55	.49	.44	.49
Structural metal craft workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Tile setters	.00	.00	.00	.02	.01	.01	.00	.00	.00
Blue collar worker supervisors	3.69	3.62	2.75	4.26	4.56	4.89	5.68	6.34	7.72
Metalworkg craft wktrs,exc meca	1.14	1.14	1.35	.73	.78	1.07	1.13	1.26	1.86
Boilermakers	.04	.03	.01	.00	.00	.00	.02	.01	.01
Job and die setters, metal	.01	.01	.02	.05	.04	.02	.01	.01	.00
Machinists and apprentices	.80	.85	1.11	.29	.31	.39	.68	.78	1.24
Millwrights	.13	.12	.08	.27	.29	.34	.32	.36	.45
Pattern and moldmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.07	.06	.06	.04	.06	.15	.09	.09	.15
Tool and diemakers, apprentices	.08	.06	.06	.07	.08	.17	.01	.01	.01
Mechanics,repairers,installers	2.72	3.11	3.58	1.67	2.00	2.71	4.34	4.69	4.46
Air cond, heating, refrig meca	.02	.03	.02	.01	.02	.02	.08	.10	.10
Auto mechanics and apprentices	.09	.08	.06	.06	.04	.01	.37	.33	.28
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.02	.02	.02
Heavy equip mech, incl diesel	2.40	2.77	3.20	1.48	1.79	2.39	3.21	3.56	3.33
Household appliance mechanics	.01	.01	.01	.01	.01	.01	.04	.05	.06
Radio, television repairers	.01	.01	.01	.00	.00	.00	.03	.02	.01
Railroad, car shop repairers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Other mechanics and apprentices	.18	.21	.27	.10	.14	.29	.57	.61	.65
Printing trade crafts workers	.22	.20	.11	.40	.47	.66	.22	.22	.17
Compositors and typesetters	.14	.11	.05	.26	.28	.33	.20	.20	.17
Press,plate printers,aprentices	.08	.08	.06	.14	.19	.34	.02	.01	.00
Transport,public util craft wkrs	.03	.03	.03	.00	.00	.00	.16	.10	.01
Elec pwr line instaler,repairer	.00	.00	.00	.00	.00	.00	.06	.04	.00
Locomotive engineers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Locomotive engineers' helpers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Power station operators	.01	.01	.01	.00	.00	.00	.08	.05	.00
Telephone installers,repairers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Other crafts, kindred workers	.50	.43	.39	.47	.44	.51	1.49	1.35	1.75
Crane,derrick,hoist operator	.03	.02	.00	.08	.07	.16	.55	.44	.53
Decorators, window dressers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Dental laboratory technicians	.02	.01	.00	.00	.00	.00	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.03	.02	.00	.00	.00	.00
Glaziers	.00	.00	.00	.03	.02	.00	.00	.00	.00
Inspectors, other	.03	.03	.01	.02	.02	.02	.10	.09	.04
Jewelers and watchmakers	.00	.00	.00	.02	.03	.05	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.02	.01	.00	.00	.00	.00
Stationary engineers	.39	.33	.32	.25	.22	.23	.72	.69	.99
Other crafts workers	.03	.03	.05	.03	.03	.05	.12	.13	.18
Operatives	33.69	32.94	32.55	31.93	31.56	31.37	27.52	26.12	23.07
Operatives,except transport	30.88	30.25	30.44	28.20	27.51	25.41	19.07	18.06	14.51
Semiskilled metalworking	.51	.47	.45	.44	.39	.45	1.37	1.35	1.49
Furnace tendrs,smeltrs,pourers	.01	.01	.01	.00	.00	.00	.06	.06	.09
Grinding machine operatives	.01	.01	.01	.08	.07	.09	.03	.02	.03
Lathe,milling mach operatives	.07	.05	.04	.09	.05	.03	.05	.03	.03
Metal platers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other precisicn mach operators	.04	.04	.05	.01	.01	.00	.00	.00	.00
Punch,stamping press operatives	.08	.06	.05	.09	.06	.02	.06	.05	.07
Solderers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.29	.29	.28	.17	.20	.31	1.17	1.18	1.28
Semiskilled packing, inspecting	12.03	10.98	10.96	3.22	3.12	3.59	1.83	1.69	1.58
Checkers, examiners, mfg	2.22	2.15	2.33	1.05	1.10	1.40	.51	.52	.58
Graders and scrtrs, mfg	.06	.04	.00	.05	.05	.07	.04	.04	.03
Packer,wrapper,exc meat,prodc	9.75	8.79	8.64	2.12	1.97	2.13	1.28	1.14	.98

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Soaps and cosmetics			Paints and varnishes			Agricultural chemicals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	18.33	18.81	19.03	24.55	24.00	21.37	15.87	15.02	11.44
Asbestos,insulation workers	.02	.02	.00	.01	.01	.00	.06	.06	.00
Assemblers	5.22	5.62	6.93	.79	.86	1.05	.25	.26	.24
Blasters	.01	.01	.00	.00	.00	.00	.04	.03	.00
Bottling,canning operatives	.69	.66	.59	1.10	1.08	1.02	.08	.10	.18
Cutting operatives, other	.16	.15	.11	.12	.12	.11	.06	.07	.08
Drillers, earth	.00	.00	.00	.00	.00	.00	.03	.02	.01
Dyers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.12	.10	.05	.11	.08	.03	.03	.03	.05
Garage wrkr,gas station atten	.01	.01	.01	.00	.00	.00	.02	.02	.02
Laundry,dry cleang oprs,other	.01	.01	.01	.01	.01	.01	.00	.00	.00
Meat cutters and butchers	.00	.00	.00	.00	.00	.00	.05	.03	.00
Mixing operatives	2.23	2.22	2.26	10.04	10.04	10.28	3.48	3.44	3.39
Oilers,greasers,exc automobiles	.09	.07	.00	.06	.05	.02	.24	.21	.16
Painters, mfg articles	.21	.18	.23	1.63	1.30	1.00	.22	.18	.20
Photographic process workers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Riveters and fasteners	.03	.04	.08	.00	.00	.00	.00	.00	.00
Sawyers	.00	.00	.00	.03	.02	.00	.00	.00	.00
Sewers and stitchers	.11	.08	.06	.07	.08	.16	.73	.62	.73
Furnace tendr,stokr,exc metal	.22	.12	.04	.26	.16	.10	.42	.29	.31
Winding operatives, other	.02	.03	.08	.03	.02	.00	.03	.02	.00
Miscellaneous machine operatives	5.67	5.68	4.97	7.95	7.78	5.95	7.33	6.97	4.74
Other operatives,exc transport	3.46	3.78	3.61	2.36	2.40	1.65	2.82	2.68	1.34
Transport equipment operatives	2.81	2.69	2.11	3.73	4.05	5.97	8.46	8.06	8.56
Delivery and route workers	.23	.18	.13	.52	.53	.87	1.09	.86	.62
Fork lift,tow motor operatives	1.62	1.72	1.41	1.50	1.62	1.44	1.81	1.84	1.27
Rail vehicle operators, other	.00	.00	.00	.00	.00	.00	.02	.02	.02
Parking attendants	.01	.01	.00	.00	.00	.00	.01	.01	.00
Railroad switch operators	.04	.04	.08	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.08	.05	.00	.07	.07	.04	.00	.00	.00
Truck drivers	.84	.70	.48	1.64	1.84	3.62	5.53	5.33	6.66
Service workers	2.77	2.60	2.31	2.18	1.79	.94	2.84	2.64	2.32
Cleaning service workers	1.75	1.60	1.34	1.53	1.24	.58	2.00	1.83	1.58
Bldg interior cleaners, other	.36	.38	.41	.22	.19	.08	.25	.27	.28
Janitors and sextons	1.39	1.22	.93	1.31	1.05	.50	1.75	1.57	1.30
Food service wrkrs	.18	.13	.08	.15	.13	.09	.08	.08	.08
Cooks,exc private households	.05	.03	.01	.05	.03	.01	.02	.02	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.04	.04	.01	.05	.05	.06	.02	.02	.01
Waiters	.03	.02	.01	.01	.01	.01	.01	.01	.01
Other food serv wrks,exc privt	.04	.04	.05	.05	.03	.01	.03	.03	.05
Health service workers	.01	.00	.00	.01	.01	.04	.02	.02	.04
Nursing aides and orderlies	.00	.00	.00	.01	.01	.04	.02	.02	.04
Personal service workers	.30	.36	.38	.01	.01	.01	.01	.01	.01
Attendants,personal serv,other	.04	.04	.07	.00	.00	.00	.00	.00	.00
Elevator operators	.03	.02	.02	.01	.01	.01	.01	.01	.01
Hairdressers and cosmetologists	.23	.29	.29	.00	.00	.00	.00	.00	.00
Protective service workers	.53	.52	.51	.48	.41	.22	.73	.70	.62
Guards	.53	.52	.51	.48	.41	.22	.73	.70	.62
Laborers, except farm	4.62	4.43	4.14	3.76	3.38	2.43	8.18	7.55	6.52
Animal caretakers, exc farm	.01	.02	.03	.00	.00	.00	.00	.00	.00
Carpenter helpers	.03	.02	.01	.00	.00	.00	.06	.02	.01
Constr labr,exc carpenter helpr	.04	.04	.06	.14	.10	.04	.42	.39	.45
Freight and material handlers	2.41	2.24	2.06	1.19	1.15	1.22	4.67	4.29	3.75
Gardens,groundkeepers,exc farm	.03	.04	.06	.03	.03	.03	.11	.12	.17
Stock handlers	.96	.99	.81	1.25	1.15	.58	1.58	1.60	1.17
Vehicle washers,equip cleaners	.31	.32	.30	.33	.27	.09	.11	.12	.18
Warehouse labcrs, other	.59	.55	.57	.60	.51	.37	.73	.68	.69
Other laborers	.23	.21	.25	.22	.17	.10	.51	.33	.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc chemicals			Petroleum and coal products			Petroleum refining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	14.63	14.92	13.84	20.36	20.67	18.26	23.08	23.78	23.15
Engineers, technical	3.26	3.00	2.54	5.17	4.73	4.52	5.90	5.49	5.81
Aeronautical	.03	.02	.00	.00	.00	.00	.00	.00	.00
Chemical	1.04	1.58	1.43	2.50	2.40	2.22	3.00	2.95	3.15
Civil	.07	.05	.05	.38	.27	.20	.44	.32	.30
Electrical	.16	.15	.12	.27	.24	.22	.31	.27	.22
Industrial	.53	.52	.39	.36	.36	.35	.31	.30	.31
Mechanical	.40	.34	.29	.69	.62	.64	.77	.69	.72
Metallurgical	.01	.01	.00	.05	.05	.05	.04	.05	.08
Petroleum	.01	.01	.00	.55	.49	.52	.67	.61	.77
Sales	.20	.15	.12	.11	.08	.08	.08	.06	.04
Other engineers	.22	.18	.14	.26	.22	.23	.28	.24	.23
Life and physical scientists	2.68	2.64	2.32	2.20	2.05	1.96	2.34	2.20	2.33
Agricultural	.01	.01	.00	.01	.01	.00	.01	.01	.00
Biological	.03	.05	.05	.01	.01	.01	.01	.02	.01
Chemists	2.62	2.56	2.25	1.66	1.60	1.50	1.69	1.64	1.67
Geologists	.00	.00	.00	.44	.36	.41	.53	.44	.58
Physicists and astronomers	.03	.03	.02	.05	.05	.03	.06	.06	.05
Other life, physical scientists	.00	.00	.00	.02	.02	.01	.03	.03	.02
Mathematical specialists	.05	.05	.06	.10	.10	.07	.13	.13	.10
Actuaries	.00	.00	.00	.00	.01	.01	.01	.01	.01
Mathematicians	.02	.02	.01	.04	.04	.03	.05	.06	.05
Statisticians	.03	.03	.05	.06	.05	.03	.07	.06	.04
Engineering, science technicians	5.53	5.78	6.14	5.62	5.44	5.31	6.36	6.23	6.76
Agricultural, biol, exc health	.01	.01	.01	.01	.01	.00	.01	.01	.01
Chemical technicians	4.06	4.29	4.54	4.04	3.99	4.03	4.59	4.59	5.21
Drafters	.35	.29	.31	.57	.47	.47	.65	.54	.60
Electrical and electronic	.12	.14	.21	.12	.11	.05	.13	.12	.07
Industrial engineering	.16	.21	.24	.08	.10	.10	.05	.06	.05
Mechanical engineering	.00	.00	.00	.02	.02	.01	.02	.03	.02
Surveyors	.00	.00	.00	.05	.05	.07	.06	.06	.10
Other engineering, science tech	.84	.84	.84	.74	.70	.57	.85	.82	.71
Medical workers, exc technicians	.11	.06	.01	.11	.09	.04	.13	.10	.06
Physicians and osteopaths	.01	.00	.00	.01	.01	.00	.02	.01	.00
Registered nurses	.10	.06	.01	.10	.08	.04	.11	.09	.06
Health technologists, technicians	.04	.05	.08	.04	.05	.02	.04	.05	.02
Clinical lab technologists, tech	.03	.05	.07	.01	.01	.01	.01	.01	.01
Other health technicians	.01	.01	.01	.02	.03	.01	.03	.04	.02
Technicians, except health	.08	.11	.12	.12	.16	.16	.15	.19	.23
Airplane pilots	.02	.02	.02	.05	.06	.06	.06	.08	.09
Radio operators	.03	.03	.02	.02	.02	.01	.02	.02	.02
Tool programmers, numerical	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other technicians except health	.02	.04	.07	.05	.07	.08	.06	.08	.12
Computer specialists	.24	.29	.26	1.16	1.38	1.29	1.39	1.69	1.80
Computer programmers	.15	.17	.16	.67	.72	.70	.81	.89	.98
Computer systems analysts	.06	.08	.09	.44	.58	.55	.52	.71	.77
Other computer specialists	.02	.04	.02	.05	.08	.04	.05	.09	.05
Social scientists	.17	.28	.28	.68	.93	.63	.80	1.12	.77
Economists	.17	.28	.28	.66	.91	.61	.78	1.09	.75
Psychologists	.00	.00	.00	.00	.01	.01	.01	.02	.02
Urban and regional planners	.00	.00	.00	.01	.01	.00	.02	.01	.00
Teachers	.03	.03	.02	.02	.02	.01	.02	.02	.01
Adult education	.03	.03	.02	.02	.02	.01	.02	.02	.01
Writers, artists, entertainers	.27	.34	.35	.46	.52	.46	.51	.58	.54
Authors	.00	.00	.00	.01	.01	.00	.01	.01	.00
Designers	.05	.07	.08	.10	.11	.10	.10	.13	.14
Editors and reporters	.03	.02	.01	.06	.06	.05	.08	.08	.07
Painters and sculptors	.04	.07	.11	.04	.03	.00	.05	.04	.00
Photographers	.03	.02	.01	.04	.04	.05	.05	.05	.07
Public relations specialists	.07	.09	.08	.17	.22	.23	.18	.22	.21
Other writers, artists, entertain	.04	.06	.07	.04	.05	.04	.05	.06	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc chemicals			Petroleum and coal products			Petroleum refining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.18	2.29	1.65	4.69	5.21	3.82	5.30	5.98	4.72
Accountants	1.03	1.13	.96	2.73	2.96	2.43	3.03	3.33	2.95
Home management advisors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lawyers	.09	.09	.00	.43	.74	.48	.52	.92	.65
Librarians	.04	.05	.07	.06	.04	.01	.07	.05	.01
Operations and systems research	.20	.25	.15	.38	.50	.38	.43	.57	.46
Personnel, labor relations wkr	.44	.45	.27	.69	.69	.43	.80	.82	.56
Other research workers	.36	.29	.16	.40	.28	.10	.44	.30	.09
Recreation workers	.01	.02	.03	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	8.89	10.42	10.68	7.53	8.50	9.62	6.65	7.27	7.15
Buyers, sales, loan managers	1.71	1.74	2.12	1.60	1.38	1.24	1.50	1.28	1.08
Bank, financial managers	.14	.15	.17	.19	.17	.10	.21	.19	.12
Credit managers	.08	.05	.04	.21	.11	.08	.20	.10	.06
Purchasing agents, buyers, other	.53	.51	.71	.65	.53	.38	.64	.51	.38
Sales manager, exc retail trade	.96	1.03	1.19	.56	.58	.68	.46	.47	.52
Other managers, officials, propts	7.18	8.68	8.57	5.93	7.12	8.38	5.15	6.00	6.07
Mgrs, superintendents, building	.03	.05	.10	.01	.01	.02	.02	.02	.02
Office managers, other	.46	.51	.62	.39	.39	.46	.27	.26	.25
Officers, pilots, pursers, ship	.01	.01	.00	.05	.05	.04	.06	.05	.06
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.00	.01	.01	.01
Other managers, administrators	6.67	8.10	7.84	5.47	6.66	7.86	4.79	5.65	5.74
Sales workers	4.10	4.21	4.66	2.01	1.95	2.27	1.45	1.31	1.03
Advertising agents, sales worker	.00	.00	.00	.01	.01	.01	.01	.02	.01
Other sales workers	4.10	4.21	4.66	1.99	1.93	2.27	1.44	1.29	1.02
Clerical workers	13.95	13.52	14.36	17.77	16.82	15.08	18.09	17.22	15.39
Stenographers, typists, secretaries	5.35	5.07	5.38	5.85	5.38	5.56	5.84	5.33	5.45
Legal secretaries	.02	.02	.04	.10	.08	.08	.13	.11	.12
Medical secretaries	.02	.01	.00	.01	.00	.00	.01	.00	.00
Other secretaries	3.97	4.01	4.52	4.35	4.26	4.71	4.27	4.17	4.54
Stenographers	.17	.09	.04	.39	.20	.05	.44	.23	.07
Typists	1.17	.94	.78	1.01	.83	.72	1.00	.83	.72
Office machine operators	.67	.77	.73	1.98	2.17	1.31	2.24	2.52	1.67
Bookkeeping and billing	.04	.03	.06	.11	.05	.03	.12	.06	.04
Calculating	.05	.04	.07	.17	.09	.03	.19	.11	.04
Computer and peripheral equip	.19	.37	.32	.60	1.25	.90	.71	1.49	1.16
Duplicating	.03	.04	.07	.04	.02	.00	.04	.02	.00
Key punch	.28	.23	.16	.94	.67	.30	1.02	.73	.35
Tabulating	.02	.01	.00	.03	.01	.00	.04	.01	.00
Other office machine operators	.05	.05	.06	.09	.09	.06	.12	.11	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc chemicals			Petroleum and coal products			Petroleum refining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	7.93	7.68	8.24	9.94	9.28	8.22	10.01	9.37	8.27
Billing clerks	.26	.30	.45	.27	.28	.36	.23	.24	.29
Bookkeepers	1.35	1.28	1.16	2.06	1.96	1.90	2.05	1.94	1.88
Cashiers	.02	.02	.00	.08	.08	.06	.10	.10	.08
Clerical supervisors, other	.20	.24	.25	.38	.41	.36	.43	.46	.39
Collectors, bill and account	.02	.01	.00	.07	.05	.00	.07	.05	.00
Counter clerks, exc food	.22	.25	.33	.24	.23	.23	.17	.16	.12
Dispatchers, starters, vehicle	.04	.05	.09	.16	.16	.18	.13	.13	.14
Estimators, investigators, other	.18	.22	.21	.41	.43	.23	.46	.50	.30
Expeditors, production controls	.42	.45	.65	.69	.65	.51	.69	.65	.53
File clerks	.19	.15	.13	.39	.30	.23	.42	.33	.26
Library attendants, assistants	.00	.00	.00	.04	.04	.01	.05	.05	.01
Mail handlers, exc post office	.13	.13	.15	.36	.32	.23	.39	.35	.27
Messengers and office helpers	.02	.01	.01	.05	.05	.05	.06	.06	.07
Payroll, timekeeping clerks	.43	.42	.28	.42	.44	.37	.38	.39	.32
Real estate appraisers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Receptionists	.29	.28	.29	.23	.18	.08	.25	.20	.10
Shipping and receiving clerks	1.52	1.33	1.13	.63	.61	.81	.42	.41	.56
Statistical clerks	.21	.24	.29	.54	.53	.36	.61	.60	.40
Stock clerks and store keepers	.85	.78	.98	.61	.44	.19	.58	.43	.22
Telephone operators	.32	.18	.09	.24	.15	.11	.25	.15	.08
Weighers	.57	.62	.83	.05	.05	.03	.04	.04	.03
Misc clerical workers	.70	.75	.94	2.00	1.93	1.92	2.20	2.13	2.22
Crafts and kindred workers	15.47	14.64	12.63	20.24	20.27	21.78	21.31	21.33	23.69
Construction crafts workers	2.65	2.24	1.83	4.88	4.53	4.59	5.36	5.03	5.54
Carpenters and apprentices	.54	.40	.12	.74	.70	.58	.82	.78	.59
Brick, stonemasons, apprentices	.06	.06	.07	.08	.06	.02	.08	.06	.03
Bulldozer operators	.13	.14	.29	.10	.08	.14	.06	.04	.01
Cement and concrete finishers	.01	.01	.00	.02	.03	.06	.03	.04	.09
Electricians and apprentices	.81	.72	.55	1.05	1.03	.97	1.13	1.14	1.22
Excavating, grading mach operatr	.10	.08	.09	.24	.20	.20	.11	.09	.07
Floor layers, exc tile setters	.02	.01	.00	.00	.00	.00	.00	.00	.00
Painters and apprentices	.18	.19	.28	.23	.19	.10	.25	.21	.12
Plumbers, pipefitters, apprentices	.78	.62	.43	2.35	2.18	2.48	2.81	2.66	3.40
Roofers and slaters	.00	.00	.00	.01	.02	.02	.00	.00	.00
Structural metal craft workers	.02	.01	.01	.05	.02	.00	.06	.03	.00
Tile setters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Blue collar worker supervisors	5.63	5.55	4.36	5.44	5.89	6.68	5.36	5.77	6.46
Metalworkg craft wrkrs, exc meca	1.69	1.51	1.22	2.33	2.39	3.00	2.40	2.49	3.38
Blacksmiths	.01	.01	.00	.01	.01	.00	.01	.01	.00
Boilermakers	.11	.10	.09	.68	.60	.53	.83	.75	.78
Heat treaters, annealers	.05	.04	.01	.00	.00	.00	.00	.00	.00
Job and die setters, metal	.03	.03	.04	.02	.01	.01	.01	.01	.01
Machinists and apprentices	.90	.77	.44	1.30	1.43	1.95	1.35	1.52	2.33
Millwrights	.35	.39	.45	.20	.22	.27	.09	.09	.09
Sheetmetal workers, apprentices	.11	.09	.09	.07	.07	.15	.07	.06	.08
Tool and diemakers, apprentices	.12	.10	.10	.06	.06	.10	.04	.05	.09
Mechanics, repairers, installers	3.81	4.19	4.68	4.22	4.71	5.50	4.31	4.80	5.74
Air cond, heating, refrig mech	.12	.14	.14	.17	.24	.29	.19	.27	.31
Aircraft mechanics	.01	.01	.01	.01	.01	.01	.01	.01	.01
Auto body repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.31	.28	.27	.47	.46	.57	.47	.45	.58
Data processing mach repairers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Farm implement mechanics	.00	.00	.00	.01	.01	.01	.01	.01	.01
Heavy equip mech, incl diesel	2.87	3.26	3.05	2.26	2.66	3.39	2.09	2.45	3.11
Household appliance mechanics	.02	.03	.04	.08	.08	.05	.08	.08	.06
Office machine repairers	.01	.01	.01	.02	.02	.05	.02	.02	.07
Radio, television repairers	.00	.00	.00	.03	.03	.03	.03	.02	.02
Railroad, car shop repairers	.02	.02	.03	.02	.02	.03	.02	.02	.04
Other mechanics and apprentices	.45	.45	.52	1.15	1.18	1.07	1.39	1.46	1.51
Printing trade crafts workers	.25	.21	.07	.12	.13	.11	.13	.14	.16
Compositors and typesetters	.12	.09	.00	.06	.06	.06	.06	.06	.08
Photoengravers, lithographers	.05	.04	.00	.01	.01	.00	.00	.00	.00
Press, plate printers, apprentices	.08	.09	.07	.05	.06	.06	.07	.07	.08
Transport, public util craft wrks	.14	.11	.04	.11	.10	.05	.14	.13	.08
Elec pwr line installer, repairer	.01	.01	.01	.01	.01	.01	.01	.01	.01
Locomotive engineers	.03	.04	.02	.01	.01	.01	.01	.02	.01
Power station operators	.08	.05	.00	.08	.07	.04	.09	.09	.06
Telephone installers, repairers	.01	.01	.01	.02	.01	.00	.02	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc chemicals			Petroleum and coal products			Petroleum refining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.31	.83	.44	3.13	2.53	1.84	3.61	2.98	2.35
Bakers	.02	.02	.00	.01	.01	.00	.01	.01	.00
Cabinetmakers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.33	.22	.15	.48	.40	.57	.47	.39	.56
Inspectors, other	.12	.11	.07	.15	.16	.15	.18	.20	.21
Sign painters and letterers	.01	.01	.00	.00	.00	.00	.01	.00	.00
Stationary engineers	.71	.35	.03	2.17	1.71	1.01	2.55	2.05	1.40
Other crafts workers	.10	.11	.19	.32	.26	.12	.39	.33	.17
Operatives	34.13	33.90	34.88	25.74	26.17	28.27	23.82	24.21	25.75
Operatives,except transport	29.63	29.53	30.57	21.03	21.49	21.87	20.31	21.04	22.65
Semiskilled metalworking	1.40	1.35	1.49	1.55	1.52	1.66	1.67	1.64	1.85
Drill press operatives	.06	.05	.06	.04	.02	.01	.04	.03	.01
Furnace tendrs,smelters,pourers	.06	.07	.09	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.04	.04	.07	.02	.01	.01	.01	.01	.01
Lathe,milling mach operatives	.15	.11	.12	.09	.06	.04	.09	.06	.05
Metal platers	.08	.09	.08	.00	.00	.00	.00	.00	.00
Other precision mach operators	.06	.05	.07	.02	.01	.00	.02	.01	.00
Punch,stamping press operatives	.11	.11	.17	.03	.02	.01	.02	.02	.01
Solderers	.04	.03	.00	.00	.00	.00	.01	.00	.00
Welders and flamecutters	.80	.80	.83	1.36	1.40	1.60	1.49	1.52	1.78
Semiskilled textile operatives	.09	.10	.18	.00	.00	.00	.00	.00	.00
Spinners, twisters, winders	.03	.04	.08	.00	.00	.00	.00	.00	.00
Other textile operatives	.05	.06	.10	.00	.00	.00	.00	.00	.00
Semiskilled packing, inspecting	4.66	3.88	2.84	2.01	2.13	3.02	1.76	1.90	2.75
Checkers, examiners, mfg	2.11	1.93	1.95	1.38	1.46	1.85	1.46	1.59	2.31
Graders and scrsters, mfg	.06	.05	.00	.03	.04	.06	.02	.02	.03
Packer,wrapper,exc meat,prodc	2.49	1.90	.89	.60	.64	1.11	.28	.29	.41
Other operatives, exc transport	23.49	24.20	26.07	17.47	17.85	17.20	16.88	17.49	18.05
Asbestos,insulation workers	.11	.15	.11	.44	.56	.37	.52	.68	.46
Assemblers	2.51	2.71	3.57	.23	.31	.67	.13	.18	.38
Blasters	.32	.26	.15	.01	.01	.00	.01	.01	.00
Bottling,canning operatives	.24	.27	.37	.13	.13	.13	.10	.09	.07
Surveyors' helpers	.00	.00	.00	.00	.00	.01	.00	.00	.00
Cutting operatives, otaer	.31	.34	.48	.21	.21	.20	.09	.09	.07
Drillers, earth	.04	.03	.01	.02	.02	.01	.01	.01	.01
Dry wall installers, lathers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Dyers	.01	.01	.01	.01	.01	.00	.00	.00	.00
Filer,polisher,sander,buffer	.06	.06	.09	.03	.02	.01	.01	.01	.00
Garage wrkr,gas station atten	.03	.02	.02	.06	.04	.02	.06	.04	.02
Laundry,dry cleang oprs,other	.06	.06	.07	.00	.00	.00	.00	.00	.00
Meat cutters and butchers	.19	.19	.29	.00	.00	.00	.00	.00	.00
Mixing operatives	2.97	3.12	3.67	1.02	1.01	.97	.56	.55	.55
Oilers,greasers,exc automobiles	.10	.07	.01	.23	.20	.22	.19	.14	.05
Painters, mfg articles	.39	.36	.55	.41	.32	.25	.40	.31	.23
Photographic process workers	.04	.04	.02	.05	.05	.05	.06	.06	.07
Riveters and fasteners	.04	.05	.10	.01	.01	.00	.00	.00	.00
Sailors and deckhands	.01	.01	.01	.14	.09	.05	.17	.11	.07
Sawyers	.12	.12	.08	.02	.03	.10	.00	.00	.00
Sewers and stitchers	.21	.17	.18	.02	.01	.03	.00	.00	.00
Furnace tendr,stokr,exc metal	.85	.46	.16	.92	.63	.63	.87	.59	.59
Winding operatives, other	.12	.13	.20	.07	.07	.08	.01	.01	.00
Miscellaneous machine operatives	10.18	10.43	9.86	10.14	10.49	10.00	10.40	10.89	11.35
Other operatives,exc transport	4.60	5.16	6.04	3.31	3.63	3.41	3.29	3.72	4.14
Transport equipment operatives	4.50	4.37	4.31	4.71	4.68	6.40	3.51	3.18	3.10
Boat operators	.00	.00	.00	.01	.01	.00	.01	.01	.00
Delivery and route workers	.45	.38	.30	.61	.58	.84	.59	.55	.75
Fork lift,tow motor operatives	1.55	1.80	1.97	1.04	1.24	1.62	.36	.41	.46
Rail vehicle operators, other	.03	.02	.01	.00	.00	.00	.00	.00	.00
Railroad brake operators	.01	.02	.04	.00	.00	.00	.00	.00	.00
Railroad switch operators	.02	.02	.04	.04	.05	.07	.05	.06	.10
Taxicab drivers, chauffeurs	.17	.10	.01	.09	.05	.00	.10	.06	.00
Truck drivers	2.26	2.03	1.94	2.91	2.75	3.86	2.39	2.09	1.79
Service workers	3.24	2.95	2.75	2.36	1.95	1.18	2.38	1.97	1.26
Cleaning service workers	1.94	1.75	1.50	1.44	1.16	.55	1.41	1.12	.55
Bldg interior cleaners, other	.19	.20	.22	.16	.15	.08	.16	.15	.09
Janitors and sextons	1.75	1.55	1.28	1.28	1.01	.47	1.25	.98	.46

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc chemicals			Petroleum and coal products			Petroleum refining		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.14	.11	.13	.21	.18	.23	.24	.20	.27
Waiters' assistants	.01	.01	.03	.00	.00	.00	.00	.00	.00
Cooks,exc private households	.07	.04	.01	.08	.06	.06	.09	.08	.09
Dishwashers	.00	.00	.00	.02	.01	.00	.02	.01	.01
Food counter,fountain workers	.00	.00	.00	.04	.05	.12	.03	.05	.11
Waiters	.01	.01	.01	.05	.04	.04	.06	.04	.06
Other food serv wkrs,exc privt	.05	.05	.09	.04	.02	.01	.04	.02	.01
Health service workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Health aides, except nursing	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.05	.05	.04	.06	.04	.02	.07	.05	.02
Attendants, personal serv, other	.02	.02	.02	.01	.01	.01	.01	.01	.01
Elevator operators	.01	.01	.01	.03	.02	.00	.04	.02	.01
Housekeepers, exc private homes	.02	.01	.01	.02	.01	.01	.03	.02	.01
Protective service workers	1.11	1.04	1.07	.64	.57	.38	.66	.59	.42
Firefighters	.07	.06	.05	.04	.03	.02	.04	.04	.03
Guards	1.04	.98	1.02	.59	.53	.36	.60	.55	.39
Police and detectives	.00	.00	.00	.01	.01	.00	.01	.01	.00
Laborers, except farm	5.58	5.44	6.22	4.00	3.66	3.53	3.22	2.90	2.58
Carpenter helpers	.02	.02	.01	.12	.11	.22	.08	.08	.13
Constr labr,exc carpenter helpr	.11	.09	.07	.65	.57	.49	.63	.59	.65
Freight and material handlers	2.61	2.56	3.08	1.82	1.72	1.68	1.29	1.18	1.08
Garbage collectors	.00	.00	.00	.02	.02	.03	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.13	.14	.17	.13	.14	.13	.14	.14	.15
Longshore workers, stevedores	.01	.00	.00	.05	.05	.07	.06	.06	.10
Timbercutting, logging workers	.04	.06	.10	.00	.00	.00	.00	.00	.00
Stock handlers	.87	.97	1.05	.17	.17	.09	.10	.10	.05
Teamsters	.03	.02	.01	.00	.00	.00	.00	.00	.00
Vehicle washers,equip cleaners	.19	.21	.28	.28	.23	.08	.33	.27	.10
Warehouse labcrers, other	.45	.40	.34	.41	.37	.46	.32	.25	.12
Other laborers	1.13	.98	1.12	.35	.30	.29	.28	.23	.20

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc petro- leum, coal products			Rubber and misc plastics			Rubber		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	8.97	9.01	7.70	6.86	6.65	5.72	7.78	8.02	7.37
Engineers, technical	2.08	1.89	1.74	2.00	1.78	1.61	2.21	2.09	2.11
Chemical	.39	.34	.21	.34	.30	.25	.40	.40	.41
Civil	.12	.07	.00	.04	.03	.04	.05	.04	.04
Electrical	.10	.13	.24	.10	.08	.06	.12	.11	.09
Industrial	.56	.55	.43	.59	.57	.50	.69	.71	.66
Mechanical	.39	.38	.47	.40	.36	.37	.41	.38	.41
Metallurgical	.08	.06	.00	.00	.00	.00	.00	.00	.00
Petroleum	.04	.03	.00	.00	.00	.00	.00	.00	.00
Sales	.25	.18	.17	.11	.09	.09	.09	.07	.08
Other engineers	.17	.16	.23	.41	.34	.31	.44	.39	.41
Life and physical scientists	1.59	1.47	1.15	.51	.42	.31	.74	.72	.64
Biological	.00	.00	.00	.00	.01	.01	.01	.02	.03
Chemists	1.54	1.43	1.11	.49	.39	.29	.70	.68	.60
Geologists	.06	.04	.04	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other life, physical scientists	.00	.00	.00	.01	.00	.00	.01	.01	.01
Mathematical specialists	.00	.00	.00	.01	.01	.02	.02	.02	.02
Statisticians	.00	.00	.00	.01	.01	.02	.02	.02	.02
Engineering, science technicians	2.50	2.48	2.17	1.86	1.77	1.67	2.01	2.02	2.04
Chemical technicians	1.73	1.73	1.50	.29	.29	.28	.29	.31	.33
Drafters	.23	.19	.19	.34	.30	.33	.30	.26	.30
Electrical and electronic	.07	.05	.01	.03	.03	.02	.02	.02	.03
Industrial engineering	.21	.24	.19	.11	.12	.10	.13	.17	.18
Mechanical engineering	.00	.00	.00	.02	.02	.02	.01	.01	.01
Surveyors	.03	.02	.02	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.24	.24	.26	1.06	1.01	.92	1.25	1.25	1.18
Medical workers, exc technicians	.05	.03	.01	.07	.06	.08	.09	.09	.10
Registered nurses	.05	.03	.01	.06	.06	.08	.09	.09	.10
Health technologists, technicians	.02	.02	.00	.01	.01	.01	.01	.01	.00
Clinical lab technologists, tech	.00	.00	.00	.00	.01	.01	.00	.00	.00
Radiologic technologists, tech	.02	.02	.00	.00	.00	.00	.00	.00	.00
Technicians, except health	.03	.02	.00	.07	.08	.09	.11	.13	.12
Airplane pilots	.00	.00	.00	.01	.01	.01	.02	.03	.03
Tool programmers, numerical	.00	.00	.00	.01	.00	.00	.01	.01	.01
Other technicians except health	.03	.02	.00	.06	.06	.07	.07	.09	.08
Computer specialists	.18	.23	.18	.24	.26	.20	.36	.41	.28
Computer programmers	.08	.09	.08	.17	.17	.12	.26	.28	.18
Computer systems analysts	.07	.10	.08	.06	.07	.06	.08	.11	.07
Other computer specialists	.02	.04	.02	.01	.02	.02	.02	.03	.02
Social scientists	.15	.24	.31	.10	.14	.10	.10	.13	.10
Economists	.15	.24	.31	.10	.14	.10	.10	.13	.10
Teachers	.03	.03	.01	.02	.02	.01	.03	.03	.00
Adult education	.03	.03	.01	.02	.02	.01	.03	.03	.00
Writers, artists, entertainers	.25	.29	.27	.35	.39	.29	.33	.37	.33
Authors	.00	.00	.00	.00	.00	.01	.01	.01	.01
Designers	.08	.07	.00	.19	.22	.15	.14	.16	.15
Editors and reporters	.00	.00	.00	.02	.02	.03	.04	.05	.05
Painters and sculptors	.00	.00	.00	.06	.07	.03	.03	.04	.02
Photographers	.00	.00	.00	.02	.01	.02	.03	.02	.02
Public relations specialists	.17	.23	.27	.04	.05	.04	.06	.07	.06
Other writers, artists, entertain	.00	.00	.00	.02	.02	.01	.02	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc petro- leum, coal products			Rubber and misc plastics			Rubber		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.11	2.30	1.87	1.62	1.72	1.35	1.79	2.00	1.64
Accountants	1.46	1.60	1.32	.92	1.01	.94	1.00	1.14	1.11
Lawyers	.03	.08	.10	.03	.04	.02	.05	.08	.05
Operations and systems research	.16	.22	.20	.20	.23	.13	.27	.33	.20
Personnel, labor relations wkrs	.20	.21	.15	.39	.39	.23	.37	.37	.24
Other research workers	.25	.20	.11	.08	.06	.03	.10	.08	.05
Managers, officials, proprietors	11.23	13.12	14.96	6.29	7.26	7.00	4.76	5.27	5.21
Buyers, sales, loan managers	2.01	1.78	1.60	1.25	1.16	1.09	1.16	1.08	1.14
Bank, financial managers	.07	.07	.05	.15	.16	.15	.14	.15	.17
Credit managers	.25	.14	.13	.08	.04	.03	.12	.06	.04
Purchasing agents, buyers, other	.71	.57	.39	.40	.34	.30	.37	.32	.31
Sales manager, exc retail trade	.99	1.00	1.04	.62	.63	.60	.53	.55	.61
Other managers, officials, proprts	9.22	11.35	13.36	5.04	6.10	5.91	3.61	4.20	4.08
Office managers, other	.89	.88	.92	.27	.28	.26	.19	.17	.11
Officers, pilots, pursers, ship	.02	.01	.00	.00	.00	.00	.00	.00	.00
Restaurant, cafe, bar, managers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other managers, administrators	8.31	10.45	12.44	4.75	5.81	5.64	3.40	4.01	3.96
Sales workers	4.33	4.34	4.96	1.71	1.75	2.16	1.66	1.69	2.04
Advertising agents, sales worker	.00	.00	.00	.01	.02	.02	.01	.01	.01
Other sales workers	4.33	4.34	4.96	1.70	1.74	2.15	1.65	1.68	2.03
Clerical workers	16.44	15.33	14.41	11.74	10.84	10.18	12.02	11.40	10.90
Stenographers, typists, secretaries	5.91	5.55	5.78	3.58	3.42	3.61	3.34	3.21	3.64
Other secretaries	4.70	4.63	5.05	2.78	2.77	3.04	2.52	2.53	3.03
Stenographers	.19	.08	.01	.06	.04	.04	.07	.05	.09
Typists	1.02	.84	.72	.73	.60	.53	.76	.62	.53
Office machine operators	.89	.82	.54	.87	.79	.42	1.14	1.14	.58
Bookkeeping and billing	.09	.03	.01	.07	.03	.01	.06	.02	.01
Calculating	.07	.03	.00	.05	.03	.03	.09	.07	.07
Computer and peripheral equip	.15	.35	.35	.22	.38	.23	.30	.56	.29
Duplicating	.00	.00	.00	.02	.01	.01	.01	.01	.01
Keypunch	.59	.42	.18	.46	.29	.11	.61	.43	.18
Tabulating	.00	.00	.00	.02	.01	.00	.01	.00	.00
Other office machine operators	.00	.00	.00	.05	.05	.03	.05	.05	.03
Other clerical workers	9.64	8.96	8.09	7.28	6.63	6.15	7.54	7.05	6.68
Billing clerks	.42	.44	.52	.20	.20	.24	.23	.24	.30
Bookkeepers	2.11	2.03	1.94	1.17	1.13	1.01	1.01	.95	.85
Cashiers	.00	.00	.00	.04	.04	.04	.05	.04	.03
Clerical supervisors, other	.17	.21	.28	.10	.09	.07	.12	.11	.04
Collectors, bill and account	.05	.04	.00	.00	.00	.00	.00	.00	.00
Counter clerks, exc food	.54	.52	.46	.18	.17	.17	.24	.24	.25
Dispatchers, starters, vehicle	.25	.24	.27	.01	.01	.01	.02	.02	.03
Estimators, investigators, other	.17	.17	.09	.18	.18	.08	.20	.20	.10
Expeditors, production controls	.66	.63	.47	.64	.59	.55	.77	.78	.87
File clerks	.26	.20	.16	.16	.13	.13	.16	.14	.16
Mail handlers, exc post office	.24	.21	.17	.11	.09	.07	.13	.12	.10
Messengers and office helpers	.00	.00	.00	.03	.03	.04	.00	.00	.00
Payroll, timekeeping clerks	.62	.63	.46	.40	.38	.31	.49	.52	.46
Receptionists	.16	.10	.03	.22	.18	.08	.14	.12	.07
Shipping and receiving clerks	1.52	1.35	1.35	1.78	1.68	1.94	1.55	1.42	1.65
Statistical clerks	.24	.27	.29	.26	.26	.24	.38	.41	.39
Stock clerks and store keepers	.72	.47	.13	.87	.67	.48	1.03	.87	.74
Telephone operators	.23	.17	.19	.12	.07	.05	.11	.07	.07
Weighers	.10	.09	.04	.15	.13	.07	.16	.14	.08
Misc clerical workers	1.18	1.18	1.27	.67	.61	.56	.75	.66	.51
Crafts and kindred workers	15.74	16.31	17.66	14.64	15.67	17.45	12.78	13.72	17.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc petroleum, coal products			Rubber and misc plastics			Rubber		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	2.87	2.63	2.54	1.60	1.41	1.37	1.93	1.89	2.20
Carpenters and apprentices	.36	.41	.54	.23	.24	.24	.18	.19	.23
Brick,stonemasons, apprentices	.07	.05	.00	.02	.01	.01	.02	.02	.01
Bulldozer operators	.27	.26	.43	.06	.05	.07	.12	.11	.17
Cement and concrete finishers	.00	.00	.00	.01	.01	.01	.01	.02	.03
Electricians and apprentices	.70	.65	.44	.66	.60	.54	.79	.82	.97
Excavating,grading mach operatr	.80	.64	.49	.01	.01	.01	.01	.01	.00
Floor layers, exc tile setters	.00	.00	.00	.01	.01	.01	.01	.01	.02
Painters and apprentices	.14	.11	.05	.20	.17	.09	.16	.14	.12
Plumbers,pipefitters,aprentices	.43	.41	.51	.39	.31	.37	.61	.56	.65
Roofers and slaters	.07	.08	.06	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.00	.00	.00	.01	.00	.00	.01	.01	.00
Tile setters	.03	.03	.04	.01	.01	.00	.01	.01	.01
Blue collar worker supervisors	5.78	6.34	7.18	5.53	6.23	7.28	4.79	5.32	6.48
Metalworkg craft wrkrs,exc mech	2.02	2.03	2.19	2.97	3.14	3.87	2.03	2.26	3.60
Boilermakers	.08	.05	.00	.01	.01	.01	.02	.02	.02
Forge and hammer operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Job and die setters, metal	.03	.02	.00	.13	.10	.06	.05	.04	.04
Machinists and apprentices	1.06	1.07	1.12	1.87	2.13	2.79	1.28	1.53	2.66
Millwrights	.66	.68	.64	.18	.18	.19	.23	.25	.25
Pattern and mclmakers	.00	.00	.00	.11	.09	.15	.07	.07	.12
Sheetmetal workers, apprentices	.09	.12	.31	.07	.05	.07	.11	.09	.10
Tool and diemakers, apprentices	.11	.09	.11	.60	.57	.60	.26	.25	.40
Mechanics,repairers,installers	3.84	4.37	5.00	3.61	4.08	4.08	3.12	3.48	3.81
Air cond, heating, refrig meca	.09	.15	.23	.02	.03	.03	.03	.04	.04
Aircraft mechanics	.00	.00	.00	.01	.01	.01	.01	.01	.02
Auto mechanics and apprentices	.50	.48	.56	.13	.10	.10	.21	.19	.19
Farm implement mechanics	.00	.00	.00	.02	.01	.01	.01	.01	.01
Heavy equip mech, incl diesel	2.96	3.45	3.99	3.15	3.66	3.69	2.53	2.91	3.31
Household appliance mechanics	.09	.07	.02	.01	.01	.01	.00	.00	.00
Office machine repairers	.00	.00	.00	.00	.00	.01	.01	.01	.02
Radio, television repairers	.04	.03	.03	.02	.02	.03	.01	.01	.02
Railroad, car shop repairers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.13	.14	.14	.24	.23	.20	.31	.29	.21
Printing trade crafts workers	.10	.08	.00	.40	.41	.37	.20	.22	.28
Compositors and typesetters	.07	.05	.00	.22	.26	.28	.12	.13	.13
Enytravers exc photoengravers	.00	.00	.00	.04	.04	.03	.01	.01	.01
Photoengravers, lithographers	.03	.03	.00	.00	.00	.00	.00	.00	.00
Press,plate printers,aprentices	.00	.00	.00	.13	.10	.06	.07	.09	.14
Transport,public util craft wrks	.00	.00	.00	.02	.01	.01	.04	.03	.02
Power station operators	.00	.00	.00	.02	.01	.01	.03	.03	.02
Other crafts, kindred workers	1.13	.87	.75	.51	.39	.47	.67	.51	.68
Cabinetmakers	.00	.00	.00	.02	.03	.02	.00	.00	.00
Crane,derrick,hoist operator	.51	.43	.57	.07	.05	.08	.09	.08	.12
Furniture and wood finishers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.00	.00	.00	.03	.03	.03	.04	.05	.06
Millers, grain, flour, feed	.00	.00	.00	.01	.01	.01	.02	.02	.02
Shoe repairers	.00	.00	.00	.10	.03	.05	.20	.07	.11
Stationary engineers	.59	.42	.17	.20	.17	.20	.21	.20	.27
Upholsterers	.00	.00	.00	.01	.01	.02	.02	.01	.02
Other crafts workers	.03	.02	.01	.06	.05	.05	.08	.07	.06
Operatives	33.78	33.51	33.71	52.22	52.32	53.05	52.96	53.01	52.29
Operatives,except transport	24.04	23.21	20.20	49.92	49.99	50.09	50.21	50.11	48.78
Semiskilled metalworking	1.05	1.05	1.24	1.84	1.47	1.11	1.56	1.29	1.21
Drill press operatives	.03	.02	.00	.21	.14	.06	.13	.10	.08
Grinding machine operatives	.04	.03	.02	.12	.08	.05	.12	.09	.06
Lathe,milling mach operatives	.09	.05	.01	.43	.28	.20	.44	.30	.25
Metal platers	.00	.00	.00	.04	.04	.02	.02	.01	.00
Other precision mach operators	.00	.00	.00	.10	.07	.05	.08	.05	.03
Punch,stamping press operatives	.05	.03	.01	.55	.45	.32	.43	.37	.38
Solderers	.00	.00	.00	.02	.02	.00	.00	.00	.00
Welders and flamecutters	.86	.93	1.20	.37	.38	.43	.35	.36	.42
Semiskilled packing, inspecting	3.05	3.00	3.59	8.99	9.31	12.11	8.14	8.43	11.14
Checkers, examiners, mfg	1.04	.97	.86	5.18	5.27	6.93	5.84	6.13	8.10
Graders and sorters, mfg	.08	.09	.12	.24	.24	.33	.34	.37	.50
Packer,wrapper,exc meat,prodce	1.94	1.94	2.61	3.57	3.81	4.85	1.96	1.93	2.54

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc petro- leum, coal products			Rubber and misc plastics			Rubber		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	19.94	19.17	15.37	39.10	39.21	36.87	40.51	40.39	36.42
Asbestos,insulation workers	.07	.12	.16	.02	.03	.02	.01	.01	.00
Assemblers	.65	.80	1.31	2.99	3.65	4.98	1.83	1.97	2.39
Blasters	.03	.03	.00	.00	.00	.00	.00	.00	.00
Bottling,canning operatives	.24	.25	.27	.05	.06	.06	.03	.03	.02
Surveyors' helpers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.01	.01	.01	.01	.01	.00
Cutting operatives, other	.73	.67	.48	2.45	2.25	2.02	3.01	2.94	2.73
Drillers, earth	.05	.03	.00	.04	.03	.01	.04	.03	.02
Dyers	.05	.03	.01	.04	.05	.06	.03	.03	.03
Filer,polisher,sander,buffer	.11	.08	.02	.36	.32	.23	.29	.28	.32
Garage wrkr,gas station atten	.07	.04	.02	.13	.06	.04	.26	.15	.07
Laundry,dry cleang oprs,other	.00	.00	.00	.01	.01	.01	.01	.01	.01
Mixing operatives	2.94	2.71	1.89	1.19	1.04	.87	1.65	1.60	1.46
Oilers,greasers,exc automobiles	.39	.42	.60	.14	.13	.18	.23	.24	.34
Painters, mfg articles	.46	.37	.28	.82	.72	.66	.60	.48	.38
Photographic process workers	.00	.00	.00	.03	.03	.03	.03	.03	.03
Riveters and fasteners	.03	.03	.00	.05	.05	.03	.04	.03	.02
Sawyers	.12	.16	.33	.21	.22	.20	.12	.13	.17
Sewers and stitchers	.08	.07	.09	.95	.73	.91	1.36	1.20	1.65
Shoemaking machine operatives	.00	.00	.00	.25	.19	.18	.37	.35	.41
Furnace tendr,stokr,exc metal	1.10	.75	.71	.19	.12	.14	.26	.19	.25
Winding operatives, other	.32	.30	.26	.24	.20	.12	.26	.21	.10
Miscellaneous machine operatives	9.06	8.98	7.09	23.09	23.21	21.32	24.50	24.90	22.46
Other operatives,exc transport	3.43	3.31	1.83	5.86	6.13	4.78	5.61	5.59	3.59
Transport equipment operatives	9.73	10.30	13.51	2.30	2.34	2.96	2.75	2.90	3.51
Delivery and route workers	.69	.68	1.04	.16	.14	.20	.17	.16	.25
Fork lift,tow motor operatives	3.91	4.35	4.14	1.16	1.20	1.09	1.41	1.49	1.19
Taxicab drivers, chauffeurs	.04	.03	.01	.08	.06	.05	.14	.14	.10
Truck drivers	5.09	5.24	8.33	.91	.93	1.62	1.03	1.10	1.97
Service workers	2.25	1.88	1.00	2.16	1.88	1.55	2.43	2.20	1.83
Cleaning service workers	1.60	1.29	.55	1.64	1.41	1.01	1.75	1.58	1.24
Bldg interior cleaners, other	.18	.15	.06	.20	.15	.07	.24	.21	.10
Janitors and sextons	1.43	1.14	.49	1.44	1.26	.95	1.51	1.37	1.15
Food service workers	.08	.09	.15	.07	.06	.06	.09	.07	.04
Cooks,exc private households	.00	.00	.00	.02	.02	.02	.02	.02	.01
Food counter,fountain workers	.05	.07	.14	.01	.01	.02	.02	.02	.02
Waiters	.00	.00	.00	.01	.01	.02	.01	.01	.01
Other food serv wkrs,exc privt	.04	.02	.01	.03	.01	.01	.04	.02	.01
Health service workers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.01	.01	.02	.00	.00	.00
Personal service workers	.00	.00	.00	.07	.05	.04	.11	.09	.06
Attendants,personal serv,other	.00	.00	.00	.02	.01	.01	.03	.02	.01
Elevator operators	.00	.00	.00	.04	.03	.02	.07	.06	.04
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.01	.01	.01
Protective service workers	.56	.50	.30	.38	.36	.41	.48	.47	.49
Firefighters	.02	.02	.02	.00	.00	.00	.00	.00	.00
Guards	.54	.48	.28	.37	.36	.41	.47	.46	.49
Police and detectives	.00	.00	.00	.01	.00	.00	.01	.01	.00
Laborers, except farm	7.28	6.51	5.59	4.39	3.62	2.90	5.62	4.69	3.29
Carpenter helpers	.25	.23	.39	.01	.01	.03	.03	.03	.06
Constr labr,exc carpenter help	.75	.52	.15	.07	.06	.04	.06	.05	.04
Freight and material handlers	4.07	3.70	2.99	1.73	1.62	1.51	1.72	1.63	1.58
Garbage collectors	.09	.09	.11	.00	.01	.01	.00	.00	.00
Gardeners,groundkeepers,exc farm	.11	.10	.09	.03	.03	.03	.04	.04	.05
Stock handlers	.48	.43	.18	.54	.50	.32	.60	.60	.44
Vehicle washers,equip cleaners	.09	.08	.03	.36	.28	.12	.52	.43	.16
Warehouse laborers, other	.77	.81	1.19	.33	.33	.45	.38	.37	.44
Other laborers	.66	.56	.48	1.31	.79	.39	2.27	1.54	.52

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc plastics			Leather products			Leather tanning and finishing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	5.95	5.75	4.52	1.69	1.93	1.68	2.04	2.04	2.07
Engineers, technical	1.79	1.57	1.25	.26	.26	.23	.41	.41	.43
Chemical	.28	.24	.13	.00	.00	.00	.00	.00	.00
Civil	.04	.03	.04	.00	.00	.00	.00	.00	.00
Electrical	.07	.06	.04	.00	.00	.00	.00	.00	.00
Industrial	.49	.48	.38	.18	.19	.16	.35	.37	.40
Mechanical	.39	.35	.34	.04	.04	.05	.00	.00	.00
Sales	.14	.10	.10	.01	.01	.00	.00	.00	.00
Other engineers	.39	.32	.24	.03	.02	.02	.05	.04	.04
Life and physical scientists	.29	.22	.07	.05	.06	.06	.38	.36	.40
Chemists	.28	.21	.06	.05	.06	.06	.38	.36	.40
Physicists and astronomers	.01	.01	.01	.00	.00	.01	.00	.00	.00
Mathematical specialists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Statisticians	.01	.01	.02	.00	.00	.00	.00	.00	.00
Engineering, science technicians	1.71	1.61	1.39	.16	.17	.18	.50	.49	.51
Chemical technicians	.29	.28	.24	.01	.01	.03	.05	.05	.04
Drafters	.39	.32	.35	.04	.04	.05	.00	.00	.00
Electrical and electronic	.04	.03	.02	.01	.01	.00	.00	.00	.00
Industrial engineering	.09	.09	.03	.02	.02	.02	.02	.02	.02
Mechanical engineering	.02	.02	.02	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.88	.85	.72	.09	.10	.08	.43	.42	.45
Medical workers, exc technicians	.04	.04	.06	.03	.03	.04	.02	.01	.00
Registered nurses	.04	.04	.06	.03	.03	.04	.02	.01	.00
Health technologists, technicians	.01	.01	.02	.01	.01	.00	.00	.00	.00
Clinical lab technologists, techs	.01	.01	.02	.00	.00	.00	.00	.00	.00
Technicians, except health	.04	.05	.06	.01	.01	.00	.00	.00	.00
Other technicians except health	.04	.05	.06	.00	.00	.00	.00	.00	.00
Computer specialists	.13	.16	.14	.13	.17	.17	.03	.03	.03
Computer programmers	.08	.09	.07	.09	.11	.10	.03	.03	.03
Computer systems analysts	.03	.05	.05	.03	.05	.05	.00	.00	.00
Other computer specialists	.01	.02	.02	.01	.01	.02	.00	.00	.00
Social scientists	.10	.14	.10	.02	.03	.02	.00	.00	.00
Economists	.10	.14	.10	.02	.03	.02	.00	.00	.00
Teachers	.01	.01	.02	.05	.05	.02	.02	.01	.01
Adult education	.01	.01	.02	.05	.05	.02	.02	.01	.01
Writers, artists, entertainers	.38	.40	.25	.38	.47	.43	.06	.06	.04
Designers	.25	.25	.15	.35	.44	.41	.00	.00	.00
Editors and reporters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Painters and sculptors	.08	.09	.03	.01	.01	.01	.00	.00	.00
Photographers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Public relations specialists	.03	.03	.03	.02	.02	.02	.03	.04	.04
Other writers, artists, entertain	.01	.01	.02	.01	.00	.00	.03	.02	.00
Other professional and technical	1.46	1.54	1.14	.60	.68	.53	.64	.65	.65
Accountants	.84	.93	.82	.31	.36	.32	.40	.45	.56
Lawyers	.01	.02	.00	.02	.03	.02	.03	.03	.01
Operations and systems research	.13	.16	.09	.06	.07	.04	.02	.02	.01
Personnel, labor relations wkrs	.41	.40	.23	.18	.20	.14	.11	.11	.07
Other research workers	.07	.04	.01	.02	.02	.01	.09	.04	.01
Managers, officials, proprietors	7.80	8.56	8.30	3.98	4.84	4.64	4.28	5.03	5.77
Buyers, sales, loan managers	1.34	1.22	1.06	.77	.77	.83	.60	.57	.56
Bank, financial managers	.16	.16	.14	.07	.08	.08	.05	.04	.01
Credit managers	.05	.03	.02	.05	.03	.03	.00	.00	.00
Purchasing agents, buyers, other	.42	.35	.28	.35	.33	.35	.27	.23	.20
Sales manager, exc retail trade	.71	.69	.62	.30	.33	.37	.27	.30	.35

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc plastics			Leather products			Leather tanning and finishing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers, officials, proprs	6.46	7.34	7.24	3.21	4.07	3.81	3.69	4.46	5.22
Office managers, other	.35	.35	.37	.29	.31	.33	.34	.35	.43
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other managers, administrators	6.10	6.99	6.86	2.90	3.74	3.47	3.35	4.11	4.78
Sales workers	1.77	1.80	2.26	1.81	1.99	2.36	1.08	1.11	1.43
Advertising agents, sales worker	.01	.02	.03	.01	.01	.02	.00	.00	.00
Other sales workers	1.76	1.78	2.23	1.80	1.97	2.34	1.08	1.11	1.43
Clerical workers	11.46	10.47	9.65	8.83	8.88	9.11	7.74	7.44	8.31
Stenographs, typists, secretaries	3.83	3.55	3.58	1.86	1.80	1.85	1.36	1.30	1.59
Other secretaries	3.05	2.93	3.04	1.26	1.30	1.41	.99	.99	1.22
Stenographers	.06	.03	.01	.06	.03	.00	.05	.03	.01
Typists	.71	.59	.53	.54	.47	.43	.32	.28	.36
Office machine operators	.61	.56	.30	.69	.70	.47	1.06	.96	.56
Bookkeeping and billing	.07	.03	.01	.05	.02	.02	.00	.00	.00
Calculating	.01	.01	.01	.06	.03	.02	.14	.05	.01
Computer and peripheral equip	.13	.27	.19	.12	.27	.23	.11	.25	.23
Duplicating	.02	.01	.01	.02	.01	.01	.00	.00	.00
Keypunch	.30	.19	.05	.34	.26	.13	.28	.19	.06
Tabulating	.02	.01	.00	.01	.00	.00	.00	.00	.00
Other office machine operators	.05	.04	.03	.10	.10	.07	.53	.46	.26
Other clerical workers	7.03	6.36	5.77	6.28	6.38	6.80	5.31	5.19	6.17
Billing clerks	.17	.17	.20	.21	.23	.24	.23	.24	.29
Bookkeepers	1.33	1.24	1.12	1.09	1.13	1.17	1.09	1.09	1.35
Cashiers	.02	.03	.05	.05	.06	.05	.14	.17	.26
Clerical supervisors, other	.07	.08	.09	.09	.10	.09	.05	.06	.07
Counter clerks, exc food	.13	.12	.11	.25	.26	.26	.12	.12	.13
Dispatchers, starters, vehicle	.00	.00	.00	.00	.00	.00	.02	.03	.03
Enumerators and interviewers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Estimators, investigators, other	.16	.16	.07	.07	.08	.06	.03	.03	.01
Expeditors, production controls	.51	.47	.32	.42	.43	.43	.15	.13	.12
File clerks	.15	.12	.11	.20	.17	.23	.11	.07	.02
Mail handlers, exc post office	.08	.07	.05	.10	.09	.09	.07	.06	.07
Messengers and office helpers	.05	.05	.07	.02	.02	.02	.02	.03	.04
Payroll, timekeeping clerks	.30	.30	.20	.60	.68	.63	.66	.73	.81
Receptionists	.29	.23	.09	.18	.18	.16	.14	.13	.12
Shipping and receiving clerks	2.00	1.84	2.16	1.59	1.61	2.09	1.49	1.49	2.19
Statistical clerks	.15	.16	.13	.14	.16	.16	.06	.04	.00
Stock clerks and store keepers	.72	.54	.29	.59	.51	.42	.21	.12	.02
Telephone operators	.13	.08	.04	.10	.06	.05	.14	.05	.01
Weighers	.14	.12	.06	.03	.03	.02	.23	.21	.15
Misc clerical workers	.59	.57	.60	.55	.57	.62	.37	.39	.48
Crafts and kindred workers	16.48	16.95	17.73	13.19	12.48	12.78	11.68	12.07	13.48
Construction crafts workers	1.27	1.10	.77	.29	.28	.23	.61	.63	.76
Carpenters and apprentices	.28	.27	.26	.12	.13	.12	.32	.34	.42
Brick, stonemasons, apprentices	.01	.01	.00	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.53	.45	.22	.11	.09	.06	.25	.27	.34
Excavating, grading mach operat	.01	.01	.02	.00	.00	.00	.00	.00	.00
Floor layers, exc tile setters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Painters and apprentices	.24	.18	.07	.05	.05	.05	.00	.00	.00
Plasterers and apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Plumbers, pipefitters, apprentices	.17	.15	.18	.01	.01	.01	.04	.03	.01
Tile setters	.01	.01	.00	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	6.27	6.83	7.87	4.02	4.58	4.90	5.42	5.92	7.02
Metalworkg craft wrkrs, exc meca	3.90	3.71	4.06	.84	.85	1.02	.95	.95	1.20
Boilermakers	.00	.00	.00	.00	.00	.00	.03	.02	.01
Job and die setters, metal	.20	.14	.07	.03	.02	.01	.00	.00	.00
Machinists and apprentices	2.46	2.52	2.89	.53	.59	.69	.68	.72	.95
Millwrights	.13	.14	.14	.02	.03	.02	.12	.08	.02
Pattern and mldmakers	.14	.11	.17	.17	.14	.21	.00	.00	.00
Sheetmetal workers, apprentices	.03	.03	.05	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.95	.77	.74	.08	.07	.09	.12	.13	.23

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc plastics			Leather products			Leather tanning and finishing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	4.10	4.48	4.28	1.14	1.39	1.58	2.09	2.34	2.55
Air cond, heating, refrig mech	.02	.02	.02	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.06	.05	.03	.01	.01	.01	.00	.00	.00
Farm implement mechanics	.02	.02	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	3.76	4.15	3.97	1.08	1.32	1.53	2.00	2.27	2.53
Household appliance mechanics	.01	.01	.02	.00	.00	.00	.00	.00	.00
Radio, television repairers	.04	.03	.04	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.18	.19	.20	.06	.06	.04	.09	.07	.02
Printing trade crafts workers	.59	.53	.44	.08	.10	.15	.15	.14	.31
Bookbinders	.00	.00	.00	.01	.01	.02	.15	.14	.31
Compositors and typesetters	.32	.34	.38	.04	.05	.06	.00	.00	.00
Engravers exc photoengravers	.07	.07	.05	.00	.00	.00	.00	.00	.00
Press, plate printers, apprentices	.20	.12	.01	.03	.04	.07	.00	.00	.00
Other crafts, kindred workers	.35	.31	.32	6.81	5.27	4.90	2.47	2.09	1.65
Cabinetmakers	.05	.04	.04	.01	.01	.01	.00	.00	.00
Crane, derrick, hoist operator	.04	.04	.05	.01	.01	.01	.12	.09	.11
Furniture and wood finishers	.01	.01	.02	.00	.00	.00	.04	.03	.00
Inspectors, other	.01	.01	.01	.02	.03	.04	.07	.09	.17
Shoe repairers	.00	.00	.00	2.41	.85	1.08	.04	.01	.01
Sign painters and letterers	.01	.01	.00	.01	.01	.00	.00	.00	.00
Stationary engineers	.18	.16	.14	.09	.08	.10	.24	.10	.00
Tailors	.00	.00	.00	.04	.05	.06	.04	.05	.07
Upholsterers	.01	.01	.02	.01	.01	.00	.12	.07	.05
Other crafts workers	.03	.03	.04	4.21	4.24	3.61	1.81	1.65	1.24
Operatives	51.49	51.88	53.61	66.25	65.74	65.91	58.42	59.32	56.92
Operatives, except transport	49.64	49.90	51.05	65.60	65.00	64.94	56.09	56.81	53.26
Semiskilled metalworking	2.11	1.59	1.04	.58	.49	.37	.74	.60	.42
Drill press operatives	.28	.17	.05	.03	.02	.01	.02	.02	.01
Grinding machine operatives	.11	.08	.04	.01	.01	.00	.02	.01	.01
Lathe, milling mach operatives	.42	.27	.17	.06	.04	.03	.10	.05	.01
Metal platers	.06	.06	.03	.05	.04	.01	.28	.21	.06
Other precision mach operators	.13	.09	.06	.02	.01	.00	.03	.02	.00
Punch, stamping press operatives	.68	.50	.27	.28	.23	.15	.03	.02	.01
Solderers	.04	.03	.00	.05	.04	.02	.04	.04	.00
Welders and flamecutters	.39	.39	.43	.09	.10	.14	.22	.23	.33
Semiskilled packing, inspecting	9.83	9.89	12.82	5.74	6.02	7.36	3.63	3.65	4.18
Checkers, examiners, mfg	4.53	4.70	6.07	2.58	2.78	3.45	.82	.87	1.14
Graders and scrtrers, mfg	.14	.15	.21	.46	.48	.41	2.30	2.31	2.53
Packer, wrapper, exc meat, prodce	5.16	5.04	6.55	2.71	2.76	3.51	.51	.48	.51
Other operatives, exc transport	37.70	38.43	37.19	59.27	58.49	57.22	51.72	52.56	48.67
Asbestos, insulation workers	.03	.04	.03	.00	.00	.00	.00	.00	.00
Assemblers	4.13	4.74	6.88	2.41	2.99	4.71	.56	.68	1.14
Bottling, canning operatives	.07	.07	.08	.02	.02	.01	.00	.00	.00
Clothing ironers and pressers	.01	.01	.02	.12	.09	.07	.09	.05	.02
Cutting operatives, other	1.90	1.80	1.50	2.51	2.70	2.83	3.43	3.39	3.50
Drillers, earth	.05	.04	.01	.00	.00	.00	.00	.00	.00
Dyers	.05	.06	.08	.23	.25	.26	1.66	1.71	2.07
Filer, polisher, sander, buffer	.43	.34	.16	.35	.31	.21	.49	.31	.06
Garage wrkr, gas station atten	.01	.01	.01	.00	.00	.01	.00	.00	.00
Laundry, dry cleang oprs, other	.01	.01	.02	.01	.01	.00	.02	.02	.01
Meat cutters and butchers	.00	.00	.00	.06	.05	.07	.00	.00	.00
Mixing operatives	.74	.67	.44	.12	.13	.11	.76	.81	1.04
Oilers, greasers, exc automobiles	.05	.05	.06	.03	.03	.05	.10	.09	.07
Painters, mfg articles	1.04	.87	.87	.36	.33	.38	.26	.17	.00
Photographic process workers	.02	.03	.04	.01	.01	.01	.09	.11	.19
Riveters and fasteners	.07	.06	.03	.85	.88	.90	.04	.03	.00
Sawyers	.30	.28	.21	.09	.09	.10	.05	.06	.10
Sewers and stitchers	.54	.42	.37	15.58	14.21	17.84	1.66	1.50	2.25
Shoemaking machine operatives	.13	.08	.02	20.16	18.02	12.93	.04	.04	.00
Furnace tendr, stokr, exc metal	.12	.08	.06	.21	.15	.16	.65	.44	.42
Winding operatives, other	.22	.20	.14	.03	.03	.01	.04	.04	.00
Miscellaneous machine operatives	21.68	22.10	20.49	8.83	9.71	9.07	18.50	18.62	16.78
Other operatives, exc transport	6.11	6.49	5.66	7.33	8.49	7.48	23.28	24.51	21.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc plastics			Leather products			Leather tanning and finishing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport equipment operatives	1.86	1.97	2.56	.66	.74	.97	2.33	2.52	3.66
Bus drivers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Delivery and route workers	.15	.13	.16	.08	.08	.10	.15	.15	.18
Fork lift,tow motor operatives	.90	1.00	1.02	.22	.27	.28	.94	1.08	1.24
Rail vehicle operators, other	.00	.00	.00	.00	.00	.00	.02	.02	.03
Taxicab drivers, chauffeurs	.01	.01	.01	.02	.02	.02	.05	.04	.01
Truck drivers	.79	.82	1.37	.33	.36	.58	1.15	1.21	2.20
Service workers	1.89	1.67	1.34	1.52	1.44	1.17	2.14	1.92	1.54
Cleaning service workers	1.52	1.30	.84	.95	.89	.64	1.51	1.31	.91
Bldg interior cleaners, other	.15	.12	.04	.14	.15	.11	.23	.20	.07
Janitors and sextons	1.37	1.18	.80	.81	.75	.53	1.27	1.11	.84
Food service workers	.05	.05	.08	.06	.05	.04	.00	.00	.00
Cooks,exc private households	.02	.02	.03	.03	.03	.03	.00	.00	.00
Food counter,fountain workers	.01	.01	.02	.01	.01	.00	.00	.00	.00
Waiters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other food serv wkrs,exc privt	.01	.01	.01	.02	.01	.01	.00	.00	.00
Health service workers	.01	.01	.04	.05	.05	.10	.00	.00	.00
Nursing aides and orderlies	.01	.01	.04	.05	.05	.10	.00	.00	.00
Personal service workers	.03	.03	.03	.10	.10	.08	.09	.07	.03
Attendants, personal serv, other	.01	.01	.01	.01	.01	.01	.00	.00	.00
Elevator operators	.01	.01	.01	.09	.09	.08	.09	.07	.03
Housekeepers, exc private homes	.01	.01	.01	.00	.00	.00	.00	.00	.00
Protective service workers	.28	.29	.35	.35	.35	.30	.54	.54	.59
Guards	.28	.28	.35	.35	.35	.30	.54	.54	.59
Laborers, except farm	3.16	2.92	2.60	2.74	2.71	2.35	12.63	11.07	10.49
Carpenter helpers	.00	.00	.00	.03	.03	.04	.00	.00	.00
Constr labr,exc carpenter helpr	.07	.06	.04	.01	.01	.01	.06	.04	.01
Freight and material handlers	1.74	1.61	1.46	.92	.93	.92	3.21	3.13	3.64
Garbage collectors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.02	.02	.02	.01	.01	.01	.04	.04	.04
Stock handlers	.48	.44	.23	.61	.67	.57	.16	.14	.06
Vehicle washers,equip cleaners	.19	.17	.09	.11	.10	.05	.17	.13	.04
Warehouse labcrers, other	.29	.30	.45	.09	.10	.13	.18	.20	.34
Other laborers	.36	.31	.29	.95	.86	.62	8.82	7.38	6.37

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Footwear, except rubber			All other leather products			Transporta- tion, other public util		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.36	1.57	1.26	2.62	2.86	2.40	6.73	7.44	8.35
Engineers, technical	.21	.21	.18	.36	.33	.29	1.76	1.72	2.15
Aeronautical	.00	.00	.00	.00	.00	.00	.02	.02	.02
Chemical	.00	.00	.00	.00	.00	.00	.02	.02	.02
Civil	.00	.00	.00	.00	.00	.00	.22	.18	.21
Electrical	.01	.00	.00	.00	.00	.00	1.15	1.17	1.57
Industrial	.16	.16	.13	.18	.18	.16	.08	.08	.07
Mechanical	.02	.02	.03	.10	.10	.12	.15	.15	.15
Sales	.00	.00	.00	.04	.02	.01	.02	.01	.01
Other engineers	.02	.02	.02	.04	.03	.01	.10	.09	.09
Life and physical scientists	.02	.02	.03	.06	.06	.07	.07	.08	.08
Atmospheric and space	.00	.00	.00	.00	.00	.00	.01	.02	.02
Biological	.00	.00	.00	.00	.00	.00	.01	.01	.01
Chemists	.02	.02	.02	.06	.06	.07	.04	.04	.03
Geologists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Physicists and astronomers	.00	.00	.01	.00	.00	.00	.00	.00	.00
Mathematical specialists	.00	.00	.00	.00	.00	.00	.04	.03	.03
Statisticians	.00	.00	.00	.00	.00	.00	.03	.03	.02
Engineering, science technicians	.08	.08	.12	.30	.28	.23	.93	1.00	1.14
Chemical technicians	.01	.01	.04	.00	.00	.00	.03	.03	.04
Drafters	.03	.02	.03	.09	.08	.08	.29	.26	.29
Electrical and electronic	.00	.00	.00	.02	.02	.01	.39	.46	.52
Industrial engineering	.01	.01	.01	.05	.06	.04	.01	.01	.01
Surveyors	.00	.00	.00	.00	.00	.00	.08	.08	.08
Other engineering, science tech	.04	.04	.04	.14	.13	.10	.14	.16	.19
Medical workers, exc technicians	.03	.03	.03	.03	.04	.06	.03	.03	.03
Registered nurses	.03	.03	.03	.03	.04	.06	.02	.02	.02
Health technolcigists, technicians	.01	.01	.01	.00	.00	.00	.01	.02	.01
Other health technicians	.01	.01	.01	.00	.00	.00	.01	.02	.01
Technicians, except health	.01	.01	.00	.03	.02	.01	1.08	1.26	1.39
Airplane pilots	.00	.00	.00	.00	.00	.00	.72	.88	1.05
Flight engineers	.00	.00	.00	.00	.00	.00	.13	.08	.10
Radio operators	.00	.00	.00	.00	.00	.00	.16	.19	.13
Tool programers, numerical	.00	.00	.00	.03	.02	.01	.00	.00	.00
Other technicians except health	.01	.01	.00	.00	.00	.00	.07	.10	.12
Computer specialists	.13	.16	.15	.18	.24	.23	.28	.36	.45
Computer programers	.10	.12	.12	.09	.10	.08	.19	.22	.26
Computer systems analysts	.02	.04	.03	.07	.10	.10	.08	.12	.17
Other computer specialists	.00	.00	.00	.02	.04	.05	.01	.02	.02
Social scientists	.02	.03	.02	.04	.04	.02	.07	.11	.11
Economists	.02	.03	.02	.04	.04	.02	.07	.11	.11
Teachers	.08	.08	.02	.00	.00	.00	.07	.04	.02
Adult education	.08	.08	.02	.00	.00	.00	.01	.01	.01
Other teachers	.00	.00	.00	.00	.00	.00	.06	.03	.02
Writers, artists, entertainers	.27	.34	.27	.84	.98	.82	1.06	1.27	1.50
Actors	.00	.00	.00	.00	.00	.00	.01	.02	.02
Authors	.00	.00	.00	.00	.00	.00	.02	.02	.03
Designers	.26	.32	.25	.79	.92	.79	.05	.07	.08
Editors and reporters	.00	.00	.00	.00	.00	.00	.20	.26	.38
Musicians and composers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Painters and sculptors	.00	.00	.00	.02	.03	.02	.03	.03	.02
Photographers	.00	.00	.00	.00	.00	.00	.04	.04	.07
Public relations specialists	.01	.02	.02	.03	.03	.02	.18	.23	.26
Radio and tv announcers	.00	.00	.00	.00	.00	.00	.40	.45	.50
Other writers, artists, entertain	.01	.00	.00	.00	.00	.00	.10	.13	.13

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Footwear, except rubber			All other leather products			Transporta- tion, other public util		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	.53	.61	.43	.79	.87	.69	1.35	1.52	1.44
Accountants	.30	.35	.29	.31	.35	.34	.77	.86	.88
Architects	.00	.00	.00	.00	.00	.00	.01	.01	.01
Foresters and conservationists	.00	.00	.00	.00	.00	.00	.02	.02	.03
Home management advisors	.00	.00	.00	.00	.00	.00	.02	.02	.01
Lawyers	.01	.02	.02	.04	.07	.03	.06	.11	.08
Operations and systems research	.05	.07	.04	.10	.11	.06	.07	.09	.09
Personnel, labor relations wkrs	.16	.16	.09	.30	.32	.25	.36	.39	.32
Other research workers	.01	.01	.00	.04	.02	.01	.02	.02	.01
Managers, officials, proprietors	2.90	3.46	3.02	7.38	8.45	7.51	7.99	9.34	9.15
Buyers, sales, loan managers	.60	.58	.57	1.40	1.32	1.38	.52	.49	.49
Bank, financial managers	.06	.06	.05	.13	.14	.15	.08	.07	.05
Credit managers	.05	.03	.02	.10	.06	.06	.03	.02	.01
Purchasing agents, buyers, other	.30	.28	.28	.54	.49	.51	.19	.16	.15
Sales manager, exc retail trade	.20	.22	.22	.63	.64	.65	.22	.24	.27
Other managers, officials, proprt	2.30	2.88	2.45	5.98	7.13	6.13	7.47	8.85	8.66
Mgrs, superintendents, building	.00	.00	.00	.00	.00	.00	.01	.01	.02
Office managers, other	.25	.27	.25	.41	.42	.46	.46	.47	.50
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.49	.41	.32
Railroad conductors	.00	.00	.00	.00	.00	.00	.80	.63	.61
Restaurant, cafe, bar, managers	.02	.02	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	2.03	2.59	2.18	5.57	6.70	5.68	5.70	7.32	7.20
Sales workers	1.60	1.76	1.93	2.78	2.91	3.38	.95	1.02	1.34
Advertising agents, sales worker	.01	.02	.03	.00	.00	.00	.23	.35	.55
Demonstrators	.00	.00	.00	.00	.00	.00	.01	.01	.02
Other sales workers	1.59	1.74	1.90	2.78	2.91	3.38	.71	.67	.76
Clerical workers	8.23	8.42	8.24	11.18	10.63	10.95	23.00	21.25	20.21
Stenographrs, typists, secretaries	1.71	1.66	1.60	2.55	2.36	2.38	3.54	3.45	3.97
Legal secretaries	.01	.01	.01	.00	.00	.00	.02	.02	.02
Other secretaries	1.11	1.15	1.16	1.88	1.81	1.91	2.07	2.21	2.72
Stenographers	.06	.03	.00	.04	.02	.00	.22	.11	.05
Typists	.54	.48	.42	.63	.53	.46	1.23	1.11	1.19
Office machine operators	.64	.68	.48	.69	.68	.43	.86	.88	.74
Bookkeeping and billing	.05	.03	.02	.04	.02	.00	.07	.03	.03
Calculating	.05	.04	.03	.04	.02	.00	.05	.03	.02
Computer and peripheral equip	.11	.27	.23	.14	.28	.23	.22	.45	.50
Duplicating	.02	.02	.01	.01	.01	.01	.02	.01	.01
Keypunch	.35	.28	.16	.36	.25	.10	.46	.31	.16
Tabulating	.00	.00	.00	.01	.00	.00	.02	.00	.00
Other office machine operators	.05	.05	.03	.10	.10	.09	.04	.03	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Footwear, except rubber			All other leather products			Transportation, other public util		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	5.88	6.08	6.16	7.94	7.59	8.14	18.60	16.93	15.50
Billing clerks	.20	.21	.22	.25	.26	.28	.36	.39	.40
Bookkeepers	.85	.87	.80	1.90	1.81	1.85	1.63	1.60	1.66
Cashiers	.05	.05	.05	.03	.02	.01	.44	.47	.51
Clerical supervisors, other	.09	.10	.09	.09	.10	.11	.46	.49	.50
Collectors, bill and account	.00	.00	.00	.01	.01	.00	.12	.11	.09
Counter clerks,exc food	.23	.25	.24	.36	.36	.33	.24	.24	.26
Dispatchers, starters, vehicle	.00	.00	.00	.00	.00	.00	.60	.63	.59
Estimators, investigators, other	.07	.09	.07	.07	.07	.04	.75	.77	.53
Expeditors, production controllers	.49	.54	.63	.29	.24	.11	.19	.18	.18
File clerks	.18	.16	.17	.26	.24	.38	.34	.29	.32
Mail handlers, exc post office	.09	.09	.08	.11	.11	.10	.19	.18	.16
Messengers and office helpers	.01	.01	.01	.05	.05	.04	.07	.07	.04
Meter readers, utilities	.00	.00	.00	.00	.00	.00	.74	.69	.68
Payroll, timekeeping clerks	.63	.71	.62	.50	.57	.61	.32	.35	.32
Receptionists	.16	.15	.12	.28	.25	.24	.21	.19	.17
Shipping and receiving clerks	1.32	1.33	1.59	2.48	2.39	3.03	.66	.70	.76
Statistical clerks	.16	.18	.19	.12	.13	.15	.85	.87	.79
Stock clerks and store keepers	.62	.56	.47	.64	.53	.41	.53	.38	.25
Telegraph messengers	.00	.00	.00	.00	.00	.00	.05	.04	.01
Telegraph operators	.00	.00	.00	.00	.00	.00	.23	.18	.09
Telephone operators	.10	.07	.07	.08	.03	.00	4.43	2.96	2.21
Ticket, station, express agents	.00	.00	.00	.00	.00	.00	1.87	1.87	1.88
Weighers	.01	.01	.01	.04	.04	.03	.04	.03	.03
Misc clerical workers	.62	.67	.74	.38	.38	.44	3.27	3.24	3.07
Crafts and kindred workers	13.76	12.61	13.09	11.90	12.26	12.05	21.72	21.18	21.11
Construction crafts workers	.23	.21	.16	.37	.34	.25	2.12	2.03	2.02
Carpenters and apprentices	.09	.10	.09	.14	.13	.12	.29	.29	.24
Brick, stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.02	.02	.01
Bulldozer operators	.00	.00	.00	.00	.00	.00	.16	.14	.14
Electricians and apprentices	.10	.07	.02	.09	.09	.09	.81	.83	.81
Excavating, grading mach operatr	.00	.00	.00	.00	.00	.00	.20	.17	.17
Painters and apprentices	.03	.03	.05	.14	.11	.05	.17	.14	.11
Plumbers, pipefitters, apprentices	.01	.01	.01	.00	.00	.00	.45	.42	.53
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Blue collar worker supervisors	3.59	4.14	4.32	4.90	5.31	5.59	2.70	2.84	2.83
Metalworkg craft wrkrs, exc meca	.78	.80	.91	.98	.96	1.20	.51	.50	.60
Blacksmiths	.00	.00	.00	.00	.00	.00	.02	.01	.01
Boilermakers	.00	.00	.00	.00	.00	.00	.08	.13	.21
Job and die setters, metal	.02	.01	.01	.07	.05	.02	.00	.00	.00
Machinists and apprentices	.49	.53	.55	.64	.69	.89	.30	.26	.30
Millwrights	.02	.03	.04	.00	.00	.00	.02	.02	.02
Pattern and moldmakers	.21	.19	.26	.10	.08	.14	.00	.00	.00
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.08	.06	.04
Tool and diemakers, apprentices	.05	.04	.05	.17	.14	.15	.01	.01	.01
Mechanics, repairers, installers	1.02	1.27	1.46	1.19	1.36	1.61	5.54	5.38	5.42
Air cond, heating, refig mech	.00	.00	.00	.00	.00	.00	.11	.15	.16
Aircraft mechanics	.00	.00	.00	.00	.00	.00	.88	.97	1.14
Auto body repairers	.00	.00	.00	.00	.00	.00	.03	.02	.02
Auto mechanics and apprentices	.01	.01	.01	.00	.00	.00	1.56	1.48	1.49
Data processing mach repairers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Heavy equip mech, incl diesel	.98	1.23	1.41	1.03	1.23	1.55	.57	.69	.86
Household appliance mechanics	.00	.00	.00	.00	.00	.00	.81	.78	.68
Office machine repairers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Radio, television repairers	.00	.00	.00	.00	.00	.00	.17	.14	.17
Railroad, car shop repairers	.00	.00	.00	.00	.00	.00	.99	.73	.57
Other mechanics and apprentices	.03	.03	.04	.16	.12	.04	.42	.39	.29
Printing trade crafts workers	.07	.08	.11	.12	.13	.18	.04	.04	.06
Compositors and typesetters	.04	.05	.08	.05	.04	.04	.02	.02	.03
Press, plate printers, apprentices	.02	.03	.03	.07	.09	.14	.01	.02	.03
Transport, public util craft wrkrs	.01	.01	.01	.00	.00	.00	8.53	8.24	7.77
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	1.63	1.75	1.66
Locomotive engineers	.00	.00	.00	.00	.00	.00	.68	.78	.77
Locomotive engineers' helpers	.00	.00	.00	.00	.00	.00	.35	.17	.06
Power station operators	.00	.00	.00	.00	.00	.00	.25	.28	.18
Telephone installers, repairers	.01	.01	.01	.00	.00	.00	4.64	4.30	4.21
Telephone line instalar, splicers	.00	.00	.00	.00	.00	.00	.98	.97	.91

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Footwear, except rubber			All other leather products			Transporta- tion, other public util		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	8.07	6.10	6.12	4.34	4.17	3.22	2.29	2.17	2.40
Cabinetmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.01	.00	.00	.00	.00	.00	.20	.16	.19
Inspectors, other	.02	.02	.03	.02	.03	.03	.85	.79	.69
Shoe repairers	3.42	1.28	1.75	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Stationary engineers	.08	.08	.11	.08	.07	.11	1.06	1.05	1.39
Tailors	.02	.02	.01	.11	.11	.14	.00	.00	.00
Upholsterers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts workers	4.51	4.68	4.21	4.13	3.95	2.94	.16	.14	.11
Operatives	68.77	68.72	69.16	61.00	60.01	61.47	26.80	28.30	28.45
Operatives,except transport	68.34	68.24	68.52	60.23	59.20	60.41	3.11	2.81	2.38
Semiskilled metalworking	.45	.38	.28	.95	.75	.53	.46	.43	.44
Drill press operatives	.03	.02	.01	.06	.03	.01	.00	.00	.00
Grinding machine operatives	.01	.01	.01	.00	.00	.00	.01	.00	.00
Lathe,milling mach operatives	.05	.03	.03	.08	.05	.03	.01	.01	.01
Metal platers	.01	.01	.01	.08	.06	.01	.00	.00	.00
Other precisicn mach operators	.01	.01	.00	.03	.02	.01	.00	.00	.00
Punch,stamping press operatives	.24	.20	.13	.48	.37	.21	.01	.01	.01
Solderers	.05	.05	.04	.04	.03	.00	.00	.00	.00
Welders and flamecutters	.05	.06	.06	.17	.19	.26	.42	.40	.42
Semiskilled packing, inspecting	5.34	5.65	6.52	7.86	7.86	9.61	.18	.18	.17
Checkers, examiners, mfg	2.55	2.79	3.28	3.32	3.44	4.24	.00	.00	.00
Graders and scrters, mfg	.29	.30	.25	.32	.32	.29	.00	.00	.00
Packer,wrapper,exc meat,prodce	2.50	2.56	2.99	4.22	4.11	5.08	.17	.17	.16
Produce grdr, pkrs,exc fact,farm	.00	.00	.00	.00	.00	.00	.02	.01	.01
Other operatives, exc transport	62.55	62.21	61.73	51.43	50.59	50.27	2.47	2.19	1.77
Assemblers	1.64	1.91	2.28	5.64	6.71	10.09	.00	.00	.00
Bottling,canning operatives	.02	.02	.02	.03	.02	.01	.00	.00	.00
Clothing ironers and pressers	.12	.10	.10	.13	.08	.02	.00	.00	.00
Cutting operatives, other	1.90	2.08	2.21	4.16	4.13	3.86	.01	.00	.01
Drillers, earth	.00	.00	.00	.00	.00	.00	.01	.01	.01
Dyers	.10	.11	.14	.11	.11	.12	.00	.00	.00
Filer,polisher,sander,buffer	.34	.32	.24	.32	.27	.18	.00	.00	.00
Garage wrkr,gas station atten	.01	.01	.01	.00	.00	.00	.09	.06	.05
Laundry,dry cleang oprs,other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Meat cutters,tutchers,exc mfg	.00	.00	.00	.00	.00	.00	.04	.02	.01
Meat cutters and butchers	.06	.06	.08	.06	.05	.05	.00	.00	.00
Mixing operatives	.05	.05	.04	.10	.09	.06	.00	.00	.00
Oilers,greasers,exc automobiles	.01	.01	.02	.05	.06	.09	.13	.10	.05
Painters, mfg articles	.27	.25	.26	.70	.61	.70	.01	.01	.01
Photographic process workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Riveters and fasteners	.65	.70	.75	1.79	1.67	1.37	.00	.00	.00
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.60	.47	.36
Sawyers	.05	.06	.06	.21	.19	.16	.01	.01	.01
Sewers and stitchers	17.11	16.32	22.02	15.83	13.03	12.93	.00	.00	.00
Shoemaking machine operatives	28.65	27.07	21.01	.07	.05	.02	.00	.00	.00
Furnace tendr,stokr,exc metal	.19	.15	.17	.08	.06	.10	.22	.14	.12
Winding operatives, other	.02	.01	.00	.08	.06	.03	.01	.01	.01
Miscellaneous machine operatves	7.08	8.03	8.09	10.89	11.08	9.42	.19	.20	.17
Other operatives,exc transport	4.30	4.97	4.22	11.20	12.31	11.04	1.12	1.12	.94
Transport equipment operatives	.43	.48	.64	.77	.81	1.06	23.70	25.49	26.07
Boat operators	.00	.00	.00	.00	.00	.00	.07	.06	.03
Bus drivers	.00	.00	.00	.00	.00	.00	3.83	4.54	4.31
Conductors,operators,urban rail	.00	.00	.00	.00	.00	.00	.17	.15	.17
Delivery and route workers	.06	.06	.07	.13	.11	.14	.68	.70	.64
Fork lift,tow motor operatives	.11	.13	.14	.34	.38	.35	.32	.36	.33
Railroad brake operators	.00	.00	.00	.00	.00	.00	.92	.76	.71
Railroad switch operators	.00	.00	.00	.00	.00	.00	.95	.70	.55
Taxicab drivers, chauffeurs	.01	.01	.01	.03	.03	.03	1.92	1.94	1.75
Truck drivers	.25	.28	.43	.27	.29	.54	14.82	16.27	17.58
Service workers	1.54	1.53	1.38	1.22	1.03	.69	2.89	2.53	2.74
Cleaning service workers	.89	.87	.70	.93	.80	.48	1.13	.94	.77
Bldg interior cleaners, other	.11	.12	.10	.22	.21	.15	.24	.20	.17
Janitors and sextons	.78	.76	.60	.71	.59	.33	.88	.74	.60

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Footwear, except rubber			All other leather products			Transporta- tion, other public util		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.05	.05	.04	.11	.09	.05	.36	.24	.18
Waiters' assistants	.00	.00	.00	.00	.00	.00	.01	.01	.01
Cooks,exc private households	.03	.03	.03	.03	.03	.02	.16	.11	.07
Dishwashers	.00	.00	.00	.03	.02	.01	.02	.01	.01
Food counter,fountain workers	.00	.00	.00	.03	.03	.01	.02	.02	.02
Waiters	.01	.00	.00	.00	.00	.00	.09	.05	.03
Other food serv wkrs,exc privt	.01	.01	.01	.03	.02	.01	.06	.04	.03
Health service workers	.07	.06	.12	.03	.03	.09	.01	.01	.01
Nursing aides and orderlies	.06	.06	.12	.03	.03	.09	.00	.00	.00
Personal service workers	.12	.12	.10	.05	.05	.07	.97	.96	1.37
Flight attendants	.00	.00	.00	.00	.00	.00	.67	.76	1.17
Attendants,recreation,amusement	.00	.00	.00	.00	.00	.00	.01	.01	.01
Attendants,personal serv,other	.02	.01	.01	.00	.00	.00	.07	.06	.07
Baggage porters and bellhops	.00	.00	.00	.00	.00	.00	.10	.05	.06
Elevator operators	.10	.10	.09	.05	.05	.07	.02	.02	.01
Housekeepers, exc private homes	.00	.00	.00	.00	.00	.00	.08	.05	.03
Protective service workers	.41	.43	.42	.10	.06	.00	.42	.38	.41
Crossing guards,bridgetenders	.00	.00	.00	.00	.00	.00	.07	.06	.04
Firefighters	.00	.00	.00	.00	.00	.00	.02	.02	.02
Guards	.41	.43	.42	.10	.06	.00	.27	.26	.31
Police and detectives	.00	.00	.00	.00	.00	.00	.07	.05	.04
Laborers, except farm	1.84	1.94	1.93	1.93	1.85	1.55	9.92	8.95	8.67
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.02	.04	.04
Carpenter helpers	.03	.03	.05	.04	.03	.02	.04	.03	.04
Constr labr,exc carpenter helpr	.01	.01	.01	.02	.02	.01	.70	.60	.44
Freight and material handlers	.70	.74	.82	.75	.69	.60	2.36	2.28	1.88
Garbage collectors	.00	.00	.00	.00	.00	.00	1.65	1.73	2.56
Gardenrs,grcundkeepers,exc farm	.01	.01	.01	.01	.01	.01	.13	.15	.14
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	1.07	.96	.78
Timbercutting, logging workers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Stock handlers	.62	.69	.60	.75	.78	.59	.13	.12	.06
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.00
Vehicle washers,equip cleaners	.12	.12	.07	.05	.04	.01	.35	.28	.24
warehouse labcrers, other	.08	.08	.09	.10	.11	.17	.22	.21	.18
Other laborers	.27	.26	.27	.21	.18	.15	3.24	2.55	2.31

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation, total			Railroads and railway express			Local and interurban transit		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	3.65	3.93	4.25	2.39	2.44	2.08	1.00	.99	1.26
Engineers, technical	.38	.33	.33	.56	.45	.37	.23	.17	.31
Aeronautical	.03	.03	.04	.00	.00	.00	.00	.00	.00
Civil	.10	.07	.08	.28	.21	.20	.09	.07	.11
Electrical	.07	.06	.06	.10	.09	.08	.07	.06	.09
Industrial	.05	.05	.04	.07	.06	.03	.02	.01	.02
Mechanical	.08	.09	.08	.07	.06	.03	.02	.02	.05
Other engineers	.03	.03	.03	.04	.03	.02	.02	.01	.05
Life and physical scientists	.02	.02	.02	.02	.03	.02	.00	.00	.00
Atmospheric and space	.01	.01	.02	.00	.00	.00	.00	.00	.00
Chemists	.01	.01	.00	.02	.02	.02	.00	.00	.00
Mathematical specialists	.02	.02	.01	.05	.04	.04	.01	.00	.00
Statisticians	.02	.02	.01	.05	.03	.04	.00	.00	.00
Engineering, science technicians	.21	.19	.20	.29	.25	.21	.05	.05	.11
Drafters	.05	.04	.04	.11	.09	.05	.03	.03	.06
Electrical and electronic	.05	.05	.05	.07	.06	.04	.00	.00	.00
Surveyors	.05	.04	.03	.05	.05	.07	.01	.01	.01
Other engineering, science tech	.05	.05	.06	.06	.05	.03	.01	.01	.05
Medical workers, exc technicians	.02	.02	.02	.02	.02	.02	.01	.01	.02
Registered nurses	.01	.01	.01	.02	.02	.02	.01	.01	.02
Health technologists, technicians	.01	.01	.01	.01	.01	.00	.02	.01	.02
Clinical lab technologists, tech	.00	.00	.01	.01	.00	.00	.01	.01	.02
Technicians, except health	1.58	1.80	2.13	.02	.02	.02	.22	.26	.16
Airplane pilots	1.24	1.53	1.86	.00	.00	.00	.00	.00	.00
Flight engineers	.23	.14	.18	.00	.00	.00	.00	.00	.00
Radio operators	.09	.10	.06	.01	.01	.00	.20	.24	.13
Other technicians except health	.02	.03	.03	.01	.01	.02	.01	.02	.03
Computer specialists	.16	.20	.21	.20	.25	.26	.03	.03	.05
Computer programmers	.11	.12	.13	.13	.14	.14	.02	.02	.03
Computer systems analysts	.05	.07	.08	.07	.10	.09	.01	.01	.02
Other computer specialists	.01	.01	.01	.01	.02	.02	.00	.00	.00
Social scientists	.03	.04	.05	.03	.04	.03	.01	.01	.02
Economists	.03	.04	.05	.03	.04	.03	.01	.01	.02
Teachers	.10	.06	.03	.02	.02	.01	.00	.00	.00
Other teachers	.10	.05	.03	.02	.01	.00	.00	.00	.00
Writers, artists, entertainers	.16	.20	.20	.09	.10	.08	.06	.06	.08
Athletes and kindred workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Designers	.01	.01	.02	.02	.03	.02	.01	.01	.02
Editors and reporters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Photographers	.01	.00	.00	.01	.01	.01	.01	.01	.01
Public relations specialists	.09	.11	.12	.05	.06	.05	.04	.04	.04
Other writers, artists, entertain	.02	.03	.03	.00	.00	.00	.00	.00	.00
Other professional and technical	.96	1.07	1.05	1.08	1.21	1.03	.38	.39	.50
Accountants	.63	.69	.74	.71	.78	.73	.21	.20	.25
Architects	.01	.01	.01	.01	.01	.00	.01	.01	.02
Foresters and conservationists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Lawyers	.04	.07	.06	.08	.12	.11	.04	.06	.07
Operations and systems research	.04	.05	.05	.05	.07	.04	.00	.01	.03
Personnel, labor relations wkrs	.22	.23	.18	.19	.19	.11	.12	.11	.12
Other research workers	.02	.01	.01	.02	.02	.01	.01	.01	.01
Managers, officials, proprietors	8.90	9.99	10.55	11.87	13.40	15.50	2.43	2.45	2.89
Buyers, sales, loan managers	.44	.40	.42	.35	.30	.27	.09	.06	.14
Bank, financial managers	.07	.07	.05	.03	.03	.02	.02	.01	.05
Credit managers	.01	.01	.01	.01	.01	.01	.01	.00	.01
Purchasing agents, buyers, other	.15	.12	.12	.13	.10	.10	.04	.02	.04
Sales manager, exc retail trade	.20	.21	.23	.18	.17	.15	.02	.02	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation, total			Railroads and railway express			Local and interurban transit		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers, officials, proprs	8.47	9.58	10.14	11.52	13.10	15.22	2.34	2.40	2.75
Mgrs, superintendents, building	.01	.01	.01	.01	.01	.01	.00	.00	.00
Office managers, other	.47	.46	.46	.55	.52	.49	.11	.09	.20
Officers, pilots, pursers, ship	.86	.71	.58	.03	.03	.02	.00	.00	.00
Railroad conductors	1.40	1.11	1.10	6.50	7.11	8.99	.00	.00	.00
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.01	.00	.02
Other managers, administrators	5.72	7.29	7.99	4.41	5.43	5.71	2.22	2.30	2.53
Sales workers	.73	.67	.77	.22	.17	.17	.17	.12	.32
Advertising agents, sales worker	.01	.01	.02	.00	.00	.00	.01	.01	.02
Other sales wrkrs	.72	.66	.76	.22	.17	.17	.17	.11	.30
Clerical workers	15.92	15.26	14.36	17.29	15.28	10.30	8.44	7.13	9.35
Stenographers, typists, secretaries	2.82	2.73	2.72	2.39	2.10	1.75	.87	.66	.94
Legal secretaries	.01	.01	.01	.03	.02	.02	.00	.00	.00
Other secretaries	1.76	1.86	1.98	.98	.99	.85	.58	.47	.68
Stenographers	.16	.08	.03	.47	.31	.19	.04	.01	.01
Typists	.88	.78	.70	.92	.79	.70	.24	.17	.26
Office machine operators	.67	.60	.49	1.29	1.20	.76	.15	.12	.19
Bookkeeping and billing	.06	.03	.02	.03	.01	.00	.01	.00	.01
Calculating	.04	.02	.01	.08	.05	.02	.02	.01	.02
Computer and peripheral equip	.15	.28	.30	.26	.51	.53	.03	.06	.10
Duplicating	.01	.01	.00	.01	.01	.01	.00	.00	.00
Keypunch	.39	.25	.14	.86	.59	.19	.08	.04	.03
Tabulating	.01	.00	.00	.01	.00	.00	.01	.00	.01
Other office machine operators	.02	.02	.01	.03	.02	.01	.01	.00	.02
Other clerical workers	12.44	11.93	11.15	13.61	11.98	7.79	7.42	6.35	8.21
Billing clerks	.34	.35	.32	.36	.33	.24	.04	.03	.09
Bookkeepers	1.42	1.38	1.34	1.01	.96	.83	.70	.58	.83
Cashiers	.35	.40	.49	.21	.18	.08	.53	.45	.64
Clerical supervisors, other	.22	.21	.22	.33	.31	.26	.13	.11	.32
Collectors, bill and account	.02	.02	.02	.01	.01	.00	.02	.02	.06
Counter clerks, exc food	.08	.08	.09	.08	.07	.04	.04	.04	.06
Dispatchers, starters, vehicle	.92	.96	.90	.09	.08	.06	1.96	1.88	1.91
Enumerators and interviewers	.00	.00	.01	.00	.00	.00	.01	.01	.03
Estimators, investigators, other	.41	.39	.34	.68	.60	.52	.13	.10	.15
Expeditors, production controls	.18	.16	.16	.16	.13	.10	.11	.07	.15
File clerks	.23	.19	.18	.30	.22	.19	.07	.05	.08
Insurance adjusters, examiners	.01	.01	.01	.01	.01	.01	.01	.01	.03
Library attendants, assistants	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mail handlers, exc post office	.18	.16	.13	.25	.22	.18	.02	.02	.06
Messengers and office helpers	.08	.06	.04	.16	.14	.06	.01	.01	.02
Payroll, timekeeping clerks	.28	.29	.26	.42	.40	.33	.16	.15	.19
Receptionists	.17	.14	.14	.06	.04	.04	.23	.15	.24
Shipping and receiving clerks	1.09	1.16	1.25	.59	.49	.33	.09	.07	.10
Statistical clerks	.43	.41	.36	.88	.86	.72	.13	.11	.17
Stock clerks and store keepers	.54	.36	.22	.96	.65	.49	.15	.08	.10
Telegraph operators	.27	.17	.06	1.24	1.08	.45	.00	.00	.00
Telephone operators	.20	.13	.11	.21	.12	.06	.21	.14	.23
Ticket, station, express agents	3.28	3.27	3.37	2.41	2.17	1.27	1.91	1.67	2.17
Weighers	.05	.05	.05	.05	.04	.02	.00	.00	.00
Misc clerical workers	1.70	1.58	1.12	3.14	2.87	1.50	.75	.62	.61
Crafts and kindred workers	13.85	12.60	12.13	30.70	32.29	32.16	7.22	5.56	8.22
Construction crafts workers	1.37	1.09	.91	3.41	3.13	2.47	.69	.55	.88
Carpenters and apprentices	.35	.30	.23	.84	.80	.56	.10	.08	.11
Brick, stonemasons, apprentices	.01	.01	.00	.02	.02	.02	.02	.01	.01
Bulldozer operators	.07	.05	.04	.10	.08	.06	.00	.00	.00
Cement and concrete finishers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Electricians and apprentices	.50	.42	.41	1.43	1.41	1.30	.35	.32	.51
Excavating, grading mach operatr	.07	.05	.04	.13	.10	.06	.01	.01	.04
Painters and apprentices	.20	.15	.10	.38	.28	.18	.15	.09	.14
Plumbers, pipefitters, apprentices	.14	.09	.07	.48	.41	.30	.04	.04	.04
Structural metal craft workers	.02	.01	.01	.02	.01	.00	.02	.01	.04
Blue collar worker supervisors	2.14	2.13	1.91	3.82	3.70	3.08	.58	.54	.67

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation, total			Railroads and railway express			Local and interurban transit		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Metalworkg craft wrkrs,exc mech	.62	.46	.43	2.04	1.79	1.89	.14	.09	.17
Blacksmiths	.03	.02	.01	.12	.09	.05	.01	.01	.01
Boilermakers	.04	.02	.02	.15	.10	.08	.00	.00	.02
Forge and hammer operators	.01	.01	.00	.04	.04	.02	.00	.00	.00
Machinists and apprentices	.40	.29	.31	1.44	1.29	1.52	.09	.05	.11
Millwrights	.02	.03	.03	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.12	.09	.07	.27	.24	.21	.03	.02	.03
Tool and diemakers, apprentices	.01	.00	.00	.01	.01	.01	.00	.00	.00
Mechanics,repairers,installers	6.31	5.95	6.22	8.50	8.45	8.35	5.27	4.01	5.68
Air cond, heating, refrig meca	.06	.09	.09	.05	.07	.07	.02	.02	.04
Aircraft mechanics	1.55	1.70	2.04	.00	.00	.00	.00	.01	.02
Auto body repairers	.04	.03	.03	.00	.00	.00	.13	.07	.09
Auto mechanics and apprentices	2.27	2.19	2.32	.08	.06	.04	4.82	3.67	5.17
Data processing mach repairers	.00	.00	.01	.01	.01	.01	.00	.00	.00
Heavy equip mech, incl diesel	.37	.43	.53	.21	.24	.22	.09	.08	.14
Household appliance mechanics	.01	.01	.01	.01	.01	.01	.01	.01	.00
Radio, television repairers	.11	.08	.07	.12	.11	.12	.02	.02	.02
Railroad, car shop repairers	1.73	1.27	1.03	7.86	7.83	7.80	.16	.12	.17
Other mechanics and apprentices	.17	.14	.10	.14	.11	.08	.02	.02	.03
Printing trade crafts workers	.01	.01	.01	.03	.03	.03	.00	.00	.00
Compositors and typesetters	.01	.01	.01	.01	.01	.00	.00	.00	.00
Press,plate printers,aprentices	.00	.00	.00	.01	.02	.03	.00	.00	.00
Transport,public util craft wrkrs	1.89	1.70	1.54	8.72	10.83	12.38	.13	.09	.15
Elec pwr line instaler,repairer	.05	.03	.01	.20	.13	.07	.04	.02	.02
Locomotive engineers	1.19	1.36	1.38	5.52	8.69	11.31	.02	.02	.02
Locomotive engineers' helpers	.62	.30	.11	2.87	1.89	.92	.00	.00	.00
Power station operators	.01	.01	.01	.01	.01	.01	.05	.04	.06
Telephone installers,repairers	.03	.02	.02	.10	.08	.06	.02	.02	.04
Telephone line instalr,splicers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Other crafts, kindred workers	1.51	1.26	1.12	4.18	4.37	3.95	.41	.29	.66
Bakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.24	.18	.22	.39	.33	.41	.02	.01	.07
Glaziers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Inspectors, lcg and lumber	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.93	.79	.65	3.51	3.81	3.39	.29	.22	.49
Sign painters and letterers	.01	.00	.00	.01	.01	.00	.01	.01	.02
Stationary engineers	.19	.16	.15	.16	.14	.11	.06	.03	.04
Upholsterers	.02	.01	.01	.04	.02	.00	.03	.01	.04
Other crafts workers	.10	.09	.07	.03	.03	.01	.00	.00	.00
Operatives	42.97	45.46	46.20	19.45	20.13	21.59	76.45	81.18	73.93
Operatives,except transport	3.60	3.12	2.63	3.02	2.89	2.54	.57	.38	.76
Semiskilled metalworking	.47	.40	.40	1.40	1.44	1.50	.09	.06	.17
Drill press operatives	.00	.00	.00	.01	.01	.01	.00	.00	.00
Furnace tendrs,smeltrs,pourers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Grinding machine operatives	.01	.01	.00	.03	.02	.01	.00	.00	.00
Lathe,milling mach operatives	.02	.01	.01	.05	.03	.01	.01	.01	.01
Other precision mach operators	.01	.00	.00	.02	.01	.00	.00	.00	.00
Punch,stamping press operatives	.01	.00	.00	.02	.01	.01	.01	.00	.02
Welders and flamecutters	.42	.37	.38	1.25	1.34	1.46	.07	.05	.14
Semiskilled packing, inspecting	.31	.30	.30	.01	.01	.00	.01	.00	.01
Packer,wrapper,exc meat,prodce	.28	.28	.28	.01	.01	.00	.01	.00	.01
Produce grdt, pkrs,exc fact,farm	.03	.02	.02	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation, total			Railroads and railway express			Local and interurban transit		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	2.82	2.41	1.93	1.62	1.45	1.04	.48	.31	.58
Blasters	.00	.00	.00	.00	.00	.00	.02	.01	.02
Surveyors' helpers	.01	.00	.00	.02	.02	.02	.00	.00	.00
Cutting operatives, other	.00	.00	.00	.02	.02	.02	.00	.00	.00
Dressmakers, exc factory	.00	.00	.00	.01	.01	.01	.00	.00	.00
Garage wrkr, gas station atten	.11	.08	.06	.02	.01	.01	.14	.07	.10
Meat cutters, butchers, exc mfg	.07	.04	.02	.00	.00	.00	.00	.00	.00
Oilers, greasers, exc automobiles	.16	.13	.06	.12	.09	.07	.02	.02	.02
Painters, mfg articles	.01	.01	.01	.01	.01	.00	.02	.01	.02
Riveters and fasteners	.01	.00	.00	.01	.01	.00	.00	.00	.00
Sailors and deckhands	1.05	.82	.64	.04	.02	.00	.00	.00	.00
Sawyers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Sewers and stitchers	.01	.01	.01	.02	.02	.03	.00	.00	.00
Furnace tendr, stokr, exc metal	.09	.05	.03	.09	.05	.01	.02	.01	.02
Winding operatives, other	.01	.00	.00	.02	.01	.00	.00	.00	.00
Miscellaneous machine operatives	.13	.13	.11	.13	.13	.08	.02	.02	.06
Other operatives, exc transport	1.16	1.12	.97	1.08	1.01	.76	.23	.17	.35
Transport equipment operatives	39.37	42.35	43.57	16.43	17.24	19.05	75.87	80.81	73.17
Boat operators	.12	.09	.05	.02	.02	.02	.01	.01	.02
Bus drivers	6.69	7.92	7.73	.06	.07	.03	49.32	55.28	50.04
Conductors, operators, urban rail	.29	.26	.30	.00	.00	.00	2.16	1.81	1.94
Delivery and route workers	1.08	1.13	1.00	.12	.11	.12	.18	.15	.21
Fork lift, tow motor operatives	.54	.61	.56	.22	.23	.17	.03	.02	.06
Rail vehicle operators, other	.01	.01	.01	.02	.02	.02	.02	.02	.03
Parking attendants	.01	.01	.00	.00	.00	.00	.02	.02	.02
Railroad brake operators	1.61	1.32	1.27	7.48	8.50	10.42	.00	.00	.00
Railroad switch operators	1.65	1.21	.97	7.48	7.43	7.46	.25	.24	.30
Taxicab drivers, chauffeurs	3.32	3.35	3.14	.08	.05	.00	23.57	22.89	20.05
Truck drivers	24.05	26.44	28.55	.95	.81	.80	.31	.37	.50
Service workers	3.62	3.15	3.90	2.69	2.04	1.79	2.24	1.26	2.20
Cleaning service workers	.87	.68	.71	.86	.72	.61	1.05	.58	1.15
Lodging qtrs cleaners, exc privt	.00	.00	.00	.01	.01	.01	.00	.00	.00
Bldg interior cleaners, other	.26	.20	.20	.38	.36	.26	.45	.25	.45
Janitors and sextons	.60	.47	.51	.46	.35	.34	.60	.33	.70
Food service workers	.55	.37	.29	.56	.35	.32	.26	.20	.28
Bartenders	.01	.01	.01	.02	.02	.03	.00	.00	.00
Waiters' assistants	.01	.01	.02	.01	.01	.03	.02	.02	.04
Cooks, exc private households	.26	.18	.12	.23	.15	.12	.07	.03	.05
Dishwashers	.02	.01	.01	.03	.01	.01	.02	.01	.02
Food counter, fountain workers	.02	.03	.03	.01	.02	.05	.05	.10	.09
Waiters	.15	.08	.06	.24	.12	.10	.10	.04	.06
Other food serv wkrs, exc privt	.09	.06	.05	.02	.01	.00	.01	.01	.02
Health service workers	.01	.01	.01	.01	.01	.00	.03	.02	.02
Nursing aides and orderlies	.01	.00	.00	.00	.00	.00	.03	.02	.02
Personal service workers	1.64	1.62	2.43	.38	.24	.19	.54	.21	.35
Flight attendants	1.18	1.33	2.10	.00	.00	.00	.00	.00	.00
Attendants, recreation, amusement	.02	.02	.03	.00	.00	.00	.07	.03	.03
Attendants, personal serv, other	.10	.08	.11	.09	.06	.03	.10	.04	.03
Baggage porters and bellhops	.17	.08	.11	.19	.11	.11	.29	.10	.21
Child care workers, exc private	.01	.01	.02	.02	.01	.02	.05	.02	.06
Elevator operators	.02	.02	.01	.02	.02	.01	.00	.00	.00
Housekeepers, exc private homes	.13	.08	.05	.05	.04	.02	.02	.01	.02
Protective service workers	.55	.48	.47	.89	.73	.67	.35	.26	.40
Crossing guards, bridgetenders	.12	.10	.06	.24	.17	.10	.03	.02	.06
Firefighters	.03	.03	.03	.02	.02	.02	.00	.00	.00
Guards	.30	.28	.31	.39	.36	.40	.19	.14	.22
Police and detectives	.10	.07	.07	.25	.18	.16	.14	.10	.13

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Transportation, total			Railroads and railway express			Local and interurban transit		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	10.37	8.96	7.83	15.40	14.26	16.44	2.06	1.30	1.83
Animal caretakers, exc farm	.04	.06	.07	.00	.00	.00	.00	.00	.00
Carpenter helpers	.03	.03	.04	.09	.06	.04	.02	.01	.07
Constr labr,exc carpenter help	.18	.13	.08	.40	.33	.17	.06	.04	.10
Freight and material handlers	3.94	3.78	3.15	1.79	1.52	1.18	.12	.08	.12
Garbage collectors	.19	.21	.21	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.06	.07	.07	.02	.02	.02	.01	.01	.07
Longshore workers, stevedores	1.87	1.68	1.41	.03	.02	.00	.00	.00	.00
Timbercutting, logging workers	.02	.01	.01	.00	.00	.00	.01	.01	.02
Stock handlers	.19	.16	.07	.08	.06	.04	.06	.03	.03
Teamsters	.02	.01	.00	.01	.01	.01	.00	.00	.00
Vehicle washers,equip cleaners	.54	.42	.38	.52	.40	.29	.93	.55	.61
Warehouse laborers, other	.31	.29	.25	.03	.02	.01	.01	.01	.02
Other laborers	3.00	2.12	2.08	12.44	11.82	14.67	.85	.56	.80

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Street, railway, and bus lines			Taxicab service			Trucking and warehousing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.06	.96	1.48	.83	1.06	.52	.88	1.00	.87
Engineers, technical	.30	.23	.39	.01	.01	.02	.08	.07	.05
Civil	.12	.09	.14	.00	.00	.00	.01	.01	.01
Electrical	.09	.09	.11	.00	.00	.00	.01	.01	.01
Industrial	.02	.02	.02	.01	.01	.02	.03	.02	.01
Mechanical	.03	.02	.06	.00	.00	.00	.02	.02	.02
Other engineers	.03	.02	.06	.00	.00	.00	.01	.01	.00
Engineering, science technicians	.06	.06	.15	.00	.00	.00	.02	.02	.02
Drafters	.04	.04	.07	.00	.00	.00	.01	.01	.01
Surveyors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other engineering, science technicians	.01	.02	.06	.00	.00	.00	.01	.01	.01
Medical workers, exc technicians	.01	.01	.03	.00	.00	.00	.00	.00	.00
Registered nurses	.01	.01	.03	.00	.00	.00	.00	.00	.00
Health technologists, technicians	.02	.02	.02	.00	.00	.00	.00	.00	.00
Clinical lab technologists, technicians	.01	.01	.02	.00	.00	.00	.00	.00	.00
Technicians, except health	.06	.05	.10	.68	.84	.36	.06	.08	.07
Airplane pilots	.00	.00	.00	.00	.00	.00	.02	.04	.04
Radio operators	.05	.04	.06	.67	.82	.36	.03	.04	.02
Other technicians except health	.01	.01	.04	.01	.02	.01	.00	.01	.01
Computer specialists	.03	.03	.06	.01	.01	.00	.07	.08	.08
Computer programmers	.02	.02	.03	.00	.01	.00	.05	.06	.06
Computer systems analysts	.01	.01	.03	.00	.01	.00	.02	.02	.02
Social scientists	.01	.01	.03	.00	.00	.00	.01	.02	.01
Economists	.01	.01	.03	.00	.00	.00	.01	.02	.01
Writers, artists, entertainers	.08	.08	.10	.01	.01	.02	.06	.07	.06
Designers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Editors and reporters	.01	.01	.02	.00	.00	.00	.01	.01	.01
Photographers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Public relations specialists	.04	.04	.05	.01	.01	.02	.04	.05	.04
Other professional and technical	.47	.46	.60	.12	.18	.13	.57	.66	.57
Accountants	.26	.25	.32	.04	.05	.01	.40	.45	.42
Architects	.01	.01	.02	.00	.00	.00	.00	.00	.00
Lawyers	.05	.07	.09	.01	.02	.01	.02	.04	.03
Operations and systems research	.01	.01	.03	.00	.00	.00	.01	.01	.01
Personnel, labor relations workers	.13	.11	.13	.07	.11	.11	.14	.15	.11
Other research workers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Managers, officials, proprietors	2.56	2.09	2.76	2.02	3.49	3.34	6.11	7.42	7.35
Buyers, sales, loan managers	.12	.07	.18	.01	.01	.01	.34	.31	.26
Bank, financial managers	.03	.02	.06	.00	.00	.00	.05	.05	.03
Credit managers	.01	.00	.01	.00	.00	.00	.02	.01	.01
Purchasing agents, buyers, other	.05	.03	.05	.01	.01	.01	.08	.07	.06
Sales manager, exc retail trade	.03	.02	.05	.00	.00	.00	.18	.18	.15
Other managers, officials, proprietors	2.44	2.02	2.58	2.01	3.48	3.33	5.77	7.11	7.09
Mgns, superintendents, building	.00	.00	.00	.00	.01	.00	.01	.01	.02
Office managers, other	.10	.07	.21	.12	.16	.14	.52	.51	.44
Restaurant, cafe, bar, managers	.01	.01	.02	.00	.00	.00	.00	.01	.00
Other managers, administrators	2.33	1.95	2.34	1.89	3.32	3.18	5.23	6.58	6.62
Sales workers	.22	.15	.40	.02	.02	.01	.96	.73	.57
Advertising agents, sales workers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other sales workers	.22	.14	.38	.02	.02	.01	.96	.73	.57
Clerical workers	8.88	6.88	9.63	7.11	7.87	8.37	11.80	11.50	9.67
Stenographers, typists, secretaries	1.05	.74	1.05	.31	.43	.57	2.59	2.52	2.28
Other secretaries	.69	.51	.74	.26	.36	.45	1.70	1.74	1.64
Stenographers	.05	.02	.01	.00	.00	.00	.05	.02	.00
Typists	.30	.21	.30	.05	.07	.11	.84	.75	.64

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Street, railway, and bus lines			Taxicab service			Trucking and warehousing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.19	.15	.23	.04	.04	.05	.45	.38	.33
Bookkeeping and billing	.01	.00	.02	.01	.00	.01	.09	.04	.02
Calculating	.02	.01	.02	.01	.00	.01	.03	.01	.00
Computer and peripheral equip	.05	.08	.13	.00	.00	.00	.07	.15	.15
Duplicating	.00	.00	.00	.01	.01	.01	.00	.00	.00
Keypunch	.10	.05	.04	.02	.02	.10	.24	.16	.15
Other office machine operators	.01	.01	.02	.00	.00	.00	.02	.02	.01
Other clerical workers	7.63	5.99	8.35	6.77	7.40	7.75	8.76	8.60	7.06
Billing clerks	.05	.03	.11	.01	.01	.01	.51	.53	.45
Bookkeepers	.73	.52	.70	.60	.74	1.28	1.73	1.61	1.39
Cashiers	.65	.55	.76	.15	.18	.21	.24	.25	.21
Clerical supervisors, other	.17	.14	.40	.02	.03	.03	.11	.11	.09
Collectors, bill and account	.03	.02	.07	.00	.00	.00	.03	.02	.02
Counter clerks, exc food	.04	.02	.06	.07	.09	.10	.08	.08	.07
Dispatchers, starters, vehicle	1.25	.98	1.28	4.12	4.46	4.08	1.48	1.45	1.24
Enumerators and interviewers	.02	.01	.04	.00	.00	.00	.00	.00	.00
Estimators, investigators, other	.15	.11	.20	.05	.04	.01	.38	.38	.29
Expeditors, production controls	.12	.08	.19	.08	.06	.01	.12	.11	.09
File clerks	.09	.06	.10	.02	.02	.01	.21	.18	.16
Insurance adjusters, examiners	.01	.02	.04	.00	.00	.00	.01	.02	.01
Mail handlers, exc post office	.03	.03	.08	.00	.00	.00	.18	.17	.12
Messengers and office helpers	.01	.01	.03	.01	.01	.01	.04	.04	.02
Payroll, timekeeping clerks	.19	.17	.21	.07	.10	.10	.23	.28	.26
Receptionists	.27	.15	.27	.13	.12	.15	.11	.08	.05
Shipping and receiving clerks	.11	.10	.12	.01	.01	.02	1.39	1.51	1.57
Statistical clerks	.17	.14	.22	.01	.01	.02	.19	.20	.15
Stock clerks and store keepers	.20	.10	.12	.01	.01	.01	.30	.21	.10
Telephone operators	.13	.06	.21	.46	.38	.32	.17	.12	.08
Ticket, station, express agents	2.48	2.15	2.65	.18	.28	.51	.17	.18	.14
Weighers	.00	.00	.00	.00	.00	.00	.04	.03	.02
Misc clerical workers	.74	.55	.53	.78	.84	.87	1.03	1.05	.54
Crafts and kindred workers	8.93	6.62	9.69	2.04	2.52	3.13	7.11	7.15	6.60
Construction crafts workers	.91	.73	1.14	.02	.02	.01	.31	.27	.22
Carpenters and apprentices	.13	.10	.14	.00	.00	.00	.07	.08	.07
Brick, stonemasons, apprentices	.02	.01	.01	.00	.00	.00	.00	.00	.00
Bulldozer operators	.00	.00	.00	.00	.00	.00	.06	.05	.03
Electricians and apprentices	.46	.43	.66	.00	.00	.00	.03	.04	.05
Excavating, grading mach operatr	.01	.01	.05	.00	.00	.00	.05	.04	.01
Painters and apprentices	.19	.11	.18	.02	.02	.01	.05	.04	.02
Plumbers, pipefitters, apprentices	.06	.05	.05	.00	.00	.00	.01	.01	.01
Structural metal craft workers	.03	.01	.05	.00	.00	.00	.02	.01	.02
Blue collar worker supervisors	.73	.67	.81	.13	.19	.19	2.04	2.26	2.02
Metalworkg craft wrkrs, exc meca	.18	.12	.22	.00	.00	.00	.09	.10	.10
Blacksmiths	.02	.01	.01	.00	.00	.00	.00	.00	.00
Boilermakers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.12	.07	.14	.00	.00	.00	.03	.04	.03
Millwrights	.00	.00	.00	.00	.00	.00	.04	.06	.06
Sheetmetal workers, apprentices	.04	.03	.04	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	6.40	4.61	6.49	1.86	2.26	2.89	4.19	4.06	3.83
Air cond, heating, refrig mech	.02	.02	.05	.00	.00	.00	.05	.07	.05
Aircraft mechanics	.01	.01	.02	.00	.00	.00	.02	.03	.03
Auto body repairers	.14	.07	.11	.10	.08	.03	.05	.03	.03
Auto mechanics and apprentices	5.85	4.22	5.86	1.70	2.09	2.80	3.73	3.56	3.30
Heavy equip mech, incl diesel	.11	.09	.18	.03	.05	.03	.27	.32	.37
Household appliance mechanics	.00	.00	.00	.02	.02	.01	.01	.01	.00
Radio, television repairers	.03	.02	.02	.01	.01	.01	.00	.00	.00
Railroad, car shop repairers	.21	.16	.22	.00	.00	.00	.01	.01	.01
Other mechanics and apprentices	.03	.02	.04	.00	.01	.00	.03	.03	.03
Transport, public util craft wrks	.18	.12	.20	.00	.00	.00	.00	.00	.00
Elec pwr line installer, repairer	.05	.03	.03	.00	.00	.00	.00	.00	.00
Locomotive engineers	.03	.02	.03	.00	.00	.00	.00	.00	.00
Power station operators	.07	.06	.08	.00	.00	.00	.00	.00	.00
Telephone installers, repairers	.03	.02	.06	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Street, railway, and bus lines			Taxicab service			Trucking and warehousing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.53	.37	.84	.03	.05	.04	.49	.46	.42
Cabinetmakers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Crane, derrick, hoist operator	.02	.02	.09	.00	.00	.00	.06	.05	.08
Inspectors, other	.38	.28	.62	.02	.03	.03	.18	.21	.18
Sign painters and letterers	.01	.01	.03	.00	.01	.00	.00	.00	.00
Stationary engineers	.07	.04	.05	.00	.00	.00	.05	.04	.03
Upholsterers	.03	.02	.05	.01	.01	.01	.00	.00	.00
Other crafts workers	.00	.00	.00	.00	.00	.00	.17	.14	.12
Operatives	72.76	80.06	71.03	87.61	84.42	84.00	63.18	63.26	67.70
Operatives, except transport	.67	.43	.96	.27	.23	.10	1.74	1.49	1.20
Semiskilled metalworking	.12	.08	.22	.02	.02	.01	.14	.15	.16
Lathe, milling mach operatives	.02	.01	.02	.00	.00	.00	.00	.00	.00
Punch, stamping press operatives	.01	.01	.03	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.09	.06	.18	.02	.02	.01	.13	.14	.15
Semiskilled packing, inspecting	.01	.01	.01	.00	.00	.00	.64	.56	.55
Packer, wrapper, exc meat, produce	.01	.01	.01	.00	.00	.00	.58	.52	.51
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.00	.00	.00	.06	.05	.04
Other operatives, exc transport	.55	.34	.73	.26	.22	.09	.95	.78	.49
Blasters	.03	.02	.02	.00	.00	.00	.00	.00	.00
Garage wrkr, gas station atten	.14	.06	.11	.13	.10	.06	.18	.13	.09
Meat cutters, butchers, exc mfg	.00	.00	.00	.00	.00	.00	.16	.09	.03
Oilers, greasers, exc automobiles	.02	.01	.02	.04	.03	.01	.04	.04	.01
Painters, mfg articles	.02	.01	.03	.00	.00	.00	.00	.00	.00
Sawyers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Furnace tendr, stokr, exc metal	.02	.01	.02	.00	.00	.00	.02	.01	.01
Miscellaneous machine operatives	.02	.02	.07	.01	.01	.01	.15	.14	.11
Other operatives, exc transport	.28	.20	.46	.09	.07	.01	.37	.34	.22
Transport equipment operatives	72.09	79.63	70.07	87.34	84.19	83.90	61.44	61.77	66.50
Boat operators	.02	.01	.02	.00	.00	.00	.00	.00	.00
Bus drivers	65.60	74.48	64.49	.00	.00	.00	.07	.10	.07
Conductors, operators, urban rail	2.87	2.44	2.50	.00	.00	.00	.00	.00	.00
Delivery and route workers	.24	.20	.27	.00	.00	.00	2.41	2.34	2.02
Fork lift, tow motor operatives	.04	.03	.08	.00	.00	.00	.73	.78	.76
Rail vehicle operators, other	.03	.03	.04	.00	.00	.00	.00	.00	.00
Parking attendants	.01	.01	.03	.03	.03	.01	.02	.02	.00
Railroad switch operators	.33	.32	.38	.00	.00	.00	.03	.03	.03
Taxicab drivers, chauffeurs	2.67	1.89	1.96	86.87	83.32	82.71	.17	.11	.08
Truck drivers	.27	.21	.30	.45	.83	1.18	58.01	58.40	63.54
Service workers	2.89	1.54	2.67	.26	.48	.57	.70	.57	.50
Cleaning service workers	1.36	.74	1.47	.11	.12	.05	.44	.33	.24
Bldg interior cleaners, other	.59	.33	.57	.04	.04	.02	.10	.08	.05
Janitors and sextons	.77	.41	.90	.07	.08	.03	.35	.25	.18
Food service workers	.30	.15	.26	.14	.35	.36	.03	.03	.03
Waiters' assistants	.03	.02	.06	.00	.00	.00	.00	.00	.00
Cooks, exc private households	.08	.04	.05	.01	.01	.02	.02	.01	.02
Dishwashers	.02	.01	.02	.01	.01	.01	.00	.00	.00
Food counter, fountain workers	.02	.02	.02	.12	.32	.32	.00	.00	.00
Waiters	.13	.05	.08	.01	.01	.02	.01	.01	.01
Other food serv wkrs, exc privt	.01	.01	.03	.00	.00	.00	.00	.00	.00
Health service workers	.04	.02	.02	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.03	.02	.02	.00	.00	.00	.00	.00	.00
Personal service workers	.72	.28	.41	.01	.01	.16	.07	.06	.06
Attendants, recreation, amusement	.09	.04	.04	.00	.00	.00	.00	.00	.00
Attendants, personal serv, other	.13	.06	.04	.00	.00	.00	.01	.01	.01
Baggage porters and bellhops	.39	.14	.22	.01	.01	.16	.01	.01	.01
Child care workers, exc private	.07	.03	.08	.00	.00	.00	.00	.00	.00
Elevator operators	.00	.00	.00	.00	.00	.00	.04	.03	.02
Housekeepers, exc private homes	.03	.01	.02	.00	.00	.00	.01	.01	.01
Protective service workers	.47	.35	.52	.00	.00	.00	.16	.15	.18
Crossing guards, bridgetenders	.04	.03	.07	.00	.00	.00	.00	.00	.00
Guards	.25	.19	.28	.00	.00	.00	.16	.14	.18
Police and detectives	.18	.13	.17	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Street, railway, and bus lines			Taxicab service			Trucking and warehousing		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	2.71	1.71	2.34	.11	.13	.06	9.27	8.37	6.75
Carpenter helpers	.02	.02	.09	.00	.00	.00	.01	.01	.02
Constr labr, exc carpenter helpr	.08	.05	.13	.00	.00	.00	.05	.04	.02
Freight and material handlers	.16	.11	.16	.00	.00	.00	7.19	6.54	5.29
Garbage collectors	.00	.00	.00	.00	.00	.00	.47	.47	.47
Gardenrs, groundkeepers, exc farm	.02	.02	.08	.00	.00	.00	.06	.06	.03
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.10	.12	.12
Timbercutting, logging workers	.01	.01	.03	.00	.00	.00	.02	.01	.00
Stock handlers	.08	.04	.04	.00	.00	.00	.24	.19	.07
Teamsters	.00	.00	.00	.00	.00	.00	.04	.02	.00
Vehicle washers, equip cleaners	1.19	.70	.76	.11	.13	.06	.20	.17	.12
Warehouse labcrers, other	.01	.01	.03	.00	.00	.00	.66	.56	.48
Other laborers	1.13	.75	1.03	.00	.00	.00	.22	.18	.12

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Trucking service			Warehousing and storage			Water transportation		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.84	.97	.84	1.41	1.52	1.25	3.80	4.29	4.07
Engineers, technical	.08	.07	.04	.17	.14	.16	.78	.95	.92
Chemical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Civil	.01	.01	.01	.01	.01	.01	.14	.10	.11
Electrical	.01	.01	.01	.02	.01	.01	.07	.09	.10
Industrial	.03	.02	.01	.05	.03	.04	.07	.06	.06
Mechanical	.02	.02	.01	.06	.07	.10	.44	.64	.60
Other engineers	.01	.01	.00	.02	.02	.01	.06	.04	.05
Life and physical scientists	.00	.00	.00	.01	.01	.02	.00	.00	.01
Agricultural	.00	.00	.00	.01	.01	.02	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Mathematical specialists	.01	.01	.01	.01	.01	.01	.02	.02	.00
Statisticians	.01	.01	.01	.01	.01	.01	.02	.02	.00
Engineering, science technicians	.01	.02	.02	.04	.04	.04	.64	.61	.65
Drafters	.01	.01	.01	.00	.00	.00	.06	.06	.08
Electrical and electronic	.00	.00	.00	.00	.00	.00	.04	.05	.04
Industrial engineering	.00	.00	.00	.02	.02	.01	.00	.00	.00
Mathematical technicians	.00	.00	.00	.00	.00	.00	.01	.01	.00
Surveyors	.00	.00	.00	.01	.01	.01	.37	.31	.25
Other engineering, science tech	.01	.01	.01	.02	.02	.03	.17	.18	.27
Medical workers, exc technicians	.00	.00	.00	.01	.00	.00	.03	.03	.04
Registered nurses	.00	.00	.00	.00	.00	.00	.02	.02	.04
Technicians, except health	.06	.08	.07	.03	.03	.02	.37	.43	.32
Airplane pilots	.02	.04	.04	.01	.01	.01	.01	.01	.01
Radio operators	.04	.04	.03	.02	.02	.01	.36	.42	.31
Computer specialists	.06	.08	.08	.10	.12	.09	.16	.24	.14
Computer programers	.05	.05	.06	.07	.09	.08	.11	.15	.10
Computer systems analysts	.01	.02	.02	.03	.03	.01	.04	.07	.03
Other computer specialists	.00	.01	.00	.00	.00	.00	.01	.01	.01
Social scientists	.01	.01	.01	.04	.03	.03	.03	.04	.04
Economists	.01	.01	.01	.04	.03	.03	.03	.04	.04
Writers, artists, entertainers	.06	.07	.06	.05	.05	.03	.36	.40	.40
Athletes and kindred workers	.00	.00	.00	.00	.00	.00	.15	.16	.12
Designers	.00	.00	.00	.01	.01	.01	.02	.02	.05
Editors and reporters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Musicians and composers	.00	.00	.00	.00	.00	.00	.04	.03	.00
Painters and sculptors	.00	.00	.00	.01	.01	.00	.00	.00	.00
Public relations specialists	.04	.05	.04	.03	.03	.01	.14	.17	.22
Other professional and technical	.54	.63	.55	.95	1.08	.85	1.41	1.57	1.57
Accountants	.37	.42	.39	.74	.86	.73	1.05	1.20	1.35
Architects	.00	.00	.00	.00	.00	.00	.07	.04	.02
Lawyers	.02	.04	.03	.03	.03	.01	.02	.03	.00
Operations and systems research	.01	.01	.01	.00	.00	.00	.02	.03	.03
Personnel, labor relations wkrs	.14	.15	.11	.18	.18	.11	.24	.27	.16
Other research workers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Managers, officials, proprietors	5.40	6.78	6.50	14.80	16.74	19.18	18.18	19.52	21.97
Buyers, sales, loan managers	.31	.29	.24	.72	.65	.53	.61	.56	.43
Bank, financial managers	.05	.05	.03	.08	.07	.02	.09	.08	.02
Credit managers	.02	.01	.01	.02	.01	.00	.01	.01	.02
Buyers, shippers, farm products	.00	.00	.00	.09	.07	.10	.00	.00	.00
Purchasing agents, buyers, other	.08	.06	.06	.17	.15	.13	.28	.24	.17
Sales manager, exc retail trade	.17	.17	.14	.35	.35	.28	.23	.23	.21
Other managers, officials, proprts	5.09	6.49	6.26	14.08	16.09	18.64	17.57	18.96	21.54
Mgrs, superintendents, building	.00	.01	.01	.12	.11	.09	.01	.01	.01
Office managers, other	.45	.46	.38	1.38	1.37	1.30	.43	.44	.35
Officers, pilots, pursers, snip	.00	.00	.00	.02	.02	.01	10.30	9.40	9.39
Other managers, administrators	4.63	6.02	5.86	12.56	14.60	17.24	6.83	9.11	11.79

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Trucking service			Warehousing and storage			Water transportation		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	.91	.68	.53	1.60	1.45	1.13	.58	.46	.18
Advertising agents,sales worker	.00	.00	.00	.01	.00	.00	.01	.01	.05
Other sales workers	.90	.68	.53	1.60	1.44	1.13	.57	.44	.14
Clerical workers	11.03	10.94	9.13	21.05	19.74	17.27	14.67	15.15	16.11
Stenographers,typists,secretaries	2.36	2.35	2.10	5.36	5.06	4.88	3.64	3.77	4.53
Legal secretaries	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other secretaries	1.52	1.60	1.46	3.91	3.87	4.04	2.62	2.88	3.82
Stenographers	.05	.02	.00	.07	.03	.00	.13	.07	.02
Typists	.80	.72	.62	1.37	1.15	.82	.89	.81	.69
Office machine operators	.43	.36	.33	.67	.62	.34	.41	.35	.21
Bookkeeping and billing	.09	.04	.03	.10	.04	.01	.05	.02	.01
Calculating	.03	.01	.00	.04	.02	.01	.02	.02	.00
Computer and peripheral equip	.06	.14	.14	.13	.30	.25	.06	.12	.10
Duplicating	.00	.00	.00	.01	.01	.01	.01	.01	.01
Keypunch	.23	.16	.16	.35	.23	.06	.25	.17	.08
Other office machine operators	.02	.02	.01	.04	.02	.00	.01	.01	.01
Other clerical workers	8.24	8.22	6.70	15.03	14.06	12.06	10.62	11.03	11.38
Billing clerks	.52	.54	.45	.45	.46	.42	.27	.29	.33
Bookkeepers	1.55	1.48	1.26	3.90	3.54	3.16	1.46	1.50	1.51
Cashiers	.25	.26	.22	.13	.14	.12	.18	.20	.24
Clerical supervisors, other	.10	.11	.08	.19	.21	.19	.29	.33	.22
Collectors, bill and account	.03	.02	.02	.00	.00	.00	.01	.01	.00
Counter clerks,exc food	.05	.05	.05	.50	.51	.44	.05	.04	.04
Dispatchers,starters,vehicle	1.56	1.52	1.29	.56	.55	.49	.08	.08	.07
Enumerators and interviewers	.00	.00	.00	.00	.00	.00	.01	.02	.00
Estimators,investigators,other	.37	.38	.30	.43	.42	.19	.29	.31	.29
Expeditors,production controls	.12	.11	.09	.16	.14	.09	.17	.16	.09
File clerks	.21	.18	.16	.30	.25	.26	.27	.26	.23
Insurance adjusters,examiners	.01	.02	.01	.01	.01	.01	.02	.03	.02
Mail handlers,exc post office	.19	.18	.12	.13	.12	.07	.17	.15	.11
Messengers and office helpers	.04	.04	.02	.04	.04	.01	.06	.05	.03
Payroll,timekeeping clerks	.23	.28	.26	.21	.26	.24	.54	.64	.71
Receptionists	.10	.07	.05	.23	.17	.09	.21	.15	.08
Shipping and receiving clerks	1.22	1.38	1.42	3.40	3.29	3.58	3.14	3.35	4.64
Statistical clerks	.18	.19	.13	.32	.35	.32	.40	.44	.34
Stock clerks and store keepers	.16	.11	.04	2.09	1.71	.98	.46	.38	.16
Telephone operators	.17	.12	.09	.16	.11	.06	.29	.22	.17
Ticket,station, express agents	.18	.19	.14	.10	.11	.10	.92	1.02	.86
Weighers	.02	.01	.01	.35	.32	.16	.08	.07	.03
Misc clerical workers	1.00	1.03	.50	1.36	1.36	1.09	1.28	1.32	1.22
Crafts and kindred workers	7.07	7.10	6.53	7.62	7.87	7.50	9.77	10.59	12.14
Construction crafts workers	.25	.23	.19	.95	.82	.61	2.75	2.86	2.66
Carpenters and apprentices	.06	.06	.07	.26	.24	.15	1.29	1.36	1.19
Brick,stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.01	.01	.00
Bulldozer operators	.06	.05	.03	.11	.10	.08	.16	.14	.09
Electricians and apprentices	.03	.03	.04	.15	.16	.21	.62	.76	.90
Excavating,grading mach operatr	.05	.04	.01	.04	.02	.00	.15	.11	.14
Painters and apprentices	.04	.04	.02	.15	.14	.09	.42	.41	.26
Plumbers,pipefitters,aprentices	.01	.01	.01	.05	.04	.02	.07	.06	.08
Structural metal craft workers	.01	.01	.01	.19	.12	.06	.01	.00	.00
Blue collar worker supervisors	1.91	2.14	1.88	3.67	4.08	4.06	1.56	1.91	2.45
Metalworkg craft wrkrs,exc meca	.09	.10	.10	.08	.11	.10	.26	.34	.50
Boilermakers	.00	.00	.00	.00	.00	.00	.05	.06	.10
Machinists and apprentices	.03	.03	.03	.06	.09	.10	.19	.26	.38
Millwrights	.04	.06	.07	.02	.02	.01	.00	.00	.00
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.01	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Trucking service			Warehousing and storage			Water transportation		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	4.38	4.20	3.97	1.83	1.96	1.89	2.51	2.84	3.25
Air cond, heating, refrig mecha	.04	.06	.04	.18	.25	.25	.07	.10	.13
Aircraft mechanics	.02	.03	.03	.00	.00	.00	.00	.00	.00
Auto accessories installers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto body repairers	.06	.04	.04	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	3.97	3.75	3.49	.84	.75	.62	.24	.18	.06
Data processing mach repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.02	.02	.01	.00	.00	.00
Heavy equip mech, incl diesel	.24	.28	.33	.67	.84	.97	1.58	1.97	2.75
Household appliance mechanics	.01	.01	.00	.00	.00	.00	.00	.00	.00
Radio, television repairers	.00	.00	.00	.01	.01	.01	.06	.06	.07
Railroad, car shop repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.03	.03	.03	.09	.07	.02	.58	.53	.24
Printing trade crafts workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.02	.02	.02
Other crafts, kindred workers	.44	.43	.39	1.08	.90	.83	2.67	2.63	3.26
Bakers	.00	.00	.00	.00	.00	.00	.08	.08	.09
Cabinetmakers	.00	.01	.01	.04	.03	.01	.00	.00	.00
Carpet installers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Crane, derrick, hoist operator	.06	.05	.06	.14	.13	.24	1.43	1.30	1.78
Furniture and wood finishers	.00	.00	.00	.06	.04	.01	.00	.00	.00
Inspectors, other	.18	.20	.17	.29	.33	.31	.29	.36	.48
Shipfitters	.00	.00	.00	.00	.00	.00	.03	.03	.00
Stationary engineers	.02	.02	.01	.45	.28	.21	.60	.64	.84
Other crafts workers	.17	.15	.13	.10	.07	.05	.25	.22	.07
Operatives	66.04	65.61	70.06	28.35	29.16	34.92	20.75	19.46	18.22
Operatives, except transport	1.03	.96	.73	10.38	9.21	7.67	15.77	14.05	12.80
Semiskilled metalworking	.14	.15	.15	.16	.18	.23	.54	.63	.85
Welders and flamecutters	.13	.13	.14	.16	.18	.23	.54	.63	.85
Semiskilled packing, inspecting	.27	.27	.22	5.25	4.86	5.18	.08	.09	.13
Packer, wrapper, exc meat, prodce	.26	.27	.22	4.46	4.15	4.65	.08	.09	.13
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.79	.71	.53	.01	.00	.00
Other operatives, exc transport	.62	.54	.37	4.97	4.17	2.26	15.15	13.33	11.82
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Garage wrkr, gas station atten	.20	.14	.09	.02	.01	.01	.09	.05	.02
Meat cutters, butchers, exc mfg	.00	.00	.00	2.13	1.39	.50	.00	.00	.00
Oilers, greasers, exc automobiles	.04	.04	.01	.04	.04	.03	1.27	1.26	.75
Painters, mfg articles	.00	.00	.00	.03	.02	.00	.00	.00	.00
Riveters and fasteners	.00	.00	.00	.01	.01	.01	.01	.01	.00
Sailors and deckhands	.00	.00	.00	.00	.00	.00	12.46	10.87	10.35
Sawyers	.01	.02	.02	.03	.02	.01	.03	.04	.05
Sewers and stitchers	.00	.00	.00	.04	.04	.04	.00	.00	.00
Furnace tendr, stokr, exc metal	.01	.01	.00	.12	.09	.10	.64	.42	.27
Winding operatives, other	.00	.00	.00	.01	.00	.00	.02	.01	.00
Miscellaneous machine operatives	.07	.07	.05	1.12	1.15	.89	.22	.24	.18
Other operatives, exc transport	.28	.27	.19	1.44	1.41	.69	.39	.43	.19
Transport equipment operatives	65.02	64.65	69.32	17.97	19.96	27.25	4.98	5.41	5.43
Boat operators	.00	.00	.00	.00	.00	.00	1.42	1.18	.77
Bus drivers	.07	.09	.07	.15	.20	.04	.00	.00	.00
Delivery and route workers	2.50	2.41	2.03	1.31	1.32	1.95	.13	.13	.20
Fork lift, tow motor operatives	.34	.40	.37	5.45	6.44	6.19	2.14	2.55	2.24
Parking attendants	.02	.02	.00	.00	.00	.00	.00	.00	.00
Railroad switch operators	.03	.03	.03	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.17	.11	.08	.14	.14	.08	.15	.17	.17
Truck drivers	61.89	61.60	66.74	10.92	11.86	18.97	1.15	1.38	2.05
Service workers	.53	.44	.40	2.74	2.40	1.99	6.41	5.33	3.02
Cleaning service workers	.35	.27	.20	1.51	1.17	.69	.95	.72	.26
Lodging qtrs cleaners, exc privt	.00	.00	.00	.00	.00	.00	.03	.01	.01
Bldg interior cleaners, other	.08	.07	.05	.25	.22	.09	.26	.20	.06
Janitors and sextons	.27	.20	.15	1.26	.94	.60	.66	.51	.19
Food service workers	.03	.03	.03	.05	.05	.04	2.76	2.14	1.37
Bartenders	.00	.00	.00	.00	.00	.00	.03	.02	.01
Waiters' assistants	.00	.00	.00	.00	.00	.00	.02	.02	.02
Cooks, exc private households	.02	.01	.02	.02	.02	.01	1.82	1.53	1.11
Dishwashers	.00	.00	.00	.01	.00	.00	.04	.03	.01
Food counter, fountain workers	.00	.00	.00	.01	.01	.02	.02	.02	.02
Waiters	.01	.01	.01	.00	.00	.00	.66	.41	.19
Other food serv wkrs, exc privt	.00	.00	.00	.02	.01	.01	.18	.11	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Trucking service			Warehousing and storage			Water transportation		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.04	.03	.04	.46	.46	.36	.98	.70	.27
Flight attendants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Attendants, recreation, amusement	.00	.00	.00	.00	.00	.00	.03	.02	.00
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.11	.07	.02
Baggage porters and bellhops	.01	.01	.01	.00	.00	.00	.05	.05	.05
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.01	.01	.02
Elevator operators	.00	.00	.00	.46	.46	.36	.01	.01	.01
Housekeepers, exc private homes	.01	.01	.01	.00	.00	.00	.77	.54	.18
Protective service workers	.12	.11	.13	.72	.73	.90	1.71	1.77	1.12
Crossing guards, bridgetenders	.00	.00	.00	.00	.00	.00	.60	.76	.34
Firefighters	.00	.00	.00	.01	.01	.02	.05	.05	.07
Guards	.11	.11	.13	.71	.71	.88	.92	.84	.59
Police and detectives	.00	.00	.00	.01	.00	.00	.14	.12	.12
Laborers, except farm	8.18	7.50	6.03	22.43	21.12	16.76	25.85	25.22	24.29
Carpenter helpers	.01	.01	.01	.04	.05	.08	.07	.08	.14
Constr labr, exc carpenter help	.05	.04	.02	.08	.07	.04	.11	.11	.10
Freight and material handlers	6.72	6.14	4.95	12.90	12.29	10.09	2.43	2.38	1.70
Garbage collectors	.50	.50	.51	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.06	.06	.03	.07	.08	.11	.09	.08	.08
Longshore workers, stevedores	.09	.11	.11	.22	.22	.29	21.68	21.24	21.42
Timbercutting, logging workers	.02	.01	.00	.01	.00	.00	.10	.08	.03
Stock handlers	.05	.05	.02	2.57	2.23	.70	.04	.04	.01
Teamsters	.04	.02	.00	.03	.02	.01	.00	.00	.00
Vehicle washers, equip cleaners	.21	.18	.12	.08	.07	.02	.27	.25	.08
Warehouse labcrs, other	.24	.21	.15	5.82	5.58	5.09	.23	.24	.25
Other laborers	.19	.16	.10	.63	.51	.34	.84	.72	.49

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Air transportation			Pipelines			Transportation services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	17.47	18.37	18.97	15.77	16.95	18.08	3.77	4.08	3.53
Engineers, technical	.73	.69	.80	4.24	3.72	3.56	.44	.39	.39
Aeronautical	.23	.23	.29	.00	.00	.00	.00	.00	.00
Chemical	.00	.00	.00	.30	.27	.19	.00	.00	.00
Civil	.08	.08	.12	.70	.53	.53	.11	.07	.05
Electrical	.14	.12	.13	1.04	1.00	1.07	.07	.06	.06
Industrial	.14	.13	.13	.27	.25	.23	.05	.06	.08
Mechanical	.08	.07	.07	.86	.74	.58	.13	.13	.14
Metallurgical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Petroleum	.00	.00	.00	.50	.46	.55	.01	.00	.00
Other engineers	.06	.05	.05	.57	.48	.42	.07	.07	.06
Life and physical scientists	.08	.11	.12	.21	.19	.23	.00	.00	.01
Atmospheric and space	.06	.10	.11	.00	.00	.00	.00	.00	.00
Chemists	.01	.01	.01	.12	.12	.09	.00	.00	.00
Geologists	.00	.00	.00	.08	.07	.14	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Mathematical specialists	.06	.05	.03	.08	.08	.11	.02	.02	.02
Statisticians	.06	.05	.03	.08	.08	.11	.02	.02	.02
Engineering, science technicians	.45	.47	.54	3.11	3.02	3.33	.25	.23	.20
Chemical technicians	.01	.01	.03	.11	.10	.09	.00	.00	.00
Drafters	.05	.05	.06	1.31	1.16	1.52	.08	.06	.05
Electrical and electronic	.22	.21	.23	.75	.82	.84	.04	.05	.05
Industrial engineering	.03	.04	.03	.07	.08	.08	.00	.00	.00
Mechanical engineering	.00	.00	.00	.08	.08	.07	.00	.00	.00
Surveyors	.02	.03	.03	.27	.24	.21	.08	.06	.05
Other engineering, science tech	.12	.13	.17	.54	.54	.53	.05	.06	.05
Medical workers, exc technicians	.04	.04	.03	.07	.08	.13	.02	.02	.01
Physicians and osteopaths	.01	.01	.02	.00	.00	.00	.00	.00	.00
Registered nurses	.03	.03	.02	.07	.08	.13	.02	.02	.01
Health technologists, technicians	.01	.02	.02	.00	.00	.00	.00	.00	.00
Clinical lab technologists, tech	.01	.01	.02	.00	.00	.00	.00	.00	.00
Technicians, except health	12.29	13.13	13.59	1.27	1.54	1.49	.19	.20	.12
Airplane pilots	10.20	11.82	12.23	.66	.84	.88	.09	.09	.09
Flight engineers	1.89	1.08	1.17	.03	.02	.01	.01	.00	.00
Radio operators	.10	.10	.08	.05	.06	.03	.09	.10	.04
Other technicians except health	.09	.13	.12	.53	.62	.57	.01	.01	.00
Computer specialists	.51	.60	.68	.90	1.08	.96	.30	.38	.29
Computer programmers	.34	.36	.41	.67	.77	.71	.18	.19	.12
Computer systems analysts	.16	.21	.26	.23	.31	.25	.12	.18	.16
Other computer specialists	.02	.03	.01	.00	.00	.00	.01	.01	.01
Social scientists	.11	.15	.16	.24	.34	.29	.06	.08	.08
Economists	.10	.15	.16	.24	.34	.29	.06	.08	.08
Teachers	.80	.42	.21	.04	.04	.00	.00	.00	.00
Adult education	.03	.03	.01	.04	.04	.00	.00	.00	.00
Other teachers	.77	.39	.20	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	.50	.58	.54	.30	.29	.24	.63	.67	.62
Athletes and kindred workers	.00	.00	.00	.00	.00	.00	.03	.02	.00
Authors	.05	.04	.02	.00	.00	.00	.00	.00	.00
Designers	.03	.03	.04	.00	.00	.00	.04	.05	.03
Editors and reporters	.04	.03	.01	.07	.08	.13	.05	.05	.06
Painters and sculptors	.02	.03	.02	.00	.00	.00	.00	.00	.00
Photographers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Public relations specialists	.27	.33	.34	.09	.11	.11	.35	.41	.39
Other writers, artists, entertain	.08	.10	.10	.14	.11	.00	.16	.15	.14

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Air transportation			Pipelines			Transportation services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.90	2.12	2.25	5.32	6.58	7.75	1.86	2.10	1.80
Accountants	1.04	1.18	1.44	3.37	4.32	6.23	1.39	1.56	1.44
Architects	.03	.02	.01	.00	.00	.00	.00	.00	.00
Lawyers	.06	.09	.09	.38	.63	.36	.08	.12	.08
Operations and systems research	.16	.22	.19	.28	.35	.26	.08	.09	.05
Personnel, labor relations wkrs	.55	.57	.50	1.14	1.17	.83	.25	.27	.19
Other research workers	.05	.03	.01	.15	.11	.06	.06	.05	.03
Vocation, education counselors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	5.94	6.48	6.34	8.97	9.94	10.60	34.54	37.45	37.09
Buyers, sales, loan managers	.88	.80	.71	1.93	1.73	1.83	1.14	1.14	1.44
Bank, financial managers	.19	.16	.09	.24	.25	.31	.18	.19	.15
Credit managers	.02	.01	.01	.00	.00	.00	.04	.02	.01
Purchasing agents, buyers, other	.29	.23	.18	1.63	1.42	1.43	.35	.30	.41
Sales manager, exc retail trade	.39	.39	.43	.07	.07	.09	.57	.64	.87
Other managers, officials, proprts	5.06	5.68	5.63	7.05	8.21	8.77	33.40	36.31	35.65
Mgrs, superintendents, building	.01	.01	.01	.00	.00	.00	.02	.02	.02
Office managers, other	.24	.23	.24	.75	.71	.64	1.48	1.49	1.55
Officers, pilots, pursers, ship	.00	.00	.00	.04	.03	.00	.15	.14	.17
Restaurant, cafe, bar, managers	.02	.02	.01	.00	.00	.00	.01	.01	.01
Other managers, administrators	4.79	5.42	5.38	6.26	7.48	8.14	31.74	34.65	33.91
Sales workers	.78	.72	.70	.36	.35	.41	3.31	3.35	4.68
Advertising agents, sales worker	.02	.03	.05	.00	.00	.00	.03	.04	.04
Other sales workers	.76	.69	.64	.36	.35	.41	3.28	3.31	4.64
Clerical workers	30.45	30.10	27.49	18.11	18.17	19.33	35.46	33.07	31.27
Stenographrs, typists, secretaries	3.63	3.17	2.62	4.37	3.94	4.62	10.03	9.33	9.38
Legal secretaries	.02	.02	.01	.00	.00	.00	.03	.02	.03
Medical secretaries	.01	.01	.01	.00	.00	.00	.01	.00	.00
Other secretaries	2.53	2.37	2.18	3.20	3.26	4.13	6.63	6.49	6.69
Stenographers	.06	.03	.00	.53	.15	.00	.33	.17	.04
Typists	1.00	.75	.42	.64	.53	.49	3.03	2.65	2.62
Office machine operators	.90	1.09	.97	1.47	1.82	1.25	1.00	1.04	.78
Bookkeeping and billing	.04	.02	.01	.00	.00	.00	.11	.06	.04
Calculating	.02	.01	.01	.15	.08	.00	.08	.06	.07
Computer and peripheral equip	.36	.71	.77	.56	1.16	.89	.20	.43	.36
Duplicating	.01	.01	.01	.00	.00	.00	.03	.02	.01
Keypunch	.43	.31	.15	.67	.52	.35	.50	.40	.25
Tabulating	.01	.00	.00	.00	.00	.00	.02	.01	.00
Other office machine operators	.04	.03	.02	.10	.06	.01	.08	.08	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Air transportation			Pipelines			Transportation services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	25.92	25.84	23.90	12.27	12.41	13.47	24.44	22.70	21.11
Billing clerks	.08	.08	.05	.26	.25	.27	.45	.52	.76
Bookkeepers	1.07	.96	.82	1.54	1.61	2.11	4.03	3.81	3.79
Cashiers	.18	.19	.20	.08	.07	.01	2.71	2.94	3.38
Clerical supervisors, other	.34	.36	.34	.91	.94	.67	.41	.47	.47
Collectors, bill and account	.02	.02	.02	.00	.00	.00	.01	.01	.00
Counter clerks, exc food	.09	.09	.10	.20	.20	.19	.20	.20	.28
Dispatchers, starters, vehicle	.13	.12	.13	.17	.17	.23	.31	.33	.39
Estimators, investigators, other	.35	.38	.38	.50	.61	.61	.66	.77	.63
Expeditors, production controlrs	.47	.41	.34	.89	.84	.71	.22	.24	.30
File clerks	.20	.16	.15	.27	.12	.01	.67	.55	.49
Mail handlers, exc post office	.15	.13	.12	.00	.00	.00	.38	.36	.32
Messengers and office helpers	.03	.02	.01	.11	.11	.12	.38	.33	.17
Payroll, timekeeping clerks	.14	.14	.10	.17	.16	.08	.23	.26	.22
Receptionists	.28	.23	.14	.28	.24	.22	.75	.72	.68
Shipping and receiving clerks	.42	.41	.46	.33	.33	.52	2.19	2.03	2.25
Statistical clerks	.67	.69	.62	2.68	3.06	3.72	.60	.68	.71
Stock clerks and store keepers	1.19	.86	.54	.34	.24	.09	.22	.20	.19
Telephone operators	.13	.06	.03	.36	.26	.34	.35	.22	.14
Ticket, station, express agents	18.13	18.74	18.26	.42	.48	.64	4.78	3.07	.40
Weighers	.02	.02	.02	.00	.00	.00	.37	.38	.52
Misc clerical workers	1.83	1.77	1.09	2.77	2.72	2.93	4.51	4.62	5.02
Crafts and kindred workers	18.88	18.91	18.79	27.51	27.20	30.60	4.90	5.04	5.28
Construction crafts workers	1.15	1.00	.83	3.96	3.64	3.87	.89	.89	.99
Carpenters and apprentices	.11	.12	.11	.13	.10	.05	.31	.30	.31
Bulldozer operators	.05	.04	.05	.15	.15	.20	.03	.03	.04
Cement and concrete finishers	.02	.02	.00	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.56	.48	.49	1.39	1.26	.93	.24	.24	.25
Excavating, grading mach operatr	.05	.04	.02	.59	.56	.80	.06	.06	.09
Painters and apprentices	.31	.25	.11	.26	.22	.14	.18	.19	.22
Plumbers, pipefitters, aprentices	.05	.05	.05	1.43	1.36	1.76	.07	.07	.08
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	1.68	1.79	1.81	5.21	5.60	6.23	1.32	1.38	1.31
Metalworkg craft wrkrs, exc meca	.85	.67	.60	.57	.63	.83	.10	.11	.13
Machinists and apprentices	.33	.30	.35	.57	.63	.83	.10	.11	.13
Sheetmetal workers, apprentices	.50	.35	.22	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.02	.02	.02	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	14.90	15.19	15.28	5.21	5.65	7.02	1.58	1.68	1.95
Air cond, heating, refrig mech	.12	.19	.21	.07	.10	.13	.17	.21	.16
Aircraft mechanics	12.80	13.25	13.50	.19	.09	.01	.06	.04	.00
Auto body repairers	.03	.02	.02	.00	.00	.00	.02	.01	.01
Auto mechanics and apprentices	.43	.35	.27	.58	.62	1.02	.38	.36	.41
Data processing mach repairers	.02	.02	.02	.04	.04	.05	.00	.00	.00
Heavy equip mech, incl diesel	.34	.43	.59	3.19	3.75	4.78	.33	.42	.59
Household appliance mechanics	.00	.00	.00	.49	.56	.78	.03	.03	.01
Radio, television repairers	.57	.43	.29	.23	.19	.21	.02	.01	.02
Railroad, car shop repairers	.01	.01	.01	.00	.00	.00	.44	.48	.65
Other mechanics and apprentices	.58	.50	.38	.43	.29	.06	.12	.11	.07
Printing trade crafts workers	.00	.00	.00	.07	.06	.00	.09	.09	.08
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.08	.08	.07
Press, plate printers, apprentices	.00	.00	.00	.07	.06	.00	.01	.01	.01
Transport, public util craft wrks	.01	.01	.00	.40	.35	.21	.05	.05	.05
Elec pwr line instaler, repairer	.01	.01	.00	.08	.05	.01	.01	.01	.01
Locomotive engineers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Locomotive engineers' helpers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Power station operators	.00	.00	.00	.21	.20	.17	.01	.01	.01
Telephone line instaln, splicers	.00	.00	.00	.11	.09	.03	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Air transportation			Pipelines			Transportation services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.29	.26	.27	12.11	11.29	12.44	.88	.83	.77
Bakers	.02	.03	.03	.00	.00	.00	.00	.00	.00
Cabinetmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Crane, derrick, hoist operator	.01	.01	.01	.00	.00	.00	.14	.12	.18
Inspectors, other	.06	.06	.06	2.09	2.45	3.00	.50	.51	.44
Stationary engineers	.10	.09	.11	9.89	8.76	9.42	.17	.13	.07
Upholsterers	.07	.05	.04	.00	.00	.00	.00	.00	.00
Other crafts workers	.02	.01	.01	.12	.08	.03	.08	.08	.08
Operatives	6.92	6.77	6.18	19.22	18.99	15.14	6.63	6.38	6.81
Operatives, except transport	5.82	5.67	4.76	16.55	16.65	13.06	1.88	1.77	1.89
Semiskilled metalworking	.30	.27	.27	1.64	1.77	2.36	.21	.22	.28
Lathe, milling mach operatives	.02	.01	.01	.00	.00	.00	.00	.00	.00
Metal platers	.05	.04	.03	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.21	.20	.22	1.64	1.77	2.36	.21	.22	.28
Semiskilled packing, inspecting	.11	.11	.10	.15	.11	.00	.58	.52	.46
Packer, wrapper, exc meat, produce	.11	.11	.10	.15	.11	.00	.57	.51	.46
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.00	.00	.00	.01	.01	.00
Other operatives, exc transport	5.41	5.29	4.40	14.75	14.77	10.71	1.10	1.03	1.15
Cutting operatives, other	.00	.00	.00	.13	.13	.14	.00	.00	.00
Drillers, earth	.00	.00	.00	.04	.03	.01	.00	.00	.00
Filer, polisher, sander, buffer	.01	.01	.01	.00	.00	.00	.04	.03	.03
Garage wrkr, gas station atten	.03	.02	.01	.00	.00	.00	.03	.02	.02
Mixing operatives	.00	.00	.00	.04	.03	.01	.00	.00	.00
Oilers, greasers, exc automobiles	.00	.00	.00	.40	.27	.06	.05	.04	.01
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.07	.05	.04
Photographic process workers	.00	.00	.00	.09	.11	.16	.02	.02	.02
Riveters and fasteners	.00	.00	.00	.00	.00	.00	.02	.01	.00
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.30	.24	.29
Sewers and stitchers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.03	.03	.04	.00	.00	.00	.08	.03	.00
Miscellaneous machine operatives	.05	.05	.04	1.00	1.07	1.14	.19	.22	.27
Other operatives, exc transport	5.27	5.16	4.29	13.05	13.13	9.19	.31	.37	.46
Transport equipment operatives	1.11	1.11	1.42	2.67	2.34	2.07	4.75	4.60	4.92
Boat operators	.00	.00	.00	.00	.00	.00	.03	.03	.03
Bus drivers	.06	.08	.07	.04	.06	.05	.37	.55	.14
Delivery and route workers	.20	.19	.18	.62	.50	.41	.35	.31	.35
Fork lift, tow motor operatives	.05	.06	.04	.00	.00	.00	.43	.54	.70
Rail vehicle operators, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Parking attendants	.00	.00	.00	.00	.00	.00	.02	.01	.00
Railroad brake operators	.00	.00	.00	.00	.00	.00	.01	.01	.02
Railroad switch operators	.00	.00	.00	.00	.00	.00	.03	.03	.05
Taxicab drivers, chauffeurs	.14	.08	.07	.04	.04	.07	.92	.57	.12
Truck drivers	.65	.70	1.06	1.97	1.74	1.55	2.59	2.55	3.51
Service workers	14.71	14.28	17.90	1.99	1.78	1.37	4.00	3.46	3.57
Cleaning service workers	2.04	1.83	1.81	1.30	1.10	.63	.90	.89	.88
Bldg interior cleaners, other	.41	.34	.31	.23	.19	.10	.30	.32	.34
Janitors and sextons	1.63	1.49	1.51	1.07	.91	.53	.59	.57	.55
Food service workers	1.18	.78	.67	.31	.33	.46	.40	.25	.13
Bartenders	.01	.01	.03	.00	.00	.00	.01	.01	.01
Waiters' assistants	.04	.04	.05	.00	.00	.00	.01	.01	.03
Cooks, exc private households	.28	.20	.15	.04	.03	.01	.22	.12	.03
Dishwashers	.08	.04	.01	.00	.00	.00	.04	.03	.02
Food counter, fountain workers	.03	.03	.04	.19	.24	.43	.01	.02	.02
Waiters	.20	.13	.13	.00	.00	.00	.08	.04	.00
Other food serv wkrs, exc privt	.55	.33	.28	.09	.06	.03	.03	.02	.03
Health service workers	.02	.03	.02	.00	.00	.00	.00	.00	.00
Health aides, except nursing	.01	.01	.01	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Air transportation			Pipelines			Transportation services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	10.89	10.98	14.52	.12	.11	.11	1.76	1.50	1.84
Flight attendants	9.72	10.36	13.96	.12	.11	.11	.13	.12	.07
Attendants, recreation, amusement	.01	.01	.00	.00	.00	.00	.20	.18	.27
Attendants, personal serv, other	.08	.06	.03	.00	.00	.00	1.25	1.06	1.29
Baggage porters and bellhops	.67	.33	.35	.00	.00	.00	.02	.02	.10
Barbers	.05	.01	.01	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.01	.01	.01	.00	.00	.00	.00	.00	.00
Elevator operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Housekeepers, exc private homes	.35	.21	.16	.00	.00	.00	.15	.12	.10
Protective service workers	.58	.67	.88	.26	.24	.16	.94	.83	.72
Crossing guards, bridgetenders	.01	.01	.01	.00	.00	.00	.37	.30	.29
Firefighters	.14	.17	.18	.00	.00	.00	.00	.00	.00
Guards	.33	.38	.57	.26	.24	.16	.41	.42	.38
Police and detectives	.11	.12	.11	.00	.00	.00	.15	.12	.05
Laborers, except farm	4.86	4.37	3.64	8.07	6.64	4.47	7.39	7.17	7.76
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	1.06	1.18	1.02
Carpenter helpers	.01	.02	.02	.00	.00	.00	.04	.04	.07
Constr labr, exc carpenter help	.06	.05	.05	6.92	5.54	3.23	.15	.14	.14
Freight and material handlers	2.58	2.38	2.20	.61	.60	.63	2.80	2.78	3.26
Garbage collectors	.01	.01	.01	.05	.06	.08	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.18	.25	.25	.00	.00	.00	.08	.08	.07
Longshore workers, stevedores	.01	.01	.00	.00	.00	.00	.91	.84	.94
Stock handlers	.47	.40	.16	.00	.00	.00	.09	.10	.12
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	1.34	1.08	.78	.00	.00	.00	.96	.88	1.08
Warehouse labcrers, other	.06	.06	.06	.00	.00	.00	.20	.17	.11
Other laborers	.14	.12	.12	.50	.45	.53	1.10	.94	.94

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Communicatn, utilities, sanitary srv			Communica- tions			Telephone (wire and radio)		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	10.83	12.12	13.49	12.74	14.90	18.68	7.58	8.71	12.95
Engineers, technical	3.59	3.59	4.43	3.76	3.75	5.66	3.51	3.61	6.15
Chemical	.03	.04	.05	.00	.00	.00	.00	.00	.00
Civil	.37	.32	.37	.11	.10	.15	.12	.10	.17
Electrical	2.58	2.65	3.46	3.34	3.37	5.28	3.09	3.23	5.78
Industrial	.12	.13	.11	.10	.10	.07	.10	.10	.07
Mechanical	.24	.24	.24	.05	.05	.05	.04	.04	.03
Sales	.04	.03	.03	.01	.00	.00	.00	.00	.00
Other engineers	.20	.17	.17	.15	.13	.11	.15	.13	.11
Life and physical scientists	.14	.17	.15	.04	.06	.05	.02	.02	.02
Atmospheric and space	.01	.02	.02	.02	.04	.03	.00	.00	.00
Biological	.01	.03	.03	.00	.00	.00	.00	.00	.00
Chemists	.08	.09	.07	.01	.01	.01	.01	.01	.01
Geologists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.05	.05	.04	.05	.05	.03	.06	.05	.04
Statisticians	.05	.04	.03	.05	.04	.02	.05	.05	.03
Engineering, science technicians	1.89	2.07	2.31	1.86	2.21	2.63	.91	1.00	1.40
Chemical technicians	.06	.07	.08	.00	.00	.00	.00	.00	.00
Drafters	.60	.55	.61	.35	.33	.51	.39	.38	.61
Electrical and electronic	.83	1.02	1.11	1.31	1.65	1.84	.33	.41	.54
Industrial engineering	.01	.01	.01	.00	.01	.00	.00	.00	.00
Mathematical technicians	.01	.01	.01	.01	.02	.02	.00	.00	.00
Surveyors	.11	.12	.13	.01	.01	.02	.01	.01	.03
Other engineering, science tech	.27	.30	.36	.18	.20	.23	.18	.19	.22
Medical workers, exc technicians	.04	.04	.05	.04	.04	.07	.04	.05	.09
Physicians and osteopaths	.01	.01	.02	.01	.01	.03	.01	.01	.03
Registered nurses	.03	.03	.03	.03	.03	.05	.03	.04	.06
Health technologists, technicians	.02	.04	.02	.00	.00	.00	.00	.00	.00
Other health technicians	.02	.03	.02	.00	.00	.00	.00	.00	.00
Technicians, except health	.42	.54	.46	.56	.75	.64	.11	.16	.22
Airplane pilots	.02	.02	.02	.01	.01	.01	.00	.00	.00
Radio operators	.26	.32	.20	.42	.53	.36	.02	.03	.01
Other technicians except health	.14	.20	.23	.14	.21	.27	.08	.13	.21
Computer specialists	.44	.57	.76	.49	.68	1.15	.51	.73	1.36
Computer programers	.29	.35	.43	.31	.39	.62	.32	.41	.72
Computer systems analysts	.13	.19	.30	.16	.25	.48	.17	.27	.57
Other computer specialists	.02	.03	.03	.02	.04	.05	.02	.05	.06
Social scientists	.13	.21	.20	.13	.22	.24	.12	.20	.23
Economists	.13	.20	.19	.12	.20	.22	.12	.20	.23
Psychologists	.00	.01	.01	.00	.01	.02	.00	.00	.00
Teachers	.02	.02	.01	.04	.03	.01	.03	.03	.01
Adult education	.02	.02	.01	.03	.03	.01	.03	.03	.01
Writers, artists, entertainers	2.24	2.70	3.13	3.98	4.94	5.85	.46	.66	.98
Actors	.03	.04	.05	.07	.07	.10	.00	.00	.00
Authors	.04	.04	.07	.07	.08	.15	.02	.03	.07
Designers	.11	.14	.16	.10	.14	.23	.08	.13	.23
Editors and reporters	.46	.59	.83	.88	1.17	1.65	.06	.08	.15
Musicians and composers	.03	.03	.02	.05	.05	.04	.00	.00	.00
Painters and sculptors	.06	.07	.04	.10	.13	.07	.00	.00	.00
Photographers	.08	.09	.14	.13	.15	.27	.01	.01	.01
Public relations specialists	.31	.39	.44	.33	.46	.56	.25	.35	.46
Radio and tv announcers	.93	1.05	1.13	1.86	2.14	2.28	.00	.00	.00
Other writers, artists, entertain	.21	.27	.25	.40	.54	.50	.04	.06	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Communicatn, utilities, sanitary srv			Communica- tions			Telephone (wire and radio)		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.86	2.12	1.93	1.81	2.17	2.35	1.82	2.22	2.46
Accountants	.96	1.08	1.07	.77	.95	1.25	.73	.91	1.27
Architects	.02	.01	.01	.01	.01	.01	.02	.01	.01
Foresters and conservationists	.03	.04	.06	.00	.00	.00	.00	.00	.00
Home management advisors	.05	.04	.03	.00	.00	.00	.00	.00	.00
Lawyers	.09	.17	.12	.07	.14	.14	.06	.11	.11
Librarians	.01	.01	.01	.02	.02	.02	.01	.01	.01
Operations and systems research	.10	.15	.14	.11	.16	.17	.11	.17	.19
Personnel, labor relations wkrs	.56	.60	.48	.77	.85	.74	.85	.97	.86
Other research workers	.03	.02	.01	.03	.02	.01	.03	.02	.00
Social workers	.00	.00	.01	.01	.01	.01	.01	.01	.01
Managers, officials, proprietors	6.78	8.47	7.39	8.10	10.72	7.81	6.27	8.77	4.94
Buyers, sales, loan managers	.63	.60	.58	.57	.58	.57	.37	.35	.28
Bank, financial managers	.08	.08	.05	.09	.09	.05	.06	.06	.01
Credit managers	.04	.02	.02	.01	.01	.01	.01	.01	.01
Purchasing agents, buyers, other	.25	.22	.19	.11	.09	.06	.10	.08	.05
Sales manager, exc retail trade	.25	.27	.32	.36	.40	.46	.20	.21	.21
Other managers, officials, proprts	6.15	7.87	6.81	7.53	10.13	7.23	5.91	8.42	4.66
Mgrs, superintendents, building	.01	.01	.02	.01	.01	.03	.01	.01	.02
Office managers, other	.46	.49	.57	.51	.56	.66	.43	.48	.60
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other managers, administrators	5.68	7.36	6.21	7.00	9.55	6.53	5.46	7.92	4.03
Sales workers	1.25	1.49	2.04	1.65	2.29	3.42	.81	.97	1.45
Advertising agents, sales worker	.52	.80	1.23	1.03	1.62	2.48	.11	.16	.25
Demonstrators	.02	.02	.04	.00	.00	.00	.00	.00	.00
Other sales wrkers	.71	.68	.77	.62	.67	.94	.70	.81	1.20
Clerical workers	32.41	29.25	27.56	45.52	40.78	38.77	49.41	45.13	43.29
Stenographers, typists, secretaries	4.50	4.41	5.54	5.26	5.49	7.77	4.34	4.54	6.85
Legal secretaries	.03	.02	.03	.02	.02	.02	.01	.01	.01
Other secretaries	2.48	2.67	3.64	2.72	3.10	4.82	1.96	2.27	3.79
Stenographers	.29	.16	.07	.24	.15	.09	.27	.18	.10
Typists	1.70	1.56	1.81	2.29	2.22	2.83	2.09	2.07	2.95
Office machine operators	1.12	1.24	1.05	1.24	1.41	1.24	1.35	1.58	1.44
Bookkeeping and billing	.09	.05	.03	.07	.03	.01	.07	.03	.01
Calculating	.06	.03	.02	.07	.04	.01	.08	.04	.01
Computer and peripheral equip	.31	.68	.76	.37	.83	.99	.39	.92	1.17
Duplicating	.03	.02	.02	.04	.03	.01	.04	.03	.01
Keypunch	.56	.40	.19	.62	.44	.18	.69	.51	.21
Tabulating	.03	.01	.00	.03	.01	.00	.03	.01	.00
Other office machine operators	.05	.05	.03	.05	.05	.03	.05	.05	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Communicatn, utilities, sanitary srv			Communica- tions			Telephone (wire and radio)		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	26.79	23.60	20.97	39.03	33.87	29.76	43.72	39.02	35.00
Billing clerks	.40	.43	.50	.32	.36	.43	.34	.39	.47
Bookkeepers	1.91	1.89	2.06	1.68	1.83	2.50	1.44	1.59	2.30
Cashiers	.57	.57	.53	.42	.41	.32	.46	.47	.38
Clerical supervisors, other	.79	.87	.86	1.12	1.26	1.24	1.28	1.50	1.53
Collectors, bill and account	.25	.23	.17	.13	.11	.05	.15	.13	.06
Counter clerks,exc food	.44	.44	.49	.78	.80	.86	.90	.96	1.07
Dispatchers,starters,vehicle	.18	.18	.21	.15	.16	.17	.17	.18	.20
Estimators,investigators,other	1.20	1.29	.78	1.09	1.14	.56	1.24	1.34	.67
Expeditors,prduction controlrs	.21	.21	.20	.22	.21	.15	.19	.18	.12
File clerks	.47	.41	.50	.64	.59	.82	.71	.68	1.00
Library attendants, assistants	.02	.02	.00	.03	.03	.01	.03	.03	.01
Mail handlers,exc post office	.22	.21	.20	.26	.26	.23	.25	.25	.23
Messengers and office helpers	.07	.07	.05	.11	.11	.08	.06	.06	.03
Meter readers,utilities	1.71	1.61	1.53	.00	.00	.00	.00	.00	.00
Payroll,timekeeping clerks	.38	.44	.40	.38	.48	.49	.40	.52	.53
Receptionists	.27	.25	.20	.35	.33	.26	.23	.20	.10
Shipping and receiving clerks	.09	.09	.14	.09	.11	.21	.08	.09	.19
Statistical clerks	1.40	1.47	1.33	1.83	2.02	1.93	2.10	2.41	2.37
Stock clerks and store keepers	.51	.41	.27	.34	.24	.09	.37	.27	.10
Telegraph messengers	.12	.10	.03	.23	.21	.05	.00	.00	.00
Telegraph operators	.18	.20	.14	.36	.40	.29	.06	.10	.21
Telephone operators	10.05	6.73	4.86	19.71	13.56	9.68	23.29	16.74	12.24
Weighers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Misc clerical workers	5.34	5.45	5.51	8.79	9.29	9.36	9.98	10.95	11.22
Crafts and kindred workers	32.17	32.65	32.37	29.64	29.18	29.39	33.71	34.38	35.61
Construction crafts workers	3.11	3.29	3.43	.43	.52	.72	.40	.49	.70
Carpenters and apprentices	.20	.27	.26	.06	.08	.12	.03	.04	.06
Brick,stonemasons, apprentices	.03	.03	.02	.00	.00	.00	.00	.00	.00
Bulldozer operators	.28	.26	.26	.01	.01	.02	.01	.01	.03
Cement and concrete finishers	.02	.02	.02	.00	.00	.01	.00	.00	.00
Electricians and apprentices	1.21	1.37	1.32	.14	.16	.23	.11	.13	.22
Excavating,grading mach operatr	.36	.33	.32	.02	.01	.01	.02	.02	.01
Painters and apprentices	.12	.13	.11	.03	.03	.03	.02	.02	.01
Plumbers,pipefitters,aprentices	.86	.86	1.10	.18	.23	.30	.21	.28	.37
Structural metal craft workers	.02	.03	.02	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	3.44	3.78	3.99	1.74	2.17	3.65	1.91	2.44	4.25
Metalworkg craft wrkrs,exc mech	.35	.55	.81	.01	.01	.00	.01	.01	.00
Blacksmiths	.01	.01	.01	.00	.00	.00	.00	.00	.00
Boilermakers	.13	.27	.46	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.16	.21	.29	.00	.00	.00	.00	.00	.00
Millwrights	.02	.02	.02	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.02	.02	.02	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.01	.01	.02	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	4.52	4.61	4.40	.90	.93	1.25	.67	.71	1.04
Air cond, heating, refrig meca	.17	.23	.24	.05	.09	.10	.06	.10	.11
Auto mechanics and apprentices	.61	.53	.45	.20	.16	.20	.23	.19	.25
Data processing mach repairers	.02	.03	.04	.03	.05	.09	.03	.04	.08
Heavy equip mech, incl diesel	.84	1.03	1.26	.12	.15	.24	.10	.13	.21
Household appliance mechanics	1.86	1.82	1.53	.02	.02	.01	.01	.01	.01
Office machine repairers	.02	.02	.04	.04	.04	.08	.05	.04	.09
Radio, television repairers	.24	.23	.31	.37	.37	.52	.15	.16	.27
Other mechanics and apprentices	.74	.73	.52	.07	.05	.01	.06	.04	.01
Printing trade crafts workers'	.07	.08	.11	.07	.10	.21	.05	.08	.17
Compositors and typesetters	.04	.04	.06	.04	.06	.11	.03	.04	.08
Press,plate printers,aprentices	.03	.03	.05	.03	.05	.09	.02	.04	.09
Transport,public util craft wrkrs	17.35	16.96	15.61	26.06	25.06	23.25	30.24	30.22	29.07
Elec pwr line instaler,repairer	3.73	4.06	3.72	.16	.10	.01	.16	.10	.01
Power station operators	.56	.63	.38	.01	.01	.03	.01	.02	.03
Telephone installers,repairers	10.77	10.02	9.47	21.41	20.41	19.12	25.02	24.83	23.96
Telephone line instalr,splicers	2.28	2.25	2.04	4.49	4.53	4.10	5.06	5.28	5.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Communicatn, utilities, sanitary srv			Communica- tions			Telephone (wire and radio)		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	3.34	3.38	4.02	.43	.40	.32	.43	.44	.38
Crane,derrick,hoist operator	.15	.13	.17	.01	.01	.01	.00	.00	.00
Inspectors, other	.75	.79	.73	.16	.19	.21	.18	.22	.27
Stationary engineers	2.21	2.25	2.96	.09	.07	.04	.06	.05	.04
Other crafts workers	.23	.21	.17	.16	.14	.06	.19	.16	.07
Operatives	5.32	5.38	6.15	.67	.70	.83	.67	.72	.88
Operatives,except transport	2.45	2.39	2.07	.37	.39	.36	.37	.39	.38
Semiskilled metalworking	.44	.47	.49	.03	.03	.04	.03	.03	.05
Punch,stamping press operatives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Solderers	.01	.01	.01	.01	.01	.01	.02	.02	.01
Welders and flamecutters	.42	.45	.47	.01	.02	.03	.01	.02	.03
Semiskilled packing, inspecting	.02	.02	.02	.01	.01	.03	.01	.02	.03
Packer,wrapper,exc meat,prode	.02	.02	.02	.01	.01	.03	.01	.02	.03
Other operatives, exc transport	1.99	1.90	1.56	.33	.34	.30	.32	.35	.30
Asbestos,insulation workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.01	.01	.01	.00	.01	.01	.01	.01	.02
Drillers, earth	.01	.02	.01	.00	.00	.00	.00	.00	.00
Garage wrkr,gas station atten	.06	.04	.03	.00	.00	.00	.00	.00	.00
Oilers,greasers,exc automobiles	.09	.06	.03	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.01	.01	.01	.00	.00	.00	.00	.00	.00
Photographic process workers	.03	.04	.05	.04	.05	.08	.02	.03	.05
Furnace tendr,stokr,exc metal	.40	.26	.24	.01	.00	.01	.01	.01	.02
Winding operatives, other	.01	.01	.01	.01	.01	.01	.02	.02	.01
Miscellaneous machine operatives	.28	.29	.26	.07	.08	.07	.07	.07	.06
Other operatives,exc transport	1.06	1.13	.90	.19	.20	.12	.21	.22	.14
Transport equipment operatives	2.87	2.99	4.09	.30	.31	.47	.31	.32	.50
Bus drivers	.02	.03	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.15	.14	.19	.12	.12	.21	.12	.13	.25
Fork lift,tow motor operatives	.03	.03	.03	.01	.01	.02	.01	.01	.02
Railroad switch operators	.03	.03	.03	.05	.05	.05	.04	.04	.04
Taxicab drivers, chauffeurs	.07	.05	.01	.03	.03	.01	.03	.02	.01
Truck drivers	2.56	2.70	3.80	.10	.11	.18	.11	.12	.18
Service workers	1.92	1.71	1.28	1.22	1.01	.71	1.13	.93	.55
Cleaning service workers	1.47	1.30	.85	.85	.69	.40	.81	.66	.27
Bldg interior cleaners, other	.22	.20	.14	.21	.20	.14	.20	.18	.10
Janitors and sextons	1.26	1.10	.70	.64	.49	.25	.61	.48	.17
Food service workers	.11	.08	.05	.15	.10	.06	.17	.12	.06
Cooks,exc private households	.04	.02	.01	.05	.03	.01	.05	.03	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.01	.01	.02
Food counter,fountain workers	.02	.02	.01	.04	.03	.02	.04	.04	.02
Waiters	.02	.01	.01	.02	.01	.01	.03	.02	.01
Other food serv wkrs,exc privt	.03	.02	.01	.04	.02	.01	.05	.03	.01
Personal service workers	.08	.07	.05	.11	.10	.07	.07	.06	.03
Attendants, personal serv,other	.03	.03	.02	.05	.04	.01	.03	.02	.01
Elevator operators	.02	.01	.01	.02	.02	.01	.02	.02	.01
Hairdressers and cosmetologists	.01	.01	.02	.02	.03	.03	.00	.00	.00
Housekeepers, exc private homes	.02	.01	.01	.03	.02	.01	.02	.02	.01
Protective service workers	.25	.26	.33	.10	.11	.19	.08	.10	.19
Crossing guards,bridgetenders	.01	.01	.01	.00	.00	.00	.00	.00	.00
Guards	.22	.23	.30	.09	.10	.17	.07	.09	.17
Police and detectives	.02	.02	.01	.01	.01	.02	.01	.01	.02
Laborers, except farm	9.33	8.94	9.72	.47	.44	.42	.42	.40	.34
Carpenter helpers	.04	.04	.03	.00	.00	.00	.00	.00	.00
Constr labr,exc carpenter helpr	1.39	1.23	.88	.08	.07	.04	.09	.08	.05
Freight and material handlers	.27	.28	.28	.11	.12	.15	.04	.04	.04
Garbage collectors	3.58	3.76	5.52	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.23	.25	.23	.04	.04	.03	.03	.03	.02
Stock handlers	.06	.06	.04	.04	.04	.02	.05	.04	.02
Vehicle washers,equip cleaners	.10	.10	.05	.07	.07	.03	.09	.08	.04
Warehouse labcrers, other	.10	.10	.10	.04	.04	.08	.04	.05	.10
Other laborers	3.55	3.12	2.60	.08	.07	.07	.09	.08	.09

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Telegraph, misc comun- ication srv			Radio and tv broadcastng			Utilities and sanitory services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	13.56	15.91	19.30	48.46	48.05	43.86	8.91	9.47	8.45
Engineers,technical	3.19	3.29	4.70	5.71	4.66	3.72	3.42	3.44	3.23
Chemical	.00	.00	.00	.00	.00	.00	.06	.07	.09
Civil	.10	.09	.17	.07	.06	.06	.63	.54	.59
Electrical	2.59	2.74	4.00	5.31	4.33	3.38	1.83	1.96	1.70
Industrial	.11	.14	.20	.06	.06	.06	.13	.15	.15
Mechanical	.10	.11	.20	.12	.11	.12	.42	.43	.42
Petroleum	.00	.00	.00	.00	.00	.00	.02	.01	.01
Sales	.02	.01	.00	.01	.00	.00	.08	.06	.05
Other engineers	.27	.21	.13	.13	.10	.11	.24	.21	.22
Life and physical scientists	.04	.04	.02	.16	.26	.19	.24	.27	.25
Atmospheric and space	.00	.00	.00	.16	.26	.19	.00	.00	.00
Biological	.00	.00	.00	.00	.00	.00	.03	.05	.06
Chemists	.00	.00	.00	.00	.00	.00	.16	.16	.14
Geologists	.00	.00	.00	.00	.00	.00	.03	.03	.04
Marine	.00	.00	.00	.00	.00	.00	.01	.02	.01
Physicists and astronomers	.04	.04	.02	.00	.00	.00	.01	.01	.01
Mathematical specialists	.08	.05	.00	.02	.02	.00	.06	.05	.05
Mathematicians	.02	.01	.00	.00	.00	.00	.01	.01	.00
Statisticians	.06	.04	.00	.02	.02	.00	.05	.05	.05
Engineering,science technicians	4.45	5.14	6.87	7.54	7.69	7.00	1.91	1.95	2.01
Chemical technicians	.00	.00	.00	.00	.00	.00	.13	.14	.16
Drafters	.33	.31	.50	.08	.07	.08	.84	.75	.70
Electrical and electronic	3.59	4.21	5.34	7.26	7.42	6.69	.35	.42	.41
Industrial engineering	.01	.01	.01	.02	.03	.02	.01	.01	.01
Mathematical technicians	.28	.32	.56	.00	.00	.00	.00	.00	.00
Mechanical engineering	.01	.01	.01	.00	.00	.00	.00	.00	.00
Surveyors	.00	.00	.00	.00	.00	.00	.22	.23	.23
Other engineering,science tech	.22	.26	.46	.17	.18	.21	.35	.40	.49
Medical workers,exc technicians	.04	.03	.01	.02	.02	.01	.04	.04	.03
Physicians and osteopaths	.01	.01	.00	.00	.00	.00	.01	.01	.01
Registered nurses	.02	.02	.01	.02	.02	.01	.03	.03	.02
Health technolcists,technicians	.02	.02	.01	.01	.02	.00	.05	.07	.05
Other health technicians	.02	.02	.01	.00	.00	.00	.04	.06	.04
Technicians,except health	1.96	2.51	2.33	3.22	3.36	2.08	.27	.33	.28
Airplane pilots	.02	.02	.00	.03	.04	.06	.03	.03	.04
Radio operators	.64	.72	.36	3.10	3.19	1.88	.11	.12	.05
Tool programers,numerical	.00	.00	.00	.00	.00	.01	.00	.00	.00
Other technicians except health	1.31	1.77	1.97	.10	.12	.13	.14	.18	.19
Computer specialists	.97	1.30	1.44	.15	.18	.18	.39	.47	.38
Computer programers	.58	.70	.83	.11	.11	.10	.27	.31	.26
Computer systems analysts	.34	.51	.56	.04	.06	.07	.10	.14	.12
Other computer specialists	.05	.09	.06	.01	.01	.01	.01	.02	.01
Social scientists	.25	.40	.46	.15	.26	.22	.13	.20	.16
Economists	.25	.40	.46	.12	.16	.14	.13	.20	.16
Psychologists	.00	.00	.00	.03	.09	.08	.00	.00	.00
Teachers	.05	.04	.01	.07	.05	.04	.01	.01	.01
Adult education	.05	.04	.01	.00	.00	.00	.01	.01	.01
Preschool and kindergarten	.00	.00	.00	.07	.05	.04	.00	.00	.00
Writers,artists,entertainers	.56	.61	.52	29.76	29.74	28.71	.49	.56	.49
Actors	.00	.00	.00	.55	.50	.54	.00	.00	.00
Authors	.00	.00	.00	.47	.41	.54	.00	.00	.00
Dancers	.00	.00	.00	.02	.01	.02	.00	.00	.00
Designers	.06	.05	.01	.18	.22	.27	.12	.14	.10
Editors and reporters	.10	.13	.18	6.85	7.45	8.64	.04	.04	.04
Musicians and composers	.00	.00	.00	.44	.36	.21	.00	.00	.00
Painters and sculptors	.00	.00	.00	.81	.85	.40	.01	.02	.02
Photographers	.05	.03	.01	.99	.96	1.51	.03	.02	.02
Public relations specialists	.13	.18	.21	.98	1.17	1.10	.28	.33	.31
Radio and tv announcers	.06	.04	.01	15.49	14.49	12.94	.00	.00	.01
Other writers,artists,entertain	.16	.18	.11	2.96	3.32	2.55	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Telegraph, misc comun- ication srv			Radio and tv broadcastng			Utilities and sanitary services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.97	2.49	2.94	1.64	1.81	1.71	1.91	2.07	1.51
Accountants	.91	1.16	1.60	1.01	1.09	1.09	1.14	1.20	.88
Architects	.00	.00	.00	.00	.00	.00	.02	.02	.01
Foresters and conservationists	.00	.00	.00	.00	.00	.00	.06	.07	.12
Home management advisors	.00	.00	.00	.00	.00	.00	.10	.08	.06
Lawyers	.16	.30	.23	.17	.25	.23	.11	.19	.11
Librarians	.00	.00	.00	.14	.11	.08	.00	.00	.00
Operations and systems research	.20	.29	.31	.03	.04	.06	.10	.14	.11
Personnel, labor relations wkrs	.59	.67	.68	.27	.28	.25	.35	.36	.22
Other research workers	.10	.07	.12	.00	.00	.00	.03	.03	.01
Recreation workers	.00	.00	.00	.03	.04	.02	.00	.00	.00
Managers, officials, proprietors	14.73	16.82	18.11	18.40	19.10	17.89	5.45	6.33	6.98
Buyers, sales, loan managers	.92	.87	.79	1.90	1.74	1.80	.68	.62	.59
Bank, financial managers	.22	.22	.20	.26	.21	.17	.08	.08	.06
Credit managers	.08	.06	.02	.03	.01	.00	.07	.04	.03
Purchasing agents, buyers, other	.25	.20	.16	.13	.09	.05	.39	.35	.33
Sales manager, exc retail trade	.37	.39	.41	1.49	1.43	1.58	.15	.15	.18
Other managers, officials, proprts	13.82	15.96	17.32	16.50	17.37	16.09	4.77	5.71	6.39
Mgrs, superintendents, building	.01	.01	.03	.04	.05	.08	.01	.01	.01
Office managers, other	2.13	2.17	2.34	.45	.43	.48	.40	.42	.47
Restaurant, cafe, bar, managers	.00	.00	.00	.02	.02	.01	.01	.01	.00
Other managers, administrators	11.67	13.77	14.95	15.99	16.87	15.52	4.35	5.27	5.90
Sales workers	.87	.58	.14	7.82	10.08	12.95	.85	.73	.70
Advertising agents, sales worker	.04	.05	.04	7.82	10.08	12.95	.01	.01	.02
Demonstrators	.00	.00	.00	.00	.00	.00	.04	.04	.07
Other sales workers	.83	.53	.11	.00	.00	.00	.79	.68	.61
Clerical workers	44.89	41.17	38.08	18.63	17.00	18.93	19.23	18.23	16.65
Stenographrs, typists, secretaries	13.76	13.16	15.55	8.54	7.93	9.87	3.73	3.37	3.37
Legal secretaries	.03	.02	.04	.07	.05	.06	.03	.03	.03
Other secretaries	4.51	5.06	7.56	7.31	6.91	8.72	2.24	2.25	2.48
Stenographers	.10	.04	.00	.05	.04	.06	.35	.17	.05
Typists	9.12	8.04	7.95	1.13	.93	1.04	1.11	.93	.81
Office machine operators	1.13	1.54	1.17	.48	.45	.37	1.01	1.08	.87
Bookkeeping and billing	.10	.04	.01	.06	.02	.02	.12	.06	.06
Calculating	.06	.03	.01	.01	.01	.01	.05	.03	.03
Computer and peripheral equip	.55	1.16	.99	.11	.22	.20	.25	.55	.53
Duplicating	.01	.01	.01	.05	.03	.02	.02	.02	.02
Keypunch	.36	.27	.15	.21	.13	.08	.50	.37	.21
Tabulating	.03	.01	.00	.00	.00	.00	.02	.01	.00
Other office machine operators	.02	.02	.00	.04	.04	.05	.05	.05	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Telegraph, misc comun- ication srv			Radio and tv broadcastng			Utilities and sanitory services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	30.00	26.48	21.36	9.60	8.63	8.69	14.50	13.78	12.40
Billing clerks	.40	.43	.62	.18	.17	.20	.48	.51	.56
Bookkeepers	3.54	3.70	5.14	2.72	2.46	2.70	2.14	1.95	1.63
Cashiers	.58	.48	.17	.05	.06	.10	.72	.73	.74
Clerical supervisors, other	.71	.77	.78	.15	.15	.12	.46	.49	.48
Collectors, bill and account	.03	.02	.00	.01	.01	.00	.38	.35	.30
Counter clerks,exc food	.30	.32	.38	.08	.07	.06	.11	.11	.12
Dispatchers,starters,vehicle	.15	.16	.21	.01	.01	.01	.21	.21	.24
Estimators,investigators,other	.75	.76	.40	.16	.16	.09	1.32	1.43	.99
Expediters,prdction controls	.20	.20	.20	.46	.40	.30	.19	.21	.25
File clerks	.56	.47	.48	.17	.12	.10	.31	.25	.19
Library attendants, assistants	.00	.00	.00	.06	.05	.01	.00	.00	.00
Mail handlers,exc post office	.47	.47	.51	.28	.25	.20	.17	.17	.16
Messengers and office helpers	.68	.58	.27	.23	.24	.30	.04	.03	.02
Meter readers,utilities	.00	.00	.00	.00	.00	.00	3.44	3.15	3.02
Payroll,timekeeping clerks	.61	.70	.81	.15	.17	.21	.37	.40	.32
Real estate appraisers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Receptionists	.28	.24	.15	1.23	1.06	.97	.19	.18	.14
Shipping and receiving clerks	.31	.36	.75	.09	.09	.16	.09	.08	.07
Statistical clerks	.93	1.03	1.11	.26	.25	.20	.96	.95	.75
Stock clerks and store keepers	.42	.30	.11	.09	.07	.05	.68	.57	.45
Telegraph messengers	5.26	3.94	1.15	.00	.00	.00	.00	.00	.00
Telegraph operators	7.00	6.15	2.96	.00	.00	.00	.00	.00	.00
Telephone operators	3.49	2.01	.93	.69	.46	.50	.34	.21	.18
Weighers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Misc clerical workers	3.34	3.39	4.23	2.53	2.39	2.41	1.88	1.78	1.77
Crafts and kindred workers	23.19	23.08	22.25	3.63	3.20	3.66	34.71	35.96	35.28
Construction crafts workers	.53	.55	.62	.65	.64	.82	5.80	5.94	6.07
Carpenters and apprentices	.10	.08	.03	.28	.30	.43	.34	.46	.39
Brick,stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.06	.06	.04
Bulldozer operators	.00	.00	.00	.00	.00	.00	.56	.50	.49
Cement and concrete finishers	.00	.00	.00	.01	.01	.03	.03	.03	.02
Electricians and apprentices	.33	.35	.41	.27	.25	.27	2.28	2.53	2.38
Excavating,grading mach operatr	.00	.00	.00	.01	.00	.00	.71	.62	.63
Painters and apprentices	.06	.05	.13	.08	.07	.08	.21	.22	.19
Plumbers,pipefitters,aprentices	.05	.07	.06	.01	.01	.02	1.55	1.47	1.88
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.05	.06	.05
Blue collar worker supervisors	2.13	2.67	3.61	.47	.56	.99	5.15	5.31	4.32
Metalworkg craft wrkrs,exc mech	.10	.08	.03	.00	.00	.00	.70	1.07	1.60
Blacksmiths	.00	.00	.00	.00	.00	.00	.02	.02	.01
Boilermakers	.00	.00	.00	.00	.00	.00	.25	.54	.91
Forge and hammer operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Machinists and apprentices	.10	.08	.03	.00	.00	.00	.31	.41	.57
Millwrights	.00	.00	.00	.00	.00	.00	.04	.04	.03
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.04	.04	.03
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.01	.02	.03
Mechanics,repairers,installers	3.14	3.18	4.73	1.65	1.29	1.30	8.15	8.13	7.48
Air cond, heating, refrig meca	.07	.11	.18	.02	.02	.02	.29	.37	.38
Auto mechanics and apprentices	.12	.09	.13	.01	.01	.01	1.02	.88	.69
Data processing mach repairers	.24	.31	.48	.01	.01	.01	.01	.01	.00
Heavy equip mech, incl diesel	.49	.60	.89	.13	.14	.19	1.56	1.86	2.26
Household appliance mechanics	.12	.08	.03	.03	.02	.01	3.72	3.53	3.01
Office machine repairers	.06	.06	.20	.00	.00	.00	.00	.00	.01
Radio, television repairers	1.73	1.65	2.67	1.39	1.05	1.05	.12	.10	.10
Other mechanics and apprentices	.31	.28	.15	.06	.04	.01	1.42	1.38	1.01
Printing trade crafts workers	.27	.32	.54	.13	.16	.26	.06	.06	.02
Compositors and typesetters	.19	.22	.34	.08	.09	.17	.04	.03	.01
Press,plate printers,aprentices	.07	.10	.20	.06	.07	.09	.02	.02	.01
Transport,public util craft wrks	16.38	15.80	12.39	.44	.38	.26	8.59	9.22	8.16
Elec pwr line instaler,repairer	.41	.30	.06	.06	.03	.01	7.32	7.84	7.33
Power station operators	.03	.04	.08	.00	.00	.00	1.12	1.22	.72
Telephone installers,repairers	10.47	9.96	9.14	.22	.20	.18	.09	.09	.07
Telephone line instalr,splicers	5.48	5.50	3.11	.16	.15	.07	.06	.07	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Telegraph, misc comun- ication srv			Radio and tv broadcastng			Utilities and sanitory services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.65	.49	.33	.30	.16	.03	6.27	6.23	7.63
Crane,derrick,hoist operator	.12	.10	.16	.00	.00	.00	.29	.25	.32
Inspectors, other	.28	.23	.05	.01	.00	.00	1.33	1.37	1.24
Motion picture projectionists	.01	.01	.00	.01	.01	.00	.00	.00	.00
Stationary engineers	.11	.06	.11	.27	.14	.02	4.34	4.33	5.80
Other crafts workers	.13	.09	.02	.02	.01	.01	.30	.27	.27
Operatives	.79	.82	.80	.57	.55	.63	10.00	9.85	11.34
Operatives,except transport	.31	.30	.31	.39	.36	.32	4.55	4.31	3.72
Semiskilled metalworking	.02	.02	.01	.00	.00	.00	.86	.90	.93
Lathe,milling mach operatives	.00	.00	.00	.00	.00	.00	.01	.01	.01
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.02	.02	.02
Welders and flamecutters	.02	.02	.01	.00	.00	.00	.83	.87	.89
Semiskilled packing, inspecting	.03	.01	.00	.00	.00	.00	.03	.02	.01
Packer,wrapper,exc meat,prodce	.03	.01	.00	.00	.00	.00	.03	.02	.01
Other operatives, exc transport	.26	.27	.31	.39	.36	.32	3.66	3.39	2.79
Asbestos,insulation workers	.00	.00	.00	.00	.00	.00	.02	.03	.01
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Drillers, earth	.00	.00	.00	.00	.00	.00	.03	.04	.02
Garage wrkr,gas station atten	.00	.00	.00	.00	.00	.00	.12	.08	.07
Oilers,greasers,exc automobiles	.00	.00	.00	.00	.00	.00	.18	.13	.06
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.02	.02	.02
Photographic process workers	.03	.04	.07	.17	.17	.19	.03	.03	.01
Furnace tendr,stokr,exc metal	.00	.00	.00	.00	.00	.00	.80	.51	.47
Winding operatives, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Miscellaneous machine operatives	.15	.16	.20	.07	.07	.07	.48	.50	.44
Other operatives,exc transport	.08	.08	.04	.15	.13	.06	1.93	2.02	1.65
Transport equipment operatives	.48	.51	.48	.18	.19	.31	5.45	5.55	7.61
Bus drivers	.00	.00	.00	.00	.00	.00	.05	.06	.02
Delivery and route workers	.22	.15	.07	.05	.05	.09	.19	.16	.17
Fork lift,tow motor operatives	.00	.00	.00	.00	.00	.00	.05	.06	.05
Railroad switch operators	.12	.14	.00	.03	.04	.10	.01	.01	.01
Taxicab drivers, chauffeurs	.08	.11	.00	.03	.03	.03	.11	.08	.02
Truck drivers	.07	.12	.41	.07	.06	.09	5.04	5.18	7.34
Service workers	1.61	1.31	1.05	1.68	1.31	1.31	2.62	2.38	1.84
Cleaning service workers	1.04	.83	.58	1.09	.81	.91	2.09	1.87	1.28
Bldg interior cleaners, other	.22	.21	.16	.32	.27	.31	.22	.20	.14
Janitors and sextons	.82	.62	.42	.77	.54	.60	1.88	1.67	1.14
Food service workers	.12	.08	.03	.05	.04	.04	.07	.05	.05
Cooks,exc private households	.06	.04	.01	.02	.02	.01	.03	.02	.01
Dishwashers	.02	.01	.01	.00	.00	.00	.01	.00	.00
Food counter,fountain workers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Waiters	.03	.02	.01	.00	.00	.00	.01	.01	.01
Other food serv wkrs,exc privt	.03	.02	.01	.02	.01	.01	.02	.01	.02
Health service workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Personal service workers	.06	.06	.04	.42	.35	.24	.04	.04	.03
Attendants,recreation,amusement	.00	.00	.00	.02	.02	.01	.00	.00	.00
Attendants,personal serv,other	.03	.02	.01	.17	.11	.04	.02	.02	.02
Elevator operators	.02	.02	.02	.01	.01	.01	.01	.01	.01
Hairdressers and cosmetologists	.00	.00	.00	.16	.18	.17	.00	.00	.00
Housekeepers, exc private homes	.01	.01	.01	.05	.03	.01	.01	.00	.00
Protective service workers	.39	.34	.40	.12	.11	.12	.41	.40	.46
Crossing guards,bridgetenders	.00	.00	.00	.00	.00	.00	.02	.02	.02
Firefighters	.04	.04	.06	.00	.00	.00	.00	.00	.00
Guards	.28	.26	.34	.12	.10	.12	.36	.35	.43
Police and detectives	.07	.05	.00	.00	.00	.00	.02	.02	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Telegraph, misc comun- ication srv			Radio and tv broadcastng			Utilities and sanetry services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	.36	.31	.28	.82	.72	.77	18.23	17.06	18.79
Carpenter helpers	.00	.00	.00	.01	.01	.01	.07	.08	.06
Constr labr,exc carpenter helpr	.17	.14	.09	.02	.02	.01	2.71	2.33	1.69
Freight and material handlers	.00	.00	.00	.66	.58	.67	.43	.43	.41
Garbage collectors	.00	.00	.00	.01	.01	.00	7.17	7.36	10.89
Gardens,groundkeepers,exc farm	.05	.04	.03	.07	.07	.06	.42	.45	.42
Stock handlers	.00	.00	.00	.02	.02	.01	.08	.09	.06
Vehicle washers,equip cleaners	.00	.00	.00	.00	.00	.00	.13	.13	.08
Warehouse laborers, other	.07	.07	.12	.00	.00	.00	.17	.16	.11
Other laborers	.07	.05	.04	.03	.02	.02	7.04	6.04	5.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electric light and power			Electric-gas utilities			Gas steam supply systems		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	12.40	13.27	12.08	12.46	12.90	13.27	9.18	9.73	9.06
Engineers, technical	5.73	5.87	5.70	4.54	4.24	4.50	2.13	1.95	2.15
Chemical	.05	.07	.05	.08	.08	.10	.13	.14	.18
Civil	.46	.48	.41	.41	.33	.37	.36	.27	.30
Electrical	4.20	4.25	4.15	2.55	2.43	2.44	.23	.22	.23
Industrial	.17	.21	.23	.15	.17	.24	.24	.25	.25
Mechanical	.54	.60	.60	.70	.67	.77	.57	.54	.60
Metallurgical	.01	.01	.01	.00	.00	.00	.01	.01	.00
Petroleum	.00	.00	.00	.01	.01	.00	.10	.09	.10
Sales	.12	.08	.06	.13	.10	.09	.12	.09	.11
Other engineers	.18	.17	.19	.51	.46	.51	.38	.34	.38
Life and physical scientists	.15	.20	.18	.14	.17	.25	.16	.15	.20
Agricultural	.01	.02	.00	.00	.00	.00	.00	.00	.00
Biological	.01	.02	.02	.01	.02	.01	.00	.00	.00
Chemists	.09	.11	.12	.09	.10	.14	.05	.05	.03
Geologists	.01	.02	.03	.02	.02	.05	.11	.10	.17
Marine	.01	.01	.00	.02	.03	.04	.00	.00	.00
Physicists and astronomers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.06	.07	.05	.10	.09	.10	.08	.08	.08
Mathematicians	.01	.01	.00	.00	.00	.00	.01	.01	.00
Statisticians	.05	.05	.05	.10	.09	.10	.07	.07	.08
Engineering, science technicians	2.48	2.56	2.67	2.83	2.83	3.44	1.53	1.51	1.91
Chemical technicians	.07	.09	.11	.11	.14	.19	.05	.06	.08
Drafters	1.02	.90	1.04	1.39	1.21	1.45	.82	.72	.87
Electrical and electronic	.60	.69	.74	.68	.79	.92	.22	.25	.26
Industrial engineering	.01	.01	.01	.02	.02	.02	.01	.02	.01
Surveyors	.29	.31	.29	.24	.26	.37	.14	.14	.19
Other engineering, science tech	.49	.56	.48	.38	.41	.49	.28	.33	.51
Medical workers, exc technicians	.04	.05	.02	.07	.05	.01	.02	.02	.01
Pharmacists	.00	.00	.00	.01	.01	.00	.00	.00	.00
Physicians and osteopaths	.01	.01	.00	.01	.01	.00	.00	.00	.00
Registered nurses	.04	.05	.02	.04	.03	.01	.02	.02	.01
Health technologists, technicians	.01	.01	.00	.03	.03	.04	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.02	.03	.04	.00	.00	.00
Technicians, except health	.27	.33	.25	.18	.20	.11	.59	.74	.71
Airplane pilots	.01	.02	.01	.02	.02	.01	.09	.09	.05
Radio operators	.11	.13	.06	.13	.15	.06	.13	.16	.08
Other technicians except health	.15	.19	.18	.02	.03	.04	.37	.49	.58
Computer specialists	.44	.57	.50	.66	.82	.73	.68	.82	.70
Computer programmers	.33	.39	.35	.42	.48	.45	.52	.59	.53
Computer systems analysts	.10	.15	.13	.23	.32	.27	.14	.20	.16
Other computer specialists	.02	.04	.02	.01	.02	.01	.02	.04	.02
Social scientists	.17	.26	.22	.22	.33	.31	.25	.39	.36
Economists	.17	.26	.22	.21	.32	.31	.25	.39	.36
Teachers	.01	.02	.01	.02	.03	.04	.01	.01	.01
Adult education	.01	.02	.01	.02	.03	.04	.01	.01	.01
Writers, artists, entertainers	.68	.75	.69	.89	1.01	.91	.57	.72	.74
Designers	.19	.21	.17	.28	.30	.20	.07	.09	.12
Editors and reporters	.05	.05	.02	.07	.07	.04	.04	.05	.06
Painters and sculptors	.00	.00	.00	.06	.09	.11	.00	.00	.00
Photographers	.04	.03	.02	.06	.05	.03	.00	.00	.00
Public relations specialists	.39	.44	.49	.38	.46	.49	.45	.57	.56
Other writers, artists, entertain	.01	.01	.00	.03	.04	.04	.02	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electric light and power			Electric-gas utilities			Gas steam supply systems		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	2.36	2.57	1.78	2.79	3.10	2.85	3.15	3.35	2.19
Accountants	1.45	1.54	1.15	1.67	1.80	1.94	1.99	2.05	1.31
Architects	.03	.03	.02	.05	.04	.03	.00	.00	.00
Foresters and conservationists	.04	.04	.01	.00	.00	.00	.00	.00	.00
Home management advisors	.18	.13	.13	.11	.09	.09	.17	.10	.02
Lawyers	.09	.19	.09	.20	.35	.20	.22	.37	.26
Operations and systems research	.12	.17	.13	.18	.26	.26	.16	.21	.16
Personnel, labor relations wkrs	.41	.44	.25	.54	.53	.31	.55	.58	.42
Other research workers	.03	.03	.01	.04	.03	.02	.06	.05	.02
Managers, officials, proprietors	5.12	5.78	6.34	5.09	5.89	6.70	7.31	8.37	9.21
Buyers, sales, loan managers	.94	.84	.83	.98	.88	.94	1.12	1.04	1.23
Bank, financial managers	.10	.10	.07	.12	.11	.09	.12	.12	.11
Credit managers	.09	.05	.04	.11	.06	.04	.13	.07	.07
Purchasing agents, buyers, other	.61	.54	.56	.53	.46	.45	.53	.48	.56
Sales manager, exc retail trade	.15	.15	.17	.23	.25	.37	.33	.36	.49
Other managers, officials, proprts	4.18	4.94	5.51	4.11	5.01	5.76	6.19	7.33	7.98
Mgrs, superintendents, building	.02	.03	.03	.01	.01	.01	.02	.02	.02
Office managers, other	.46	.48	.64	.43	.47	.58	.62	.64	.72
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other managers, administrators	3.68	4.43	4.82	3.66	4.52	5.16	5.55	6.67	7.24
Sales workers	1.04	.96	1.27	1.22	1.17	1.34	1.79	1.33	.65
Advertising agents, sales worker	.01	.01	.01	.02	.02	.00	.01	.01	.01
Demonstrators	.07	.06	.11	.05	.05	.08	.09	.10	.24
Other sales workers	.96	.89	1.15	1.15	1.11	1.26	1.69	1.22	.40
Clerical workers	20.98	19.83	20.23	27.12	26.30	24.54	28.39	27.71	26.12
Stenographers, typists, secretaries	4.28	3.80	3.86	4.81	4.18	4.03	5.40	5.09	5.81
Legal secretaries	.03	.02	.02	.06	.06	.09	.06	.05	.05
Other secretaries	2.60	2.58	2.98	2.62	2.58	2.83	3.63	3.70	4.60
Stenographers	.50	.23	.05	.50	.20	.07	.36	.19	.06
Typists	1.15	.96	.81	1.63	1.35	1.03	1.36	1.15	1.10
Office machine operators	1.13	1.19	.97	1.74	1.79	1.21	1.40	1.52	1.02
Bookkeeping and billing	.10	.06	.06	.14	.08	.10	.13	.07	.06
Calculating	.04	.03	.04	.06	.04	.03	.12	.09	.08
Computer and peripheral equip	.29	.57	.47	.40	.82	.59	.40	.81	.59
Duplicating	.04	.03	.04	.04	.03	.04	.02	.01	.01
Keypunch	.59	.45	.32	.97	.73	.39	.63	.47	.25
Tabulating	.03	.01	.00	.05	.01	.01	.03	.01	.00
Other office machine operators	.05	.04	.03	.08	.08	.06	.06	.06	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electric light and power			Electric-gas utilities			Gas steam supply systems		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	15.57	14.84	15.40	20.57	20.32	19.30	21.58	21.10	19.29
Billing clerks	.50	.53	.59	.57	.62	.64	.42	.45	.58
Bookkeepers	2.26	2.03	1.69	2.54	2.34	1.90	3.35	3.05	2.44
Cashiers	.96	.97	1.17	.73	.77	.85	1.22	1.28	1.44
Clerical supervisors, other	.41	.46	.50	.82	.91	.92	.72	.79	.76
Collectors, bill and account	.36	.34	.37	.51	.52	.53	.74	.70	.56
Counter clerks, exc food	.12	.12	.16	.17	.17	.17	.18	.19	.21
Dispatchers, starters, vehicle	.18	.19	.26	.33	.33	.39	.30	.30	.35
Estimators, investigators, other	1.57	1.69	1.34	2.57	2.88	2.12	1.92	2.16	1.57
Expeditors, production controls	.27	.30	.45	.31	.34	.41	.25	.26	.30
File clerks	.36	.29	.27	.56	.45	.35	.34	.27	.21
Mail handlers, exc post office	.22	.23	.25	.28	.27	.27	.27	.25	.22
Messengers and office helpers	.05	.04	.02	.07	.07	.04	.02	.02	.02
Meter readers, utilities	3.31	3.10	3.84	3.69	3.75	4.52	4.52	4.29	4.07
Payroll, timekeeping clerks	.42	.45	.30	.61	.61	.41	.40	.44	.44
Real estate appraisers	.02	.02	.03	.02	.02	.01	.00	.00	.00
Receptionists	.25	.23	.23	.21	.21	.21	.31	.26	.17
Shipping and receiving clerks	.11	.09	.08	.15	.13	.09	.11	.10	.13
Statistical clerks	.60	.65	.58	1.71	1.79	1.45	2.46	2.55	2.04
Stock clerks and store keepers	.96	.79	.75	1.05	.90	.78	.70	.58	.44
Telephone operators	.38	.21	.16	.62	.35	.27	.41	.27	.21
Misc clerical workers	2.28	2.13	2.36	3.04	2.92	2.98	2.92	2.90	3.14
Crafts and kindred workers	45.36	45.85	46.05	39.34	39.63	39.70	35.62	36.52	39.40
Construction crafts workers	7.44	8.05	8.14	6.46	6.39	7.44	5.43	5.26	6.80
Carpenters and apprentices	.55	.80	.56	.44	.50	.67	.20	.21	.23
Brick, stonemasons, apprentices	.05	.05	.05	.01	.02	.02	.04	.03	.01
Bulldozer operators	.20	.23	.36	.11	.11	.16	.20	.19	.28
Cement and concrete finishers	.04	.05	.02	.04	.03	.01	.02	.03	.07
Electricians and apprentices	5.25	5.40	5.56	2.83	2.86	3.05	.44	.47	.60
Excavating, grading mach operatr	.36	.38	.42	.81	.78	1.02	.83	.71	.72
Floor layers, exc tile setters	.00	.00	.00	.00	.00	.00	.02	.01	.00
Painters and apprentices	.24	.29	.33	.19	.20	.26	.13	.12	.08
Plumbers, pipefitters, aprentices	.64	.71	.72	1.97	1.85	2.22	3.53	3.48	4.80
Structural metal craft workers	.10	.14	.11	.06	.05	.05	.02	.01	.01
Blue collar worker supervisors	5.36	5.04	3.40	6.33	5.96	3.65	6.30	6.96	8.16
Metalworkg craft wrkrs, exc meca	1.07	1.83	2.48	1.07	1.38	2.85	.44	.57	1.19
Blacksmiths	.01	.01	.01	.02	.01	.00	.05	.04	.01
Boilermakers	.46	1.04	1.45	.52	.90	2.54	.07	.14	.45
Forge and hammer operators	.01	.01	.01	.00	.00	.00	.02	.01	.01
Job and die setters, metal	.00	.00	.00	.01	.01	.01	.00	.00	.00
Machinists and apprentices	.43	.62	.89	.42	.38	.25	.21	.26	.49
Millwrights	.08	.07	.05	.01	.01	.01	.04	.05	.09
Pattern and moldmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.06	.06	.02	.05	.03	.02	.03	.03	.07
Tool and diemakers, apprentices	.02	.02	.04	.02	.02	.03	.02	.03	.08
Mechanics, repairers, installers	6.20	6.24	6.68	10.63	11.11	11.53	15.23	16.25	17.04
Air cond, heating, refrig mech	.10	.13	.14	.39	.50	.48	1.20	1.74	2.10
Auto body repairers	.00	.00	.00	.04	.03	.03	.00	.00	.00
Auto mechanics and apprentices	.97	.86	.90	1.49	1.33	1.21	1.01	.89	.76
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	1.53	1.82	2.22	1.68	1.94	2.13	2.03	2.47	3.37
Household appliance mechanics	2.02	1.94	2.09	5.14	5.42	6.06	9.90	10.10	10.08
Office machine repairers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Radio, television repairers	.10	.06	.02	.11	.08	.03	.09	.08	.10
Other mechanics and apprentices	1.46	1.42	1.28	1.78	1.82	1.59	1.00	.96	.63
Printing trade crafts workers	.09	.08	.04	.10	.08	.00	.09	.10	.11
Compositors and typesetters	.05	.04	.02	.07	.05	.00	.04	.05	.04
Photoengravers, lithographers	.01	.01	.00	.01	.01	.00	.00	.00	.00
Press, plate printers, apprentices	.03	.03	.02	.02	.02	.00	.05	.06	.07
Transport, public util craft wrks	21.04	20.83	21.56	9.99	10.36	10.63	1.97	1.51	.44
Elec pwr line instaler, repairer	17.82	17.62	19.43	8.77	9.15	9.63	1.75	1.31	.33
Power station operators	3.03	3.01	1.96	.87	.88	.80	.14	.11	.04
Telephone installers, repairers	.11	.11	.12	.21	.18	.12	.04	.04	.04
Telephone line instalr, splicers	.09	.09	.06	.15	.15	.08	.04	.04	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electric light and power			Electric-gas utilities			Gas steam supply systems		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	4.16	3.78	3.75	4.76	4.36	3.60	6.16	5.88	5.65
Crane,derrick,hoist operator	.30	.24	.25	.29	.22	.18	.11	.08	.05
Decorators, window dressers	.00	.00	.00	.03	.04	.01	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.02	.02	.00	.00	.00	.00
Inspectors, other	.51	.49	.34	1.80	1.67	.77	2.09	2.44	2.87
Stationary engineers	2.82	2.58	2.57	2.10	1.94	2.19	3.89	3.29	2.68
Other crafts workers	.54	.46	.60	.51	.48	.44	.08	.07	.06
Operatives	6.67	6.42	6.61	7.79	7.53	8.02	9.51	9.37	10.72
Operatives,except transport	4.70	4.34	3.89	5.06	4.80	4.38	6.30	6.15	5.80
Semiskilled metalworking	.92	1.03	1.00	1.37	1.35	1.41	1.72	1.82	2.24
Drill press operatives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.02	.02	.02	.03	.03	.04	.00	.00	.00
Punch,stamping press operatives	.04	.05	.05	.02	.01	.01	.00	.00	.00
Welders and flamecutters	.84	.95	.92	1.31	1.30	1.36	1.72	1.82	2.24
Semiskilled packing, inspecting	.02	.02	.00	.06	.05	.04	.02	.02	.00
Packer,wrapper,exc meat,prodce	.02	.02	.00	.06	.05	.04	.02	.02	.00
Other operatives, exc transport	3.76	3.30	2.89	3.63	3.41	2.93	4.55	4.31	3.56
Asbestos,insulation workers	.05	.07	.03	.02	.03	.01	.00	.00	.00
Surveyors' helpers	.04	.03	.03	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.01	.01	.00	.00	.00	.00	.00	.00	.00
Drillers, earth	.04	.08	.06	.01	.01	.01	.03	.02	.01
Garage wrkr,gas station atten	.08	.06	.07	.21	.16	.18	.14	.09	.07
Mixing operatives	.00	.00	.00	.00	.00	.00	.02	.02	.00
Oilers,greasers,exc automobiles	.07	.05	.04	.07	.05	.01	.66	.41	.06
Painters, mfg articles	.02	.02	.04	.05	.05	.06	.02	.01	.00
Photographic process workers	.04	.04	.02	.06	.06	.04	.02	.02	.01
Sawyers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	1.27	.66	.38	.83	.45	.15	.40	.29	.33
Winding operatives, other	.03	.03	.05	.00	.00	.00	.00	.00	.00
Miscellaneous machine operatves	.43	.46	.35	.47	.50	.52	.98	1.03	1.03
Other operatives,exc transport	1.66	1.77	1.85	1.91	2.12	1.95	2.29	2.43	2.05
Transport equipment operatives	1.97	2.08	2.72	2.73	2.73	3.64	3.21	3.22	4.92
Bus drivers	.04	.05	.01	.11	.13	.02	.00	.00	.00
Delivery and route workers	.05	.04	.03	.21	.17	.14	.72	.66	.88
Fork lift,tow motor operatives	.05	.05	.03	.06	.07	.06	.05	.06	.08
Railroad switch operators	.00	.00	.00	.06	.06	.06	.00	.00	.00
Taxicab drivers, chauffeurs	.04	.02	.01	.17	.12	.03	.00	.00	.00
Truck drivers	1.79	1.92	2.65	2.14	2.18	3.35	2.44	2.50	3.96
Service workers	2.73	2.52	2.32	2.18	1.97	1.88	2.31	2.03	1.44
Cleaning service workers	2.14	1.97	1.63	1.64	1.52	1.27	2.04	1.82	1.34
Bldg interior cleaners, other	.24	.23	.20	.25	.27	.31	.19	.16	.07
Janitors and sextons	1.90	1.74	1.43	1.39	1.25	.97	1.85	1.66	1.27
Food service workers	.10	.07	.08	.14	.11	.12	.09	.06	.03
Waiters' assistants	.00	.00	.00	.01	.01	.03	.00	.00	.00
Cooks,exc private households	.05	.03	.01	.06	.03	.01	.03	.02	.01
Dishwashers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Food counter,fountain workers	.01	.01	.02	.02	.02	.02	.00	.00	.00
Waiters	.01	.01	.01	.01	.01	.01	.02	.01	.01
Other food serv wkrs,exc privt	.02	.02	.03	.04	.03	.05	.03	.02	.01
Health service workers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.02	.00	.00	.00	.00	.00	.00
Personal service workers	.06	.06	.05	.05	.05	.04	.03	.03	.02
Attendants, personal serv,other	.02	.03	.03	.03	.03	.03	.01	.01	.01
Elevator operators	.02	.02	.01	.03	.02	.01	.02	.01	.01
Housekeepers, exc private homes	.02	.01	.01	.00	.00	.00	.00	.00	.00
Protective service workers	.43	.40	.54	.34	.30	.46	.15	.13	.06
Crossing guards,bridgetenders	.04	.03	.02	.02	.02	.02	.00	.00	.00
Firefighters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Guards	.35	.33	.51	.30	.27	.44	.15	.13	.06
Police and detectives	.03	.03	.00	.02	.01	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Electric light and power			Electric-gas utilities			Gas steam supply systems		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	5.71	5.37	5.10	4.83	4.62	4.55	5.91	4.95	3.42
Carpenter helpers	.13	.15	.09	.10	.07	.05	.03	.04	.07
Constr labr,exc carpenter help	2.45	2.33	2.37	2.92	2.74	2.73	4.07	3.24	1.66
Freight and material handlers	.42	.40	.39	.22	.22	.27	.26	.26	.31
Garbage collectors	.01	.01	.01	.04	.05	.06	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.20	.24	.22	.39	.48	.50	.10	.11	.11
Timbercutting, logging workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stock handlers	.12	.12	.09	.14	.16	.16	.10	.09	.04
Vehicle washers,equip cleaners	.12	.13	.14	.06	.06	.04	.04	.04	.02
Warehouse labcrers, other	.23	.21	.09	.29	.23	.12	.20	.20	.26
Other laborers	2.04	1.76	1.70	.68	.62	.62	1.10	.97	.95

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Water supply			Sanitary services			Other utilities		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	7.22	6.97	7.01	2.32	2.50	2.47	5.04	4.76	3.57
Engineers, technical	2.67	2.24	2.75	.80	.69	.69	1.19	.94	.78
Chemical	.03	.04	.18	.03	.04	.05	.02	.01	.00
Civil	1.88	1.47	1.78	.55	.44	.46	.73	.55	.51
Electrical	.29	.28	.27	.06	.06	.06	.08	.04	.00
Industrial	.09	.09	.09	.03	.03	.02	.03	.03	.00
Mechanical	.21	.20	.24	.06	.05	.04	.10	.10	.09
Sales	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other engineers	.16	.15	.16	.07	.06	.06	.24	.21	.18
Life and physical scientists	.68	.72	.59	.25	.27	.20	.48	.49	.20
Agricultural	.00	.00	.00	.00	.00	.00	.02	.01	.00
Biological	.10	.17	.19	.05	.09	.10	.00	.00	.00
Chemists	.51	.48	.34	.20	.18	.10	.25	.25	.14
Geologists	.03	.03	.03	.00	.00	.00	.00	.00	.00
Marine	.04	.05	.04	.00	.00	.00	.21	.23	.05
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Mathematical specialists	.02	.01	.00	.01	.02	.02	.02	.01	.00
Statisticians	.02	.01	.00	.01	.02	.02	.02	.01	.00
Engineering, science technicians	2.29	2.22	2.21	.49	.49	.46	1.49	1.45	1.33
Agricultural, biologcl, exc health	.04	.04	.05	.00	.00	.00	.00	.00	.00
Chemical technicians	.46	.46	.38	.10	.08	.15	.00	.00	.00
Drafters	.95	.88	.36	.14	.15	.01	.70	.65	.55
Electrical and electronic	.08	.08	.04	.02	.02	.01	.00	.00	.00
Industrial engineering	.01	.01	.01	.01	.01	.01	.00	.00	.00
Surveyors	.34	.31	.30	.08	.08	.07	.18	.17	.10
Other engineering, science tech	.42	.44	1.07	.15	.16	.21	.61	.63	.69
Medical workers, exc technicians	.04	.04	.10	.02	.03	.04	.00	.00	.00
Pharmacists	.01	.01	.04	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.01	.00	.00	.01	.01	.02	.00	.00	.00
Registered nurses	.02	.02	.05	.01	.02	.03	.00	.00	.00
Health technolcists, technicians	.05	.08	.07	.15	.22	.10	.00	.00	.00
Other health technicians	.05	.08	.07	.15	.22	.10	.00	.00	.00
Technicians, except health	.26	.32	.25	.14	.21	.25	.06	.06	.03
Airplane pilots	.03	.03	.05	.02	.03	.07	.00	.00	.00
Radio operators	.16	.18	.09	.04	.04	.02	.05	.04	.03
Other technicians except health	.08	.10	.12	.09	.13	.16	.02	.01	.00
Computer specialists	.14	.16	.15	.03	.04	.04	.45	.55	.41
Computer programmers	.11	.12	.10	.01	.01	.01	.33	.38	.30
Computer systems analysts	.03	.04	.05	.01	.02	.03	.00	.00	.00
Other computer specialists	.00	.00	.00	.00	.00	.00	.12	.17	.11
Social scientists	.02	.01	.00	.00	.00	.00	.00	.00	.00
Economists	.02	.01	.00	.00	.00	.00	.00	.00	.00
Teachers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Adult education	.00	.00	.00	.00	.00	.00	.02	.01	.01
Writers, artists, entertainers	.21	.26	.31	.03	.05	.04	.27	.31	.12
Designers	.01	.01	.01	.00	.00	.00	.05	.03	.00
Editors and reporters	.04	.06	.11	.00	.00	.00	.00	.00	.00
Photographers	.04	.03	.04	.00	.00	.00	.00	.00	.00
Public relations specialists	.09	.11	.09	.03	.04	.04	.22	.28	.12
Radio and tv announcers	.03	.04	.06	.00	.00	.00	.00	.00	.00
Other writers, artists, entertain	.01	.01	.00	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Water supply			Sanitary services			Other utilities		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	.85	.91	.60	.40	.50	.64	1.07	.93	.70
Accountants	.57	.57	.30	.08	.10	.11	.43	.48	.49
Foresters and conservationists	.04	.04	.05	.19	.24	.39	.12	.07	.00
Home management advisors	.00	.00	.00	.00	.00	.00	.16	.07	.00
Lawyers	.03	.06	.07	.02	.03	.03	.02	.01	.00
Operations and systems research	.02	.03	.01	.01	.02	.02	.10	.16	.18
Personnel, labor relations wkrs	.17	.19	.17	.08	.09	.09	.13	.07	.00
Other research workers	.01	.01	.00	.02	.01	.00	.10	.07	.03
Managers, officials, proprietors	9.21	11.32	13.00	2.84	3.54	3.98	8.57	10.20	10.68
Buyers, sales, loan managers	.20	.19	.19	.08	.07	.05	.67	.65	.64
Bank, financial managers	.04	.05	.05	.02	.02	.03	.00	.00	.00
Credit managers	.02	.01	.00	.00	.00	.00	.00	.00	.00
Purchasing agents, buyers, other	.12	.11	.12	.05	.03	.02	.49	.45	.41
Sales manager, exc retail trade	.02	.02	.02	.01	.01	.01	.18	.20	.23
Other managers, officials, proprts	9.00	11.13	12.81	2.76	3.47	3.93	7.90	9.55	10.05
Office managers, other	.52	.54	.57	.07	.09	.09	.28	.32	.33
Other managers, administrators	8.48	10.58	12.23	2.68	3.38	3.84	7.62	9.23	9.71
Sales workers	.16	.16	.15	.05	.04	.02	.46	.40	.47
Advertising agents, sales worker	.02	.04	.07	.00	.00	.00	.00	.00	.00
Other sales workers	.14	.13	.07	.05	.04	.02	.46	.40	.47
Clerical workers	21.55	19.95	17.21	3.41	3.73	4.36	14.91	14.78	12.95
Stenographers, typists, secretaries	3.59	3.33	3.45	1.09	1.15	1.44	3.86	3.82	3.99
Legal secretaries	.02	.02	.02	.00	.00	.00	.03	.03	.03
Other secretaries	1.93	1.98	2.23	.70	.78	1.00	2.89	3.06	3.26
Stenographers	.27	.15	.05	.05	.03	.01	.16	.09	.03
Typists	1.37	1.18	1.15	.33	.34	.42	.78	.65	.68
Office machine operators	.83	.75	.49	.09	.33	.71	1.09	1.20	.59
Bookkeeping and billing	.29	.14	.09	.02	.01	.00	.00	.00	.00
Calculating	.03	.02	.01	.00	.00	.00	.00	.00	.00
Computer and peripheral equip	.15	.31	.24	.02	.28	.68	.34	.75	.41
Duplicating	.01	.01	.01	.00	.00	.00	.02	.01	.01
Keypunch	.29	.22	.12	.02	.02	.01	.46	.16	.00
Other office machine operators	.07	.05	.03	.02	.02	.01	.27	.28	.17
Other clerical workers	17.13	15.87	13.27	2.24	2.25	2.22	9.96	9.77	8.37
Billing clerks	1.09	1.17	1.45	.07	.07	.07	.79	.85	.76
Bookkeepers	2.51	2.45	2.22	.64	.63	.81	2.31	2.35	2.17
Cashiers	.73	.68	.40	.06	.07	.10	.37	.34	.08
Clerical supervisors, other	.40	.46	.48	.09	.11	.09	.27	.32	.30
Collectors, bill and account	.36	.33	.23	.06	.05	.02	.24	.23	.18
Counter clerks, exc food	.07	.08	.10	.01	.01	.03	.18	.20	.24
Dispatchers, starters, vehicle	.17	.18	.20	.12	.13	.12	.00	.00	.00
Estimators, investigators, other	.51	.58	.40	.07	.08	.03	.22	.27	.19
Expeditors, production controlrs	.06	.06	.05	.03	.03	.02	.00	.00	.00
File clerks	.24	.19	.14	.06	.05	.04	.12	.09	.03
Mail handlers, exc post office	.08	.08	.09	.01	.01	.01	.03	.03	.03
Messengers and office helpers	.01	.01	.01	.01	.02	.03	.00	.00	.00
Meter readers, utilities	8.24	7.01	4.94	.11	.08	.01	2.97	2.65	2.18
Payroll, timekeeping clerks	.29	.33	.34	.14	.18	.21	.33	.44	.58
Real estate appraisers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Receptionists	.17	.15	.12	.03	.03	.02	.42	.41	.27
Shipping and receiving clerks	.04	.04	.06	.02	.02	.03	.18	.24	.27
Statistical clerks	.42	.46	.41	.15	.18	.16	.15	.11	.00
Stock clerks and store keepers	.52	.43	.31	.11	.08	.03	.27	.14	.02
Telephone operators	.23	.17	.21	.09	.08	.11	.15	.07	.00
Weighers	.00	.00	.00	.15	.13	.06	.00	.00	.00
Misc clerical workers	1.00	1.02	1.11	.22	.23	.23	.97	1.04	1.10
Crafts and kindred workers	39.42	40.84	45.23	14.21	15.69	15.58	20.44	21.83	24.30

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Water supply			Sanitary services			Other utilities		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	6.25	6.11	7.77	3.12	2.73	2.06	5.55	5.40	5.48
Carpenters and apprentices	.32	.35	.40	.09	.11	.13	.33	.35	.38
Brick,stonemasons, apprentices	.13	.11	.05	.10	.08	.04	.00	.00	.00
Bulldozer operators	.20	.19	.23	1.81	1.51	.98	1.16	1.17	1.50
Cement and concrete finishers	.04	.04	.06	.01	.00	.00	.00	.00	.00
Electricians and apprentices	.49	.54	.74	.17	.20	.27	.39	.42	.37
Excavating,grading mach operatr	1.38	1.15	.98	.62	.52	.37	2.54	2.35	2.33
Floor layers, exc tile setters	.02	.01	.03	.00	.00	.00	.00	.00	.00
Painters and apprentices	.40	.34	.21	.15	.12	.03	.49	.47	.27
Plumbers,pipefitters,aprentices	3.27	3.37	5.04	.17	.18	.25	.64	.63	.64
Structural metal craft workers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Tile setters	.00	.00	.00	.01	.01	.00	.00	.00	.00
Blue collar worker supervisors	5.43	6.35	6.05	3.02	3.76	3.22	4.67	5.61	6.26
Metalworkg craft wrkrs,exc mech	.47	.55	.94	.21	.27	.45	.51	.86	2.15
Blacksmiths	.02	.02	.00	.03	.03	.03	.09	.09	.00
Boilermakers	.04	.05	.06	.00	.00	.00	.10	.13	.23
Forge and hammer operators	.02	.02	.05	.00	.00	.00	.00	.00	.00
Job and die setters, metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.32	.39	.65	.15	.21	.38	.31	.65	1.92
Millwrights	.01	.01	.01	.01	.01	.01	.00	.00	.00
Pattern and moldmakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Rollers and finishers,metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.02	.02	.06	.02	.02	.03	.00	.00	.00
Tool and diemakers, apprentices	.01	.02	.07	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	11.94	12.28	8.28	2.06	2.09	1.70	4.85	5.20	5.41
Air cond, heating, refrig mech	.03	.04	.04	.02	.03	.05	.00	.00	.00
Auto mechanics and apprentices	.52	.46	.39	1.02	.82	.32	.60	.48	.20
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.70	.59	.80
Heavy equip mech, incl diesel	2.14	2.63	3.55	.86	1.09	1.29	2.09	2.49	2.98
Household appliance mechanics	5.02	5.16	1.62	.07	.06	.01	.34	.38	.28
Radio, television repairers	.45	.44	.61	.00	.00	.00	.13	.13	.10
Other mechanics and apprentices	3.78	3.55	2.09	.10	.09	.04	.98	1.13	1.05
Printing trade crafts workers	.03	.02	.00	.00	.00	.00	.00	.00	.00
Compositors and typesetters	.02	.01	.00	.00	.00	.00	.00	.00	.00
Transport,public util craft wrks	.36	.28	.10	.08	.09	.07	1.07	.76	.18
Elec pwr line instaler,repairer	.22	.15	.02	.02	.02	.01	.79	.65	.17
Power station operators	.09	.08	.04	.02	.02	.02	.27	.10	.00
Telephone installers,repairers	.04	.04	.04	.03	.04	.04	.02	.01	.01
Telephone line instalr,splicers	.01	.01	.01	.01	.01	.00	.00	.00	.00
Other crafts, kindred workers	14.94	15.25	22.09	5.72	6.75	8.08	3.80	4.00	4.83
Crane,derrick,hoist operator	.22	.20	.28	.44	.41	.60	.27	.23	.41
Inspectors, lcg and lumber	.00	.00	.00	.00	.00	.00	.12	.13	.13
Inspectors, other	1.88	2.08	1.90	1.25	1.50	1.47	.67	.82	.76
Sign painters and letterers	.00	.00	.00	.02	.01	.00	.00	.00	.00
Stationary engineers	12.71	12.86	19.82	3.96	4.79	5.99	2.60	2.72	3.47
Other crafts workers	.12	.12	.09	.05	.04	.02	.15	.11	.06
Operatives	8.20	8.39	8.48	17.54	17.86	19.71	7.29	7.93	10.71
Operatives,except transport	5.53	5.61	4.31	2.31	2.21	2.07	2.37	2.42	2.30
Semiskilled metalworking	.23	.28	.42	.14	.19	.27	.76	.80	.83
Welders and flamecutters	.23	.28	.42	.14	.19	.27	.76	.80	.83
Semiskilled packing, inspecting	.01	.01	.00	.02	.02	.00	.00	.00	.00
Packer,wrapper,exc meat,prodce	.01	.01	.00	.02	.02	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Water supply			Sanitary services			Other utilities		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	5.28	5.32	3.90	2.15	2.00	1.80	1.61	1.62	1.46
Bottling,canning operatives	.03	.04	.05	.00	.00	.00	.00	.00	.00
Surveyors' helpers	.04	.04	.04	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.02	.01	.00	.00	.00	.00	.00	.00	.00
Drillers, earth	.06	.04	.01	.00	.00	.00	.36	.16	.03
Garage wrkr,gas station atten	.05	.03	.03	.14	.08	.02	.00	.00	.00
Oilers,greasers,exc automobiles	.14	.11	.04	.14	.14	.13	.00	.00	.00
Photographic process workers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Sawyers	.04	.04	.06	.00	.00	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	.24	.14	.07	.77	.64	.99	.00	.00	.00
Miscellaneous machine operatves	.45	.48	.47	.25	.27	.23	.24	.20	.07
Other operatives,exc transport	4.19	4.37	3.12	.86	.87	.43	1.01	1.27	1.36
Transport equipment operatives	2.67	2.78	4.16	15.22	15.66	17.64	4.92	5.51	8.42
Boat operators	.03	.03	.03	.00	.00	.00	.34	.35	.29
Bus drivers	.00	.00	.00	.06	.11	.06	.00	.00	.00
Delivery and route workers	.10	.10	.12	.07	.07	.08	.00	.00	.00
Fork lift,tow motor operatives	.05	.06	.07	.05	.07	.06	.00	.00	.00
Taxicab drivers, chauffeurs	.20	.17	.07	.18	.12	.01	.00	.00	.00
Truck drivers	2.29	2.41	3.89	14.86	15.29	17.44	4.58	5.16	8.12
Service workers	4.21	3.82	2.86	2.18	1.87	.98	2.89	2.79	2.32
Cleaning service workers	3.39	3.03	2.16	1.73	1.39	.49	2.04	2.09	1.86
Bldg interior cleaners, other	.16	.14	.06	.21	.17	.07	.06	.04	.01
Janitors and sextons	3.23	2.89	2.09	1.52	1.22	.43	1.98	2.04	1.85
Food service workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cooks,exc private households	.01	.01	.01	.00	.00	.00	.00	.00	.00
Health service workers	.03	.03	.02	.03	.03	.02	.00	.00	.00
Health aides, except nursing	.02	.03	.02	.02	.03	.02	.00	.00	.00
Personal service workers	.04	.03	.04	.02	.01	.01	.00	.00	.00
Attendants, personal serv, other	.01	.01	.01	.02	.01	.01	.00	.00	.00
Child care workers, exc private	.02	.01	.02	.00	.00	.00	.00	.00	.00
Elevator operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Protective service workers	.74	.72	.64	.41	.44	.46	.85	.71	.45
Crossing guards,bridgetenders	.05	.04	.05	.00	.00	.00	.48	.41	.37
Guards	.67	.66	.59	.38	.42	.45	.37	.30	.08
Police and detectives	.02	.02	.00	.02	.02	.02	.00	.00	.00
Laborers, except farm	10.05	8.55	6.07	57.46	54.76	52.91	40.38	37.31	35.00
Carpenter helpers	.03	.03	.06	.02	.02	.03	.00	.00	.00
CONSTR labr,exc carpenter helpr	4.61	3.70	1.89	.96	.79	.34	2.67	2.27	1.23
Freight and material handlers	.16	.16	.15	.86	.86	.69	.25	.27	.30
Garbage collectors	.07	.07	.10	31.04	32.03	38.03	2.73	2.71	2.50
Gardenrs,groundkeepers,exc farm	.82	.89	.86	.67	.69	.46	2.52	2.13	1.67
Stock handlers	.05	.05	.04	.00	.00	.00	.00	.00	.00
Teamsters	.00	.00	.00	.00	.00	.00	.16	.18	.25
Vehicle washers,equip cleaners	.08	.07	.04	.28	.23	.06	.16	.11	.03
Warehouse laborers, other	.13	.13	.17	.01	.02	.03	.18	.16	.13
Other laborers	4.09	3.44	2.75	23.61	20.14	13.27	31.70	29.49	28.90

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Wholesale and retail trade			Wholesale trade			Wholesale exc misc trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.61	2.84	2.55	4.43	4.72	3.93	4.81	5.08	4.14
Engineers, technical	.29	.25	.21	1.09	.95	.88	1.35	1.17	1.08
Chemical	.01	.01	.01	.04	.04	.03	.04	.04	.03
Civil	.01	.01	.01	.04	.03	.02	.03	.02	.02
Electrical	.04	.04	.03	.17	.16	.14	.24	.22	.20
Industrial	.03	.03	.03	.09	.10	.09	.11	.11	.09
Mechanical	.04	.04	.03	.14	.14	.14	.18	.17	.17
Petroleum	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sales	.11	.08	.06	.41	.32	.29	.53	.41	.37
Other engineers	.05	.04	.04	.18	.16	.15	.22	.20	.19
Life and physical scientists	.04	.04	.03	.13	.13	.13	.12	.11	.10
Agricultural	.01	.01	.01	.02	.02	.02	.01	.01	.01
Biological	.00	.01	.00	.01	.02	.01	.01	.02	.02
Chemists	.02	.02	.02	.09	.08	.07	.09	.09	.07
Geologists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Mathematical specialists	.01	.01	.01	.02	.02	.02	.02	.02	.01
Statisticians	.01	.01	.01	.02	.01	.02	.01	.01	.01
Engineering, science technicians	.15	.15	.14	.52	.52	.51	.59	.59	.54
Agricultural, biolgcl, exc health	.01	.01	.01	.03	.03	.02	.03	.03	.03
Chemical technicians	.01	.01	.01	.03	.03	.03	.04	.04	.03
Drafters	.05	.05	.05	.17	.14	.16	.17	.15	.16
Electrical and electronic	.04	.04	.04	.14	.16	.15	.20	.22	.20
Industrial engineering	.00	.01	.01	.02	.02	.03	.02	.03	.03
Other engineering, science tech	.03	.03	.03	.12	.12	.11	.14	.13	.10
Medical workers, exc technicians	.64	.60	.63	.03	.04	.04	.04	.05	.05
Dietitians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Optometrists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Pharmacists	.61	.56	.59	.01	.01	.02	.02	.02	.03
Registered nurses	.01	.01	.01	.01	.01	.02	.02	.02	.02
Health technologists, technicians	.01	.01	.01	.01	.01	.01	.01	.02	.01
Other health technicians	.00	.01	.00	.01	.01	.00	.01	.01	.01
Technicians, except health	.03	.04	.04	.10	.12	.11	.11	.13	.11
Airplane pilots	.01	.01	.01	.02	.03	.03	.02	.03	.03
Radio operators	.00	.00	.00	.01	.01	.01	.01	.01	.00
Other technicians except health	.02	.03	.02	.06	.08	.07	.07	.09	.07
Computer specialists	.14	.19	.15	.45	.59	.43	.56	.73	.51
Computer programmers	.08	.09	.08	.25	.28	.22	.30	.34	.26
Computer systems analysts	.05	.07	.05	.16	.24	.16	.21	.30	.20
Other computer specialists	.01	.02	.01	.04	.07	.04	.05	.10	.06
Social scientists	.05	.07	.05	.15	.21	.16	.14	.20	.14
Economists	.05	.07	.05	.15	.21	.16	.14	.20	.14
Teachers	.09	.07	.03	.03	.03	.01	.04	.04	.02
Adult education	.01	.02	.01	.03	.03	.01	.03	.03	.01
Other teachers	.08	.05	.02	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	.41	.58	.57	.45	.50	.41	.39	.43	.34
Athletes and kindred workers	.01	.02	.02	.01	.02	.01	.01	.01	.01
Dancers	.02	.03	.03	.00	.00	.00	.00	.00	.00
Designers	.11	.13	.12	.16	.17	.15	.14	.16	.14
Editors and reporters	.03	.04	.04	.04	.04	.04	.04	.04	.04
Musicians and composers	.09	.16	.16	.00	.00	.01	.00	.00	.00
Painters and sculptors	.06	.08	.09	.06	.07	.06	.05	.06	.04
Photographers	.01	.01	.01	.02	.02	.01	.01	.01	.01
Public relations specialists	.05	.07	.06	.13	.16	.12	.11	.13	.09
Other writers, artists, entertain	.03	.06	.05	.02	.03	.01	.03	.03	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Wholesale and retail trade			Wholesale trade			Wholesale exc misc whsle trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	.75	.85	.69	1.47	1.60	1.22	1.45	1.59	1.23
Accountants	.48	.55	.47	1.02	1.13	.95	.99	1.11	.97
Lawyers	.02	.03	.03	.03	.05	.02	.03	.04	.02
Librarians	.00	.00	.00	.01	.01	.01	.01	.01	.02
Operations and systems research	.02	.03	.02	.07	.09	.06	.08	.10	.06
Personnel, labor relations wkrs	.20	.21	.14	.26	.26	.15	.27	.27	.15
Other research workers	.02	.01	.01	.05	.04	.02	.05	.04	.02
Managers, officials, proprietors	17.51	18.11	17.72	18.15	19.26	17.97	18.13	19.06	17.37
Buyers, sales, loan managers	3.67	3.47	3.78	4.93	4.60	4.71	5.33	4.88	4.75
Bank, financial managers	.09	.09	.08	.20	.19	.17	.20	.20	.18
Credit managers	.22	.13	.11	.34	.19	.16	.33	.18	.16
Buyers, shippers, farm products	.13	.11	.08	.53	.45	.38	.79	.65	.54
Buyers, wholesale, retail trade	.95	.85	.82	1.36	1.17	1.10	1.40	1.18	1.04
Sales manager, retail trade	1.68	1.69	2.09	.00	.00	.00	.00	.00	.00
Sales manager, exc retail trade	.60	.61	.61	2.51	2.60	2.90	2.62	2.67	2.83
Other managers, officials, proprts	13.84	14.64	13.94	13.22	14.66	13.26	12.80	14.18	12.62
Office managers, other	.52	.53	.50	1.29	1.26	1.15	1.28	1.23	1.00
Officers, pilots, pursers, ship	.00	.00	.00	.01	.01	.01	.01	.01	.01
Restaurant, cafe, bar, managers	2.56	2.68	2.40	.02	.02	.01	.02	.02	.01
Other managers, administrators	10.75	11.42	11.03	11.90	13.37	12.08	11.48	12.92	11.60
Sales workers	21.41	19.09	19.88	15.95	16.76	18.21	16.75	17.70	19.82
Advertising agents, sales worker	.02	.03	.03	.04	.05	.04	.03	.03	.03
Auctioneers	.01	.02	.01	.03	.03	.02	.04	.04	.03
Demonstrators	.33	.29	.25	.00	.00	.00	.00	.00	.00
Hucksters and peddlers	1.25	.97	.81	.00	.00	.00	.00	.00	.00
Newspaper carriers and vendors	.10	.14	.08	.00	.00	.00	.00	.00	.00
Other sales workers	19.70	17.65	18.70	15.88	16.68	18.15	16.68	17.62	19.76
Clerical workers	17.76	18.09	19.16	24.32	23.07	23.22	24.67	23.40	23.28
Stenographrs, typists, secretaries	2.91	2.80	2.88	6.99	6.63	7.08	6.95	6.61	6.91
Legal secretaries	.01	.00	.00	.01	.01	.01	.01	.01	.01
Other secretaries	2.20	2.21	2.34	5.39	5.31	5.84	5.35	5.27	5.62
Stenographers	.05	.03	.02	.14	.09	.06	.13	.09	.06
Typists	.65	.56	.52	1.44	1.23	1.17	1.45	1.25	1.22
Office machine operators	.61	.59	.46	1.35	1.28	.90	1.43	1.37	.89
Bookkeeping and billing	.10	.05	.05	.21	.11	.11	.20	.10	.09
Calculating	.08	.06	.07	.12	.07	.05	.13	.08	.04
Computer and peripheral equip	.10	.22	.17	.25	.52	.39	.29	.60	.46
Duplicating	.01	.01	.01	.02	.02	.02	.02	.02	.02
Keypunch	.26	.20	.11	.65	.48	.27	.69	.50	.24
Tabulating	.01	.00	.00	.02	.01	.00	.02	.01	.00
Other office machine operators	.05	.05	.04	.09	.08	.05	.08	.08	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Wholesale and retail trade			Wholesale trade			Wholesale exc misc whsle trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	14.24	14.70	15.82	15.98	15.15	15.25	16.30	15.43	15.48
Billing clerks	.26	.28	.35	.67	.68	.78	.66	.66	.71
Bookkeepers	3.40	3.21	2.77	4.81	4.51	4.12	4.68	4.40	3.99
Cashiers	4.75	5.53	6.75	.29	.30	.34	.30	.31	.35
Clerical supervisors, other	.13	.15	.17	.24	.26	.26	.23	.26	.24
Collectors, bill and account	.07	.07	.08	.04	.03	.03	.03	.03	.02
Counter clerks,exc food	.48	.51	.59	.93	.92	.98	.99	.97	.99
Dispatchers,starters,vehicle	.08	.08	.08	.18	.18	.19	.12	.13	.14
Estimators,investigators,other	.32	.38	.30	.36	.40	.28	.34	.37	.24
Expediters,prduction controlrs	.09	.10	.11	.24	.25	.27	.27	.26	.26
File clerks	.24	.20	.17	.43	.36	.37	.45	.37	.39
Library attendants, assistants	.01	.01	.00	.01	.01	.01	.01	.01	.00
Mail handlers,exc post office	.13	.12	.13	.19	.18	.17	.17	.16	.15
Messengers and office helpers	.04	.04	.02	.05	.05	.03	.04	.04	.02
Payroll,timekeeping clerks	.13	.15	.14	.18	.19	.17	.18	.19	.18
Receptionists	.22	.21	.17	.45	.40	.32	.44	.39	.30
Shipping and receiving clerks	.90	.81	.87	2.31	2.07	2.29	2.50	2.28	2.64
Statistical clerks	.19	.21	.23	.38	.41	.40	.38	.41	.41
Stock clerks and store keepers	1.16	1.04	1.03	1.68	1.48	1.48	1.89	1.64	1.59
Telephone operators	.19	.12	.10	.27	.17	.13	.27	.18	.15
Weighers	.05	.05	.05	.11	.11	.09	.12	.12	.07
Misc clerical workers	1.41	1.45	1.69	2.16	2.19	2.58	2.23	2.25	2.66
Crafts and kindred workers	9.10	9.02	8.99	11.18	11.57	11.98	12.01	12.46	12.82
Construction crafts workers	.70	.65	.54	.93	.86	.85	.81	.76	.70
Carpenters and apprentices	.26	.26	.18	.24	.22	.17	.15	.15	.14
Brick,stonemasons, apprentices	.01	.01	.01	.02	.01	.01	.01	.01	.01
Bulldozer operators	.02	.02	.03	.05	.05	.09	.03	.02	.02
Electricians and apprentices	.09	.09	.08	.22	.21	.19	.26	.24	.23
Excavating,grading mach operatr	.02	.02	.02	.05	.05	.06	.03	.02	.02
Floor layers, exc tile setters	.04	.02	.01	.02	.01	.01	.01	.00	.00
Painters and apprentices	.10	.09	.08	.15	.14	.12	.16	.15	.11
Plumbers,pipefitters,aprentices	.11	.10	.10	.14	.13	.15	.17	.15	.17
Structural metal craft workers	.01	.01	.01	.02	.02	.02	.01	.01	.01
Tile setters	.04	.02	.02	.02	.02	.03	.00	.00	.00
Blue collar worker supervisors	1.11	1.18	1.12	2.54	2.69	2.76	2.43	2.63	2.87
Metalworkg craft wrkrs,exc mech	.19	.19	.21	.59	.60	.71	.63	.65	.74
Boilermakers	.01	.01	.01	.02	.02	.02	.01	.01	.01
Machinists and apprentices	.11	.12	.13	.36	.39	.46	.43	.46	.50
Millwrights	.02	.02	.02	.04	.05	.05	.03	.04	.05
Pattern and moldmakers	.00	.00	.00	.02	.01	.02	.01	.01	.02
Sheetmetal workers, apprentices	.04	.04	.03	.09	.07	.08	.07	.07	.08
Tool and diemakers, apprentices	.01	.01	.02	.05	.04	.06	.06	.05	.07
Mechanics,repairers,installers	5.15	4.96	5.15	5.26	5.59	5.76	6.62	6.89	6.93
Air cond, heating, refig mech	.23	.29	.26	.24	.30	.25	.24	.27	.21
Aircraft mechanics	.01	.02	.02	.04	.04	.05	.05	.05	.07
Auto accessories installers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto body repairers	.46	.34	.37	.05	.04	.04	.06	.05	.04
Auto mechanics and apprentices	2.53	2.31	2.38	1.10	1.05	1.02	1.27	1.18	1.17
Data processing mach repairers	.06	.09	.12	.26	.37	.53	.37	.52	.72
Farm implement mechanics	.23	.23	.22	.34	.40	.44	.51	.57	.61
Heavy equip mech, incl diesel	.54	.64	.69	1.53	1.87	1.96	1.91	2.31	2.29
Household appliance mechanics	.21	.22	.23	.14	.14	.15	.17	.17	.18
Office machine repairers	.26	.20	.26	.77	.57	.65	1.03	.75	.82
Radio, television repairers	.24	.20	.17	.14	.11	.10	.19	.15	.13
Railroad, car shop repairers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other mechanics and apprentices	.38	.41	.43	.64	.68	.57	.82	.86	.68
Printing trade crafts workers	.07	.07	.06	.16	.16	.15	.11	.13	.15
Compositors and typesetters	.03	.03	.02	.08	.07	.07	.06	.06	.08
Engravers exc photoengravers	.01	.02	.01	.02	.01	.01	.00	.00	.00
Press,plate printers,aprentices	.02	.02	.02	.06	.06	.07	.05	.05	.06
Transport,public util craft wkrs	.05	.05	.04	.19	.18	.16	.27	.24	.21
Telephone installers,repairers	.05	.04	.03	.18	.17	.15	.27	.23	.21

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Wholesale and retail trade			Wholesale trade			Wholesale exc misc whsle trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.83	1.92	1.89	1.50	1.50	1.58	1.13	1.16	1.23
Bakers	.35	.34	.26	.20	.19	.21	.30	.27	.30
Cabinetmakers	.13	.11	.08	.04	.04	.03	.02	.03	.03
Carpet installers	.14	.15	.15	.05	.06	.07	.00	.00	.00
Crane,derrick,hoist operator	.07	.05	.05	.25	.21	.20	.04	.03	.04
Decorators, window dressers	.37	.52	.60	.08	.12	.14	.02	.03	.04
Dental laboratory technicians	.00	.00	.00	.01	.01	.01	.02	.01	.02
Furniture and wood finishers	.03	.03	.03	.01	.01	.02	.00	.00	.00
Glaziers	.08	.09	.09	.10	.10	.13	.02	.02	.03
Inspectors, lcg and lumber	.01	.01	.00	.03	.02	.01	.00	.00	.00
Inspectors, other	.06	.07	.05	.20	.23	.19	.24	.27	.24
Jewelers and watchmakers	.14	.13	.14	.10	.09	.12	.02	.03	.05
Millers, grain, flour, feed	.00	.00	.00	.01	.01	.01	.01	.01	.01
Opticians,lens grinder,polisher	.09	.12	.12	.15	.19	.21	.22	.28	.30
Shoe repairers	.01	.00	.01	.01	.00	.00	.01	.00	.00
Sign painters and letterers	.01	.01	.02	.01	.01	.00	.01	.01	.01
Stationary engineers	.05	.04	.04	.13	.12	.13	.10	.09	.10
Stone cutters, stone carvers	.01	.01	.00	.01	.01	.00	.00	.00	.00
Tailors	.12	.11	.09	.02	.02	.02	.02	.02	.02
Upholsterers	.09	.05	.06	.03	.02	.03	.02	.01	.02
Other crafts workers	.05	.06	.08	.06	.06	.07	.06	.06	.05
Operatives	11.45	9.92	8.65	17.32	16.45	17.42	15.83	14.95	16.32
Operatives,except transport	7.43	6.24	5.13	8.05	7.91	8.17	8.18	7.84	8.01
Semiskilled metalworking	.20	.20	.21	.72	.73	.81	.63	.64	.73
Drill press operatives	.01	.01	.00	.03	.02	.02	.04	.03	.02
Furnace tendrs,smelters,pourers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Grinding machine operatives	.01	.01	.01	.02	.02	.02	.03	.02	.02
Lathe,milling mach operatives	.02	.01	.01	.06	.05	.05	.07	.05	.05
Metal platers	.00	.00	.00	.02	.02	.02	.02	.02	.02
Other precision mach operators	.01	.01	.01	.02	.02	.02	.03	.02	.02
Punch,stamping press operatives	.01	.01	.01	.04	.04	.04	.04	.03	.03
Solderers	.01	.01	.00	.02	.02	.02	.03	.03	.03
Welders and flamecutters	.14	.15	.16	.49	.54	.62	.40	.44	.55
Semiskilled packing, inspecting	1.16	1.09	1.06	2.38	2.21	2.44	2.88	2.67	3.09
Meat wrappers, retail trade	.28	.28	.28	.00	.00	.00	.00	.00	.00
Packer,wrapper,exc meat,prodce	.74	.67	.64	1.82	1.65	1.81	2.06	1.89	2.22
Produce grdr, pkrs,exc fact,farm	.14	.14	.14	.57	.56	.63	.82	.78	.87
Other operatives, exc transport	6.06	4.95	3.86	4.94	4.98	4.92	4.66	4.54	4.19
Asbestos,insulation workers	.01	.01	.01	.02	.03	.03	.02	.03	.02
Assemblers	.13	.14	.19	.45	.52	.73	.52	.59	.82
Bottling,canning operatives	.02	.02	.02	.06	.07	.08	.07	.07	.07
Clothing ironers and pressers	.02	.02	.01	.02	.01	.01	.03	.02	.01
Cutting operatives, other	.13	.12	.13	.39	.38	.45	.15	.14	.14
Dressmakers, exc factory	.38	.39	.23	.18	.17	.10	.19	.16	.07
Drillers, earth	.00	.00	.00	.01	.01	.01	.01	.01	.01
Dyers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Filer,polisher,sander,buffer	.03	.03	.03	.06	.06	.07	.04	.04	.03
Garage wrkr,gas station atten	2.88	1.88	1.29	.14	.08	.04	.13	.08	.03
Laundry,dry cleang oprs,other	.01	.01	.02	.01	.01	.01	.01	.01	.01
Meat cutters,butchers,exc mfy	1.19	.96	.72	.62	.53	.41	.92	.76	.58
Milleners	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.04	.05	.05	.10	.11	.10	.12	.12	.08
Oilers,greasers,exc automobiles	.01	.01	.01	.03	.03	.03	.02	.03	.03
Painters, mfg articles	.09	.08	.08	.05	.05	.06	.05	.05	.06
Photographic process workers	.02	.02	.02	.04	.04	.04	.02	.03	.03
Sawyers	.05	.04	.03	.12	.09	.06	.01	.01	.02
Sewers and stitchers	.07	.06	.08	.08	.07	.10	.09	.07	.08
Furnace tendr,stkpr,exc metal	.02	.01	.01	.05	.03	.03	.03	.02	.03
Winding operatives, other	.01	.01	.02	.05	.05	.07	.06	.06	.08
Miscellaneous machine operatives	.42	.47	.42	1.10	1.14	1.09	1.01	1.05	.94
Other operatives,exc transport	.53	.61	.53	1.32	1.48	1.41	1.15	1.21	1.04
Transport equipment operatives	4.02	3.68	3.52	9.27	8.54	9.25	7.65	7.11	8.31
Bus drivers	.01	.01	.00	.01	.02	.01	.01	.02	.01
Delivery and route workers	1.92	1.68	1.56	3.97	3.34	3.17	3.69	3.02	2.83
Fork lift,tow motor operatives	.24	.28	.31	.71	.82	.96	.65	.73	.82
Parking attendants	.02	.03	.03	.01	.01	.00	.01	.01	.01
Taxicab drivers, chauffeurs	.04	.04	.03	.08	.06	.03	.07	.06	.03
Truck drivers	1.79	1.65	1.60	4.48	4.29	5.07	3.22	3.26	4.62
Service workers	14.41	17.13	17.72	1.31	1.20	1.05	1.36	1.24	1.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Wholesale and retail trade			Wholesale trade			Wholesale exc misc whsle trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Cleaning service workers	1.04	1.12	.87	.84	.78	.65	.88	.82	.67
Lodging qtrs cleaners,exc privt	.03	.03	.01	.00	.00	.00	.00	.00	.00
Bldg interior cleaners, other	.36	.41	.31	.20	.19	.16	.21	.19	.14
Janitors and sextons	.66	.69	.55	.64	.59	.49	.67	.62	.53
Food service workers	12.82	15.42	16.31	.18	.15	.16	.24	.19	.21
Bartenders	.94	1.18	1.26	.00	.00	.00	.00	.00	.00
Waiters' assistants	.49	.81	1.01	.00	.00	.01	.00	.00	.01
Cooks,exc private households	3.01	4.09	4.72	.07	.06	.06	.08	.07	.08
Dishwashers	.78	.81	.94	.01	.01	.01	.02	.01	.01
Food counter,fountain workers	1.12	1.61	1.85	.02	.02	.03	.03	.03	.04
Waiters	5.63	5.93	5.58	.02	.02	.02	.03	.02	.02
Other food serv wkrs,exc privt	.84	1.00	.97	.06	.04	.04	.08	.06	.05
Health service workers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Personal service workers	.36	.40	.35	.11	.11	.09	.09	.08	.06
Attendants,personal serv,other	.05	.05	.05	.02	.02	.02	.03	.02	.02
Barbers	.01	.00	.00	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.01	.01	.01	.00	.00	.00	.00	.00	.00
Elevator operators	.03	.03	.01	.04	.04	.02	.04	.04	.03
Hairdressers and cosmetologists	.15	.18	.17	.03	.04	.04	.00	.00	.00
Housekeepers, exc private homes	.11	.12	.11	.01	.01	.01	.01	.01	.01
Protective service workers	.18	.17	.17	.17	.16	.15	.15	.16	.17
Guards	.16	.16	.16	.16	.16	.14	.15	.15	.16
Police and detectives	.02	.02	.01	.00	.00	.00	.00	.00	.00
Laborers, except farm	5.75	5.81	5.33	7.35	6.97	6.23	6.44	6.11	5.13
Animal caretakers, exc farm	.04	.05	.03	.12	.15	.06	.17	.21	.07
Carpenter helpers	.03	.02	.03	.03	.03	.03	.02	.02	.03
Constr labr,exc carpenter helpr	.08	.07	.05	.11	.09	.09	.06	.05	.04
Fishers,hunters,trappers	.01	.00	.00	.01	.01	.01	.02	.02	.01
Freight and material handlers	.85	.83	.79	2.20	2.11	2.10	1.91	1.77	1.54
Gardenrs,groundkeepers,exc farm	.05	.06	.07	.07	.08	.09	.03	.03	.03
Longshore workers, stevedores	.00	.00	.00	.01	.01	.01	.01	.01	.01
Timbercutting, logging workers	.01	.01	.01	.02	.02	.03	.00	.00	.01
Stock handlers	3.55	3.73	3.53	2.08	2.09	1.72	2.29	2.25	1.73
Vehicle washers,equip cleaners	.24	.25	.19	.14	.13	.09	.17	.16	.10
Warehouse labcrers, other	.49	.42	.35	1.45	1.29	1.19	1.38	1.29	1.38
Other laborers	.39	.34	.28	1.12	.96	.82	.37	.30	.20

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motor vehicles and equip			Drugs, chemcis and allied prod			Dry goods and apparel		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.46	2.65	2.18	6.20	6.51	5.28	2.92	3.32	2.89
Engineers, technical	.39	.34	.30	.99	.87	.80	.10	.09	.07
Chemical	.00	.00	.00	.32	.31	.28	.00	.00	.00
Civil	.01	.01	.01	.04	.03	.03	.00	.00	.00
Electrical	.01	.01	.01	.08	.07	.07	.01	.01	.01
Industrial	.09	.09	.07	.06	.05	.03	.04	.04	.03
Mechanical	.10	.09	.09	.13	.13	.17	.02	.01	.01
Metallurgical	.00	.00	.00	.02	.01	.01	.00	.00	.00
Petroleum	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sales	.12	.08	.05	.19	.14	.14	.02	.02	.01
Other engineers	.08	.07	.07	.14	.11	.08	.01	.01	.01
Life and physical scientists	.02	.02	.02	.75	.76	.68	.00	.00	.00
Agricultural	.00	.00	.00	.01	.02	.03	.00	.00	.00
Biological	.00	.00	.00	.08	.12	.08	.00	.00	.00
Chemists	.02	.02	.02	.64	.62	.54	.00	.00	.00
Geologists	.00	.00	.00	.02	.02	.02	.00	.00	.00
Mathematical specialists	.03	.02	.02	.01	.01	.01	.01	.01	.01
Statisticians	.03	.02	.02	.00	.00	.00	.01	.01	.01
Engineering, science technicians	.12	.12	.12	.93	.89	.75	.06	.06	.06
Agricultural, biolgcl, exc health	.00	.00	.00	.02	.02	.02	.00	.00	.00
Chemical technicians	.00	.00	.00	.32	.30	.21	.00	.00	.00
Drafters	.04	.04	.04	.12	.11	.14	.00	.01	.01
Electrical and electronic	.01	.01	.01	.03	.03	.03	.02	.02	.02
Industrial engineering	.02	.03	.03	.03	.03	.02	.02	.03	.02
Other engineering, science teca	.04	.04	.04	.41	.40	.33	.02	.01	.01
Medical workers, exc technicians	.00	.00	.00	.21	.28	.33	.01	.01	.01
Pharmacists	.00	.00	.00	.17	.18	.27	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.01	.01	.02	.00	.00	.00
Registered nurses	.00	.00	.00	.02	.01	.01	.01	.01	.01
Other medical and health tech	.00	.00	.00	.01	.07	.04	.00	.00	.00
Health technologists, technicians	.00	.00	.00	.05	.07	.05	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.03	.03	.03	.00	.00	.00
Other health technicians	.00	.00	.00	.02	.03	.02	.00	.00	.00
Technicians, except health	.06	.07	.09	.10	.12	.09	.01	.01	.03
Airplane pilots	.01	.02	.03	.02	.03	.03	.00	.00	.00
Radio operators	.01	.01	.01	.01	.01	.01	.00	.00	.00
Tool programers, numerical	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other technicians except health	.03	.04	.03	.07	.08	.05	.01	.01	.03
Computer specialists	.22	.27	.24	.39	.46	.38	.29	.37	.32
Computer programers	.16	.19	.18	.29	.31	.23	.19	.22	.22
Computer systems analysts	.04	.06	.05	.10	.14	.14	.05	.08	.06
Other computer specialists	.01	.02	.01	.00	.00	.00	.05	.08	.05
Social scientists	.12	.17	.12	.31	.43	.30	.08	.12	.10
Economists	.12	.17	.12	.31	.43	.30	.08	.12	.10
Teachers	.04	.04	.01	.00	.00	.00	.01	.01	.01
Adult education	.04	.04	.01	.00	.00	.00	.01	.01	.01
Writers, artists, entertainers	.21	.24	.17	.51	.59	.50	1.37	1.57	1.32
Athletes and kindred workers	.03	.03	.01	.03	.03	.04	.00	.00	.00
Authors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Designers	.01	.01	.01	.12	.14	.12	1.10	1.24	1.07
Editors and reporters	.02	.02	.02	.07	.08	.08	.04	.04	.04
Painters and sculptors	.00	.00	.00	.07	.10	.08	.14	.17	.11
Photographers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Public relations specialists	.11	.13	.10	.20	.23	.16	.10	.12	.10
Other writers, artists, entertain	.03	.03	.01	.01	.01	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motor vehicles and equip			Drugs, chemicals and allied prod			Dry goods and apparel		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.24	1.36	1.10	1.97	2.04	1.40	.99	1.08	.95
Accountants	.85	.97	.89	1.17	1.26	.98	.74	.83	.79
Architects	.01	.01	.01	.02	.01	.01	.00	.00	.00
Home management advisors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Lawyers	.01	.01	.01	.08	.12	.06	.01	.01	.01
Librarians	.00	.00	.00	.03	.02	.00	.01	.01	.01
Operations and systems research	.07	.08	.03	.11	.13	.08	.01	.02	.02
Personnel, labor relations wkrs	.28	.28	.15	.37	.37	.23	.18	.17	.10
Other research workers	.03	.02	.01	.19	.13	.03	.04	.03	.02
Managers, officials, proprietors	20.73	22.11	21.16	16.49	17.53	17.39	18.86	19.75	17.70
Buyers, sales, loan managers	4.68	4.33	4.11	5.61	5.30	5.37	5.68	5.11	4.79
Bank, financial managers	.17	.16	.11	.22	.21	.18	.28	.26	.19
Credit managers	.35	.20	.17	.49	.28	.24	.36	.18	.11
Buyers, wholesale, retail trade	1.47	1.25	1.15	1.11	.97	.88	2.77	2.36	1.97
Sales manager, exc retail trade	2.70	2.72	2.68	3.80	3.84	4.06	2.27	2.31	2.53
Other managers, officials, proprts	16.04	17.78	17.05	10.88	12.23	12.02	13.18	14.64	12.91
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.01	.01	.01
Office managers, other	1.12	1.10	1.04	1.13	1.14	1.19	1.11	1.10	1.13
Officers, pilots, pursers, ship	.00	.00	.00	.02	.01	.01	.00	.00	.00
Restaurant, cafe, bar, managers	.02	.02	.02	.03	.02	.01	.00	.00	.00
Other managers, administrators	14.91	16.66	16.00	9.70	11.06	10.81	12.06	13.53	11.77
Sales workers	19.22	20.08	21.64	21.16	22.42	24.82	22.32	23.56	25.84
Advertising agents, sales worker	.02	.02	.03	.03	.04	.05	.02	.03	.02
Auctioneers	.04	.03	.04	.00	.00	.00	.00	.00	.00
Other sales workers	19.17	20.02	21.57	21.13	22.38	24.77	22.30	23.54	25.82
Clerical workers	25.32	23.91	23.19	30.06	28.02	26.59	31.64	29.55	29.96
Stenographers, typists, secretaries	4.97	4.65	4.69	8.95	8.43	9.03	7.91	7.40	7.86
Legal secretaries	.00	.00	.00	.02	.02	.04	.02	.02	.02
Medical secretaries	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other secretaries	3.83	3.69	3.81	6.77	6.66	7.46	5.96	5.80	6.34
Stenographers	.13	.09	.07	.12	.05	.00	.11	.06	.02
Typists	1.00	.86	.81	2.03	1.70	1.52	1.81	1.53	1.49
Office machine operators	1.44	1.45	.91	2.21	2.09	1.17	1.73	1.49	.91
Bookkeeping and billing	.17	.08	.05	.22	.09	.03	.40	.17	.07
Calculating	.09	.06	.04	.10	.05	.02	.15	.08	.03
Computer and peripheral equip	.32	.65	.44	.47	.97	.74	.25	.53	.42
Duplicating	.01	.01	.01	.03	.02	.00	.02	.01	.01
Keypunch	.75	.58	.34	1.29	.90	.37	.76	.56	.29
Tabulating	.03	.01	.00	.04	.01	.00	.01	.00	.00
Other office machine operators	.07	.06	.03	.07	.06	.01	.14	.13	.10

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motor vehicles and equip			Drugs, chemcls and allied prod			Dry goods and apparel		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	18.91	17.81	17.59	18.90	17.49	16.39	22.01	20.67	21.19
Billing clerks	.57	.56	.55	.73	.72	.75	.95	.94	1.04
Bookkeepers	5.62	5.20	4.93	3.72	3.38	2.80	5.87	5.58	5.61
Cashiers	.20	.22	.28	.36	.38	.48	.28	.28	.23
Clerical supervisors, other	.25	.28	.27	.32	.34	.30	.32	.35	.33
Collectors, bill and account	.03	.02	.02	.01	.01	.00	.03	.02	.02
Counter clerks,exc food	1.14	1.13	1.11	1.97	1.94	1.94	1.17	1.15	1.18
Dispatchers, starters, vehicle	.12	.12	.12	.09	.10	.11	.05	.05	.06
Estimators, investigators, other	.49	.54	.36	.37	.39	.23	.32	.34	.22
Expeditors, production controlrs	.34	.34	.36	.22	.20	.14	.39	.37	.33
File clerks	.44	.37	.36	.56	.46	.46	.76	.63	.65
Insurance adjusters, examiners	.01	.02	.02	.00	.00	.00	.01	.01	.02
Library attendants, assistants	.00	.00	.00	.03	.02	.00	.00	.00	.00
Mail handlers, exc post office	.17	.17	.15	.21	.19	.13	.24	.24	.24
Messengers and office helpers	.05	.04	.04	.04	.03	.01	.06	.05	.02
Payroll, timekeeping clerks	.15	.16	.15	.18	.18	.14	.24	.26	.24
Receptionists	.29	.26	.20	.59	.52	.41	.73	.65	.54
Shipping and receiving clerks	2.91	2.69	3.03	3.01	2.69	2.84	4.55	4.17	4.90
Statistical clerks	.43	.47	.49	.44	.47	.41	.76	.82	.79
Stock clerks and store keepers	3.38	2.88	2.44	2.09	1.67	1.14	2.43	2.00	1.59
Telephone operators	.21	.14	.09	.27	.17	.11	.34	.24	.24
Weighers	.01	.01	.01	.08	.07	.03	.03	.03	.03
Misc clerical workers	2.12	2.20	2.64	3.60	3.57	3.96	2.49	2.50	2.90
Crafts and kindred workers	14.04	13.72	14.02	4.68	4.92	5.43	4.39	4.56	5.14
Construction crafts workers	.53	.51	.52	.75	.68	.60	.24	.23	.27
Carpenters and apprentices	.11	.12	.13	.13	.13	.13	.07	.07	.09
Brick, stonemasons, apprentices	.01	.01	.00	.02	.01	.01	.00	.00	.00
Bulldozer operators	.01	.01	.02	.02	.01	.01	.01	.01	.01
Electricians and apprentices	.12	.12	.14	.15	.15	.14	.07	.07	.10
Excavating, grading mach operatr	.00	.00	.00	.03	.02	.01	.00	.00	.00
Floor layers, exc tile setters	.01	.00	.01	.00	.00	.00	.02	.01	.00
Painters and apprentices	.23	.21	.16	.26	.23	.16	.06	.05	.03
Plumbers, pipefitters, apprentices	.05	.05	.06	.13	.12	.14	.01	.01	.02
Structural metal craft workers	.01	.00	.00	.01	.01	.01	.00	.00	.00
Tile setters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	2.17	2.41	2.83	2.33	2.52	2.87	2.08	2.27	2.68
Metalworkg craft wrkrs, exc mech	1.28	1.24	1.10	.23	.24	.28	.00	.00	.00
Machinists and apprentices	1.15	1.10	.91	.16	.17	.21	.00	.00	.00
Millwrights	.03	.03	.05	.06	.06	.07	.00	.00	.00
Pattern and mcldmakers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.04	.04	.05	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.05	.05	.07	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	9.48	8.96	8.93	.77	.82	.90	.36	.39	.41
Air cond, heating, refrig mech	.06	.07	.06	.01	.01	.01	.02	.03	.04
Aircraft mechanics	.02	.03	.08	.01	.01	.01	.00	.00	.00
Auto accessories installers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Auto body repairers	.45	.33	.23	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	7.01	6.31	5.93	.14	.12	.12	.07	.06	.05
Farm implement mechanics	.04	.04	.05	.02	.02	.02	.00	.00	.00
Heavy equip mech, incl diesel	1.44	1.73	2.20	.38	.45	.57	.17	.20	.23
Household appliance mechanics	.03	.03	.04	.02	.01	.01	.02	.02	.02
Loom fixers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Office machine repairers	.00	.00	.00	.01	.01	.03	.00	.00	.00
Radio, television repairers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Railroad, car shop repairers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.35	.34	.26	.18	.18	.14	.06	.05	.03
Printing trade crafts workers	.06	.06	.04	.15	.18	.22	.14	.18	.32
Compositors and typesetters	.03	.03	.02	.07	.08	.10	.07	.09	.18
Press, plate printers, apprentices	.02	.03	.02	.08	.09	.12	.07	.09	.14

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motor vehicles and equip			Drugs, chemcls and allied prod			Dry goods and apparel		
	1970	1978	1990 ⁵	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.51	.54	.60	.45	.48	.56	1.57	1.49	1.46
Cabinetmakers	.02	.02	.02	.02	.02	.04	.01	.02	.02
Crane,derrick,hoist operator	.01	.01	.01	.04	.04	.07	.01	.01	.03
Decorators, window dressers	.00	.00	.00	.04	.07	.12	.09	.14	.14
Furriers	.00	.00	.00	.00	.00	.00	.03	.02	.02
Glaziers	.10	.12	.14	.04	.05	.06	.00	.00	.00
Inspectors, other	.20	.23	.24	.15	.17	.18	.61	.68	.72
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Motion picture projectionists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Shoe repairers	.00	.00	.00	.00	.00	.00	.16	.05	.03
Stationary engineers	.04	.04	.05	.10	.09	.07	.03	.02	.03
Tailors	.00	.00	.00	.00	.00	.00	.40	.37	.31
Upholsterers	.04	.03	.04	.00	.00	.00	.17	.11	.08
Other crafts workers	.08	.08	.08	.04	.03	.03	.06	.06	.06
Operatives	11.50	10.83	11.51	11.44	11.12	12.86	12.97	12.55	12.41
Operatives,except transport	5.78	5.42	5.57	5.31	5.18	5.38	11.34	10.93	10.25
Semiskilled metalworking	.91	.88	1.01	.13	.12	.11	.01	.01	.01
Drill press operatives	.03	.02	.01	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.05	.04	.02	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.10	.07	.06	.01	.01	.01	.00	.00	.00
Metal platers	.04	.03	.02	.01	.01	.01	.00	.00	.00
Other precision mach operators	.06	.05	.05	.01	.01	.01	.01	.01	.01
Punch,stamping press operatives	.04	.03	.02	.01	.01	.01	.00	.00	.00
Solderers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.59	.64	.83	.10	.09	.08	.00	.00	.00
Semiskilled packing, inspecting	1.28	1.23	1.43	2.70	2.50	2.76	2.95	2.85	3.69
Packer,wrapper,exc meat,proce	1.28	1.23	1.43	2.70	2.50	2.76	2.95	2.85	3.69
Other operatives, exc transport	3.59	3.31	3.12	2.48	2.55	2.52	8.38	8.07	6.55
Assemblers	.48	.56	.83	.00	.00	.00	.00	.00	.00
Bottling,canning operatives	.00	.00	.00	.12	.12	.11	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.44	.32	.19
Cutting operatives, other	.06	.06	.07	.11	.11	.08	.80	.78	.77
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	3.03	2.87	1.22
Drillers, earth	.01	.01	.01	.00	.00	.00	.00	.00	.00
Dyers	.00	.00	.00	.05	.05	.07	.08	.09	.13
Filer,polisher,sander,buffer	.09	.08	.06	.00	.00	.00	.01	.01	.01
Garage wrkr,gas station atten	.86	.45	.13	.01	.01	.01	.01	.01	.01
Laundry,dry cleang oprs,other	.00	.00	.00	.00	.00	.00	.02	.02	.01
Meat cutters,butchers,exc mfg	.01	.00	.00	.00	.00	.00	.03	.03	.02
Milleners	.00	.00	.00	.00	.00	.00	.04	.03	.01
Mixing operatives	.03	.03	.02	.40	.40	.37	.02	.02	.02
Oilers,greasers,exc automobiles	.05	.05	.04	.02	.02	.04	.00	.00	.00
Painters, mfg articles	.16	.14	.16	.00	.00	.00	.00	.00	.00
Photographic process workers	.01	.01	.01	.02	.01	.01	.01	.02	.03
Riveters and fasteners	.01	.01	.01	.00	.00	.00	.01	.01	.01
Sawyers	.02	.01	.01	.00	.00	.00	.01	.01	.01
Sewers and stitchers	.02	.02	.03	.00	.00	.00	1.16	1.01	1.32
Shoemaking machine operatives	.00	.00	.00	.00	.00	.00	.05	.04	.02
Furnace tendr,stokr,exc metal	.02	.01	.01	.06	.04	.04	.03	.02	.03
Winding operatives, other	.02	.02	.02	.00	.00	.00	.05	.06	.07
Miscellaneous machine operatives	1.13	1.18	1.12	1.01	1.06	1.08	1.10	1.13	1.09
Other operatives,exc transport	.63	.67	.59	.68	.74	.72	1.48	1.62	1.59
Transport equipment operatives	5.73	5.41	5.95	6.13	5.94	7.48	1.64	1.62	2.16
Bus drivers	.01	.02	.02	.10	.16	.06	.00	.00	.00
Delivery and route workers	2.59	2.31	2.68	2.40	2.15	2.64	.71	.65	.86
Fork lift,tow motor operatives	.61	.74	.89	.56	.64	.72	.16	.19	.23
Parking attendants	.02	.02	.00	.00	.00	.00	.01	.01	.00
Taxicab drivers, chauffeurs	.21	.21	.14	.04	.03	.01	.17	.18	.15
Truck drivers	2.29	2.13	2.22	3.02	2.96	4.06	.59	.60	.93
Service workers	1.07	1.00	.92	1.13	1.03	.91	1.49	1.36	1.25
Cleaning service workers	.80	.74	.61	.83	.73	.54	.74	.70	.64
Bldg interior cleaners, other	.20	.18	.13	.20	.17	.09	.34	.34	.36
Janitors and sextons	.61	.56	.48	.63	.56	.46	.40	.36	.29

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motor vehicles and equip			Drugs, chemcls and allied prod			Dry goods and apparel		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.08	.07	.09	.13	.11	.13	.05	.03	.02
Cooks,exc private households	.03	.03	.03	.02	.02	.01	.02	.02	.01
Dishwashers	.01	.01	.01	.02	.01	.01	.00	.00	.00
Food counter,fountain workers	.03	.03	.04	.05	.05	.07	.00	.00	.00
Waiters	.01	.01	.01	.02	.02	.03	.00	.00	.00
Other food serv wkrs,exc privt	.00	.00	.00	.02	.02	.01	.02	.01	.01
Health service workers	.00	.00	.00	.02	.03	.04	.01	.01	.02
Health aides, except nursing	.00	.00	.00	.02	.03	.04	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.00	.00	.00	.01	.01	.02
Personal service workers	.02	.02	.02	.02	.03	.04	.58	.50	.43
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.46	.37	.31
Elevator operators	.01	.01	.01	.02	.03	.04	.08	.07	.05
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.04	.06	.07
Protective service workers	.17	.17	.20	.14	.14	.16	.12	.12	.14
Guards	.17	.17	.20	.13	.13	.16	.12	.12	.13
Laborers, except farm	5.66	5.70	5.38	8.83	8.47	6.73	5.40	5.35	4.81
Animal caretakers, exc farm	.00	.00	.00	.02	.02	.02	.00	.00	.00
Carpenter helpers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Constr labr,exc carpenter helpr	.04	.03	.01	.05	.04	.03	.00	.00	.00
Freight and material handlers	.96	.96	1.11	1.29	1.23	1.27	.90	.86	.90
Gardenrs,groundkeepers,exc farm	.01	.01	.01	.03	.02	.02	.02	.02	.02
Timbercutting, logging workers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Stock handlers	2.79	2.90	2.35	5.44	5.26	3.40	3.47	3.49	2.69
Teamsters	.00	.00	.00	.00	.00	.00	.02	.02	.02
Vehicle washers,equip cleaners	.43	.39	.21	.05	.05	.03	.06	.05	.03
Warehouse labcrers, other	1.31	1.29	1.55	1.80	1.71	1.84	.80	.80	1.05
Other laborers	.09	.08	.09	.16	.14	.12	.14	.12	.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food and related products			Farm prods-raw materials			Electrical goods		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.90	2.15	1.80	2.61	3.09	2.74	7.97	7.82	6.48
Engineers, technical	.15	.14	.13	.14	.13	.12	3.26	2.69	2.23
Chemical	.00	.00	.00	.00	.00	.00	.02	.01	.01
Civil	.01	.01	.02	.03	.03	.03	.03	.02	.01
Electrical	.01	.01	.01	.01	.01	.01	1.10	.99	.85
Industrial	.05	.05	.04	.04	.05	.04	.21	.22	.20
Mechanical	.05	.04	.04	.02	.02	.02	.22	.19	.16
Sales	.01	.01	.01	.02	.01	.01	1.26	.90	.72
Other engineers	.02	.02	.01	.02	.02	.02	.43	.35	.28
Life and physical scientists	.07	.08	.09	.11	.12	.12	.06	.05	.04
Agricultural	.01	.01	.03	.05	.06	.05	.00	.00	.00
Biological	.02	.02	.02	.00	.00	.00	.00	.00	.00
Chemists	.05	.05	.04	.06	.06	.07	.03	.03	.02
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Mathematical specialists	.01	.01	.01	.01	.01	.00	.02	.02	.03
Statisticians	.01	.01	.01	.01	.01	.00	.02	.02	.03
Engineering, science technicians	.19	.20	.19	.25	.25	.23	1.45	1.47	1.40
Agricultural, biolgccl, exc health	.10	.11	.10	.07	.08	.07	.02	.02	.02
Chemical technicians	.01	.01	.02	.02	.02	.02	.00	.00	.00
Drafters	.01	.01	.01	.07	.06	.06	.33	.28	.28
Electrical and electronic	.00	.00	.00	.00	.00	.00	.86	.94	.90
Industrial engineering	.02	.02	.02	.01	.01	.01	.04	.05	.05
Mathematical technicians	.00	.00	.00	.00	.00	.00	.01	.01	.03
Mechanical engineering	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other engineering, science tech	.05	.05	.03	.08	.09	.07	.19	.17	.11
Medical workers, exc technicians	.01	.01	.01	.05	.06	.08	.04	.04	.03
Registered nurses	.01	.01	.01	.01	.01	.01	.04	.04	.03
Veterinarians	.00	.00	.00	.04	.04	.07	.00	.00	.00
Health technolcists, technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.01	.01	.01	.00	.00	.00
Technicians, except health	.03	.03	.04	.10	.12	.11	.15	.17	.14
Airplane pilots	.01	.02	.02	.04	.06	.06	.02	.02	.02
Radio operators	.00	.00	.00	.01	.01	.01	.01	.02	.01
Tool programers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other technicians except health	.01	.02	.02	.05	.06	.04	.11	.13	.09
Computer specialists	.20	.25	.21	.16	.20	.17	.39	.51	.47
Computer programers	.15	.17	.15	.11	.13	.11	.21	.24	.24
Computer systems analysts	.04	.06	.05	.03	.05	.04	.15	.22	.20
Other computer specialists	.01	.02	.02	.01	.02	.02	.03	.04	.03
Social scientists	.05	.07	.04	.08	.12	.09	.19	.27	.20
Economists	.05	.07	.04	.08	.12	.09	.19	.27	.20
Teachers	.00	.00	.00	.00	.00	.00	.05	.05	.06
Adult education	.00	.00	.00	.00	.00	.00	.04	.04	.01
Preschool and kindergarten	.00	.00	.00	.00	.00	.00	.01	.01	.05
Writers, artists, entertainers	.15	.18	.13	.21	.26	.21	.53	.58	.38
Designers	.00	.00	.00	.02	.03	.02	.14	.16	.13
Editors and reporters	.02	.02	.02	.04	.04	.05	.08	.08	.06
Painters and sculptors	.03	.03	.01	.01	.01	.01	.09	.11	.08
Photographers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Public relations specialists	.10	.12	.09	.13	.17	.13	.15	.16	.08
Other writers, artists, entertain	.01	.01	.01	.01	.01	.01	.05	.06	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food and related products			Farm prods-raw materials			Electrical goods		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.04	1.16	.95	1.51	1.80	1.61	1.84	1.97	1.51
Accountants	.77	.89	.80	1.24	1.50	1.41	1.22	1.33	1.08
Architects	.00	.00	.00	.00	.00	.00	.01	.01	.02
Farm management advisors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Home management advisors	.01	.01	.01	.00	.00	.00	.01	.01	.01
Lawyers	.02	.03	.02	.04	.07	.03	.01	.02	.01
Librarians	.00	.00	.00	.01	.01	.01	.01	.03	.10
Operations and systems research	.02	.02	.01	.02	.03	.03	.15	.17	.09
Personnel, labor relations wkrs	.19	.19	.10	.13	.13	.07	.37	.35	.18
Other research workers	.03	.02	.01	.05	.05	.03	.07	.06	.03
Managers, officials, proprietors	14.11	14.92	13.28	33.78	31.09	32.54	18.28	19.23	17.77
Buyers, sales, loan managers	3.72	3.45	3.48	18.65	13.68	17.40	6.03	5.66	5.82
Bank, financial managers	.13	.13	.11	.07	.08	.08	.32	.31	.25
Credit managers	.13	.07	.06	.09	.06	.05	.59	.33	.30
Buyers, shippers, farm products	.46	.35	.52	17.27	12.41	16.41	.00	.00	.00
Buyers, wholesale, retail trade	1.28	1.12	1.02	.57	.47	.33	1.66	1.45	1.31
Sales manager, exc retail trade	1.73	1.79	1.77	.65	.66	.54	3.47	3.57	3.97
Other managers, officials, proprts	10.39	11.46	9.79	15.13	17.42	15.14	12.25	13.57	11.95
Mgrs, superintendents, building	.00	.00	.00	.02	.02	.02	.01	.01	.01
Office managers, other	.76	.73	.59	1.06	1.09	.98	1.35	1.37	1.46
Officers, pilots, pursers, ship	.03	.03	.03	.00	.00	.00	.00	.00	.00
Restaurant, cafe, bar, managers	.03	.02	.01	.02	.02	.01	.01	.01	.01
Other managers, administrators	9.57	10.68	9.17	14.04	16.29	14.13	10.88	12.18	10.47
Sales workers	11.86	12.70	13.43	5.95	7.06	9.30	18.46	19.39	20.48
Advertising agents, sales worker	.03	.04	.04	.01	.02	.03	.06	.07	.06
Auctioneers	.00	.00	.00	.81	.78	.79	.00	.00	.00
Other sales workers	11.83	12.67	13.39	5.12	6.26	8.48	18.40	19.32	20.43
Clerical workers	15.86	15.13	13.70	19.80	19.56	17.36	30.27	28.70	29.22
Stenographers, typists, secretaries	3.47	3.31	3.24	4.31	4.36	4.51	9.57	8.87	8.75
Legal secretaries	.01	.00	.00	.03	.02	.01	.01	.01	.01
Other secretaries	2.78	2.73	2.75	3.44	3.59	3.76	7.36	7.07	7.21
Stenographers	.07	.05	.06	.08	.06	.09	.18	.13	.12
Typists	.61	.52	.44	.75	.68	.65	2.01	1.66	1.41
Office machine operators	1.20	1.13	.58	.95	.85	.45	1.53	1.48	1.10
Bookkeeping and billing	.10	.04	.01	.10	.05	.02	.23	.13	.14
Calculating	.21	.12	.03	.26	.15	.05	.14	.11	.10
Computer and peripheral equip	.24	.50	.34	.13	.31	.26	.28	.58	.45
Duplicating	.01	.01	.01	.00	.00	.00	.03	.03	.03
Key punch	.58	.42	.16	.32	.22	.07	.75	.57	.34
Tabulating	.01	.00	.00	.02	.01	.00	.03	.01	.01
Other office machine operators	.05	.05	.03	.12	.11	.05	.07	.06	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food and related products			Farm prods-raw materials			Electrical goods		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	11.19	10.69	9.88	14.55	14.36	12.40	19.17	18.34	19.37
Billing clerks	.38	.38	.39	.36	.39	.41	.74	.73	.76
Bookkeepers	4.02	3.75	3.17	8.44	8.23	7.00	4.52	4.24	3.93
Cashiers	.64	.71	.87	.30	.33	.34	.20	.21	.24
Clerical supervisors, other	.10	.12	.11	.12	.13	.09	.25	.26	.20
Collectors, bill and account	.01	.01	.02	.00	.00	.00	.05	.04	.04
Counter clerks,exc food	.67	.67	.63	.13	.13	.08	1.10	1.09	1.14
Dispatchers,starters,vehicle	.15	.15	.15	.05	.05	.05	.12	.12	.14
Enumerators and interviewers	.01	.01	.00	.00	.00	.00	.01	.01	.02
Estimators,investigators,other	.10	.11	.06	.07	.07	.03	.52	.59	.45
Expeditors,production controls	.07	.07	.05	.04	.04	.03	.52	.54	.60
File clerks	.17	.14	.12	.17	.16	.18	.71	.58	.59
Mail handlers,exc post office	.09	.09	.08	.12	.11	.08	.20	.19	.18
Messengers and office helpers	.03	.03	.03	.06	.06	.03	.04	.04	.03
Payroll,timekeeping clerks	.22	.24	.22	.20	.26	.33	.14	.15	.11
Receptionists	.23	.20	.14	.16	.14	.08	.55	.49	.40
Shipping and receiving clerks	1.55	1.46	1.62	.45	.47	.61	3.11	2.80	3.05
Statistical clerks	.22	.24	.20	.52	.56	.40	.50	.56	.62
Stock clerks and store keepers	.75	.63	.45	.36	.30	.17	2.35	2.11	2.33
Telephone operators	.15	.11	.09	.16	.12	.09	.47	.32	.29
Weighers	.27	.25	.18	1.24	1.20	.85	.00	.00	.00
Misc clerical workers	1.36	1.34	1.33	1.60	1.62	1.57	3.09	3.28	4.28
Crafts and kindred workers	7.31	7.73	8.10	6.25	6.95	6.73	11.60	11.38	10.85
Construction crafts workers	.41	.38	.36	.62	.57	.42	1.55	1.44	1.13
Carpenters and apprentices	.12	.12	.12	.22	.22	.14	.12	.11	.07
Brick,stonemasons, apprentices	.01	.01	.01	.02	.01	.01	.00	.00	.00
Bulldozer operators	.07	.06	.06	.08	.06	.02	.01	.01	.02
Electricians and apprentices	.09	.09	.10	.11	.12	.12	1.19	1.10	.84
Excavating,grading mach operatr	.01	.01	.01	.05	.04	.02	.00	.00	.00
Painters and apprentices	.07	.06	.03	.06	.05	.02	.11	.10	.09
Plasterers and apprentices	.00	.00	.00	.01	.01	.02	.00	.00	.00
Plumbers,pipefitters,aprentices	.03	.03	.04	.05	.05	.07	.11	.09	.09
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	3.18	3.52	3.82	2.55	2.91	3.03	2.43	2.55	2.61
Metalworkg craft wkrs,exc meca	.13	.14	.16	.00	.00	.01	.69	.67	.75
Machinists and apprentices	.13	.13	.15	.00	.00	.00	.38	.40	.47
Millwrights	.00	.00	.00	.00	.00	.00	.03	.03	.03
Pattern and mldmakers	.00	.00	.00	.00	.00	.00	.04	.03	.03
Sheetmetal workers, apprentices	.01	.01	.01	.00	.00	.01	.10	.08	.09
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.15	.13	.13
Mechanics,repairers,installers	1.80	1.87	1.67	1.27	1.42	1.38	4.21	4.17	4.29
Air cond, heating, reffig mech	.15	.17	.12	.01	.02	.03	.34	.39	.30
Aircraft mechanics	.01	.01	.02	.00	.00	.00	.02	.02	.02
Auto body repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.71	.65	.56	.27	.26	.24	.13	.12	.16
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.09	.12	.18
Farm implement mechanics	.02	.02	.04	.14	.14	.10	.02	.02	.02
Heavy equip mech, incl diesel	.73	.83	.79	.76	.92	.97	.65	.77	1.02
Household appliance mechanics	.01	.01	.02	.01	.01	.01	.81	.84	.90
Office machine repairers	.00	.00	.00	.00	.00	.00	.06	.04	.05
Radio, television repairers	.01	.01	.02	.01	.02	.03	1.25	.96	.73
Other mechanics and apprentices	.16	.15	.09	.06	.05	.01	.84	.89	.92
Printing trade crafts workers	.09	.10	.11	.04	.04	.04	.10	.10	.06
Compositors and typesetters	.05	.06	.07	.03	.03	.03	.03	.03	.02
Press,plate printers,aprentices	.03	.04	.04	.01	.01	.01	.06	.06	.04
Transport,public util craft wkrs	.00	.00	.00	.00	.00	.00	2.13	1.97	1.59
Elec pwr line instaler,repairer	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers,repairers	.00	.00	.00	.00	.00	.00	2.10	1.93	1.56
Telephone line instalr,splicers	.00	.00	.00	.00	.00	.00	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food and related products			Farm prods-raw materials			Electrical goods		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.71	1.73	1.98	1.78	2.01	1.84	.49	.49	.42
Bakers	1.33	1.31	1.56	.01	.01	.01	.00	.00	.00
Cabinetmakers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Carpet installers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Crane,derrick,hoist operator	.00	.00	.00	.06	.06	.09	.03	.02	.02
Decorators, window dressers	.03	.06	.08	.00	.00	.00	.02	.02	.02
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Furriers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Inspectors, other	.18	.20	.18	1.37	1.58	1.35	.30	.31	.25
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Millers, grain, flour, feed	.00	.00	.00	.22	.25	.28	.00	.00	.00
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.01	.00	.00
Stationary engineers	.12	.11	.13	.07	.07	.09	.06	.05	.03
Other crafts workers	.03	.03	.02	.04	.04	.02	.03	.03	.05
Operatives	36.18	35.27	39.37	16.63	17.50	20.69	8.46	8.62	10.39
Operatives,except transport	17.22	17.14	17.43	7.61	7.81	6.35	5.72	6.03	7.36
Semiskilled metalworking	.05	.05	.05	.01	.01	.00	.80	.74	.78
Drill press operatives	.00	.00	.00	.00	.00	.00	.04	.03	.03
Grinding machine operatives	.00	.00	.00	.00	.00	.00	.02	.02	.02
Lathe,milling mach operatives	.00	.00	.00	.00	.00	.00	.07	.05	.04
Metal platers	.00	.00	.00	.00	.00	.00	.04	.05	.07
Other precision mach operators	.00	.00	.00	.01	.01	.00	.05	.04	.05
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.11	.10	.13
Solderers	.00	.00	.00	.00	.00	.00	.13	.13	.11
Welders and flamecutters	.05	.05	.05	.00	.00	.00	.34	.33	.34
Semiskilled packing, inspecting	8.46	8.60	10.53	1.31	1.26	1.15	.88	.82	.87
Packer,wrapper,exc meat,prodc	4.80	4.78	6.03	.95	.91	.84	.88	.82	.87
Produce grdr, pkrs,exc fact, farm	3.66	3.82	4.50	.36	.36	.30	.00	.00	.00
Other operatives, exc transport	8.71	8.49	6.85	6.30	6.54	5.21	4.04	4.46	5.71
Asbestos,insulation workers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Assemblers	.00	.00	.00	.00	.00	.00	1.76	1.96	2.64
Bottling,canning operatives	.25	.26	.27	.02	.02	.01	.00	.00	.00
Cutting operatives, other	.14	.13	.11	.15	.15	.12	.10	.10	.12
Dressmakers, exc factory	.02	.02	.01	.00	.00	.00	.00	.00	.00
Dyers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Filer,polisher,sander,buffer	.00	.00	.00	.03	.03	.02	.06	.06	.07
Garage wrkr,gas station atten	.03	.02	.01	.27	.19	.14	.01	.01	.02
Laundry,dry cleang oprs,other	.03	.02	.01	.00	.00	.00	.00	.00	.00
Meat cutters,butchers,exc mfg	4.02	3.61	2.92	.54	.49	.34	.02	.01	.01
Mixing operatives	.17	.17	.13	.91	.90	.65	.00	.00	.00
Oilers,greasers,exc automobiles	.04	.04	.06	.06	.06	.09	.01	.01	.01
Painters, mfg articles	.01	.01	.01	.00	.00	.00	.07	.06	.09
Photographic process workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Sewers and stitchers	.02	.02	.02	.05	.04	.03	.00	.00	.00
Furnace tendr,stokr,exc metal	.04	.03	.05	.00	.00	.00	.04	.03	.03
Winding operatives, other	.01	.01	.02	.00	.00	.00	.36	.38	.47
Miscellaneous machine operatives	1.49	1.53	1.26	2.60	2.76	2.20	.78	.86	1.07
Other operatives,exc transport	2.46	2.62	1.96	1.65	1.89	1.62	.81	.95	1.13
Transport equipment operatives	18.96	18.12	21.94	9.01	9.69	14.34	2.74	2.59	3.03
Bus drivers	.01	.02	.01	.01	.02	.01	.00	.00	.00
Delivery and route workers	10.35	8.76	7.76	1.51	1.41	1.55	1.15	.96	.88
Fork lift,tow motor operatives	1.59	1.85	1.92	.27	.32	.30	.38	.46	.61
Parking attendants	.01	.01	.01	.01	.02	.01	.01	.01	.01
Taxicab drivers, chauffeurs	.05	.04	.00	.06	.06	.04	.05	.03	.01
Truck drivers	6.94	7.45	12.24	7.16	7.87	12.44	1.16	1.13	1.53
Service workers	2.15	1.98	2.05	2.67	2.56	2.18	.90	.86	.85
Cleaning service workers	1.19	1.15	1.05	1.21	1.18	.90	.66	.63	.62
Bldg interior cleaners, other	.27	.24	.12	.35	.38	.34	.15	.15	.14
Janitors and sextons	.92	.91	.94	.85	.80	.56	.50	.48	.49
Food service wrkrs	.66	.54	.69	.54	.43	.47	.08	.07	.05
Waiters' assistants	.01	.01	.05	.00	.00	.00	.00	.00	.00
Cooks,exc private households	.23	.20	.25	.23	.21	.22	.03	.02	.01
Dishwashers	.05	.03	.04	.03	.02	.01	.00	.00	.00
Food counter,fountain workers	.05	.06	.11	.03	.03	.01	.02	.02	.02
Waiters	.06	.04	.05	.21	.16	.22	.01	.00	.00
Other food serv wrks,exc privt	.27	.20	.19	.03	.02	.01	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food and related products			Farm prods-raw materials			Electrical goods		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.06	.05	.03	.52	.53	.45	.03	.03	.03
Attendants, personal serv, other	.02	.01	.01	.00	.00	.00	.01	.01	.01
Child care workers, exc private	.00	.00	.00	.03	.02	.03	.00	.00	.00
Elevator operators	.02	.02	.01	.47	.49	.42	.01	.01	.01
Housekeepers, exc private homes	.03	.02	.01	.02	.02	.01	.01	.01	.01
Protective service wrkrs	.23	.24	.28	.41	.42	.36	.14	.14	.15
Guards	.22	.23	.28	.41	.42	.36	.13	.13	.14
Laborers, except farm	10.64	10.12	8.28	12.32	12.19	8.46	4.06	4.01	3.97
Animal caretakers, exc farm	.04	.05	.04	3.88	4.17	2.39	.00	.00	.00
Carpenter helpers	.03	.02	.04	.02	.02	.03	.00	.00	.00
Constr labr, exc carpenter helpr	.04	.04	.03	.06	.05	.02	.09	.08	.07
Fishers, hunters, trappers	.09	.08	.04	.00	.00	.00	.00	.00	.00
Freight and material handlers	4.98	4.75	4.16	5.32	5.08	3.81	.70	.68	.74
Gardenrs, groundkeepers, exc farm	.06	.07	.06	.05	.06	.04	.01	.01	.01
Longshore workers, stevedores	.05	.04	.04	.07	.09	.14	.00	.00	.00
Timbercutting, logging workers	.01	.01	.02	.01	.01	.01	.00	.00	.00
Stock handlers	2.32	2.36	1.64	.75	.78	.50	1.58	1.66	1.46
Teamsters	.02	.01	.01	.01	.01	.03	.00	.00	.00
Vehicle washers, equip cleaners	.26	.26	.18	.12	.10	.03	.03	.03	.03
Warehouse laborers, other	1.82	1.73	1.65	.68	.68	.66	1.52	1.44	1.52
Other laborers	.91	.70	.38	1.35	1.16	.80	.12	.11	.13

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hardware and plumbing			Machinery equipment, supplies			Misc wholesale trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	3.54	3.41	3.02	7.35	7.49	5.71	3.64	3.91	3.43
Engineers, technical	1.63	1.34	1.24	2.38	1.99	1.82	.55	.44	.39
Aeronautical	.00	.00	.00	.02	.02	.02	.00	.00	.00
Chemical	.02	.01	.01	.04	.03	.03	.03	.03	.03
Civil	.02	.01	.01	.05	.04	.04	.06	.04	.02
Electrical	.04	.04	.03	.32	.29	.24	.02	.02	.02
Industrial	.10	.11	.09	.15	.15	.11	.07	.07	.08
Mechanical	.38	.35	.35	.33	.30	.30	.07	.06	.05
Metallurgical	.00	.00	.00	.01	.01	.01	.01	.01	.02
Mining	.00	.00	.00	.00	.00	.00	.00	.01	.01
Petroleum	.00	.00	.00	.01	.01	.01	.03	.02	.02
Sales	.93	.70	.64	.99	.74	.69	.18	.12	.08
Other engineers	.13	.11	.12	.47	.40	.38	.08	.07	.07
Life and physical scientists	.02	.02	.02	.07	.07	.05	.16	.18	.20
Agricultural	.00	.00	.00	.00	.00	.00	.04	.05	.04
Biological	.00	.00	.00	.01	.01	.01	.01	.01	.01
Chemists	.02	.02	.02	.06	.05	.03	.08	.08	.09
Geologists	.00	.00	.00	.00	.00	.00	.04	.04	.06
Mathematical specialists	.00	.00	.00	.02	.02	.01	.02	.02	.03
Mathematicians	.00	.00	.00	.01	.01	.01	.00	.00	.01
Statisticians	.00	.00	.00	.01	.01	.01	.02	.02	.02
Engineering, science technicians	.31	.28	.30	.88	.82	.68	.35	.36	.44
Agricultural, biolgcl, exc health	.00	.00	.00	.00	.00	.00	.02	.02	.02
Chemical technicians	.00	.00	.00	.02	.02	.02	.02	.02	.03
Drafters	.22	.18	.19	.34	.28	.29	.16	.13	.14
Electrical and electronic	.03	.03	.04	.31	.32	.24	.03	.03	.04
Industrial engineering	.00	.00	.00	.02	.02	.02	.01	.02	.04
Mechanical engineering	.00	.00	.00	.00	.00	.00	.00	.01	.01
Surveyors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other engineering, science tech	.07	.07	.07	.19	.17	.12	.10	.11	.15
Medical workers, exc technicians	.01	.01	.01	.05	.05	.05	.01	.01	.02
Pharmacists	.00	.00	.00	.01	.01	.02	.00	.00	.01
Registered nurses	.01	.01	.01	.02	.02	.02	.01	.01	.02
Therapists	.00	.00	.00	.01	.02	.01	.00	.00	.00
Health technologists, technicians	.00	.00	.00	.03	.04	.02	.00	.00	.00
Other health technicians	.00	.00	.00	.02	.03	.01	.00	.00	.00
Technicians, except health	.03	.03	.02	.23	.26	.19	.07	.10	.11
Airplane pilots	.02	.02	.01	.05	.06	.05	.02	.03	.03
Radio operators	.01	.00	.00	.01	.01	.00	.01	.01	.01
Tool programmers, numerical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other technicians except health	.01	.01	.01	.15	.17	.13	.04	.06	.08
Computer specialists	.19	.22	.20	1.32	1.62	.97	.21	.27	.24
Computer programmers	.16	.18	.17	.61	.63	.39	.14	.16	.14
Computer systems analysts	.02	.03	.02	.57	.74	.43	.07	.10	.08
Other computer specialists	.01	.02	.01	.15	.25	.14	.01	.02	.01
Social scientists	.05	.07	.05	.19	.26	.16	.16	.24	.21
Economists	.05	.07	.05	.19	.26	.16	.16	.24	.21
Teachers	.01	.01	.01	.08	.07	.02	.01	.01	.01
Adult education	.01	.01	.01	.08	.07	.02	.01	.01	.01
Writers, artists, entertainers	.23	.27	.20	.41	.46	.37	.56	.65	.58
Athletes and kindred workers	.00	.00	.00	.03	.02	.02	.01	.02	.02
Designers	.06	.06	.04	.16	.18	.16	.19	.20	.16
Editors and reporters	.02	.02	.01	.04	.04	.04	.05	.05	.05
Musicians and composers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Painters and sculptors	.06	.08	.06	.04	.05	.03	.08	.10	.11
Photographers	.01	.01	.01	.03	.03	.02	.03	.02	.02
Public relations specialists	.05	.06	.05	.09	.11	.08	.18	.22	.18
Other writers, artists, entertain	.03	.04	.03	.03	.04	.02	.02	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and Projected 1990

	Hardware and plumbing			Machinery equipment, supplies			Misc wholesale trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.06	1.16	.97	1.69	1.83	1.38	1.53	1.64	1.20
Accountants	.86	.97	.86	1.10	1.22	1.07	1.10	1.18	.89
Architects	.02	.02	.01	.01	.01	.01	.01	.01	.01
Foresters and conservationists	.00	.00	.00	.00	.00	.00	.03	.02	.01
Lawyers	.00	.01	.00	.04	.06	.02	.05	.07	.03
Librarians	.00	.00	.00	.02	.02	.01	.01	.01	.00
Operations and systems research	.00	.00	.00	.13	.16	.09	.05	.06	.06
Personnel, labor relations wkrs	.16	.16	.09	.34	.32	.16	.24	.24	.15
Other research workers	.02	.01	.01	.05	.04	.01	.05	.04	.03
Vocation, education counselors	.00	.00	.00	.01	.01	.01	.00	.00	.01
Managers, officials, proprietors	18.56	19.71	18.61	18.10	18.76	16.48	18.20	19.72	19.38
Buyers, sales, loan managers	5.26	4.81	4.70	4.57	4.31	4.17	4.10	3.98	4.63
Bank, financial managers	.22	.23	.23	.21	.22	.21	.19	.19	.16
Credit managers	.59	.33	.27	.29	.16	.13	.37	.20	.17
Buyers, wholesale, retail trade	2.36	2.11	1.94	1.05	.87	.68	1.28	1.16	1.23
Sales manager, exc retail trade	2.09	2.14	2.26	3.02	3.06	3.15	2.27	2.43	3.06
Other managers, officials, proprt	13.31	14.90	13.91	13.53	14.46	12.31	14.09	15.75	14.75
Mgrs, superintendents, building	.00	.00	.00	.01	.01	.01	.01	.01	.01
Office managers, other	1.88	1.86	1.74	1.70	1.49	.86	1.31	1.34	1.50
Officers, pilots, pursers, snip	.00	.00	.00	.01	.01	.01	.02	.02	.02
Restaurant, cafe, bar, managers	.02	.02	.01	.02	.02	.01	.01	.01	.01
Other managers, administrators	11.40	13.02	12.16	11.79	12.94	11.42	12.75	14.37	13.21
Sales workers	19.22	20.09	20.61	17.13	18.24	21.12	14.32	14.65	14.47
Advertising agents, sales worker	.02	.03	.02	.02	.02	.01	.06	.08	.07
Auctioneers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Other sales workers	19.19	20.06	20.59	17.11	18.22	21.11	14.25	14.56	14.40
Clerical workers	31.60	29.78	29.79	24.82	23.71	24.17	23.60	22.31	23.08
Stenographers, typists, secretaries	7.88	7.31	7.13	8.75	8.29	8.81	7.08	6.69	7.46
Legal secretaries	.00	.00	.00	.01	.01	.01	.02	.02	.02
Other secretaries	5.86	5.67	5.76	6.77	6.59	7.06	5.46	5.39	6.33
Stenographers	.20	.12	.07	.16	.10	.05	.16	.09	.05
Typists	1.83	1.52	1.30	1.81	1.59	1.69	1.44	1.19	1.07
Office machine operators	1.54	1.28	.99	1.29	1.34	.94	1.19	1.09	.91
Bookkeeping and billing	.33	.19	.22	.21	.12	.13	.25	.13	.17
Calculating	.25	.20	.25	.04	.02	.00	.09	.07	.07
Computer and peripheral equip	.16	.35	.27	.31	.66	.54	.17	.34	.24
Duplicating	.02	.02	.05	.03	.02	.01	.02	.02	.02
Keypunch	.68	.45	.13	.58	.42	.20	.55	.45	.34
Tabulating	.01	.00	.00	.01	.00	.00	.02	.01	.00
Other office machine operators	.09	.08	.07	.11	.10	.06	.09	.08	.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hardware and plumbing			Machinery equipment, supplies			Misc wholesale trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	22.18	21.19	21.67	14.79	14.08	14.42	15.33	14.53	14.70
Billing clerks	1.23	1.21	1.23	.72	.73	.80	.69	.72	.95
Bookkeepers	5.69	5.38	4.94	4.13	3.86	3.69	5.08	4.77	4.44
Cashiers	.29	.31	.35	.13	.12	.10	.26	.28	.32
Clerical supervisors, other	.22	.24	.22	.28	.32	.32	.25	.29	.31
Collectors, bill and account	.01	.01	.01	.06	.05	.03	.05	.05	.04
Counter clerks, exc food	1.51	1.53	1.62	.78	.78	.80	.81	.82	.97
Dispatchers, starters, vehicle	.17	.17	.19	.14	.14	.15	.30	.30	.32
Estimators, investigators, other	.34	.38	.27	.41	.42	.22	.40	.46	.37
Expeditors, production controlrs	.29	.29	.32	.29	.28	.25	.20	.21	.28
File clerks	.56	.47	.48	.46	.40	.44	.41	.33	.31
Library attendants, assistants	.01	.01	.01	.02	.02	.01	.02	.02	.01
Mail handlers, exc post office	.16	.16	.19	.19	.18	.17	.24	.23	.21
Messengers and office helpers	.01	.01	.01	.06	.05	.02	.07	.06	.03
Payroll, timekeeping clerks	.17	.18	.15	.16	.18	.18	.17	.18	.14
Receptionists	.60	.54	.44	.53	.46	.33	.46	.41	.35
Shipping and receiving clerks	3.72	3.37	3.56	2.21	2.08	2.52	1.91	1.62	1.46
Statistical clerks	.39	.44	.45	.32	.34	.34	.37	.39	.37
Stock clerks and store keepers	2.68	2.45	2.78	1.78	1.59	1.64	1.26	1.11	1.22
Telephone operators	.37	.23	.12	.26	.17	.15	.28	.17	.09
Weighters	.00	.00	.00	.01	.01	.01	.09	.10	.14
Misc clerical workers	3.77	3.81	4.34	1.84	1.90	2.27	2.02	2.03	2.39
Crafts and kindred workers	8.81	9.18	8.98	20.37	19.93	19.97	9.48	9.58	10.01
Construction crafts workers	1.67	1.51	1.40	.91	.85	.81	1.18	1.07	1.21
Carpenters and apprentices	.28	.26	.18	.18	.18	.18	.44	.38	.23
Brick, stonemasons, apprentices	.01	.01	.01	.01	.01	.01	.03	.03	.02
Bulldozer operators	.01	.01	.02	.02	.02	.02	.10	.11	.24
Electricians and apprentices	.12	.11	.08	.18	.18	.19	.14	.13	.09
Excavating, grading mach operatr	.11	.10	.10	.04	.03	.03	.09	.10	.16
Floor layers, exc tile setters	.01	.01	.00	.00	.00	.00	.05	.03	.04
Painters and apprentices	.06	.06	.06	.26	.23	.16	.12	.12	.15
Paperhangers	.00	.00	.00	.00	.00	.00	.00	.01	.01
Plumbers, pipefitters, apprentices	1.05	.94	.92	.20	.19	.22	.09	.08	.10
Structural metal craft workers	.01	.01	.01	.02	.01	.01	.05	.04	.06
Tile setters	.02	.01	.02	.00	.00	.00	.06	.05	.09
Blue collar worker supervisors	2.35	2.52	2.62	2.08	2.25	2.49	2.76	2.83	2.51
Metalworkg craft wrkrs, exc mech	.96	.90	1.00	.97	.98	1.16	.50	.49	.63
Blacksmiths	.00	.00	.00	.01	.01	.00	.01	.01	.00
Boilermakers	.12	.11	.13	.02	.02	.02	.03	.03	.03
Job and die setters, metal	.00	.00	.00	.02	.02	.02	.01	.01	.01
Machinists and apprentices	.33	.34	.38	.64	.66	.76	.22	.24	.37
Millwrights	.03	.03	.02	.06	.07	.10	.07	.07	.06
Pattern and moldmakers	.01	.01	.01	.03	.02	.03	.02	.01	.01
Sheetmetal workers, apprentices	.39	.34	.38	.10	.09	.10	.12	.09	.09
Tool and diemakers, apprentices	.09	.07	.08	.09	.09	.13	.02	.02	.03
Mechanics, repairers, installers	3.19	3.64	3.39	14.81	14.20	13.69	2.46	2.67	3.06
Air cond, heating, refrig meca	2.02	2.35	1.77	.09	.11	.09	.25	.35	.35
Aircraft mechanics	.01	.01	.01	.14	.14	.15	.01	.01	.01
Auto body repairers	.00	.00	.00	.02	.02	.03	.03	.03	.02
Auto mechanics and apprentices	.20	.20	.27	.64	.58	.55	.76	.76	.68
Data processing mach repairers	.00	.00	.00	1.25	1.59	2.14	.03	.05	.07
Farm implement mechanics	.00	.00	.00	1.72	1.74	1.78	.02	.02	.04
Heavy equip mech, incl diesel	.47	.59	.84	4.91	5.37	4.78	.74	.90	1.19
Household appliance mechanics	.15	.16	.18	.20	.18	.14	.08	.08	.08
Office machine repairers	.03	.02	.03	3.59	2.35	2.46	.25	.17	.27
Radio, television repairers	.02	.01	.01	.12	.10	.11	.03	.02	.01
Railroad, car shop repairers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Other mechanics and apprentices	.29	.31	.29	2.12	2.03	1.47	.26	.29	.33
Printing trade crafts workers	.23	.24	.22	.13	.15	.21	.26	.23	.15
Bookbinders	.00	.00	.00	.01	.01	.01	.02	.01	.00
Compositors and typesetters	.11	.11	.09	.07	.08	.12	.11	.09	.05
Engravers exc photoengravers	.01	.01	.01	.01	.01	.01	.04	.03	.02
Press, plate printers, apprentices	.10	.11	.13	.04	.05	.07	.08	.08	.08
Transport, public util craft wrks	.02	.02	.02	.05	.05	.04	.04	.04	.05
Locomotive engineers' helpers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Power station operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers, repairers	.02	.02	.02	.05	.04	.04	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hardware and plumbing			Machinery equipment, supplies			Misc wholesale trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.39	.36	.33	1.42	1.46	1.59	2.27	2.25	2.40
Bakers	.02	.02	.01	.00	.00	.00	.00	.00	.01
Cabinetmakers	.02	.02	.01	.05	.05	.06	.08	.06	.02
Carpet installers	.01	.01	.01	.00	.00	.00	.14	.17	.21
Crane,derrick,hoist operator	.09	.07	.05	.07	.06	.06	.70	.60	.59
Decorators, window dressers	.01	.02	.02	.01	.01	.00	.20	.33	.38
Dental laboratory technicians	.00	.00	.00	.06	.03	.05	.00	.00	.00
Furniture and wood finishers	.01	.00	.00	.00	.00	.00	.03	.03	.06
Glaziers	.03	.03	.03	.00	.00	.00	.27	.29	.35
Inspectors, lcg and lumber	.00	.00	.00	.00	.00	.00	.10	.07	.02
Inspectors, other	.06	.06	.05	.12	.14	.15	.12	.12	.08
Jewelers and watchmakers	.00	.00	.00	.07	.07	.13	.27	.25	.28
Opticians,lens grinder,polisher	.00	.00	.00	.79	.87	.90	.01	.01	.00
Piano,organ tuners, repairers	.00	.00	.00	.00	.00	.00	.00	.00	.01
Sign painters and letterers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Stationary engineers	.09	.08	.07	.13	.12	.15	.22	.20	.21
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Tailors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Upholsterers	.01	.01	.01	.02	.01	.02	.04	.03	.05
Other crafts workers	.06	.06	.07	.09	.08	.06	.07	.07	.12
Operatives	9.79	9.37	10.68	8.27	8.11	9.23	20.36	19.83	19.95
Operatives,except transport	3.87	3.67	3.40	4.54	4.61	5.04	7.79	8.08	8.53
Semiskilled metalworking	.69	.64	.66	1.26	1.19	1.31	.90	.94	1.00
Drill press operatives	.07	.05	.03	.08	.06	.03	.02	.01	.01
Furnace tendrs,smeltrs,pourers	.00	.00	.00	.00	.00	.00	.03	.03	.03
Grinding machine operatives	.07	.05	.05	.04	.03	.02	.02	.02	.03
Lathe,milling mach operatives	.10	.07	.08	.15	.10	.09	.05	.04	.05
Metal platers	.03	.03	.04	.02	.01	.01	.01	.02	.02
Other precisicn mach operators	.03	.03	.03	.03	.02	.01	.01	.01	.02
Punch,stamping press operatives	.03	.03	.04	.06	.05	.04	.04	.04	.05
Solderers	.02	.02	.02	.04	.04	.03	.02	.01	.01
Welders and flamecutters	.36	.36	.36	.84	.88	1.08	.70	.76	.79
Semiskilled packing, inspecting	1.43	1.13	.61	.70	.68	.87	1.36	1.18	.93
Packer,wrapper,exc meat,prodc	1.43	1.13	.61	.70	.68	.87	1.31	1.12	.86
Produce grdr, pkrs,exc fact,farm	.00	.00	.00	.00	.00	.00	.05	.06	.08
Other operatives, exc transport	1.76	1.90	2.13	2.59	2.73	2.86	5.52	5.96	6.59
Asbestos,insulation workers	.04	.06	.06	.04	.06	.05	.03	.04	.03
Assemblers	.46	.52	.71	.76	.83	1.03	.32	.35	.50
Blasters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Bottling,canning operatives	.00	.00	.00	.02	.02	.03	.05	.06	.09
Cutting operatives, other	.15	.17	.21	.09	.09	.09	.88	.92	1.18
Dressmakers, exc factory	.00	.00	.00	.03	.03	.01	.16	.18	.17
Drillers, earth	.00	.00	.00	.04	.03	.02	.02	.02	.02
Filer,polisher,sander,buffer	.08	.08	.10	.05	.04	.03	.11	.11	.16
Garage wrkr,gas station atten	.01	.01	.01	.01	.01	.01	.16	.10	.06
Laundry,dry cleang oprs,other	.00	.00	.00	.01	.01	.01	.00	.01	.01
Meat cutters,butchers,exc mfg	.02	.02	.01	.02	.02	.02	.01	.01	.01
Mixing operatives	.00	.00	.00	.02	.02	.03	.08	.08	.12
Oilers,greasers,exc automobiles	.02	.01	.01	.02	.02	.02	.05	.04	.03
Painters, mfg articles	.02	.02	.03	.08	.06	.05	.05	.05	.07
Photographic process workers	.04	.05	.05	.05	.05	.06	.07	.07	.06
Riveters and fasteners	.02	.03	.03	.00	.00	.00	.01	.01	.02
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.03	.02	.02
Sawyers	.04	.03	.02	.03	.03	.04	.34	.27	.15
Sewers and stitchers	.00	.00	.00	.02	.02	.03	.06	.07	.13
Furnace tendr,stkpr,exc metal	.02	.01	.01	.03	.02	.04	.09	.05	.03
Winding operatives, other	.00	.00	.00	.04	.04	.03	.03	.03	.04
Miscellaneous machine operatves	.43	.45	.40	.58	.60	.58	1.29	1.35	1.42
Other operatives,exc transport	.39	.45	.49	.67	.74	.71	1.69	2.10	2.25
Transport equipment operatives	5.92	5.70	7.27	3.73	3.50	4.19	12.58	11.75	11.41
Delivery and route workers	2.04	1.73	1.61	1.80	1.51	1.42	4.55	4.07	3.96
Fork lift,tow motor operatives	.31	.37	.43	.30	.36	.44	.82	1.00	1.30
Parking attendants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Railroad switch operators	.00	.00	.00	.00	.00	.00	.02	.02	.02
Taxicab drivers, chauffeurs	.04	.03	.01	.03	.02	.01	.09	.07	.02
Truck drivers	3.53	3.57	5.22	1.59	1.60	2.32	7.08	6.58	6.11
Service workers	.95	.89	.81	1.03	.92	.75	1.19	1.10	.91
Cleaning service workers	.71	.67	.59	.80	.72	.53	.77	.71	.59
Bldg interior cleaners, other	.14	.14	.14	.15	.15	.13	.19	.20	.19
Janitors and sextons	.57	.53	.45	.64	.57	.40	.58	.51	.39

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hardware and plumbing			Machinery equipment, supplies			Misc wholesale trade		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.04	.04	.04	.11	.09	.10	.07	.06	.05
Cooks,exc private households	.01	.01	.01	.04	.03	.04	.03	.03	.02
Food counter,fountain workers	.02	.02	.02	.01	.01	.02	.01	.01	.01
Waiters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other food serv wkrs,exc privt	.00	.00	.00	.04	.03	.03	.01	.01	.01
Health service workers	.01	.01	.04	.01	.01	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.02	.00	.00	.00	.00	.00	.00
Practical nurses	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.10	.08	.04	.03	.02	.02	.15	.17	.17
Flight attendants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Attendants, personal serv, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Child care workers, exc private	.01	.01	.01	.00	.00	.00	.00	.00	.00
Elevator operators	.06	.05	.01	.01	.01	.01	.04	.03	.02
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.10	.12	.13
Housekeepers, exc private homes	.01	.01	.01	.02	.01	.01	.01	.01	.01
Protective service workers	.09	.09	.11	.09	.09	.09	.19	.17	.10
Guards	.09	.09	.11	.08	.08	.09	.19	.17	.09
Laborers, except farm	7.52	7.56	7.51	2.93	2.84	2.59	9.22	8.90	8.78
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.02	.02	.01
Carpenter helpers	.05	.04	.07	.03	.02	.04	.06	.04	.04
Constr labr,exc carpenter helpr	.20	.18	.14	.07	.05	.03	.19	.17	.20
Freight and material handlers	1.13	1.12	1.27	.55	.52	.50	2.79	2.88	3.39
Gardenrs,groundkeepers,exc farm	.01	.01	.01	.03	.03	.03	.16	.18	.24
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.02	.02	.02
Timbercutting, logging workers	.00	.00	.00	.00	.00	.00	.06	.06	.08
Stock handlers	3.43	3.63	3.19	1.08	1.11	.90	1.64	1.73	1.71
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Vehicle washers,equip cleaners	.01	.01	.01	.13	.13	.09	.07	.07	.06
Warehouse labcrers, other	2.48	2.39	2.60	.85	.81	.87	1.58	1.28	.74
Other laborers	.22	.19	.22	.19	.16	.14	2.64	2.44	2.28

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metals, minerals, other			Petroleum products			Scrap and waste material		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.72	4.88	4.62	6.17	6.69	5.19	.71	.81	.76
Engineers, technical	1.28	1.08	1.05	1.07	.90	.73	.10	.10	.13
Chemical	.04	.03	.01	.12	.13	.13	.00	.00	.00
Civil	.13	.08	.04	.20	.13	.08	.01	.01	.01
Electrical	.04	.05	.05	.03	.03	.04	.01	.00	.00
Industrial	.18	.20	.25	.09	.08	.03	.03	.05	.11
Mechanical	.14	.12	.10	.13	.14	.16	.01	.01	.01
Metallurgical	.09	.10	.14	.00	.00	.00	.00	.00	.00
Mining	.03	.04	.10	.01	.01	.01	.00	.00	.00
Petroleum	.00	.00	.00	.16	.14	.10	.00	.00	.00
Sales	.47	.30	.13	.17	.13	.11	.02	.01	.00
Other engineers	.16	.16	.24	.15	.11	.06	.02	.02	.01
Life and physical scientists	.26	.27	.33	.35	.34	.47	.05	.07	.09
Biological	.00	.00	.00	.01	.02	.05	.00	.00	.00
Chemists	.23	.25	.30	.13	.11	.06	.05	.07	.09
Geologists	.03	.02	.03	.22	.21	.36	.00	.00	.00
Mathematical specialists	.06	.07	.10	.05	.06	.06	.00	.00	.00
Mathematicians	.00	.00	.00	.01	.02	.04	.00	.00	.00
Statisticians	.06	.07	.10	.04	.04	.03	.00	.00	.00
Engineering, science technicians	.80	.84	1.21	.54	.51	.43	.08	.10	.13
Chemical technicians	.05	.06	.09	.04	.04	.04	.00	.00	.00
Drafters	.51	.44	.50	.20	.16	.12	.02	.02	.01
Electrical and electronic	.03	.05	.08	.05	.05	.03	.00	.00	.00
Industrial engineering	.02	.05	.11	.01	.02	.01	.00	.00	.00
Mathematical technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mechanical engineering	.03	.05	.12	.00	.00	.00	.00	.00	.00
Surveyors	.02	.01	.01	.04	.04	.04	.01	.01	.01
Other engineering, science tecn	.14	.18	.31	.18	.19	.18	.06	.08	.11
Medical workers, exc technicians	.02	.02	.01	.03	.03	.05	.00	.00	.00
Registered nurses	.02	.02	.01	.03	.03	.05	.00	.00	.00
Technicians, except health	.03	.03	.02	.16	.22	.25	.01	.00	.00
Airplane pilots	.01	.01	.01	.05	.08	.11	.00	.00	.00
Radio operators	.01	.01	.01	.04	.05	.02	.00	.00	.00
Other technicians except health	.01	.01	.01	.06	.09	.11	.01	.00	.00
Computer specialists	.25	.32	.25	.39	.51	.43	.02	.02	.02
Computer programers	.13	.14	.12	.23	.27	.24	.02	.02	.02
Computer systems analysts	.12	.16	.12	.14	.20	.17	.00	.00	.00
Other computer specialists	.01	.02	.02	.02	.04	.02	.00	.00	.00
Social scientists	.12	.17	.13	.52	.78	.59	.01	.01	.00
Economists	.12	.17	.13	.52	.78	.59	.01	.01	.00
Teachers	.01	.01	.01	.02	.02	.01	.00	.00	.00
Adult education	.01	.01	.01	.02	.02	.01	.00	.00	.00
Writers, artists, entertainers	.19	.18	.08	.22	.26	.22	.03	.04	.03
Designers	.03	.03	.01	.00	.00	.00	.01	.01	.00
Editors and reporters	.03	.02	.01	.02	.03	.05	.00	.00	.00
Painters and sculptors	.03	.02	.01	.02	.01	.00	.00	.00	.00
Photographers	.01	.01	.01	.01	.00	.00	.00	.00	.00
Public relations specialists	.08	.09	.05	.15	.20	.17	.02	.03	.03
Other writers, artists, entertain	.01	.01	.00	.01	.01	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metals, minerals, other			Petroleum products			Scrap and waste material		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.70	1.89	1.42	2.82	3.08	1.96	.43	.48	.36
Accountants	1.23	1.35	1.04	2.10	2.24	1.50	.35	.40	.29
Architects	.00	.00	.00	.02	.01	.01	.00	.00	.00
Lawyers	.08	.12	.07	.17	.28	.14	.01	.02	.01
Operations and systems research	.04	.06	.05	.10	.13	.09	.00	.00	.00
Personnel, labor relations wkrs	.29	.31	.23	.38	.39	.21	.06	.06	.06
Other research workers	.06	.05	.03	.04	.03	.01	.01	.00	.00
Managers, officials, proprietors	15.31	16.63	15.77	19.87	21.79	21.58	19.46	19.43	14.63
Buyers, sales, loan managers	4.77	4.60	4.92	3.10	2.73	2.07	2.85	2.73	3.18
Bank, financial managers	.21	.21	.19	.17	.15	.07	.12	.13	.09
Credit managers	.46	.26	.21	.55	.30	.19	.01	.00	.00
Buyers, wholesale, retail trade	1.50	1.38	1.38	.35	.28	.14	2.47	2.28	2.67
Sales manager, exc retail trade	2.60	2.75	3.14	2.02	2.00	1.67	.25	.31	.43
Other managers, officials, proprts	10.54	12.02	10.85	16.77	19.06	19.51	16.61	16.70	11.45
Mgrs, superintendents, building	.01	.02	.02	.03	.03	.02	.00	.00	.00
Office managers, other	1.31	1.34	1.41	1.23	1.21	1.01	.55	.60	.60
Officers, pilots, pursers, ship	.00	.00	.00	.09	.07	.04	.00	.00	.00
Restaurant, cafe, bar, managers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Other managers, administrators	9.22	10.67	9.42	15.42	17.76	18.44	16.05	16.08	10.84
Sales workers	12.58	13.01	11.63	7.18	7.72	8.22	3.42	3.52	3.25
Advertising agents, sales worker	.02	.02	.02	.02	.03	.02	.01	.01	.00
Other sales workers	12.56	12.99	11.61	7.16	7.69	8.20	3.41	3.51	3.25
Clerical workers	24.74	23.95	25.01	24.41	22.78	21.13	7.33	7.48	7.87
Stenographers, typists, secretaries	8.90	8.65	9.55	6.03	5.69	5.86	2.36	2.51	2.97
Legal secretaries	.02	.01	.02	.07	.05	.03	.00	.00	.00
Other secretaries	6.69	6.82	7.98	4.59	4.55	4.98	2.03	2.22	2.76
Stenographers	.30	.21	.19	.30	.18	.07	.04	.02	.01
Typists	1.90	1.60	1.36	1.06	.90	.78	.30	.27	.21
Office machine operators	1.25	1.17	1.04	1.31	.85	.33	.13	.14	.15
Bookkeeping and billing	.29	.16	.19	.19	.08	.04	.04	.03	.07
Calculating	.12	.09	.11	.19	.09	.02	.01	.01	.01
Computer and peripheral equip	.17	.35	.25	.00	.01	.00	.03	.07	.05
Duplicating	.02	.03	.06	.02	.01	.01	.00	.00	.00
Keypunch	.58	.48	.39	.76	.56	.25	.04	.03	.02
Tabulating	.03	.01	.00	.05	.01	.00	.01	.00	.00
Other office machine operators	.05	.05	.04	.10	.08	.02	.01	.01	.01
Other clerical workers	14.59	14.14	14.41	17.07	16.25	14.94	4.84	4.82	4.75
Billing clerks	.58	.61	.73	.43	.45	.50	.08	.09	.10
Bookkeepers	3.12	3.01	2.88	7.61	7.33	7.82	2.47	2.26	1.81
Cashiers	.08	.08	.08	.30	.32	.34	.19	.23	.25
Clerical supervisors, other	.24	.28	.34	.45	.48	.36	.11	.15	.21
Collectors, bill and account	.03	.04	.07	.15	.11	.02	.01	.01	.01
Counter clerks, exc food	.85	.89	1.05	.26	.25	.21	.07	.08	.10
Dispatchers, starters, vehicle	.26	.28	.34	1.09	1.02	.76	.09	.10	.11
Estimators, investigators, other	.43	.53	.47	.74	.76	.35	.03	.04	.03
Expeditors, production controls	.45	.48	.55	.25	.24	.16	.04	.06	.12
File clerks	.47	.40	.41	.39	.32	.27	.07	.07	.09
Insurance adjusters, examiners	.00	.00	.00	.01	.02	.02	.00	.00	.00
Library attendants, assistants	.01	.01	.01	.03	.03	.00	.00	.00	.00
Mail handlers, exc post office	.22	.23	.29	.27	.24	.16	.01	.00	.00
Messengers and office helpers	.08	.07	.05	.05	.04	.02	.03	.03	.02
Payroll, timekeeping clerks	.24	.24	.17	.20	.22	.22	.14	.15	.08
Real estate appraisers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Receptionists	.54	.52	.50	.40	.30	.17	.11	.11	.08
Shipping and receiving clerks	1.83	1.54	1.18	.34	.34	.46	.23	.22	.19
Statistical clerks	.30	.36	.45	.48	.49	.34	.10	.13	.22
Stock clerks and store keepers	1.49	1.36	1.46	.57	.45	.26	.19	.20	.25
Telephone operators	.52	.30	.14	.21	.13	.08	.10	.04	.00
Weighers	.17	.20	.29	.01	.01	.02	.45	.51	.62
Misc clerical workers	2.69	2.71	2.95	2.79	2.67	2.47	.35	.38	.48
Crafts and kindred workers	13.23	12.72	13.00	9.88	10.78	11.74	13.98	13.81	14.79

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metals, minerals, other			Petroleum products			Scrap and waste material		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	1.78	1.58	1.72	.79	.81	.97	.66	.76	1.25
Carpenters and apprentices	.22	.16	.04	.13	.15	.18	.12	.12	.09
Brick,stonemasons, apprentices	.07	.06	.05	.02	.02	.01	.01	.01	.01
Bulldozer operators	.18	.21	.47	.04	.03	.02	.13	.16	.35
Cement and concrete finishers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Electricians and apprentices	.50	.45	.28	.14	.14	.13	.06	.07	.11
Excavating,grading mach operatr	.17	.18	.33	.03	.02	.02	.24	.27	.47
Painters and apprentices	.18	.18	.21	.15	.13	.08	.06	.07	.10
Plumbers,pipefitters,apprentices	.22	.14	.05	.26	.30	.53	.02	.03	.05
Structural metal craft workers	.24	.19	.29	.01	.01	.00	.03	.03	.06
Tile setters	.00	.00	.00	.00	.00	.01	.00	.00	.00
Blue collar worker supervisors	4.07	4.22	3.68	2.75	3.09	3.53	2.60	2.74	1.92
Metalworkg craft wrkrs,exc mecn	2.19	2.17	2.68	.30	.42	.91	.21	.22	.22
Blacksmiths	.04	.03	.01	.00	.00	.00	.00	.00	.00
Boilermakers	.02	.02	.01	.06	.07	.11	.00	.00	.00
Heat treaters, annealers	.05	.05	.07	.00	.00	.00	.00	.00	.00
Forge and hammer operators	.02	.02	.02	.00	.00	.00	.00	.00	.00
Job and die setters, metal	.04	.04	.06	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.73	.86	1.38	.19	.29	.66	.12	.13	.14
Millwrights	.23	.22	.14	.02	.04	.07	.03	.03	.01
Pattern and mclmakers	.05	.04	.08	.00	.00	.00	.00	.00	.00
Rollers and finishers,metal	.03	.04	.08	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.93	.79	.74	.01	.01	.01	.05	.05	.06
Tool and diemakers, apprentices	.07	.06	.08	.01	.02	.06	.01	.01	.01
Mechanics,repairers,installers	1.68	1.96	2.57	4.64	5.09	4.54	5.82	5.87	6.40
Air cond, heating, refrig mech	.08	.10	.11	1.42	1.96	2.04	.01	.00	.00
Aircraft mechanics	.00	.00	.00	.02	.03	.05	.03	.02	.01
Auto body repairers	.02	.02	.02	.00	.00	.00	.38	.32	.28
Auto mechanics and apprentices	.35	.35	.42	1.36	1.10	.61	4.53	4.42	4.76
Data processing mach repairers	.02	.03	.09	.01	.01	.01	.00	.00	.00
Farm implement mechanics	.01	.01	.01	.01	.01	.01	.01	.01	.01
Heavy equip mech, incl diesel	1.00	1.21	1.59	1.35	1.55	1.52	.76	.98	1.23
Household appliance mechanics	.01	.01	.02	.20	.16	.06	.01	.01	.00
Office machine repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Radio, television repairers	.02	.01	.01	.01	.01	.03	.02	.01	.01
Railroad, car shop repairers	.02	.04	.08	.03	.03	.06	.00	.00	.00
Other mechanics and apprentices	.16	.18	.21	.23	.22	.15	.07	.09	.09
Printing trade crafts workers	.08	.06	.00	.02	.02	.00	.03	.02	.00
Compositors and typesetters	.04	.03	.00	.01	.01	.00	.02	.01	.00
Press,plate printers,apprentices	.03	.02	.00	.01	.01	.00	.00	.00	.00
Transport,public util craft wkrs	.08	.11	.21	.07	.08	.10	.04	.04	.02
Elec pwr line instaler,repairer	.01	.01	.01	.01	.01	.01	.01	.01	.01
Locomotive engineers	.03	.03	.01	.00	.00	.00	.01	.01	.00
Locomotive engineers' helpers	.01	.02	.12	.00	.00	.00	.00	.00	.00
Power station operators	.01	.01	.01	.01	.02	.05	.00	.00	.00
Telephone installers,repairers	.03	.04	.05	.04	.04	.03	.03	.02	.01
Telephone line instaln,splicers	.01	.01	.01	.02	.01	.01	.00	.00	.00
Other crafts, kindred workers	3.33	2.62	2.14	1.31	1.30	1.69	4.62	4.16	4.99
Bakers	.00	.00	.00	.01	.02	.06	.00	.00	.00
Cabinetmakers	.01	.01	.01	.00	.00	.00	.01	.01	.00
Crane,derrick,hoist operator	2.77	2.09	1.75	.07	.08	.17	4.28	3.81	4.72
Decorators, window dressers	.02	.03	.01	.00	.00	.00	.01	.01	.02
Glaziers	.02	.02	.01	.00	.00	.00	.01	.01	.01
Inspectors, other	.25	.24	.13	.12	.15	.19	.13	.13	.05
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Opticians,lens grinder,polisher	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.11	.09	.05	1.07	1.03	1.28	.05	.03	.01
Tailors	.00	.00	.00	.00	.00	.00	.09	.10	.07
Other crafts workers	.13	.13	.16	.03	.02	.01	.04	.06	.11
Operatives	18.73	18.64	19.91	28.38	26.69	29.91	29.09	31.62	33.78
Operatives,except transport	11.70	11.99	12.73	3.61	3.25	2.62	18.82	21.57	24.53

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metals, minerals, other			Petroleum products			Scrap and waste material		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Semiskilled metalworking	3.30	3.29	3.70	.21	.26	.41	3.82	4.15	4.32
Drill press operatives	.06	.05	.04	.00	.00	.00	.00	.00	.00
Furnace tendrs, smeltrs, pourers	.15	.14	.13	.00	.00	.00	.18	.20	.21
Grinding machine operatives	.15	.13	.13	.00	.00	.00	.03	.03	.03
Heaters, metal	.01	.01	.01	.00	.00	.00	.03	.02	.01
Lathe, milling mach operatives	.21	.16	.20	.01	.01	.01	.03	.03	.03
Metal platers	.04	.05	.07	.00	.00	.00	.01	.01	.01
Other precisicn mach operators	.03	.03	.06	.01	.01	.01	.01	.01	.01
Punch, stamping press operatives	.20	.19	.26	.00	.00	.00	.02	.02	.01
Solderers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	2.47	2.54	2.79	.20	.24	.39	3.51	3.83	4.02
Semiskilled packing, inspecting	.50	.40	.23	.12	.14	.21	1.12	.96	.49
Packer, wrapper, exc meat, prodce	.50	.40	.23	.12	.14	.21	1.12	.96	.49
Other operatives, exc transport	7.90	8.29	8.81	3.27	2.86	2.00	13.88	16.46	19.72
Asbestos, insulation workers	.01	.01	.02	.01	.01	.01	.00	.00	.00
Assemblers	.28	.32	.43	.04	.05	.08	.06	.09	.17
Blasters	.03	.02	.01	.00	.00	.00	.00	.00	.00
Bottling, canning operatives	.02	.04	.08	.04	.04	.05	.00	.00	.00
Surveyors' helpers	.00	.00	.00	.01	.02	.05	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Cutting operatives, other	2.63	2.78	3.23	.01	.01	.01	1.60	1.90	2.40
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.06	.08	.09
Drillers, earth	.06	.06	.07	.03	.02	.01	.02	.02	.01
Filer, polisher, sander, buffer	.08	.09	.16	.01	.01	.00	.05	.07	.12
Garage wrkr, gas station atten	.00	.00	.00	.93	.56	.28	.05	.05	.07
Laundry, dry cleang oprs, other	.00	.00	.00	.01	.01	.01	.03	.04	.10
Meat cutters, butchers, exc mfg	.01	.01	.01	.01	.01	.04	.00	.00	.00
Mixing operatives	.03	.04	.08	.10	.08	.04	.00	.00	.00
Oilers, greasers, exc automobiles	.10	.09	.06	.09	.09	.11	.04	.03	.01
Painters, mfg articles	.08	.07	.08	.04	.04	.06	.04	.05	.14
Photographic process workers	.01	.01	.01	.02	.02	.05	.00	.00	.00
Riveters and fasteners	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sailors and deckhands	.02	.01	.00	.12	.10	.11	.01	.00	.00
Sawyers	.82	.69	.32	.00	.00	.00	.04	.03	.02
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Furnace tendr, stokr, exc metal	.09	.04	.00	.11	.08	.08	.11	.09	.09
Winding operatives, other	.06	.07	.09	.00	.00	.00	.01	.01	.01
Miscellaneous machine operatives	2.05	2.12	1.89	.66	.65	.42	1.78	2.04	1.98
Other operatives, exc transport	1.54	1.85	2.28	1.05	1.05	.62	9.96	11.93	14.50
Transport equipment operatives	7.03	6.65	7.18	24.77	23.45	27.29	10.27	10.05	9.24
Boat operators	.00	.00	.00	.02	.01	.01	.01	.01	.00
Delivery and route workers	1.46	1.20	1.00	8.99	8.33	10.64	.49	.44	.40
Fork lift, tow motor operatives	.65	.81	1.07	.22	.25	.22	.81	1.02	1.13
Rail vehicle operators, other	.04	.03	.01	.01	.02	.06	.00	.00	.00
Railroad brake operators	.00	.00	.00	.00	.00	.00	.01	.02	.03
Railroad switch operators	.07	.07	.08	.00	.00	.00	.10	.11	.12
Taxicab drivers, chauffeurs	.09	.05	.00	.11	.09	.03	.13	.10	.03
Truck drivers	4.72	4.49	5.02	15.40	14.73	16.33	8.72	8.35	7.53
Service workers	1.31	1.19	.95	1.08	.86	.45	1.02	.99	.68
Cleaning service workers	.92	.86	.73	.76	.59	.21	.54	.55	.43
Bldg interior cleaners, other	.15	.16	.17	.11	.08	.03	.15	.17	.16
Janitors and sextons	.77	.70	.56	.65	.50	.19	.39	.38	.27
Food service workers	.07	.05	.03	.11	.09	.12	.05	.04	.03
Cooks, exc private households	.06	.04	.02	.06	.05	.06	.03	.03	.01
Dishwashers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Food counter, fountain workers	.00	.00	.00	.01	.01	.05	.01	.00	.00
Waiters	.01	.01	.01	.02	.01	.01	.01	.01	.01
Other food serv wkrs, exc privt	.00	.00	.00	.01	.01	.01	.00	.00	.00
Health service workers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.02	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Metals, minerals, other			Petroleum products			Scrap and waste material		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.03	.03	.02	.06	.06	.08	.02	.02	.01
Attendants, personal serv, other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Elevator operators	.01	.01	.01	.03	.04	.06	.02	.02	.01
Housekeepers, exc private homes	.02	.01	.01	.02	.02	.01	.00	.00	.00
Protective service workers	.28	.25	.16	.15	.12	.04	.41	.38	.21
Firefighters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Guards	.27	.23	.14	.15	.12	.04	.40	.37	.20
Police and detectives	.01	.01	.01	.01	.00	.00	.00	.00	.00
Laborers, except farm	9.38	8.98	9.12	3.04	2.68	1.78	25.00	22.35	24.25
Carpenter helpers	.03	.02	.01	.00	.00	.00	.02	.02	.01
Constr labr, exc carpenter help	.59	.60	.81	.15	.12	.06	.11	.11	.10
Freight and material handlers	3.18	3.23	3.85	1.31	1.17	.79	4.53	5.29	7.47
Garbage collectors	.00	.00	.00	.00	.00	.00	.07	.07	.13
Gardenrs, groundkeepers, exc farm	.03	.04	.07	.08	.07	.03	.09	.08	.08
Longshore workers, stevedores	.02	.02	.01	.04	.04	.09	.02	.02	.01
Stock handlers	1.45	1.59	1.59	.18	.16	.06	.12	.16	.19
Teamsters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Vehicle washers, equip cleaners	.06	.07	.07	.17	.15	.07	.17	.20	.20
Warehouse laborers, other	2.25	1.82	.93	.93	.83	.60	.17	.16	.09
Other laborers	1.77	1.60	1.79	.18	.13	.07	19.70	16.25	15.97

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Alcoholic beverages			Paper and paper products			Lumber, constructn materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.86	2.15	1.80	3.15	3.52	2.97	2.67	2.77	2.59
Engineers, technical	.00	.00	.00	.23	.21	.24	.50	.39	.35
Chemical	.00	.00	.00	.01	.01	.01	.02	.01	.01
Civil	.00	.00	.00	.00	.00	.00	.10	.04	.00
Industrial	.00	.00	.00	.05	.06	.06	.06	.07	.08
Mechanical	.00	.00	.00	.06	.05	.06	.06	.05	.04
Metallurgical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Sales	.00	.00	.00	.06	.04	.04	.20	.15	.13
Other engineers	.00	.00	.00	.06	.05	.07	.06	.06	.08
Life and physical scientists	.03	.04	.06	.05	.05	.06	.04	.04	.05
Chemists	.03	.04	.06	.05	.05	.06	.04	.04	.05
Mathematical specialists	.03	.03	.05	.01	.00	.00	.01	.01	.01
Statisticians	.03	.03	.05	.01	.00	.00	.01	.01	.01
Engineering, science technicians	.05	.06	.09	.17	.18	.26	.42	.42	.57
Agricultural, biolgcl, exc health	.01	.01	.01	.00	.00	.00	.00	.00	.00
Chemical technicians	.01	.01	.01	.02	.02	.02	.01	.01	.01
Drafters	.01	.01	.01	.07	.05	.05	.30	.27	.33
Industrial engineering	.02	.03	.06	.00	.00	.00	.03	.05	.08
Mechanical engineering	.00	.00	.00	.00	.00	.00	.01	.01	.01
Surveyors	.01	.01	.01	.00	.00	.00	.02	.01	.01
Other engineering, science teca	.00	.00	.00	.09	.11	.19	.06	.07	.12
Technicians, except health	.01	.02	.01	.04	.04	.06	.05	.06	.06
Airplane pilots	.01	.02	.01	.00	.00	.00	.02	.02	.02
Other technicians except health	.00	.00	.00	.04	.04	.06	.02	.03	.04
Computer specialists	.15	.19	.17	.24	.33	.31	.08	.10	.08
Computer programers	.12	.14	.13	.11	.13	.13	.06	.06	.05
Computer systems analysts	.03	.05	.04	.10	.14	.13	.03	.03	.03
Other computer specialists	.00	.00	.00	.03	.06	.05	.00	.00	.00
Social scientists	.08	.11	.09	.15	.23	.21	.04	.09	.13
Economists	.08	.11	.09	.15	.23	.21	.04	.09	.13
Teachers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Adult education	.00	.00	.00	.01	.01	.01	.00	.00	.00
Writers, artists, entertainers	.44	.51	.37	.73	.86	.71	.17	.20	.16
Designers	.01	.01	.01	.26	.28	.20	.07	.07	.04
Editors and reporters	.02	.02	.01	.02	.02	.01	.01	.01	.01
Painters and sculptors	.03	.02	.01	.16	.22	.23	.01	.01	.01
Photographers	.00	.00	.00	.03	.02	.01	.00	.00	.00
Public relations specialists	.36	.45	.33	.24	.30	.25	.08	.11	.10
Radio and tv announcers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other writers, artists, entertain	.01	.01	.01	.03	.03	.03	.00	.00	.00
Other professional and technical	1.07	1.19	.95	1.53	1.60	1.12	1.36	1.47	1.19
Accountants	.88	.98	.82	.99	1.05	.78	.99	1.10	.92
Architects	.00	.00	.00	.00	.00	.00	.05	.04	.04
Foresters and conservationists	.00	.00	.00	.02	.01	.01	.09	.08	.04
Lawyers	.02	.02	.01	.03	.04	.01	.02	.03	.01
Operations and systems research	.02	.03	.02	.08	.11	.10	.02	.04	.04
Personnel, labor relations wkrs	.16	.16	.10	.32	.31	.17	.16	.17	.12
Other research workers	.00	.00	.00	.10	.08	.06	.03	.03	.03
Managers, officials, proprietors	16.45	18.00	18.67	16.22	17.84	18.92	17.11	18.33	16.54
Buyers, sales, loan managers	4.08	4.22	4.98	5.24	5.04	5.61	3.87	4.14	6.02
Bank, financial managers	.20	.20	.17	.18	.18	.20	.17	.19	.22
Credit managers	.26	.15	.13	.48	.27	.21	.46	.27	.26
Buyers, wholesale, retail trade	.30	.27	.26	1.74	1.57	1.53	1.21	1.22	1.55
Sales manager, exc retail trade	3.32	3.60	4.42	2.85	3.02	3.68	2.03	2.47	3.99
Other managers, officials, proprt	12.38	13.78	13.69	10.97	12.81	13.31	13.24	14.19	10.52
Mgrs, superintendents, building	.00	.00	.00	.00	.00	.00	.02	.02	.05
Office managers, other	1.37	1.40	1.41	1.50	1.53	1.68	1.43	1.55	1.97
Officers, pilots, pursers, ship	.01	.01	.01	.00	.00	.00	.02	.02	.04
Restaurant, cafe, bar, managers	.00	.00	.00	.01	.01	.01	.02	.02	.01
Other managers, administrators	11.00	12.37	12.27	9.46	11.27	11.62	11.75	12.57	8.45

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Alcoholic beverages			Paper and paper products			Lumber, constructn materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	20.11	21.80	23.22	22.11	22.76	21.31	12.85	14.17	16.52
Advertising agents,sales worker	.22	.29	.25	.05	.07	.09	.01	.01	.01
Other sales workers	19.88	21.52	22.97	22.05	22.68	21.22	12.84	14.16	16.51
Clerical workers	18.17	17.88	18.46	29.06	27.59	29.11	18.43	17.99	19.11
Stenographrs,typists,secretaries	4.34	4.31	4.95	8.77	8.37	9.35	6.11	5.91	6.48
Legal secretaries	.01	.01	.01	.01	.01	.01	.01	.01	.02
Other secretaries	3.48	3.60	4.35	6.61	6.63	7.86	5.03	5.05	5.73
Stenographers	.04	.02	.01	.19	.10	.03	.13	.05	.00
Typists	.80	.68	.58	1.96	1.63	1.44	.94	.80	.73
Office machine operators	1.50	1.54	1.31	1.63	1.52	1.45	.59	.61	.57
Bookkeeping and billing	.18	.11	.16	.44	.25	.31	.15	.09	.13
Calculating	.03	.03	.08	.16	.13	.16	.03	.03	.04
Computer and peripheral equip	.27	.58	.42	.19	.40	.32	.11	.25	.19
Duplicating	.01	.01	.01	.04	.03	.06	.01	.01	.01
Keypunch	.94	.79	.63	.57	.47	.40	.24	.20	.16
Tabulating	.06	.01	.00	.01	.00	.00	.00	.00	.00
Other office machine operators	.01	.01	.01	.23	.23	.20	.04	.04	.03
Other clerical workers	12.33	12.04	12.20	18.66	17.70	18.31	11.73	11.47	12.07
Billing clerks	.35	.38	.46	1.04	1.10	1.45	.56	.62	.89
Bookkeepers	5.73	5.41	4.97	4.73	4.49	4.34	4.83	4.59	4.36
Cashiers	.55	.59	.69	.20	.22	.26	.11	.12	.13
Clerical supervisors, other	.18	.22	.28	.27	.30	.33	.17	.19	.21
Collectors, bill and account	.01	.01	.01	.01	.01	.01	.03	.03	.06
Counter clerks,exc food	.84	.87	1.00	1.61	1.67	2.02	.53	.58	.77
Dispatchers,starters,vehicle	.19	.20	.21	.12	.14	.22	.24	.27	.40
Enumerators and interviewers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Estimators,investigators,other	.17	.21	.23	.34	.40	.38	.21	.27	.27
Expeditors,production controls	.05	.06	.11	.12	.14	.23	.17	.20	.30
File clerks	.25	.21	.22	.58	.48	.47	.19	.16	.17
Mail handlers,exc post office	.11	.12	.16	.28	.27	.27	.10	.10	.11
Messengers and office helpers	.05	.05	.04	.07	.07	.04	.03	.02	.01
Payroll,timekeeping clerks	.18	.19	.17	.16	.16	.11	.19	.21	.20
Receptionists	.43	.42	.38	.53	.51	.52	.37	.36	.37
Shipping and receiving clerks	.88	.78	.73	3.32	2.77	2.14	1.28	1.12	1.02
Statistical clerks	.32	.34	.27	.40	.43	.40	.43	.50	.60
Stock clerks and store keepers	.84	.78	.87	2.09	1.91	2.22	.77	.73	.92
Telephone operators	.22	.14	.08	.49	.28	.14	.25	.15	.09
Weighers	.02	.03	.05	.04	.04	.07	.08	.09	.12
Misc clerical workers	.98	1.05	1.32	2.27	2.31	2.70	1.21	1.15	1.07
Crafts and kindred workers	3.83	4.13	3.76	6.30	6.13	5.94	14.01	13.80	13.60
Construction crafts workers	.27	.24	.19	.33	.29	.24	3.98	3.58	3.29
Carpenters and apprentices	.09	.08	.05	.09	.08	.06	2.21	1.89	.85
Brick,stonemasons, apprentices	.01	.01	.01	.00	.00	.00	.15	.13	.12
Bulldozer operators	.00	.00	.00	.02	.02	.03	.26	.30	.65
Cement and concrete finishers	.01	.00	.00	.01	.01	.01	.05	.04	.02
Electricians and apprentices	.04	.03	.01	.13	.11	.05	.17	.17	.16
Excavating,grading mach operatr	.00	.00	.00	.00	.00	.00	.33	.32	.51
Floor layers, exc tile setters	.00	.00	.00	.01	.01	.01	.07	.05	.06
Painters and apprentices	.07	.08	.10	.05	.06	.07	.21	.22	.29
Plasterers and apprentices	.00	.00	.00	.00	.00	.00	.02	.01	.01
Plumbers,pipefitters,aprentices	.04	.03	.02	.02	.02	.01	.05	.04	.02
Roofers and slaters	.00	.00	.00	.00	.00	.00	.04	.04	.02
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.18	.15	.24
Tile setters	.01	.01	.00	.00	.00	.00	.25	.22	.35
Blue collar worker supervisors	2.11	2.15	1.76	2.57	2.57	2.10	3.70	3.90	3.75
Metalworkg craft wrkrs,exc mech	.04	.04	.03	.34	.33	.39	.77	.72	.58
Blacksmiths	.00	.00	.00	.00	.00	.00	.02	.01	.00
Boilermakers	.00	.00	.00	.01	.01	.01	.10	.08	.05
Machinists and apprentices	.02	.02	.01	.20	.22	.32	.26	.25	.22
Millwrights	.01	.01	.01	.04	.04	.02	.28	.29	.25
Pattern and moldmakers	.00	.00	.00	.04	.03	.02	.00	.00	.00
Sheetmetal workers, apprentices	.01	.01	.01	.00	.00	.00	.09	.07	.04
Tool and diemakers, apprentices	.00	.00	.00	.04	.03	.02	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Alcoholic beverages			Paper and paper products			Lumber, constructn materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics,repairers,installers	.69	.76	1.00	1.77	1.68	2.27	1.48	1.71	2.46
Air cond, heating, refrig meca	.02	.02	.03	.01	.01	.01	.05	.07	.09
Aircraft mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.38	.37	.45	.11	.09	.07	.56	.54	.66
Data processing mach repairers	.01	.01	.01	.01	.02	.03	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.02	.03	.09	.03	.04	.06
Heavy equip mech, incl diesel	.20	.26	.41	.70	.87	1.28	.66	.85	1.36
Household appliance mechanics	.02	.01	.00	.00	.00	.00	.09	.11	.16
Office machine repairers	.00	.00	.00	.80	.56	.73	.01	.01	.01
Radio, television repairers	.00	.00	.00	.05	.03	.00	.00	.00	.00
Other mechanics and apprentices	.06	.08	.10	.07	.07	.06	.08	.09	.11
Printing trade crafts workers	.04	.03	.00	1.02	.99	.68	.11	.09	.08
Bookbinders	.01	.01	.00	.05	.03	.02	.01	.01	.01
Compositors and typesetters	.01	.01	.00	.51	.45	.22	.05	.03	.01
Engravers exc photoengravers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Photoengravers, lithographers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Press,plate printers,aprentices	.02	.01	.00	.44	.48	.43	.05	.05	.06
Transport,public util craft wkrs	.04	.03	.01	.03	.02	.02	.02	.03	.02
Elec pwr line instaler,repairer	.03	.02	.01	.02	.01	.01	.01	.00	.00
Locomotive engineers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers,repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other crafts, kindred workers	.65	.89	.76	.24	.24	.23	3.95	3.77	3.44
Cabinetmakers	.00	.00	.00	.02	.02	.01	.28	.22	.07
Carpet installers	.00	.00	.00	.00	.00	.00	.02	.04	.06
Crane,derrick,hoist operator	.01	.01	.01	.02	.02	.02	.37	.28	.26
Decorators, window dressers	.48	.72	.58	.05	.05	.01	.01	.01	.02
Furniture and wood finishers	.00	.00	.00	.01	.01	.01	.02	.03	.06
Glaziers	.01	.01	.01	.01	.01	.01	2.09	2.34	2.60
Inspectors, log and lumber	.00	.00	.00	.01	.01	.01	.73	.49	.10
Inspectors, other	.06	.06	.03	.05	.05	.04	.07	.07	.04
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Stationary engineers	.06	.03	.01	.04	.02	.01	.10	.05	.00
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.11	.09	.04
Other crafts workers	.03	.05	.12	.05	.06	.12	.13	.12	.18
Operatives	30.30	27.15	25.78	15.37	14.55	14.42	23.27	21.66	19.81
Operatives,except transport	1.59	1.70	2.08	7.30	7.33	7.87	8.38	8.81	10.10
Semiskilled metalworking	.02	.02	.01	.07	.07	.08	.85	.84	1.02
Drill press operatives	.00	.00	.00	.00	.00	.00	.02	.02	.04
Grinding machine operatives	.00	.00	.00	.00	.00	.00	.02	.02	.04
Heaters, metal	.00	.00	.00	.00	.00	.00	.01	.01	.01
Lathe,milling mach operatives	.00	.00	.00	.01	.01	.01	.11	.08	.08
Other precisicn mach operators	.00	.00	.00	.00	.00	.00	.02	.02	.05
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.06	.06	.06
Welders and flamecutters	.02	.02	.01	.07	.07	.07	.61	.63	.73
Semiskilled packing, inspecting	.54	.50	.46	2.15	1.84	1.41	.40	.33	.18
Packer,wrapper,exc meat,prodc	.54	.50	.46	2.15	1.84	1.41	.40	.33	.18

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Alcoholic beverages			Paper and paper products			Lumber, constructn materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	1.02	1.18	1.62	5.07	5.42	6.39	7.14	7.64	8.90
Asbestos,insulation workers	.00	.00	.00	.01	.02	.01	.18	.26	.22
Assemblers	.05	.08	.16	.28	.32	.44	.60	.69	.96
Blasters	.00	.00	.00	.00	.00	.00	.04	.04	.07
Bottling,canning operatives	.45	.54	.83	.00	.00	.00	.01	.01	.01
Cutting operatives, other	.00	.00	.00	1.88	1.96	2.34	1.09	1.19	1.52
Drillers, earth	.00	.00	.00	.00	.00	.00	.03	.03	.06
Dry wall installers, lathers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Filer,polisher,sander,buffer	.01	.01	.00	.03	.02	.01	.24	.26	.36
Garage wrkr,gas station atten	.01	.01	.01	.00	.00	.00	.02	.01	.02
Mixing operatives	.01	.01	.01	.03	.04	.09	.08	.09	.12
Oilers,greasers,exc automobiles	.00	.00	.00	.02	.02	.01	.10	.08	.04
Painters, mfg articles	.00	.00	.00	.07	.07	.08	.06	.05	.07
Photographic process workers	.00	.00	.00	.02	.02	.02	.02	.02	.02
Riveters and fasteners	.01	.01	.00	.03	.02	.01	.03	.04	.06
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.02	.01	.00
Sawyers	.00	.00	.00	.02	.02	.01	1.54	1.32	.73
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.03	.03	.07
Furnace tendr,stokr,exc metal	.02	.01	.01	.09	.04	.00	.17	.09	.03
Winding operatives, other	.00	.00	.00	.06	.06	.08	.02	.03	.07
Miscellaneous machine operatves	.30	.34	.41	1.68	1.80	1.97	1.96	2.26	2.98
Other operatives,exc transport	.15	.17	.20	.86	1.02	1.33	.90	1.11	1.48
Transport equipment operatives	28.71	25.46	23.69	8.08	7.22	6.55	14.89	12.86	9.71
Bus drivers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Delivery and route workers	17.10	14.41	12.73	2.85	2.33	1.95	2.88	2.46	2.36
Fork lift,tow motor operatives	1.14	1.29	1.23	.97	1.15	1.43	2.46	3.06	4.02
Taxicab drivers, chauffeurs	.18	.16	.06	.09	.07	.04	.11	.07	.01
Truck drivers	10.29	9.60	9.67	4.17	3.67	3.14	9.41	7.23	3.32
Service workers	.80	.75	.60	.83	.74	.56	1.19	1.12	.94
Cleaning service workers	.61	.57	.44	.69	.63	.50	.79	.75	.67
Bldg interior cleaners, other	.16	.16	.14	.17	.17	.17	.22	.22	.23
Janitors and sextons	.45	.41	.30	.52	.46	.33	.57	.52	.44
Food service workers	.05	.04	.03	.04	.03	.03	.02	.02	.01
Bartenders	.01	.01	.01	.01	.01	.01	.00	.00	.00
Cooks,exc private households	.02	.02	.01	.03	.02	.01	.01	.01	.01
Waiters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Personal service workers	.05	.04	.04	.05	.04	.01	.02	.02	.02
Attendants, personal serv, other	.02	.02	.02	.00	.00	.00	.00	.00	.00
Elevator operators	.02	.02	.01	.05	.04	.01	.01	.01	.01
Housekeepers, exc private homes	.01	.01	.01	.00	.00	.00	.01	.01	.01
Protective service workers	.10	.10	.09	.05	.04	.02	.37	.34	.24
Guards	.10	.10	.09	.04	.03	.01	.36	.33	.23
Laborers, except farm	8.48	8.14	7.72	6.97	6.87	6.77	10.47	10.17	10.89
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.01	.01	.00
Carpenter helpers	.02	.01	.01	.03	.02	.01	.30	.24	.23
Constr labr,exc carpenter helpr	.02	.02	.04	.01	.01	.02	.54	.52	.57
Freight and material handlers	4.76	4.76	5.24	1.57	1.59	2.03	5.75	5.86	7.18
Gardenrs,groundkeepers,exc farm	.04	.05	.10	.02	.03	.08	.05	.07	.11
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.02	.01	.00
Timbercutting, logging workers	.00	.00	.00	.02	.02	.03	.25	.25	.28
Stock handlers	.92	1.00	.90	3.03	3.28	3.31	.91	.98	.90
Teamsters	.01	.01	.01	.01	.01	.01	.02	.01	.01
Vehicle washers,equip cleaners	.07	.08	.10	.03	.03	.02	.06	.07	.09
Warehouse laborers, other	2.50	2.08	1.15	2.07	1.72	1.06	1.77	1.46	.82
Other laborers	.15	.13	.17	.19	.17	.20	.80	.71	.70

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other wholesale trade			Retail trade			Building materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	3.73	4.11	3.69	2.03	2.26	2.18	1.09	1.20	1.02
Engineers, technical	.43	.34	.27	.04	.04	.04	.13	.10	.06
Chemical	.02	.01	.01	.00	.00	.00	.00	.00	.00
Civil	.02	.01	.01	.00	.00	.00	.00	.00	.00
Electrical	.04	.04	.03	.01	.00	.00	.00	.00	.00
Industrial	.06	.06	.07	.01	.01	.01	.01	.01	.01
Mechanical	.04	.03	.01	.01	.01	.01	.03	.03	.01
Sales	.19	.13	.08	.01	.01	.00	.07	.05	.03
Other engineers	.07	.06	.06	.01	.01	.01	.02	.01	.01
Life and physical scientists	.19	.21	.21	.00	.01	.00	.00	.00	.00
Agricultural	.12	.14	.11	.00	.00	.00	.00	.00	.00
Biological	.01	.02	.01	.00	.00	.00	.00	.00	.00
Chemists	.05	.05	.07	.00	.00	.00	.00	.00	.00
Geologists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.01	.01	.01	.01	.00	.01	.00	.00	.00
Statisticians	.01	.01	.01	.01	.00	.01	.00	.00	.00
Engineering, science technicians	.30	.32	.38	.03	.03	.04	.19	.20	.20
Agricultural, biologicl, exc health	.05	.06	.05	.00	.00	.00	.00	.00	.00
Chemical technicians	.02	.02	.02	.00	.00	.00	.01	.02	.01
Drafters	.08	.07	.07	.02	.02	.02	.14	.14	.16
Electrical and electronic	.05	.06	.07	.01	.01	.01	.01	.01	.01
Industrial engineering	.01	.02	.03	.00	.00	.00	.00	.00	.00
Other engineering, science techn	.09	.10	.14	.01	.01	.01	.03	.03	.02
Medical workers, exc technicians	.02	.02	.04	.84	.77	.79	.00	.00	.00
Dietitians	.01	.00	.00	.01	.01	.01	.00	.00	.00
Optometrists	.00	.00	.00	.01	.02	.02	.00	.00	.00
Pharmacists	.01	.01	.02	.80	.73	.74	.00	.00	.00
Registered nurses	.01	.01	.02	.01	.01	.01	.00	.00	.00
Technicians, except health	.09	.13	.16	.01	.02	.02	.02	.03	.03
Airplane pilots	.02	.02	.02	.00	.00	.00	.00	.01	.01
Radio operators	.01	.01	.01	.00	.00	.00	.01	.01	.00
Other technicians except health	.06	.09	.13	.01	.01	.01	.01	.01	.02
Computer specialists	.22	.27	.25	.05	.06	.07	.03	.04	.04
Computer programers	.16	.19	.18	.03	.04	.04	.03	.03	.03
Computer systems analysts	.06	.08	.08	.01	.02	.03	.01	.01	.01
Social scientists	.11	.17	.16	.01	.02	.02	.01	.01	.01
Economists	.11	.17	.16	.01	.02	.02	.01	.01	.01
Teachers	.01	.01	.02	.11	.08	.04	.01	.01	.01
Adult education	.01	.01	.02	.01	.01	.01	.01	.01	.01
Other teachers	.00	.00	.00	.10	.07	.03	.00	.00	.00
Writers, artists, entertainers	1.05	1.22	1.12	.40	.61	.61	.10	.12	.10
Athletes and kindred workers	.04	.04	.05	.01	.02	.02	.02	.02	.02
Dancers	.00	.00	.00	.02	.03	.04	.00	.00	.00
Designers	.41	.45	.37	.10	.11	.11	.04	.04	.02
Editors and reporters	.11	.12	.11	.03	.03	.04	.01	.01	.03
Musicians and composers	.02	.03	.06	.11	.20	.20	.00	.00	.00
Painters and sculptors	.14	.20	.24	.06	.09	.09	.01	.01	.01
Photographers	.07	.05	.04	.01	.01	.01	.00	.00	.00
Public relations specialists	.23	.28	.23	.03	.04	.05	.03	.04	.04
Other writers, artists, entertain	.03	.04	.03	.03	.07	.06	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other wholesale trade			Retail trade			Building materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.33	1.42	1.07	.52	.62	.54	.61	.70	.58
Accountants	.91	.98	.75	.30	.37	.35	.46	.54	.48
Architects	.01	.01	.02	.00	.00	.00	.01	.01	.00
Archivists and curators	.01	.01	.02	.00	.01	.01	.00	.00	.00
Foresters and conservationists	.04	.03	.01	.00	.00	.00	.02	.02	.02
Home management advisors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Lawyers	.02	.03	.01	.01	.02	.03	.00	.00	.00
Librarians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.04	.06	.06	.01	.01	.01	.00	.00	.00
Personnel, labor relations wkrs	.22	.22	.13	.18	.20	.14	.11	.12	.09
Other research workers	.06	.05	.04	.01	.01	.01	.00	.00	.00
Vocation, education counselors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	19.35	21.03	21.70	17.31	17.75	17.66	20.89	22.06	20.89
Buyers, sales, loan managers	4.38	4.29	5.02	3.27	3.12	3.54	3.28	2.63	1.45
Bank, financial managers	.20	.20	.18	.06	.06	.05	.06	.06	.03
Credit managers	.31	.18	.15	.19	.11	.10	.30	.19	.14
Buyers, wholesale, retail trade	1.45	1.30	1.36	.82	.75	.75	.93	.71	.37
Sales manager, retail trade	.00	.00	.00	2.21	2.20	2.64	1.99	1.68	.92
Sales manager, exc retail trade	2.42	2.61	3.33	.00	.00	.00	.00	.00	.00
Other managers, officials, proprt	14.97	16.75	16.68	14.03	14.63	14.12	17.62	19.44	19.43
Mgrs, superintendents, building	.00	.00	.00	.00	.01	.01	.01	.02	.02
Office managers, other	1.38	1.44	1.70	.28	.30	.33	.66	.68	.56
Officers, pilots, pursers, saip	.01	.01	.02	.00	.00	.00	.01	.00	.00
Restaurant, cafe, bar, managers	.03	.02	.01	3.37	3.49	3.03	.04	.02	.01
Other managers, administrators	13.55	15.27	14.95	10.38	10.83	10.75	16.90	18.72	18.85
Sales workers	17.31	17.27	15.53	23.14	19.80	20.32	25.43	24.76	33.15
Advertising agents, sales worker	.09	.11	.08	.02	.03	.03	.01	.02	.02
Auctioneers	.01	.01	.03	.01	.01	.01	.00	.00	.00
Demonstrators	.00	.00	.00	.43	.38	.32	.00	.00	.00
Hucksters and peddlers	.00	.00	.00	1.65	1.26	1.02	.00	.00	.00
Newspaper carriers and vendors	.00	.00	.00	.13	.18	.10	.00	.00	.00
Other sales workers	17.22	17.16	15.42	20.90	17.95	18.85	25.42	24.74	33.12
Clerical workers	27.82	26.55	27.05	15.68	16.57	18.09	15.39	14.84	13.87
Stenographers, typists, secretaries	8.45	8.07	8.78	1.62	1.63	1.77	3.15	3.21	3.42
Legal secretaries	.02	.01	.02	.00	.00	.00	.00	.00	.00
Other secretaries	6.45	6.41	7.33	1.20	1.27	1.41	2.73	2.85	3.15
Stenographers	.12	.07	.03	.02	.01	.01	.04	.02	.01
Typists	1.87	1.57	1.40	.40	.35	.35	.39	.34	.27
Office machine operators	1.38	1.37	1.15	.37	.37	.34	.22	.19	.10
Bookkeeping and billing	.30	.17	.21	.06	.03	.04	.07	.03	.01
Calculating	.09	.07	.09	.07	.06	.08	.02	.01	.01
Computer and peripheral equip	.25	.50	.33	.06	.12	.11	.03	.08	.05
Duplicating	.03	.03	.03	.01	.00	.01	.00	.00	.00
Keypunch	.59	.49	.41	.14	.11	.07	.09	.06	.02
Tabulating	.02	.01	.00	.00	.00	.00	.00	.00	.00
Other office machine operators	.11	.11	.09	.04	.05	.04	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other wholesale trade			Retail trade			Building materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	17.99	17.12	17.12	13.69	14.57	15.97	12.02	11.44	10.35
Billing clerks	.98	1.04	1.34	.14	.16	.23	.18	.19	.19
Bookkeepers	5.17	4.72	3.97	2.95	2.81	2.42	7.32	6.87	6.07
Cashiers	.31	.33	.39	6.17	7.12	8.44	1.15	1.28	1.90
Clerical supervisors, other	.24	.28	.33	.10	.12	.14	.05	.06	.05
Collectors, bill and account	.05	.05	.06	.08	.08	.09	.05	.04	.02
Counter clerks,exc food	1.06	1.08	1.19	.34	.38	.49	.22	.22	.17
Dispatchers,starters,vehicle	.12	.13	.19	.05	.05	.05	.14	.15	.11
Estimators,investigators,other	.46	.54	.47	.31	.37	.31	.14	.15	.06
Expeditors,production controls	.19	.22	.32	.04	.05	.07	.06	.06	.05
File clerks	.54	.43	.37	.17	.14	.12	.13	.12	.12
Library attendants, assistants	.03	.03	.03	.00	.00	.00	.00	.00	.00
Mail handlers,exc post office	.36	.33	.28	.10	.11	.12	.07	.06	.04
Messengers and office helpers	.10	.08	.04	.04	.03	.02	.04	.03	.02
Payroll,timekeeping clerks	.14	.14	.10	.11	.13	.14	.06	.07	.06
Receptionists	.55	.50	.40	.15	.15	.14	.15	.12	.04
Shipping and receiving clerks	3.00	2.61	2.32	.45	.43	.50	.53	.51	.50
Statistical clerks	.37	.39	.32	.13	.16	.19	.21	.23	.14
Stock clerks and store keepers	1.74	1.56	1.64	1.00	.91	.92	.77	.55	.18
Telephone operators	.25	.16	.10	.16	.11	.10	.10	.07	.05
Weighers	.05	.06	.09	.03	.03	.04	.03	.03	.02
Misc clerical workers	2.29	2.45	3.19	1.17	1.23	1.45	.62	.62	.59
Crafts and kindred workers	7.78	7.97	8.69	8.45	8.25	8.20	20.18	20.95	19.84
Construction crafts workers	.75	.71	.88	.62	.58	.46	6.05	6.15	5.41
Carpenters and apprentices	.26	.25	.19	.26	.27	.19	2.67	3.06	2.70
Brick,stonemasons, apprentices	.00	.00	.00	.01	.01	.01	.08	.06	.01
Bulldozer operators	.07	.09	.21	.01	.01	.02	.10	.12	.24
Cement and concrete finishers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Electricians and apprentices	.08	.06	.03	.06	.06	.05	.31	.34	.32
Excavating,grading mach operatr	.03	.03	.07	.01	.01	.01	.15	.14	.12
Floor layers, exc tile setters	.10	.07	.08	.04	.02	.01	.05	.03	.01
Painters and apprentices	.10	.11	.15	.08	.08	.07	.60	.48	.15
Paperhangers	.01	.02	.03	.00	.00	.00	.03	.03	.01
Plasterers and apprentices	.00	.00	.00	.00	.00	.00	.02	.01	.01
Plumbers,pipefitters,apprentices	.03	.03	.01	.10	.09	.09	1.59	1.59	1.73
Roofers and slaters	.00	.00	.00	.00	.00	.00	.05	.05	.02
Structural metal craft workers	.01	.00	.00	.00	.00	.00	.01	.01	.01
Tile setters	.07	.06	.11	.04	.03	.02	.35	.19	.04
Blue collar worker supervisors	2.29	2.26	1.71	.66	.72	.69	1.82	2.10	2.06
Metalworkg craft wrkrs,exc meca	.22	.22	.25	.07	.07	.07	.60	.61	.67
Boilermakers	.01	.01	.03	.00	.00	.00	.01	.01	.01
Machinists and apprentices	.13	.14	.18	.03	.04	.04	.11	.12	.12
Millwrights	.01	.01	.01	.01	.01	.01	.07	.09	.12
Pattern and mcldmakers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.02	.02	.01	.03	.02	.02	.40	.39	.41
Tool and diemakers, apprentices	.02	.02	.02	.00	.00	.00	.00	.00	.01
Mechanics,repairers,installers	1.94	2.04	2.82	5.12	4.77	4.98	9.43	9.39	9.16
Air cond, heating, refrig mech	.03	.05	.05	.23	.29	.26	1.40	1.94	1.74
Auto accessories installers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Auto body repairers	.00	.00	.00	.58	.44	.46	.02	.02	.01
Auto mechanics and apprentices	.14	.14	.21	2.98	2.70	2.74	.69	.53	.28
Data processing mach repairers	.08	.11	.16	.00	.01	.01	.00	.00	.00
Farm implement mechanics	.02	.03	.05	.20	.17	.16	4.02	3.64	3.82
Heavy equip mech, incl diesel	.55	.69	1.02	.22	.27	.35	2.31	2.49	2.96
Household appliance mechanics	.09	.10	.14	.23	.24	.25	.32	.27	.12
Office machine repairers	.46	.33	.51	.10	.09	.16	.00	.00	.00
Radio, television repairers	.06	.04	.01	.27	.22	.19	.11	.08	.07
Other mechanics and apprentices	.51	.57	.67	.30	.33	.39	.56	.43	.17
Printing trade crafts workers	.35	.32	.20	.05	.05	.04	.02	.03	.02
Bookbinders	.03	.02	.00	.00	.00	.00	.00	.00	.00
Compositors and typesetters	.12	.12	.07	.02	.02	.01	.02	.02	.02
Engravers exc photoengravers	.10	.09	.05	.01	.02	.01	.00	.00	.00
Photoengravers, lithographers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Press,plate printers,apprentices	.08	.08	.08	.01	.01	.01	.01	.01	.00
Transport,public util craft wrkrs	.01	.02	.02	.01	.00	.00	.01	.01	.00
Telephone installers,repairers	.01	.01	.02	.00	.00	.00	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other wholesale trade			Retail trade			Building materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	2.21	2.42	2.82	1.93	2.05	1.97	2.27	2.67	2.51
Bakers	.00	.00	.00	.39	.38	.28	.00	.00	.00
Cabinetmakers	.11	.08	.03	.16	.14	.10	.31	.36	.31
Carpet installers	.39	.46	.55	.17	.18	.18	.07	.08	.06
Crane,derrick,hoist operator	.05	.04	.04	.01	.01	.01	.08	.07	.07
Decorators, window dressers	.43	.69	.88	.46	.64	.72	.09	.16	.18
Furniture and wood finishers	.07	.08	.13	.04	.03	.03	.00	.00	.00
Furriers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Glaziers	.02	.02	.02	.08	.09	.08	1.47	1.76	1.76
Inspectors, log and lumber	.02	.02	.01	.01	.01	.00	.12	.11	.04
Inspectors, other	.12	.11	.06	.02	.02	.01	.01	.01	.03
Jewelers and watchmakers	.75	.67	.74	.15	.15	.14	.00	.00	.00
Opticians,lens grinder,polisher	.01	.01	.01	.07	.09	.10	.00	.00	.00
Piano,organ tuners, repairers	.01	.01	.03	.01	.01	.01	.00	.00	.00
Shoe repairers	.00	.00	.00	.02	.01	.01	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.01	.02	.02	.01	.01	.01
Stationary engineers	.04	.03	.04	.02	.02	.01	.05	.04	.01
Stone cutters, stone carvers	.01	.01	.01	.01	.01	.01	.02	.02	.02
Tailors	.01	.01	.02	.15	.14	.11	.00	.00	.00
Upholsterers	.10	.08	.14	.11	.07	.07	.00	.00	.00
Other crafts workers	.07	.08	.12	.05	.06	.08	.05	.04	.02
Operatives	13.81	13.18	13.59	9.59	7.93	6.33	10.21	10.01	7.96
Operatives,except transport	7.30	7.28	7.57	7.23	5.73	4.33	2.45	2.56	2.16
Semiskilled metalworking	.32	.30	.31	.04	.04	.05	.30	.30	.34
Drill press operatives	.03	.02	.01	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.01	.01	.02	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.04	.03	.03	.00	.00	.00	.03	.02	.00
Metal platers	.02	.03	.04	.00	.00	.00	.00	.00	.00
Other precision mach operators	.01	.01	.02	.00	.00	.00	.00	.00	.00
Punch,stamping press operatives	.03	.03	.04	.00	.00	.00	.01	.00	.00
Solderers	.04	.03	.02	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.14	.14	.15	.03	.04	.04	.26	.28	.34
Semiskilled packing, inspecting	2.48	2.16	1.74	.78	.75	.69	.11	.12	.13
Meat wrappers, retail trade	.00	.00	.00	.37	.37	.36	.00	.00	.00
Packer,wrapper,exc meat,prodc	2.33	2.00	1.54	.40	.37	.33	.11	.12	.13
Produce grdr,pkrs,exc fact,farm	.15	.16	.20	.01	.01	.01	.00	.00	.01
Other operatives, exc transport	4.51	4.83	5.52	6.42	4.94	3.59	2.04	2.14	1.69
Asbestos,insulation workers	.00	.00	.00	.00	.00	.00	.03	.05	.02
Assemblers	.47	.53	.68	.03	.03	.04	.26	.30	.47
Bottling,canning operatives	.01	.01	.02	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.01	.01	.02	.03	.02	.02	.00	.00	.00
Cutting operatives, other	.43	.47	.65	.04	.04	.04	.27	.27	.14
Dressmakers, exc factory	.43	.48	.43	.44	.45	.26	.00	.00	.00
Drillers, earth	.01	.01	.02	.00	.00	.00	.00	.00	.00
Dry wall installers, lathers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Dyers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.17	.17	.24	.02	.01	.01	.05	.04	.02
Garage wrkr,gas station atten	.02	.02	.03	3.75	2.43	1.62	.06	.03	.02
Laundry,dry cleang oprs,other	.00	.00	.00	.02	.02	.02	.00	.00	.00
Meat cutters,butchers,exc mfg	.02	.02	.01	1.38	1.09	.80	.00	.00	.00
Milleners	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mixing operatives	.13	.15	.23	.02	.03	.03	.05	.06	.03
Oilers,greasers,exc automobiles	.03	.02	.01	.01	.01	.00	.02	.02	.02
Painters, mfg articles	.05	.05	.08	.10	.09	.09	.03	.02	.02
Photographic process workers	.16	.15	.13	.01	.01	.01	.01	.01	.00
Riveters and fasteners	.01	.01	.02	.00	.00	.00	.01	.01	.01
Sailors and deckhands	.01	.01	.00	.00	.00	.00	.00	.00	.00
Sawyers	.15	.13	.06	.02	.03	.02	.47	.52	.48
Sewers and stitchers	.16	.16	.31	.06	.06	.07	.03	.02	.02
Furnace tendr,stokr,exc metal	.05	.03	.01	.01	.01	.01	.03	.02	.03
Winding operatives, other	.03	.04	.04	.00	.00	.00	.01	.01	.01
Miscellaneous machine operatves	1.10	1.13	1.07	.20	.26	.24	.38	.41	.24
Other operatives,exc transport	1.05	1.22	1.44	.28	.34	.30	.34	.34	.18

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other wholesale trade			Retail trade			Building materials		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport equipment operatives	6.51	5.90	6.02	2.36	2.20	2.00	7.76	7.46	5.80
Delivery and route workers	2.81	2.33	2.09	1.27	1.17	1.14	2.37	2.41	2.87
Fork lift,tow motor operatives	.47	.59	.82	.09	.12	.13	.52	.63	.46
Parking attendants	.00	.00	.00	.03	.04	.03	.00	.00	.00
Taxicab drivers, chauffeurs	.06	.04	.00	.03	.03	.02	.02	.02	.00
Truck drivers	3.17	2.94	3.11	.94	.84	.68	4.85	4.41	2.47
Service workers	1.42	1.38	1.27	18.57	21.99	22.13	.89	.74	.30
Cleaning service workers	.85	.80	.75	1.11	1.23	.93	.76	.62	.24
Lodging qtrs cleaners,exc privt	.02	.01	.02	.04	.03	.02	.00	.00	.00
Bldg interior cleaners, other	.26	.26	.28	.40	.48	.35	.28	.26	.13
Janitors and sextons	.57	.53	.45	.66	.72	.56	.47	.37	.12
Food service workers	.08	.07	.06	16.82	20.08	20.59	.01	.01	.00
Bartenders	.00	.00	.00	1.24	1.54	1.59	.00	.00	.00
Waiters' assistants	.00	.00	.00	.64	1.05	1.27	.00	.00	.00
Cooks,exc private households	.03	.02	.01	3.95	5.33	5.95	.00	.00	.00
Dishwashers	.00	.00	.00	1.03	1.06	1.19	.00	.00	.00
Food counter,fountain workers	.01	.02	.02	1.47	2.09	2.33	.00	.00	.00
Waiters	.02	.01	.01	7.41	7.73	7.05	.01	.00	.00
Other food serv wkrs,exc privt	.02	.02	.02	1.09	1.29	1.21	.00	.00	.00
Health service workers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personal service workers	.35	.40	.41	.44	.49	.42	.00	.00	.00
Attendants,personal serv,other	.01	.01	.02	.06	.06	.06	.00	.00	.00
Barbers	.00	.00	.00	.01	.00	.00	.00	.00	.00
Child care workers, exc private	.01	.00	.01	.01	.01	.01	.00	.00	.00
Elevator operators	.06	.04	.01	.03	.02	.01	.00	.00	.00
Hairdressers and cosmetologists	.27	.33	.35	.18	.23	.20	.00	.00	.00
Housekeepers, exc private homes	.01	.01	.01	.14	.16	.13	.00	.00	.00
Protective service workers	.14	.12	.06	.18	.18	.18	.12	.11	.06
Guards	.13	.11	.06	.16	.16	.16	.12	.11	.06
Police and detectives	.01	.01	.01	.02	.02	.01	.00	.00	.00
Laborers, except farm	8.78	8.49	8.47	5.24	5.45	5.09	5.91	5.44	2.99
Animal caretakers, exc farm	.04	.04	.03	.01	.02	.02	.00	.00	.00
Carpenter helpers	.03	.02	.02	.03	.02	.03	.31	.29	.33
Constr labr,exc carpenter helper	.07	.07	.07	.08	.07	.04	.99	.85	.33
Freight and material handlers	1.84	1.83	2.14	.42	.43	.45	2.07	2.02	1.21
Gardenrs,groundkeepers,exc farm	.34	.39	.51	.05	.06	.06	.07	.06	.05
Longshore workers, stevedores	.02	.01	.00	.00	.00	.00	.00	.00	.00
Timbercutting, logging workers	.08	.08	.10	.01	.01	.01	.11	.10	.04
Stock handlers	2.67	2.86	2.72	4.02	4.24	4.00	1.20	1.04	.32
Teamsters	.01	.01	.02	.00	.00	.00	.01	.01	.01
Vehicle washers,equip cleaners	.02	.02	.02	.28	.29	.22	.04	.04	.02
Warehouse labcrers, other	1.56	1.26	.65	.18	.16	.13	.35	.35	.31
Other laborers	2.11	1.90	2.18	.16	.16	.14	.77	.67	.36

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Lumber and building materials			Hardware and farm equipment			General merchandise, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.40	1.44	1.18	.61	.73	.78	1.93	2.31	2.12
Engineers, technical	.17	.13	.08	.06	.04	.02	.05	.05	.07
Industrial	.01	.01	.01	.00	.00	.00	.02	.02	.03
Mechanical	.05	.04	.02	.01	.01	.01	.01	.01	.01
Sales	.10	.07	.05	.03	.02	.00	.00	.00	.00
Other engineers	.02	.01	.01	.01	.01	.01	.01	.01	.02
Mathematical specialists	.00	.00	.00	.00	.00	.00	.02	.02	.02
Statisticians	.00	.00	.00	.00	.00	.00	.02	.02	.02
Engineering, science technicians	.29	.28	.30	.03	.04	.06	.04	.05	.08
Chemical technicians	.02	.02	.02	.00	.00	.00	.00	.00	.00
Drafters	.21	.20	.24	.01	.02	.04	.03	.02	.03
Electrical and electronic	.01	.01	.01	.01	.01	.01	.01	.02	.04
Surveyors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.04	.04	.02	.01	.01	.01	.00	.00	.01
Medical workers, exc technicians	.00	.00	.00	.00	.00	.00	.07	.06	.03
Pharmacists	.00	.00	.00	.00	.00	.00	.03	.03	.01
Registered nurses	.00	.00	.00	.00	.00	.00	.03	.03	.02
Technicians, except health	.03	.03	.02	.01	.02	.04	.01	.02	.02
Airplane pilots	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.01	.01	.01	.01	.02	.04	.01	.02	.02
Computer specialists	.03	.04	.04	.03	.04	.04	.12	.17	.16
Computer programmers	.02	.03	.03	.03	.03	.03	.08	.10	.10
Computer systems analysts	.01	.01	.01	.01	.01	.01	.04	.06	.05
Other computer specialists	.00	.00	.00	.00	.00	.00	.01	.02	.01
Social scientists	.01	.02	.01	.00	.00	.00	.02	.03	.03
Economists	.01	.02	.01	.00	.00	.00	.02	.03	.03
Teachers	.01	.01	.01	.00	.00	.00	.15	.12	.08
Adult education	.01	.01	.01	.00	.00	.00	.02	.03	.02
Other teachers	.00	.00	.00	.00	.00	.00	.13	.09	.06
Writers, artists, entertainers	.14	.15	.10	.03	.06	.11	.45	.63	.65
Athletes and kindred workers	.03	.03	.02	.00	.00	.00	.03	.04	.05
Designers	.07	.07	.03	.00	.00	.00	.12	.16	.16
Editors and reporters	.01	.01	.01	.01	.03	.05	.10	.11	.09
Painters and sculptors	.01	.02	.01	.00	.00	.00	.13	.22	.26
Photographers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Public relations specialists	.03	.04	.02	.02	.03	.05	.05	.07	.07
Other writers, artists, entertain	.00	.00	.00	.00	.00	.00	.01	.01	.02
Other professional and technical	.71	.78	.63	.45	.54	.52	1.00	1.17	.96
Accountants	.52	.59	.51	.37	.45	.43	.47	.57	.55
Architects	.02	.01	.00	.00	.00	.00	.01	.01	.01
Foresters and conservationists	.03	.03	.03	.00	.00	.00	.00	.00	.00
Lawyers	.00	.00	.00	.00	.00	.00	.02	.03	.02
Operations and systems research	.00	.00	.00	.00	.00	.00	.02	.03	.03
Personnel, labor relations wkrs	.14	.14	.09	.08	.09	.08	.47	.51	.33
Other research workers	.01	.01	.01	.00	.00	.00	.01	.02	.02
Managers, officials, proprietors	19.75	20.46	19.37	22.68	25.21	23.15	13.75	15.60	17.13
Buyers, sales, loan managers	3.43	2.65	1.35	3.04	2.59	1.60	6.50	6.82	8.21
Bank, financial managers	.06	.05	.02	.08	.07	.04	.09	.10	.10
Credit managers	.42	.25	.20	.10	.06	.05	.35	.23	.22
Buyers, wholesale, retail trade	.85	.63	.28	1.05	.85	.49	1.58	1.56	1.52
Sales manager, retail trade	2.11	1.72	.85	1.81	1.60	1.02	4.49	4.94	6.37
Other managers, officials, proprts	16.32	17.82	18.02	19.64	22.62	21.55	7.25	8.78	8.93
Mgrs, superintendents, building	.02	.02	.03	.00	.00	.00	.01	.01	.03
Office managers, other	.81	.79	.65	.43	.45	.43	.27	.31	.40
Restaurant, cafe, bar, managers	.03	.02	.01	.06	.03	.00	.15	.13	.12
Other managers, administrators	15.46	16.98	17.33	19.15	22.14	21.12	6.83	8.33	8.38

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Lumber and building materials			Hardware and farm equipment			General merchandise, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	20.32	22.21	31.38	33.42	29.76	35.79	44.87	39.79	35.27
Advertising agents,sales worker	.02	.02	.04	.00	.00	.00	.04	.06	.06
Demonstrators	.00	.00	.00	.00	.00	.00	2.05	1.96	1.46
Hucksters and peddlers	.00	.00	.00	.00	.00	.00	7.99	6.77	4.82
Newspaper carriers and vendors	.00	.00	.00	.00	.00	.00	.56	.89	.35
Other sales workers	20.30	22.19	31.34	33.42	29.76	35.79	34.24	30.10	28.58
Clerical workers	15.84	14.98	13.61	14.69	14.57	14.26	23.07	25.37	28.79
Stenographers,typists,secretaries	3.80	3.75	4.18	2.13	2.16	2.28	2.20	2.29	2.66
Other secretaries	3.29	3.33	3.85	1.84	1.91	2.09	1.33	1.48	1.83
Stenographers	.04	.02	.01	.03	.02	.01	.03	.02	.01
Typists	.47	.40	.33	.26	.23	.18	.84	.80	.82
Office machine operators	.23	.21	.11	.20	.15	.07	.90	.97	.89
Bookkeeping and billing	.09	.04	.01	.05	.02	.00	.12	.08	.11
Calculating	.02	.01	.01	.01	.01	.01	.17	.15	.21
Computer and peripheral equip	.05	.10	.07	.02	.04	.02	.14	.32	.27
Duplicating	.00	.00	.00	.00	.00	.00	.01	.01	.02
Keypunch	.07	.05	.02	.12	.08	.03	.35	.29	.17
Other office machine operators	.01	.01	.01	.01	.01	.01	.11	.13	.11
Other clerical workers	11.81	11.02	9.31	12.36	12.26	11.91	19.97	22.10	25.25
Billing clerks	.21	.22	.22	.12	.13	.13	.32	.41	.68
Bookkeepers	7.18	6.65	5.66	7.54	7.31	6.68	2.48	2.47	2.06
Cashiers	.66	.77	1.01	1.91	2.29	3.23	6.07	6.97	8.86
Clerical supervisors, other	.06	.06	.05	.04	.05	.04	.30	.39	.45
Collectors, bill and account	.05	.04	.01	.07	.06	.03	.24	.27	.31
Counter clerks,exc food	.25	.24	.18	.16	.17	.16	.91	1.09	1.43
Dispatchers,starters,vehicle	.23	.23	.17	.01	.01	.01	.03	.04	.07
Estimators,investigators,other	.15	.15	.06	.14	.14	.06	.94	1.25	1.04
Expeditors,production controlrs	.07	.07	.05	.04	.04	.05	.09	.12	.19
File clerks	.14	.13	.13	.12	.10	.11	.45	.38	.25
Mail handlers,exc post office	.07	.06	.04	.07	.06	.03	.24	.27	.32
Messengers and office helpers	.04	.03	.02	.05	.04	.01	.04	.04	.03
Payroll,timekeeping clerks	.09	.10	.07	.02	.03	.05	.27	.33	.31
Receptionists	.20	.15	.05	.06	.05	.03	.18	.19	.21
Shipping and receiving clerks	.57	.54	.55	.46	.44	.42	1.14	1.18	1.39
Statistical clerks	.31	.32	.20	.06	.07	.04	.33	.43	.57
Stock clerks and store keepers	.68	.47	.14	.91	.69	.25	1.81	1.76	2.02
Telephone operators	.12	.09	.07	.06	.04	.03	.45	.35	.32
Weighers	.04	.04	.02	.01	.01	.01	.01	.01	.01
Misc clerical workers	.69	.66	.62	.53	.54	.54	3.67	4.17	4.75
Crafts and kindred workers	19.36	19.94	19.35	21.48	22.94	20.56	3.95	4.72	5.10
Construction crafts workers	9.13	8.71	8.49	1.22	1.11	.80	.31	.30	.24
Carpenters and apprentices	4.21	4.49	4.36	.26	.27	.23	.17	.15	.07
Brick,stonemasons, apprentices	.12	.08	.02	.02	.01	.01	.00	.00	.00
Bulldozer operators	.14	.17	.39	.05	.04	.02	.00	.00	.00
Cement and concrete finishers	.04	.04	.06	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.40	.41	.45	.19	.19	.14	.06	.06	.05
Excavating,grading mach operatr	.23	.21	.20	.02	.01	.01	.00	.00	.00
Floor layers, exc tile setters	.08	.04	.01	.01	.01	.00	.01	.01	.01
Painters and apprentices	.85	.64	.21	.21	.17	.07	.05	.06	.09
Paperhangers	.05	.05	.02	.00	.00	.00	.00	.00	.00
Plasterers and apprentices	.03	.02	.02	.00	.00	.00	.00	.00	.00
Plumbers,pipefitters,aprentices	2.32	2.20	2.68	.45	.40	.31	.02	.01	.01
Roofers and slaters	.08	.07	.02	.01	.01	.01	.00	.00	.00
Structural metal craft workers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Tile setters	.57	.29	.06	.02	.01	.01	.00	.00	.01
Blue collar worker supervisors	2.40	2.61	2.52	.90	1.09	1.37	1.02	1.14	1.09
Metalworkg craft wrkts,exc mech	.78	.75	.89	.30	.33	.35	.02	.03	.03
Boilermakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.09	.10	.13	.15	.16	.12	.02	.02	.03
Millwrights	.07	.09	.11	.06	.08	.13	.00	.00	.00
Sheetmetal workers, apprentices	.60	.55	.63	.09	.08	.09	.00	.00	.00
Tool and diemakers, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Lumber and building materials			Hardware and farm equipment			General merchandise, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	3.37	3.89	3.45	18.91	20.20	17.71	1.50	1.74	2.27
Air cond, heating, refrig meca	2.20	2.83	2.80	.15	.19	.15	.11	.16	.18
Auto body repairers	.00	.00	.00	.06	.04	.02	.01	.01	.01
Auto mechanics and apprentices	.37	.27	.09	1.19	1.02	.57	.07	.06	.09
Farm implement mechanics	.04	.04	.03	10.24	10.73	9.50	.00	.00	.00
Heavy equip mech, incl diesel	.34	.40	.39	5.40	6.60	6.81	.11	.16	.28
Household appliance mechanics	.23	.19	.07	.45	.41	.19	.36	.49	.75
Office machine repairers	.00	.00	.00	.00	.00	.00	.02	.01	.02
Radio, television repairers	.04	.04	.05	.21	.17	.10	.24	.19	.09
Other mechanics and apprentices	.15	.12	.03	1.21	1.03	.36	.58	.65	.84
Printing trade crafts workers	.03	.04	.03	.01	.01	.01	.07	.07	.06
Compositors and typesetters	.02	.02	.03	.01	.01	.01	.05	.04	.02
Press, plate printers, apprentices	.01	.01	.00	.00	.00	.00	.02	.03	.04
Transport, public util craft wkrs	.02	.01	.01	.00	.00	.00	.00	.00	.00
Telephone installers, repairers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	3.63	3.92	3.96	.14	.19	.33	1.02	1.43	1.40
Bakers	.00	.00	.00	.00	.00	.00	.06	.05	.04
Cabinetmakers	.49	.52	.47	.02	.03	.06	.03	.03	.01
Carpet installers	.10	.10	.07	.03	.04	.05	.04	.06	.10
Crane, derrick, hoist operator	.12	.09	.08	.01	.01	.06	.00	.00	.00
Decorators, window dressers	.13	.23	.29	.02	.03	.01	.54	.90	.74
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Glaziers	2.40	2.65	2.90	.01	.03	.05	.00	.00	.00
Inspectors, log and lumber	.19	.16	.06	.01	.01	.01	.00	.00	.00
Inspectors, other	.01	.01	.01	.01	.02	.05	.04	.04	.02
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.05	.05	.05
Shoe repairers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Sign painters and letterers	.01	.01	.01	.01	.01	.01	.04	.05	.06
Stationary engineers	.07	.05	.02	.01	.01	.01	.04	.03	.01
Stone cutters, stone carvers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Tailors	.00	.00	.00	.00	.00	.00	.11	.16	.27
Upholsterers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Other crafts workers	.07	.06	.03	.01	.01	.01	.00	.00	.00
Operatives	14.17	13.06	10.59	4.03	4.02	4.02	3.60	3.68	3.66
Operatives, except transport	3.05	3.04	2.49	1.52	1.61	1.66	2.06	2.26	2.38
Semiskilled metalworking	.23	.23	.26	.41	.43	.47	.02	.02	.03
Lathe, milling mach operatives	.03	.02	.00	.03	.02	.00	.01	.00	.01
Punch, stamping press operatives	.00	.00	.00	.02	.01	.01	.00	.00	.00
Welders and flamecutters	.20	.22	.25	.36	.40	.46	.01	.01	.02
Semiskilled packing, inspecting	.12	.13	.15	.10	.10	.10	.67	.67	.61
Packer, wrapper, exc meat, prodce	.12	.13	.15	.09	.09	.09	.66	.66	.60
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.01	.01	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Lumber and building materials			Hardware and farm equipment			General merchandise, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	2.70	2.68	2.09	1.02	1.08	1.09	1.37	1.57	1.74
Asbestos,insulation workers	.05	.07	.03	.00	.00	.00	.00	.00	.00
Assemblers	.16	.21	.33	.40	.49	.68	.02	.03	.05
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Cutting operatives, other	.43	.39	.24	.02	.02	.01	.04	.05	.08
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.63	.79	.66
Dry wall installers, lathers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.06	.05	.02	.03	.02	.01	.01	.01	.01
Garage wrkr,gas station atten	.03	.02	.01	.09	.05	.02	.21	.16	.21
Meat cutters,luthers,exc mfg	.00	.00	.00	.00	.00	.00	.08	.07	.05
Milleners	.00	.00	.00	.00	.00	.00	.00	.01	.01
Mixing operatives	.08	.08	.05	.01	.01	.01	.00	.00	.00
Oilers,greasers,exc automobiles	.03	.03	.03	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.04	.03	.02	.02	.01	.01	.00	.00	.00
Photographic process workers	.01	.01	.00	.00	.00	.00	.01	.01	.01
Riveters and fasteners	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sawyers	.74	.77	.76	.03	.04	.06	.00	.00	.00
Sewers and stitchers	.05	.04	.03	.00	.00	.00	.06	.07	.16
Furnace tendr,stokr,exc metal	.04	.02	.01	.01	.01	.05	.01	.01	.01
Winding operatives, other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Miscellaneous machine operatives	.59	.58	.38	.06	.06	.04	.09	.11	.15
Other operatives,exc transport	.34	.33	.16	.34	.36	.20	.17	.22	.29
Transport equipment operatives	11.12	10.02	8.10	2.51	2.41	2.36	1.55	1.42	1.28
Delivery and route workers	3.19	3.09	3.95	1.09	1.05	1.24	1.10	.98	.90
Fork lift,tow motor operatives	.80	.91	.74	.07	.07	.05	.09	.12	.16
Parking attendants	.00	.00	.00	.00	.00	.00	.02	.03	.04
Taxicab drivers, chauffeurs	.03	.03	.01	.00	.00	.00	.01	.01	.01
Truck drivers	7.09	6.00	3.40	1.35	1.28	1.07	.33	.28	.18
Service workers	.95	.77	.29	.79	.67	.33	5.39	4.76	4.27
Cleaning service workers	.78	.63	.24	.73	.61	.25	1.19	1.18	.91
Bldg interior cleaners, other	.29	.26	.13	.28	.25	.12	.40	.42	.34
Janitors and sextons	.49	.37	.10	.45	.36	.13	.79	.76	.57
Food service workers	.00	.00	.00	.02	.02	.01	2.73	1.96	1.93
Waiters' assistants	.00	.00	.00	.00	.00	.00	.10	.12	.27
Cooks,exc private households	.00	.00	.00	.00	.00	.00	.43	.30	.15
Dishwashers	.00	.00	.00	.00	.00	.00	.15	.11	.17
Food counter,fountain workers	.00	.00	.00	.00	.00	.00	.46	.45	.47
Waiters	.00	.00	.00	.02	.01	.01	1.20	.64	.30
Other food serv wkrs,exc privt	.00	.00	.00	.00	.00	.00	.39	.35	.56
Personal service workers	.00	.00	.00	.00	.00	.00	.93	1.04	.93
Attendants,personal serv,other	.00	.00	.00	.00	.00	.00	.10	.10	.13
Barbers	.00	.00	.00	.00	.00	.00	.05	.01	.01
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.02	.02	.04
Elevator operators	.00	.00	.00	.00	.00	.00	.11	.07	.01
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.60	.80	.70
Housekeepers, exc private homes	.00	.00	.00	.00	.00	.00	.05	.04	.04
Protective service workers	.18	.14	.05	.04	.04	.07	.54	.58	.49
Guards	.17	.14	.05	.04	.04	.07	.45	.49	.45
Police and detectives	.00	.00	.00	.00	.00	.00	.09	.08	.05
Laborers, except farm	8.22	7.13	4.24	2.30	2.10	1.11	3.44	3.78	3.67
Carpenter helpers	.48	.42	.51	.04	.04	.06	.01	.01	.01
Constr labr,exc carpenter helpr	1.53	1.23	.54	.14	.10	.02	.03	.03	.04
Freight and material handlers	3.17	2.88	1.84	.34	.34	.26	.38	.42	.50
Garbage collectors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Gardens,groundkeepers,exc farm	.06	.05	.02	.08	.08	.09	.01	.02	.03
Timbercutting, logging workers	.18	.15	.06	.01	.01	.01	.01	.01	.02
Stock handlers	1.12	.95	.26	1.34	1.21	.41	2.64	2.97	2.81
Teamsters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Vehicle washers,equip cleaners	.03	.03	.01	.06	.06	.04	.01	.02	.02
Warehouse labcrs, other	.43	.42	.40	.21	.21	.19	.30	.26	.18
Other laborers	1.22	.99	.57	.07	.06	.04	.04	.04	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Department stores, mail order			Limited price stores			Vending machine operators		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.27	2.75	2.38	1.19	1.39	1.12	1.91	2.08	1.71
Engineers, technical	.05	.06	.06	.01	.01	.00	.23	.22	.22
Electrical	.01	.01	.01	.00	.00	.00	.01	.01	.00
Industrial	.02	.03	.03	.00	.00	.00	.08	.10	.11
Mechanical	.01	.01	.01	.00	.00	.00	.07	.04	.00
Other engineers	.01	.01	.02	.01	.01	.00	.07	.07	.11
Mathematical specialists	.02	.02	.02	.01	.00	.00	.00	.00	.00
Statisticians	.02	.02	.02	.01	.00	.00	.00	.00	.00
Engineering, science technicians	.04	.05	.08	.04	.05	.09	.12	.15	.25
Drafters	.02	.02	.03	.04	.05	.09	.07	.07	.09
Electrical and electronic	.02	.03	.05	.00	.00	.00	.05	.07	.16
Medical workers, exc technicians	.09	.08	.03	.02	.03	.05	.11	.07	.02
Dietitians	.00	.00	.00	.00	.00	.00	.08	.05	.01
Pharmacists	.05	.04	.01	.02	.02	.05	.00	.00	.00
Registered nurses	.04	.04	.02	.00	.00	.00	.03	.02	.01
Technicians, except health	.01	.02	.02	.01	.01	.01	.06	.08	.07
Airplane pilots	.00	.00	.00	.01	.01	.01	.00	.00	.00
Radio operators	.00	.00	.00	.00	.00	.00	.05	.07	.07
Other technicians except health	.01	.02	.02	.00	.00	.00	.01	.01	.00
Computer specialists	.15	.21	.19	.06	.09	.07	.07	.08	.03
Computer programers	.10	.12	.11	.03	.04	.03	.04	.03	.00
Computer systems analysts	.05	.07	.06	.02	.03	.03	.02	.03	.02
Other computer specialists	.01	.02	.02	.01	.02	.01	.01	.02	.01
Social scientists	.02	.04	.04	.00	.00	.00	.01	.01	.00
Economists	.02	.04	.04	.00	.00	.00	.01	.01	.00
Teachers	.10	.09	.07	.00	.00	.00	.02	.02	.02
Adult education	.02	.03	.02	.00	.00	.00	.02	.02	.02
Other teachers	.08	.06	.05	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	.67	.88	.85	.06	.09	.15	.15	.20	.24
Athletes and kindred workers	.04	.06	.06	.00	.00	.00	.00	.00	.00
Designers	.17	.21	.20	.03	.05	.08	.08	.10	.12
Editors and reporters	.14	.16	.12	.02	.03	.04	.00	.00	.00
Painters and sculptors	.21	.33	.36	.00	.00	.00	.00	.00	.00
Photographers	.03	.03	.01	.00	.00	.00	.00	.00	.00
Public relations specialists	.06	.08	.07	.01	.02	.04	.07	.09	.12
Other writers, artists, entertain	.01	.02	.02	.00	.00	.00	.00	.00	.00
Other professional and technical	1.12	1.31	1.02	.99	1.12	.75	1.15	1.26	.87
Accountants	.56	.68	.60	.20	.26	.26	.78	.89	.70
Lawyers	.02	.04	.02	.02	.04	.05	.01	.01	.00
Operations and systems research	.03	.04	.03	.01	.02	.03	.00	.00	.00
Personnel, labor relations wkrs	.49	.53	.34	.75	.79	.40	.36	.36	.17
Other research workers	.02	.02	.02	.01	.01	.01	.00	.00	.00
Managers, officials, proprietors	13.66	15.11	16.30	18.35	21.98	22.30	15.56	17.40	17.84
Buyers, sales, loan managers	8.22	8.46	10.00	5.27	4.72	3.19	1.95	1.99	2.32
Bank, financial managers	.12	.13	.12	.04	.04	.03	.16	.16	.10
Credit managers	.45	.28	.25	.37	.24	.26	.06	.04	.06
Buyers, wholesale, retail trade	2.03	1.95	1.77	1.24	1.05	.58	.29	.30	.37
Sales manager, retail trade	5.62	6.10	7.86	3.63	3.39	2.33	1.43	1.49	1.79
Other managers, officials, properts	5.44	6.65	6.30	13.07	17.26	19.11	13.62	15.42	15.52
MgRS, superintendents, building	.01	.02	.03	.01	.01	.01	.05	.07	.14
Office managers, other	.25	.30	.40	.36	.39	.35	.66	.74	.96
Restaurant, cafe, bar, managers	.12	.12	.12	.30	.24	.09	.51	.49	.42
Other managers, administrators	5.06	6.22	5.75	12.40	16.62	18.65	12.40	14.13	14.00
Sales workers	39.33	34.21	32.36	40.46	34.79	30.46	3.76	3.98	5.01
Advertising agents, sales worker	.05	.07	.07	.04	.06	.10	.00	.00	.00
Demonstrators	.07	.07	.14	.07	.07	.15	.00	.00	.00
Other sales workers	39.21	34.08	32.16	40.35	34.66	30.22	3.76	3.98	5.01
Clerical workers	27.62	29.88	32.24	23.57	27.05	34.04	12.93	13.48	14.90

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Department stores, mail order			Limited price stores			Vending machine operators		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Stenographers, typists, secretaries	2.57	2.64	2.88	1.36	1.43	1.58	2.97	3.06	3.47
Other secretaries	1.48	1.63	1.92	.95	1.06	1.25	2.44	2.60	3.03
Stenographers	.03	.02	.01	.01	.01	.01	.02	.01	.01
Typists	1.06	.99	.96	.39	.36	.33	.52	.45	.42
Office machine operators	1.21	1.27	1.12	.40	.38	.20	.42	.41	.29
Bookkeeping and billing	.17	.11	.14	.02	.01	.01	.04	.02	.03
Calculating	.24	.21	.29	.08	.05	.02	.04	.02	.01
Computer and peripheral equip	.17	.40	.31	.07	.15	.11	.05	.14	.16
Duplicating	.02	.02	.03	.01	.01	.01	.00	.00	.00
Keypunch	.44	.36	.20	.20	.14	.04	.28	.21	.09
Tabulating	.01	.00	.00	.00	.00	.00	.00	.00	.00
Other office machine operators	.16	.18	.15	.02	.03	.02	.01	.01	.01
Other clerical workers	23.84	25.97	28.24	21.82	25.24	32.26	9.53	10.02	11.14
Billing clerks	.43	.54	.85	.20	.22	.24	.11	.15	.26
Bookkeepers	2.58	2.54	1.96	2.86	3.07	3.19	3.35	3.31	3.20
Cashiers	5.82	6.84	8.52	12.38	15.58	23.16	2.34	2.66	3.17
Clerical supervisors, other	.38	.48	.56	.31	.35	.27	.08	.10	.12
Collectors, bill and account	.32	.35	.40	.13	.11	.05	.26	.27	.32
Counter clerks, exc food	1.26	1.45	1.80	.49	.50	.40	.15	.18	.23
Dispatchers, starters, vehicle	.04	.05	.08	.01	.01	.01	.12	.16	.26
Estimators, investigators, other	1.39	1.74	1.36	.19	.21	.09	.25	.30	.27
Expeditors, production controls	.12	.16	.24	.03	.03	.02	.06	.08	.14
File clerks	.62	.50	.30	.20	.19	.19	.10	.09	.10
Library attendants, assistants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mail handlers, exc post office	.33	.36	.41	.07	.07	.05	.09	.09	.10
Messengers and office helpers	.05	.05	.03	.02	.02	.04	.06	.05	.04
Payroll, timekeeping clerks	.35	.41	.35	.22	.30	.40	.23	.26	.22
Receptionists	.22	.23	.24	.09	.07	.02	.29	.30	.31
Shipping and receiving clerks	1.50	1.49	1.64	.73	.83	1.24	.26	.24	.25
Statistical clerks	.43	.56	.71	.15	.15	.09	.24	.31	.42
Stock clerks and store keepers	2.08	2.03	2.16	2.01	1.71	1.00	.81	.80	.96
Telephone operators	.68	.50	.43	.08	.07	.10	.10	.04	.00
Weighers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Misc clerical workers	5.22	5.69	6.19	1.65	1.76	1.72	.61	.63	.79
Crafts and kindred workers	4.27	5.08	5.05	1.82	2.10	1.98	24.73	27.68	29.05
Construction crafts workers	.38	.35	.24	.14	.14	.13	.21	.20	.19
Carpenters and apprentices	.20	.18	.07	.11	.11	.05	.06	.05	.03
Brick, stonemasons, apprentices	.00	.00	.00	.01	.01	.00	.00	.00	.00
Electricians and apprentices	.07	.07	.05	.01	.01	.04	.06	.05	.01
Painters and apprentices	.07	.08	.11	.00	.00	.00	.07	.08	.13
Plumbers, pipefitters, apprentices	.02	.01	.01	.01	.02	.04	.03	.02	.02
Blue collar worker supervisors	1.06	1.19	1.10	1.09	1.30	1.41	3.29	3.39	2.28
Metalworkg craft wrkrs, exc mech	.01	.02	.03	.00	.00	.00	.38	.35	.24
Heat treaters, annealers	.00	.00	.00	.00	.00	.00	.04	.03	.01
Forge and hammer operators	.00	.00	.00	.00	.00	.00	.02	.02	.01
Job and die setters, metal	.00	.00	.00	.00	.00	.00	.02	.03	.03
Machinists and apprentices	.01	.01	.03	.00	.00	.00	.19	.19	.15
Millwrights	.00	.00	.00	.00	.00	.00	.03	.02	.01
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.03	.02	.01
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.06	.04	.03
Mechanics, repairers, installers	1.30	1.49	1.81	.18	.16	.12	20.59	23.52	26.23
Air cond, heating, refrig meca	.16	.23	.24	.00	.00	.00	.02	.02	.01
Auto body repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.00	.00	.00	.07	.05	.03	.23	.23	.31
Heavy equip mech, incl diesel	.12	.17	.28	.03	.04	.05	.73	.97	1.38
Household appliance mechanics	.53	.69	1.01	.02	.02	.01	.13	.16	.24
Office machine repairers	.02	.02	.03	.00	.00	.00	.00	.00	.00
Radio, television repairers	.36	.27	.12	.03	.03	.03	.00	.00	.00
Other mechanics and apprentices	.08	.10	.12	.03	.03	.01	19.49	22.14	24.30
Printing trade crafts workers	.09	.09	.06	.04	.06	.09	.00	.00	.00
Compositors and typesetters	.06	.05	.02	.02	.03	.04	.00	.00	.00
Press, plate printers, apprentices	.03	.04	.04	.02	.03	.05	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Department stores, mail order			Limited price stores			Vending machine operators		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.44	1.94	1.81	.37	.44	.23	.26	.23	.11
Bakers	.06	.06	.04	.08	.06	.01	.15	.13	.07
Cabinetmakers	.05	.05	.02	.00	.00	.00	.04	.03	.01
Carpet installers	.06	.08	.13	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.77	1.23	.96	.23	.32	.13	.02	.03	.02
Furniture and wood finishers	.05	.05	.06	.00	.00	.00	.00	.00	.00
Inspectors, other	.06	.06	.03	.00	.00	.00	.00	.00	.00
Jewelers and watchmakers	.06	.06	.06	.01	.02	.06	.00	.00	.00
Shoe repairers	.02	.01	.02	.01	.01	.01	.00	.00	.00
Sign painters and letterers	.05	.06	.09	.03	.02	.01	.01	.01	.00
Stationary engineers	.06	.04	.01	.01	.01	.01	.02	.02	.01
Tailors	.17	.22	.36	.00	.00	.00	.00	.00	.00
Upholsterers	.03	.03	.05	.00	.00	.00	.00	.00	.00
Other crafts workers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Operatives	3.35	3.51	3.37	.76	.84	1.05	29.88	25.55	20.05
Operatives, except transport	2.60	2.79	2.71	.35	.34	.25	2.39	2.18	1.90
Semiskilled metalworking	.01	.01	.01	.00	.00	.00	.45	.40	.40
Grinding machine operatives	.00	.00	.00	.00	.00	.00	.07	.07	.08
Lathe, milling mach operatives	.00	.00	.00	.00	.00	.00	.11	.09	.08
metal platers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Other precision mach operators	.00	.00	.00	.00	.00	.00	.10	.08	.09
Solderers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Welders and flamecutters	.01	.01	.01	.00	.00	.00	.13	.13	.12
Semiskilled packing, inspecting	.91	.88	.77	.14	.13	.10	1.10	.87	.36
Meat wrappers, retail trade	.01	.01	.01	.01	.00	.00	.00	.00	.00
Packer, wrapper, exc meat, prodce	.90	.87	.76	.13	.13	.10	1.10	.87	.36
Other operatives, exc transport	1.68	1.90	1.93	.21	.21	.14	.84	.91	1.13
Assemblers	.02	.02	.02	.03	.04	.06	.16	.17	.18
Clothing ironers and pressers	.03	.03	.05	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.05	.06	.09	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.88	1.06	.83	.00	.00	.00	.00	.00	.00
Filer, polisher, sander, buffer	.01	.01	.01	.00	.00	.00	.00	.00	.17
Garage wrkr, gas station atten	.25	.19	.24	.02	.01	.01	.07	.06	.09
Meat cutters, butchers, exc mfy	.06	.05	.03	.04	.03	.02	.06	.03	.00
Milleners	.01	.01	.01	.00	.00	.00	.00	.00	.00
Oilers, greasers, exc automobiles	.00	.00	.00	.00	.00	.00	.02	.01	.00
Sewers and stitchers	.08	.09	.18	.00	.00	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.01	.01	.01	.00	.00	.00	.04	.02	.01
Miscellaneous machine operatves	.09	.11	.15	.05	.05	.03	.30	.34	.39
Other operatives, exc transport	.19	.25	.31	.07	.07	.03	.22	.27	.30
Transport equipment operatives	.75	.73	.66	.41	.50	.81	27.50	23.37	18.16
Bus drivers	.00	.00	.00	.00	.00	.00	.05	.06	.01
Delivery and route workers	.33	.30	.30	.11	.12	.16	26.36	22.45	17.73
Fork lift, tow motor operatives	.09	.13	.18	.14	.18	.17	.06	.09	.17
Parking attendants	.03	.04	.05	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.01	.01	.01	.00	.00	.00	.00	.00	.00
Truck drivers	.29	.24	.11	.15	.21	.47	1.04	.77	.25
Service workers	5.76	5.24	4.26	9.13	7.54	7.41	9.72	8.24	9.81
Cleaning service workers	1.48	1.45	1.04	.98	.86	.40	.67	.67	.60
Bldg interior cleaners, other	.51	.53	.41	.31	.29	.14	.20	.22	.19
Janitors and sextons	.96	.91	.63	.67	.58	.27	.47	.45	.40
Food service workers	2.16	1.52	1.36	7.82	6.31	6.56	8.98	7.52	9.21
Waiters' assistants	.11	.14	.32	.16	.13	.06	.04	.05	.05
Cooks, exc private households	.33	.23	.09	.98	.84	.78	1.40	.91	.29
Dishwashers	.15	.11	.20	.39	.21	.09	.19	.15	.25
Food counter, fountain workers	.30	.30	.26	1.75	2.04	2.80	.67	.67	.62
Waiters	1.01	.49	.12	4.30	2.91	2.71	.60	.29	.07
Other food serv wkrs, exc privt	.26	.24	.37	.24	.18	.12	6.08	5.47	7.93

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Department stores, mail order			Limited price stores			Vending machine operators		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	1.35	1.49	1.23	.15	.15	.13	.00	.00	.00
Attendants, personal serv, other	.16	.15	.18	.00	.00	.00	.00	.00	.00
Barbers	.02	.00	.00	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.03	.02	.04	.00	.00	.00	.00	.00	.00
Elevator operators	.16	.10	.01	.03	.03	.02	.00	.00	.00
Hairdressers and cosmetologists	.93	1.16	.94	.07	.10	.11	.00	.00	.00
Housekeepers, exc private homes	.07	.06	.05	.05	.03	.01	.00	.00	.00
Protective service workers	.78	.78	.63	.19	.22	.31	.07	.05	.01
Guards	.65	.67	.57	.17	.20	.29	.05	.04	.01
Police and detectives	.13	.11	.06	.02	.02	.03	.02	.01	.00
Laborers, except farm	3.74	4.22	4.04	4.73	4.32	1.64	1.52	1.59	1.62
Carpenter helpers	.01	.01	.01	.01	.00	.00	.03	.02	.01
Constr labr, exc carpenter helpr	.03	.04	.04	.01	.01	.01	.02	.01	.00
Freight and material handlers	.45	.48	.54	.27	.26	.20	.27	.30	.40
Gardenrs, groundkeepers, exc farm	.01	.02	.03	.01	.01	.01	.02	.02	.02
Timbercutting, logging workers	.01	.02	.03	.01	.01	.00	.00	.00	.00
Stock handlers	2.87	3.34	3.17	4.16	3.76	1.18	.50	.61	.68
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	.01	.01	.01	.00	.00	.00	.26	.29	.29
Warehouse labcrers, other	.31	.28	.16	.23	.23	.21	.31	.24	.09
Other laborers	.04	.04	.05	.03	.03	.04	.11	.10	.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Direct selling			Misc merchandise stores			Food and dairy stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.56	.61	.54	2.40	2.43	2.37	.55	.66	.71
Engineers, technical	.02	.01	.00	.08	.08	.15	.03	.03	.06
Electrical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Industrial	.01	.01	.00	.04	.04	.09	.01	.01	.02
Mechanical	.00	.00	.00	.02	.01	.03	.01	.01	.01
Other engineers	.01	.00	.00	.01	.01	.03	.01	.01	.02
Life and physical scientists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Chemists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Mathematical specialists	.01	.01	.00	.01	.01	.02	.00	.00	.00
Statisticians	.01	.01	.00	.01	.01	.02	.00	.00	.00
Engineering, science technicians	.02	.02	.04	.05	.05	.08	.01	.01	.01
Drafters	.01	.01	.01	.03	.02	.02	.01	.01	.01
Other engineering, science tech	.01	.01	.03	.02	.03	.07	.00	.00	.00
Medical workers, exc technicians	.01	.00	.00	.04	.03	.02	.04	.03	.08
Pharmacists	.00	.00	.00	.03	.03	.01	.02	.02	.07
Registered nurses	.01	.00	.00	.01	.01	.01	.01	.01	.01
Health technologists, technicians	.00	.00	.00	.01	.01	.03	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.01	.01	.03	.00	.00	.00
Technicians, except health	.00	.00	.00	.02	.03	.05	.00	.00	.00
Other technicians except health	.00	.00	.00	.02	.03	.05	.00	.00	.00
Computer specialists	.06	.06	.05	.12	.16	.15	.03	.05	.12
Computer programmers	.05	.05	.04	.06	.07	.08	.02	.03	.07
Computer systems analysts	.01	.01	.01	.05	.06	.05	.01	.02	.05
Other computer specialists	.00	.00	.00	.02	.03	.02	.00	.00	.00
Social scientists	.02	.04	.02	.01	.02	.03	.01	.02	.04
Economists	.02	.04	.02	.01	.02	.03	.01	.02	.04
Teachers	.03	.03	.01	.71	.53	.30	.00	.00	.00
Adult education	.03	.03	.01	.02	.04	.05	.00	.00	.00
Other teachers	.00	.00	.00	.68	.49	.25	.00	.00	.00
Writers, artists, entertainers	.10	.11	.14	.21	.27	.26	.05	.07	.06
Designers	.02	.03	.02	.09	.12	.09	.01	.01	.02
Editors and reporters	.05	.05	.08	.02	.02	.03	.01	.01	.01
Painters and sculptors	.00	.00	.00	.04	.06	.06	.02	.03	.03
Public relations specialists	.03	.03	.02	.04	.04	.06	.01	.01	.01
Other writers, artists, entertain	.01	.01	.02	.01	.02	.02	.00	.00	.00
Other professional and technical	.29	.33	.28	1.15	1.22	1.25	.37	.43	.34
Accountants	.10	.10	.13	.58	.63	.71	.22	.25	.18
Architects	.00	.00	.00	.03	.02	.04	.00	.00	.00
Lawyers	.01	.02	.03	.01	.02	.01	.01	.02	.02
Operations and systems research	.00	.00	.00	.04	.05	.07	.01	.01	.02
Personnel, labor relations wkrs	.17	.20	.10	.45	.47	.41	.14	.15	.12
Other research workers	.01	.01	.02	.02	.02	.03	.00	.00	.00
Managers, officials, proprietors	4.20	5.97	4.74	19.36	23.46	27.02	18.90	18.97	21.41
Buyers, sales, loan managers	1.96	1.86	1.73	4.79	5.18	6.76	3.32	3.47	4.42
Bank, financial managers	.01	.00	.00	.06	.07	.08	.03	.03	.03
Credit managers	.04	.02	.02	.20	.13	.12	.02	.01	.01
Buyers, wholesale, retail trade	.05	.05	.05	1.52	1.59	1.98	.53	.52	.71
Sales manager, retail trade	1.86	1.79	1.66	3.01	3.38	4.58	2.74	2.90	3.67
Other managers, officials, proprts	2.24	4.11	3.01	14.57	18.28	20.26	15.58	15.50	16.99
Office managers, other	.19	.19	.23	.24	.29	.40	.09	.10	.14
Restaurant, cafe, bar, managers	.02	.02	.02	.18	.15	.17	.19	.13	.13
Other managers, administrators	2.03	3.90	2.76	14.14	17.84	19.69	15.30	15.27	16.73

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Direct selling			Misc merchandise stores			Food and dairy stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	88.10	86.23	86.47	40.87	35.55	28.82	13.22	10.27	8.51
Advertising agents,sales worker	.05	.08	.06	.03	.04	.03	.01	.02	.01
Auctioneers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Demonstrators	15.78	16.13	16.91	.01	.02	.06	.04	.04	.06
Hucksters and peddlers	63.20	57.16	60.59	.00	.00	.00	.00	.00	.00
Newspaper carriers and vendors	4.42	7.53	4.45	.00	.00	.00	.00	.00	.00
Other sales wrkrs	4.65	5.32	4.44	40.83	35.49	28.72	13.16	10.22	8.43
Clerical workers	3.69	3.58	4.05	22.12	23.01	25.11	26.26	28.32	31.20
Stenographrs,typists,secretaries	1.18	1.09	1.39	2.09	2.09	2.67	.64	.67	.74
Other secretaries	.80	.77	1.07	1.30	1.43	1.90	.50	.55	.63
Stenographers	.02	.01	.01	.06	.03	.02	.01	.01	.01
Typists	.37	.30	.31	.74	.64	.75	.13	.12	.10
Office machine operators	.24	.22	.18	.60	.64	.59	.35	.38	.38
Bookkeeping and billing	.02	.01	.01	.07	.05	.06	.02	.01	.02
Calculating	.04	.02	.04	.04	.04	.06	.13	.11	.14
Computer and peripheral equip	.06	.10	.06	.14	.29	.27	.06	.13	.10
Duplicating	.00	.00	.00	.01	.01	.03	.00	.00	.00
Keypunch	.10	.07	.06	.29	.21	.13	.11	.10	.10
Other office machine operators	.03	.02	.01	.04	.04	.03	.02	.02	.02
Other clerical workers	2.27	2.28	2.49	19.42	20.28	21.86	25.27	27.27	30.08
Billing clerks	.04	.03	.05	.21	.27	.46	.04	.05	.08
Bookkeepers	.64	.70	.62	3.34	3.25	2.55	1.80	1.74	1.70
Cashiers	.17	.18	.24	8.07	8.65	8.74	19.68	21.51	24.25
Clerical supervisors, other	.05	.06	.07	.24	.25	.30	.05	.06	.07
Collectors, bill and account	.09	.08	.11	.09	.10	.12	.01	.01	.03
Counter clerks,exc food	.07	.08	.08	.61	.74	1.14	.31	.36	.50
Dispatchers,starters,vehicle	.01	.01	.01	.02	.02	.03	.03	.03	.03
Estimators,investigators,other	.15	.19	.14	.40	.54	.58	.08	.11	.10
Expeditors,production cntrolrs	.02	.02	.03	.04	.06	.09	.02	.03	.05
File clerks	.08	.05	.06	.29	.22	.17	.05	.05	.05
Mail handlers,exc post office	.07	.06	.06	.13	.14	.19	.07	.08	.10
Messengers and office helpers	.01	.02	.01	.06	.05	.05	.03	.02	.02
Payroll,timekeeping clerks	.03	.03	.02	.17	.18	.17	.09	.09	.07
Receptionists	.06	.05	.06	.17	.18	.21	.04	.04	.04
Shipping and receiving clerks	.15	.14	.21	.98	.95	1.04	.32	.29	.21
Statistical clerks	.10	.10	.09	.25	.29	.45	.04	.05	.07
Stock clerks and store keepers	.09	.08	.12	2.29	2.29	3.48	1.91	1.94	1.74
Telephone operators	.04	.03	.02	.17	.12	.07	.04	.02	.01
Weighers	.01	.01	.01	.00	.00	.00	.14	.17	.24
Misc clerical workers	.41	.39	.51	1.91	1.99	2.04	.50	.59	.75
Crafts and kindred workers	.77	.82	1.03	3.21	3.61	4.01	3.34	3.27	2.48
Construction crafts workers	.10	.10	.15	.40	.37	.33	.15	.14	.11
Carpenters and apprentices	.04	.04	.05	.24	.21	.10	.09	.07	.02
Electricians and apprentices	.01	.01	.03	.09	.09	.11	.02	.02	.02
Floor layers, exc tile setters	.01	.00	.00	.01	.01	.02	.00	.00	.00
Painters and apprentices	.03	.02	.02	.04	.04	.06	.03	.03	.06
Plumbers,pipefitters,aprentices	.02	.02	.02	.02	.02	.01	.01	.00	.00
Tile setters	.01	.01	.03	.01	.01	.04	.00	.00	.00
Blue collar worker supervisors	.29	.33	.35	1.02	1.07	1.05	.67	.70	.47
Metalworkg craft wrkrs,exc meca	.02	.02	.04	.03	.03	.06	.02	.02	.01
Machinists and apprentices	.02	.02	.04	.01	.02	.05	.01	.01	.01
Pattern and mcldmakers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mechanics,repairers,installers	.30	.30	.39	.94	1.07	1.52	.34	.42	.52
Air cond, heating, refrig mech	.01	.02	.02	.06	.09	.09	.06	.09	.08
Aircraft mechanics	.00	.00	.00	.01	.01	.03	.00	.00	.00
Auto body repairers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.09	.07	.08	.40	.41	.64	.15	.16	.20
Heavy equip mech, incl diesel	.04	.06	.10	.09	.14	.25	.09	.13	.20
Household appliance mechanics	.05	.05	.07	.18	.24	.34	.00	.00	.00
Office machine repairers	.00	.00	.00	.01	.01	.03	.00	.00	.00
Radio, television repairers	.00	.00	.00	.12	.09	.03	.00	.00	.00
Other mechanics and apprentices	.09	.10	.11	.06	.08	.11	.02	.02	.01
Printing trade crafts workers	.04	.03	.03	.08	.07	.06	.02	.02	.01
Compositors and typesetters	.02	.02	.03	.04	.04	.02	.01	.01	.00
Engravers exc photoengravers	.00	.00	.00	.03	.03	.02	.00	.00	.00
Press,plate printers,aprentices	.01	.01	.00	.01	.01	.02	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Direct selling			Misc merchandise stores			Food and dairy stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Transport,public util craft wkrs	.01	.01	.03	.00	.00	.00	.00	.00	.00
Elec pwr line instaler,repairer	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	.02	.03	.06	.75	1.00	1.00	2.14	1.98	1.37
Bakers	.00	.00	.00	.06	.06	.04	1.99	1.81	1.25
Cabinetmakers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Carpet installers	.00	.00	.00	.02	.03	.02	.00	.00	.00
Decorators, window dressers	.01	.02	.05	.36	.60	.51	.06	.09	.04
Inspectors, other	.00	.00	.00	.02	.02	.03	.02	.02	.01
Jewelers and watchmakers	.00	.00	.00	.10	.09	.08	.00	.00	.00
Opticians,lens grinder,polisher	.00	.00	.00	.04	.03	.03	.00	.00	.00
Shoe repairers	.00	.00	.00	.01	.00	.02	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.02	.02	.04	.02	.02	.03
Stationary engineers	.01	.00	.00	.02	.01	.01	.02	.02	.01
Tailors	.00	.00	.00	.08	.10	.18	.00	.00	.00
Upholsterers	.00	.00	.00	.02	.02	.04	.00	.00	.00
Other crafts workers	.01	.02	.01	.00	.00	.00	.02	.02	.03
Operatives	1.88	2.04	2.23	3.79	3.82	3.80	15.06	13.78	11.67
Operatives,except transport	.51	.51	.87	2.59	2.76	2.93	12.96	11.66	9.39
Semiskilled metalworking	.01	.01	.01	.05	.05	.09	.00	.01	.02
Lathe,milling mach operatives	.00	.00	.00	.02	.02	.02	.00	.00	.00
Welders and flamecutters	.01	.01	.01	.02	.03	.07	.00	.01	.02
Semiskilled packing, inspecting	.25	.21	.31	.31	.29	.20	3.35	3.32	3.00
Meat wrappers, retail trade	.00	.00	.00	.01	.00	.00	2.36	2.46	2.43
Packer,wrapper,exc meat,prodc	.25	.21	.31	.29	.27	.19	.96	.82	.53
Produce grdr, pkrs,exc fact,farm	.00	.00	.00	.01	.01	.01	.04	.05	.04
Other operatives, exc transport	.25	.28	.55	2.24	2.42	2.64	9.60	8.33	6.37
Assemblers	.00	.00	.22	.02	.02	.05	.00	.00	.00
Bottling,canning operatives	.00	.00	.00	.00	.00	.00	.01	.02	.02
Clothing ironers and pressers	.00	.00	.00	.06	.05	.10	.00	.00	.00
Cutting operatives, other	.00	.00	.00	.08	.11	.14	.02	.03	.04
Dressmakers, exc factory	.02	.02	.02	.76	.94	.74	.01	.01	.01
Garage wrkr,gas station atten	.00	.00	.00	.45	.30	.39	.11	.08	.09
Laundry,dry cleang oprs,other	.00	.00	.00	.04	.04	.07	.06	.06	.08
Meat cutters,butchers,exc mfg	.02	.02	.02	.29	.27	.18	8.42	6.93	5.13
Milleners	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mixing operatives	.00	.00	.00	.02	.03	.04	.01	.02	.01
Oilers,greasers,exc automobiles	.01	.02	.02	.02	.01	.01	.00	.00	.00
Painters, mfg articles	.01	.01	.00	.00	.00	.00	.00	.00	.00
Sewers and stitchers	.00	.00	.00	.12	.14	.25	.00	.00	.00
Furnace tendr,stkpr,exc metal	.01	.01	.01	.01	.01	.01	.00	.00	.00
Miscellaneous machine operatives	.07	.09	.10	.13	.17	.25	.26	.31	.32
Other operatives,exc transport	.11	.12	.16	.24	.32	.39	.67	.86	.67
Transport equipment operatives	1.37	1.54	1.36	1.20	1.06	.87	2.10	2.12	2.28
Bus drivers	.00	.00	.00	.02	.02	.00	.00	.00	.00
Delivery and route workers	1.10	1.23	1.04	.45	.43	.44	1.07	.97	.76
Fork lift,tow motor operatives	.03	.03	.03	.07	.08	.11	.22	.30	.41
Parking attendants	.00	.00	.00	.00	.00	.00	.01	.01	.01
Taxicab drivers, chauffeurs	.01	.01	.01	.02	.02	.01	.01	.01	.01
Truck drivers	.23	.27	.28	.63	.51	.31	.79	.83	1.10
Service workers	.34	.33	.32	4.09	3.27	3.45	2.53	2.09	1.79
Cleaning service workers	.09	.07	.08	1.19	1.21	1.15	.76	.80	.80
Bldg interior cleaners, other	.02	.02	.02	.34	.36	.32	.28	.31	.31
Janitors and sextons	.07	.06	.06	.86	.85	.83	.48	.49	.49
Food service workers	.24	.26	.23	1.76	1.24	1.52	1.61	1.15	.84
Bartenders	.00	.00	.00	.03	.02	.01	.01	.01	.01
waiters' assistants	.00	.00	.00	.09	.12	.39	.03	.04	.10
Cooks,exc private households	.09	.11	.03	.48	.30	.19	.42	.27	.11
Dishwashers	.02	.03	.02	.08	.06	.12	.09	.07	.09
Food counter,fountain workers	.03	.04	.10	.38	.35	.33	.29	.30	.21
waiters	.03	.02	.02	.42	.19	.04	.57	.29	.07
Other food serv wkrs,exc privt	.06	.07	.06	.28	.21	.45	.20	.18	.25
Health service workers	.00	.00	.00	.00	.00	.00	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Direct selling			Misc merchandise stores			Food and dairy stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.00	.00	.00	.78	.47	.50	.05	.04	.03
Attendants, personal serv, other	.00	.00	.00	.05	.04	.06	.00	.00	.00
Barbers	.00	.00	.00	.38	.04	.05	.00	.00	.00
Child care workers, exc private	.00	.00	.00	.04	.02	.05	.01	.00	.01
Elevator operators	.00	.00	.00	.03	.02	.01	.00	.00	.00
Hairdressers and cosmetologists	.00	.00	.00	.25	.31	.31	.01	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.05	.03	.03	.03	.02	.01
Protective service workers	.01	.01	.01	.36	.36	.28	.11	.10	.12
Firefighters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Guards	.01	.01	.01	.29	.30	.24	.10	.09	.12
Police and detectives	.00	.00	.00	.05	.05	.03	.01	.01	.00
Laborers, except farm	.45	.42	.62	4.17	4.87	5.42	20.14	22.63	22.25
Carpenter helpers	.00	.00	.00	.03	.02	.03	.01	.01	.02
Constr labr, exc carpenter helpr	.05	.05	.09	.03	.04	.05	.01	.01	.02
Fishers, hunters, trappers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Freight and material handlers	.13	.13	.18	.42	.51	.73	.53	.61	.78
Gardenrs, groundkeepers, exc farm	.01	.01	.03	.03	.04	.06	.01	.02	.02
Timbercutting, logging workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Stock handlers	.14	.13	.16	3.05	3.74	4.09	19.15	21.58	21.12
Teamsters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	.02	.02	.03	.01	.02	.01	.06	.08	.07
Warehouse labcrers, other	.08	.07	.11	.51	.42	.37	.27	.22	.10
Other laborers	.02	.02	.03	.07	.07	.07	.08	.08	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grocery stores			Dairy product stores			Retail bakeries		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.59	.70	.74	.69	.91	.96	.16	.20	.31
Engineers, technical	.03	.04	.07	.00	.00	.00	.00	.00	.00
Industrial	.01	.02	.03	.00	.00	.00	.00	.00	.00
Mechanical	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other engineers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Engineering, science technicians	.01	.01	.01	.12	.17	.27	.01	.01	.02
Agricultural, biol, exc health	.00	.00	.00	.08	.12	.20	.00	.00	.00
Drafters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other engineering, science tech	.00	.00	.00	.03	.04	.06	.01	.01	.01
Medical workers, exc technicians	.04	.03	.09	.00	.00	.00	.00	.00	.00
Pharmacists	.03	.02	.08	.00	.00	.00	.00	.00	.00
Computer specialists	.04	.05	.13	.05	.07	.06	.01	.01	.08
Computer programers	.03	.04	.07	.03	.04	.04	.01	.01	.04
Computer systems analysts	.01	.02	.05	.00	.00	.00	.00	.00	.04
Other computer specialists	.00	.00	.00	.01	.02	.02	.00	.00	.00
Social scientists	.01	.02	.04	.01	.02	.01	.00	.00	.03
Economists	.01	.02	.04	.01	.02	.01	.00	.00	.03
Writers, artists, entertainers	.05	.07	.07	.04	.04	.01	.02	.03	.02
Designers	.01	.01	.02	.00	.00	.00	.01	.01	.01
Editors and reporters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Painters and sculptors	.02	.04	.03	.00	.00	.00	.00	.00	.00
Public relations specialists	.01	.01	.01	.04	.04	.01	.01	.01	.01
Other professional and technical	.40	.46	.35	.48	.63	.61	.11	.15	.16
Accountants	.23	.26	.19	.30	.41	.42	.06	.08	.11
Lawyers	.01	.02	.02	.01	.01	.01	.00	.00	.00
Operations and systems research	.01	.02	.03	.00	.00	.00	.00	.00	.00
Personnel, labor relations wkrs	.15	.16	.12	.17	.20	.18	.05	.06	.05
Managers, officials, proprietors	19.99	19.69	21.99	17.87	21.15	26.70	7.36	8.98	10.49
Buyers, sales, loan managers	3.62	3.75	4.68	1.82	2.07	2.60	.78	.89	1.07
Bank, financial managers	.03	.04	.03	.02	.02	.01	.02	.01	.01
Credit managers	.02	.01	.01	.07	.04	.04	.02	.01	.01
Buyers, wholesale, retail trade	.53	.52	.69	.14	.19	.33	.08	.09	.14
Sales manager, retail trade	3.03	3.19	3.95	1.59	1.82	2.22	.67	.77	.91
Other managers, officials, proprts	16.36	15.93	17.31	16.05	19.08	24.10	6.57	8.10	9.42
Office managers, other	.08	.10	.13	.24	.29	.36	.10	.11	.16
Restaurant, cafe, bar, managers	.20	.14	.13	.16	.11	.07	.06	.06	.09
Other managers, administrators	16.08	15.69	17.04	15.66	18.68	23.67	6.42	7.93	9.17
Sales workers	9.80	6.93	5.35	38.32	34.69	34.86	33.08	31.16	34.67
Advertising agents, sales worker	.01	.02	.01	.01	.01	.01	.01	.01	.01
Demonstrators	.04	.03	.04	.12	.14	.28	.02	.05	.22
Other sales workers	9.75	6.88	5.29	38.19	34.54	34.56	33.05	31.10	34.44
Clerical workers	29.52	31.68	34.17	10.09	11.69	12.25	4.97	5.78	6.16
Stenographers, typists, secretaries	.65	.67	.72	1.01	1.14	1.19	.43	.48	.59
Legal secretaries	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other secretaries	.51	.54	.62	.88	1.02	1.11	.36	.41	.52
Stenographers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Typists	.13	.12	.10	.11	.09	.07	.07	.06	.07
Office machine operators	.37	.40	.39	.56	.66	.88	.22	.27	.30
Bookkeeping and billing	.02	.01	.02	.05	.03	.03	.01	.01	.02
Calculating	.14	.12	.15	.18	.18	.28	.10	.09	.14
Computer and peripheral equip	.06	.14	.10	.07	.17	.13	.04	.12	.12
Keypunch	.12	.11	.10	.22	.25	.43	.05	.04	.03
Other office machine operators	.02	.03	.02	.05	.03	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grocery stores			Dairy product stores			Retail bakeries		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	28.49	30.61	33.06	8.52	9.90	10.18	4.32	5.03	5.26
Billing clerks	.04	.05	.08	.14	.22	.21	.03	.05	.10
Bookkeepers	1.84	1.75	1.68	2.81	3.01	3.13	1.11	1.16	1.27
Cashiers	22.53	24.53	27.01	3.32	4.13	4.12	1.80	2.21	2.19
Clerical supervisors, other	.06	.07	.07	.01	.02	.02	.01	.01	.01
Collectors, bill and account	.01	.01	.02	.03	.02	.01	.00	.00	.00
Counter clerks, exc food	.32	.37	.51	.41	.53	.71	.25	.32	.29
Dispatchers, starters, vehicle	.03	.03	.03	.03	.03	.04	.01	.01	.03
Enumerators and interviewers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Estimators, investigators, other	.08	.11	.10	.23	.31	.34	.04	.06	.08
Expeditors, production controls	.03	.03	.06	.04	.05	.08	.02	.02	.04
File clerks	.05	.05	.05	.05	.04	.02	.02	.01	.01
Mail handlers, exc post office	.07	.08	.11	.02	.02	.03	.04	.04	.08
Messengers and office helpers	.03	.02	.01	.06	.04	.09	.01	.01	.01
Payroll, timekeeping clerks	.09	.10	.06	.10	.11	.10	.05	.07	.06
Receptionists	.04	.04	.04	.11	.11	.11	.02	.02	.04
Shipping and receiving clerks	.33	.28	.19	.35	.38	.36	.36	.38	.33
Statistical clerks	.04	.05	.06	.09	.06	.01	.07	.09	.10
Stock clerks and store keepers	2.18	2.21	1.92	.36	.41	.38	.18	.21	.18
Telephone operators	.04	.02	.01	.07	.03	.01	.04	.02	.01
Weighers	.15	.18	.26	.02	.03	.04	.05	.07	.07
Misc clerical workers	.54	.63	.79	.27	.33	.38	.20	.26	.36
Crafts and kindred workers	1.53	1.52	1.13	4.26	4.86	4.42	30.55	29.41	25.18
Construction crafts workers	.15	.14	.10	.24	.22	.16	.13	.14	.13
Carpenters and apprentices	.09	.07	.02	.07	.05	.01	.02	.02	.01
Bulldozer operators	.00	.00	.00	.00	.00	.00	.05	.06	.07
Electricians and apprentices	.02	.02	.02	.11	.11	.11	.03	.03	.02
Painters and apprentices	.03	.03	.06	.06	.06	.05	.02	.02	.02
Blue collar worker supervisors	.63	.63	.39	1.72	2.02	1.64	1.11	1.37	1.18
Metalworkg craft wkrs, exc meca	.01	.01	.00	.00	.00	.00	.11	.12	.15
Blacksmiths	.00	.00	.00	.00	.00	.00	.02	.01	.00
Machinists and apprentices	.01	.00	.00	.00	.00	.00	.07	.09	.14
Millwrights	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mechanics, repairers, installers	.25	.30	.38	1.94	2.30	2.41	.97	1.24	1.78
Air cond, heating, refig meca	.07	.09	.08	.25	.35	.31	.01	.01	.01
Auto accessories installers	.00	.00	.00	.00	.00	.00	.09	.08	.07
Auto body repairers	.00	.00	.00	.08	.07	.06	.04	.03	.03
Auto mechanics and apprentices	.10	.10	.13	1.16	1.31	1.49	.46	.56	.80
Farm implement mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Heavy equip mech, incl diesel	.07	.09	.16	.35	.46	.49	.31	.48	.80
Household appliance mechanics	.00	.00	.00	.02	.03	.04	.01	.02	.03
Radio, television repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other mechanics and apprentices	.01	.01	.01	.08	.06	.02	.03	.03	.03
Printing trade crafts workers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Compositors and typesetters	.01	.01	.00	.00	.00	.00	.00	.00	.00
Press, plate printers, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	.46	.43	.24	.36	.32	.20	28.23	26.55	21.95
Bakers	.33	.28	.14	.19	.16	.08	27.96	26.26	21.61
Cabinetmakers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Carpet installers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Decorators, window dressers	.06	.08	.04	.07	.09	.11	.06	.06	.01
Inspectors, other	.02	.02	.01	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.02	.02	.03	.02	.02	.01	.00	.00	.00
Stationary engineers	.02	.02	.01	.09	.05	.01	.02	.02	.01
Other crafts workers	.01	.01	.02	.00	.00	.00	.15	.17	.29
Operatives	13.64	12.13	10.44	12.35	11.78	9.18	14.22	15.85	15.62
Operatives, except transport	12.07	10.50	8.47	2.75	3.37	4.07	9.60	11.21	10.47
Semiskilled metalworking	.01	.01	.02	.01	.01	.01	.00	.00	.00
Welders and flamecutters	.01	.01	.02	.01	.01	.01	.00	.00	.00
Semiskilled packing, inspecting	3.43	3.37	3.02	.44	.46	.37	1.92	1.90	1.40
Meat wrappers, retail trade	2.61	2.71	2.63	.00	.00	.00	.01	.01	.01
Packer, wrapper, exc meat, prodce	.81	.65	.39	.43	.45	.36	1.91	1.89	1.39
Produce grdr, pkrs, exc fact, farm	.01	.01	.01	.01	.01	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Grocery stores			Dairy product stores			Retail bakeries		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	8.64	7.13	5.43	2.30	2.89	3.70	7.68	9.30	9.07
Bottling, canning operatives	.00	.00	.00	.41	.57	.84	.00	.00	.00
Cutting operatives, other	.02	.02	.03	.00	.00	.00	.13	.17	.20
Dressmakers, exc factory	.01	.01	.01	.00	.00	.00	.00	.00	.00
Garage wrkr, gas station atten	.11	.08	.09	.04	.04	.05	.01	.01	.01
Laundry, dry cleang oprs, other	.06	.06	.08	.00	.00	.00	.00	.00	.00
Meat cutters, butchers, exc mfg	8.12	6.57	4.92	.03	.02	.00	.08	.07	.06
Mixing operatives	.00	.00	.00	.06	.07	.09	.13	.18	.18
Oilers, greasers, exc automobiles	.00	.00	.00	.00	.00	.00	.02	.01	.01
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.02	.02	.01
Furnace tendr, stokr, exc metal	.00	.00	.00	.02	.01	.01	.00	.00	.00
Miscellaneous machine operatves	.06	.07	.09	1.47	1.82	2.28	1.87	2.12	2.15
Other operatives, exc transport	.24	.30	.23	.26	.36	.43	5.42	6.73	6.45
Transport equipment operatives	1.57	1.63	1.98	9.61	8.41	5.11	4.62	4.65	5.15
Bus drivers	.00	.00	.00	.01	.02	.01	.00	.00	.00
Delivery and route workers	.62	.52	.40	7.56	6.47	3.98	3.65	3.67	3.93
Fork lift, tow motor operatives	.25	.33	.44	.10	.13	.15	.00	.00	.00
Parking attendants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.01	.01	.01	.02	.02	.01	.00	.00	.00
Truck drivers	.68	.74	1.11	1.93	1.78	.95	.97	.98	1.22
Service workers	1.87	1.51	1.39	12.17	9.96	7.15	8.24	6.97	6.20
Cleaning service workers	.64	.67	.69	.94	1.02	.93	2.15	2.38	2.31
Bldg interior cleaners, other	.24	.26	.26	.32	.34	.33	.84	.98	.90
Janitors and sextons	.41	.41	.43	.62	.68	.60	1.31	1.40	1.40
Food service workers	1.05	.70	.55	11.16	8.89	6.20	5.99	4.51	3.83
Bartenders	.01	.01	.00	.00	.00	.00	.02	.01	.01
Waiters' assistants	.03	.04	.09	.14	.21	.50	.05	.09	.25
Cooks, exc private households	.36	.22	.07	.89	.67	.40	1.03	.80	.52
Dishwashers	.05	.04	.05	.23	.21	.41	.66	.51	.70
Food counter, fountain workers	.14	.13	.09	4.63	4.88	3.82	.71	.80	.79
Waiters	.29	.12	.02	5.03	2.66	.67	3.03	1.81	.81
Other food serv wkrs, exc privt	.18	.15	.22	.25	.26	.41	.49	.48	.77
Health service workers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Personal service workers	.04	.03	.02	.04	.03	.02	.07	.05	.04
Attendants, personal serv, other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Child care workers, exc private	.01	.01	.01	.00	.00	.00	.00	.00	.00
Hairdressers and cosmetologists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.02	.02	.01	.03	.02	.01	.06	.05	.04
Protective service workers	.12	.11	.13	.03	.02	.01	.04	.04	.02
Guards	.11	.10	.13	.03	.02	.01	.03	.03	.01
Police and detectives	.01	.01	.00	.00	.00	.00	.01	.01	.01
Laborers, except farm	23.07	25.85	24.80	4.25	4.96	4.47	1.43	1.65	1.38
Carpenter helpers	.01	.01	.02	.00	.00	.00	.01	.01	.01
Constr labr, exc carpenter help	.01	.01	.02	.01	.02	.01	.00	.00	.00
Fishers, hunters, trappers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Freight and material handlers	.50	.56	.77	1.31	1.63	1.64	.48	.51	.43
Garbage collectors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Gardens, groundkeepers, exc farm	.01	.01	.02	.03	.04	.02	.00	.00	.00
Stock handlers	22.16	24.91	23.74	.95	1.26	1.11	.53	.65	.54
Teamsters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Vehicle washers, equip cleaners	.03	.04	.05	.31	.38	.27	.33	.42	.36
Warehouse labrcers, other	.30	.25	.11	.09	.08	.03	.04	.04	.02
Other laborers	.03	.03	.05	1.55	1.57	1.40	.03	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food stores, other			Auto dealers, gas stations			Motor vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.37	.49	.52	.61	.84	.74	.79	.91	.70
Engineers, technical	.00	.00	.00	.03	.03	.04	.03	.02	.02
Other engineers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Life and physical scientists	.02	.03	.03	.00	.00	.00	.00	.00	.00
Agricultural	.02	.02	.01	.00	.00	.00	.00	.00	.00
Biological	.01	.02	.02	.00	.00	.00	.00	.00	.00
Engineering, science technicians	.00	.00	.00	.02	.03	.04	.01	.01	.01
Drafters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Electrical and electronic	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other engineering, science tech	.00	.00	.00	.01	.02	.02	.00	.00	.00
Medical workers, exc technicians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Dietitians	.01	.01	.01	.00	.00	.00	.00	.00	.00
Technicians, except health	.01	.01	.01	.02	.04	.04	.03	.04	.03
Airplane pilots	.00	.00	.00	.01	.02	.03	.00	.00	.00
Other technicians except health	.01	.01	.01	.01	.02	.01	.02	.04	.03
Computer specialists	.01	.02	.06	.01	.01	.01	.01	.01	.01
Computer programmers	.00	.00	.03	.01	.01	.01	.01	.01	.01
Computer systems analysts	.01	.02	.03	.00	.00	.00	.00	.00	.00
Social scientists	.03	.03	.04	.01	.01	.01	.01	.02	.02
Economists	.03	.03	.04	.01	.01	.01	.01	.02	.02
Teachers	.02	.02	.02	.02	.02	.02	.01	.01	.01
Adult education	.02	.02	.02	.01	.01	.01	.01	.01	.01
Other teachers	.00	.00	.00	.01	.01	.01	.01	.00	.00
Writers, artists, entertainers	.04	.05	.03	.04	.07	.06	.05	.07	.05
Painters and sculptors	.01	.02	.01	.01	.01	.01	.00	.00	.00
Public relations specialists	.02	.03	.02	.03	.04	.05	.04	.06	.05
Other professional and technical	.23	.31	.33	.46	.62	.51	.63	.73	.56
Accountants	.13	.18	.19	.38	.50	.42	.57	.66	.51
Foresters and conservationists	.01	.01	.01	.00	.00	.00	.00	.00	.00
Home management advisors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lawyers	.00	.00	.00	.01	.02	.01	.00	.00	.00
Operations and systems research	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personnel, labor relations wkrs	.08	.12	.11	.06	.09	.07	.06	.07	.05
Managers, officials, proprietors	15.55	17.99	20.87	20.27	21.88	22.83	16.81	18.41	14.84
Buyers, sales, loan managers	2.14	2.44	3.65	2.27	2.70	2.94	3.49	3.76	3.89
Bank, financial managers	.01	.01	.01	.09	.11	.12	.17	.19	.20
Credit managers	.01	.01	.01	.21	.16	.17	.15	.09	.06
Buyers, wholesale, retail trade	1.01	1.07	1.65	.22	.26	.23	.33	.32	.25
Sales manager, retail trade	1.11	1.35	1.98	1.75	2.17	2.42	2.85	3.16	3.38
Other managers, officials, proprts	13.41	15.55	17.22	18.01	19.18	19.90	13.31	14.65	10.95
Office managers, other	.11	.14	.16	.49	.64	.67	.85	1.00	.99
Restaurant, cafe, bar, managers	.09	.08	.07	.01	.02	.02	.01	.01	.01
Other managers, administrators	13.20	15.32	16.99	17.50	18.52	19.20	12.44	13.64	9.95
Sales workers	33.09	28.89	29.79	13.34	13.97	14.81	21.15	20.02	19.48
Advertising agents, sales worker	.01	.02	.01	.01	.01	.01	.01	.02	.01
Auctioneers	.00	.00	.00	.00	.00	.01	.01	.01	.01
Demonstrators	.06	.08	.18	.00	.00	.00	.00	.00	.00
Other sales workers	33.02	28.80	29.60	13.32	13.96	14.80	21.13	19.99	19.46
Clerical workers	7.25	8.67	10.06	8.56	9.83	9.52	11.16	11.30	9.60
Stenographers, typists, secretaries	.68	.81	1.05	1.79	2.11	2.08	2.61	2.60	2.18
Other secretaries	.52	.66	.91	1.42	1.75	1.81	2.00	2.08	1.81
Stenographers	.02	.01	.01	.03	.02	.01	.03	.02	.01
Typists	.14	.14	.13	.34	.33	.25	.57	.50	.37

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food stores, other			Auto dealers, gas stations			Motor vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.12	.13	.16	.15	.16	.18	.18	.16	.15
Bookkeeping and billing	.03	.02	.06	.05	.04	.05	.08	.05	.06
Calculating	.01	.01	.02	.02	.02	.04	.00	.00	.00
Computer and peripheral equip	.01	.03	.03	.02	.04	.03	.02	.05	.03
Keypunch	.04	.04	.03	.05	.05	.05	.06	.06	.05
Other office machine operators	.02	.02	.02	.01	.01	.01	.01	.01	.01
Other clerical workers	6.45	7.73	8.85	6.63	7.57	7.27	8.38	8.54	7.27
Billing clerks	.06	.07	.09	.11	.15	.16	.17	.21	.21
Bookkeepers	1.69	1.88	2.22	3.97	4.27	3.94	4.66	4.57	3.91
Cashiers	2.96	3.72	3.96	.49	.64	.83	.61	.68	.71
Clerical supervisors, other	.03	.05	.10	.04	.06	.07	.04	.05	.04
Collectors, bill and account	.03	.05	.09	.05	.07	.08	.05	.05	.05
Counter clerks, exc food	.20	.25	.34	.10	.14	.18	.13	.16	.17
Dispatchers, starters, vehicle	.02	.03	.04	.08	.10	.12	.13	.16	.19
Estimators, investigators, other	.07	.09	.07	.28	.40	.30	.48	.62	.46
Expeditors, production controls	.01	.01	.01	.04	.06	.08	.07	.08	.10
File clerks	.09	.08	.07	.12	.13	.14	.20	.18	.18
Mail handlers, exc post office	.06	.07	.07	.03	.04	.04	.02	.02	.02
Messengers and office helpers	.02	.02	.02	.05	.05	.04	.10	.08	.06
Payroll, timekeeping clerks	.06	.08	.09	.05	.07	.05	.08	.08	.05
Receptionists	.09	.09	.07	.14	.16	.12	.25	.25	.18
Shipping and receiving clerks	.21	.24	.29	.12	.13	.14	.10	.08	.04
Statistical clerks	.04	.05	.10	.08	.11	.13	.09	.11	.11
Stock clerks and store keepers	.38	.42	.57	.34	.41	.41	.43	.44	.37
Telephone operators	.03	.02	.01	.16	.10	.06	.33	.18	.12
Weighers	.11	.14	.14	.00	.00	.00	.00	.00	.00
Misc clerical workers	.33	.38	.50	.36	.48	.38	.47	.54	.33
Crafts and kindred workers	1.62	1.99	2.37	25.97	27.28	31.09	39.50	38.56	45.33
Construction crafts workers	.12	.13	.16	.31	.37	.30	.25	.27	.22
Carpenters and apprentices	.05	.04	.01	.15	.17	.11	.05	.04	.01
Bulldozer operators	.01	.02	.03	.00	.00	.01	.00	.00	.00
Electricians and apprentices	.01	.01	.01	.02	.02	.03	.01	.00	.00
Painters and apprentices	.03	.04	.10	.10	.13	.13	.18	.21	.20
Plumbers, pipefitters, apprentices	.01	.01	.01	.02	.03	.02	.00	.00	.00
Blue collar worker supervisors	.55	.69	.72	.63	.79	.69	.89	.93	.67
Metalworkg craft wrkrs, exc mech	.05	.05	.05	.13	.16	.16	.08	.07	.05
Machinists and apprentices	.03	.04	.04	.12	.15	.15	.06	.06	.05
Mechanics, repairers, installers	.53	.69	1.04	24.59	25.50	29.29	38.17	37.20	44.33
Air cond, heating, refrig meca	.02	.05	.09	.04	.07	.05	.01	.01	.01
Aircraft mechanics	.00	.00	.00	.04	.05	.07	.01	.01	.01
Auto accessories installers	.01	.00	.00	.09	.11	.11	.07	.07	.05
Auto body repairers	.09	.08	.09	3.97	3.43	4.02	8.95	7.35	9.21
Auto mechanics and apprentices	.28	.33	.45	19.71	20.68	23.44	28.93	29.52	34.69
Farm implement mechanics	.00	.00	.00	.01	.01	.01	.01	.01	.02
Heavy equip mech, incl diesel	.08	.14	.28	.22	.34	.53	.12	.17	.27
Household appliance mechanics	.01	.02	.04	.03	.04	.05	.01	.00	.00
Radio, television repairers	.00	.00	.00	.03	.03	.02	.02	.02	.01
Other mechanics and apprentices	.05	.07	.09	.46	.75	1.00	.04	.05	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food stores, other			Auto dealers, gas stations			Motor vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.37	.44	.41	.31	.46	.65	.10	.10	.08
Bakers	.18	.19	.15	.01	.01	.01	.03	.02	.01
Crane, derrick, hoist operator	.01	.01	.01	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.07	.13	.16	.02	.04	.05	.00	.01	.00
Glaziers	.00	.00	.00	.02	.04	.04	.03	.03	.03
Inspectors, other	.04	.05	.04	.01	.01	.01	.01	.01	.01
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.03	.02	.01	.02	.02	.01	.00	.00	.00
Upholsterers	.00	.00	.00	.02	.02	.03	.03	.02	.02
Other crafts workers	.02	.02	.01	.19	.31	.48	.00	.00	.00
Operatives	36.00	35.19	29.88	28.24	22.61	17.78	5.23	4.96	5.00
Operatives, except transport	31.39	30.56	25.91	26.57	20.69	15.76	3.85	3.62	3.80
Semiskilled metalworking	.00	.00	.00	.08	.11	.13	.06	.05	.04
Welders and flamecutters	.00	.00	.00	.06	.08	.11	.04	.04	.03
Semiskilled packing, inspecting	4.59	4.95	5.04	.06	.07	.07	.02	.02	.01
Meat wrappers, retail trade	1.97	2.15	2.15	.00	.00	.00	.00	.00	.00
Packer, wrapper, exc meat, prodce	2.19	2.22	2.24	.06	.07	.07	.02	.02	.01
Produce grdr, pkrs, exc fact, farm	.43	.58	.65	.00	.00	.00	.00	.00	.00
Other operatives, exc transport	26.80	25.61	20.87	26.43	20.52	15.56	3.77	3.55	3.75
Assemblers	.00	.00	.00	.02	.04	.06	.00	.00	.00
Bottling, canning operatives	.06	.08	.13	.00	.00	.00	.00	.00	.00
Clothing ironers and pressers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.02	.02	.01	.01	.01	.01	.01	.00	.00
Dressmakers, exc factory	.04	.06	.08	.00	.00	.00	.00	.00	.00
Filter, polisher, sander, buffer	.00	.00	.00	.01	.02	.03	.02	.02	.03
Garage wrkr, gas station atten	.28	.25	.30	25.13	18.80	13.62	1.88	1.49	1.64
Laundry, dry cleang oprs, other	.08	.10	.09	.00	.00	.00	.00	.00	.00
Meat cutters, butchers, exc mfg	23.09	20.56	15.60	.01	.02	.02	.00	.00	.00
Mixing operatives	.01	.01	.01	.00	.01	.01	.00	.00	.00
Oilers, greasers, exc automobiles	.01	.01	.01	.01	.01	.01	.02	.02	.01
Painters, mfg articles	.00	.00	.00	.62	.69	.73	1.40	1.45	1.60
Sawyers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sewers and stitchers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.01	.01	.01	.00	.01	.00	.00	.00	.00
Miscellaneous machine operatves	1.06	1.41	1.99	.27	.45	.59	.03	.04	.04
Other operatives, exc transport	2.12	3.09	2.59	.33	.48	.46	.42	.53	.43
Transport equipment operatives	4.61	4.63	3.97	1.67	1.91	2.02	1.38	1.34	1.20
Bus drivers	.01	.01	.01	.01	.02	.00	.02	.02	.00
Delivery and route workers	2.77	2.82	2.83	.58	.69	.72	.38	.34	.30
Fork lift, tow motor operatives	.10	.16	.25	.02	.04	.06	.02	.03	.03
Parking attendants	.00	.00	.00	.08	.09	.06	.17	.19	.14
Taxicab drivers, chauffeurs	.02	.02	.01	.15	.16	.13	.32	.31	.27
Truck drivers	1.71	1.62	.88	.82	.92	1.05	.48	.46	.47
Service workers	3.22	3.03	2.77	.81	.87	.75	1.26	1.21	.97
Cleaning service workers	.93	1.11	1.15	.66	.73	.57	1.07	1.06	.78
Bldg interior cleaners, other	.35	.45	.54	.17	.21	.20	.24	.26	.20
Janitors and sextons	.58	.66	.61	.49	.52	.37	.83	.79	.58
Food service workers	2.15	1.76	1.39	.06	.05	.06	.05	.04	.05
Bartenders	.01	.01	.01	.00	.00	.00	.00	.00	.00
Waiters' assistants	.01	.02	.03	.00	.00	.00	.00	.00	.00
Cooks, exc private households	.47	.33	.14	.02	.02	.02	.01	.01	.01
Dishwashers	.09	.07	.09	.00	.00	.01	.00	.00	.00
Food counter, fountain workers	.69	.74	.77	.00	.01	.01	.01	.01	.02
Waiters	.65	.36	.11	.02	.01	.01	.02	.01	.01
Other food serv wkrs, exc privt	.24	.23	.25	.01	.01	.01	.01	.01	.01
Health service workers	.01	.01	.03	.02	.02	.02	.05	.04	.05
Health aides, except nursing	.01	.01	.03	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	.02	.01	.01	.04	.03	.03
Practical nurses	.00	.00	.00	.00	.00	.01	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Food stores, other			Auto dealers, gas stations			Motor vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.08	.07	.08	.02	.02	.02	.01	.00	.00
Attendants, personal serv, other	.05	.04	.05	.00	.00	.00	.00	.00	.00
Elevator operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.03	.02	.02	.01	.01	.01	.00	.00	.00
Protective service workers	.06	.08	.13	.06	.06	.08	.09	.08	.10
Guards	.06	.08	.13	.05	.05	.08	.09	.07	.10
Laborers, except farm	2.90	3.75	3.74	2.21	2.73	2.48	4.11	4.63	4.07
Animal caretakers, exc farm	.04	.07	.09	.00	.00	.00	.00	.00	.00
Carpenter helpers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Constr labr, exc carpenter help	.03	.04	.09	.04	.05	.04	.06	.05	.05
Fishers, hunters, trappers	.05	.05	.04	.00	.00	.00	.00	.00	.00
Freight and material handlers	.79	1.04	1.09	.08	.11	.17	.04	.04	.05
Gardenrs, groundkeepers, exc farm	.04	.06	.05	.02	.02	.04	.01	.02	.02
Longshore workers, stevedores	.01	.01	.02	.00	.00	.00	.00	.00	.00
Stock handlers	1.38	1.88	1.75	.19	.30	.35	.12	.14	.12
Vehicle washers, equip cleaners	.14	.17	.18	1.76	2.09	1.70	3.77	4.27	3.73
Warehouse labcrers, other	.13	.13	.08	.05	.07	.08	.01	.01	.01
Other laborers	.30	.29	.34	.08	.09	.09	.09	.09	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Tire, battery, accessory dealers			Gasoline service stations			Misc vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.82	1.05	1.00	.32	.56	.51	1.27	1.45	1.31
Engineers, technical	.09	.11	.13	.01	.02	.02	.03	.02	.03
Electrical	.03	.03	.04	.00	.00	.00	.00	.00	.00
Industrial	.03	.04	.05	.00	.00	.00	.00	.00	.00
Mechanical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Sales	.01	.01	.01	.00	.00	.00	.02	.01	.01
Other engineers	.02	.02	.03	.01	.02	.02	.01	.01	.02
Engineering, science technicians	.04	.06	.10	.01	.03	.02	.14	.18	.21
Drafters	.02	.02	.03	.00	.00	.00	.03	.03	.02
Electrical and electronic	.02	.03	.06	.00	.00	.00	.08	.09	.11
Other engineering, science tech	.01	.01	.01	.01	.03	.02	.03	.06	.07
Technicians, except health	.01	.02	.01	.00	.00	.00	.25	.34	.33
Airplane pilots	.00	.00	.00	.00	.00	.00	.23	.31	.31
Radio operators	.01	.02	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.00	.00	.00	.00	.00	.00	.02	.02	.01
Computer specialists	.03	.04	.03	.00	.00	.00	.00	.00	.00
Computer programmers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Computer systems analysts	.02	.02	.01	.00	.00	.00	.00	.00	.00
Social scientists	.01	.01	.01	.00	.00	.00	.01	.01	.01
Economists	.01	.01	.01	.00	.00	.00	.01	.01	.01
Teachers	.01	.01	.01	.01	.01	.01	.20	.16	.09
Adult education	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other teachers	.00	.00	.00	.00	.00	.00	.20	.15	.08
Writers, artists, entertainers	.09	.13	.11	.02	.04	.04	.10	.11	.12
Designers	.01	.01	.01	.00	.00	.00	.03	.03	.03
Editors and reporters	.01	.02	.01	.00	.00	.00	.01	.01	.01
Painters and sculptors	.04	.08	.07	.00	.00	.00	.00	.00	.00
Public relations specialists	.01	.01	.01	.01	.03	.04	.06	.07	.08
Other professional and technical	.55	.67	.60	.26	.46	.41	.54	.64	.53
Accountants	.39	.48	.42	.18	.31	.30	.48	.56	.47
Lawyers	.00	.00	.00	.01	.04	.03	.03	.02	.01
Operations and systems research	.01	.03	.04	.01	.02	.02	.00	.00	.00
Personnel, labor relations wkrs	.14	.17	.14	.05	.08	.05	.04	.05	.06
Managers, officials, proprietors	21.70	24.85	22.49	22.97	24.64	33.42	24.12	24.52	21.09
Buyers, sales, loan managers	4.41	4.33	4.71	.32	.42	.38	4.81	4.77	5.03
Bank, financial managers	.11	.13	.14	.01	.01	.01	.10	.11	.09
Credit managers	1.24	.82	.81	.04	.03	.03	.06	.04	.05
Buyers, wholesale, retail trade	.52	.55	.51	.03	.04	.04	.39	.38	.40
Sales manager, retail trade	2.54	2.83	3.25	.24	.33	.31	4.26	4.24	4.49
Other managers, officials, proprts	17.30	20.52	17.78	22.65	24.22	33.04	19.30	19.75	16.05
Mgrs, superintendents, building	.01	.02	.04	.00	.00	.00	.00	.00	.00
Office managers, other	.58	.72	.75	.08	.12	.15	.77	.84	.99
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.07	.07	.09
Restaurant, cafe, bar, managers	.03	.03	.05	.01	.01	.01	.02	.02	.01
Other managers, administrators	16.69	19.75	16.95	22.56	24.09	32.88	18.44	18.82	14.96
Sales workers	28.37	23.55	23.44	.93	1.11	1.79	26.02	24.47	27.44
Advertising agents, sales worker	.01	.02	.01	.00	.00	.00	.00	.00	.00
Other sales workers	28.36	23.53	23.43	.92	1.10	1.79	26.02	24.47	27.44
Clerical workers	14.36	15.38	15.96	4.23	5.56	5.69	13.01	12.13	12.31
Stenographers, typists, secretaries	2.21	2.40	2.73	.54	.84	.70	5.39	5.23	5.85
Legal secretaries	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other secretaries	1.84	2.05	2.42	.42	.72	.60	4.86	4.79	5.52
Stenographers	.03	.02	.01	.02	.02	.02	.05	.03	.01
Typists	.34	.33	.31	.09	.10	.07	.47	.41	.31
Office machine operators	.39	.42	.42	.06	.06	.11	.12	.10	.14
Bookkeeping and billing	.09	.06	.09	.02	.01	.01	.04	.03	.06
Calculating	.04	.03	.03	.03	.03	.09	.02	.02	.03
Computer and peripheral equip	.07	.15	.12	.00	.00	.00	.00	.00	.00
Keypunch	.18	.15	.16	.00	.00	.00	.05	.04	.04
Other office machine operators	.01	.02	.02	.01	.02	.02	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Tire, battery, accessory dealers			Gasoline service stations			Misc vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	11.76	12.56	12.81	3.63	4.65	4.88	7.51	6.80	6.32
Billing clerks	.13	.17	.15	.04	.07	.11	.09	.10	.09
Bookkeepers	6.77	6.73	6.49	2.53	2.96	2.79	5.15	4.36	3.84
Cashiers	.66	.82	1.11	.37	.59	.99	.14	.18	.25
Clerical supervisors, other	.07	.10	.15	.03	.06	.07	.04	.07	.10
Collectors, bill and account	.19	.22	.24	.03	.04	.05	.04	.05	.09
Counter clerks, exc food	.30	.38	.52	.02	.03	.04	.08	.10	.10
Dispatchers, starters, vehicle	.05	.07	.08	.03	.06	.07	.05	.07	.11
Estimators, investigators, other	.26	.37	.33	.11	.17	.13	.16	.18	.13
Expeditors, production controls	.06	.07	.10	.02	.03	.04	.04	.06	.09
File clerks	.17	.17	.19	.05	.06	.09	.11	.09	.07
Mail handlers, exc post office	.10	.11	.11	.02	.03	.03	.03	.03	.02
Messengers and office helpers	.05	.05	.03	.01	.01	.01	.08	.09	.08
Payroll, timekeeping clerks	.07	.09	.09	.03	.05	.05	.02	.02	.02
Receptionists	.10	.11	.10	.03	.04	.03	.35	.35	.29
Shipping and receiving clerks	.60	.61	.63	.01	.02	.03	.19	.16	.13
Statistical clerks	.14	.19	.28	.06	.09	.11	.11	.11	.10
Stock clerks and store keepers	1.26	1.38	1.33	.03	.04	.04	.33	.33	.37
Telephone operators	.08	.05	.02	.02	.03	.02	.07	.04	.04
Weighers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Misc clerical workers	.70	.87	.85	.18	.27	.20	.42	.44	.40
Crafts and kindred workers	14.09	15.35	18.45	15.51	17.63	20.00	25.37	27.28	27.96
Construction crafts workers	.22	.22	.19	.12	.17	.13	2.97	2.62	1.62
Carpenters and apprentices	.08	.08	.03	.04	.05	.03	2.39	2.05	1.09
Brick, stonemasons, apprentices	.02	.02	.04	.00	.00	.00	.00	.00	.00
Bulldozer operators	.00	.00	.00	.00	.00	.00	.03	.03	.06
Electricians and apprentices	.04	.05	.04	.01	.02	.03	.15	.14	.10
Excavating, grading mach operatr	.00	.00	.00	.01	.01	.02	.01	.01	.01
Painters and apprentices	.04	.04	.05	.02	.03	.03	.27	.31	.31
Plumbers, pipefitters, apprentices	.03	.02	.02	.03	.06	.03	.10	.07	.04
Roofers and slaters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	.99	1.14	1.10	.26	.47	.55	.85	.87	.66
Metalworkg craft wrkrs, exc mech	.75	.83	.76	.02	.03	.02	.16	.15	.13
Machinists and apprentices	.75	.83	.74	.02	.02	.02	.13	.13	.13
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.04	.02	.01
Tool and diemakers, apprentices	.00	.00	.02	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	11.83	12.82	15.96	15.04	16.90	19.26	16.35	17.99	19.17
Air cond, heating, refrig mech	.03	.05	.05	.07	.14	.10	.09	.11	.08
Aircraft mechanics	.00	.00	.00	.00	.00	.00	.89	.75	.75
Auto accessories installers	.51	.53	.48	.01	.01	.01	.06	.07	.08
Auto body repairers	.34	.31	.34	.30	.27	.20	.18	.17	.21
Auto mechanics and apprentices	10.22	11.02	13.92	14.41	16.10	18.57	3.88	4.01	4.28
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.02	.02	.02
Heavy equip mech, incl diesel	.29	.41	.69	.21	.31	.34	1.09	1.51	2.35
Household appliance mechanics	.14	.20	.20	.01	.02	.01	.09	.13	.19
Office machine repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Radio, television repairers	.13	.11	.07	.01	.01	.01	.10	.05	.02
Other mechanics and apprentices	.15	.18	.23	.02	.03	.02	9.93	11.17	11.16
Printing trade crafts workers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.02	.02	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Tire, batry, accessory dealers			Gasoline service stations			Misc vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.30	.34	.44	.06	.06	.06	5.03	5.63	6.37
Bakers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cabinetmakers	.00	.00	.00	.00	.00	.00	.09	.07	.06
Carpet installers	.00	.00	.00	.00	.00	.00	.06	.07	.10
Crane,derrick,hoist operator	.01	.01	.01	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.03	.05	.09	.00	.00	.00	.31	.45	.42
Glaziers	.12	.15	.19	.00	.00	.00	.02	.02	.02
Inspectors, other	.01	.01	.01	.01	.01	.01	.05	.04	.03
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.03	.02	.01	.04	.04	.03	.01	.01	.01
Upholsterers	.07	.07	.10	.00	.00	.00	.01	.01	.01
Other crafts workers	.01	.01	.01	.01	.01	.01	4.48	4.96	5.74
Operatives	17.95	16.65	15.36	55.40	49.70	37.97	5.85	5.58	5.42
Operatives,except transport	14.06	13.01	11.81	54.07	47.79	35.56	3.13	3.31	3.74
Semiskilled metalworking	.25	.27	.32	.03	.06	.07	.37	.41	.44
Grinding machine operatives	.04	.04	.03	.00	.00	.00	.00	.00	.00
Lathe,milling mach operatives	.03	.02	.03	.00	.00	.00	.00	.00	.00
Metal platers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other precision mach operators	.03	.03	.03	.00	.00	.00	.00	.00	.00
Punch,stamping press operatives	.01	.01	.01	.00	.00	.00	.00	.00	.00
Solderers	.00	.00	.00	.00	.00	.00	.03	.02	.02
Welders and flamecutters	.14	.16	.21	.03	.06	.07	.34	.39	.42
Semiskilled packing, inspecting	.21	.20	.18	.06	.10	.11	.06	.05	.04
Packer,wrapper,exc meat,prodce	.21	.20	.18	.06	.10	.11	.06	.05	.04
Other operatives, exc transport	13.60	12.55	11.31	53.98	47.63	35.37	2.70	2.85	3.26
Assemblers	.00	.00	.00	.00	.00	.00	.48	.60	.75
Cutting operatives, other	.00	.00	.00	.01	.01	.01	.02	.02	.02
Dressmakers, exc factory	.00	.00	.00	.01	.01	.01	.00	.00	.00
Filer,polisher,sander,buffer	.06	.08	.09	.00	.00	.00	.00	.00	.00
Garage wrkr,gas station atten	10.48	8.56	6.84	53.72	47.24	35.00	.92	.72	.72
Meat cutters,lutchers,exc mfg	.00	.00	.00	.03	.04	.06	.00	.00	.00
Mixing operatives	.03	.04	.05	.00	.00	.00	.00	.00	.00
Oilers,greasers,exc automobiles	.01	.01	.01	.01	.01	.02	.02	.01	.00
Painters, mfg articles	.08	.08	.12	.03	.04	.03	.24	.26	.37
Photographic process workers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.03	.02	.02
Furnace tendr,stoktr,exc metal	.00	.00	.00	.01	.01	.01	.01	.01	.01
Miscellaneous machine operatves	2.34	2.97	3.41	.04	.06	.05	.18	.21	.22
Other operatives,exc transport	.60	.81	.80	.12	.19	.17	.79	1.00	1.15
Transport equipment operatives	3.89	3.64	3.56	1.33	1.92	2.41	2.72	2.27	1.68
Boat operators	.00	.00	.00	.00	.00	.00	.02	.01	.01
Bus drivers	.00	.00	.00	.00	.01	.00	.03	.03	.00
Delivery and route workers	2.19	2.15	2.23	.40	.59	.56	.70	.62	.57
Fork lift,tow motor operatives	.12	.18	.26	.01	.01	.02	.02	.02	.02
Parking attendants	.02	.03	.02	.00	.01	.00	.02	.02	.01
Taxicab drivers, chauffeurs	.08	.07	.05	.01	.02	.02	.05	.04	.01
Truck drivers	1.48	1.22	1.00	.89	1.29	1.81	1.87	1.53	1.06
Service workers	.59	.60	.52	.24	.26	.18	2.56	2.59	2.32
Cleaning service workers	.46	.47	.34	.14	.15	.07	2.23	2.31	1.98
Bldg interior cleaners, other	.08	.10	.11	.03	.04	.02	.99	1.10	1.09
Janitors and sextons	.38	.37	.23	.10	.11	.06	1.24	1.21	.88
Food service workers	.04	.05	.06	.07	.07	.07	.03	.02	.04
Cooks,exc private households	.02	.01	.01	.03	.03	.05	.01	.01	.01
Dishwashers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Food counter,fountain workers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Waiters	.01	.01	.01	.03	.02	.01	.01	.01	.01
Other food serv wkrs,exc privt	.01	.01	.01	.00	.00	.00	.02	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Tire, batry, accessory dealers			Gasoline service stations			Misc vehicle dealers		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.02	.02	.02	.02	.02	.02	.15	.10	.12
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.01	.01	.01
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.04	.03	.05
Elevator operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.10	.06	.06
Protective service workers	.07	.07	.11	.01	.01	.02	.15	.15	.19
Guards	.06	.06	.10	.01	.01	.02	.14	.15	.19
Police and detectives	.01	.01	.01	.00	.00	.00	.01	.01	.00
Laborers, except farm	2.12	2.57	2.77	.42	.55	.43	1.81	1.98	2.16
Carpenter helpers	.01	.01	.01	.01	.01	.02	.04	.03	.02
Constr labr, exc carpenter helpr	.06	.06	.07	.02	.02	.01	.11	.10	.07
Freight and material handlers	.33	.42	.60	.04	.05	.06	.25	.30	.43
Gardenrs, groundkeepers, exc farm	.01	.01	.01	.01	.01	.01	.19	.20	.25
Stock handlers	1.20	1.57	1.65	.01	.02	.01	.24	.32	.37
Vehicle washers, equip cleaners	.10	.11	.09	.29	.37	.20	.51	.57	.55
Warehouse labcrers, other	.30	.28	.21	.03	.05	.10	.09	.10	.10
Other laborers	.12	.12	.14	.02	.03	.03	.38	.37	.36

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and accessory stores			Apparel and accessory, exc shoes			Shoe stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.95	1.19	1.03	1.01	1.26	1.10	.72	.87	.74
Engineering, science technicians	.00	.00	.00	.00	.00	.00	.02	.02	.02
Drafters	.00	.00	.00	.00	.00	.00	.02	.02	.02
Medical workers, exc technicians	.01	.01	.01	.01	.01	.02	.00	.00	.00
Registered nurses	.01	.01	.01	.01	.01	.02	.00	.00	.00
Computer specialists	.04	.05	.04	.03	.04	.03	.06	.09	.09
Computer programers	.03	.03	.02	.02	.02	.01	.05	.06	.07
Computer systems analysts	.01	.01	.02	.01	.01	.02	.01	.02	.03
Social scientists	.02	.02	.01	.02	.03	.01	.01	.01	.00
Economists	.02	.02	.01	.02	.03	.01	.01	.01	.00
Teachers	.00	.01	.01	.01	.01	.02	.00	.00	.00
Adult education	.00	.01	.01	.01	.01	.02	.00	.00	.00
Writers, artists, entertainers	.34	.42	.37	.39	.48	.42	.11	.14	.18
Designers	.19	.23	.21	.22	.27	.25	.04	.06	.07
Editors and reporters	.03	.05	.09	.04	.05	.09	.02	.03	.09
Painters and sculptors	.08	.09	.03	.10	.11	.04	.02	.02	.00
Photographers	.01	.01	.02	.01	.01	.02	.01	.01	.01
Public relations specialists	.03	.04	.02	.03	.04	.03	.02	.02	.01
Other professional and technical	.54	.67	.58	.55	.69	.61	.51	.61	.46
Accountants	.33	.42	.40	.33	.43	.41	.33	.41	.34
Lawyers	.01	.02	.02	.01	.02	.02	.02	.02	.01
Personnel, labor relations wkrs	.19	.22	.16	.20	.24	.18	.16	.18	.11
Managers, officials, proprietors	19.46	21.73	21.03	18.88	20.89	20.67	21.82	25.38	22.41
Buyers, sales, loan managers	5.81	5.27	3.84	5.94	5.29	3.67	5.31	5.21	4.49
Bank, financial managers	.10	.10	.05	.10	.10	.05	.07	.08	.06
Credit managers	.38	.22	.12	.45	.26	.15	.11	.06	.03
Buyers, wholesale, retail trade	2.40	2.17	1.67	2.58	2.32	1.82	1.64	1.49	1.10
Sales manager, retail trade	2.94	2.79	2.00	2.81	2.61	1.66	3.49	3.58	3.30
Other managers, officials, proprts	13.64	16.46	17.19	12.94	15.60	17.00	16.52	20.17	17.92
Office managers, other	.28	.31	.27	.30	.33	.28	.20	.22	.24
Restaurant, cafe, bar, managers	.03	.02	.01	.03	.03	.01	.03	.02	.01
Other managers, administrators	13.33	16.13	16.91	12.61	15.25	16.70	16.30	19.93	17.67
Sales workers	51.28	47.81	55.24	50.12	46.82	54.27	56.02	52.11	58.92
Advertising agents, sales worker	.04	.06	.09	.04	.06	.09	.03	.05	.10
Other sales workers	51.24	47.74	55.15	50.08	46.75	54.18	56.00	52.05	58.82
Clerical workers	14.43	15.19	13.30	14.56	15.41	13.94	13.90	14.21	10.89
Stenographs, typists, secretaries	1.35	1.44	1.48	1.37	1.49	1.67	1.30	1.20	.76
Legal secretaries	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other secretaries	.97	1.09	1.20	.97	1.13	1.38	.99	.92	.50
Stenographers	.02	.01	.01	.02	.01	.01	.01	.01	.01
Typists	.36	.34	.27	.38	.35	.28	.29	.27	.24
Office machine operators	.51	.48	.26	.50	.46	.24	.57	.56	.35
Bookkeeping and billing	.09	.04	.02	.11	.05	.02	.03	.02	.01
Calculating	.10	.06	.02	.08	.05	.01	.17	.11	.03
Computer and peripheral equip	.07	.15	.11	.06	.14	.09	.08	.19	.17
Keypunch	.19	.16	.09	.17	.15	.09	.24	.20	.10
Other office machine operators	.06	.06	.03	.07	.07	.03	.05	.05	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and accessory stores			Apparel and accessory, exc shoes			Shoe stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	12.56	13.27	11.56	12.69	13.46	12.03	12.03	12.45	9.78
Billing clerks	.16	.18	.19	.16	.18	.21	.16	.16	.11
Bookkeepers	3.56	3.60	2.85	3.61	3.67	2.98	3.35	3.28	2.33
Cashiers	3.91	4.44	4.26	3.50	4.06	4.12	5.58	6.06	4.79
Clerical supervisors, other	.09	.11	.08	.10	.11	.08	.07	.08	.06
Collectors, bill and account	.06	.05	.02	.07	.06	.02	.02	.02	.01
Counter clerks,exc food	.20	.21	.18	.22	.24	.21	.10	.11	.10
Estimators,investigators,other	.22	.24	.09	.24	.27	.11	.11	.11	.04
Expeditors,production controls	.03	.03	.03	.04	.04	.03	.01	.01	.01
File clerks	.22	.21	.20	.23	.22	.21	.18	.16	.16
Mail handlers,exc post office	.10	.10	.07	.10	.10	.07	.09	.09	.04
Messengers and office helpers	.03	.03	.01	.04	.03	.01	.01	.01	.01
Payroll,timekeeping clerks	.13	.17	.18	.13	.16	.16	.15	.21	.28
Receptionists	.13	.12	.07	.14	.13	.08	.11	.09	.04
Shipping and receiving clerks	.68	.71	.78	.76	.79	.88	.37	.38	.41
Statistical clerks	.15	.16	.11	.16	.18	.12	.09	.10	.06
Stock clerks and store keepers	1.13	1.04	.72	1.15	1.05	.71	1.07	1.00	.76
Telephone operators	.17	.13	.09	.19	.14	.10	.08	.06	.04
Misc clerical workers	1.58	1.74	1.64	1.85	2.02	1.94	.47	.52	.53
Crafts and kindred workers	4.00	4.25	3.81	4.38	4.72	4.08	2.40	2.23	2.81
Construction crafts workers	.10	.12	.17	.10	.11	.13	.10	.15	.32
Carpenters and apprentices	.06	.08	.11	.06	.08	.10	.05	.08	.15
Electricians and apprentices	.02	.02	.03	.01	.02	.02	.03	.04	.08
Painters and apprentices	.02	.02	.01	.02	.02	.01	.01	.01	.01
Plumbers,pipefitters,aprentices	.00	.01	.02	.00	.00	.00	.02	.03	.08
Blue collar worker supervisors	.56	.64	.60	.54	.60	.49	.64	.82	1.01
Mechanics,repairers,installers	.18	.18	.17	.15	.15	.13	.34	.32	.31
Air cond, heating, refrig meca	.01	.02	.02	.01	.01	.01	.02	.04	.06
Auto body repairers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Auto mechanics and apprentices	.10	.08	.03	.07	.06	.03	.20	.15	.05
Heavy equip mech, incl diesel	.03	.04	.06	.03	.03	.05	.04	.06	.11
Household appliance mechanics	.01	.01	.01	.01	.01	.02	.01	.01	.01
Office machine repairers	.01	.01	.01	.01	.01	.02	.00	.00	.00
Radio, television repairers	.01	.01	.01	.00	.00	.00	.03	.03	.07
Other mechanics and apprentices	.02	.02	.01	.02	.02	.01	.02	.02	.01
Printing trade crafts workers	.03	.04	.07	.03	.04	.06	.03	.05	.10
Compositors and typesetters	.02	.03	.05	.02	.03	.04	.02	.04	.09
Engravers exc photoengravers	.01	.01	.02	.01	.01	.02	.00	.00	.00
Press,plate printers,aprentices	.01	.01	.00	.01	.00	.00	.01	.01	.01
Transport,public util craft wkrs	.01	.01	.01	.02	.01	.01	.01	.01	.01
Telephone installers,repairers	.01	.01	.01	.02	.01	.01	.01	.01	.01
Other crafts, kindred workers	3.11	3.25	2.81	3.55	3.80	3.27	1.29	.89	1.06
Cabinetmakers	.01	.01	.02	.01	.02	.02	.01	.01	.01
Carpet installers	.01	.01	.02	.01	.01	.02	.01	.01	.01
Decorators, window dressers	.58	1.11	1.48	.67	1.26	1.70	.23	.45	.64
Furniture and wood finishers	.01	.01	.01	.01	.01	.02	.00	.00	.00
Furriers	.18	.17	.16	.23	.21	.20	.00	.00	.00
Inspectors, other	.03	.03	.02	.04	.03	.01	.02	.03	.07
Shoe repairers	.19	.06	.05	.01	.00	.00	.94	.30	.23
Sign painters and letterers	.01	.01	.00	.01	.01	.00	.01	.01	.00
Stationary engineers	.01	.02	.03	.01	.02	.04	.01	.01	.01
Tailors	2.03	1.79	.99	2.51	2.18	1.23	.05	.06	.08
Upholsterers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other crafts workers	.03	.03	.03	.04	.03	.03	.01	.01	.01
Operatives	6.09	6.01	3.04	7.16	7.06	3.59	1.70	1.44	.98
Operatives,except transport	5.81	5.71	2.66	6.85	6.72	3.15	1.55	1.29	.80
Semiskilled metalworking	.01	.01	.03	.01	.02	.04	.00	.00	.00
Welders and flamecutters	.01	.01	.03	.01	.02	.04	.00	.00	.00
Semiskilled packing, inspecting	.39	.40	.36	.42	.43	.40	.25	.25	.20
Packer,wrapper,exc meat,prodce	.39	.40	.36	.42	.43	.40	.25	.25	.20

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Apparel and accessory stores			Apparel and accessory, exc shoes			Shoe stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	5.42	5.30	2.27	6.42	6.28	2.71	1.30	1.05	.60
Clothing ironers and pressers	.30	.22	.08	.37	.27	.10	.01	.01	.00
Cutting operatives, other	.05	.05	.04	.06	.06	.04	.03	.02	.01
Dressmakers, exc factory	3.79	3.88	1.37	4.67	4.75	1.72	.13	.13	.04
Dyers	.01	.01	.02	.00	.00	.00	.04	.05	.08
Filer, polisher, sander, buffer	.00	.00	.00	.00	.00	.00	.01	.01	.00
Garage wrkr, gas station atten	.14	.09	.04	.01	.01	.01	.68	.42	.16
Laundry, dry cleang oprs, other	.01	.01	.01	.01	.01	.01	.00	.00	.00
Meat cutters, butchers, exc mfg	.01	.02	.02	.02	.02	.03	.00	.00	.00
Milleners	.21	.18	.09	.26	.22	.11	.00	.00	.00
Photographic process workers	.00	.00	.01	.00	.00	.00	.01	.02	.04
Sewers and stitchers	.54	.48	.39	.66	.57	.48	.06	.06	.08
Shoemaking machine operatives	.01	.01	.00	.00	.00	.00	.04	.03	.01
Furnace tendr, stokr, exc metal	.01	.01	.02	.01	.01	.02	.01	.01	.01
Miscellaneous machine operatives	.11	.12	.09	.10	.10	.08	.15	.17	.13
Other operatives, exc transport	.22	.23	.11	.24	.25	.12	.13	.13	.05
Transport equipment operatives	.28	.30	.38	.32	.34	.44	.14	.15	.19
Delivery and route workers	.15	.14	.14	.17	.16	.17	.06	.05	.04
Fork lift, tow motor operatives	.01	.01	.02	.01	.01	.02	.01	.01	.01
Taxicab drivers, chauffeurs	.01	.01	.02	.01	.01	.02	.01	.01	.01
Truck drivers	.11	.13	.21	.12	.14	.23	.07	.08	.13
Service workers	1.95	1.98	1.50	2.18	2.22	1.69	.97	.91	.78
Cleaning service workers	1.07	1.09	.72	1.19	1.20	.81	.59	.59	.39
Bldg interior cleaners, other	.47	.50	.36	.53	.56	.40	.25	.27	.21
Janitors and sextons	.60	.58	.36	.66	.64	.40	.34	.32	.19
Food service wrkrs	.18	.16	.19	.20	.17	.20	.09	.09	.13
Waiters' assistants	.01	.01	.02	.01	.01	.03	.00	.00	.00
Cooks, exc private households	.03	.03	.03	.04	.03	.04	.01	.01	.01
Dishwashers	.02	.01	.01	.02	.01	.01	.00	.00	.00
Food counter, fountain workers	.03	.04	.06	.03	.04	.07	.01	.02	.05
Waiters	.07	.05	.05	.07	.05	.04	.05	.04	.06
Other food serv wkrs, exc privt	.02	.02	.01	.03	.02	.01	.01	.01	.01
Health service workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Practical nurses	.00	.00	.00	.00	.00	.00	.01	.01	.02
Personal service workers	.53	.54	.37	.60	.62	.43	.23	.16	.14
Attendants, personal serv, other	.15	.12	.08	.18	.15	.10	.00	.00	.00
Barbers	.01	.00	.00	.01	.00	.00	.02	.00	.00
Bootblacks	.02	.01	.01	.00	.00	.00	.09	.04	.07
Elevator operators	.11	.08	.02	.13	.09	.02	.03	.02	.01
Hairdressers and cosmetologists	.23	.31	.25	.27	.36	.30	.05	.07	.06
Housekeepers, exc private homes	.02	.01	.01	.01	.01	.01	.04	.03	.01
Protective service workers	.17	.19	.22	.19	.22	.25	.05	.07	.10
Guards	.15	.17	.20	.17	.20	.23	.04	.06	.10
Police and detectives	.02	.02	.02	.02	.02	.02	.01	.01	.00
Laborers, except farm	1.85	1.86	1.05	1.70	1.63	.68	2.48	2.85	2.48
Constr labr, exc carpenter helpr	.01	.01	.00	.00	.00	.00	.04	.03	.01
Freight and material handlers	.10	.10	.07	.10	.10	.08	.08	.08	.06
Stock handlers	1.60	1.60	.79	1.50	1.41	.46	2.04	2.40	2.04
Vehicle washers, equip cleaners	.01	.01	.01	.01	.01	.02	.00	.00	.00
Warehouse labcrers, other	.10	.11	.15	.07	.08	.11	.24	.26	.29
Other laborers	.03	.03	.03	.01	.01	.02	.08	.08	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and appliance stores			Home furnishings			Household appliances, tv, radio		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	3.07	2.91	2.12	1.84	2.16	1.99	5.09	4.03	2.35
Engineers, technical	.11	.11	.08	.00	.00	.00	.29	.27	.21
Civil	.01	.01	.02	.00	.00	.00	.02	.02	.04
Electrical	.04	.05	.04	.00	.00	.00	.12	.12	.10
Industrial	.01	.01	.00	.00	.00	.00	.02	.02	.00
Mechanical	.02	.02	.01	.00	.00	.00	.05	.05	.04
Sales	.02	.01	.00	.00	.00	.00	.05	.03	.00
Other engineers	.02	.02	.01	.00	.00	.00	.04	.04	.03
Engineering, science technicians	.10	.12	.14	.04	.04	.04	.21	.26	.31
Drafters	.05	.06	.09	.04	.04	.04	.07	.09	.16
Electrical and electronic	.04	.05	.04	.00	.00	.00	.11	.13	.10
Industrial engineering	.01	.01	.00	.00	.00	.00	.01	.02	.01
Surveyors	.00	.01	.01	.00	.00	.00	.01	.02	.04
Other engineering, science teca	.00	.01	.00	.00	.00	.00	.01	.01	.01
Technicians, except health	.03	.04	.02	.00	.00	.00	.07	.09	.06
Radio operators	.01	.02	.01	.00	.00	.00	.03	.04	.02
Other technicians except health	.01	.02	.01	.00	.00	.00	.03	.04	.04
Computer specialists	.06	.09	.08	.03	.05	.06	.11	.15	.11
Computer programmers	.05	.06	.05	.03	.03	.03	.08	.10	.08
Computer systems analysts	.01	.03	.03	.01	.02	.03	.03	.04	.03
Social scientists	.02	.04	.05	.02	.03	.03	.02	.06	.07
Economists	.02	.04	.04	.02	.03	.03	.02	.04	.06
Psychologists	.00	.01	.01	.00	.00	.00	.01	.02	.02
Teachers	1.28	.81	.23	.01	.01	.01	3.37	1.99	.60
Adult education	.04	.04	.02	.01	.01	.01	.09	.09	.03
Other teachers	1.24	.76	.22	.00	.00	.00	3.29	1.90	.57
Writers, artists, entertainers	.98	1.14	1.11	1.33	1.59	1.52	.40	.48	.42
Designers	.74	.85	.85	1.15	1.37	1.34	.06	.07	.04
Editors and reporters	.03	.04	.06	.04	.04	.06	.03	.04	.05
Musicians and composers	.05	.06	.04	.00	.00	.00	.14	.14	.10
Painters and sculptors	.08	.09	.06	.10	.11	.07	.04	.06	.05
Photographers	.02	.02	.03	.02	.02	.02	.03	.03	.04
Public relations specialists	.06	.08	.07	.03	.04	.02	.10	.14	.14
Other professional and technical	.48	.56	.42	.40	.45	.32	.61	.74	.57
Accountants	.36	.41	.30	.32	.35	.26	.43	.50	.36
Home management advisors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Lawyers	.01	.01	.00	.00	.00	.00	.01	.01	.00
Operations and systems research	.01	.01	.01	.00	.00	.00	.02	.03	.04
Personnel, labor relations wkrs	.10	.12	.09	.08	.09	.06	.13	.16	.15
Managers, officials, proprietors	19.28	20.41	20.48	18.76	19.58	18.63	20.12	21.65	23.53
Buyers, sales, loan managers	3.67	3.11	2.11	3.74	3.03	2.04	3.56	3.23	2.22
Bank, financial managers	.09	.09	.04	.08	.08	.05	.10	.09	.03
Credit managers	.45	.24	.14	.60	.33	.19	.21	.12	.05
Buyers, wholesale, retail trade	.85	.69	.51	1.06	.87	.63	.50	.43	.31
Sales manager, retail trade	2.28	2.09	1.42	2.00	1.76	1.18	2.75	2.59	1.82
Other managers, officials, proprt	15.61	17.29	18.37	15.03	16.54	16.59	16.57	18.41	21.32
Funeral directors	.03	.01	.01	.05	.02	.01	.00	.00	.00
Office managers, other	.59	.61	.58	.60	.62	.58	.59	.60	.59
Restaurant, cafe, bar, managers	.04	.02	.01	.03	.02	.01	.04	.03	.01
Other managers, administrators	14.94	16.65	17.78	14.34	15.88	16.00	15.94	17.79	20.72
Sales workers	25.74	27.14	34.52	24.98	26.90	36.90	27.00	27.50	30.60
Advertising agents, sales worker	.05	.07	.11	.05	.07	.11	.05	.07	.10
Demonstrators	.11	.09	.09	.05	.05	.11	.22	.14	.06
Other sales workers	25.58	26.98	34.32	24.88	26.77	36.68	26.73	27.29	30.44
Clerical workers	15.88	15.22	13.02	15.26	14.32	11.36	16.90	16.57	15.77
Stenographers, typists, secretaries	3.96	4.06	4.48	3.69	3.64	3.74	4.42	4.68	5.70
Other secretaries	3.25	3.44	3.99	3.04	3.09	3.32	3.61	3.95	5.09
Stenographers	.04	.02	.01	.03	.02	.01	.06	.03	.00
Typists	.66	.60	.49	.61	.53	.41	.75	.70	.60

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and appliance stores			Home furnishings			Household appliances, tv,radio		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.30	.30	.18	.26	.25	.15	.36	.38	.25
Bookkeeping and billing	.06	.03	.02	.05	.03	.01	.08	.04	.02
Calculating	.01	.01	.01	.01	.01	.01	.02	.01	.01
Computer and peripheral equip	.05	.12	.09	.04	.10	.07	.06	.15	.11
Key punch	.13	.11	.05	.12	.09	.04	.16	.14	.07
Other office machine operators	.03	.03	.02	.03	.03	.02	.03	.04	.03
Other clerical workers	11.63	10.86	8.36	11.32	10.43	7.48	12.12	11.50	9.83
Billing clerks	.16	.17	.16	.15	.15	.12	.17	.20	.23
Bookkeepers	6.18	5.56	4.15	5.79	5.15	3.50	6.83	6.18	5.23
Cashiers	.72	.79	.75	.73	.77	.66	.70	.81	.88
Clerical supervisors, other	.07	.09	.08	.09	.11	.10	.05	.06	.04
Collectors, bill and account	.28	.25	.12	.35	.31	.15	.17	.15	.06
Counter clerks, exc food	.14	.15	.13	.13	.13	.12	.16	.18	.16
Dispatchers, starters, vehicle	.06	.07	.05	.03	.03	.02	.11	.11	.08
Estimators, investigators, other	.37	.42	.22	.41	.45	.24	.32	.37	.18
Expeditors, production controls	.06	.06	.05	.06	.06	.05	.07	.06	.04
File clerks	.24	.21	.18	.22	.18	.14	.27	.26	.26
Mail handlers, exc post office	.09	.09	.06	.06	.05	.04	.15	.15	.10
Messengers and office helpers	.05	.05	.03	.05	.04	.02	.05	.05	.04
Payroll, timekeeping clerks	.08	.10	.12	.07	.09	.11	.10	.12	.14
Receptionists	.43	.38	.22	.40	.36	.21	.48	.40	.22
Shipping and receiving clerks	.61	.56	.45	.74	.65	.45	.39	.41	.46
Statistical clerks	.13	.14	.10	.11	.11	.07	.18	.19	.13
Stock clerks and store keepers	.71	.61	.39	.74	.65	.48	.66	.55	.25
Telephone operators	.18	.13	.10	.18	.12	.06	.18	.15	.16
Weighers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Misc clerical workers	1.05	1.04	1.01	1.03	1.01	.93	1.08	1.09	1.15
Crafts and kindred workers	23.57	22.88	21.06	23.01	22.18	20.18	24.51	23.94	22.50
Construction crafts workers	2.86	2.18	1.36	3.74	2.75	1.60	1.41	1.32	.96
Carpenters and apprentices	.79	.71	.49	1.21	1.11	.73	.10	.11	.09
Brick, stonemasons, apprentices	.01	.01	.00	.01	.01	.00	.00	.00	.00
Bulldozer operators	.02	.01	.01	.02	.02	.01	.00	.00	.00
Cement and concrete finishers	.01	.01	.02	.01	.01	.01	.01	.01	.04
Electricians and apprentices	.37	.35	.17	.05	.06	.09	.91	.78	.29
Excavating, grading mach operatr	.02	.01	.01	.00	.00	.00	.03	.03	.02
Floor layers, exc tile setters	.79	.41	.14	1.26	.67	.21	.01	.01	.00
Painters and apprentices	.19	.16	.08	.26	.21	.10	.08	.07	.04
Paperhangers	.01	.01	.00	.01	.01	.00	.00	.00	.00
Plasterers and apprentices	.01	.01	.01	.01	.01	.02	.00	.00	.00
Plumbers, pipefitters, apprentices	.11	.13	.19	.02	.02	.01	.26	.31	.48
Tile setters	.54	.37	.26	.87	.62	.41	.00	.00	.00
Blue collar worker supervisors	.81	.98	1.14	.81	.91	.89	.82	1.09	1.56
Metalworkg craft wkrs, exc mech	.11	.15	.27	.04	.06	.14	.23	.28	.50
Machinists and apprentices	.04	.06	.12	.02	.04	.10	.08	.09	.15
Millwrights	.00	.01	.03	.00	.00	.00	.01	.02	.08
Sheetmetal workers, apprentices	.05	.06	.08	.00	.00	.00	.13	.14	.21
Tool and diemakers, apprentices	.01	.02	.05	.01	.02	.04	.01	.02	.07
Mechanics, repairers, installers	8.91	8.98	7.60	1.64	1.52	1.04	20.85	20.12	18.43
Air cond, heating, refrig mecn	1.01	1.51	1.54	.08	.10	.09	2.55	3.60	3.94
Aircraft mechanics	.00	.01	.02	.00	.00	.00	.01	.02	.06
Auto accessories installers	.05	.04	.01	.02	.02	.01	.10	.08	.03
Auto mechanics and apprentices	.07	.07	.05	.04	.03	.02	.13	.12	.09
Data processing mach repairers	.01	.02	.02	.00	.00	.00	.03	.05	.05
Farm implement mechanics	.01	.01	.00	.00	.00	.00	.01	.01	.01
Heavy equip mech, incl diesel	.09	.12	.11	.04	.06	.08	.17	.21	.17
Household appliance mechanics	2.47	2.49	1.48	.97	.91	.56	4.94	4.85	3.01
Office machine repairers	.03	.02	.03	.00	.00	.00	.07	.06	.08
Radio, television repairers	4.60	4.17	4.12	.43	.35	.27	11.46	9.89	10.47
Other mechanics and apprentices	.56	.53	.20	.06	.05	.02	1.37	1.25	.51
Printing trade crafts workers	.02	.02	.02	.03	.03	.03	.01	.01	.00
Compositors and typesetters	.02	.02	.02	.02	.03	.03	.01	.01	.00
Transport, public util craft wkrs	.05	.05	.02	.00	.00	.00	.11	.11	.05
Elec pwr line instaler, repairer	.03	.03	.01	.00	.00	.00	.07	.07	.03
Power station operators	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers, repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone line instalr, splicers	.01	.01	.00	.00	.00	.00	.02	.02	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and appliance stores			Home furnishings			Household appliances, tv,radio		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	10.81	10.53	10.64	16.73	16.92	16.49	1.07	1.01	1.00
Cabinetmakers	2.91	2.48	1.99	4.65	4.10	3.17	.04	.05	.05
Carpet installers	3.46	3.79	3.76	5.52	6.29	6.02	.06	.07	.04
Crane,derrick,hoist operator	.01	.01	.05	.01	.01	.04	.01	.02	.06
Decorators, window dressers	1.31	2.06	2.75	2.07	3.38	4.38	.06	.09	.07
Furniture and wood finishers	.48	.41	.21	.72	.63	.31	.09	.08	.03
Glaziers	.04	.04	.05	.06	.07	.08	.00	.00	.00
Inspectors, other	.02	.03	.04	.02	.02	.03	.03	.04	.05
Jewelers and watchmakers	.01	.01	.04	.01	.01	.05	.01	.01	.02
Piano,organ tuners, repairers	.23	.20	.17	.00	.00	.00	.61	.48	.46
Stationary engineers	.04	.05	.08	.01	.01	.01	.10	.12	.20
Tailors	.01	.01	.01	.01	.01	.01	.01	.01	.01
Upholsterers	2.17	1.35	1.47	3.49	2.25	2.35	.01	.01	.01
Other crafts workers	.12	.08	.03	.17	.12	.04	.04	.03	.00
Operatives	8.19	7.38	5.77	10.77	9.71	7.07	3.94	3.91	3.63
Operatives,except transport	3.11	2.98	1.97	4.20	4.03	2.42	1.33	1.41	1.24
Semiskilled metalworking	.07	.08	.10	.05	.05	.05	.11	.13	.18
Punch,stamping press operatives	.00	.00	.00	.00	.00	.00	.01	.01	.01
Solderers	.01	.01	.00	.01	.01	.00	.01	.01	.00
Welders and flamecutters	.05	.06	.08	.02	.03	.03	.09	.11	.17
Semiskilled packing, inspecting	.16	.16	.19	.16	.15	.14	.15	.18	.27
Packer,wrapper,exc meat,produce	.16	.16	.19	.16	.15	.14	.15	.18	.27
Other operatives, exc transport	2.88	2.74	1.68	3.99	3.84	2.23	1.07	1.09	.78
Asbestos,insulation workers	.01	.02	.03	.01	.01	.00	.01	.03	.08
Assemblers	.14	.16	.19	.17	.18	.21	.10	.12	.15
Clothing ironers and pressers	.01	.01	.00	.01	.01	.00	.01	.01	.00
Cutting operatives, other	.25	.23	.19	.39	.38	.31	.01	.01	.00
Dressmakers, exc factory	1.51	1.41	.60	2.22	2.15	.92	.34	.31	.07
Drillers, earth	.00	.00	.01	.00	.00	.00	.01	.01	.01
Filer,polisher,sander,buffer	.07	.06	.03	.09	.08	.05	.03	.03	.00
Garage wrkr,gas station atten	.03	.02	.02	.01	.01	.01	.06	.04	.03
Laundry,dry cleang oprs,other	.02	.01	.00	.02	.02	.01	.00	.00	.00
Meat cutters,butchers,exc mfg	.01	.01	.02	.01	.02	.02	.01	.01	.01
Painters, mfg articles	.06	.05	.04	.10	.08	.06	.00	.00	.00
Photographic process workers	.01	.01	.02	.01	.01	.03	.01	.01	.01
Sawyers	.02	.02	.02	.04	.04	.03	.00	.00	.00
Sewers and stitchers	.23	.20	.22	.29	.25	.26	.12	.12	.16
Furnace tendr,stokr,exc metal	.02	.02	.03	.01	.01	.01	.03	.03	.05
Winding operatives, other	.01	.01	.00	.01	.00	.00	.03	.02	.00
Miscellaneous machine operatvas	.18	.17	.11	.24	.22	.11	.09	.10	.10
Other operatives,exc transport	.30	.31	.18	.35	.36	.22	.22	.24	.12
Transport equipment operatives	5.07	4.40	3.80	6.57	5.68	4.66	2.61	2.50	2.39
Delivery and route workers	3.57	3.27	3.40	4.59	4.21	4.21	1.90	1.87	2.06
Fork lift,tow motor operatives	.05	.06	.07	.06	.07	.07	.03	.05	.07
Taxicab drivers, chauffeurs	.02	.03	.02	.03	.02	.01	.02	.03	.05
Truck drivers	1.42	1.04	.31	1.89	1.37	.38	.66	.55	.21
Service workers	1.58	1.50	1.10	1.95	1.87	1.38	.98	.95	.63
Cleaning service workers	1.34	1.27	.86	1.65	1.61	1.12	.83	.77	.42
Bldg interior cleaners, other	.72	.72	.53	.97	.98	.73	.32	.32	.20
Janitors and sextons	.62	.55	.32	.68	.62	.39	.51	.45	.21
Food service workers	.12	.11	.15	.17	.16	.21	.04	.04	.05
Waiters' assistants	.00	.01	.02	.01	.01	.03	.00	.00	.00
Cooks,exc private households	.02	.02	.02	.02	.02	.03	.01	.01	.01
Dishwashers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.05	.05	.08	.07	.08	.11	.01	.01	.02
Waiters	.04	.03	.02	.05	.03	.03	.02	.01	.01
Other food serv wkrs,exc privt	.01	.01	.01	.01	.01	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Furniture and appliance stores			Home furnishings			Household appliances, tv,radio		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.07	.06	.03	.08	.06	.02	.05	.05	.04
Attendants, personal serv, other	.01	.01	.01	.01	.01	.01	.00	.00	.00
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.01	.01	.01
Elevator operators	.03	.02	.01	.04	.03	.01	.02	.02	.01
Hairdressers and cosmetologists	.01	.01	.00	.00	.00	.00	.01	.02	.01
Housekeepers, exc private homes	.03	.02	.01	.04	.02	.01	.01	.01	.01
Protective service workers	.06	.06	.07	.05	.05	.03	.07	.08	.14
Guards	.06	.06	.07	.05	.05	.03	.06	.08	.14
Laborers, except farm	2.69	2.55	1.93	3.43	3.28	2.50	1.46	1.47	1.00
Carpenter helpers	.11	.09	.12	.18	.15	.19	.01	.01	.01
Constr labr, exc carpenter helper	.13	.11	.05	.05	.04	.02	.25	.21	.09
Freight and material handlers	1.22	1.16	.94	1.70	1.65	1.28	.41	.44	.37
Gardeners, groundkeepers, exc farm	.03	.04	.03	.02	.03	.03	.05	.06	.04
Stock handlers	.58	.56	.22	.62	.57	.22	.53	.54	.23
Vehicle washers, equip cleaners	.01	.01	.01	.01	.01	.01	.00	.00	.00
Warehouse laborers, other	.53	.52	.52	.76	.75	.71	.15	.17	.21
Other laborers	.08	.06	.04	.09	.08	.04	.06	.05	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Eating and drinking places			Misc retail trade			Drug stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.04	1.53	1.47	8.24	8.08	8.13	21.98	23.91	22.93
Engineers, technical	.01	.01	.00	.07	.06	.05	.05	.04	.03
Mechanical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Sales	.00	.00	.00	.02	.01	.01	.00	.00	.00
Other engineers	.00	.00	.00	.03	.02	.03	.04	.04	.03
Life and physical scientists	.00	.01	.00	.03	.04	.03	.01	.02	.03
Agricultural	.00	.00	.00	.03	.03	.02	.00	.00	.00
Biological	.00	.01	.00	.01	.01	.01	.01	.02	.03
Mathematical specialists	.00	.00	.00	.00	.00	.00	.01	.01	.02
Statisticians	.00	.00	.00	.00	.00	.00	.01	.01	.02
Engineering, science technicians	.00	.00	.00	.03	.04	.05	.01	.01	.02
Agricultural,biologcl,exc health	.00	.00	.00	.01	.01	.01	.00	.00	.00
Drafters	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other engineering,science teca	.00	.00	.00	.01	.01	.01	.01	.01	.02
Medical workers,exc technicians	.02	.03	.05	6.84	6.24	6.40	21.33	23.11	22.19
Dentists	.00	.00	.00	.02	.01	.00	.07	.05	.02
Dietitians	.02	.03	.05	.01	.00	.01	.01	.01	.02
Optometrists	.00	.00	.00	.09	.12	.14	.01	.01	.02
Pharmacists	.00	.00	.00	6.67	6.04	6.18	21.08	22.88	21.97
Physicians and osteopaths	.00	.00	.00	.04	.04	.04	.14	.14	.15
Registered nurses	.00	.00	.00	.00	.00	.01	.01	.01	.02
Therapists	.00	.00	.00	.01	.02	.01	.00	.00	.00
Health technolcigists,tecnnicians	.00	.00	.00	.03	.05	.04	.03	.03	.02
Clinical lab technologists,tech	.00	.00	.00	.01	.00	.00	.02	.02	.01
Other health technicians	.00	.00	.00	.02	.04	.04	.01	.02	.01
Technicians,except health	.00	.00	.00	.02	.03	.04	.01	.02	.03
Other technicians except health	.00	.00	.00	.02	.03	.04	.01	.02	.03
Computer specialists	.01	.01	.00	.07	.10	.10	.05	.07	.07
Computer programers	.00	.00	.00	.04	.05	.05	.04	.05	.06
Computer systems analysts	.00	.00	.00	.02	.04	.04	.01	.02	.02
Social scientists	.00	.00	.00	.03	.05	.06	.01	.02	.03
Economists	.00	.00	.00	.03	.05	.06	.01	.01	.03
Teachers	.01	.01	.00	.15	.16	.09	.00	.00	.00
Adult education	.00	.00	.00	.02	.03	.02	.00	.00	.00
Other teachers	.01	.00	.00	.13	.13	.06	.00	.00	.00
Writers,artists,entertainers	.77	1.13	1.09	.48	.70	.70	.15	.18	.15
Actors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Athletes and kindred workers	.00	.00	.00	.05	.07	.06	.06	.05	.01
Authors	.00	.00	.00	.00	.01	.01	.00	.00	.00
Dancers	.11	.12	.13	.00	.00	.00	.00	.00	.00
Designers	.00	.00	.00	.18	.25	.23	.01	.02	.02
Editors and reporters	.00	.00	.00	.03	.04	.04	.02	.03	.04
Musicians and composers	.50	.72	.72	.00	.00	.00	.00	.00	.00
Painters and sculptors	.00	.00	.00	.12	.23	.25	.04	.06	.04
Photographers	.00	.00	.00	.04	.05	.03	.00	.00	.00
Public relations specialists	.02	.04	.04	.04	.06	.06	.02	.03	.04
Other writers,artists,entertain	.12	.22	.18	.01	.01	.01	.00	.00	.00
Other professional and technical	.22	.34	.34	.50	.62	.56	.33	.41	.36
Accountants	.11	.18	.22	.30	.36	.33	.21	.26	.25
Archivists and curators	.00	.00	.00	.04	.06	.04	.00	.00	.00
Lawyers	.01	.03	.05	.01	.03	.03	.01	.03	.02
Librarians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Operations and systems research	.00	.00	.00	.01	.01	.01	.00	.00	.00
Personnel,labor relations wkrs	.09	.12	.07	.12	.13	.10	.10	.12	.08
Other research workers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Managers,officials,proprietors	15.47	12.94	11.24	17.79	21.78	20.37	6.00	6.20	4.29

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Eating and drinking places			Misc retail trade			Drug stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Buyers,sales,loan managers	.25	.32	.33	2.87	2.95	3.18	1.66	1.49	1.15
Bank,financial managers	.02	.02	.01	.04	.04	.03	.03	.03	.01
Credit managers	.01	.01	.02	.17	.09	.05	.03	.02	.02
Buyers,wholesale, retail trade	.09	.12	.12	1.07	1.13	1.15	.75	.63	.44
Sales manager, retail trade	.14	.18	.18	1.59	1.69	1.95	.84	.81	.68
Other managers,officials,proprts	15.22	12.62	10.91	14.92	18.83	17.19	4.34	4.71	3.14
Office managers, other	.04	.07	.09	.44	.48	.56	.08	.09	.08
Restaurant,cafe,bar,managers	15.18	12.55	10.83	.07	.06	.04	.12	.11	.05
Other managers, administrators	.00	.00	.00	14.41	18.29	16.59	4.14	4.52	3.00
Sales workers	1.30	1.60	1.99	33.89	30.22	30.50	34.21	31.04	34.39
Advertising agents,sales worker	.00	.00	.00	.02	.04	.04	.02	.04	.05
Auctioneers	.00	.00	.00	.07	.09	.08	.00	.00	.00
Newspaper carriers and vendors	.00	.00	.00	.08	.10	.17	.00	.00	.00
Other sales workers	1.30	1.59	1.99	33.72	30.00	30.22	34.19	31.00	34.34
Clerical workers	5.76	8.10	8.76	16.35	16.59	18.11	20.36	22.74	24.45
Stenographs,typists,secretaries	.38	.45	.41	2.61	2.65	3.04	1.46	1.54	1.83
Other secretaries	.33	.40	.35	1.91	2.03	2.38	.74	.83	1.05
Stenographers	.00	.00	.00	.03	.02	.01	.01	.01	.02
Typists	.05	.05	.06	.66	.60	.63	.71	.70	.76
Office machine operators	.08	.11	.11	.32	.29	.22	.25	.25	.14
Bookkeeping and billing	.01	.01	.01	.08	.04	.03	.04	.02	.01
Calculating	.01	.01	.01	.03	.02	.02	.03	.02	.01
Computer and peripheral equip	.01	.04	.04	.05	.11	.09	.05	.11	.09
Keypunch	.02	.02	.01	.13	.09	.04	.13	.10	.04
Other office machine operators	.03	.04	.03	.03	.03	.02	.01	.00	.00
Other clerical workers	5.30	7.54	8.25	13.43	13.65	14.86	18.64	20.95	22.48
Billing clerks	.01	.01	.01	.17	.19	.27	.12	.13	.14
Bookkeepers	.84	1.01	.90	4.60	4.40	4.01	3.64	3.75	3.75
Cashiers	3.89	5.78	6.66	4.75	5.13	6.45	11.31	13.62	15.73
Clerical supervisors, other	.02	.03	.03	.07	.09	.09	.03	.04	.04
Collectors, bill and account	.00	.00	.00	.05	.05	.05	.01	.01	.02
Counter clerks,exc food	.12	.15	.10	.25	.28	.34	.25	.26	.24
Dispatchers,starters,vehicle	.01	.01	.02	.09	.07	.05	.01	.01	.01
Estimators,investigators,other	.03	.05	.03	.16	.19	.15	.10	.11	.06
Expediters,prdction controls	.01	.01	.02	.03	.04	.06	.01	.01	.02
File clerks	.02	.02	.03	.18	.15	.13	.17	.15	.14
Mail handlers,exc post office	.01	.01	.01	.21	.20	.19	.35	.34	.23
Messengers and office helpers	.01	.01	.01	.06	.05	.03	.03	.02	.01
Payroll,timekeeping clerks	.05	.09	.10	.07	.08	.09	.08	.10	.11
Receptionists	.04	.05	.04	.37	.37	.40	.10	.08	.03
Shipping and receiving clerks	.03	.04	.05	.42	.43	.52	.39	.44	.63
Statistical clerks	.02	.03	.04	.13	.15	.16	.09	.11	.09
Stock clerks and store keepers	.09	.10	.09	.96	.86	.82	1.40	1.19	.67
Telephone operators	.02	.02	.02	.08	.06	.05	.05	.04	.04
Weighers	.00	.00	.00	.02	.03	.03	.00	.00	.00
Misc clerical workers	.09	.12	.10	.74	.82	.96	.50	.53	.52
Crafts and kindred workers	.63	.85	.83	7.82	8.77	9.88	.70	.85	.97
Construction crafts workers	.09	.11	.10	.40	.40	.40	.09	.08	.06
Carpenters and apprentices	.05	.06	.04	.15	.15	.09	.05	.05	.03
Brick,stonemasons, apprentices	.00	.00	.00	.03	.04	.06	.00	.00	.00
Bulldozer operators	.00	.00	.00	.04	.04	.07	.00	.00	.00
Electricians and apprentices	.01	.01	.02	.03	.03	.03	.01	.01	.02
Excavating,grading mach operatr	.00	.00	.00	.02	.02	.03	.00	.00	.00
Painters and apprentices	.03	.04	.05	.05	.06	.06	.02	.02	.01
Plumbers,pipefitters,aprentices	.00	.00	.00	.06	.05	.04	.00	.00	.00
Tile setters	.00	.00	.00	.01	.01	.02	.00	.00	.00
Blue collar worker supervisors	.10	.17	.22	.60	.70	.73	.37	.46	.57

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Eating and drinking places			Misc retail trade			Drug stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Metalworkg craft wkrs,exc mech	.01	.01	.00	.06	.06	.07	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.02	.03	.03	.00	.00	.00
Sheetmetal workers, apprentices	.00	.00	.00	.02	.02	.02	.00	.00	.00
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.01	.00	.00	.00
Mechanics,repairers,installers	.11	.17	.17	2.51	2.63	3.27	.07	.09	.12
Air cond, heating, refrig mecn	.01	.02	.02	.63	.66	.55	.01	.01	.02
Auto mechanics and apprentices	.02	.03	.02	.20	.18	.17	.01	.01	.01
Data processing mach repairers	.00	.00	.00	.02	.03	.06	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.03	.05	.07	.00	.00	.00
Heavy equip mech, incl diesel	.04	.07	.10	.24	.33	.42	.02	.03	.06
Household appliance mechanics	.00	.00	.00	.21	.17	.13	.01	.01	.02
Office machine repairers	.00	.00	.00	.78	.71	1.26	.00	.00	.00
Radio, television repairers	.00	.00	.00	.03	.02	.02	.01	.01	.02
Other mechanics and apprentices	.04	.05	.04	.37	.48	.59	.00	.00	.00
Printing trade crafts workers	.00	.00	.00	.19	.21	.14	.03	.04	.07
Compositors and typesetters	.00	.00	.00	.06	.06	.03	.02	.03	.04
Engravers exc photoengravers	.00	.00	.00	.10	.12	.07	.00	.00	.00
Press,plate printers,aprentices	.00	.00	.00	.02	.02	.02	.01	.01	.02
Transport,public util craft wkrs	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other crafts, kindred workers	.31	.39	.34	4.07	4.76	5.27	.14	.18	.16
Bakers	.29	.36	.31	.01	.01	.01	.01	.01	.01
Cabinetmakers	.00	.00	.00	.06	.06	.03	.01	.01	.02
Carpet installers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Crane,derrick,hoist operator	.00	.00	.00	.01	.01	.01	.00	.00	.00
Decorators, window dressers	.01	.02	.03	1.98	2.41	2.91	.06	.09	.05
Furniture and wood finishers	.00	.00	.00	.06	.08	.10	.00	.00	.00
Inspectors, other	.00	.00	.00	.01	.02	.02	.00	.00	.00
Jewelers and watchmakers	.00	.00	.00	1.15	1.15	1.09	.01	.01	.03
Opticians,lens grinder,polisaer	.00	.00	.00	.56	.77	.84	.00	.00	.00
Shoe repairers	.00	.00	.00	.01	.00	.01	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.02	.01	.01	.03	.03	.02
Stationary engineers	.01	.00	.00	.02	.02	.02	.00	.00	.00
Stone cutters, stone carvers	.00	.00	.00	.08	.09	.04	.00	.00	.00
Upholsterers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other crafts workers	.00	.00	.00	.07	.09	.13	.00	.00	.00
Operatives	1.08	1.50	1.45	7.60	6.88	6.14	3.64	3.41	3.10
Operatives,except transport	.51	.68	.46	1.47	1.77	1.99	.27	.28	.24
Semiskilled metalworking	.00	.00	.00	.05	.05	.06	.00	.00	.00
Welders and flamecutters	.00	.00	.00	.04	.04	.05	.00	.00	.00
Semiskilled packing, inspecting	.13	.18	.19	.32	.33	.29	.14	.14	.16
Packer,wrapper,exc meat,produce	.13	.18	.19	.30	.31	.28	.14	.14	.16
Produce grdr, pkrs,exc fact,farm	.00	.00	.00	.02	.02	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Eating and drinking places			Misc retail trade			Drug stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	.39	.50	.27	1.10	1.40	1.63	.14	.14	.08
Bottling, canning operatives	.00	.00	.00	.00	.00	.01	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.01	.01	.01	.01	.00	.00
Cutting operatives, other	.00	.00	.00	.02	.03	.05	.00	.00	.00
Dressmakers, exc factory	.01	.01	.01	.08	.11	.11	.00	.00	.00
Filer, polisher, sander, buffer	.00	.00	.00	.05	.05	.04	.00	.00	.00
Garage wrkr, gas station atten	.05	.05	.04	.05	.04	.03	.00	.00	.00
Laundry, dry cleang oprs, other	.01	.01	.01	.00	.00	.01	.00	.00	.00
Meat cutters, butchers, exc mfg	.13	.16	.12	.01	.01	.01	.01	.01	.01
Mixing operatives	.00	.00	.00	.12	.17	.23	.00	.00	.00
Oilers, greasers, exc automobiles	.00	.00	.00	.01	.01	.01	.00	.00	.00
Painters, mfg articles	.00	.00	.00	.01	.01	.02	.00	.00	.00
Photographic process workers	.00	.00	.00	.05	.05	.05	.02	.02	.01
Sawyers	.00	.00	.00	.00	.00	.01	.00	.00	.00
Sewers and stitchers	.00	.00	.00	.02	.02	.04	.00	.00	.00
Winding operatives, other	.00	.00	.00	.00	.01	.01	.00	.00	.00
Miscellaneous machine operatives	.12	.18	.05	.34	.44	.50	.04	.04	.03
Other operatives, exc transport	.06	.07	.04	.32	.42	.48	.05	.06	.03
Transport equipment operatives	.57	.82	1.00	6.13	5.11	4.16	3.37	3.13	2.86
Bus drivers	.00	.00	.00	.00	.01	.01	.01	.01	.01
Delivery and route workers	.37	.51	.59	3.56	3.00	2.86	3.09	2.84	2.62
Fork lift, tow motcr operatives	.01	.01	.00	.07	.09	.10	.08	.10	.09
Parking attendants	.05	.07	.05	.01	.01	.01	.00	.00	.00
Taxicab drivers, chauffeurs	.01	.01	.02	.02	.02	.01	.02	.02	.01
Truck drivers	.13	.22	.35	2.46	1.98	1.18	.17	.17	.13
Service workers	74.50	73.17	73.97	4.45	3.58	3.01	9.49	8.15	7.23
Cleaning service workers	1.77	2.03	1.46	.86	.81	.59	.95	.92	.64
Lodging qtrs cleaners, exc privt	.19	.12	.06	.01	.01	.01	.00	.00	.00
Bldg interior cleaners, other	.63	.76	.47	.35	.36	.30	.33	.34	.25
Janitors and sextons	.95	1.15	.93	.49	.44	.29	.61	.58	.39
Food service wrkrs	71.95	70.36	71.88	3.01	2.09	1.93	8.26	6.93	6.34
Bartenders	5.59	5.55	5.75	.21	.12	.02	.00	.00	.00
Waiters' assistants	2.81	3.73	4.31	.03	.03	.05	.08	.08	.08
Cooks, exc private households	17.26	18.98	21.34	.33	.22	.14	.94	.73	.46
Dishwashers	4.44	3.72	4.10	.11	.06	.05	.33	.21	.15
Food counter, fountain workers	5.43	6.66	7.39	1.22	1.10	1.35	3.80	4.06	4.69
Waiters	31.95	27.39	25.17	1.05	.52	.28	2.97	1.76	.92
Other food serv wrks, exc privt	4.47	4.35	3.81	.06	.04	.04	.14	.10	.06
Health service workers	.02	.03	.02	.06	.05	.04	.14	.16	.10
Health aides, except nursing	.01	.01	.01	.05	.05	.04	.14	.16	.10
Nursing aides and orderlies	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.72	.69	.55	.43	.53	.37	.07	.06	.03
Attendants, recreation, amusement	.02	.03	.03	.00	.00	.01	.00	.00	.00
Attendants, personal serv, other	.12	.12	.09	.01	.01	.02	.00	.00	.00
Child care workers, exc private	.01	.01	.01	.01	.00	.01	.01	.00	.00
Elevator operators	.00	.00	.00	.03	.03	.01	.01	.01	.01
Hairdressers and cosmetologists	.00	.00	.00	.35	.47	.32	.01	.01	.01
Housekeepers, exc private homes	.55	.52	.42	.02	.01	.01	.05	.03	.01
Protective service workers	.05	.07	.06	.10	.10	.08	.07	.09	.12
Guards	.05	.07	.06	.09	.09	.08	.06	.07	.10
Police and detectives	.00	.00	.00	.01	.01	.00	.01	.01	.01
Laborers, except farm	.24	.32	.30	3.87	4.11	3.86	3.63	3.71	2.63
Animal caretakers, exc farm	.00	.00	.00	.12	.17	.19	.00	.00	.00
Carpenter helpers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Constr labr, exc carpenter help	.01	.01	.00	.05	.05	.05	.00	.00	.00
Freight and material handlers	.05	.07	.07	.62	.71	.81	.11	.11	.09
Gardens, groundkeepers, exc farm	.02	.03	.04	.27	.29	.29	.01	.01	.02
Stock handlers	.10	.14	.11	1.89	1.96	1.64	3.32	3.39	2.28
Vehicle washers, equip cleaners	.02	.03	.03	.03	.03	.04	.01	.01	.02
Warehouse labcrers, other	.01	.01	.02	.17	.17	.14	.16	.17	.20
Other laborers	.02	.03	.03	.70	.71	.68	.01	.01	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Liquor stores			Farm, garden supply stores			Jewelry stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.34	.46	.48	1.28	1.60	1.62	1.07	1.33	1.00
Engineers, technical	.00	.00	.00	.04	.03	.01	.00	.00	.00
Sales	.00	.00	.00	.03	.02	.00	.00	.00	.00
Life and physical scientists	.00	.00	.00	.15	.22	.24	.00	.00	.00
Agricultural	.00	.00	.00	.12	.17	.20	.00	.00	.00
Biological	.00	.00	.00	.03	.05	.04	.00	.00	.00
Engineering, science technicians	.00	.00	.00	.14	.18	.27	.00	.00	.00
Agricultural, biol, exc health	.00	.00	.00	.08	.11	.16	.00	.00	.00
Chemical technicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Drafters	.00	.00	.00	.02	.02	.01	.00	.00	.00
Other engineering, science tech	.00	.00	.00	.03	.04	.09	.00	.00	.00
Medical workers, exc technicians	.01	.01	.00	.03	.02	.02	.02	.01	.00
Dietitians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Optometrists	.00	.00	.00	.00	.00	.00	.01	.01	.00
Pharmacists	.01	.01	.00	.00	.00	.00	.01	.00	.00
Veterinarians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Computer specialists	.01	.01	.01	.05	.06	.06	.04	.06	.05
Computer programmers	.01	.01	.01	.04	.05	.05	.03	.04	.03
Computer systems analysts	.00	.00	.00	.00	.00	.00	.02	.03	.02
Other computer specialists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Social scientists	.01	.01	.00	.01	.01	.01	.02	.03	.00
Economists	.01	.01	.00	.01	.01	.01	.02	.03	.00
Teachers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Adult education	.00	.00	.00	.00	.00	.00	.01	.01	.01
Writers, artists, entertainers	.04	.06	.06	.12	.18	.26	.43	.52	.40
Designers	.00	.00	.00	.06	.07	.06	.30	.37	.29
Editors and reporters	.00	.00	.00	.00	.00	.00	.02	.02	.01
Painters and sculptors	.00	.00	.00	.02	.05	.10	.05	.05	.01
Photographers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Public relations specialists	.04	.06	.06	.03	.06	.08	.05	.08	.09
Other professional and technical	.26	.36	.41	.76	.89	.75	.55	.71	.54
Accountants	.15	.19	.22	.53	.64	.53	.41	.53	.44
Architects	.00	.00	.00	.05	.04	.06	.00	.00	.00
Farm management advisors	.00	.00	.00	.02	.02	.04	.00	.00	.00
Lawyers	.02	.06	.09	.01	.01	.00	.01	.02	.01
Personnel, labor relations wkrs	.09	.11	.10	.12	.13	.08	.13	.16	.09
Other research workers	.00	.00	.00	.04	.04	.04	.01	.00	.00
Managers, officials, proprietors	27.42	30.75	30.17	22.12	24.38	24.98	21.02	22.36	22.23
Buyers, sales, loan managers	2.56	2.23	1.19	3.29	3.30	3.63	4.46	3.83	2.13
Bank, financial managers	.03	.02	.01	.04	.06	.08	.06	.05	.01
Credit managers	.02	.01	.01	.12	.08	.07	1.09	.64	.25
Buyers, wholesale, retail trade	1.12	.90	.46	.69	.64	.69	1.33	1.25	.88
Sales manager, retail trade	1.39	1.30	.71	2.43	2.53	2.79	1.97	1.90	1.00
Other managers, officials, proprts	24.87	28.52	28.98	18.83	21.08	21.35	16.56	18.53	20.09
Mgts, superintendents, building	.00	.00	.00	.00	.00	.00	.01	.01	.01
Office managers, other	.09	.09	.05	.66	.77	.95	.50	.53	.32
Restaurant, cafe, bar, managers	.20	.12	.03	.05	.04	.06	.03	.02	.01
Other managers, administrators	24.58	28.31	28.89	18.12	20.26	20.33	16.03	17.98	19.76
Sales workers	49.01	45.16	49.88	22.92	18.31	15.45	39.87	37.70	43.47
Advertising agents, sales worker	.00	.00	.00	.00	.00	.00	.03	.07	.12
Other sales workers	49.00	45.16	49.88	22.92	18.31	15.45	39.84	37.63	43.35
Clerical workers	10.20	11.27	11.58	14.26	14.89	15.89	15.81	16.31	13.76
Stenographers, typists, secretaries	.76	.80	.66	2.90	3.00	3.27	3.01	3.21	3.53
Other secretaries	.58	.63	.49	2.52	2.66	2.99	2.04	2.36	2.75
Stenographers	.00	.00	.00	.05	.02	.01	.02	.02	.02
Typists	.19	.17	.16	.33	.31	.27	.94	.84	.76

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and Projected 1990

	Liquor stores			Farm, garden supply stores			Jewelry stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.11	.11	.07	.24	.26	.21	.36	.32	.20
Bookkeeping and billing	.01	.01	.01	.06	.03	.04	.10	.04	.02
Calculating	.01	.01	.01	.01	.01	.01	.03	.02	.01
Computer and peripheral equip	.01	.02	.03	.05	.12	.09	.04	.13	.13
Keypunch	.07	.05	.01	.10	.09	.06	.16	.11	.02
Other office machine operators	.02	.02	.01	.02	.02	.01	.03	.02	.02
Other clerical workers	9.33	10.36	10.86	11.12	11.63	12.42	12.44	12.79	10.03
Billing clerks	.05	.06	.07	.20	.25	.39	.17	.20	.16
Bookkeepers	2.89	2.92	2.73	7.20	7.15	7.12	6.48	6.53	5.02
Cashiers	4.33	5.46	6.86	1.05	1.20	1.49	1.30	1.53	1.50
Clerical supervisors, other	.00	.00	.00	.06	.08	.07	.11	.12	.11
Collectors, bill and account	.01	.00	.00	.02	.03	.03	.20	.18	.11
Counter clerks, exc food	.20	.23	.18	.19	.22	.28	.12	.11	.12
Dispatchers, starters, vehicle	.01	.01	.01	.04	.06	.08	.00	.00	.00
Estimators, investigators, other	.03	.04	.03	.27	.37	.37	.24	.23	.19
Expeditors, production controls	.00	.00	.00	.04	.05	.09	.02	.02	.01
File clerks	.03	.03	.07	.13	.12	.11	.26	.24	.18
Mail handlers, exc post office	.08	.08	.06	.12	.14	.19	.18	.15	.05
Messengers and office helpers	.02	.02	.04	.03	.03	.02	.23	.21	.05
Payroll, timekeeping clerks	.01	.02	.02	.09	.09	.06	.10	.15	.18
Receptionists	.04	.04	.03	.10	.11	.13	.21	.16	.14
Shipping and receiving clerks	.13	.14	.16	.31	.30	.31	.49	.52	.43
Statistical clerks	.06	.07	.07	.14	.16	.15	.13	.14	.07
Stock clerks and store keepers	1.34	1.10	.38	.48	.51	.61	.76	.73	.45
Telephone operators	.01	.01	.01	.04	.02	.00	.12	.11	.12
Weighers	.00	.00	.00	.15	.18	.24	.00	.00	.00
Misc clerical workers	.12	.14	.14	.47	.56	.67	1.34	1.47	1.16
Crafts and kindred workers	.68	.87	.87	5.58	6.76	8.55	17.86	18.04	17.33
Construction crafts workers	.14	.15	.14	1.07	1.07	1.29	.09	.08	.04
Carpenters and apprentices	.06	.07	.08	.30	.25	.09	.04	.03	.01
Brick, stonemasons, apprentices	.00	.00	.00	.01	.01	.01	.00	.00	.00
Bulldozer operators	.00	.00	.00	.29	.37	.78	.00	.00	.00
Electricians and apprentices	.01	.01	.03	.04	.03	.03	.00	.00	.00
Excavating, grading mach operatr	.00	.00	.00	.12	.12	.17	.00	.00	.00
Floor layers, exc tile setters	.00	.00	.00	.02	.02	.04	.00	.00	.00
Painters and apprentices	.07	.07	.03	.06	.07	.08	.04	.03	.01
Plumbers, pipefitters, apprentices	.00	.00	.00	.24	.19	.11	.01	.01	.01
Blue collar worker supervisors	.33	.42	.41	1.53	1.77	1.72	.48	.63	.74
Metalworkg craft wrkrs, exc meca	.00	.00	.00	.15	.18	.22	.00	.00	.00
Boilermakers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.09	.10	.11	.00	.00	.00
Millwrights	.00	.00	.00	.05	.07	.11	.00	.00	.00
Mechanics, repairers, installers	.13	.16	.17	2.45	3.26	4.85	.08	.07	.03
Air cond, heating, refrig mech	.01	.01	.02	.08	.12	.13	.00	.00	.00
Auto body repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.01	.01	.01	.49	.55	.77	.02	.02	.01
Farm implement mechanics	.00	.00	.00	.38	.56	.94	.00	.00	.00
Heavy equip mech, incl diesel	.05	.08	.12	.95	1.38	2.25	.00	.00	.00
Household appliance mechanics	.01	.01	.01	.05	.07	.09	.04	.03	.01
Office machine repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Radio, television repairers	.01	.01	.01	.01	.01	.01	.02	.01	.01
Other mechanics and apprentices	.05	.04	.01	.47	.56	.65	.01	.01	.01
Printing trade crafts workers	.00	.00	.00	.04	.03	.00	.95	1.10	.52
Compositors and typesetters	.00	.00	.00	.02	.02	.00	.03	.02	.01
Engravers exc photoengravers	.00	.00	.00	.00	.00	.00	.91	1.07	.50
Press, plate printers, apprentices	.00	.00	.00	.01	.01	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Liquor stores			Farm, garden supply stores			Jewelry stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.08	.14	.16	.35	.45	.47	16.26	16.16	16.01
Bakers	.01	.00	.00	.00	.00	.00	.02	.01	.00
Crane, derrick, hoist operator	.00	.00	.00	.01	.01	.01	.00	.00	.00
Decorators, window dressers	.06	.11	.12	.17	.26	.24	.23	.42	.49
Inspectors, other	.01	.02	.03	.03	.04	.03	.03	.03	.02
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	15.85	15.60	15.49
Millers, grain, flour, feed	.00	.00	.00	.03	.04	.03	.00	.00	.00
Opticians, lens grinder, polisher	.00	.00	.00	.01	.01	.00	.04	.03	.01
Sign painters and letterers	.00	.00	.00	.00	.00	.00	.01	.01	.00
Stationary engineers	.01	.01	.01	.02	.02	.01	.00	.00	.00
Other crafts workers	.00	.00	.00	.07	.08	.15	.07	.05	.01
Operatives	3.74	3.93	3.35	20.58	19.99	17.04	1.77	1.80	1.26
Operatives, except transport	.13	.15	.17	5.79	6.95	8.59	1.38	1.44	1.03
Semiskilled metalworking	.00	.00	.00	.21	.23	.24	.00	.00	.01
Punch, stamping press operatives	.00	.00	.00	.00	.00	.00	.00	.00	.01
Welders and flamecutters	.00	.00	.00	.21	.23	.24	.00	.00	.00
Semiskilled packing, inspecting	.11	.13	.16	.72	.68	.50	.64	.73	.75
Packer, wrapper, exc meat, prodce	.11	.13	.16	.59	.54	.33	.64	.73	.75
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.13	.14	.16	.00	.00	.00
Other operatives, exc transport	.02	.02	.01	4.86	6.04	7.85	.74	.71	.27
Filer, polisher, sander, buffer	.00	.00	.00	.00	.00	.00	.40	.36	.13
Garage wrkr, gas station atten	.00	.00	.00	.25	.20	.23	.00	.00	.00
Mixing operatives	.00	.00	.00	1.50	1.91	2.78	.00	.00	.00
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.02	.01	.00
Winding operatives, other	.00	.00	.00	.00	.00	.00	.02	.01	.00
Miscellaneous machine operatives	.00	.00	.00	2.58	3.22	4.00	.13	.15	.08
Other operatives, exc transport	.02	.02	.01	.54	.71	.84	.17	.18	.07
Transport equipment operatives	3.62	3.77	3.19	14.79	13.04	8.45	.39	.36	.24
Delivery and route workers	2.55	2.57	2.19	4.60	4.31	4.20	.27	.22	.07
Fork lift, tow motor operatives	.11	.16	.18	.24	.33	.40	.01	.01	.01
Parking attendants	.01	.01	.00	.00	.00	.00	.01	.01	.00
Taxicab drivers, chauffeurs	.00	.00	.00	.01	.01	.01	.00	.00	.00
Truck drivers	.95	1.03	.82	9.95	8.39	3.84	.10	.12	.15
Service workers	4.51	2.95	1.00	1.21	1.18	.88	1.57	1.51	.68
Cleaning service workers	.89	.80	.29	.83	.87	.74	1.15	1.09	.41
Bldg interior cleaners, other	.33	.32	.13	.32	.37	.38	.67	.70	.32
Janitors and sextons	.56	.48	.16	.52	.50	.35	.49	.40	.09
Food service workers	3.42	1.93	.53	.05	.04	.03	.13	.11	.04
Bartenders	2.41	1.32	.21	.00	.00	.00	.00	.00	.00
Waiters' assistants	.01	.02	.03	.00	.00	.00	.00	.00	.00
Cooks, exc private households	.12	.11	.07	.01	.01	.01	.03	.03	.01
Dishwashers	.00	.00	.00	.01	.01	.01	.03	.02	.01
Food counter, fountain workers	.02	.03	.04	.00	.00	.00	.03	.03	.01
Waiters	.83	.44	.17	.03	.02	.01	.03	.02	.01
Other food serv wkrs, exc privt	.03	.02	.01	.00	.00	.00	.01	.01	.01
Personal service workers	.01	.01	.01	.25	.20	.05	.09	.07	.02
Elevator operators	.01	.01	.01	.24	.19	.04	.06	.04	.01
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Housekeepers, exc private homes	.00	.00	.00	.01	.01	.01	.01	.01	.01
Protective service workers	.19	.22	.17	.08	.08	.06	.20	.24	.21
Guards	.19	.22	.17	.08	.08	.06	.20	.24	.21
Laborers, except farm	4.10	4.61	2.67	12.05	12.89	15.60	1.04	.95	.28
Animal caretakers, exc farm	.00	.00	.00	.06	.08	.07	.00	.00	.00
Carpenter helpers	.00	.00	.00	.05	.05	.09	.00	.00	.00
Constr labr, exc carpenter helpr	.01	.01	.00	.22	.23	.27	.01	.01	.00
Freight and material handlers	.51	.55	.39	4.25	4.96	6.59	.10	.10	.08
Gardenrs, groundkeepers, exc farm	.02	.02	.02	2.29	2.26	2.96	.03	.03	.02
Longshore workers, stevedores	.00	.00	.00	.02	.01	.00	.00	.00	.00
Stock handlers	3.29	3.75	1.99	1.25	1.56	1.71	.77	.71	.14
Vehicle washers, equip cleaners	.04	.03	.01	.00	.00	.00	.03	.03	.01
Warehouse laborers, other	.18	.20	.24	.51	.46	.26	.04	.04	.02
Other laborers	.05	.04	.01	3.41	3.28	3.67	.07	.05	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fuel and ice dealers			Retail florists			Misc retail trade stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.52	1.76	1.69	.74	.76	.35	2.97	3.65	3.63
Engineers, technical	.23	.19	.19	.00	.00	.00	.11	.09	.10
Civil	.03	.03	.04	.00	.00	.00	.00	.00	.00
Industrial	.00	.00	.00	.00	.00	.00	.01	.01	.02
Mechanical	.11	.10	.08	.00	.00	.00	.02	.02	.02
Sales	.05	.05	.08	.00	.00	.00	.04	.03	.01
Other engineers	.02	.02	.01	.00	.00	.00	.03	.03	.06
Life and physical scientists	.00	.00	.00	.27	.25	.07	.00	.00	.00
Agricultural	.00	.00	.00	.27	.25	.07	.00	.00	.00
Engineering, science technicians	.08	.08	.11	.01	.01	.01	.03	.03	.05
Agricultural, biologic, exc health	.00	.00	.00	.01	.01	.01	.00	.00	.00
Drafters	.04	.05	.09	.00	.00	.00	.03	.03	.05
Other engineering, science tech	.04	.03	.03	.00	.00	.00	.00	.00	.00
Medical workers, exc technicians	.00	.00	.00	.01	.00	.00	.30	.38	.42
Optometrists	.00	.00	.00	.00	.00	.00	.26	.33	.37
Pharmacists	.00	.00	.00	.00	.00	.00	.02	.02	.01
Therapists	.00	.00	.00	.00	.00	.00	.03	.04	.04
Health technologists, technicians	.00	.00	.00	.00	.00	.00	.06	.11	.09
Other health technicians	.00	.00	.00	.00	.00	.00	.06	.11	.09
Technicians, except health	.10	.11	.08	.00	.00	.00	.04	.06	.09
Airplane pilots	.02	.03	.04	.00	.00	.00	.01	.01	.00
Radio operators	.05	.05	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.03	.04	.03	.00	.00	.00	.04	.06	.09
Computer specialists	.07	.09	.07	.00	.00	.00	.12	.16	.17
Computer programmers	.04	.05	.04	.00	.00	.00	.06	.08	.08
Computer systems analysts	.02	.03	.02	.00	.00	.00	.05	.08	.08
Other computer specialists	.01	.02	.01	.00	.00	.00	.01	.01	.01
Social scientists	.10	.15	.10	.00	.00	.00	.05	.09	.12
Economists	.10	.15	.10	.00	.00	.00	.05	.09	.12
Teachers	.01	.01	.01	.00	.00	.00	.49	.43	.23
Adult education	.01	.01	.01	.00	.00	.00	.07	.08	.05
Other teachers	.00	.00	.00	.00	.00	.00	.42	.34	.17
Writers, artists, entertainers	.06	.09	.11	.35	.35	.15	1.15	1.55	1.60
Athletes and kindred workers	.00	.00	.00	.00	.00	.00	.11	.15	.16
Authors	.00	.00	.00	.00	.00	.00	.01	.02	.03
Designers	.02	.01	.00	.32	.33	.13	.42	.51	.53
Editors and reporters	.00	.00	.00	.00	.00	.00	.07	.08	.08
Painters and sculptors	.00	.00	.00	.00	.00	.00	.33	.57	.63
Photographers	.00	.00	.00	.02	.01	.01	.12	.12	.07
Public relations specialists	.05	.07	.11	.01	.01	.01	.06	.08	.08
Other writers, artists, entertain	.00	.00	.00	.00	.00	.00	.02	.03	.03
Other professional and technical	.88	1.04	1.02	.11	.14	.11	.63	.76	.76
Accountants	.71	.80	.75	.10	.13	.11	.29	.33	.35
Archivists and curators	.00	.00	.00	.00	.00	.00	.11	.15	.11
Clergy	.00	.00	.00	.00	.00	.00	.01	.01	.02
Home management advisors	.01	.01	.01	.00	.00	.00	.00	.00	.00
Lawyers	.05	.11	.14	.00	.00	.00	.01	.02	.03
Librarians	.00	.00	.00	.00	.00	.00	.02	.03	.03
Operations and systems research	.00	.00	.00	.00	.00	.00	.01	.02	.03
Personnel, labor relations wkrs	.11	.12	.13	.02	.02	.01	.15	.17	.15
Other research workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Vocation, education counselors	.00	.00	.00	.00	.00	.00	.01	.01	.02
Managers, officials, proprietors	18.49	20.57	19.45	21.46	19.93	28.24	24.39	30.54	27.53
Buyers, sales, loan managers	2.54	1.91	1.09	.44	.26	.06	4.24	4.54	6.16
Bank, financial managers	.04	.03	.01	.01	.01	.00	.06	.06	.06
Credit managers	.52	.29	.22	.01	.00	.00	.08	.04	.04
Buyers, wholesale, retail trade	.17	.13	.05	.23	.08	.00	1.79	1.96	2.35
Sales manager, retail trade	1.80	1.47	.81	.21	.16	.06	2.31	2.47	3.71

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fuel and ice dealers			Retail florists			Misc retail trade stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other managers,officials,proprts	15.95	18.66	18.36	21.02	19.67	28.17	20.16	26.00	21.37
Office managers, other	1.42	1.32	.94	.14	.14	.07	.64	.71	1.07
Restaurant,cafe,bar,managers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Other managers, administrators	14.53	17.34	17.42	20.89	19.53	28.10	19.48	25.27	20.27
Sales workers	6.18	6.01	6.16	21.09	18.53	16.82	40.23	33.17	29.35
Advertising agents,sales worker	.00	.00	.00	.00	.00	.00	.04	.05	.04
Auctioneers	.00	.00	.00	.00	.00	.00	.21	.24	.22
Newspaper carriers and vendors	.00	.00	.00	.00	.00	.00	.27	.27	.46
Other sales wrkrs	6.18	6.01	6.16	21.09	18.53	16.82	39.71	32.62	28.64
Clerical workers	20.74	19.53	18.36	8.41	8.57	6.45	14.99	14.80	18.37
Stenographrs,typists,secretaries	4.94	4.79	5.41	1.10	1.27	1.43	3.79	3.59	4.41
Legal secretaries	.00	.00	.00	.00	.00	.00	.01	.01	.02
Medical secretaries	.00	.00	.00	.00	.00	.00	.01	.01	.02
Other secretaries	3.94	3.98	4.65	.73	.93	1.17	2.97	2.89	3.61
Stenographers	.09	.04	.00	.00	.00	.00	.04	.02	.01
Typists	.91	.78	.75	.37	.34	.27	.77	.67	.75
Office machine operators	.91	.74	.40	.05	.04	.02	.35	.34	.33
Bookkeeping and billing	.34	.16	.09	.03	.02	.00	.07	.04	.06
Calculating	.04	.02	.01	.01	.01	.01	.03	.03	.03
Computer and peripheral equip	.16	.32	.23	.00	.00	.00	.05	.11	.11
Duplicating	.02	.01	.01	.00	.00	.00	.01	.01	.02
Keypunch	.26	.18	.07	.01	.01	.01	.13	.10	.06
Tabulating	.03	.01	.00	.00	.00	.00	.01	.00	.01
Other office machine operators	.07	.04	.00	.00	.00	.00	.05	.05	.05
Other clerical workers	14.89	13.99	12.54	7.26	7.27	5.00	10.85	10.87	13.63
Billing clerks	.40	.39	.39	.11	.12	.09	.20	.23	.43
Bookkeepers	9.41	9.09	8.90	5.02	4.99	3.34	3.65	3.30	3.22
Cashiers	.17	.16	.11	.38	.54	.73	1.92	2.14	3.12
Clerical supervisors, other	.23	.24	.17	.01	.01	.01	.11	.13	.17
Collectors, bill and account	.16	.13	.07	.01	.01	.00	.06	.07	.10
Counter clerks,exc food	.23	.21	.15	.33	.32	.14	.32	.36	.56
Dispatchers,starters,vehicle	1.00	.89	.59	.05	.05	.02	.02	.03	.05
Estimators,investigators,other	.23	.20	.05	.08	.07	.02	.21	.26	.22
Expeditors,prcdution cctrlrfs	.11	.09	.04	.02	.02	.01	.05	.06	.12
File clerks	.24	.19	.15	.06	.07	.10	.24	.18	.14
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.02	.02	.01
Mail handlers,exc post office	.08	.06	.03	.11	.10	.02	.18	.20	.27
Messengers and office helpers	.06	.06	.05	.03	.04	.03	.06	.06	.05
Payroll,timekeeping clerks	.14	.17	.21	.01	.01	.01	.06	.07	.08
Receptionists	.32	.22	.05	.23	.17	.05	.86	.83	.98
Shipping and receiving clerks	.13	.15	.24	.07	.06	.01	.67	.61	.72
Statistical clerks	.31	.30	.18	.05	.05	.00	.16	.20	.29
Stock clerks and store keepers	.22	.16	.06	.08	.05	.00	.94	.93	1.40
Telephone operators	.20	.14	.14	.08	.07	.07	.10	.06	.05
Weighers	.08	.06	.02	.00	.00	.00	.01	.01	.02
Misc clerical workers	1.16	1.08	.96	.53	.52	.34	1.03	1.13	1.63
Crafts and kindred workers	15.23	17.92	18.42	33.03	36.82	37.14	8.79	8.94	11.26
Construction crafts workers	1.08	1.04	1.26	.08	.09	.09	.56	.54	.56
Carpenters and apprentices	.15	.16	.21	.08	.09	.09	.26	.24	.13
Brick,stonemasons, apprentices	.01	.01	.00	.00	.00	.00	.10	.11	.16
Bulldozer operators	.17	.15	.13	.00	.00	.00	.01	.00	.00
Electricians and apprentices	.12	.14	.22	.00	.00	.00	.03	.04	.04
Excavating,grading mach operatr	.13	.11	.10	.00	.00	.00	.01	.01	.03
Painters and apprentices	.11	.09	.07	.00	.00	.00	.08	.09	.13
Plumbers,pipefitters,aprentices	.38	.38	.53	.00	.00	.00	.02	.02	.02
Tile setters	.00	.00	.00	.00	.00	.00	.04	.04	.06
Blue collar worker supervisors	1.19	1.33	1.62	.26	.27	.19	.61	.66	.71
Metalworkg craft wrkrs,exc mech	.31	.35	.64	.00	.00	.00	.07	.06	.07
Boilermakers	.05	.06	.13	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.08	.09	.16	.00	.00	.00	.03	.03	.03
Sheetmetal workers, apprentices	.18	.19	.35	.00	.00	.00	.01	.01	.01
Tool and diemakers, apprentices	.00	.00	.00	.00	.00	.00	.01	.01	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fuel and ice dealers			Retail florists			Misc retail trade stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	12.19	14.61	13.92	.06	.07	.05	4.21	3.95	6.05
Air cond, heating, refrig meca	7.82	10.85	11.84	.00	.00	.00	.03	.04	.05
Aircraft mechanics	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto body repairers	.00	.00	.00	.01	.01	.01	.01	.00	.00
Auto mechanics and apprentices	1.31	.99	.45	.03	.03	.01	.17	.17	.23
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.07	.09	.15
Farm implement mechanics	.03	.02	.00	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	.74	.81	.76	.00	.00	.00	.31	.38	.51
Household appliance mechanics	1.89	1.55	.59	.01	.01	.01	.15	.18	.25
Office machine repairers	.00	.00	.00	.01	.01	.01	2.48	1.93	3.40
Radio, television repairers	.07	.07	.10	.01	.01	.01	.05	.03	.01
Other mechanics and apprentices	.34	.30	.16	.00	.00	.00	.95	1.12	1.44
Printing trade crafts workers	.00	.00	.00	.13	.11	.00	.31	.28	.22
Bookbinders	.00	.00	.00	.00	.00	.00	.01	.01	.02
Compositors and typesetters	.00	.00	.00	.10	.09	.00	.13	.11	.05
Engravers exc photoengravers	.00	.00	.00	.03	.03	.00	.11	.11	.10
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Press, plate printers, apprentices	.00	.00	.00	.00	.00	.00	.04	.05	.04
Transport, public util craft wkrs	.00	.00	.00	.00	.00	.00	.02	.02	.03
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.01	.01	.02
Telephone installers, repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts, kindred workers	.46	.59	.98	32.50	36.29	36.81	3.01	3.42	3.62
Bakers	.00	.00	.00	.01	.00	.00	.02	.02	.02
Cabinetmakers	.02	.02	.04	.00	.00	.00	.18	.16	.05
Carpet installers	.00	.00	.00	.00	.00	.00	.02	.02	.05
Crane, derrick, hoist operator	.04	.03	.01	.02	.01	.00	.01	.01	.03
Decorators, window dressers	.16	.31	.61	32.43	36.23	36.76	.18	.28	.25
Furniture and wood finishers	.01	.01	.00	.00	.00	.00	.18	.22	.28
Glaziers	.00	.00	.00	.00	.00	.00	.01	.02	.02
Inspectors, other	.02	.02	.01	.02	.02	.04	.02	.02	.02
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.07	.08	.09
Opticians, lens grinder, polisher	.00	.00	.00	.00	.00	.00	1.78	2.09	2.27
Piano, organ tuners, repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Shoe repairers	.00	.00	.00	.00	.00	.00	.02	.01	.03
Sign painters and letterers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Stationary engineers	.20	.20	.31	.00	.00	.00	.01	.01	.01
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.26	.23	.10
Tailors	.00	.00	.00	.00	.00	.00	.02	.02	.02
Upholsterers	.00	.00	.00	.00	.00	.00	.04	.03	.06
Other crafts workers	.01	.01	.01	.02	.02	.01	.17	.20	.32
Operatives	34.39	31.41	34.37	9.45	9.81	7.71	3.54	3.57	4.10
Operatives, except transport	1.57	1.38	.99	.46	.51	.40	2.11	2.33	2.96
Semiskilled metalworking	.17	.18	.25	.00	.00	.00	.06	.05	.08
Lathe, milling mach operatives	.01	.01	.01	.00	.00	.00	.01	.01	.02
Punch, stamping press operatives	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	.16	.18	.24	.00	.00	.00	.03	.03	.05
Semiskilled packing, inspecting	.06	.04	.01	.35	.38	.35	.44	.38	.32
Packer, wrapper, exc meat, prodce	.06	.04	.01	.28	.33	.34	.44	.38	.32
Produce grdr, pkrs, exc fact, farm	.00	.00	.00	.07	.05	.01	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Fuel and ice dealers			Retail florists			Misc retail trade stores		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	1.34	1.16	.74	.11	.13	.06	1.61	1.90	2.56
Asbestos, insulation workers	.00	.00	.02	.00	.00	.00	.00	.00	.00
Bottling, canning operatives	.00	.00	.00	.00	.00	.00	.01	.01	.03
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Cutting operatives, other	.00	.00	.00	.00	.00	.00	.07	.08	.14
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.26	.31	.30
Filer, polisher, sander, buffer	.00	.00	.00	.00	.00	.00	.06	.06	.09
Garage wrkr, gas station atten	.30	.16	.04	.00	.00	.00	.03	.02	.04
Laundry, dry cleang oprs, other	.00	.00	.00	.00	.00	.00	.01	.01	.02
Meat cutters, butchers, exc mfg	.02	.02	.01	.00	.00	.00	.01	.01	.02
Mixing operatives	.02	.02	.01	.00	.00	.00	.01	.01	.03
Oilers, greasers, exc automobiles	.13	.15	.24	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.02	.02	.06
Photographic process workers	.00	.00	.00	.00	.00	.00	.13	.13	.13
Sawyers	.00	.00	.00	.00	.00	.00	.01	.01	.03
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.05	.05	.10
Furnace tendr, stokr, exc metal	.00	.00	.00	.00	.00	.00	.01	.01	.01
Winding operatives, other	.00	.00	.00	.00	.00	.00	.01	.01	.03
Miscellaneous machine operatives	.33	.30	.18	.00	.00	.00	.28	.33	.46
Other operatives, exc transport	.55	.52	.25	.11	.13	.06	.64	.79	1.05
Transport equipment operatives	32.82	30.03	33.38	8.99	9.31	7.31	1.44	1.23	1.14
Bus drivers	.02	.04	.02	.00	.00	.00	.00	.00	.00
Delivery and route workers	16.20	14.93	19.27	7.98	8.22	6.56	.80	.70	.76
Fork lift, tow motor operatives	.10	.12	.13	.00	.00	.00	.03	.04	.06
Parking attendants	.00	.00	.00	.00	.00	.00	.01	.01	.03
Taxicab drivers, chauffeurs	.10	.06	.00	.06	.05	.01	.02	.02	.01
Truck drivers	16.40	14.88	13.96	.96	1.04	.74	.57	.46	.29
Service workers	.90	.67	.27	.80	.66	.08	2.38	2.38	2.06
Cleaning service workers	.69	.52	.17	.72	.59	.04	.76	.74	.79
Lodging qtrs cleaners, exc privt	.00	.00	.00	.00	.00	.00	.03	.01	.02
Bldg interior cleaners, other	.25	.19	.06	.46	.37	.04	.32	.34	.43
Janitors and sextons	.43	.33	.12	.26	.23	.00	.41	.38	.35
Food service workers	.06	.05	.03	.00	.00	.00	.31	.22	.24
Bartenders	.00	.00	.00	.00	.00	.00	.01	.01	.01
Waiters' assistants	.00	.00	.00	.00	.00	.00	.01	.01	.06
Cooks, exc private households	.03	.02	.01	.00	.00	.00	.06	.04	.02
Dishwashers	.00	.00	.00	.00	.00	.00	.03	.02	.02
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.07	.06	.07
Waiters	.01	.01	.01	.00	.00	.00	.10	.05	.01
Other food serv wkrs, exc privt	.02	.02	.01	.00	.00	.00	.04	.03	.04
Health service workers	.02	.01	.01	.00	.00	.00	.03	.03	.04
Health aides, except nursing	.00	.00	.00	.00	.00	.00	.03	.03	.04
Practical nurses	.02	.01	.01	.00	.00	.00	.00	.00	.00
Personal service workers	.02	.02	.04	.04	.03	.03	1.19	1.32	.95
Attendants, recreation, amusement	.00	.00	.00	.00	.00	.00	.01	.01	.03
Attendants, personal serv, other	.00	.00	.00	.00	.00	.00	.02	.02	.04
Child care workers, exc private	.00	.00	.00	.03	.02	.02	.01	.00	.01
Elevator operators	.01	.01	.03	.01	.01	.01	.02	.02	.01
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	1.12	1.25	.85
Housekeepers, exc private homes	.01	.01	.01	.00	.00	.00	.01	.01	.01
Protective service workers	.12	.07	.02	.03	.03	.01	.09	.08	.04
Guards	.11	.06	.01	.03	.03	.01	.08	.07	.04
Police and detectives	.01	.01	.01	.00	.00	.00	.01	.01	.00
Laborers, except farm	2.56	2.14	1.31	5.03	4.92	3.21	2.70	2.95	3.70
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.37	.44	.49
Carpenter helpers	.02	.01	.01	.02	.02	.03	.01	.01	.03
Constr labr, exc carpenter helpr	.18	.17	.17	.01	.01	.01	.04	.04	.06
Freight and material handlers	1.17	1.01	.62	.12	.10	.02	.31	.34	.55
Gardenrs, groundkeepers, exc farm	.02	.02	.01	.93	.82	.32	.07	.09	.08
Timbercutting, logging workers	.06	.04	.01	.00	.00	.00	.00	.00	.00
Stock handlers	.16	.14	.04	.30	.28	.06	1.21	1.40	1.83
Teamsters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Vehicle washers, equip cleaners	.15	.14	.08	.01	.01	.01	.04	.05	.07
Warehouse labcrs, other	.07	.05	.03	.02	.03	.04	.19	.16	.11
Other laborers	.72	.56	.32	3.63	3.66	2.73	.46	.43	.47

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Finance, insurance, real estate			Finance, total			Banking		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.52	4.80	5.07	4.84	5.50	6.12	4.78	5.39	6.30
Engineers, technical	.21	.17	.20	.07	.07	.11	.06	.06	.11
Civil	.04	.02	.02	.01	.01	.00	.01	.00	.00
Electrical	.01	.01	.01	.01	.01	.01	.00	.00	.00
Industrial	.12	.11	.13	.02	.03	.05	.02	.03	.06
Mechanical	.01	.01	.01	.01	.01	.01	.01	.01	.02
Other engineers	.02	.02	.02	.02	.02	.03	.02	.02	.03
Life and physical scientists	.01	.01	.01	.01	.01	.01	.00	.00	.00
Mathematical specialists	.17	.19	.18	.05	.05	.06	.04	.04	.06
Actuaries	.09	.12	.11	.00	.00	.00	.00	.00	.00
Mathematicians	.02	.01	.01	.00	.00	.00	.00	.00	.00
Statisticians	.06	.05	.06	.05	.05	.06	.03	.03	.06
Engineering, science technicians	.06	.05	.06	.01	.01	.01	.00	.00	.00
Drafters	.03	.03	.03	.00	.00	.00	.00	.00	.00
Surveyors	.02	.02	.02	.00	.00	.00	.00	.00	.00
Other engineering, science tech	.01	.01	.01	.00	.00	.00	.00	.00	.00
Medical workers, exc technicians	.05	.04	.03	.02	.01	.01	.02	.02	.01
Physicians and osteopaths	.01	.01	.01	.00	.00	.00	.00	.00	.00
Registered nurses	.03	.03	.02	.01	.01	.01	.02	.02	.01
Technicians, except health	.02	.03	.02	.01	.01	.01	.00	.00	.00
Airplane pilots	.01	.01	.01	.01	.01	.01	.00	.00	.00
Computer specialists	.75	.81	.90	.81	.99	1.31	.97	1.19	1.60
Computer programmers	.54	.52	.57	.56	.63	.82	.67	.74	.98
Computer systems analysts	.20	.25	.29	.22	.31	.43	.26	.38	.54
Other computer specialists	.02	.04	.04	.03	.05	.06	.04	.07	.09
Social scientists	.20	.29	.42	.32	.51	.77	.29	.49	.85
Economists	.19	.28	.41	.32	.51	.77	.28	.48	.85
Teachers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Adult education	.01	.01	.01	.01	.01	.01	.01	.01	.01
Writers, artists, entertainers	.28	.31	.30	.30	.33	.30	.31	.34	.30
Designers	.01	.02	.02	.01	.01	.01	.02	.02	.01
Editors and reporters	.05	.04	.04	.04	.03	.02	.03	.02	.00
Public relations specialists	.20	.23	.22	.22	.25	.22	.24	.27	.24
Other writers, artists, entertain	.02	.02	.02	.03	.04	.04	.03	.04	.05
Other professional and technical	2.76	2.89	2.94	3.24	3.50	3.53	3.08	3.25	3.35
Accountants	1.72	1.74	1.91	2.20	2.31	2.34	2.11	2.15	2.17
Architects	.01	.01	.01	.00	.00	.00	.00	.00	.00
Farm management advisors	.01	.01	.00	.03	.03	.01	.00	.00	.00
Lawyers	.30	.43	.29	.19	.30	.23	.13	.20	.17
Librarians	.02	.02	.02	.03	.03	.03	.02	.02	.02
Operations and systems research	.14	.18	.21	.15	.23	.31	.18	.28	.40
Personnel, labor relations wkrs	.43	.38	.39	.47	.47	.45	.51	.50	.45
Other research workers	.10	.08	.10	.17	.13	.17	.13	.11	.14
Social workers	.01	.02	.01	.00	.00	.00	.00	.00	.00
Managers, officials, proprietors	19.35	20.14	22.19	26.32	27.60	28.94	25.39	25.84	26.33
Buyers, sales, loan managers	9.92	10.30	12.47	21.65	22.65	25.22	25.01	25.43	25.98
Bank, financial managers	8.88	9.50	11.58	20.59	21.92	24.32	24.52	25.11	25.52
Credit managers	.31	.17	.18	.70	.39	.37	.34	.17	.14
Purchasing agents, buyers, other	.12	.10	.13	.14	.13	.21	.11	.10	.21
Sales manager, exc retail trade	.62	.53	.58	.22	.22	.32	.04	.05	.11
Other managers, officials, proprts	9.43	9.84	9.72	4.68	4.96	3.71	.39	.41	.35
Mgrs, superintendents, building	2.29	2.68	2.75	.06	.08	.15	.05	.07	.14
Office managers, other	1.15	1.09	.89	1.18	1.30	.82	.34	.35	.21
Other managers, administrators	5.98	6.06	6.08	3.44	3.57	2.73	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Finance, insurance, real estate			Finance, total			Banking		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	21.81	24.60	22.80	6.49	5.29	4.31	.57	.57	.87
Advertising agents,sales worker	.02	.03	.04	.01	.01	.03	.01	.01	.02
Insurance agents and brokers	10.78	11.30	10.49	.14	.16	.19	.14	.16	.19
Real estate agents, brokers	8.27	11.04	10.31	.00	.00	.00	.00	.00	.00
Stock and bond sales agents	2.66	2.17	1.85	6.20	4.98	3.87	.30	.29	.50
Other sales workers	.06	.06	.11	.15	.14	.23	.12	.11	.16
Clerical workers	46.17	43.12	43.45	58.62	58.42	57.20	64.77	64.48	62.38
Stenographers,typists,secretaries	14.28	12.00	13.20	12.39	10.99	12.52	10.19	8.70	10.17
Legal secretaries	.10	.07	.10	.08	.07	.12	.05	.05	.09
Medical secretaries	.01	.01	.00	.01	.01	.00	.01	.00	.00
Other secretaries	9.74	8.76	10.10	8.67	8.10	9.70	6.93	6.28	7.88
Stenographers	.31	.17	.08	.27	.15	.06	.26	.13	.05
Typists	4.11	3.00	2.92	3.36	2.67	2.64	2.94	2.24	2.15
Office machine operators	3.07	2.88	3.05	4.59	4.54	5.21	6.20	5.89	6.88
Bookkeeping and billing	.68	.36	.57	1.48	.79	1.19	2.27	1.19	1.77
Calculating	.14	.08	.09	.22	.15	.17	.31	.20	.23
Computer and peripheral equip	.69	1.37	1.59	.99	2.17	2.66	1.26	2.72	3.37
Duplicating	.04	.02	.03	.03	.03	.05	.03	.03	.05
Keypunch	1.27	.84	.55	1.46	1.05	.75	1.78	1.27	.90
Tabulating	.04	.01	.00	.06	.01	.00	.08	.02	.00
Other office machine operators	.23	.20	.22	.36	.35	.40	.48	.47	.56
Other clerical workers	28.82	28.24	27.20	41.64	42.89	39.46	48.38	49.88	45.33
Bank tellers	7.51	8.93	7.85	17.78	20.93	16.69	26.27	30.28	23.87
Billing clerks	.13	.11	.13	.10	.10	.13	.09	.08	.08
Bookkeepers	5.06	4.16	3.38	7.58	6.34	4.83	7.89	6.31	4.70
Cashiers	.70	.62	.51	1.13	1.06	.84	.00	.00	.00
Clerical supervisors, other	.76	.74	.82	.79	.86	1.14	.73	.80	1.14
Collectors, bill and account	.64	.62	.56	1.18	1.19	1.05	.47	.46	.49
Counter clerks,exc food	.13	.11	.13	.19	.17	.21	.07	.07	.15
Dispatchers,starters,vehicle	.01	.01	.01	.01	.01	.01	.01	.01	.01
Estimators,investigators,other	1.59	1.62	1.53	1.99	2.29	2.55	1.65	1.84	2.05
Expeditors,prduction controlrs	.12	.10	.14	.13	.14	.24	.21	.22	.38
File clerks	1.42	.95	.93	1.13	.86	.90	1.27	.96	1.03
Insurance adjusters,examiners	2.61	3.16	3.53	.04	.06	.05	.03	.05	.05
Library attendants, assistants	.04	.03	.02	.04	.05	.03	.05	.06	.04
Mail handlers,exc post office	.50	.40	.39	.56	.50	.60	.62	.57	.76
Messengers and office helpers	.31	.24	.19	.62	.47	.35	.63	.46	.26
Payroll,timekeeping clerks	.18	.17	.12	.22	.19	.11	.24	.20	.09
Real estate appraisers	.42	.47	.49	.25	.30	.47	.17	.19	.32
Receptionists	.72	.61	.65	.70	.65	.83	.60	.56	.82
Shipping and receiving clerks	.06	.04	.04	.06	.05	.03	.05	.03	.01
Statistical clerks	1.42	1.22	1.05	.93	.89	.86	.63	.64	.72
Stock clerks and store keepers	.16	.13	.15	.21	.18	.24	.16	.15	.25
Telephone operators	.38	.19	.12	.47	.21	.06	.45	.18	.03
Misc clerical workers	3.96	3.60	4.46	5.54	5.41	7.25	6.08	5.78	8.08
Crafts and kindred workers	1.73	1.64	1.47	.69	.51	.33	.68	.43	.25
Construction crafts workers	.82	.82	.75	.12	.09	.07	.13	.09	.06
Carpenters and apprentices	.32	.33	.27	.06	.04	.02	.06	.04	.01
Brick,stonemasons, apprentices	.02	.02	.02	.00	.00	.00	.00	.00	.00
Bulldozer operators	.02	.02	.02	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.06	.06	.07	.02	.02	.01	.03	.02	.00
Excavating,grading mach operatr	.03	.02	.03	.00	.00	.00	.00	.00	.00
Painters and apprentices	.31	.31	.26	.03	.03	.04	.04	.03	.05
Plumbers,pipefitters,aprentices	.05	.05	.07	.01	.00	.00	.00	.00	.00
Blue collar worker supervisors	.31	.27	.24	.27	.18	.08	.24	.13	.01
Metalworkg craft wkrs,exc mech	.01	.01	.02	.00	.00	.00	.00	.00	.00
Boilermakers	.01	.01	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Finance, insurance, real estate			Finance, total			Banking		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Mechanics, repairers, installers	.20	.21	.23	.08	.08	.11	.08	.08	.14
Air cond, heating, refrig mech	.04	.05	.06	.01	.02	.02	.02	.02	.03
Auto mechanics and apprentices	.01	.01	.01	.01	.01	.01	.00	.00	.00
Data processing mach repairers	.01	.01	.02	.01	.02	.04	.02	.03	.07
Heavy equip mech, incl diesel	.09	.10	.11	.01	.01	.01	.00	.00	.00
Office machine repairers	.02	.01	.01	.03	.02	.02	.04	.02	.02
Other mechanics and apprentices	.02	.02	.01	.01	.01	.01	.01	.01	.02
Printing trade crafts workers	.12	.10	.08	.12	.08	.04	.13	.09	.03
Compositors and typesetters	.06	.05	.03	.07	.04	.01	.08	.04	.00
Press, plate printers, apprentices	.05	.04	.04	.04	.04	.03	.05	.04	.03
Other crafts, kindred workers	.27	.22	.17	.10	.06	.02	.09	.05	.02
Inspectors, other	.11	.10	.07	.03	.03	.01	.01	.01	.01
Stationary engineers	.14	.11	.09	.07	.03	.01	.08	.04	.01
Operatives	.38	.33	.33	.34	.29	.30	.32	.25	.25
Operatives, except transport	.18	.16	.17	.12	.13	.20	.13	.14	.22
Other operatives, exc transport	.17	.16	.16	.12	.13	.20	.13	.14	.22
Furnace tendr, stokr, exc metal	.04	.03	.02	.01	.01	.01	.01	.01	.01
Miscellaneous machine operatives	.05	.05	.05	.06	.06	.08	.06	.06	.08
Other operatives, exc transport	.05	.06	.07	.05	.06	.11	.05	.06	.13
Transport equipment operatives	.20	.17	.16	.22	.16	.09	.19	.11	.03
Bus drivers	.01	.01	.01	.01	.01	.00	.00	.00	.00
Delivery and route workers	.03	.02	.03	.04	.03	.03	.03	.02	.01
Parking attendants	.04	.03	.01	.07	.04	.01	.10	.05	.00
Taxicab drivers, chauffeurs	.04	.03	.02	.05	.04	.02	.03	.02	.00
Truck drivers	.08	.07	.09	.06	.05	.04	.04	.02	.01
Service workers	4.62	3.94	3.51	2.59	2.29	2.66	3.41	2.96	3.46
Cleaning service workers	3.34	2.89	2.48	1.53	1.36	1.47	2.01	1.74	1.85
Lodging qtrs cleaners, exc privt	.05	.02	.01	.00	.00	.00	.00	.00	.00
Bldg interior cleaners, other	.92	.84	.71	.46	.43	.48	.60	.54	.59
Janitors and sextons	2.37	2.03	1.77	1.07	.93	.99	1.41	1.19	1.27
Food service wrkrs	.22	.14	.12	.18	.11	.11	.25	.16	.15
Cooks, exc private households	.06	.04	.03	.06	.03	.02	.08	.04	.02
Dishwashers	.01	.01	.01	.01	.00	.00	.01	.01	.01
Food counter, fountain workers	.03	.02	.02	.03	.03	.04	.04	.04	.06
Walters	.06	.03	.02	.05	.02	.01	.06	.03	.01
Other food serv wrks, exc privt	.05	.03	.03	.03	.03	.05	.05	.04	.06
Personal service workers	.52	.40	.23	.09	.07	.04	.13	.09	.06
Attendants, recreation, amusement	.01	.01	.00	.00	.00	.00	.00	.00	.00
Attendants, personal serv, other	.14	.10	.06	.02	.02	.02	.04	.03	.04
Elevator operators	.32	.27	.15	.07	.05	.02	.09	.06	.02
Housekeepers, exc private homes	.04	.02	.02	.00	.00	.00	.00	.00	.00
Protective service workers	.54	.52	.68	.79	.75	1.03	1.03	.98	1.40
Guards	.51	.49	.67	.77	.73	1.03	1.00	.96	1.40
Police and detectives	.03	.03	.02	.02	.01	.00	.03	.02	.00
Laborers, except farm	1.43	1.44	1.17	.11	.09	.15	.09	.08	.17
Carpenter helpers	.03	.03	.03	.00	.00	.00	.00	.00	.00
Constr labr, exc carpenter helpr	.06	.05	.03	.01	.01	.02	.01	.01	.02
Freight and material handlers	.02	.02	.02	.01	.01	.00	.00	.00	.00
Gardens, groundkeepers, exc farm	.90	.98	.77	.04	.02	.06	.03	.02	.05
Stock handlers	.03	.03	.03	.05	.04	.06	.04	.05	.08
Other laborers	.38	.32	.29	.01	.01	.01	.01	.01	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Credit agencies			Stock brks, investment companies			Insurance		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	4.21	5.03	4.99	5.91	6.79	7.61	5.76	6.00	5.53
Engineers, technical	.06	.07	.09	.13	.13	.12	.39	.35	.39
Chemical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Civil	.02	.01	.01	.02	.01	.01	.04	.02	.00
Electrical	.01	.01	.01	.02	.02	.02	.01	.01	.01
Industrial	.02	.03	.04	.03	.02	.01	.31	.30	.36
Mechanical	.00	.00	.00	.01	.01	.02	.01	.01	.01
Mining	.00	.00	.00	.01	.01	.01	.00	.00	.00
Petroleum	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other engineers	.02	.02	.03	.03	.02	.02	.03	.02	.01
Life and physical scientists	.02	.03	.02	.02	.02	.02	.00	.00	.00
Agricultural	.01	.02	.00	.00	.00	.00	.00	.00	.00
Chemists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Geologists	.00	.00	.00	.02	.02	.02	.00	.00	.00
Mathematical specialists	.02	.03	.05	.15	.13	.13	.41	.51	.48
Actuaries	.00	.00	.00	.00	.00	.00	.27	.38	.38
Mathematicians	.00	.00	.00	.00	.00	.00	.04	.04	.03
Statisticians	.02	.03	.05	.15	.13	.13	.11	.09	.08
Engineering, science technicians	.01	.01	.02	.02	.02	.03	.06	.05	.05
Drafters	.01	.01	.02	.00	.00	.00	.03	.02	.02
Electrical and electronic	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other engineering, science tech	.00	.00	.00	.02	.02	.03	.01	.01	.01
Medical workers, exc technicians	.01	.01	.01	.01	.01	.00	.09	.08	.08
Physicians and osteopaths	.00	.00	.00	.01	.00	.00	.03	.02	.03
Registered nurses	.01	.01	.01	.00	.00	.00	.05	.05	.05
Therapists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Health technolcists, technicians	.00	.00	.00	.00	.00	.00	.02	.02	.01
Clinical lab technologists, tech	.00	.00	.00	.00	.00	.00	.01	.01	.01
Technicians, except health	.00	.00	.00	.06	.07	.08	.03	.03	.02
Airplane pilots	.00	.00	.00	.04	.05	.06	.01	.01	.01
Radio operators	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other technicians except health	.00	.00	.00	.01	.01	.01	.02	.02	.01
Computer specialists	.45	.59	.75	.68	.81	.90	1.14	1.16	.89
Computer programers	.32	.39	.52	.46	.51	.57	.82	.77	.59
Computer systems analysts	.11	.17	.22	.19	.26	.30	.28	.34	.26
Other computer specialists	.01	.02	.02	.02	.04	.03	.03	.04	.04
Social scientists	.17	.32	.43	.65	.94	1.04	.12	.15	.11
Economists	.17	.32	.43	.65	.94	1.04	.12	.15	.11
Teachers	.01	.00	.02	.00	.00	.00	.01	.01	.01
Adult education	.01	.00	.02	.00	.00	.00	.01	.01	.01
Writers, artists, entertainers	.30	.34	.28	.27	.30	.32	.27	.29	.28
Authors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Designers	.00	.00	.00	.03	.03	.03	.00	.00	.00
Editors and reporters	.04	.04	.01	.09	.10	.13	.07	.07	.06
Public relations specialists	.24	.28	.24	.11	.13	.12	.19	.21	.20
Other writers, artists, entertain	.02	.03	.03	.03	.03	.02	.02	.02	.02
Other professional and technical	3.17	3.64	3.32	3.92	4.38	4.99	3.21	3.36	3.21
Accountants	2.23	2.47	2.43	2.51	2.73	3.03	1.79	1.79	2.03
Farm management advisors	.12	.12	.03	.00	.00	.00	.00	.00	.00
Lawyers	.26	.43	.24	.33	.54	.52	.52	.75	.44
Librarians	.02	.02	.01	.06	.07	.07	.02	.02	.01
Operations and systems research	.06	.09	.11	.17	.24	.26	.21	.25	.18
Personnel, labor relations wkrs	.43	.46	.43	.36	.40	.47	.59	.50	.54
Other research workers	.04	.03	.04	.48	.40	.64	.07	.04	.02
Vocation, education counselors	.01	.01	.01	.01	.01	.01	.00	.00	.00
Managers, officials, proprietors	37.13	37.79	39.64	15.21	18.15	19.59	11.85	12.08	14.76

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Credit agencies			Stock brks, investment companies			Insurance		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Buyers,sales,loan managers	26.83	27.68	33.88	2.11	1.85	1.57	1.69	1.43	1.42
Bank,financial managers	24.22	26.02	31.94	1.02	.89	.50	.34	.27	.29
Credit managers	2.12	1.14	1.08	.12	.07	.10	.03	.01	.01
Purchasing agents,buyers,other	.13	.12	.22	.30	.22	.18	.08	.05	.03
Sales manager, exc retail trade	.37	.40	.64	.67	.66	.79	1.24	1.09	1.09
Other managers,officials,properts	10.30	10.11	5.76	13.10	16.30	18.02	10.15	10.65	13.34
Mgrs, superintendents, building	.10	.11	.22	.06	.06	.06	.07	.07	.05
Office managers, other	3.52	3.90	2.10	1.13	1.11	1.36	1.41	1.23	1.17
Officers,pilots,pursers,ship	.01	.01	.02	.00	.00	.00	.00	.00	.00
Restaurant,cafe,bar,managers	.01	.01	.02	.00	.00	.00	.01	.01	.01
Other managers, administrators	6.67	6.08	3.39	11.91	15.13	16.60	8.66	9.35	12.11
Sales workers	1.18	1.06	1.65	35.82	33.36	29.63	29.97	34.54	33.82
Advertising agents,sales worker	.01	.01	.03	.03	.03	.04	.03	.03	.03
Auctioneers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Insurance agents and brokers	.13	.15	.16	.14	.19	.26	29.88	34.46	33.78
Stock and bond sales agents	.71	.59	.94	35.64	33.12	29.31	.06	.05	.01
Other sales workers	.34	.30	.51	.00	.00	.00	.00	.00	.00
Clerical workers	55.52	54.37	52.10	39.82	38.56	39.55	50.00	45.42	44.33
Stenographrs,typists,secretaries	16.27	14.81	16.45	15.37	14.66	16.97	20.52	17.34	19.05
Legal secretaries	.14	.12	.21	.11	.09	.10	.13	.08	.09
Medical secretaries	.00	.00	.00	.04	.02	.03	.02	.01	.00
Other secretaries	11.47	10.90	12.68	11.39	11.44	13.24	13.04	11.90	13.94
Stenographers	.38	.24	.11	.17	.09	.03	.48	.27	.16
Typists	4.28	3.55	3.46	3.66	3.03	3.57	6.85	5.08	4.86
Office machine operators	1.86	2.18	2.35	2.29	2.57	2.25	3.05	2.79	1.83
Bookkeeping and billing	.31	.17	.25	.12	.05	.03	.12	.04	.04
Calculating	.06	.05	.08	.10	.06	.02	.12	.06	.04
Computer and peripheral equip	.51	1.17	1.37	.67	1.43	1.54	.72	1.33	1.05
Duplicating	.03	.03	.05	.03	.02	.01	.06	.03	.01
Keypunch	.80	.62	.46	1.15	.84	.56	1.78	1.17	.63
Tabulating	.01	.00	.01	.03	.01	.00	.05	.01	.01
Other office machine operators	.14	.14	.14	.19	.16	.09	.20	.15	.06
Other clerical workers	37.40	37.37	33.30	22.17	21.33	20.33	26.44	25.29	23.45
Bank tellers	7.46	8.87	6.13	.00	.00	.00	.00	.00	.00
Billing clerks	.09	.10	.21	.15	.15	.23	.22	.20	.23
Bookkeepers	8.72	7.32	5.18	4.91	4.80	4.82	3.56	2.77	1.87
Cashiers	3.71	3.33	2.50	1.86	1.88	1.86	.51	.40	.21
Clerical supervisors, other	.80	.93	1.14	.97	1.03	1.14	1.12	1.04	.85
Collectors, bill and account	3.96	3.77	2.88	.06	.05	.04	.20	.16	.11
Counter clerks,exc food	.04	.05	.08	.84	.78	.84	.04	.03	.02
Dispatchers,starters,vehicle	.00	.00	.00	.02	.02	.03	.02	.02	.02
Estimators,investigators,other	3.46	4.08	4.39	1.25	1.25	1.21	1.57	1.33	.52
Expeditors,production controls	.00	.00	.00	.00	.00	.00	.16	.12	.06
File clerks	.78	.59	.44	1.11	.91	1.15	2.53	1.71	1.58
Insurance adjusters,examiners	.08	.11	.07	.02	.02	.01	7.34	9.79	11.59
Library attendants, assistants	.01	.02	.01	.05	.05	.01	.06	.05	.01
Mail handlers,exc post office	.26	.24	.24	.73	.63	.51	.69	.52	.30
Messengers and office helpers	.13	.09	.03	1.22	1.17	1.53	.10	.08	.05
Payroll,timekeeping clerks	.17	.16	.07	.18	.21	.33	.21	.21	.19
Real estate appraisers	.65	.77	1.04	.01	.01	.01	.15	.13	.08
Receptionists	.82	.76	.85	.91	.82	.89	.70	.56	.47
Shipping and receiving clerks	.03	.02	.01	.18	.18	.19	.06	.05	.07
Statistical clerks	.55	.59	.59	2.54	2.55	2.32	2.80	2.50	2.05
Stock clerks and store keepers	.07	.06	.08	.58	.52	.54	.17	.11	.06
Telephone operators	.35	.17	.04	.72	.42	.28	.32	.19	.16
Misc clerical workers	5.27	5.35	7.33	3.88	3.89	2.38	3.91	3.33	2.95
Crafts and kindred workers	.59	.48	.24	.87	.90	.99	.96	.84	.74

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Credit agencies			Stock brks, investment companies			Insurance		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Construction crafts workers	.09	.07	.06	.13	.13	.13	.13	.10	.09
Carpenters and apprentices	.06	.04	.01	.07	.07	.06	.05	.04	.04
Electricians and apprentices	.01	.01	.02	.03	.03	.03	.03	.02	.03
Painters and apprentices	.02	.02	.02	.03	.02	.01	.04	.03	.01
Plumbers, pipefitters, apprentices	.01	.00	.00	.01	.02	.04	.01	.01	.01
Blue collar worker supervisors	.27	.21	.06	.35	.38	.54	.29	.27	.25
Metalworkg craft wrkrs, exc meca	.01	.01	.00	.01	.01	.02	.00	.00	.00
Blacksmiths	.01	.01	.00	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.01	.01	.02	.00	.00	.00
Mechanics, repairers, installers	.04	.04	.06	.13	.16	.12	.09	.07	.05
Air cond, heating, refrig meca	.00	.00	.00	.03	.05	.03	.02	.02	.01
Auto mechanics and apprentices	.01	.01	.01	.02	.02	.01	.01	.01	.01
Data processing mach repairers	.00	.00	.00	.01	.02	.01	.01	.01	.01
Heavy equip mech, incl diesel	.01	.02	.03	.03	.04	.04	.03	.02	.00
Household appliance mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Office machine repairers	.02	.01	.02	.01	.01	.01	.02	.01	.01
Other mechanics and apprentices	.00	.00	.00	.02	.02	.01	.00	.00	.00
Printing trade crafts workers	.09	.08	.04	.09	.10	.12	.18	.17	.16
Bookbinders	.01	.01	.03	.00	.00	.00	.01	.01	.01
Compositors and typesetters	.05	.04	.00	.06	.06	.07	.09	.08	.07
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Press, plate printers, apprentices	.04	.03	.02	.04	.04	.06	.07	.07	.07
Transport, public util craft wrkrs	.00	.01	.00	.03	.02	.02	.00	.00	.00
Telephone installers, repairers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other crafts, kindred workers	.09	.07	.02	.14	.10	.04	.28	.24	.19
Inspectors, other	.07	.06	.01	.06	.05	.02	.23	.20	.16
Stationary engineers	.02	.02	.01	.07	.05	.02	.04	.03	.03
Operatives	.18	.20	.26	.65	.61	.65	.21	.18	.16
Operatives, except transport	.09	.11	.19	.16	.15	.13	.12	.10	.06
Other operatives, exc transport	.09	.11	.19	.16	.15	.13	.12	.10	.06
Photographic process workers	.01	.01	.02	.00	.00	.00	.02	.01	.00
Furnace tendr, stokr, exc metal	.01	.01	.02	.01	.01	.01	.01	.01	.01
Miscellaneous machine operatives	.04	.05	.07	.06	.06	.06	.06	.05	.04
Other operatives, exc transport	.04	.05	.08	.08	.08	.06	.03	.02	.02
Transport equipment operatives	.09	.09	.06	.49	.46	.52	.09	.08	.09
Bus drivers	.02	.03	.00	.00	.00	.00	.00	.00	.00
Delivery and route workers	.01	.01	.01	.13	.11	.15	.02	.01	.02
Parking attendants	.03	.03	.02	.00	.00	.00	.01	.01	.01
Taxicab drivers, chauffeurs	.01	.01	.01	.16	.15	.14	.02	.02	.02
Truck drivers	.01	.01	.02	.19	.19	.23	.04	.04	.05
Service workers	1.14	1.05	1.04	1.44	1.40	1.80	1.14	.84	.60
Cleaning service workers	.93	.87	.91	.53	.51	.57	.76	.59	.41
Bldg interior cleaners, other	.29	.29	.36	.16	.16	.15	.27	.24	.22
Janitors and sextons	.64	.58	.56	.37	.35	.42	.49	.35	.19
Food service wrkrs	.05	.04	.05	.06	.05	.07	.20	.12	.06
Cooks, exc private households	.02	.01	.01	.03	.03	.03	.04	.02	.01
Dishwashers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.04	.03	.02
Waiters	.01	.01	.01	.03	.02	.03	.05	.02	.02
Other food serv wrkrs, exc privt	.01	.01	.03	.00	.00	.00	.06	.03	.01
Health service workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Practical nurses	.00	.00	.00	.00	.00	.00	.01	.01	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Credit agencies			Stock brks, investment companies			Insurance		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.03	.03	.02	.06	.05	.02	.07	.05	.02
Attendants, personal serv, other	.00	.00	.00	.00	.00	.00	.02	.01	.01
Elevator operators	.03	.03	.02	.06	.05	.02	.04	.03	.01
Housekeepers, exc private homes	.00	.00	.00	.00	.00	.00	.01	.01	.00
Protective service workers	.13	.11	.07	.80	.80	1.13	.10	.09	.10
Guards	.13	.11	.07	.76	.77	1.12	.09	.08	.10
Police and detectives	.00	.00	.00	.03	.03	.02	.00	.00	.00
Laborers, except farm	.05	.03	.09	.28	.24	.19	.13	.10	.07
Constr labr, exc carpenter helpr	.00	.00	.00	.04	.03	.02	.01	.01	.01
Freight and material handlers	.00	.00	.00	.04	.03	.03	.01	.01	.01
Gardenrs, groundkeepers, exc farm	.05	.03	.09	.04	.04	.03	.07	.05	.04
Stock handlers	.00	.00	.00	.14	.11	.08	.02	.01	.00
Other laborers	.00	.00	.00	.03	.02	.03	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Real estate			Services, total			Hotels and lodging places		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.97	2.08	2.31	34.24	35.31	32.24	2.52	3.15	3.05
Engineers, technical	.17	.13	.15	.68	.73	.79	.06	.06	.04
Aeronautical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Chemical	.00	.00	.00	.02	.02	.02	.00	.00	.00
Civil	.08	.06	.07	.17	.16	.16	.01	.01	.00
Electrical	.01	.01	.02	.15	.17	.16	.02	.02	.02
Industrial	.02	.02	.01	.07	.09	.12	.00	.00	.00
Mechanical	.03	.02	.02	.10	.12	.13	.02	.03	.02
Other engineers	.03	.02	.03	.14	.15	.17	.00	.00	.00
Life and physical scientists	.01	.01	.01	.28	.37	.39	.00	.00	.00
Agricultural	.00	.00	.00	.01	.02	.02	.00	.00	.00
Atmospheric and space	.00	.00	.00	.01	.01	.01	.00	.00	.00
Biological	.00	.00	.00	.08	.14	.14	.00	.00	.00
Chemists	.00	.00	.00	.10	.11	.14	.00	.00	.00
Geologists	.01	.01	.01	.02	.02	.02	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.05	.05	.04	.00	.00	.00
Mathematical specialists	.01	.01	.01	.04	.04	.06	.00	.00	.00
Actuaries	.00	.00	.00	.01	.01	.01	.00	.00	.00
Mathematicians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Statisticians	.01	.01	.01	.02	.02	.03	.00	.00	.00
Engineering, science technicians	.17	.14	.20	.81	.91	.97	.01	.01	.01
Agricultural, biol, exc health	.00	.00	.00	.03	.03	.02	.00	.00	.00
Chemical technicians	.00	.00	.00	.05	.05	.06	.00	.00	.00
Drafters	.09	.07	.11	.34	.36	.38	.00	.00	.00
Electrical and electronic	.00	.00	.00	.08	.10	.11	.00	.00	.00
Surveyors	.07	.05	.06	.11	.14	.15	.00	.00	.00
Other engineering, science tech	.02	.02	.03	.20	.22	.23	.01	.01	.01
Medical workers, exc technicians	.03	.03	.02	5.97	6.37	6.95	.08	.08	.07
Chiropractors	.00	.00	.00	.08	.07	.06	.00	.00	.00
Dentists	.00	.00	.00	.45	.44	.44	.00	.00	.00
Dietitians	.00	.00	.00	.14	.12	.13	.01	.01	.01
Optometrists	.00	.00	.00	.08	.07	.07	.00	.00	.00
Pharmacists	.00	.00	.00	.07	.07	.08	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	1.37	1.36	1.39	.00	.00	.00
Podiatrists	.00	.00	.00	.03	.03	.04	.00	.00	.00
Registered nurses	.03	.02	.02	3.37	3.61	4.08	.06	.05	.04
Therapists	.01	.01	.00	.37	.58	.64	.01	.01	.01
Veterinarians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other medical and health tech	.00	.00	.00	.00	.03	.03	.00	.00	.00
Health technologists, technicians	.00	.00	.00	1.28	1.83	1.85	.00	.00	.00
Clinical lab technologists, tech	.00	.00	.00	.62	.79	.74	.00	.00	.00
Dental hygienists	.00	.00	.00	.08	.13	.19	.00	.00	.00
Health record technologist, tech	.00	.00	.00	.06	.06	.06	.00	.00	.00
Radiologic technologists, tech	.00	.00	.00	.25	.38	.40	.00	.00	.00
Therapy assistants	.00	.00	.00	.02	.03	.03	.00	.00	.00
Other health technicians	.00	.00	.00	.27	.45	.44	.00	.00	.00
Technicians, except health	.04	.04	.05	.09	.13	.15	.00	.00	.00
Airplane pilots	.02	.03	.03	.01	.01	.02	.00	.00	.00
Embalmers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Flight engineers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Radio operators	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other technicians except health	.00	.00	.00	.05	.08	.11	.00	.00	.00
Computer specialists	.05	.06	.07	.37	.53	.59	.02	.02	.04
Computer programmers	.04	.04	.04	.25	.31	.34	.01	.01	.03
Computer systems analysts	.02	.02	.04	.11	.18	.22	.01	.01	.00
Other computer specialists	.00	.00	.00	.02	.04	.03	.00	.00	.01
Social scientists	.08	.10	.12	.23	.53	.59	.01	.02	.02
Economists	.05	.06	.07	.07	.11	.15	.01	.01	.02
Political scientists	.01	.01	.02	.01	.01	.01	.00	.00	.00
Psychologists	.00	.00	.00	.13	.38	.40	.00	.00	.00
Sociologists	.00	.00	.00	.00	.01	.01	.00	.00	.00
Urban and regional planners	.02	.03	.03	.01	.02	.01	.00	.00	.00
Other social scientists	.00	.00	.00	.01	.01	.02	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Real estate			Services, total			Hotels and lodging places		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Teachers	.00	.00	.00	15.46	13.49	10.14	.21	.12	.12
Adult education	.00	.00	.00	.18	.24	.23	.00	.00	.00
College and university	.00	.00	.00	2.08	2.15	1.43	.00	.00	.00
Elementary school	.00	.00	.00	6.20	5.01	4.52	.00	.00	.00
Preschool and kindergarten	.00	.00	.00	.82	.87	.80	.12	.07	.08
Secondary school	.00	.00	.00	5.33	4.42	2.52	.00	.00	.00
Other teachers	.00	.00	.00	.85	.79	.65	.10	.05	.04
Writers, artists, entertainers	.27	.30	.33	1.94	2.47	2.16	.61	.81	.86
Actors	.00	.00	.00	.05	.04	.05	.00	.00	.00
Athletes and kindred workers	.00	.00	.00	.20	.32	.26	.01	.01	.02
Authors	.00	.00	.00	.08	.11	.09	.00	.00	.00
Dancers	.00	.00	.00	.02	.01	.01	.02	.02	.04
Designers	.04	.04	.05	.15	.18	.16	.01	.02	.02
Editors and reporters	.02	.02	.04	.15	.15	.12	.01	.01	.01
Musicians and composers	.00	.00	.00	.43	.45	.47	.38	.49	.59
Painters and sculptors	.00	.00	.00	.31	.50	.42	.01	.01	.01
Photographers	.01	.01	.02	.21	.24	.19	.01	.01	.01
Public relations specialists	.20	.22	.22	.16	.21	.20	.08	.11	.09
Other writers, artists, entertain	.01	.00	.00	.18	.26	.20	.09	.12	.09
Other professional and technical	1.15	1.26	1.37	7.10	7.91	7.61	1.51	2.03	1.89
Accountants	.70	.73	.85	1.20	1.38	1.47	.88	1.20	1.10
Architects	.06	.04	.06	.24	.22	.27	.00	.00	.00
Archivists and curators	.00	.00	.00	.02	.03	.03	.00	.00	.00
Clergy	.00	.00	.00	1.16	.96	.78	.02	.01	.01
Religious workers, except clergy	.00	.00	.00	.21	.22	.21	.00	.01	.01
Farm management advisors	.00	.00	.00	.03	.03	.02	.00	.00	.00
Home management advisors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Lawyers	.16	.24	.22	1.12	1.27	1.28	.01	.02	.01
Librarians	.01	.01	.01	.51	.51	.43	.00	.00	.00
Operations and systems research	.01	.02	.02	.03	.05	.06	.01	.01	.01
Personnel, labor relations wkrs	.09	.08	.07	.48	.64	.63	.12	.14	.10
Other research workers	.04	.03	.05	.34	.32	.30	.01	.01	.01
Recreation workers	.03	.04	.04	.24	.39	.40	.43	.61	.61
Social workers	.04	.07	.05	1.00	1.25	1.18	.02	.03	.03
Vocation, education counselors	.01	.01	.01	.50	.62	.53	.01	.01	.01
Managers, officials, proprietors	18.04	17.73	18.09	6.26	7.39	7.30	15.32	16.37	13.61
Buyers, sales, loan managers	.81	.68	.74	.27	.31	.44	.25	.29	.23
Bank, financial managers	.26	.22	.21	.06	.07	.08	.00	.00	.00
Credit managers	.02	.01	.02	.03	.02	.02	.03	.02	.01
Purchasing agents, buyers, other	.13	.10	.10	.11	.12	.19	.12	.14	.13
Sales manager, exc retail trade	.40	.36	.41	.08	.10	.15	.10	.13	.09
Administrators, public inspectors	.00	.00	.00	1.52	1.90	1.79	.00	.00	.00
Health administrators	.00	.00	.00	.48	.68	.81	.00	.00	.00
School administrators, college	.00	.00	.00	.19	.21	.17	.00	.00	.00
School admin, elem, secondary	.00	.00	.00	.84	1.02	.82	.00	.00	.00
Other managers, officials, proprt	17.23	17.05	17.35	4.46	5.18	5.07	15.07	16.09	13.39
Funeral directors	.00	.00	.00	.19	.15	.11	.00	.00	.00
Mgrs, superintendents, building	10.01	10.36	11.70	.03	.05	.06	.16	.17	.20
Office managers, other	.67	.58	.65	.27	.34	.48	.18	.21	.18
Officials of lodges, unions	.00	.00	.00	.32	.30	.24	.00	.00	.00
Restaurant, cafe, bar, managers	.02	.01	.01	.20	.20	.16	.58	.62	.43
Other managers, administrators	6.54	6.10	5.00	3.45	4.14	4.01	14.14	15.08	12.58
Sales workers	37.81	44.57	46.42	.61	.66	.80	.28	.32	.35
Advertising agents, sales worker	.03	.04	.07	.13	.14	.14	.01	.01	.01
Auctioneers	.02	.02	.03	.01	.01	.01	.00	.00	.00
Hucksters and peddlers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Insurance agents and brokers	.71	.82	.87	.00	.00	.00	.00	.00	.00
Real estate agents, brokers	36.93	43.58	45.34	.00	.00	.00	.00	.00	.00
Stock and bond sales agents	.12	.11	.11	.00	.00	.00	.00	.00	.00
Other sales workers	.00	.00	.00	.44	.49	.63	.28	.31	.34
Clerical workers	16.65	14.44	13.84	16.76	18.57	20.92	13.21	15.05	14.16
Stenographers, typists, secretaries	7.99	6.93	6.83	6.98	7.37	8.58	1.45	1.69	1.72
Legal secretaries	.08	.06	.05	.43	.54	.59	.00	.00	.00
Medical secretaries	.00	.00	.00	.37	.30	.51	.00	.00	.00
Other secretaries	6.56	5.89	5.85	4.68	5.15	6.08	1.21	1.44	1.50
Stenographers	.13	.07	.02	.17	.11	.07	.02	.01	.01
Typists	1.22	.92	.92	1.33	1.27	1.32	.23	.23	.21

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Real estate			Services, total			Hotels and lodging places		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	.26	.22	.21	.63	.80	.70	.17	.19	.22
Bookkeeping and billing	.04	.02	.01	.04	.03	.03	.04	.03	.03
Calculating	.01	.01	.01	.02	.01	.01	.02	.02	.02
Computer and peripheral equip	.05	.09	.11	.16	.38	.36	.01	.04	.05
Duplicating	.01	.01	.01	.03	.03	.04	.00	.00	.00
Keypunch	.11	.07	.04	.31	.26	.18	.04	.03	.03
Other office machine operators	.03	.02	.03	.07	.08	.07	.06	.07	.10
Other clerical workers	8.40	7.29	6.80	9.15	10.41	11.65	11.58	13.18	12.22
Billing clerks	.03	.02	.01	.08	.10	.18	.04	.04	.04
Bookkeepers	2.69	2.24	2.38	1.43	1.49	1.54	1.77	1.90	2.00
Cashiers	.18	.18	.21	.54	.62	.73	1.57	2.08	2.37
Clerical assistant, soc welfare	.00	.00	.00	.01	.14	.12	.00	.00	.00
Clerical supervisors, other	.13	.13	.14	.16	.21	.29	.04	.05	.04
Collectors, bill and account	.32	.25	.13	.07	.08	.09	.11	.10	.12
Counter clerks, exc food	.15	.13	.12	.79	.72	.69	5.29	6.18	5.30
Dispatchers, starters, vehicle	.01	.01	.01	.03	.03	.05	.01	.01	.01
Enumerators and interviewers	.00	.00	.00	.08	.08	.14	.00	.00	.00
Estimators, investigators, other	.89	.86	.79	.22	.31	.31	.10	.09	.07
Expeditors, production controls	.02	.03	.04	.03	.03	.05	.01	.01	.02
File clerks	.22	.15	.13	.29	.27	.29	.05	.05	.06
Insurance adjusters, examiners	.02	.02	.02	.02	.02	.01	.00	.00	.00
Library attendants, assistants	.00	.00	.00	.54	.60	.54	.00	.00	.00
Mail handlers, exc post office	.08	.06	.06	.15	.16	.19	.05	.05	.03
Messengers and office helpers	.06	.05	.04	.09	.10	.08	.03	.03	.03
Payroll, timekeeping clerks	.08	.07	.07	.12	.14	.15	.20	.28	.24
Real estate appraisers	1.16	1.17	1.07	.00	.01	.01	.00	.00	.00
Receptionists	.78	.61	.50	1.37	1.61	1.66	.57	.67	.53
Shipping and receiving clerks	.02	.02	.02	.06	.06	.06	.04	.04	.05
Statistical clerks	.19	.17	.12	.23	.29	.37	.07	.08	.07
Stock clerks and store keepers	.07	.06	.07	.20	.20	.27	.15	.16	.14
Teachers aides, exc monitors	.00	.00	.00	.91	1.26	1.48	.00	.00	.00
Telephone operators	.29	.17	.18	.38	.28	.27	1.16	.94	.70
Misc clerical workers	1.05	.90	.71	1.36	1.58	2.07	.33	.41	.39
Crafts and kindred workers	4.90	4.55	4.81	4.83	5.15	5.12	2.51	2.69	2.42
Construction crafts workers	3.25	2.96	3.02	.81	.78	.81	1.23	1.27	1.02
Carpenters and apprentices	1.24	1.17	1.08	.32	.27	.22	.45	.45	.31
Brick, stonemasons, apprentices	.07	.06	.07	.01	.01	.01	.02	.02	.02
Bulldozer operators	.08	.06	.10	.01	.01	.02	.02	.02	.02
Cement and concrete finishers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.17	.17	.23	.14	.14	.16	.14	.16	.15
Excavating, grading mach operatr	.12	.09	.12	.01	.02	.02	.00	.00	.00
Painters and apprentices	1.26	1.13	1.07	.19	.22	.26	.47	.51	.42
Paperhangers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Plasterers and apprentices	.03	.02	.01	.01	.01	.01	.01	.01	.01
Plumbers, pipefitters, apprentices	.20	.19	.27	.10	.09	.10	.11	.10	.08
Roofers and slaters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.03	.02	.01	.01	.01	.01	.00	.00	.00
Tile setters	.02	.01	.02	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	.42	.44	.56	.28	.32	.35	.22	.27	.30
Metalworkg craft wrkrs, exc mech	.04	.04	.06	.10	.12	.12	.00	.00	.00
Blacksmiths	.00	.00	.00	.02	.03	.01	.00	.00	.00
Boilermakers	.03	.03	.05	.01	.01	.02	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.05	.06	.07	.00	.00	.00
Sheetmetal workers, apprentices	.01	.01	.01	.01	.01	.01	.00	.00	.00
Mechanics, repairers, installers	.61	.63	.69	2.54	2.88	2.91	.40	.50	.55
Air cond, heating, refrig meca	.12	.15	.19	.11	.14	.13	.05	.08	.06
Aircraft mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto accessories installers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto body repairers	.00	.00	.00	.38	.40	.38	.00	.00	.00
Auto mechanics and apprentices	.03	.02	.01	1.02	1.20	1.15	.02	.03	.03
Data processing mach repairers	.00	.00	.00	.06	.09	.16	.00	.00	.00
Farm implement mechanics	.00	.00	.00	.03	.04	.04	.00	.00	.00
Heavy equip mech, incl diesel	.35	.37	.43	.21	.29	.36	.20	.26	.32
Household appliance mechanics	.04	.03	.03	.12	.11	.12	.01	.02	.03
Office machine repairers	.00	.00	.00	.06	.05	.06	.00	.00	.00
Radio, television repairers	.00	.00	.00	.27	.20	.21	.03	.02	.02
Other mechanics and apprentices	.06	.05	.04	.26	.32	.27	.07	.09	.10

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Real estate			Services, total			Hotels and lodging places		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Printing trade crafts workers	.02	.02	.03	.07	.08	.08	.02	.02	.02
Compositors and typesetters	.01	.01	.01	.03	.03	.03	.01	.01	.01
Press,plate printers,apprentices	.01	.01	.02	.03	.03	.04	.00	.01	.01
Transport,public util craft wkrs	.00	.00	.00	.03	.04	.02	.00	.00	.00
Telephone installers,repairers	.00	.00	.00	.03	.04	.02	.00	.00	.00
Other crafts, kindred workers	.56	.46	.45	1.00	.95	.82	.66	.63	.54
Bakers	.00	.00	.00	.07	.07	.05	.11	.12	.11
Cabinetmakers	.01	.01	.01	.03	.03	.01	.01	.01	.01
Carpet installers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Crane,derrick,hoist operator	.01	.01	.01	.01	.01	.01	.00	.00	.00
Decorators, window dressers	.00	.00	.00	.04	.05	.03	.01	.02	.02
Dental laboratory technicians	.00	.00	.00	.13	.16	.18	.00	.00	.00
Furniture and wood finishers	.00	.00	.00	.02	.03	.02	.01	.01	.01
Glaziers	.01	.01	.02	.01	.01	.01	.00	.00	.00
Inspectors, other	.06	.08	.07	.08	.09	.07	.05	.06	.05
Jewelers and watchmakers	.00	.00	.00	.03	.04	.03	.00	.00	.00
Motion picture projectionists	.00	.00	.00	.08	.04	.03	.00	.00	.00
Opticians,lens grinder,polisher	.00	.00	.00	.01	.02	.02	.00	.00	.00
Piano,organ tuners, repairers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Shoe repairers	.00	.00	.00	.10	.07	.05	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.06	.06	.05	.00	.00	.00
Stationary engineers	.45	.34	.34	.13	.11	.11	.37	.32	.26
Tailors	.00	.00	.00	.05	.03	.01	.01	.01	.01
Upholsterers	.00	.00	.00	.09	.08	.08	.03	.02	.02
Other crafts workers	.01	.01	.01	.03	.03	.03	.05	.05	.06
Operatives	.71	.60	.63	3.93	3.47	3.27	1.81	1.96	1.66
Operatives,except transport	.37	.30	.25	3.04	2.57	2.53	1.43	1.47	1.22
Semiskilled metalworking	.02	.02	.03	.24	.28	.20	.00	.00	.00
Grinding machine operatives	.00	.00	.00	.01	.01	.01	.00	.00	.00
Welders and flamecutters	.02	.02	.03	.22	.26	.19	.00	.00	.00
Semiskilled packing, inspecting	.01	.01	.01	.07	.07	.05	.01	.01	.01
Packer,wrapper,exc meat,prodce	.01	.01	.01	.07	.07	.05	.01	.01	.01
Other operatives, exc transport	.34	.27	.21	2.74	2.22	2.28	1.42	1.46	1.21
Assemblers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Surveyors' helpers	.01	.00	.00	.02	.03	.02	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.64	.31	.21	.17	.20	.26
Cutting operatives, other	.00	.00	.00	.01	.01	.02	.00	.00	.00
Dressmakers, exc factory	.00	.00	.00	.23	.21	.16	.01	.01	.01
Dry wall installers, lathers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.00	.00	.00	.01	.01	.01	.01	.01	.01
Garage wrkr,gas station atten	.02	.01	.01	.08	.07	.07	.04	.04	.04
Laundry,dry cleang oprs,other	.02	.01	.01	.89	.59	.70	.86	.87	.66
Meat cutters,butchers,exc mfg	.00	.00	.00	.02	.01	.01	.07	.07	.05
Painters, mfg articles	.02	.01	.01	.06	.08	.07	.00	.00	.00
Photographic process workers	.00	.00	.00	.19	.23	.21	.00	.00	.00
Sawyers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Sewers and stitchers	.00	.00	.00	.10	.07	.11	.05	.05	.04
Furnace tendr,stokr,exc metal	.14	.09	.04	.08	.06	.05	.04	.03	.02
Winding operatives, other	.00	.00	.00	.01	.01	.01	.00	.00	.00
Miscellaneous machine operatives	.03	.03	.04	.06	.09	.10	.05	.05	.04
Other operatives,exc transport	.09	.09	.09	.32	.41	.53	.10	.12	.09
Transport equipment operatives	.34	.30	.38	.89	.90	.74	.38	.49	.45
Bus drivers	.03	.04	.04	.16	.25	.21	.05	.07	.05
Delivery and route workers	.03	.03	.03	.27	.19	.14	.00	.00	.00
Fork lift,tow motor operatives	.00	.00	.00	.01	.01	.02	.01	.01	.01
Parking attendants	.06	.04	.02	.12	.13	.12	.18	.27	.27
Taxicab drivers, chauffeurs	.05	.05	.04	.12	.13	.08	.07	.06	.04
Truck drivers	.17	.15	.24	.21	.18	.18	.07	.07	.07
Service workers	13.95	10.64	9.15	31.25	27.51	28.53	63.23	59.33	63.74
Cleaning service workers	10.83	8.36	7.34	5.91	5.88	6.36	21.00	18.32	19.34
Lodging qtrs cleaners,exc privt	.21	.07	.03	.99	.67	.82	14.17	10.34	11.02
Bldg interior cleaners, other	2.83	2.28	1.84	2.12	2.41	2.88	3.93	4.86	5.15
Janitors and sextons	7.78	6.01	5.47	2.79	2.81	2.66	2.90	3.11	3.17

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Real estate			Services, total			Hotels and lodging places		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.33	.21	.19	4.39	3.71	4.04	17.06	15.73	18.13
Bartenders	.01	.01	.01	.15	.14	.13	1.26	1.21	1.37
Waiters' assistants	.02	.01	.02	.14	.17	.25	1.65	1.99	2.49
Cooks,exc private households	.09	.07	.08	1.42	1.15	.94	3.51	3.53	4.10
Dishwashers	.03	.02	.01	.36	.26	.43	1.64	1.22	1.14
Food counter,fountain workers	.01	.01	.01	.44	.45	.47	.16	.23	.36
Waiters	.12	.07	.05	.74	.56	.57	7.04	6.04	7.44
Other food serv wkrs,exc privt	.05	.03	.01	1.14	.97	1.26	1.80	1.52	1.23
Health service workers	.00	.00	.00	6.97	7.22	8.93	.26	.24	.43
Dental assistants	.00	.00	.00	.48	.55	.64	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.63	.90	1.42	.01	.02	.03
Health trainees	.00	.00	.00	.09	.05	.03	.00	.00	.00
Nursing aides and orderlies	.00	.00	.00	4.01	3.82	4.45	.18	.16	.31
Practical nurses	.00	.00	.00	1.76	1.90	2.39	.07	.06	.09
Personal service workers	2.04	1.40	.88	6.07	5.38	5.37	24.51	24.57	25.36
Attendants,recreation,amusement	.04	.03	.01	.36	.39	.41	.95	1.16	2.01
Attendants, personal serv, other	.56	.35	.20	.19	.20	.21	.55	.59	.76
Baggage porters and bellhops	.00	.00	.00	.08	.08	.07	1.57	1.57	1.03
Barbers	.00	.00	.00	.75	.45	.40	.27	.04	.11
Boarding, lodging housekeepers	.00	.00	.00	.14	.13	.15	2.95	2.76	2.87
Bootblacks	.00	.00	.00	.02	.01	.00	.04	.01	.02
Child care workers, exc private	.04	.02	.02	1.59	1.38	1.54	15.90	16.21	16.38
Elevator operators	1.25	.93	.59	.05	.04	.02	.38	.30	.10
Hairdressers and cosmetologists	.00	.00	.00	2.21	1.86	1.66	.21	.26	.35
Housekeepers, exc private homes	.15	.08	.07	.40	.35	.42	1.69	1.67	1.73
School monitors	.00	.00	.00	.13	.13	.12	.00	.00	.00
Ushers, recreation and amusement	.00	.00	.00	.08	.05	.05	.00	.00	.00
Welfare service aides	.00	.00	.00	.07	.30	.32	.00	.00	.00
Protective service workers	.75	.67	.75	.78	1.03	1.28	.41	.48	.49
Crossing guards,bridgetenders	.00	.00	.00	.01	.01	.02	.00	.00	.00
Guards	.68	.59	.66	.67	.93	1.20	.38	.45	.47
Police and detectives	.07	.07	.08	.08	.08	.05	.03	.03	.02
Private household workers	.00	.00	.00	7.14	4.30	2.55	.00	.00	.00
Child care workers	.00	.00	.00	2.70	1.80	.96	.00	.00	.00
Cooks	.00	.00	.00	.19	.08	.08	.00	.00	.00
Housekeepers	.00	.00	.00	.56	.44	.18	.00	.00	.00
Launderers	.00	.00	.00	.06	.03	.01	.00	.00	.00
Cleaners and servants	.00	.00	.00	3.64	1.96	1.33	.00	.00	.00
Laborers, except farm	5.97	5.39	4.75	2.12	1.94	1.83	1.12	1.13	1.01
Animal caretakers, exc farm	.00	.00	.00	.08	.13	.14	.02	.02	.02
Carpenter helpers	.14	.12	.12	.02	.02	.03	.05	.05	.05
Constr labr,exc carpenter helpr	.23	.16	.10	.04	.04	.03	.09	.09	.07
Freight and material handlers	.05	.05	.06	.07	.07	.10	.06	.07	.09
Garbage collectors	.01	.01	.03	.00	.00	.00	.00	.00	.00
Gardenrs,groundkeepers,exc farm	3.85	3.77	3.21	1.32	1.09	.93	.72	.73	.59
Stock handlers	.02	.02	.01	.13	.12	.13	.04	.05	.05
Vehicle washers,equip cleaners	.01	.01	.01	.26	.27	.27	.00	.00	.00
Warehouse labcrs, other	.01	.00	.00	.02	.02	.01	.00	.00	.00
Other laborers	1.65	1.26	1.22	.18	.19	.19	.14	.12	.13

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hotels and motels			Other lodging places			Other personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	2.55	3.31	3.29	2.44	2.72	2.46	3.28	5.48	5.82
Engineers, technical	.09	.08	.06	.00	.00	.00	.02	.02	.02
Civil	.01	.01	.00	.00	.00	.00	.00	.00	.00
Electrical	.03	.03	.03	.00	.00	.00	.00	.00	.00
Mechanical	.03	.04	.03	.00	.00	.00	.01	.01	.01
Engineering, science technicians	.01	.01	.01	.00	.00	.00	.04	.09	.13
Drafters	.00	.00	.00	.00	.00	.00	.03	.06	.09
Other engineering, science technicians	.01	.01	.01	.00	.00	.00	.01	.03	.04
Medical workers, exc technicians	.04	.04	.02	.19	.19	.18	.01	.03	.06
Dietitians	.01	.01	.01	.02	.02	.02	.00	.01	.02
Registered nurses	.03	.02	.01	.16	.14	.13	.00	.01	.02
Therapists	.00	.00	.00	.02	.04	.03	.01	.02	.02
Technicians, except health	.00	.00	.00	.00	.00	.00	.35	.38	.42
Airplane pilots	.00	.00	.00	.00	.00	.00	.01	.01	.02
Embalmers	.00	.00	.00	.00	.00	.00	.33	.33	.36
Other technicians except health	.00	.00	.00	.00	.00	.00	.01	.03	.04
Computer specialists	.02	.02	.05	.02	.01	.00	.01	.01	.01
Computer programmers	.01	.02	.04	.00	.00	.00	.00	.00	.00
Computer systems analysts	.00	.01	.00	.02	.01	.00	.00	.00	.00
Other computer specialists	.00	.00	.02	.00	.00	.00	.00	.00	.00
Social scientists	.01	.02	.03	.00	.01	.00	.01	.02	.04
Economists	.01	.02	.03	.00	.00	.00	.00	.00	.00
Other social scientists	.00	.00	.00	.00	.00	.00	.01	.02	.04
Teachers	.03	.02	.01	.64	.38	.39	.03	.03	.02
Preschool and kindergarten	.00	.00	.00	.39	.25	.28	.00	.00	.00
Other teachers	.03	.02	.01	.25	.13	.10	.03	.03	.02
Writers, artists, entertainers	.85	1.09	1.20	.06	.06	.06	2.62	4.60	4.86
Athletes and kindred workers	.02	.02	.02	.00	.00	.00	.10	.26	.27
Authors	.00	.00	.00	.00	.00	.00	.00	.01	.06
Dancers	.03	.03	.06	.00	.00	.00	.00	.00	.00
Designers	.02	.02	.02	.00	.00	.00	.03	.08	.12
Editors and reporters	.01	.01	.01	.01	.01	.01	.01	.02	.04
Musicians and composers	.52	.66	.81	.05	.05	.05	.06	.13	.12
Painters and sculptors	.01	.02	.01	.00	.00	.00	.14	.39	.43
Photographers	.02	.02	.02	.00	.00	.00	2.17	3.45	3.63
Public relations specialists	.11	.16	.12	.00	.00	.00	.03	.07	.07
Other writers, artists, entertainers	.12	.16	.12	.00	.00	.00	.07	.19	.13
Other professional and technical	1.50	2.02	1.91	1.52	2.07	1.83	.20	.30	.27
Accountants	1.23	1.63	1.53	.06	.07	.07	.09	.14	.12
Clergy	.00	.00	.00	.05	.03	.03	.00	.01	.02
Religious workers, except clergy	.00	.00	.00	.01	.02	.02	.00	.01	.02
Lawyers	.02	.03	.01	.00	.00	.00	.00	.00	.00
Operations and systems research	.01	.01	.01	.00	.00	.00	.00	.00	.00
Personnel, labor relations workers	.15	.18	.13	.05	.04	.04	.09	.11	.08
Other research workers	.01	.01	.02	.00	.00	.00	.01	.01	.01
Recreation workers	.08	.16	.21	1.26	1.78	1.56	.00	.02	.02
Social workers	.01	.01	.01	.06	.09	.08	.00	.00	.00
Vocation, education counselors	.00	.00	.00	.03	.04	.03	.00	.00	.00
Managers, officials, proprietors	15.52	18.15	14.51	14.85	11.68	11.44	10.05	12.20	11.03
Buyers, sales, loan managers	.35	.39	.31	.02	.02	.02	.17	.25	.36
Credit managers	.04	.03	.02	.00	.00	.00	.02	.02	.02
Purchasing agents, buyers, other	.17	.19	.17	.02	.02	.02	.03	.08	.14
Sales manager, exc retail trade	.14	.18	.13	.00	.00	.00	.12	.15	.20
Other managers, officials, proprietors	15.17	17.76	14.20	14.83	11.66	11.42	9.87	11.96	10.67
Funeral directors	.00	.00	.00	.00	.00	.00	2.76	2.73	2.90
Mgns, superintendents, building	.09	.12	.12	.32	.30	.38	.01	.03	.04
Office managers, other	.20	.24	.19	.15	.14	.14	.16	.21	.23
Restaurant, cafe, bar, managers	.80	.83	.58	.07	.05	.06	.00	.00	.00
Other managers, administrators	14.08	16.56	13.30	14.29	11.18	10.84	6.94	8.98	7.50

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hotels and motels			Other lodging places			Other personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Sales workers	.34	.40	.44	.14	.11	.14	1.16	1.53	1.44
Advertising agents,sales worker	.01	.01	.02	.00	.00	.00	.01	.02	.02
Hucksters and peddlers	.00	.00	.00	.00	.00	.00	.00	.01	.01
Other sales wrkrs	.34	.39	.42	.14	.11	.14	1.15	1.51	1.40
Clerical workers	17.31	19.58	18.58	3.48	3.13	3.53	10.48	11.65	11.57
Stenographers,typists,secretaries	1.76	2.03	2.08	.73	.78	.85	.93	1.49	1.85
Other secretaries	1.46	1.73	1.83	.61	.66	.71	.73	1.22	1.56
Stenographers	.02	.02	.01	.01	.01	.01	.01	.01	.01
Typists	.27	.28	.25	.12	.11	.13	.20	.26	.28
Office machine operators	.23	.26	.31	.03	.02	.02	.12	.08	.05
Bookkeeping and billing	.06	.04	.04	.01	.00	.01	.03	.01	.01
Calculating	.03	.03	.02	.00	.00	.00	.01	.01	.00
Computer and peripheral equip	.02	.06	.07	.00	.00	.00	.01	.01	.01
Keypunch	.05	.04	.04	.02	.01	.00	.04	.02	.01
Other office machine operators	.08	.10	.13	.01	.01	.01	.02	.03	.02
Other clerical workers	15.33	17.29	16.19	2.71	2.34	2.67	9.43	10.08	9.66
Billing clerks	.04	.05	.04	.03	.02	.03	.07	.08	.10
Bookkeepers	1.99	2.25	2.31	1.25	.97	1.26	1.29	1.44	1.31
Cashiers	2.19	2.82	3.29	.12	.14	.16	.09	.22	.19
Clerical supervisors, other	.05	.07	.05	.00	.00	.00	.06	.06	.06
Collectors, bill and account	.04	.05	.06	.28	.24	.28	.02	.04	.04
Counter clerks,exc food	7.42	8.43	7.40	.23	.23	.25	5.51	4.60	4.41
Dispatchers,starters,vehicle	.02	.02	.01	.00	.00	.00	.01	.02	.03
Estimators,investigators,other	.06	.06	.04	.20	.16	.14	.08	.11	.08
Expeditors,production controls	.01	.02	.03	.00	.00	.00	.02	.04	.04
File clerks	.06	.07	.08	.02	.02	.02	.10	.11	.12
Mail handlers,exc post office	.06	.06	.04	.02	.01	.01	.03	.04	.03
Messengers and office helpers	.04	.04	.03	.01	.02	.02	.03	.04	.02
Payroll,timekeeping clerks	.29	.38	.33	.01	.01	.01	.09	.09	.08
Receptionists	.72	.85	.68	.20	.18	.17	1.03	1.94	1.80
Shipping and receiving clerks	.05	.06	.07	.01	.01	.01	.17	.14	.15
Statistical clerks	.08	.10	.08	.05	.04	.04	.07	.11	.11
Stock clerks and store keepers	.20	.21	.19	.02	.02	.02	.13	.10	.07
Telephone operators	1.63	1.28	.98	.05	.04	.04	.06	.05	.05
Weighers	.00	.00	.00	.00	.00	.00	.03	.05	.06
Misc clerical workers	.37	.49	.47	.21	.22	.21	.55	.80	.93
Crafts and kindred workers	3.00	3.25	2.91	1.37	1.23	1.25	3.55	3.18	2.86
Construction crafts workers	1.45	1.53	1.21	.69	.59	.57	.08	.10	.11
Carpenters and apprentices	.49	.50	.32	.35	.32	.28	.03	.05	.04
Brick,stonemasons, apprentices	.02	.02	.03	.01	.01	.01	.00	.00	.00
Bulldozer operators	.01	.01	.01	.02	.02	.04	.00	.00	.00
Electricians and apprentices	.17	.19	.18	.06	.06	.07	.01	.02	.03
Painters and apprentices	.61	.65	.54	.15	.13	.13	.03	.03	.03
Paperhangers	.01	.01	.01	.02	.01	.01	.00	.00	.00
Plasterers and apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Plumbers,pipefitters,aprentices	.12	.12	.10	.07	.04	.03	.01	.01	.01
Tile setters	.01	.01	.01	.02	.01	.01	.00	.00	.00
Blue collar worker supervisors	.23	.30	.34	.18	.18	.19	.63	.56	.52
Metalworkg craft wrkrs,exc mech	.00	.00	.00	.00	.00	.00	.03	.03	.06
Machinists and apprentices	.00	.00	.00	.00	.00	.00	.03	.03	.06
Mechanics,repairers,installers	.45	.59	.65	.28	.26	.31	.49	.47	.48
Air cond, heating, refrig mech	.08	.11	.08	.00	.00	.00	.00	.01	.00
Auto mechanics and apprentices	.02	.03	.04	.02	.02	.02	.08	.06	.05
Heavy equip mech, incl diesel	.22	.29	.36	.15	.15	.22	.18	.19	.23
Household appliance mechanics	.02	.03	.04	.00	.00	.00	.20	.17	.14
Radio, television repairers	.03	.03	.02	.02	.01	.01	.00	.01	.02
Other mechanics and apprentices	.07	.10	.11	.07	.07	.06	.03	.04	.03
Printing trade crafts workers	.02	.03	.03	.00	.00	.00	.02	.05	.05
Compositors and typesetters	.01	.02	.01	.00	.00	.00	.01	.02	.02
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Press,plate printers,aprentices	.01	.01	.02	.00	.00	.00	.01	.02	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hotels and motels			Other lodging places			Other personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.84	.80	.69	.22	.19	.19	2.31	1.97	1.64
Bakers	.15	.16	.14	.02	.02	.02	.00	.00	.00
Cabinetmakers	.02	.02	.01	.01	.00	.00	.00	.00	.01
Carpet installers	.01	.01	.01	.00	.00	.00	.00	.01	.02
Decorators, window dressers	.01	.02	.02	.00	.01	.00	.01	.02	.04
Furniture and wood finishers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Furriers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Inspectors, other	.07	.09	.07	.00	.00	.00	.04	.04	.06
Shoe repairers	.00	.00	.00	.00	.00	.00	1.40	1.27	1.19
Stationary engineers	.51	.43	.35	.03	.03	.02	.07	.04	.01
Tailors	.01	.01	.01	.00	.00	.00	.75	.54	.29
Upholsterers	.04	.03	.03	.00	.00	.00	.01	.01	.00
Other crafts workers	.01	.02	.03	.16	.14	.15	.02	.02	.01
Operatives	2.35	2.52	2.17	.53	.47	.45	25.70	18.71	13.06
Operatives, except transport	1.87	1.91	1.61	.38	.30	.26	22.16	15.98	11.08
Semiskilled packing, inspecting	.01	.01	.01	.01	.01	.00	.29	.26	.39
Packer, wrapper, exc meat, prodce	.01	.01	.01	.01	.01	.00	.29	.26	.39
Other operatives, exc transport	1.86	1.90	1.60	.37	.30	.26	21.87	15.71	10.69
Clothing ironers and pressers	.22	.26	.34	.06	.05	.05	8.42	4.81	2.95
Cutting operatives, other	.00	.00	.00	.00	.00	.00	.01	.02	.05
Dressmakers, exc factory	.00	.00	.00	.03	.03	.02	2.78	3.26	3.08
Filer, polisher, sander, buffer	.02	.02	.01	.00	.00	.00	.00	.00	.00
Garage wrkr, gas station atten	.06	.05	.05	.01	.01	.01	.01	.01	.01
Laundry, dry cleang oprs, other	1.16	1.15	.89	.16	.12	.11	9.01	5.71	3.15
Meat cutters, butchers, exc mfg	.10	.10	.07	.00	.00	.00	.00	.00	.00
Photographic process workers	.00	.00	.00	.00	.00	.00	.62	1.17	.80
Sewers and stitchers	.07	.07	.06	.01	.01	.00	.93	.62	.57
Shoemaking machine operatives	.00	.00	.00	.00	.00	.00	.01	.02	.01
Furnace tendr, stokr, exc metal	.06	.05	.03	.00	.00	.00	.04	.02	.01
Miscellaneous machine operatives	.06	.06	.05	.02	.02	.02	.00	.00	.00
Other operatives, exc transport	.12	.14	.10	.07	.06	.05	.03	.07	.06
Transport equipment operatives	.47	.61	.56	.15	.17	.19	3.54	2.73	1.98
Bus drivers	.05	.09	.06	.03	.05	.04	.00	.00	.00
Delivery and route workers	.00	.00	.00	.00	.00	.00	2.64	1.72	1.43
Fork lift, tow motor operatives	.00	.00	.00	.03	.04	.04	.01	.01	.01
Parking attendants	.25	.37	.38	.02	.02	.02	.01	.03	.02
Taxicab drivers, chauffeurs	.10	.09	.06	.00	.00	.00	.31	.66	.42
Truck drivers	.07	.07	.07	.07	.06	.08	.56	.32	.11
Service workers	57.96	51.76	57.25	75.73	79.28	79.36	44.35	45.98	53.47
Cleaning service workers	27.52	23.50	25.07	5.56	4.66	5.54	1.57	2.28	1.70
Lodging qtrs cleaners, exc privt	19.49	13.93	15.18	1.58	.89	.99	.13	.14	.16
Bldg interior cleaners, other	4.84	6.07	6.50	1.77	1.69	1.89	.56	.89	.51
Janitors and sextons	3.19	3.50	3.38	2.22	2.08	2.66	.88	1.26	1.04
Food service workers	22.64	20.44	23.83	3.84	3.30	4.38	.12	.09	.07
Bartenders	1.75	1.63	1.90	.11	.07	.08	.00	.00	.00
Waiters' assistants	2.30	2.68	3.39	.11	.15	.30	.01	.02	.01
Cooks, exc private households	4.18	4.25	4.90	1.91	1.64	2.19	.01	.01	.01
Dishwashers	2.13	1.54	1.42	.48	.36	.46	.01	.01	.01
Food counter, fountain workers	.18	.26	.41	.09	.14	.26	.07	.03	.01
Waiters	9.72	8.13	10.27	.71	.55	.62	.02	.02	.01
Other food serv wkrs, exc privt	2.38	1.94	1.54	.43	.40	.47	.01	.01	.00
Health service workers	.04	.05	.08	.76	.75	1.27	.05	.11	.19
Health aides, except nursing	.01	.01	.03	.02	.03	.04	.03	.08	.09
Nursing aides and orderlies	.02	.02	.03	.55	.54	.97	.01	.03	.10
Practical nurses	.02	.02	.02	.19	.17	.26	.00	.00	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Hotels and motels			Other lodging places			Other personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	7.22	7.16	7.63	65.46	70.46	68.04	42.53	43.41	51.43
Attendants, recreation, amusement	1.07	1.32	2.33	.67	.75	1.24	.01	.01	.01
Attendants, personal serv, other	.68	.74	.97	.25	.19	.25	.57	1.04	1.13
Baggage porters and bellhops	2.22	2.16	1.44	.02	.02	.04	.00	.01	.03
Barbers	.18	.03	.08	.47	.05	.20	10.08	8.11	9.66
Boarding, lodging housekeepers	.00	.00	.00	9.95	10.02	9.80	.00	.00	.00
Bootblacks	.02	.01	.01	.09	.02	.03	.18	.16	.03
Child care workers, exc private	.13	.07	.10	53.26	58.76	55.61	.65	.70	.85
Elevator operators	.53	.40	.13	.02	.02	.02	.01	.01	.01
Hairdressers and cosmetologists	.17	.28	.37	.29	.23	.29	30.98	33.29	39.67
Housekeepers, exc private homes	2.21	2.15	2.21	.44	.40	.58	.06	.08	.05
Protective service workers	.54	.61	.64	.11	.12	.13	.08	.09	.08
Guards	.50	.57	.61	.11	.12	.13	.08	.09	.08
Police and detectives	.04	.04	.03	.00	.00	.00	.00	.01	.00
Laborers, except farm	.97	1.04	.86	1.47	1.37	1.37	1.43	1.26	.76
Animal caretakers, exc farm	.01	.01	.01	.04	.03	.03	.00	.00	.00
Carpenter helpers	.06	.05	.05	.04	.04	.04	.01	.01	.01
Constr labr, exc carpenter helpr	.09	.08	.06	.11	.11	.11	.01	.01	.00
Freight and material handlers	.07	.09	.11	.03	.03	.03	.12	.09	.07
Gardens, groundkeepers, exc farm	.62	.66	.49	.95	.91	.85	.04	.09	.12
Stock handlers	.05	.07	.07	.01	.01	.02	.85	.57	.23
Vehicle washers, equip cleaners	.00	.00	.00	.00	.00	.00	.20	.15	.07
Other laborers	.08	.08	.07	.29	.24	.29	.20	.33	.26

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Laundering, cleaning services			Beauty shops			Barber shops		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.39	.45	.45	.04	.10	.05	.00	.00	.00
Engineers, technical	.05	.05	.08	.00	.00	.00	.00	.00	.00
Industrial	.02	.03	.04	.00	.00	.00	.00	.00	.00
Mechanical	.02	.02	.04	.00	.00	.00	.00	.00	.00
Computer specialists	.02	.02	.02	.00	.00	.00	.00	.00	.00
Computer programers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Computer systems analysts	.01	.01	.01	.00	.00	.00	.00	.00	.00
Writers, artists, entertainers	.04	.05	.06	.01	.03	.02	.00	.00	.00
Public relations specialists	.03	.04	.04	.01	.02	.02	.00	.00	.00
Other writers, artists, entertain	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other professional and technical	.28	.32	.29	.03	.07	.03	.00	.00	.00
Accountants	.13	.14	.11	.01	.03	.02	.00	.00	.00
Personnel, labor relations wkrs	.15	.17	.18	.01	.03	.01	.00	.00	.00
Managers, officials, proprietors	15.24	22.95	25.96	.36	1.12	.85	.06	.65	.14
Buyers, sales, loan managers	.27	.27	.34	.02	.14	.26	.00	.00	.00
Credit managers	.02	.01	.02	.00	.00	.00	.00	.00	.00
Purchasing agents, buyers, other	.04	.03	.01	.02	.14	.26	.00	.00	.00
Sales manager, exc retail trade	.22	.23	.30	.00	.00	.00	.00	.00	.00
Other managers, officials, proprtis	14.96	22.69	25.63	.34	.98	.58	.06	.65	.14
Office managers, other	.24	.26	.34	.01	.02	.02	.00	.02	.00
Other managers, administrators	14.72	22.42	25.29	.33	.96	.56	.06	.63	.14
Sales workers	1.58	1.64	2.29	.15	.29	.12	.00	.00	.00
Other sales workers	1.58	1.64	2.29	.15	.29	.12	.00	.00	.00
Clerical workers	19.18	20.76	25.96	1.59	3.51	2.88	.14	.89	.11
Stenographers, typists, secretaries	.90	.96	1.45	.09	.16	.08	.02	.11	.01
Other secretaries	.66	.74	1.19	.07	.14	.06	.02	.10	.01
Stenographers	.01	.01	.01	.01	.01	.02	.00	.00	.00
Typists	.24	.22	.25	.01	.01	.00	.00	.02	.00
Office machine operators	.25	.19	.13	.01	.01	.00	.00	.00	.00
Bookkeeping and billing	.07	.03	.02	.00	.00	.00	.00	.00	.00
Calculating	.02	.01	.01	.00	.01	.00	.00	.00	.00
Computer and peripheral equip	.02	.04	.02	.00	.00	.00	.00	.00	.00
Keypunch	.10	.07	.05	.00	.00	.00	.00	.00	.00
Other office machine operators	.04	.04	.04	.00	.01	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Laundering, cleaning services			Beauty shops			Barber shops		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	18.03	19.61	24.38	1.49	3.34	2.81	.12	.77	.10
Billing clerks	.12	.13	.19	.00	.01	.00	.00	.00	.00
Bookkeepers	2.24	2.35	2.64	.17	.38	.27	.05	.34	.03
Cashiers	.00	.00	.00	.06	.12	.06	.02	.20	.04
Clerical supervisors, other	.11	.12	.11	.00	.00	.00	.00	.00	.00
Collectors, bill and account	.03	.03	.04	.00	.00	.00	.00	.00	.00
Counter clerks,exc food	13.09	14.63	18.83	.01	.03	.02	.00	.00	.00
Dispatchers,starters,vehicle	.03	.03	.04	.00	.00	.00	.00	.00	.00
Estimators,investigators,other	.14	.15	.12	.00	.00	.00	.00	.00	.00
Expeditors,production controls	.03	.03	.02	.00	.00	.00	.00	.00	.00
File clerks	.14	.13	.17	.00	.00	.00	.00	.00	.00
Mail handlers,exc post office	.04	.04	.03	.00	.00	.00	.00	.00	.00
Messengers and office helpers	.03	.04	.04	.00	.01	.00	.00	.00	.00
Payroll,timekeeping clerks	.19	.23	.32	.01	.02	.19	.00	.00	.00
Receptionists	.27	.23	.17	1.19	2.56	2.20	.05	.22	.03
Shipping and receiving clerks	.35	.32	.40	.00	.00	.00	.00	.00	.00
Statistical clerks	.09	.10	.11	.00	.00	.00	.00	.00	.00
Stock clerks and store keepers	.26	.21	.15	.02	.03	.01	.00	.00	.00
Telephone operators	.09	.06	.05	.01	.00	.00	.00	.00	.00
Weighers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Misc clerical workers	.76	.78	.93	.04	.18	.24	.00	.02	.00
Crafts and kindred workers	4.77	4.97	5.24	.04	.06	.00	.04	.18	.03
Construction crafts workers	.11	.12	.17	.01	.02	.00	.00	.00	.00
Carpenters and apprentices	.02	.03	.04	.01	.01	.00	.00	.00	.00
Electricians and apprentices	.02	.03	.04	.00	.00	.00	.00	.00	.00
Painters and apprentices	.05	.04	.04	.01	.01	.00	.00	.00	.00
Plumbers,pipefitters,aprentices	.02	.02	.04	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	1.44	1.60	1.90	.01	.02	.00	.00	.00	.00
Metalworkg craft wrkrs,exc mech	.06	.09	.26	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.06	.09	.26	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	1.07	1.20	1.58	.01	.02	.00	.01	.02	.00
Air cond, heating, refrig mech	.00	.00	.00	.00	.00	.00	.00	.02	.00
Auto mechanics and apprentices	.17	.14	.11	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	.39	.50	.82	.00	.01	.00	.00	.00	.00
Household appliance mechanics	.45	.49	.57	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	.05	.06	.08	.00	.00	.00	.00	.00	.00
Other crafts, kindred workers	2.09	1.96	1.34	.01	.01	.00	.04	.16	.03
Furriers	.04	.04	.02	.00	.00	.00	.00	.00	.00
Inspectors, other	.10	.13	.22	.00	.00	.00	.00	.00	.00
Shoe repairers	.00	.00	.00	.00	.00	.00	.02	.06	.01
Stationary engineers	.16	.11	.04	.00	.00	.00	.00	.01	.00
Tailors	1.76	1.66	1.04	.00	.00	.00	.00	.00	.00
Other crafts workers	.02	.02	.02	.00	.00	.00	.01	.09	.02
Operatives	53.36	44.34	36.92	.03	.06	.02	.00	.00	.00
Operatives,except transport	45.76	38.00	30.72	.02	.05	.02	.00	.00	.00
Semiskilled metalworking	.01	.01	.01	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Semiskilled packing, inspecting	.65	.74	1.50	.00	.00	.00	.00	.00	.00
Packer,wrapper,exc meat,prodce	.65	.74	1.50	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Laundering, cleaning services			Beauty shops			Barber shops		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	45.09	37.25	29.22	.02	.05	.02	.00	.00	.00
Clothing ironers and pressers	20.24	15.74	12.83	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.90	.82	.27	.00	.00	.00	.00	.00	.00
Dyers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Garage wrkr, gas station atten	.01	.01	.01	.00	.00	.00	.00	.00	.00
Laundry, dry cleang oprs, other	21.60	18.61	13.66	.01	.01	.00	.00	.00	.00
Sewers and stitchers	2.22	1.99	2.37	.00	.00	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.10	.06	.05	.00	.00	.00	.00	.00	.00
Other operatives, exc transport	.00	.00	.00	.01	.03	.02	.00	.00	.00
Transport equipment operatives	7.60	6.34	6.20	.01	.01	.00	.00	.00	.00
Delivery and route workers	6.27	5.40	5.85	.00	.00	.00	.00	.00	.00
Fork lift, tow motor operatives	.03	.03	.02	.00	.00	.00	.00	.00	.00
Parking attendants	.01	.01	.02	.00	.01	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.02	.02	.01	.00	.00	.00	.00	.00	.00
Truck drivers	1.29	.89	.29	.01	.01	.00	.00	.00	.00
Service workers	2.60	2.24	1.56	97.79	94.86	96.09	99.73	98.16	99.71
Cleaning service workers	2.13	1.89	1.30	.84	1.79	2.01	.43	3.63	.32
Lodging qtrs cleaners, exc privt	.00	.00	.00	.31	.31	.29	.02	.09	.03
Bldg interior cleaners, other	.57	.53	.36	.36	.73	.43	.09	.77	.13
Janitors and sextons	1.56	1.36	.94	.16	.75	1.29	.32	2.78	.16
Food service workers	.23	.15	.07	.02	.03	.00	.00	.00	.00
Waiters' assistants	.02	.02	.03	.00	.01	.00	.00	.00	.00
Cooks, exc private households	.01	.01	.02	.00	.01	.00	.00	.00	.00
Dishwashers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Food counter, fountain workers	.17	.09	.01	.00	.00	.00	.00	.00	.00
Waiters	.03	.02	.01	.01	.01	.00	.00	.00	.00
Health service workers	.00	.00	.00	.02	.04	.02	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.01	.03	.02	.00	.00	.00
Personal service workers	.11	.08	.07	96.91	93.00	94.06	99.30	94.49	99.39
Attendants, personal serv, other	.00	.00	.00	.06	.20	.38	.05	.43	.02
Barbers	.00	.00	.00	.56	.20	.60	96.11	77.44	94.69
Boothblacks	.00	.00	.00	.00	.00	.00	.25	.65	.16
Child care workers, exc private	.05	.04	.05	.08	.16	.19	.55	.96	.33
Elevator operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Hairdressers and cosmetologists	.00	.00	.00	96.18	92.41	92.88	2.34	14.96	4.18
Housekeepers, exc private homes	.05	.03	.02	.01	.02	.02	.01	.06	.01
Protective service workers	.13	.13	.12	.01	.01	.00	.01	.04	.00
Guards	.13	.12	.12	.00	.01	.00	.00	.00	.00
Police and detectives	.00	.00	.00	.00	.00	.00	.01	.04	.00
Laborers, except farm	2.89	2.64	1.62	.00	.00	.00	.02	.13	.00
Carpenter helpers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Freight and material handlers	.30	.29	.32	.00	.00	.00	.00	.00	.00
Stock handlers	2.05	1.88	1.00	.00	.00	.00	.00	.00	.00
Vehicle washers, equip cleaners	.43	.38	.16	.00	.00	.00	.00	.00	.00
Warehouse labcrers, other	.01	.01	.03	.00	.00	.00	.00	.00	.00
Other laborers	.08	.08	.08	.00	.00	.00	.02	.13	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Shoe repair shops			Dressmaking shops			Misc personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	.24	.43	.27	.65	.56	.54	25.39	25.93	26.85
Mathematical specialists	.02	.02	.00	.00	.00	.00	.01	.00	.00
Statisticians	.02	.02	.00	.00	.00	.00	.00	.00	.00
Engineering, science technicians	.00	.00	.00	.00	.00	.00	.36	.46	.62
Drafters	.00	.00	.00	.00	.00	.00	.24	.30	.44
Surveyors	.00	.00	.00	.00	.00	.00	.03	.03	.02
Other engineering, science tech	.00	.00	.00	.00	.00	.00	.09	.13	.17
Medical workers, exc technicians	.00	.00	.00	.00	.00	.00	.08	.17	.26
Dietitians	.00	.00	.00	.00	.00	.00	.01	.03	.09
Physicians and osteopaths	.00	.00	.00	.00	.00	.00	.01	.01	.02
Registered nurses	.00	.00	.00	.00	.00	.00	.02	.04	.09
Therapists	.00	.00	.00	.00	.00	.00	.05	.09	.07
Health technologists, technicians	.00	.00	.00	.00	.00	.00	.02	.01	.01
Technicians, except health	.00	.00	.00	.00	.00	.00	2.86	1.86	1.99
Airplane pilots	.00	.00	.00	.00	.00	.00	.04	.07	.10
Embalmers	.00	.00	.00	.00	.00	.00	2.74	1.64	1.70
Other technicians except health	.00	.00	.00	.00	.00	.00	.08	.15	.19
Social scientists	.00	.00	.00	.00	.00	.00	.07	.10	.21
Other social scientists	.00	.00	.00	.00	.00	.00	.07	.10	.21
Teachers	.00	.00	.00	.43	.28	.32	.16	.12	.04
Other teachers	.00	.00	.00	.43	.28	.32	.16	.12	.04
Writers, artists, entertainers	.00	.00	.00	.07	.06	.07	21.33	22.44	22.88
Athletes and kindred workers	.00	.00	.00	.00	.00	.00	.85	1.29	1.28
Authors	.00	.00	.00	.00	.00	.00	.02	.06	.26
Designers	.00	.00	.00	.07	.06	.07	.23	.40	.56
Editors and reporters	.00	.00	.00	.00	.00	.00	.07	.11	.18
Musicians and composers	.00	.00	.00	.00	.00	.00	.46	.62	.58
Painters and sculptors	.00	.00	.00	.00	.00	.00	1.11	1.89	2.02
Photographers	.00	.00	.00	.00	.00	.00	17.86	16.93	17.17
Public relations specialists	.00	.00	.00	.00	.00	.00	.13	.22	.23
Other writers, artists, entertain	.00	.00	.00	.00	.00	.00	.59	.92	.61
Other professional and technical	.23	.42	.27	.15	.23	.16	.52	.78	.84
Accountants	.19	.40	.26	.09	.14	.07	.24	.37	.39
Clergy	.00	.00	.00	.00	.00	.00	.02	.03	.07
Religious workers, except clergy	.00	.00	.00	.00	.00	.00	.01	.03	.09
Home management advisors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Librarians	.00	.00	.00	.00	.00	.00	.01	.01	.01
Personnel, labor relations wkrs	.04	.02	.00	.06	.09	.09	.16	.21	.13
Other research workers	.00	.00	.00	.00	.00	.00	.04	.04	.04
Recreation workers	.00	.00	.00	.00	.00	.00	.02	.06	.10
Managers, officials, proprietors	6.34	17.33	14.80	1.13	1.79	1.87	28.43	21.43	21.27
Buyers, sales, loan managers	.00	.00	.00	.04	.05	.05	.43	.58	.82
Credit managers	.00	.00	.00	.00	.00	.00	.08	.06	.08
Purchasing agents, buyers, other	.00	.00	.00	.04	.05	.05	.09	.11	.14
Sales manager, exc retail trade	.00	.00	.00	.00	.00	.00	.26	.41	.60
Other managers, officials, proprts	6.34	17.33	14.80	1.09	1.74	1.83	28.00	20.85	20.45
Funeral directors	.00	.00	.00	.00	.00	.00	22.72	13.39	13.73
Mgrs, superintendents, building	.00	.00	.00	.00	.00	.00	.10	.15	.18
Office managers, other	.00	.00	.00	.00	.00	.00	.43	.58	.70
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.01	.01	.02
Restaurant, cafe, bar, managers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Other managers, administrators	6.34	17.33	14.80	1.09	1.74	1.83	4.73	6.70	5.81
Sales workers	3.38	6.69	5.88	.53	.59	.26	3.09	3.76	3.62
Advertising agents, sales worker	.00	.00	.00	.04	.08	.08	.05	.09	.10
Hucksters and peddlers	.00	.00	.00	.00	.00	.00	.02	.03	.07
Other sales workers	3.38	6.69	5.88	.49	.51	.18	3.02	3.65	3.46
Clerical workers	6.01	10.76	7.81	1.43	2.14	2.52	15.23	18.59	20.29

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Shoe repair shops			Dressmaking shops			Misc personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Stenographers, typists, secretaries	.37	.80	.67	.55	.81	.95	4.15	5.34	6.86
Legal secretaries	.00	.00	.00	.01	.02	.01	.00	.00	.00
Other secretaries	.28	.67	.63	.39	.63	.81	3.39	4.44	5.81
Stenographers	.03	.04	.01	.00	.00	.00	.03	.02	.01
Typists	.06	.09	.03	.15	.16	.13	.72	.87	1.04
Office machine operators	.02	.02	.00	.02	.03	.01	.09	.09	.09
Bookkeeping and billing	.00	.00	.00	.00	.00	.00	.03	.02	.02
Calculating	.00	.00	.00	.00	.00	.00	.01	.01	.01
Duplicating	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other office machine operators	.02	.02	.00	.02	.03	.01	.03	.04	.06
Other clerical workers	5.62	9.94	7.13	.87	1.31	1.56	10.99	13.16	13.34
Billing clerks	.00	.00	.00	.05	.08	.08	.12	.17	.24
Bookkeepers	.86	1.27	.78	.20	.27	.26	2.27	2.61	2.74
Cashiers	2.09	4.18	3.36	.09	.19	.39	.20	.29	.40
Clerical supervisors, other	.00	.00	.00	.00	.00	.00	.09	.13	.16
Collectors, bill and account	.00	.00	.00	.00	.00	.00	.10	.13	.14
Counter clerks, exc food	2.26	3.65	2.46	.04	.07	.08	.28	.39	.52
Dispatchers, starters, vehicle	.00	.00	.00	.00	.00	.00	.02	.04	.09
Estimators, investigators, other	.00	.00	.00	.04	.07	.04	.20	.29	.24
Expeditors, production controls	.03	.05	.01	.00	.00	.00	.08	.12	.17
File clerks	.00	.00	.00	.04	.04	.02	.28	.32	.38
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.01	.02	.01
Mail handlers, exc post office	.03	.02	.03	.00	.00	.00	.12	.14	.12
Messengers and office helpers	.00	.00	.00	.00	.00	.00	.15	.15	.05
Payroll, timekeeping clerks	.02	.02	.00	.00	.00	.00	.03	.04	.02
Real estate appraisers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Receptionists	.10	.17	.10	.15	.18	.16	4.39	4.83	4.00
Shipping and receiving clerks	.00	.00	.00	.08	.14	.23	.16	.21	.26
Statistical clerks	.00	.00	.00	.00	.00	.00	.28	.40	.42
Stock clerks and store keepers	.00	.00	.00	.02	.02	.03	.10	.12	.12
Telephone operators	.00	.00	.00	.04	.03	.01	.18	.16	.16
Weighers	.00	.00	.00	.00	.00	.00	.18	.24	.24
Misc clerical workers	.24	.58	.40	.12	.22	.27	1.74	2.36	2.86
Crafts and kindred workers	72.94	55.74	68.15	.47	.59	.62	1.23	1.74	2.19
Construction crafts workers	.00	.00	.00	.04	.05	.03	.23	.29	.32
Carpenters and apprentices	.00	.00	.00	.04	.05	.03	.13	.16	.15
Electricians and apprentices	.00	.00	.00	.00	.00	.00	.02	.04	.09
Painters and apprentices	.00	.00	.00	.00	.00	.00	.06	.08	.08
Blue collar worker supervisors	.06	.08	.00	.10	.19	.27	.20	.30	.39
Metalworkg craft wkrs, exc mech	.02	.02	.01	.00	.00	.00	.00	.00	.00
Tool and diemakers, apprentices	.02	.02	.01	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	.03	.05	.01	.03	.04	.02	.33	.47	.57
Air cond, heating, refrig meca	.03	.05	.01	.00	.00	.00	.01	.01	.01
Auto body repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Auto mechanics and apprentices	.00	.00	.00	.00	.00	.00	.05	.07	.11
Heavy equip mech, incl diesel	.00	.00	.00	.00	.00	.00	.09	.16	.23
Household appliance mechanics	.00	.00	.00	.00	.00	.00	.06	.08	.07
Radio, television repairers	.00	.00	.00	.00	.00	.00	.02	.04	.08
Other mechanics and apprentices	.00	.00	.00	.03	.04	.02	.09	.11	.06
Printing trade crafts workers	.00	.00	.00	.00	.00	.00	.16	.23	.24
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.07	.09	.08
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.04	.05	.03
Press, plate printers, apprentices	.00	.00	.00	.00	.00	.00	.05	.09	.13
Transport, public util craft wkrs	.00	.00	.00	.00	.00	.00	.01	.02	.02
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers, repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Shoe repair shops			Dressmaking shops			Misc personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	72.84	55.59	68.13	.31	.31	.31	.29	.42	.65
Cabinetmakers	.00	.00	.00	.00	.00	.00	.01	.01	.03
Carpet installers	.00	.00	.00	.00	.00	.00	.02	.04	.09
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.05	.11	.18
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Inspectors, other	.00	.00	.00	.00	.00	.00	.01	.02	.03
Shoe repairers	72.69	55.39	68.10	.00	.00	.00	.03	.02	.03
Sign painters and letterers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Stationary engineers	.00	.00	.00	.00	.00	.00	.01	.02	.01
Stone cutters, stone carvers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Tailors	.00	.00	.00	.29	.28	.29	.09	.14	.21
Upholsterers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Other crafts workers	.15	.20	.03	.02	.03	.02	.02	.02	.01
Operatives	2.06	3.68	1.99	94.90	93.33	93.50	9.19	10.90	7.75
Operatives, except transport	1.98	3.47	1.79	94.78	93.12	92.94	6.07	6.97	5.10
Semiskilled packing, inspecting	.00	.00	.00	.02	.02	.00	.15	.19	.27
Packer, wrapper, exc meat, produce	.00	.00	.00	.02	.02	.00	.15	.19	.27
Other operatives, exc transport	1.98	3.47	1.79	94.76	93.10	92.94	5.92	6.78	4.84
Clothing ironers and pressers	.37	.58	.45	.05	.06	.07	.14	.16	.20
Cutting operatives, other	.00	.00	.00	.31	.37	.76	.03	.05	.09
Dressmakers, exc factory	.46	.78	.18	93.88	92.03	91.22	.23	.29	.17
Garage wrkr, gas station atten	.00	.00	.00	.00	.00	.00	.03	.03	.04
Laundry, dry cleang oprs, other	.78	1.43	.87	.08	.11	.13	.22	.23	.24
Milleners	.02	.02	.00	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.01	.01	.01
Photographic process workers	.00	.00	.00	.00	.00	.00	5.06	5.72	3.79
Sewers and stitchers	.00	.00	.00	.38	.44	.73	.01	.01	.03
Shoemaking machine operatives	.36	.65	.30	.00	.00	.00	.00	.00	.00
Furnace tendr, stokr, exc metal	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other operatives, exc transport	.00	.00	.00	.06	.08	.04	.18	.26	.25
Transport equipment operatives	.08	.21	.20	.12	.21	.56	3.12	3.93	2.65
Delivery and route workers	.08	.21	.20	.02	.02	.02	.31	.38	.50
Fork lift, tow motor operatives	.00	.00	.00	.00	.00	.00	.01	.01	.02
Parking attendants	.00	.00	.00	.00	.00	.00	.08	.11	.05
Taxicab drivers, chauffeurs	.00	.00	.00	.00	.00	.00	2.53	3.23	1.96
Truck drivers	.00	.00	.00	.10	.19	.54	.18	.19	.12
Service workers	8.91	5.27	.96	.86	.97	.68	15.59	15.51	16.18
Cleaning service workers	.39	.72	.30	.44	.49	.19	2.97	3.45	2.54
Lodging qtrs cleaners, exc privt	.00	.00	.00	.11	.06	.01	.18	.13	.15
Bldg interior cleaners, other	.15	.31	.15	.04	.05	.01	1.65	1.92	1.13
Janitors and sextons	.24	.41	.15	.29	.37	.17	1.15	1.41	1.26
Food service workers	.00	.00	.00	.00	.00	.00	.17	.19	.24
Bartenders	.00	.00	.00	.00	.00	.00	.01	.01	.01
Waiters' assistants	.00	.00	.00	.00	.00	.00	.02	.03	.03
Cooks, exc private households	.00	.00	.00	.00	.00	.00	.03	.03	.05
Dishwashers	.00	.00	.00	.00	.00	.00	.03	.03	.04
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.01	.02	.05
Waiters	.00	.00	.00	.00	.00	.00	.05	.04	.05
Other food serv wkrs, exc privt	.00	.00	.00	.00	.00	.00	.03	.03	.01
Health service workers	.00	.00	.00	.00	.00	.00	.34	.50	.87
Health aides, except nursing	.00	.00	.00	.00	.00	.00	.22	.34	.38
Nursing aides and orderlies	.00	.00	.00	.00	.00	.00	.10	.13	.47
Practical nurses	.00	.00	.00	.00	.00	.00	.02	.02	.03
Personal service workers	8.52	4.55	.66	.24	.21	.13	11.97	11.18	12.34
Attendants, recreation, amusement	.00	.00	.00	.00	.00	.00	.05	.05	.04
Attendants, personal serv, other	.09	.14	.05	.10	.08	.03	4.48	4.53	4.56
Baggage porters and bellhops	.00	.00	.00	.00	.00	.00	.01	.01	.14
Barbers	.35	.10	.06	.00	.00	.00	.06	.01	.05
Bootblacks	7.75	3.84	.45	.00	.00	.00	.01	.01	.02
Child care workers, exc private	.10	.09	.04	.08	.05	.06	4.42	2.59	3.44
Elevator operators	.00	.00	.00	.00	.00	.00	.01	.01	.03
Hairdressers and cosmetologists	.23	.37	.07	.00	.00	.00	2.63	3.69	3.90
Housekeepers, exc private homes	.00	.00	.00	.06	.07	.04	.31	.28	.17

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Shoe repair shops			Dressmaking shops			Misc personal services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Protective service workers	.00	.00	.00	.17	.28	.36	.14	.19	.20
Guards	.00	.00	.00	.16	.27	.36	.14	.19	.20
Police and detectives	.00	.00	.00	.02	.01	.00	.00	.00	.00
Laborers, except farm	.11	.09	.14	.02	.02	.00	1.86	2.16	1.86
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.01	.01	.01
Carpenter helpers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Constr labr, exc carpenter help	.00	.00	.00	.00	.00	.00	.04	.04	.01
Gardenrs, groundkeepers, exc farm	.00	.00	.00	.00	.00	.00	.31	.46	.54
Stock handlers	.00	.00	.00	.02	.02	.00	.00	.00	.00
Vehicle washers, equip cleaners	.00	.00	.00	.00	.00	.00	.15	.18	.14
Other laborers	.11	.09	.14	.00	.00	.00	1.34	1.45	1.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc business services			Advertising			Business management services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	18.82	19.49	17.95	22.14	23.79	24.55	41.48	42.83	40.79
Engineers, technical	1.83	1.62	1.77	.05	.04	.03	5.18	4.73	5.13
Aeronautical	.03	.03	.03	.00	.00	.00	.01	.01	.01
Chemical	.06	.05	.05	.00	.00	.00	.01	.01	.01
Civil	.06	.04	.03	.00	.00	.00	.10	.05	.01
Electrical	.52	.47	.47	.00	.00	.00	.25	.20	.16
Industrial	.55	.53	.64	.00	.00	.00	3.98	3.87	4.32
Mechanical	.20	.17	.16	.00	.00	.00	.13	.10	.05
Metallurgical	.02	.02	.03	.00	.00	.00	.00	.00	.00
Petroleum	.00	.00	.00	.00	.00	.00	.01	.01	.01
Sales	.04	.02	.01	.01	.00	.00	.23	.09	.01
Other engineers	.34	.29	.35	.05	.04	.03	.45	.40	.56
Life and physical scientists	.47	.44	.39	.07	.06	.03	.12	.10	.11
Agricultural	.02	.02	.02	.00	.00	.00	.04	.03	.02
Atmospheric and space	.01	.01	.02	.00	.00	.00	.00	.00	.00
Biological	.03	.04	.03	.00	.00	.00	.00	.00	.00
Chemists	.28	.24	.19	.07	.06	.03	.03	.03	.04
Geologists	.02	.01	.03	.00	.00	.00	.01	.01	.01
Physicists and astronomers	.10	.09	.09	.00	.00	.00	.03	.03	.03
Other life, physical scientists	.03	.03	.02	.00	.00	.00	.01	.01	.01
Mathematical specialists	.10	.10	.12	.09	.07	.06	.33	.35	.40
Actuaries	.00	.01	.01	.00	.00	.00	.03	.06	.08
Mathematicians	.04	.05	.06	.00	.00	.00	.06	.05	.01
Statisticians	.05	.04	.06	.09	.07	.06	.24	.25	.31
Engineering, science technicians	1.95	1.75	1.56	.22	.18	.17	1.65	1.35	1.24
Agricultural, biol, exc health	.05	.04	.03	.00	.00	.00	.01	.01	.01
Chemical technicians	.11	.10	.10	.00	.00	.00	.00	.00	.00
Drafters	.64	.51	.47	.11	.09	.10	1.26	.96	.83
Electrical and electronic	.35	.37	.33	.00	.00	.00	.10	.12	.17
Industrial engineering	.02	.03	.03	.01	.01	.01	.02	.03	.04
Mechanical engineering	.02	.02	.02	.00	.00	.00	.00	.00	.00
Surveyors	.03	.02	.02	.03	.02	.01	.16	.13	.09
Other engineering, science tech	.73	.65	.56	.07	.06	.05	.10	.10	.10
Medical workers, exc technicians	.02	.02	.02	.00	.00	.00	.00	.00	.00
Registered nurses	.01	.01	.00	.00	.00	.00	.00	.00	.00
Health technologists, technicians	.03	.04	.04	.00	.00	.00	.00	.00	.00
Clinical lab technologists, tech	.02	.02	.02	.00	.00	.00	.00	.00	.00
Other health technicians	.01	.02	.01	.00	.00	.00	.00	.00	.00
Technicians, except health	.14	.19	.21	.05	.05	.03	.06	.07	.09
Airplane pilots	.01	.01	.01	.02	.02	.01	.01	.01	.01
Radio operators	.03	.04	.02	.00	.00	.00	.00	.00	.00
Tool programmers, numerical	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other technicians except health	.09	.13	.17	.03	.03	.02	.04	.05	.07
Computer specialists	2.50	2.92	2.92	.23	.26	.23	1.87	2.37	2.07
Computer programmers	1.59	1.65	1.58	.17	.17	.15	1.09	1.23	1.06
Computer systems analysts	.76	1.04	1.18	.04	.06	.06	.71	1.02	.94
Other computer specialists	.14	.22	.16	.02	.03	.02	.07	.12	.07
Social scientists	.71	.97	1.08	.37	.52	.57	4.51	6.22	6.72
Economists	.59	.80	.97	.34	.47	.54	3.66	5.00	6.02
Political scientists	.02	.02	.02	.02	.02	.01	.17	.17	.14
Psychologists	.03	.07	.05	.01	.03	.02	.18	.41	.28
Sociologists	.00	.01	.01	.00	.00	.00	.01	.02	.01
Urban and regional planners	.06	.07	.03	.00	.00	.00	.49	.60	.24
Other social scientists	.00	.00	.01	.00	.00	.00	.01	.02	.03
Teachers	.08	.07	.05	.01	.01	.00	.05	.05	.04
Adult education	.04	.04	.04	.01	.01	.00	.05	.05	.04
Other teachers	.04	.02	.01	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc business services			Advertising			Business management services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers,artists,entertainers	3.85	3.55	2.76	17.92	19.54	20.08	11.92	11.74	10.18
Actors	.02	.01	.01	.17	.17	.13	.00	.00	.00
Athletes and kindred workers	.04	.04	.03	.02	.01	.01	.00	.00	.00
Authors	.07	.06	.04	.17	.18	.23	.17	.17	.09
Designers	.87	.77	.69	1.37	1.49	1.44	5.76	5.28	4.96
Editors and reporters	.72	.58	.35	5.28	5.37	5.60	.83	.72	.37
Musicians and composers	.07	.07	.07	.08	.07	.07	.00	.00	.00
Painters and sculptors	.95	.88	.66	9.05	10.39	10.74	.57	.68	.63
Photographers	.21	.15	.08	.55	.49	.59	.08	.06	.04
Public relations specialists	.70	.74	.64	1.01	1.11	1.02	4.22	4.50	3.77
Radio and tv announcers	.00	.00	.00	.04	.04	.06	.00	.00	.00
Other writers,artists,entertain	.21	.23	.20	.20	.21	.20	.29	.34	.31
Other professional and technical	7.16	7.84	7.04	3.13	3.07	3.37	15.80	15.84	14.82
Accountants	2.03	2.02	1.97	1.83	1.94	1.99	11.93	12.00	11.77
Architects	.02	.02	.02	.00	.00	.00	.11	.08	.10
Home management advisors	.01	.00	.00	.03	.02	.01	.02	.02	.01
Lawyers	.08	.12	.06	.06	.10	.10	.14	.18	.04
Librarians	.05	.05	.04	.07	.06	.03	.09	.10	.09
Operations and systems research	.16	.22	.24	.04	.05	.04	.33	.47	.47
Personnel,labcr relations wkrs	4.18	4.86	4.18	.41	.37	.28	1.68	1.64	1.11
Other research workers	.55	.45	.43	.67	.50	.90	1.26	1.12	1.04
Recreation workers	.01	.01	.01	.01	.02	.01	.02	.03	.03
Social workers	.02	.02	.02	.00	.00	.00	.07	.08	.06
Vocation,education counselors	.06	.06	.06	.01	.01	.01	.12	.11	.10
Managers,officials,proprietors	11.36	11.85	11.88	20.72	21.35	20.09	14.98	15.61	15.84
Buyers,sales,loan managers	1.10	1.05	1.32	1.85	1.53	1.37	1.53	1.60	1.98
Bank,financial managers	.18	.18	.17	.26	.23	.18	.68	.69	.64
Credit managers	.18	.10	.07	.08	.04	.02	.03	.02	.01
Purchasing agents,buyers,other	.26	.22	.28	.80	.62	.57	.15	.12	.11
Sales manager, exc retail trade	.49	.55	.81	.71	.64	.61	.66	.76	1.22
Other managers,officials,proprts	10.25	10.81	10.56	18.87	19.81	18.72	13.45	14.02	13.86
Mgrs, superintendents, building	.03	.03	.04	.02	.02	.02	.05	.06	.09
Office managers, other	.99	1.14	1.65	.99	.89	.82	1.26	1.35	1.79
Restaurant,cafe,bar,managers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other managers, administrators	9.23	9.63	8.87	17.85	18.90	17.88	12.14	12.60	11.98
Sales workers	3.84	3.56	3.96	18.61	22.26	28.70	3.29	3.16	3.45
Advertising agents,sales worker	1.57	1.38	1.10	18.60	22.25	28.70	.55	.63	.40
Auctioneers	.17	.12	.08	.01	.01	.00	.00	.00	.00
Demonstrators	.03	.03	.07	.00	.00	.00	.00	.00	.00
Hucksters and peddlers	.30	.15	.04	.00	.00	.00	.00	.00	.00
Other sales workers	1.78	1.89	2.67	.00	.00	.00	2.74	2.53	3.05
Clerical workers	31.38	30.84	30.28	27.52	23.51	19.74	33.14	32.00	35.67
Stenographers,typists,secretaries	11.76	11.05	11.45	13.51	11.91	11.47	11.39	10.67	11.19
Legal secretaries	.10	.10	.13	.01	.01	.01	.03	.03	.05
Medical secretaries	.02	.02	.04	.00	.00	.00	.00	.00	.00
Other secretaries	7.55	7.52	8.45	11.17	10.13	9.88	9.00	8.75	9.43
Stenographers	.44	.28	.27	.10	.06	.03	.20	.11	.04
Typists	3.65	3.13	2.57	2.22	1.72	1.55	2.16	1.79	1.67
Office machine operators	3.24	3.45	2.49	1.06	.83	.64	2.49	2.68	2.01
Bookkeeping and billing	.13	.07	.07	.26	.12	.09	.09	.05	.06
Calculating	.08	.06	.08	.05	.03	.01	.27	.21	.28
Computer and peripheral equip	.81	1.58	1.31	.13	.25	.26	.57	1.23	.99
Duplicating	.11	.10	.11	.07	.05	.03	.16	.14	.16
Keypunch	1.69	1.22	.61	.30	.19	.07	1.20	.87	.40
Tabulating	.02	.01	.00	.02	.01	.00	.03	.01	.00
Other office machine operators	.40	.41	.31	.23	.18	.18	.17	.17	.13

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc business services			Advertising			Business management services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	16.38	16.35	16.35	12.95	10.76	7.63	19.26	18.65	22.47
Billing clerks	.22	.25	.36	.48	.45	.42	.07	.08	.12
Bookkeepers	2.50	2.28	1.90	3.36	2.74	2.00	2.99	2.61	2.27
Cashiers	.17	.19	.20	.07	.07	.06	.08	.08	.09
Clerical supervisors, other	.43	.52	.63	.51	.49	.41	.49	.56	.69
Collectors, bill and account	.68	.67	.52	.04	.03	.01	.03	.02	.02
Counter clerks,exc food	.27	.30	.38	.32	.26	.18	.04	.04	.06
Dispatchers,starters,vehicle	.10	.12	.16	.01	.01	.01	.01	.01	.03
Enumerators and interviewers	.79	.71	1.09	.16	.13	.14	5.92	5.47	8.01
Estimators,investigators,other	1.42	1.78	1.53	.40	.37	.30	.68	.78	.73
Expediters,prduction controlrs	.22	.24	.32	.44	.37	.25	.27	.30	.47
File clerks	.87	.74	.63	.50	.35	.24	.55	.42	.31
Insurance adjusters,examiners	.12	.14	.03	.03	.03	.01	.00	.00	.00
Library attendants, assistants	.07	.07	.03	.06	.06	.01	.08	.10	.05
Mail handlers,exc post office	.53	.54	.56	.81	.66	.45	.30	.30	.35
Messengers and office helpers	.49	.41	.17	1.06	.82	.52	.14	.11	.03
Payroll,timekeeping clerks	.27	.29	.22	.18	.18	.16	.18	.17	.08
Real estate appraisers	.03	.03	.03	.00	.00	.00	.02	.02	.03
Receptionists	1.25	1.25	1.35	1.03	.86	.72	2.67	2.56	2.63
Shipping and receiving clerks	.17	.14	.09	.19	.15	.11	.00	.00	.00
Statistical clerks	.51	.56	.58	.39	.37	.28	1.23	1.41	1.74
Stock clerks and store keepers	.30	.26	.21	.12	.08	.03	.00	.00	.00
Telegraph operators	.02	.01	.00	.00	.00	.00	.00	.00	.00
Telephone operators	1.20	.78	.42	.29	.14	.05	.24	.12	.03
Weighers	.02	.03	.04	.00	.00	.00	.00	.00	.00
Misc clerical workers	3.73	4.06	4.90	2.50	2.15	1.30	3.29	3.49	4.73
Crafts and kindred workers	6.51	6.20	5.64	6.36	5.51	4.41	5.09	4.60	2.92
Construction crafts workers	.95	.77	.56	1.31	1.10	.85	.46	.31	.09
Carpenters and apprentices	.22	.15	.04	.49	.42	.33	.11	.07	.02
Electricians and apprentices	.18	.17	.13	.30	.27	.21	.01	.01	.00
Excavating,grading mach operatr	.08	.08	.10	.01	.01	.01	.00	.00	.00
Painters and apprentices	.23	.19	.15	.48	.38	.29	.28	.18	.07
Paperhangers	.01	.01	.00	.01	.01	.00	.05	.04	.01
Plumbers,pipefitters,aprentices	.20	.16	.12	.00	.00	.00	.01	.01	.00
Structural metal craft workers	.01	.01	.01	.01	.01	.00	.00	.00	.00
Blue collar worker supervisors	.81	.88	1.02	.68	.67	.64	.40	.35	.17
Metalworkg craft wrkrs,exc mech	.22	.18	.16	.19	.13	.07	.10	.08	.06
Machinists and apprentices	.13	.12	.10	.03	.02	.01	.03	.03	.01
Pattern and mclmakers	.02	.01	.01	.04	.03	.02	.04	.03	.03
Sheetmetal workers, apprentices	.03	.02	.02	.12	.08	.04	.03	.02	.03
Tool and diemakers, apprentices	.02	.01	.01	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	2.28	2.35	2.67	1.74	1.38	.98	.79	.77	.92
Air cond, heating, refrig mecn	.05	.06	.05	.00	.00	.00	.01	.01	.01
Aircraft mechanics	.04	.03	.01	.01	.01	.01	.00	.00	.00
Auto accessories installers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Auto body repairers	.04	.03	.03	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.18	.17	.19	.09	.07	.07	.00	.00	.00
Data processing mach repairers	.52	.65	1.04	.00	.00	.00	.19	.25	.37
Farm implement mechanics	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	.46	.53	.51	.09	.09	.06	.12	.14	.13
Household appliance mechanics	.22	.19	.17	1.48	1.16	.81	.10	.09	.09
Office machine repairers	.21	.14	.16	.01	.01	.01	.33	.22	.27
radio, television repairers	.16	.10	.04	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.37	.42	.43	.05	.04	.01	.04	.05	.06
Printing trade crafts workers	.19	.17	.10	.76	.74	.78	.12	.12	.07
Bookbinders	.01	.01	.00	.03	.02	.03	.00	.00	.00
Compositors and typesetters	.05	.04	.02	.47	.46	.49	.06	.05	.01
Engravers exc photoengravers	.01	.01	.01	.02	.02	.01	.00	.00	.00
Photoengravers, lithographers	.02	.02	.01	.04	.03	.02	.00	.00	.00
Press,plate printers,aprentices	.10	.10	.07	.20	.22	.24	.07	.07	.06
Transport,public util craft wrkrs	.28	.33	.14	.00	.00	.00	.02	.02	.02
Telephone installers,repairers	.27	.32	.13	.00	.00	.00	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc business services			Advertising			Business management services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.79	1.50	1.00	1.67	1.49	1.10	3.19	2.95	1.58
Cabinetmakers	.00	.00	.00	.02	.01	.01	.02	.02	.01
Carpet installers	.01	.01	.01	.00	.00	.00	.02	.02	.03
Crane,derrick,hoist operator	.13	.10	.06	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.42	.39	.20	.09	.12	.12	2.89	2.71	1.41
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Inspectors, log and lumber	.03	.02	.00	.00	.00	.00	.00	.00	.00
Inspectors, other	.26	.26	.14	.03	.03	.03	.08	.07	.03
Jewelers and watchmakers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Motion picture projectionists	.01	.00	.00	.02	.02	.02	.00	.00	.00
Sign painters and letterers	.74	.59	.44	1.42	1.23	.85	.01	.01	.01
Stationary engineers	.10	.06	.02	.01	.01	.01	.04	.03	.01
Tailors	.00	.00	.00	.00	.00	.00	.01	.01	.03
Upholsterers	.01	.01	.01	.00	.00	.00	.08	.05	.04
Other crafts workers	.06	.06	.07	.08	.07	.07	.02	.02	.02
Operatives	5.29	5.16	5.01	3.28	2.60	1.82	1.00	.92	.67
Operatives,except transport	4.06	4.08	4.21	2.64	2.08	1.35	.75	.71	.56
Semiskilled metalworking	.12	.11	.11	.15	.14	.14	.01	.01	.01
Solderers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Welders and flamecutters	.08	.08	.07	.15	.14	.14	.01	.01	.01
Semiskilled packing, inspecting	.41	.36	.23	.21	.19	.17	.00	.00	.00
Packer,wrapper,exc meat,prodce	.41	.36	.23	.21	.19	.17	.00	.00	.00
Other operatives, exc transport	3.53	3.61	3.88	2.27	1.74	1.04	.74	.70	.55
Assemblers	.10	.09	.09	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.05	.06	.08	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.09	.08	.06	.03	.03	.03	.40	.39	.26
Drillers, earth	.02	.02	.02	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.01	.01	.01	.00	.00	.00	.00	.00	.00
Garage wrkr,gas station atten	.06	.05	.05	.01	.01	.01	.00	.00	.00
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.02	.02	.02	.00	.00	.00	.00	.00	.00
Oilers,greasers,exc automobiles	.02	.02	.00	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.03	.02	.03	.11	.08	.06	.02	.02	.03
Photographic process workers	1.24	1.26	1.05	.24	.22	.19	.09	.08	.04
Sewers and stitchers	.02	.02	.03	.00	.00	.00	.06	.04	.05
Furnace tendr,stokr,exc metal	.03	.02	.02	.00	.00	.00	.01	.01	.01
Miscellaneous machine operatives	.05	.05	.04	.00	.00	.00	.00	.00	.00
Other operatives,exc transport	1.78	1.88	2.36	1.86	1.40	.76	.16	.16	.17
Transport equipment operatives	1.23	1.08	.80	.65	.53	.47	.25	.21	.11
Bus drivers	.01	.02	.00	.00	.00	.00	.01	.01	.01
Delivery and route workers	.47	.40	.29	.35	.26	.19	.11	.09	.06
Fork lift,tow motor operatives	.05	.06	.08	.02	.02	.01	.01	.01	.01
Parking attendants	.02	.02	.02	.00	.00	.00	.01	.02	.01
Taxicab drivers, chauffeurs	.10	.07	.01	.07	.06	.03	.05	.04	.01
Truck drivers	.57	.51	.41	.21	.20	.25	.06	.04	.01
Service workers	21.57	21.73	23.94	1.06	.77	.58	.92	.77	.53
Cleaning service workers	15.03	13.99	15.81	.73	.52	.34	.59	.52	.39
Lodging qtrs cleaners,exc privt	.17	.10	.16	.00	.00	.00	.00	.00	.00
Bldg interior cleaners, other	11.88	11.05	11.58	.24	.18	.09	.19	.20	.20
Janitors and sextons	2.99	2.85	4.08	.50	.34	.24	.40	.33	.19
Food service wrkrs	.03	.02	.03	.01	.01	.00	.00	.00	.00
Other food serv wkrs,exc privt	.01	.01	.02	.00	.00	.00	.00	.00	.00
Health service workers	.02	.02	.03	.01	.00	.00	.02	.02	.03
Health aides, except nursing	.01	.01	.01	.00	.00	.00	.01	.01	.01
Nursing aides and orderlies	.01	.01	.02	.00	.00	.00	.00	.00	.00
Practical nurses	.01	.01	.01	.01	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Misc business services			Advertising			Business management services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.27	.20	.23	.17	.12	.08	.19	.13	.07
Attendants, personal serv, other	.06	.05	.06	.11	.08	.07	.07	.06	.04
Baggage porters and bellhops	.01	.00	.05	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.02	.01	.03	.01	.00	.01	.01	.01	.01
Elevator operators	.08	.05	.01	.00	.00	.00	.05	.03	.01
Housekeepers, exc private homes	.11	.08	.08	.06	.03	.01	.06	.04	.01
Protective service workers	6.21	7.49	7.84	.14	.13	.16	.11	.09	.04
Firefighters	.02	.02	.01	.00	.00	.00	.00	.00	.00
Guards	5.51	6.91	7.52	.12	.12	.16	.11	.09	.04
Police and detectives	.67	.56	.32	.01	.01	.01	.01	.01	.00
Laborers, except farm	1.23	1.17	1.34	.32	.22	.11	.11	.12	.14
Animal caretakers, exc farm	.02	.03	.03	.00	.00	.00	.00	.00	.00
Carpenter helpers	.00	.00	.01	.01	.01	.01	.00	.00	.00
Constr labr, exc carpenter helpr	.03	.02	.02	.19	.12	.03	.01	.01	.01
Freight and material handlers	.13	.15	.18	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.14	.13	.21	.02	.02	.02	.03	.04	.05
Stock handlers	.14	.17	.18	.00	.00	.00	.04	.04	.05
Vehicle washers, equip cleaners	.11	.13	.16	.01	.01	.00	.01	.01	.01
Warehouse labcrers, other	.06	.05	.02	.03	.02	.02	.00	.00	.00
Other laborers	.59	.48	.52	.07	.05	.03	.02	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Commercial research, development			Computer programming			Detective, protective services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	56.12	55.87	51.90	37.82	39.36	38.42	1.89	2.10	1.78
Engineers, technical	13.37	12.14	12.48	3.06	2.52	2.94	.22	.20	.21
Aeronautical	.47	.49	.51	.01	.02	.05	.00	.00	.00
Chemical	1.10	1.01	.84	.03	.02	.02	.00	.00	.00
Civil	.54	.38	.37	.07	.04	.04	.00	.00	.00
Electrical	4.76	4.40	4.50	1.18	.96	1.03	.04	.04	.05
Industrial	.72	.77	.94	.46	.44	.57	.09	.09	.10
Mechanical	2.26	2.08	2.34	.31	.21	.12	.01	.01	.00
Metallurgical	.36	.39	.55	.00	.00	.00	.00	.00	.00
Petroleum	.03	.03	.07	.00	.00	.00	.00	.00	.00
Sales	.06	.03	.00	.04	.03	.06	.03	.02	.02
Other engineers	3.06	2.55	2.38	.98	.79	1.05	.06	.05	.04
Life and physical scientists	7.67	7.56	6.30	.17	.13	.09	.01	.01	.01
Agricultural	.21	.25	.31	.00	.00	.00	.00	.00	.00
Atmospheric and space	.13	.24	.30	.00	.00	.00	.00	.00	.00
Biological	.59	.85	.54	.00	.00	.00	.00	.00	.00
Chemists	4.41	3.95	2.98	.05	.04	.03	.01	.01	.01
Geologists	.18	.17	.32	.05	.04	.03	.00	.00	.00
Marine	.02	.03	.06	.00	.00	.00	.00	.00	.00
Physicists and astronomers	1.72	1.66	1.48	.04	.04	.03	.00	.00	.00
Other life, physical scientists	.40	.41	.32	.02	.02	.01	.00	.00	.00
Mathematical specialists	.67	.86	1.21	.24	.19	.12	.00	.00	.00
Mathematicians	.47	.65	.92	.17	.14	.07	.00	.00	.00
Statisticians	.20	.20	.29	.07	.06	.05	.00	.00	.00
Engineering, science technicians	18.72	17.59	14.47	1.71	1.47	1.26	.16	.18	.24
Agricultural, biologic, exc health	.96	.84	.46	.00	.00	.00	.00	.00	.00
Chemical technicians	1.74	1.70	1.43	.00	.00	.00	.00	.00	.00
Drafters	1.40	1.16	1.29	.22	.14	.09	.07	.06	.09
Electrical and electronic	2.32	2.41	2.10	1.17	1.06	.92	.08	.10	.14
Industrial engineering	.11	.15	.19	.03	.03	.04	.00	.00	.00
Mathematical technicians	.02	.03	.08	.00	.00	.00	.00	.00	.00
Mechanical engineering	.27	.31	.35	.01	.01	.01	.00	.00	.00
Surveyors	.05	.04	.03	.00	.00	.00	.01	.01	.01
Other engineering, science tech	11.85	10.95	8.53	.28	.23	.20	.01	.01	.01
Medical workers, exc technicians	.23	.23	.17	.00	.00	.00	.01	.01	.01
Dentists	.02	.01	.01	.00	.00	.00	.00	.00	.00
Dietitians	.02	.02	.02	.00	.00	.00	.00	.00	.00
Pharmacists	.02	.02	.00	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.05	.04	.00	.00	.00	.00	.00	.00	.00
Registered nurses	.08	.04	.01	.00	.00	.00	.00	.00	.01
Therapists	.02	.02	.02	.00	.00	.00	.00	.00	.00
Veterinarians	.03	.04	.09	.00	.00	.00	.00	.00	.00
Other medical and health tech	.01	.05	.02	.00	.00	.00	.00	.00	.00
Health technologists, technicians	.46	.58	.61	.00	.00	.00	.00	.00	.00
Clinical lab technologists, tech	.29	.34	.44	.00	.00	.00	.00	.00	.00
Radiologic technologists, tech	.06	.08	.07	.00	.00	.00	.00	.00	.00
Other health technicians	.10	.16	.10	.00	.00	.00	.00	.00	.00
Technicians, except health	.48	.67	.96	.17	.20	.27	.30	.37	.28
Airplane pilots	.02	.02	.01	.00	.00	.00	.03	.03	.03
Radio operators	.00	.00	.00	.00	.00	.00	.16	.20	.11
Tool programmers, numerical	.03	.04	.08	.03	.02	.01	.00	.00	.00
Other technicians except health	.42	.61	.87	.15	.18	.26	.11	.14	.15
Computer specialists	3.15	4.07	4.44	26.97	29.38	28.64	.06	.07	.05
Computer programmers	2.05	2.43	2.86	17.26	16.55	15.06	.06	.06	.04
Computer systems analysts	.88	1.27	1.35	8.20	10.59	12.00	.01	.01	.01
Other computer specialists	.22	.36	.22	1.50	2.24	1.59	.00	.00	.00
Social scientists	.82	1.29	1.28	.70	1.00	1.28	.00	.00	.01
Economists	.55	.83	.92	.69	.98	1.28	.00	.00	.00
Political scientists	.07	.06	.03	.00	.00	.00	.00	.00	.00
Psychologists	.12	.28	.19	.01	.01	.00	.00	.00	.00
Sociologists	.03	.07	.11	.00	.00	.00	.00	.00	.00
Urban and regional planners	.03	.05	.03	.01	.01	.00	.00	.00	.00
Other social scientists	.01	.01	.01	.00	.00	.00	.00	.00	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Commercial research, development			Computer programing			Detective, protective services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Teachers	.03	.05	.09	.67	.53	.29	.01	.01	.01
Adult education	.02	.04	.06	.42	.39	.23	.01	.01	.01
Preschool and kindergarten	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other teachers	.00	.00	.00	.25	.13	.06	.00	.00	.00
Writers,artists,entertainers	2.58	2.91	2.66	1.09	1.03	.79	.17	.21	.20
Authors	.33	.30	.13	.00	.00	.00	.00	.00	.00
Designers	.66	.70	.51	.33	.30	.18	.02	.03	.03
Editors and reporters	.38	.36	.23	.22	.19	.14	.01	.00	.01
Painters and sculptors	.35	.53	.73	.00	.00	.00	.00	.00	.00
Photographers	.25	.19	.08	.04	.03	.03	.01	.01	.01
Public relations specialists	.17	.21	.19	.15	.15	.10	.09	.12	.11
Other writers,artists,entertain	.43	.62	.79	.34	.37	.33	.04	.05	.04
Other professional and technical	7.96	7.93	7.23	3.06	2.91	2.75	.95	1.04	.78
Accountants	1.00	1.04	.78	1.19	1.20	1.44	.30	.36	.37
Architects	.06	.05	.05	.07	.04	.04	.00	.00	.00
Foresters and conservationists	.04	.03	.00	.00	.00	.00	.00	.00	.00
Home management advisors	.02	.01	.01	.00	.00	.00	.00	.00	.00
Lawyers	.18	.30	.23	.04	.05	.02	.04	.05	.02
Librarians	.27	.28	.25	.12	.10	.07	.01	.01	.01
Operations and systems research	.90	1.34	1.54	.42	.54	.59	.02	.04	.04
Personnel,labcr relations wkrs	.65	.68	.55	.85	.71	.42	.51	.50	.26
Other research workers	4.80	4.13	3.78	.38	.26	.16	.04	.03	.02
Recreation workers	.01	.00	.00	.01	.01	.01	.00	.00	.00
Social workers	.01	.05	.04	.00	.00	.00	.04	.05	.05
Vocation,education counselors	.02	.02	.01	.00	.00	.00	.00	.00	.00
Managers,officials,proprietors	7.96	8.83	9.67	12.08	12.48	15.50	5.16	6.16	7.42
Buyers,sales,loan managers	1.02	1.07	1.67	1.36	1.29	1.91	.33	.38	.50
Bank,financial managers	.23	.24	.26	.33	.30	.31	.00	.00	.00
Credit managers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Purchasing agents,buyers,other	.62	.62	1.03	.21	.18	.26	.03	.03	.05
Sales manager, exc retail trade	.17	.20	.38	.82	.82	1.34	.31	.35	.45
Other managers,officials,properts	6.93	7.76	8.00	10.72	11.19	13.59	4.83	5.78	6.92
Mgrs, superintendents, building	.02	.02	.02	.01	.01	.01	.00	.00	.00
Office managers, other	.23	.25	.37	.48	.45	.63	.60	.60	.55
Officers,pilots,pursers,snip	.02	.01	.00	.00	.00	.00	.00	.00	.00
Restaurant,cafe,bar,managers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other managers, administrators	6.65	7.47	7.60	10.23	10.73	12.95	4.23	5.19	6.37
Sales workers	.57	.58	.87	2.52	2.29	3.47	1.06	1.07	1.38
Advertising agents,sales worker	.01	.01	.01	.04	.04	.05	.01	.01	.01
Other sales workers	.56	.57	.85	2.48	2.24	3.43	1.05	1.06	1.36
Clerical workers	19.39	19.46	22.28	34.82	33.87	27.39	11.09	11.14	11.19
Stenographrs,typists,secretaries	9.89	9.38	11.10	6.68	5.29	5.00	3.52	3.42	3.59
Legal secretaries	.04	.04	.06	.04	.03	.02	.02	.02	.03
Medical secretaries	.04	.03	.06	.00	.00	.00	.00	.00	.00
Other secretaries	7.62	7.56	9.39	5.45	4.45	4.41	2.73	2.76	3.01
Stenographers	.20	.13	.09	.07	.04	.02	.07	.04	.02
Typists	2.00	1.63	1.50	1.13	.77	.56	.71	.61	.53
Office machine operators	1.66	2.24	1.72	20.12	21.71	15.29	.27	.29	.15
Bookkeeping and billing	.04	.02	.04	.11	.05	.04	.02	.01	.02
Calculating	.02	.01	.01	.13	.07	.05	.00	.00	.00
Computer and peripheral equip	.78	1.58	1.23	7.94	14.17	11.50	.08	.16	.09
Duplicating	.11	.11	.15	.06	.04	.02	.00	.00	.00
Keypunch	.58	.40	.15	11.55	7.21	3.59	.14	.09	.03
Tabulating	.01	.00	.00	.15	.04	.03	.00	.00	.00
Other office machine operators	.11	.12	.13	.18	.13	.07	.03	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Commercial research, development			Computer programming			Detective, protective services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	7.84	7.84	9.47	8.02	6.87	7.09	7.30	7.43	7.45
Billing clerks	.09	.11	.22	.10	.10	.17	.14	.14	.14
Bookkeepers	1.46	1.35	1.28	1.22	.94	.75	1.00	.98	1.03
Cashiers	.07	.08	.08	.03	.02	.01	.27	.26	.18
Clerical supervisors, other	.30	.35	.48	.82	.85	1.15	.17	.21	.22
Collectors, bill and account	.01	.00	.00	.00	.00	.00	.07	.06	.07
Counter clerks, exc food	.08	.09	.13	.00	.00	.00	.04	.05	.05
Dispatchers, starters, vehicle	.05	.05	.06	.11	.10	.12	.44	.47	.55
Enumerators and interviewers	.70	.60	.73	.00	.00	.00	.00	.00	.00
Estimators, investigators, other	.30	.36	.40	.57	.47	.19	.31	.36	.30
Expeditors, production controls	.47	.55	.89	.62	.58	.82	.11	.12	.15
File clerks	.37	.30	.32	.29	.19	.14	.14	.12	.11
Insurance adjusters, examiners	.01	.02	.02	.00	.00	.00	.11	.13	.06
Library attendants, assistants	.26	.26	.11	.40	.38	.17	.00	.00	.00
Mail handlers, exc post office	.26	.26	.35	.25	.21	.23	.07	.07	.07
Messengers and office helpers	.04	.04	.02	.09	.06	.03	.33	.34	.32
Payroll, timekeeping clerks	.15	.16	.12	.29	.23	.11	.50	.56	.54
Receptionists	.38	.37	.41	.49	.40	.41	.40	.39	.36
Shipping and receiving clerks	.29	.24	.19	.10	.07	.06	.06	.06	.06
Statistical clerks	.53	.61	.83	.61	.57	.64	.16	.17	.18
Stock clerks and store keepers	.45	.44	.61	.34	.25	.24	.03	.04	.05
Telephone operators	.23	.11	.03	.25	.11	.04	.31	.23	.23
Weighers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Misc clerical workers	1.35	1.48	2.17	1.46	1.33	1.82	2.63	2.68	2.80
Crafts and kindred workers	8.11	7.96	8.17	9.31	9.26	13.00	6.49	6.56	5.22
Construction crafts workers	1.44	1.21	.85	.11	.09	.11	1.07	1.08	1.27
Carpenters and apprentices	.30	.24	.10	.03	.02	.03	.02	.02	.03
Brick, stonemasons, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Bulldozer operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.64	.55	.32	.03	.03	.03	.27	.30	.39
Excavating, grading mach operatr	.01	.01	.01	.00	.00	.00	.00	.00	.00
Painters and apprentices	.20	.22	.36	.01	.01	.01	.02	.01	.01
Plasterers and apprentices	.00	.00	.00	.00	.00	.00	.03	.03	.02
Plumbers, pipefitters, apprentices	.25	.16	.04	.04	.03	.04	.74	.72	.82
Structural metal craft workers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	1.14	1.20	1.36	.67	.56	.42	.73	.82	.88
Metalworkg craft wrkrs, exc mech	1.66	1.60	1.86	.42	.27	.13	.00	.00	.00
Boilermakers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Heat treaters, annealers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Job and die setters, metal	.01	.01	.01	.00	.00	.00	.00	.00	.00
Machinists and apprentices	1.10	1.12	1.32	.21	.13	.04	.00	.00	.00
Millwrights	.08	.08	.08	.03	.02	.01	.00	.00	.00
Pattern and mcldmakers	.13	.10	.15	.03	.02	.01	.00	.00	.00
Sheetmetal workers, apprentices	.15	.13	.13	.01	.01	.01	.00	.00	.00
Tool and diemakers, apprentices	.15	.13	.15	.15	.10	.07	.00	.00	.00
Mechanics, repairers, installers	1.99	2.15	2.79	7.76	8.08	12.19	1.75	1.77	1.84
Air cond, heating, refrig mech	.13	.17	.17	.01	.01	.01	.00	.00	.00
Aircraft mechanics	.13	.11	.05	.00	.00	.00	.01	.01	.01
Auto accessories installers	.00	.00	.00	.00	.00	.00	.18	.18	.20
Auto body repairers	.00	.00	.00	.00	.00	.00	.08	.06	.05
Auto mechanics and apprentices	.33	.33	.53	.34	.28	.35	.36	.34	.43
Data processing mach repairers	.09	.11	.14	5.83	6.69	10.60	.01	.01	.01
Farm implement mechanics	.01	.01	.01	.00	.00	.00	.00	.00	.00
Heavy equip mech, incl diesel	.55	.66	.97	.37	.37	.47	.07	.09	.12
Household appliance mechanics	.04	.04	.06	.01	.01	.01	.03	.04	.06
Office machine repairers	.01	.01	.01	1.00	.57	.65	.00	.00	.00
Radio, television repairers	.18	.14	.11	.10	.06	.03	.08	.07	.07
Other mechanics and apprentices	.51	.57	.75	.10	.08	.07	.92	.96	.89
Printing trade crafts workers	.19	.17	.07	.09	.08	.05	.00	.00	.00
Compositors and typesetters	.06	.04	.00	.02	.02	.01	.00	.00	.00
Engravers exc photoengravers	.02	.01	.00	.00	.00	.00	.00	.00	.00
Photoengravers, lithographers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Press, plate printers, apprentices	.10	.10	.06	.07	.06	.05	.00	.00	.00
Transport, public util craft wkrs	.01	.01	.00	.01	.01	.01	2.55	2.48	.69
Telephone installers, repairers	.00	.00	.00	.01	.01	.01	2.55	2.48	.69

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Commercial research, development			Computer programing			Detective, protective services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.68	1.62	1.25	.25	.17	.09	.39	.41	.54
Bakers	.02	.02	.00	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.02	.01	.01	.00	.00	.00	.00	.00	.00
Inspectors, log and lumber	.02	.01	.00	.00	.00	.00	.00	.00	.00
Inspectors, other	1.20	1.20	.85	.04	.04	.03	.28	.32	.33
Jewelers and watchmakers	.01	.01	.02	.00	.00	.00	.10	.08	.20
Opticians,lens grinder,polisher	.02	.02	.00	.02	.01	.01	.00	.00	.00
Stationary engineers	.28	.24	.23	.18	.12	.06	.00	.00	.00
Other crafts workers	.10	.10	.14	.01	.01	.00	.01	.01	.01
Operatives	3.92	3.69	3.91	2.36	1.89	1.40	3.21	3.07	3.35
Operatives,except transport	2.86	2.95	3.64	2.12	1.70	1.24	.32	.31	.36
Semiskilled metalworking	.65	.63	.84	.27	.20	.15	.00	.00	.00
Drill press operatives	.02	.02	.01	.00	.00	.00	.00	.00	.00
Furnace tendrs,smeltrs,pourers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Grinding machine operatives	.03	.03	.04	.04	.02	.00	.00	.00	.00
Lathe,milling mach operatives	.10	.09	.16	.01	.01	.01	.00	.00	.00
Metal platers	.02	.02	.02	.02	.02	.05	.00	.00	.00
Other precision mach operators	.04	.03	.06	.02	.01	.01	.00	.00	.00
Punch,stamping press operatives	.02	.02	.02	.06	.04	.03	.00	.00	.00
Solderers	.07	.06	.04	.12	.09	.05	.00	.00	.00
Welders and flamecutters	.34	.35	.46	.02	.01	.01	.00	.00	.00
Semiskilled packing, inspecting	.15	.11	.05	.11	.08	.06	.00	.00	.00
Packer,wrapper,exc meat,prodce	.14	.11	.05	.11	.08	.06	.00	.00	.00
Other operatives, exc transport	2.06	2.20	2.75	1.74	1.42	1.03	.32	.31	.36
Asbestos,insulation workers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Assemblers	.35	.41	.67	1.12	.90	.63	.00	.00	.00
Surveyors' helpers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cutting operatives, other	.03	.04	.08	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.01	.01	.01	.00	.00	.00	.00	.00	.00
Drillers, earth	.16	.16	.21	.00	.00	.00	.00	.00	.00
Filer,polisher,sander,buffer	.00	.00	.00	.01	.01	.01	.00	.00	.00
Garage wrkr,gas station atten	.01	.01	.01	.01	.01	.01	.03	.02	.03
Laundry,dry cleang oprs,other	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.04	.05	.08	.00	.00	.00	.00	.00	.00
Painters, mfg articles	.02	.01	.00	.01	.01	.00	.00	.00	.00
Photographic process workers	.19	.18	.18	.06	.05	.03	.00	.00	.00
Sewers and stitchers	.02	.01	.01	.00	.00	.00	.00	.00	.00
Furnace tendr,stokr,exc metal	.09	.04	.01	.00	.00	.00	.15	.11	.14
Winding operatives, other	.01	.01	.00	.07	.05	.04	.00	.00	.00
Miscellaneous machine operatves	.45	.48	.59	.27	.22	.15	.00	.00	.00
Other operatives,exc transport	.63	.73	.90	.19	.18	.17	.15	.17	.19
Transport equipment operatives	1.07	.74	.27	.24	.19	.16	2.88	2.77	2.99
Bus drivers	.06	.07	.01	.00	.00	.00	.00	.00	.00
Delivery and route workers	.14	.10	.07	.12	.08	.07	.30	.28	.32
Fork lift,tow motor operatives	.03	.05	.10	.02	.02	.02	.00	.00	.00
Parking attendants	.00	.00	.00	.00	.00	.00	.04	.05	.07
Taxicab drivers, chauffeurs	.56	.32	.02	.02	.02	.01	.19	.16	.05
Truck drivers	.29	.20	.07	.07	.06	.06	2.35	2.28	2.56
Service workers	2.77	2.33	1.64	.82	.64	.63	70.62	69.45	69.17
Cleaning service workers	1.66	1.41	1.03	.51	.40	.34	.62	.54	.33
Bldg interior cleaners, other	.32	.32	.37	.09	.08	.06	.10	.10	.09
Janitors and sextons	1.34	1.09	.65	.42	.32	.28	.52	.44	.24
Food service workers	.28	.20	.20	.09	.07	.07	.00	.00	.00
Cooks,exc private households	.10	.05	.01	.03	.02	.02	.00	.00	.00
Dishwashers	.05	.04	.07	.01	.01	.01	.00	.00	.00
Food counter,fountain workers	.05	.05	.04	.01	.01	.02	.00	.00	.00
Waiters	.04	.02	.01	.01	.01	.01	.00	.00	.00
Other food serv wkrs,exc privt	.04	.04	.08	.04	.02	.01	.00	.00	.00
Health service workers	.07	.07	.09	.06	.04	.07	.03	.03	.04
Dental assistants	.02	.01	.00	.00	.00	.00	.00	.00	.00
Health aides, except nursing	.04	.06	.06	.00	.00	.00	.00	.00	.00
Nursing aides and orderlies	.01	.01	.02	.06	.04	.07	.00	.00	.00
Practical nurses	.00	.00	.00	.00	.00	.00	.03	.03	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Commercial research, development			Computer programing			Detective, protective services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.10	.09	.06	.03	.02	.01	.10	.07	.15
Attendants, personal serv, other	.02	.02	.02	.00	.00	.00	.03	.02	.02
Baggage porters and bellhops	.00	.00	.00	.00	.00	.00	.01	.01	.09
Child care workers, exc private	.00	.00	.00	.00	.00	.00	.04	.02	.03
Elevator operators	.00	.00	.00	.00	.00	.00	.03	.02	.01
Hairdressers and cosmetologists	.07	.06	.03	.00	.00	.00	.00	.00	.00
Housekeepers, exc private homes	.02	.02	.01	.03	.02	.01	.00	.00	.00
Protective service workers	.66	.54	.27	.13	.12	.15	69.88	68.81	68.65
Firefighters	.02	.02	.02	.00	.00	.00	.19	.13	.05
Guards	.62	.51	.26	.13	.12	.15	61.99	63.48	65.84
Police and detectives	.02	.01	.00	.00	.00	.00	7.70	5.20	2.77
Laborers, except farm	1.17	1.29	1.56	.27	.22	.19	.48	.46	.49
Animal caretakers, exc farm	.42	.52	.60	.00	.00	.00	.02	.02	.01
Carpenter helpers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Constr labr, exc carpenter helpr	.09	.09	.13	.00	.01	.00	.01	.00	.01
Freight and material handlers	.16	.16	.22	.05	.04	.04	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.11	.14	.21	.01	.01	.01	.11	.07	.07
Stock handlers	.04	.05	.07	.11	.10	.11	.15	.18	.19
Vehicle washers, equip cleaners	.10	.11	.14	.02	.02	.01	.11	.13	.15
Warehouse labcrers, other	.08	.07	.06	.02	.02	.01	.00	.00	.00
Other laborers	.17	.14	.13	.05	.03	.01	.09	.07	.07

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Employment, temporary help			Services to buildings			Other business services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	29.74	32.23	27.79	.48	.57	.56	9.64	10.32	8.82
Engineers, technical	.00	.00	.00	.05	.04	.02	1.05	1.02	1.05
Civil	.00	.00	.00	.02	.01	.00	.06	.03	.00
Electrical	.00	.00	.00	.00	.00	.00	.52	.52	.48
Industrial	.00	.00	.00	.01	.02	.02	.12	.15	.22
Mechanical	.00	.00	.00	.02	.02	.01	.13	.11	.06
Sales	.00	.00	.00	.00	.00	.00	.03	.02	.00
Other engineers	.00	.00	.00	.00	.00	.00	.18	.19	.28
Life and physical scientists	.00	.00	.00	.00	.00	.00	.11	.11	.10
Chemists	.00	.00	.00	.00	.00	.00	.09	.09	.08
Geologists	.00	.00	.00	.00	.00	.00	.01	.01	.02
Other life, physical scientists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Engineering, science technicians	.03	.04	.10	.05	.06	.10	2.09	1.91	1.84
Chemical technicians	.00	.00	.00	.00	.00	.00	.04	.06	.09
Drafters	.00	.00	.00	.00	.00	.00	1.38	1.12	1.13
Electrical and electronic	.00	.00	.00	.02	.03	.05	.44	.49	.41
Industrial engineering	.00	.00	.00	.00	.00	.00	.03	.04	.04
Surveyors	.00	.00	.00	.00	.00	.00	.02	.02	.01
Other engineering, science techn	.03	.04	.10	.02	.03	.05	.18	.19	.16
Medical workers, exc technicians	.00	.00	.00	.00	.00	.00	.03	.03	.02
Registered nurses	.00	.00	.00	.00	.00	.00	.03	.02	.01
Therapists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Health technolcists, technicians	.00	.00	.00	.00	.00	.00	.02	.03	.02
Other health technicians	.00	.00	.00	.00	.00	.00	.01	.03	.02
Technicians, except health	.00	.00	.00	.00	.00	.00	.23	.33	.39
Airplane pilots	.00	.00	.00	.00	.00	.00	.02	.03	.02
Radio operators	.00	.00	.00	.00	.00	.00	.05	.06	.04
Tool programmers, numerical	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other technicians except health	.00	.00	.00	.00	.00	.00	.16	.23	.31
Computer specialists	.17	.21	.21	.00	.00	.00	.79	1.00	.68
Computer programmers	.14	.17	.17	.00	.00	.00	.50	.57	.40
Computer systems analysts	.02	.03	.04	.00	.00	.00	.24	.34	.24
Other computer specialists	.01	.01	.00	.00	.00	.00	.05	.09	.05
Social scientists	.01	.04	.04	.00	.00	.00	.33	.52	.53
Economists	.00	.00	.00	.00	.00	.00	.31	.49	.51
Psychologists	.01	.04	.04	.00	.00	.00	.01	.02	.02
Teachers	.00	.00	.00	.00	.00	.00	.08	.06	.05
Adult education	.00	.00	.00	.00	.00	.00	.02	.03	.03
Other teachers	.00	.00	.00	.00	.00	.00	.06	.04	.02
Writers, artists, entertainers	.34	.43	.43	.04	.05	.06	2.96	3.09	2.41
Actors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Athletes and kindred workers	.01	.01	.03	.00	.00	.00	.12	.13	.09
Authors	.03	.04	.03	.00	.00	.00	.04	.04	.02
Designers	.00	.00	.00	.00	.00	.00	.25	.26	.18
Editors and reporters	.00	.00	.00	.00	.00	.00	.60	.59	.35
Musicians and composers	.00	.00	.00	.00	.00	.00	.22	.23	.24
Painters and sculptors	.00	.00	.00	.00	.00	.00	.54	.67	.66
Photographers	.00	.00	.00	.00	.00	.00	.49	.36	.18
Public relations specialists	.30	.38	.37	.04	.05	.06	.31	.40	.34
Other writers, artists, entertain	.00	.00	.00	.00	.00	.00	.38	.40	.34

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Employment, temporary help			Services to buildings			Other business services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	29.19	31.51	27.01	.34	.41	.37	1.95	2.23	1.73
Accountants	.79	.94	1.04	.12	.14	.14	1.01	1.13	.86
Lawyers	.05	.07	.04	.05	.08	.06	.10	.15	.05
Librarians	.00	.00	.00	.00	.00	.00	.04	.04	.04
Operations and systems research	.00	.00	.00	.00	.00	.00	.13	.20	.20
Personnel, labor relations wkrs	27.92	30.06	25.46	.17	.19	.18	.43	.46	.34
Other research workers	.15	.15	.17	.00	.00	.00	.20	.19	.16
Recreation workers	.00	.00	.00	.00	.00	.00	.01	.02	.02
Social workers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Vocation, education counselors	.27	.29	.31	.00	.00	.00	.02	.02	.02
Managers, officials, proprietors	11.14	11.54	10.95	5.18	5.28	4.70	13.72	15.12	16.59
Buyers, sales, loan managers	.51	.53	.80	.28	.35	.64	1.71	1.60	1.98
Bank, financial managers	.00	.00	.00	.00	.00	.00	.19	.20	.20
Credit managers	.12	.07	.04	.01	.00	.00	.51	.29	.24
Purchasing agents, buyers, other	.04	.04	.08	.03	.03	.06	.40	.38	.56
Sales manager, exc retail trade	.35	.42	.68	.24	.32	.58	.62	.72	.99
Other managers, officials, proprt	10.63	11.02	10.14	4.90	4.93	4.06	12.01	13.53	14.62
Mgrs, superintendents, building	.01	.02	.01	.08	.06	.05	.01	.02	.04
Office managers, other	2.27	2.72	4.58	.25	.30	.54	1.16	1.35	1.94
Restaurant, cafe, bar, managers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other managers, administrators	8.34	8.28	5.56	4.57	4.56	3.47	10.83	12.15	12.62
Sales workers	1.32	1.40	2.13	.97	1.12	1.89	4.74	4.33	5.42
Advertising agents, sales worker	.07	.08	.05	.01	.01	.02	.10	.13	.10
Auctioneers	.00	.00	.00	.00	.00	.00	.59	.40	.32
Demonstrators	.11	.09	.14	.00	.00	.00	.04	.05	.19
Hucksters and peddlers	.00	.00	.00	.00	.00	.00	1.03	.51	.16
Other sales workers	1.14	1.24	1.94	.97	1.11	1.88	2.98	3.23	4.65
Clerical workers	53.40	50.77	54.76	3.90	3.75	4.01	46.51	46.21	46.75
Stenographers, typists, secretaries	31.23	29.51	31.78	1.78	1.78	2.20	12.87	11.79	12.40
Legal secretaries	.48	.42	.49	.00	.00	.00	.09	.09	.15
Medical secretaries	.08	.06	.13	.00	.00	.00	.04	.03	.05
Other secretaries	19.11	19.54	23.33	1.56	1.60	2.04	6.45	6.60	7.56
Stenographers	.80	.39	.07	.01	.01	.01	.97	.66	.94
Typists	10.75	9.10	7.76	.21	.18	.14	5.32	4.41	3.71
Office machine operators	3.71	2.85	1.74	.04	.03	.05	3.09	3.38	2.61
Bookkeeping and billing	.31	.15	.09	.02	.01	.03	.14	.09	.11
Calculating	.00	.00	.00	.01	.01	.02	.13	.11	.14
Computer and peripheral equip	.00	.00	.00	.00	.00	.00	.49	1.09	.85
Duplicating	.07	.07	.10	.00	.00	.00	.23	.21	.27
Keypunch	2.96	2.23	1.16	.00	.00	.00	1.09	.83	.38
Tabulating	.00	.00	.00	.00	.00	.00	.03	.01	.00
Other office machine operators	.37	.40	.39	.01	.01	.01	.99	1.04	.85

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Employment, temporary help			Services to buildings			Other business services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	18.47	18.42	21.24	2.09	1.94	1.76	30.55	31.05	31.74
Billing clerks	.33	.40	.73	.02	.03	.06	.36	.43	.67
Bookkeepers	4.22	3.98	3.48	1.13	.89	.42	3.10	2.99	2.83
Cashiers	.18	.19	.24	.01	.02	.03	.33	.37	.45
Clerical supervisors, other	.43	.53	.76	.05	.09	.20	.65	.81	.97
Collectors, bill and account	.03	.03	.02	.02	.03	.04	2.26	2.20	1.96
Counter clerks,exc food	.06	.07	.11	.02	.02	.04	.76	.89	1.28
Dispatchers, starters, vehicle	.00	.00	.00	.03	.03	.03	.17	.20	.29
Enumerators and interviewers	.27	.28	.45	.01	.01	.00	.19	.20	.35
Estimators, investigators, other	.39	.50	.59	.14	.18	.17	3.99	5.05	4.85
Expeditors, production controls	.00	.00	.00	.00	.00	.00	.28	.34	.52
File clerks	2.56	2.21	2.40	.05	.04	.07	1.29	1.03	.67
Insurance adjusters, examiners	.00	.00	.00	.00	.00	.00	.37	.43	.10
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.04	.05	.02
Mail handlers, exc post office	.47	.46	.47	.01	.01	.00	1.16	1.26	1.51
Messengers and office helpers	.22	.18	.06	.01	.01	.00	1.13	.98	.39
Payroll, timekeeping clerks	.65	.65	.40	.14	.15	.15	.19	.19	.13
Real estate appraisers	.00	.00	.00	.00	.00	.00	.10	.10	.08
Receptionists	4.39	4.46	5.39	.11	.10	.08	.67	.62	.46
Shipping and receiving clerks	.00	.00	.00	.02	.01	.01	.43	.37	.26
Statistical clerks	.61	.69	.70	.03	.02	.00	.60	.68	.63
Stock clerks and store keepers	.00	.00	.00	.07	.07	.09	.79	.68	.52
Telegraph operators	.00	.00	.00	.00	.00	.00	.06	.04	.00
Telephone operators	.85	.52	.28	.03	.02	.01	3.39	2.19	1.33
Weighers	.00	.00	.00	.00	.00	.00	.08	.09	.13
Misc clerical workers	2.83	3.28	5.18	.19	.22	.38	8.19	8.86	11.34
Crafts and kindred workers	.00	.00	.00	3.11	2.87	2.92	11.25	10.72	9.86
Construction crafts workers	.00	.00	.00	1.04	.70	.29	1.48	1.29	1.05
Carpenters and apprentices	.00	.00	.00	.39	.21	.02	.26	.21	.07
Brick, stonemasons, apprentices	.00	.00	.00	.01	.01	.03	.01	.01	.01
Cement and concrete finishers	.00	.00	.00	.00	.01	.01	.00	.00	.00
Electricians and apprentices	.00	.00	.00	.13	.12	.10	.25	.23	.14
Excavating, grading mach operatr	.00	.00	.00	.02	.01	.00	.27	.26	.37
Floor layers, exc tile setters	.00	.00	.00	.03	.01	.00	.00	.00	.00
Painters and apprentices	.00	.00	.00	.31	.24	.10	.33	.32	.36
Plumbers, pipefitters, apprentices	.00	.00	.00	.11	.05	.00	.33	.23	.07
Structural metal craft workers	.00	.00	.00	.01	.01	.01	.03	.02	.04
Tile setters	.00	.00	.00	.01	.01	.01	.00	.00	.00
Blue collar worker supervisors	.00	.00	.00	1.07	1.37	2.23	1.20	1.31	1.25
Metalworkg craft wkrs, exc mech	.00	.00	.00	.07	.05	.02	.22	.20	.12
Boilermakers	.00	.00	.00	.03	.02	.01	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.02	.02	.01	.17	.16	.09
Millwrights	.00	.00	.00	.01	.01	.00	.00	.00	.00
Pattern and moldmakers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Sheetmetal workers, apprentices	.00	.00	.00	.01	.01	.00	.04	.03	.02
Mechanics, repairers, installers	.00	.00	.00	.60	.56	.34	3.99	4.16	4.50
Air cond, heating, refrig mech	.00	.00	.00	.10	.09	.03	.08	.11	.12
Aircraft mechanics	.00	.00	.00	.00	.00	.00	.12	.09	.03
Auto body repairers	.00	.00	.00	.00	.00	.00	.11	.08	.08
Auto mechanics and apprentices	.00	.00	.00	.07	.07	.11	.31	.29	.25
Data processing mach repairers	.00	.00	.00	.01	.02	.02	.31	.44	.64
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.02	.03	.05
Heavy equip mech, incl diesel	.00	.00	.00	.30	.28	.12	1.14	1.35	1.42
Household appliance mechanics	.00	.00	.00	.04	.04	.03	.29	.33	.46
Office machine repairers	.00	.00	.00	.01	.01	.01	.34	.24	.31
Radio, television repairers	.00	.00	.00	.00	.00	.00	.45	.29	.09
Other mechanics and apprentices	.00	.00	.00	.07	.06	.03	.83	.90	1.04
Printing trade crafts workers	.00	.00	.00	.01	.01	.00	.35	.34	.24
Bookbinders	.00	.00	.00	.00	.00	.00	.03	.02	.01
Compositors and typesetters	.00	.00	.00	.01	.00	.00	.01	.01	.00
Engravers exc photoengravers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Photoengravers, lithographers	.00	.00	.00	.00	.00	.00	.06	.05	.02
Press, plate printers, apprentices	.00	.00	.00	.00	.00	.00	.23	.25	.20
Transport, public util craft wkrs	.00	.00	.00	.01	.01	.00	.20	.21	.21
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.02	.02	.02
Telephone installers, repairers	.00	.00	.00	.01	.01	.00	.18	.19	.19

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Employment, temporary help			Services to buildings			Other business services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.00	.00	.00	.32	.17	.04	3.82	3.21	2.49
Carpet installers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Crane,derrick,hoist operator	.00	.00	.00	.00	.00	.00	.43	.33	.25
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.32	.35	.16
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Inspectors, lcg and lumber	.00	.00	.00	.00	.00	.00	.08	.05	.01
Inspectors, other	.00	.00	.00	.09	.05	.00	.50	.48	.21
Jewelers and watchmakers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Sign painters and letterers	.00	.00	.00	.00	.00	.00	2.18	1.75	1.60
Stationary engineers	.00	.00	.00	.19	.08	.00	.11	.07	.02
Upholsterers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts workers	.00	.00	.00	.02	.02	.02	.14	.14	.20
Operatives	.00	.00	.00	7.83	8.83	9.89	9.80	9.34	8.47
Operatives,except transport	.00	.00	.00	7.43	8.46	9.52	7.19	7.23	7.16
Semiskilled metalworking	.00	.00	.00	.05	.04	.02	.15	.16	.15
Solderers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	.00	.00	.00	.04	.03	.02	.14	.15	.14
Semiskilled packing, inspecting	.00	.00	.00	.00	.00	.00	1.30	1.16	.83
Packer,wrapper,exc meat,prode	.00	.00	.00	.00	.00	.00	1.30	1.16	.83
Other operatives, exc transport	.00	.00	.00	7.37	8.42	9.51	5.73	5.92	6.18
Clothing ironers and pressers	.00	.00	.00	.02	.01	.00	.00	.00	.00
Cutting operatives, other	.00	.00	.00	.01	.01	.00	.17	.20	.29
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.13	.14	.12
Drillers, earth	.00	.00	.00	.00	.00	.00	.02	.02	.02
Filer,polisher,sander,buffer	.00	.00	.00	.00	.00	.00	.03	.03	.05
Garage wrkr,gas station atten	.00	.00	.00	.02	.01	.00	.18	.14	.17
Laundry,dry cleang oprs,other	.00	.00	.00	.03	.03	.05	.01	.01	.01
Mixing operatives	.00	.00	.00	.01	.01	.00	.04	.04	.06
Oilers,greasers,exc automobiles	.00	.00	.00	.01	.00	.00	.07	.05	.02
Painters, mfg articles	.00	.00	.00	.00	.00	.00	.05	.05	.08
Photographic process workers	.00	.00	.00	.00	.00	.00	4.13	4.16	4.00
Riveters and fasteners	.00	.00	.00	.00	.00	.00	.01	.01	.03
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.06	.05	.08
Furnace tendr,stokr,exc metal	.00	.00	.00	.02	.01	.01	.04	.02	.01
Miscellaneous machine operatives	.00	.00	.00	.04	.03	.00	.00	.00	.00
Other operatives,exc transport	.00	.00	.00	7.23	8.30	9.45	.79	.97	1.24
Transport equipment operatives	.00	.00	.00	.41	.37	.37	2.62	2.10	1.31
Bus drivers	.00	.00	.00	.00	.01	.00	.03	.03	.00
Delivery and route workers	.00	.00	.00	.12	.09	.05	1.28	1.08	.85
Fork lift,tow motor operatives	.00	.00	.00	.02	.01	.00	.14	.19	.26
Parking attendants	.00	.00	.00	.02	.01	.00	.03	.03	.03
Taxicab drivers, chauffeurs	.00	.00	.00	.02	.02	.00	.14	.09	.01
Truck drivers	.00	.00	.00	.22	.23	.31	1.00	.67	.15
Service workers	4.15	3.82	4.06	77.34	76.36	74.28	1.50	1.35	1.12
Cleaning service workers	3.50	3.30	3.68	76.44	75.64	73.56	.77	.76	.73
Lodging qtrs cleaners,exc privt	.56	.29	.28	.49	.30	.54	.02	.01	.02
Bldg interior cleaners, other	1.82	1.93	2.33	62.58	61.67	54.81	.22	.24	.26
Janitors and sextons	1.12	1.08	1.07	13.38	13.68	18.21	.54	.51	.44
Food service workers	.00	.00	.00	.00	.00	.00	.03	.03	.05
Other food serv wkrs,exc privt	.00	.00	.00	.00	.00	.00	.03	.03	.05
Health service workers	.00	.00	.00	.01	.01	.00	.03	.03	.06
Nursing aides and orderlies	.00	.00	.00	.00	.00	.00	.02	.02	.04
Practical nurses	.00	.00	.00	.00	.00	.00	.01	.01	.01
Personal service workers	.29	.22	.21	.58	.46	.62	.27	.20	.14
Attendants, personal serv, other	.00	.00	.00	.17	.15	.17	.04	.04	.04
Baggage porters and bellhops	.00	.00	.00	.02	.02	.21	.00	.00	.00
Child care workers, exc private	.06	.04	.08	.01	.01	.03	.01	.01	.01
Elevator operators	.07	.05	.02	.28	.19	.03	.03	.02	.01
Housekeepers, exc private homes	.16	.12	.12	.10	.10	.19	.19	.14	.08
Protective service workers	.36	.31	.17	.30	.25	.11	.40	.34	.15
Firefighters	.00	.00	.00	.00	.00	.00	.02	.02	.01
Guards	.34	.29	.15	.29	.24	.11	.34	.29	.14
Police and detectives	.02	.02	.02	.02	.01	.00	.05	.03	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Employment, temporary help			Services to buildings			Other business services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	.26	.24	.32	1.17	1.22	1.75	2.84	2.61	2.97
Carpenter helpers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Constr labr,exc carpenter help	.00	.00	.00	.06	.06	.05	.00	.00	.00
Freight and material handlers	.00	.00	.00	.00	.00	.00	.40	.46	.65
Garbage collectors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Gardenrs,groundkeepers,exc farm	.03	.02	.01	.54	.54	.79	.05	.06	.09
Timbercutting, logging workers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Stock handlers	.00	.00	.00	.02	.03	.04	.38	.45	.50
Vehicle washers,equip cleaners	.00	.00	.00	.25	.30	.40	.17	.19	.21
Warehouse labcrers, other	.00	.00	.00	.03	.03	.02	.16	.13	.05
Other laborers	.23	.22	.31	.25	.25	.42	1.67	1.32	1.45

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Automobile services			Automobile repair			Automobile services, exc repair		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.54	1.14	.90	.14	.16	.11	4.29	3.51	2.45
Engineering, science technicians	.01	.01	.02	.01	.02	.03	.01	.01	.01
Chemical technicians	.00	.00	.00	.00	.00	.00	.01	.01	.01
Electrical and electronic	.01	.01	.02	.01	.02	.03	.00	.00	.00
Technicians, except health	.02	.02	.01	.01	.01	.00	.04	.05	.03
Airplane pilots	.00	.00	.00	.00	.00	.00	.01	.01	.01
Radio operators	.01	.01	.01	.00	.00	.00	.03	.03	.02
Computer specialists	.04	.05	.05	.00	.00	.00	.13	.16	.15
Computer programmers	.02	.02	.02	.00	.00	.00	.06	.07	.07
Computer systems analysts	.02	.02	.02	.00	.00	.00	.05	.08	.07
Other computer specialists	.00	.01	.00	.00	.00	.00	.01	.02	.01
Teachers	.94	.56	.39	.01	.01	.02	2.80	1.87	1.12
Adult education	.01	.01	.02	.01	.01	.02	.01	.01	.01
Other teachers	.94	.54	.37	.00	.00	.00	2.79	1.86	1.11
Writers, artists, entertainers	.07	.08	.08	.03	.03	.02	.17	.21	.19
Editors and reporters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Photographers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Public relations specialists	.06	.08	.07	.02	.03	.02	.15	.18	.17
Other professional and technical	.45	.42	.36	.10	.10	.05	1.14	1.21	.95
Accountants	.30	.27	.25	.06	.06	.03	.75	.79	.67
Lawyers	.03	.03	.02	.00	.00	.00	.09	.11	.05
Operations and systems research	.01	.01	.01	.00	.00	.00	.02	.03	.03
Personnel, labor relations wkrs	.10	.09	.07	.03	.03	.02	.23	.24	.18
Other research workers	.01	.01	.01	.00	.00	.00	.03	.03	.02
Vocation, education counselors	.00	.00	.00	.00	.00	.00	.01	.01	.01
Managers, officials, proprietors	9.71	11.44	11.45	6.66	8.90	8.38	15.73	17.62	17.47
Buyers, sales, loan managers	.31	.32	.38	.10	.12	.09	.73	.79	.96
Credit managers	.03	.02	.02	.01	.01	.01	.08	.04	.03
Purchasing agents, buyers, other	.08	.08	.08	.04	.04	.03	.18	.18	.19
Sales manager, exc retail trade	.20	.22	.28	.06	.07	.06	.48	.57	.73
Other managers, officials, proprts	9.40	11.12	11.07	6.56	8.77	8.29	15.00	16.83	16.52
Mgrs, superintendents, building	.01	.01	.01	.00	.00	.00	.02	.02	.04
Office managers, other	.35	.35	.46	.14	.15	.15	.77	.84	1.05
Other managers, administrators	9.05	10.77	10.60	6.42	8.62	8.14	14.22	15.97	15.42
Sales workers	.72	.74	.87	.55	.59	.43	1.05	1.11	1.71
Other sales workers	.71	.74	.87	.55	.59	.43	1.04	1.10	1.71
Clerical workers	9.24	8.25	8.99	3.85	3.22	2.14	19.88	20.47	22.41
Stenographs, typists, secretaries	1.69	1.44	1.52	.79	.68	.40	3.45	3.31	3.70
Legal secretaries	.02	.01	.02	.00	.00	.00	.05	.05	.05
Other secretaries	1.39	1.22	1.31	.73	.62	.38	2.69	2.69	3.13
Stenographers	.02	.01	.00	.00	.00	.00	.05	.02	.01
Typists	.27	.20	.19	.07	.06	.02	.66	.55	.51
Office machine operators	.14	.14	.12	.02	.04	.03	.38	.38	.32
Bookkeeping and billing	.02	.01	.01	.01	.00	.00	.04	.02	.03
Calculating	.00	.00	.00	.00	.00	.00	.01	.01	.01
Computer and peripheral equip	.03	.07	.06	.01	.03	.03	.07	.15	.14
Duplicating	.00	.00	.01	.00	.00	.00	.01	.01	.03
Keypunch	.08	.05	.04	.00	.00	.00	.24	.18	.11

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Automobile services			Automobile repair			Automobile services, exc repair		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	7.41	6.67	7.35	3.04	2.50	1.72	16.05	16.78	18.39
Billing clerks	.08	.08	.06	.04	.05	.05	.15	.17	.08
Bookkeepers	2.51	2.00	1.71	2.23	1.64	1.12	3.06	2.87	2.89
Cashiers	1.23	1.14	1.66	.05	.04	.03	3.58	3.81	4.84
Clerical supervisors, other	.06	.07	.07	.01	.02	.02	.16	.19	.18
Collectors, bill and account	.02	.02	.02	.00	.00	.00	.06	.06	.07
Counter clerks,exc food	1.51	1.40	1.83	.03	.04	.03	4.44	4.68	5.37
Dispatchers,starters,vehicle	.14	.13	.18	.02	.02	.02	.37	.41	.49
Enumerators and interviewers	.00	.00	.01	.00	.00	.00	.01	.01	.02
Estimators,investigators,other	.59	.65	.61	.06	.08	.04	1.65	2.02	1.72
Expeditors,prdction controls	.04	.04	.05	.00	.00	.00	.11	.12	.15
File clerks	.11	.08	.09	.03	.02	.01	.26	.22	.24
Insurance adjusters,examiners	.01	.01	.01	.00	.00	.00	.02	.03	.03
Mail handlers,exc post office	.02	.02	.03	.01	.01	.02	.05	.05	.07
Messengers and office helpers	.03	.03	.01	.04	.03	.00	.03	.03	.02
Payroll,timekeeping clerks	.06	.05	.04	.01	.01	.01	.14	.14	.10
Receptionists	.19	.16	.14	.06	.06	.04	.43	.41	.34
Shipping and receiving clerks	.03	.02	.02	.03	.03	.01	.03	.02	.02
Statistical clerks	.08	.08	.12	.00	.00	.00	.23	.26	.34
Stock clerks and store keepers	.16	.17	.12	.19	.21	.14	.09	.09	.10
Telephone operators	.05	.03	.02	.01	.01	.01	.12	.07	.06
Misc clerical workers	.51	.50	.55	.22	.24	.17	1.07	1.13	1.30
Crafts and kindred workers	55.97	57.29	57.52	78.73	76.58	80.93	11.04	10.48	11.64
Construction crafts workers	.41	.47	.33	.51	.60	.43	.21	.17	.13
Carpenters and apprentices	.03	.03	.01	.03	.03	.01	.04	.03	.01
Electricians and apprentices	.04	.03	.01	.03	.03	.00	.06	.05	.03
Painters and apprentices	.32	.41	.30	.44	.54	.41	.08	.08	.08
Plumbers,pipefitters,aprentices	.01	.01	.01	.01	.01	.00	.03	.02	.02
Blue collar worker supervisors	.68	.65	.40	.57	.56	.26	.89	.86	.66
Metalworkg craft wrkrs,exc mech	.16	.15	.08	.21	.20	.11	.05	.04	.03
Blacksmiths	.01	.01	.00	.01	.01	.00	.00	.00	.00
Machinists and apprentices	.15	.15	.08	.20	.19	.11	.05	.04	.03
Mechanics,repairers,installers	54.15	55.47	56.45	76.64	74.51	79.81	9.73	9.26	10.66
Air cond, heating, refriy mech	.03	.04	.03	.02	.03	.01	.05	.06	.06
Aircraft mechanics	.03	.02	.01	.03	.02	.00	.02	.01	.01
Auto accessories installers	.45	.43	.23	.66	.60	.33	.04	.04	.03
Auto body repairers	15.29	14.37	14.78	22.74	20.10	22.06	.58	.46	.50
Auto mechanics and apprentices	37.83	39.96	40.70	52.69	53.12	56.83	8.50	8.04	9.09
Farm implement mechanics	.02	.02	.03	.01	.01	.01	.03	.04	.05
Heavy equip mech, incl diesel	.35	.46	.55	.32	.45	.43	.41	.50	.78
Household appliance mechanics	.01	.02	.02	.01	.02	.02	.02	.02	.03
Radio, television repairers	.02	.01	.01	.02	.01	.01	.01	.01	.01
Railroad, car shop repairers	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other mechanics and apprentices	.11	.12	.09	.12	.14	.10	.08	.08	.09
Other crafts, kindred workers	.58	.54	.27	.80	.70	.32	.16	.15	.16
Decorators, window dressers	.00	.01	.01	.00	.00	.00	.01	.02	.02
Glaziers	.29	.32	.11	.44	.45	.16	.01	.01	.01
Inspectors, other	.01	.02	.02	.01	.01	.02	.02	.02	.01
Sign painters and letterers	.01	.01	.02	.01	.01	.01	.02	.02	.03
Stationary engineers	.01	.01	.01	.01	.00	.00	.03	.02	.02
Upholsterers	.22	.16	.09	.33	.22	.13	.02	.01	.02
Other crafts workers	.02	.02	.02	.01	.00	.00	.04	.04	.05
Operatives	13.19	12.27	10.70	9.10	9.49	7.36	21.27	19.00	17.26
Operatives,except transport	7.03	7.25	6.04	8.36	8.80	6.93	4.41	3.48	4.30
Semiskilled metalworking	.32	.30	.15	.41	.37	.15	.15	.15	.15
Welders and flamecutters	.32	.30	.15	.41	.37	.15	.15	.15	.15
Semiskilled packing, inspecting	.02	.02	.01	.01	.01	.01	.03	.02	.02
Packer,wrapper,exc meat,prodc	.02	.02	.01	.01	.01	.01	.03	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Automobile services			Automobile repair			Automobile services, exc repair		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	6.69	6.93	5.88	7.93	8.42	6.78	4.23	3.31	4.13
Assemblers	.05	.05	.03	.05	.06	.02	.05	.05	.06
Cutting operatives, other	.00	.01	.01	.01	.01	.01	.00	.00	.00
Filer, polisher, sander, buffer	.03	.04	.02	.05	.05	.04	.00	.00	.00
Garage wrkr, gas station atten	2.74	2.12	2.12	2.30	1.90	1.47	3.61	2.64	3.41
Painters, mfg articles	2.43	2.71	2.34	3.57	3.76	3.41	.19	.17	.23
Photographic process workers	.01	.01	.01	.00	.00	.00	.03	.03	.03
Furnace tendr, stokr, exc metal	.00	.00	.00	.00	.00	.00	.01	.01	.01
Miscellaneous machine operatives	.78	1.11	.74	1.17	1.57	1.12	.00	.00	.00
Other operatives, exc transport	.64	.88	.61	.79	1.07	.72	.35	.41	.39
Transport equipment operatives	6.16	5.02	4.66	.74	.69	.43	16.86	15.53	12.97
Bus drivers	.01	.01	.00	.00	.00	.00	.04	.04	.00
Delivery and route workers	.21	.16	.12	.14	.11	.06	.35	.28	.23
Fork lift, tow motor operatives	.06	.07	.09	.02	.03	.02	.13	.15	.21
Parking attendants	3.64	3.45	3.45	.07	.07	.01	10.70	11.64	10.19
Taxicab drivers, chauffeurs	.63	.33	.16	.06	.04	.00	1.76	1.03	.46
Truck drivers	1.61	1.01	.85	.46	.45	.33	3.88	2.38	1.88
Service workers	.74	.66	.59	.38	.37	.19	1.45	1.36	1.37
Cleaning service workers	.58	.53	.44	.29	.30	.16	1.13	1.09	1.00
Bldg interior cleaners, other	.19	.19	.18	.05	.06	.03	.48	.50	.48
Janitors and sextons	.38	.35	.26	.25	.24	.12	.65	.59	.53
Food service wrkrs	.01	.01	.02	.00	.00	.00	.03	.04	.07
Waiters' assistants	.01	.01	.01	.00	.00	.00	.02	.02	.02
Food counter, fountain workers	.01	.01	.02	.00	.00	.00	.02	.02	.04
Personal service workers	.06	.05	.02	.06	.04	.00	.07	.06	.05
Attendants, personal serv, other	.01	.01	.01	.00	.00	.00	.04	.04	.03
Elevator operators	.01	.01	.00	.00	.00	.00	.03	.02	.01
Hairdressers and cosmetologists	.04	.03	.00	.06	.04	.00	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.00	.00	.00	.01	.01	.01
Protective service workers	.09	.06	.10	.02	.02	.03	.21	.17	.24
Guards	.08	.06	.10	.02	.02	.03	.20	.16	.24
Police and detectives	.01	.00	.00	.00	.00	.00	.02	.01	.01
Laborers, except farm	8.90	8.22	8.98	.60	.70	.46	25.29	26.47	25.69
Carpenter helpers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Constr labr, exc carpenter helpr	.01	.01	.01	.00	.00	.00	.03	.03	.03
Garbage collectors	.01	.01	.01	.00	.00	.00	.02	.02	.04
Gardenrs, groundkeepers, exc farm	.01	.01	.01	.00	.00	.00	.03	.03	.04
Stock handlers	.03	.04	.05	.03	.04	.04	.04	.05	.07
Vehicle washers, equip cleaners	8.67	8.01	8.73	.50	.59	.36	24.81	26.02	25.12
Warehouse laborers, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other laborers	.16	.14	.16	.07	.07	.06	.33	.30	.37

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other repair services			Electrical repair services			Oth repair, except electrical		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.27	1.32	1.48	1.99	2.11	2.51	.79	.99	.87
Engineers, technical	.29	.20	.25	.73	.67	.68	.00	.00	.00
Electrical	.16	.11	.10	.41	.36	.27	.00	.00	.00
Industrial	.01	.01	.03	.03	.04	.08	.00	.00	.00
Mechanical	.06	.04	.05	.16	.14	.13	.00	.00	.00
Other engineers	.05	.04	.08	.13	.12	.21	.00	.00	.00
Life and physical scientists	.01	.01	.01	.01	.01	.00	.01	.01	.02
Biological	.00	.01	.01	.00	.00	.00	.01	.01	.02
Engineering, science technicians	.33	.31	.53	.72	.84	1.26	.08	.09	.10
Drafters	.06	.05	.03	.09	.07	.05	.04	.04	.03
Electrical and electronic	.22	.20	.38	.56	.68	1.02	.00	.00	.00
Industrial engineering	.01	.01	.01	.00	.00	.00	.01	.01	.01
Mechanical engineering	.01	.01	.01	.01	.01	.01	.01	.01	.01
Other engineering, science teca	.04	.05	.10	.06	.08	.19	.02	.03	.05
Medical workers, exc tecnicians	.00	.00	.01	.01	.01	.02	.00	.00	.00
Registered nurses	.00	.00	.01	.01	.01	.02	.00	.00	.00
Technicians, except health	.19	.25	.20	.06	.09	.12	.28	.32	.24
Other technicians except health	.19	.25	.20	.06	.09	.12	.28	.32	.24
Teachers	.03	.03	.05	.04	.05	.07	.02	.03	.04
Adult education	.03	.03	.05	.04	.05	.07	.02	.03	.04
Writers, artists, entertainers	.16	.23	.23	.10	.12	.14	.20	.28	.29
Designers	.06	.07	.06	.06	.07	.07	.05	.06	.05
Painters and sculptors	.08	.13	.13	.00	.00	.00	.13	.19	.21
Other writers, artists, entertain	.02	.03	.04	.03	.04	.07	.02	.03	.03
Other professional and technical	.26	.28	.20	.33	.33	.22	.22	.27	.19
Accountants	.18	.19	.12	.23	.22	.13	.15	.18	.11
Personnel, labor relations wkrs	.08	.09	.08	.10	.11	.09	.07	.09	.08
Managers, officials, proprietors	6.67	8.00	7.29	6.92	7.81	5.91	6.51	8.07	8.10
Buyers, sales, lcan managers	.26	.27	.37	.34	.34	.48	.20	.24	.31
Credit managers	.02	.01	.01	.03	.02	.01	.01	.01	.01
Purchasing agents, buyers, other	.10	.10	.12	.12	.11	.13	.09	.09	.11
Sales manager, exc retail trade	.14	.16	.25	.19	.21	.34	.11	.14	.19
Other managers, officials, proprts	6.42	7.73	6.91	6.58	7.48	5.43	6.31	7.83	7.79
Mgrs, superintendents, building	.04	.06	.06	.00	.00	.00	.07	.09	.10
Office managers, other	.32	.33	.41	.45	.46	.61	.24	.28	.28
Other managers, administrators	6.05	7.33	6.45	6.14	7.02	4.81	5.99	7.46	7.42
Sales workers	1.08	1.08	1.15	1.12	1.10	1.28	1.06	1.07	1.07
Other sales wcrkers	1.08	1.07	1.15	1.11	1.10	1.28	1.05	1.07	1.07
Clerical workers	7.62	6.96	6.85	9.87	8.70	8.00	6.15	6.25	6.17
Stenographrs, typists, secretaries	2.24	2.02	2.00	3.03	2.68	2.47	1.72	1.74	1.71
Other secretaries	1.82	1.66	1.67	2.48	2.26	2.17	1.38	1.42	1.38
Stenographers	.03	.02	.01	.04	.02	.01	.02	.01	.01
Typists	.39	.34	.32	.52	.40	.30	.31	.31	.33
Office machine operators	.06	.05	.05	.07	.04	.03	.05	.05	.07
Bookkeeping and billing	.03	.02	.02	.04	.02	.01	.02	.02	.03
Calculating	.02	.01	.01	.02	.02	.02	.01	.01	.01
Other office machine operators	.01	.01	.01	.00	.00	.00	.01	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other repair services			Electrical repair services			Oth repair, except electrical		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	5.33	4.90	4.80	6.78	5.99	5.50	4.37	4.45	4.39
Billing clerks	.10	.10	.14	.14	.15	.24	.08	.08	.08
Bookkeepers	2.31	1.84	1.36	2.99	2.40	1.22	1.86	1.61	1.45
Cashiers	.11	.13	.13	.11	.11	.08	.11	.14	.16
Clerical supervisors, other	.05	.07	.09	.02	.02	.02	.06	.09	.13
Collectors, bill and account	.02	.03	.04	.01	.01	.01	.02	.04	.06
Counter clerks,exc food	.17	.20	.28	.16	.18	.29	.18	.21	.28
Dispatchers, starters, vehicle	.08	.08	.13	.16	.17	.24	.03	.05	.07
Estimators, investigators, other	.32	.44	.29	.12	.15	.15	.45	.56	.37
Expeditors, production controls	.07	.08	.12	.11	.12	.17	.04	.06	.09
File clerks	.11	.10	.11	.16	.13	.11	.08	.08	.10
Insurance adjusters, examiners	.06	.11	.04	.00	.00	.00	.10	.16	.07
Mail handlers, exc post office	.04	.04	.05	.02	.02	.02	.04	.05	.06
Messengers and office helpers	.03	.03	.02	.03	.03	.02	.04	.04	.02
Payroll, timekeeping clerks	.05	.06	.04	.04	.04	.02	.05	.07	.06
Real estate appraisers	.01	.02	.04	.00	.00	.00	.01	.03	.07
Receptionists	.29	.25	.26	.44	.39	.42	.19	.18	.17
Shipping and receiving clerks	.18	.14	.08	.27	.21	.13	.12	.11	.05
Stock clerks and store keepers	.21	.19	.20	.29	.26	.30	.16	.16	.14
Telephone operators	.12	.06	.02	.18	.10	.03	.08	.04	.01
Misc clerical workers	1.00	.94	1.36	1.53	1.53	2.04	.65	.70	.95
Crafts and kindred workers	61.22	58.33	61.51	75.59	75.72	76.72	51.80	51.16	52.51
Construction crafts workers	1.83	1.72	1.52	2.51	2.35	1.81	1.39	1.46	1.35
Carpenters and apprentices	.30	.35	.21	.09	.09	.07	.44	.45	.30
Brick, stonemasons, apprentices	.01	.01	.01	.00	.00	.00	.02	.02	.01
Bulldozer operators	.02	.03	.05	.00	.00	.00	.03	.04	.07
Cement and concrete finishers	.01	.01	.00	.00	.00	.00	.01	.01	.00
Electricians and apprentices	.97	.73	.68	2.21	2.07	1.52	.15	.17	.18
Excavating, grading mach operatr	.10	.13	.16	.00	.00	.00	.17	.18	.26
Painters and apprentices	.25	.29	.27	.11	.12	.15	.34	.37	.34
Plumbers, pipefitters, apprentices	.14	.15	.13	.09	.07	.06	.18	.19	.17
Structural metal craft workers	.02	.01	.00	.00	.00	.00	.03	.02	.01
Tile setters	.00	.00	.01	.00	.00	.00	.01	.01	.01
Blue collar worker supervisors	.85	.90	.55	.84	.75	.40	.85	.95	.64
Metalworkg craft wrkrs, exc meca	2.61	2.89	2.41	.47	.46	.48	4.01	3.89	3.54
Blacksmiths	1.40	1.44	.96	.00	.00	.00	2.32	2.03	1.53
Boilermakers	.34	.43	.41	.00	.00	.00	.56	.61	.65
Heat treaters, annealers	.00	.01	.01	.00	.00	.00	.01	.01	.01
Forge and hammer operators	.02	.03	.03	.00	.00	.00	.03	.04	.04
Job and die setters, metal	.02	.03	.02	.00	.00	.00	.04	.04	.03
Machinists and apprentices	.52	.66	.81	.40	.40	.44	.60	.76	1.02
Millwrights	.07	.08	.04	.03	.02	.01	.09	.10	.06
Pattern and mcldmakers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Sheetmetal workers, apprentices	.07	.06	.03	.05	.03	.02	.08	.07	.03
Tool and diemakers, apprentices	.17	.17	.09	.00	.00	.00	.28	.23	.15
Mechanics, repairers, installers	43.95	41.63	47.03	71.34	71.77	73.71	25.98	29.19	31.25
Air cond, heating, refrig mecha	4.85	4.90	4.15	9.98	11.86	8.13	1.48	2.02	1.79
Aircraft mechanics	.18	.24	.25	.09	.05	.00	.25	.31	.40
Auto accessories installers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Auto body repairers	.14	.14	.11	.02	.02	.01	.21	.19	.18
Auto mechanics and apprentices	1.28	1.48	1.54	.47	.45	.53	1.81	1.90	2.14
Data processing mach repairers	.67	.94	1.31	.79	1.02	1.63	.59	.91	1.13
Farm implement mechanics	1.58	2.25	2.66	.07	.08	.12	2.57	3.15	4.17
Heavy equip mech, incl diesel	3.88	5.44	6.48	2.11	2.61	3.72	5.04	6.61	8.10
Household appliance mechanics	5.13	4.38	6.11	12.04	13.38	15.30	.60	.67	.68
Loom fixers	.01	.01	.01	.01	.01	.01	.01	.01	.01
Office machine repairers	2.29	1.99	2.14	.56	.41	.66	3.42	2.65	3.02
Radio, television repairers	15.26	10.18	13.34	37.92	34.04	35.58	.41	.32	.18
Railroad, car shop repairers	.04	.05	.07	.03	.02	.03	.04	.06	.10
Other mechanics and apprentices	8.64	9.63	8.84	7.24	7.82	7.97	9.56	10.38	9.35
Transport, public util craft wrkrs	.13	.12	.14	.26	.26	.28	.05	.06	.05
Elec pwr line instaler, repairer	.03	.03	.03	.06	.06	.07	.01	.01	.01
Telephone installers, repairers	.09	.08	.09	.16	.16	.16	.04	.05	.04
Telephone line instalr, splicers	.01	.01	.02	.03	.04	.05	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other repair services			Electrical repair services			Oth repair, except electrical		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	11.86	11.09	9.87	.17	.12	.04	19.52	15.61	15.68
Cabinetmakers	.98	.99	.41	.00	.00	.00	1.63	1.40	.65
Carpet installers	.01	.02	.04	.00	.00	.00	.02	.03	.06
Crane,derrick,hoist operator	.03	.03	.02	.01	.01	.00	.05	.04	.03
Decorators, window dressers	.01	.02	.01	.00	.00	.00	.02	.03	.02
Furniture and wood finishers	1.13	1.35	1.29	.00	.00	.00	1.87	1.91	2.06
Glaziers	.04	.04	.03	.00	.00	.00	.06	.06	.05
Inspectors, other	.04	.05	.02	.01	.01	.01	.06	.06	.03
Jewelers and watchmakers	2.12	2.17	1.61	.06	.04	.01	3.47	3.05	2.55
Opticians,lens grinder,polisher	.01	.01	.00	.00	.00	.00	.02	.02	.01
Piano,organ tuners, repairers	1.47	1.28	1.20	.00	.00	.00	2.44	1.81	1.91
Sign painters and letterers	.02	.02	.00	.00	.00	.00	.03	.02	.01
Stationary engineers	.07	.04	.01	.05	.03	.01	.08	.04	.00
Upholsterers	5.32	4.32	4.58	.02	.01	.01	8.79	6.10	7.28
Other crafts workers	.61	.73	.65	.02	.02	.01	.99	1.03	1.03
Operatives	17.58	19.69	17.34	3.80	3.85	4.67	26.62	26.23	24.83
Operatives,except transport	16.68	18.78	16.50	2.97	3.13	3.93	25.68	25.24	23.92
Semiskilled metalworking	13.22	14.78	12.04	.28	.27	.25	21.71	20.77	19.01
Drill press operatives	.01	.01	.01	.00	.00	.00	.02	.02	.02
Furnace tendrs,smeltrs,pourers	.02	.03	.04	.00	.00	.00	.03	.04	.07
Grinding machine operatives	.82	.77	.51	.01	.01	.01	1.35	1.08	.81
Lathe,milling mach operatives	.08	.08	.07	.00	.00	.00	.13	.12	.12
Metal platers	.02	.04	.04	.00	.00	.00	.04	.05	.06
Other precision mach operators	.03	.03	.04	.00	.00	.00	.04	.04	.06
Punch,stamping press operatives	.02	.03	.04	.00	.00	.00	.03	.04	.07
Solderers	.03	.02	.01	.03	.02	.01	.03	.02	.01
Welders and flamecutters	12.20	13.77	11.27	.24	.23	.23	20.04	19.36	17.80
Semiskilled packing, inspecting	.05	.04	.01	.06	.04	.02	.04	.03	.01
Packer,wrapper,exc meat,prodc	.05	.04	.01	.06	.04	.02	.04	.03	.01
Other operatives, exc transport	3.41	3.97	4.45	2.63	2.82	3.66	3.93	4.44	4.91
Asbestos,insulation workers	.00	.00	.01	.01	.01	.02	.00	.00	.00
Assemblers	.18	.19	.17	.23	.23	.22	.14	.17	.14
Cutting operatives, other	.03	.06	.09	.00	.00	.00	.05	.08	.14
Dressmakers, exc factory	.24	.29	.20	.00	.00	.00	.40	.41	.32
Drillers, earth	.01	.01	.01	.01	.01	.01	.01	.01	.01
Filer,polisher,sander,buffer	.34	.42	.41	.00	.00	.00	.57	.59	.66
Garage wrkr, gas station atten	.04	.03	.03	.03	.02	.02	.04	.04	.04
Mixing operatives	.01	.01	.01	.00	.00	.00	.01	.01	.01
Oilers,greasers,exc automobiles	.01	.01	.01	.01	.00	.00	.02	.02	.01
Painters, mfg articles	.08	.10	.15	.02	.02	.00	.12	.14	.23
Photographic process workers	.03	.03	.01	.02	.02	.01	.04	.04	.02
Riveters and fasteners	.01	.01	.01	.00	.00	.00	.01	.01	.01
Sawyers	.01	.01	.00	.00	.00	.00	.01	.01	.00
Sewers and stitchers	.18	.22	.38	.00	.00	.00	.31	.31	.60
Furnace tendr, stokr, exc metal	.02	.01	.01	.01	.01	.01	.02	.02	.01
Winding operatives, other	.63	.53	.84	1.38	1.46	2.04	.13	.15	.13
Miscellaneous machine operatves	.30	.37	.39	.18	.20	.25	.37	.45	.47
Other operatives,exc transport	1.31	1.68	1.73	.74	.86	1.09	1.69	2.01	2.11
Transport equipment operatives	.90	.91	.85	.83	.72	.74	.94	.99	.91
Delivery and route workers	.36	.32	.29	.45	.37	.35	.30	.30	.25
Fork lift,tow motor operatives	.03	.04	.04	.03	.03	.05	.03	.04	.04
Rail vehicle operators, other	.00	.00	.01	.01	.01	.01	.00	.00	.00
Parking attendants	.01	.02	.01	.00	.00	.00	.02	.03	.02
Taxicab drivers, chauffeurs	.03	.02	.01	.02	.02	.01	.04	.03	.01
Truck drivers	.46	.51	.49	.33	.30	.32	.55	.59	.59
Service workers	1.17	.88	.87	.34	.32	.33	1.72	1.11	1.19
Cleaning service workers	.52	.63	.62	.31	.29	.30	.67	.76	.81
Bldg interior cleaners, other	.11	.15	.14	.05	.05	.05	.15	.18	.19
Janitors and sextons	.41	.48	.48	.26	.24	.25	.51	.58	.62
Food service wrkrs	.01	.01	.01	.00	.00	.00	.01	.01	.01
Bartenders	.01	.01	.01	.00	.00	.00	.01	.01	.01
Health service workers	.01	.01	.00	.00	.00	.00	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other repair services			Electrical repair services			Oth repair, except electrical		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	.57	.17	.23	.01	.01	.02	.93	.24	.35
Attendants, personal serv, other	.02	.02	.02	.00	.00	.00	.03	.03	.03
Baggage porters and bellhops	.01	.01	.07	.00	.00	.00	.01	.01	.11
Barbers	.44	.07	.07	.00	.00	.00	.73	.09	.10
Child care workers, exc private	.07	.04	.05	.00	.00	.00	.12	.06	.08
Elevator operators	.01	.02	.01	.00	.00	.00	.02	.02	.02
Housekeepers, exc private homes	.02	.01	.01	.01	.01	.02	.02	.01	.01
Protective service workers	.07	.07	.02	.02	.02	.01	.10	.09	.03
Guards	.07	.07	.02	.02	.02	.01	.09	.09	.03
Laborers, except farm	3.39	3.75	3.53	.38	.40	.58	5.37	5.13	5.27
Carpenter helpers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Constr labr, exc carpenter helpr	.10	.12	.09	.00	.00	.00	.16	.17	.15
Freight and material handlers	.09	.10	.15	.10	.11	.19	.08	.10	.12
Gardenrs, groundkeepers, exc farm	.07	.09	.12	.04	.05	.06	.09	.11	.16
Stock handlers	.06	.07	.10	.09	.11	.16	.04	.06	.06
Teamsters	.00	.00	.01	.00	.00	.00	.01	.01	.01
Vehicle washers, equip cleaners	.22	.29	.26	.05	.06	.09	.32	.39	.36
Warehouse labcrs, other	.01	.01	.00	.02	.02	.01	.00	.00	.00
Other laborers	2.83	3.04	2.79	.07	.06	.08	4.64	4.27	4.40

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motion pictures, theaters			Misc entertainment			Bowling alleys, billiards		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	31.29	35.08	35.96	19.04	20.01	18.73	2.42	3.15	2.78
Engineers, technical	.34	.31	.39	.01	.02	.03	.00	.00	.00
Electrical	.24	.22	.28	.00	.00	.00	.00	.00	.00
Industrial	.02	.02	.04	.00	.00	.00	.00	.00	.00
Mechanical	.04	.02	.01	.00	.00	.00	.00	.00	.00
Other engineers	.05	.05	.07	.01	.02	.03	.00	.00	.00
Life and physical scientists	.03	.03	.03	.00	.00	.00	.00	.00	.00
Chemists	.03	.03	.03	.00	.00	.00	.00	.00	.00
Engineering, science technicians	.71	.77	.99	.10	.13	.13	.00	.00	.00
Drafters	.06	.06	.09	.01	.01	.01	.00	.00	.00
Electrical and electronic	.51	.55	.65	.07	.09	.08	.00	.00	.00
Industrial engineering	.02	.03	.04	.00	.00	.00	.00	.00	.00
Surveyors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other engineering, science technicians	.12	.14	.21	.01	.01	.01	.00	.00	.00
Medical workers, exc technicians	.02	.02	.01	.09	.15	.30	.00	.00	.00
Dentists	.00	.00	.00	.01	.02	.06	.00	.00	.00
Physicians and osteopaths	.00	.00	.00	.01	.03	.14	.00	.00	.00
Registered nurses	.02	.01	.01	.03	.04	.05	.00	.00	.00
Therapists	.00	.00	.00	.03	.04	.03	.00	.00	.00
Veterinarians	.00	.00	.00	.01	.01	.02	.00	.00	.00
Health technologists, technicians	.03	.04	.03	.01	.01	.01	.00	.00	.00
Dental hygienists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other health technicians	.02	.04	.03	.00	.00	.00	.00	.00	.00
Technicians, except health	.25	.34	.43	.03	.05	.07	.00	.00	.00
Airplane pilots	.01	.02	.04	.01	.02	.04	.00	.00	.00
Radio operators	.01	.01	.01	.01	.01	.01	.00	.00	.00
Other technicians except health	.23	.31	.39	.02	.02	.02	.00	.00	.00
Computer specialists	.12	.13	.17	.01	.02	.02	.00	.00	.00
Computer programmers	.08	.09	.11	.01	.02	.02	.00	.00	.00
Computer systems analysts	.04	.05	.06	.00	.00	.00	.00	.00	.00
Social scientists	.03	.05	.08	.00	.00	.00	.00	.00	.00
Economists	.02	.03	.04	.00	.00	.00	.00	.00	.00
Psychologists	.00	.01	.02	.00	.00	.00	.00	.00	.00
Sociologists	.00	.01	.02	.00	.00	.00	.00	.00	.00
Teachers	.51	.34	.10	5.07	2.72	1.36	.04	.03	.01
Adult education	.01	.02	.02	.06	.07	.03	.00	.00	.00
Preschool and kindergarten	.00	.00	.00	.04	.03	.01	.04	.03	.01
Other teachers	.50	.31	.08	4.97	2.62	1.32	.00	.00	.00
Writers, artists, entertainers	28.01	31.70	32.43	9.86	11.88	10.85	2.00	2.57	2.35
Actors	3.40	4.47	4.46	.05	.06	.03	.00	.00	.00
Athletes and kindred workers	.06	.07	.07	6.92	8.37	7.75	1.45	1.86	1.74
Authors	.23	.29	.40	.01	.02	.06	.00	.00	.00
Dancers	.94	.71	.73	.12	.11	.10	.01	.01	.00
Designers	.34	.42	.52	.02	.03	.05	.00	.00	.00
Editors and reporters	1.89	2.11	2.74	.05	.07	.12	.00	.00	.00
Musicians and composers	16.43	18.10	18.33	.74	.80	.66	.16	.17	.12
Painters and sculptors	.69	.85	.80	.07	.09	.08	.00	.00	.00
Photographers	.91	.93	1.12	.04	.04	.06	.00	.00	.00
Public relations specialists	.51	.64	.71	.35	.50	.44	.33	.46	.41
Radio and tv announcers	.02	.02	.05	.02	.02	.01	.00	.00	.00
Other writers, artists, entertainers	2.60	3.09	2.51	1.48	1.77	1.51	.05	.07	.09

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motion pictures, theaters			Misc entertainment			Bowling alleys, billiards		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	1.25	1.35	1.30	3.85	5.05	5.96	.39	.55	.41
Accountants	.68	.69	.72	.36	.50	.57	.09	.11	.12
Architects	.02	.02	.02	.01	.01	.02	.00	.00	.00
Religious workers, except clergy	.00	.00	.00	.00	.01	.01	.00	.00	.00
Foresters and conservationists	.00	.00	.00	.02	.02	.02	.00	.00	.00
Lawyers	.14	.18	.16	.01	.02	.02	.00	.00	.00
Librarians	.06	.05	.04	.01	.01	.02	.00	.00	.00
Personnel, labor relations wkrs	.17	.19	.19	.15	.17	.12	.07	.08	.07
Other research workers	.07	.05	.08	.00	.00	.00	.00	.00	.00
Recreation workers	.11	.18	.11	3.25	4.26	5.16	.22	.36	.23
Social workers	.00	.00	.00	.04	.05	.03	.00	.00	.00
Vocation, education counselors	.00	.00	.00	.01	.01	.02	.00	.00	.00
Managers, officials, proprietors	15.73	18.86	22.59	12.26	14.26	16.31	18.58	22.53	23.86
Buyers, sales, loan managers	.42	.40	.47	.30	.32	.35	.30	.31	.26
Bank, financial managers	.00	.00	.00	.09	.09	.07	.18	.18	.10
Credit managers	.01	.01	.01	.01	.00	.00	.01	.01	.01
Purchasing agents, buyers, other	.17	.14	.16	.13	.14	.15	.03	.03	.04
Sales manager, exc retail trade	.24	.25	.31	.08	.10	.13	.08	.09	.12
Other managers, officials, proprts	15.31	18.46	22.11	11.95	13.93	15.96	18.28	22.22	23.59
Mgrs, superintendents, building	.03	.03	.04	.15	.21	.28	.07	.09	.12
Office managers, other	.40	.37	.39	.26	.31	.36	.18	.23	.30
Officers, pilots, pursers, snip	.00	.00	.00	.18	.17	.23	.00	.00	.00
Restaurant, cafe, bar, managers	.06	.04	.03	.28	.23	.10	.27	.21	.09
Other managers, administrators	14.83	18.01	21.65	11.08	13.01	15.00	17.76	21.69	23.08
Sales workers	3.20	2.25	1.28	1.21	1.15	.75	.71	.52	.12
Advertising agents, sales worker	.06	.09	.16	.02	.05	.09	.00	.00	.00
Other sales workers	3.14	2.16	1.12	1.19	1.11	.66	.71	.52	.12
Clerical workers	18.64	17.32	16.96	12.27	13.41	14.51	13.19	15.37	16.00
Stenographers, typists, secretaries	4.77	4.41	4.53	2.76	3.11	4.04	1.69	1.93	1.88
Legal secretaries	.08	.07	.10	.00	.00	.00	.00	.00	.00
Other secretaries	4.01	3.81	3.97	2.35	2.75	3.64	1.38	1.62	1.58
Stenographers	.06	.03	.01	.04	.02	.01	.02	.01	.01
Typists	.62	.51	.45	.38	.35	.39	.30	.30	.30
Office machine operators	.39	.36	.31	.14	.15	.12	.00	.00	.00
Bookkeeping and billing	.05	.02	.02	.03	.01	.01	.00	.00	.00
Calculating	.03	.02	.01	.00	.01	.01	.00	.00	.00
Computer and peripheral equip	.07	.14	.15	.02	.05	.04	.00	.00	.00
Duplicating	.03	.03	.03	.01	.01	.01	.00	.00	.00
Keypunch	.17	.13	.09	.04	.03	.01	.00	.00	.00
Other office machine operators	.03	.03	.02	.04	.05	.04	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motion pictures, theaters			Misc entertainment			Bowling alleys, billiards		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	13.47	12.54	12.11	9.38	10.15	10.35	11.50	13.44	14.12
Billing clerks	.10	.10	.16	.02	.03	.05	.00	.00	.00
Bookkeepers	1.72	1.49	1.31	1.94	2.04	2.01	2.02	2.25	1.96
Cashiers	8.64	8.04	7.77	3.87	4.49	4.81	3.49	4.19	4.11
Clerical supervisors, other	.10	.11	.11	.05	.07	.08	.02	.02	.02
Collectors, bill and account	.01	.00	.00	.02	.02	.01	.02	.01	.00
Counter clerks, exc food	.27	.28	.35	1.22	1.11	1.03	4.40	5.20	5.96
Dispatchers, starters, vehicle	.02	.03	.04	.03	.03	.05	.01	.01	.01
Estimators, investigators, other	.10	.11	.09	.06	.08	.07	.00	.00	.00
Expeditors, production controirs	.29	.29	.35	.00	.00	.00	.00	.00	.00
File clerks	.16	.13	.15	.07	.07	.11	.07	.06	.10
Library attendants, assistants	.05	.05	.02	.00	.00	.00	.00	.00	.00
Mail handlers, exc post office	.24	.35	.25	.05	.05	.04	.03	.03	.03
Messengers and office helpers	.11	.10	.10	.09	.09	.16	.08	.09	.86
Payroll, timekeeping clerks	.17	.19	.23	.12	.15	.13	.08	.10	.09
Receptionists	.28	.23	.17	.62	.64	.48	.21	.21	.18
Shipping and receiving clerks	.27	.23	.28	.03	.04	.05	.01	.01	.01
Statistical clerks	.09	.09	.07	.16	.20	.21	.17	.21	.18
Stock clerks and store keepers	.12	.09	.08	.12	.11	.09	.04	.02	.01
Telephone operators	.21	.14	.15	.23	.19	.20	.02	.01	.01
Weighers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Misc clerical workers	.55	.51	.43	.67	.72	.78	.87	1.03	.62
Crafts and kindred workers	8.81	7.34	5.99	5.78	5.99	6.33	10.67	11.85	12.19
Construction crafts workers	1.23	1.16	1.16	1.10	1.29	1.65	.20	.15	.05
Carpenters and apprentices	.56	.62	.71	.44	.56	.71	.11	.07	.01
Brick, stonemasons, apprentices	.00	.00	.00	.01	.01	.01	.00	.00	.00
Bulldozer operators	.00	.00	.00	.11	.13	.21	.00	.00	.00
Electricians and apprentices	.47	.37	.31	.17	.22	.32	.04	.03	.01
Excavating, grading mach operatr	.00	.00	.00	.03	.03	.03	.00	.00	.00
Floor layers, exc tile setters	.00	.00	.00	.01	.00	.00	.02	.01	.01
Painters and apprentices	.17	.14	.10	.27	.27	.22	.03	.03	.02
Plasterers and apprentices	.01	.01	.00	.01	.01	.03	.00	.00	.00
Plumbers, pipefitters, aprentices	.03	.03	.04	.06	.07	.12	.01	.01	.01
Blue collar worker supervisors	.40	.43	.55	.48	.58	.82	.20	.24	.25
Metalworkg craft wrkrs, exc mech	.13	.15	.26	.10	.11	.13	.14	.16	.18
Blacksmiths	.00	.00	.00	.02	.02	.01	.00	.00	.00
Machinists and apprentices	.11	.12	.20	.07	.09	.12	.14	.16	.18
Pattern and mcldmakers	.01	.02	.03	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.01	.02	.03	.00	.00	.00	.00	.00	.00
Mechanics, repairers, installers	.49	.51	.58	3.74	3.59	3.20	10.02	11.20	11.58
Air cond, heating, refrig meca	.04	.05	.05	.03	.06	.10	.02	.03	.05
Aircraft mechanics	.00	.00	.00	.02	.03	.08	.00	.00	.00
Auto body repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Auto mechanics and apprentices	.05	.05	.04	.16	.16	.14	.03	.02	.04
Heavy equip mech, incl diesel	.14	.16	.28	.65	.82	1.04	1.02	1.45	2.04
Household appliance mechanics	.01	.01	.01	.01	.01	.02	.01	.01	.01
Radio, television repairers	.09	.09	.11	.02	.03	.05	.01	.01	.01
Railroad, car shop repairers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other mechanics and apprentices	.16	.15	.09	2.84	2.46	1.75	8.95	9.68	9.43
Printing trade crafts workers	.06	.06	.10	.04	.07	.13	.01	.00	.00
Bookbinders	.00	.00	.00	.01	.01	.02	.00	.00	.00
Compositors and typesetters	.03	.03	.05	.02	.03	.04	.01	.00	.00
Engravers exc photoengravers	.00	.00	.00	.00	.01	.03	.00	.00	.00
Photoengravers, lithographers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Press, plate printers, aprentices	.02	.03	.05	.01	.02	.04	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motion pictures, theaters			Misc entertainment			Bowling alleys, billiards		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	6.50	5.03	3.34	.31	.35	.40	.10	.10	.13
Bakers	.00	.00	.00	.10	.12	.14	.01	.00	.00
Cabinetmakers	.02	.02	.03	.01	.01	.02	.01	.00	.00
Crane,derrick,hoist operator	.02	.02	.03	.01	.01	.02	.00	.00	.00
Decorators, window dressers	.06	.08	.06	.02	.04	.09	.00	.00	.00
Inspectors, other	.02	.02	.01	.01	.01	.02	.00	.00	.00
Motion picture projectionists	6.19	4.74	3.12	.02	.01	.00	.00	.00	.00
Piano,organ tuners, repairers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Sign painters and letterers	.03	.02	.00	.01	.01	.00	.01	.01	.00
Stationary engineers	.09	.06	.02	.08	.08	.05	.01	.01	.01
Tailors	.01	.01	.01	.01	.01	.01	.00	.00	.00
Upholsterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other crafts workers	.04	.04	.04	.05	.04	.04	.05	.07	.12
Operatives	3.36	3.20	3.22	1.20	1.33	1.35	.37	.45	.34
Operatives,except transport	2.73	2.61	2.49	.46	.52	.60	.21	.26	.26
Semiskilled metalworking	.03	.03	.05	.04	.06	.10	.01	.02	.02
Welders and flamecutters	.03	.03	.05	.04	.06	.10	.01	.02	.02
Semiskilled packing, inspecting	.05	.05	.09	.01	.01	.02	.00	.00	.00
Packer,wrapper,exc meat,prodce	.05	.05	.09	.01	.01	.02	.00	.00	.00
Other operatives, exc transport	2.66	2.53	2.35	.41	.45	.48	.19	.24	.24
Clothing ironers and pressers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Cutting operatives, other	.00	.00	.00	.01	.01	.02	.00	.00	.00
Dressmakers, exc factory	.08	.07	.02	.00	.00	.00	.00	.00	.00
Garage wrkr,gas station atten	.00	.00	.00	.02	.02	.02	.01	.01	.01
Laundry,dry cleang oprs,other	.01	.01	.01	.04	.05	.03	.00	.00	.00
Meat cutters,butchers,exc mfy	.00	.00	.00	.03	.03	.01	.00	.00	.00
Photographic process workers	2.33	2.23	2.12	.01	.01	.02	.00	.00	.00
Sailors and deckhands	.00	.00	.00	.06	.07	.14	.00	.00	.00
Furnace tendr,stkpr,exc metal	.02	.01	.01	.03	.02	.03	.00	.00	.00
Other operatives,exc transport	.20	.21	.19	.20	.23	.20	.19	.23	.23
Transport equipment operatives	.62	.59	.73	.74	.81	.76	.16	.20	.08
Boat operators	.00	.00	.00	.09	.10	.11	.00	.00	.00
Bus drivers	.02	.03	.02	.07	.11	.05	.10	.13	.02
Delivery and route workers	.12	.11	.17	.08	.10	.16	.01	.01	.01
Fork lift,tow motor operatives	.00	.00	.00	.02	.03	.05	.01	.02	.03
Parking attendants	.07	.07	.06	.27	.28	.25	.03	.03	.01
Taxicab drivers, chauffeurs	.13	.12	.09	.05	.05	.04	.00	.00	.00
Truck drivers	.28	.26	.39	.16	.15	.11	.02	.02	.01
Service workers	16.83	14.00	12.01	38.28	31.76	28.52	53.21	45.27	43.91
Cleaning service workers	3.73	3.06	2.48	6.02	5.62	4.79	9.11	9.21	8.58
Lodging qtrs cleaners,exc privt	.05	.02	.01	.17	.08	.04	.14	.05	.01
Bldg interior cleaners, other	1.05	.85	.68	1.72	1.65	1.03	2.57	2.63	2.31
Janitors and sextons	2.62	2.20	1.79	4.13	3.89	3.72	6.40	6.52	6.26
Food service wrkrs	2.16	1.77	2.27	16.42	13.18	12.57	18.96	15.44	15.55
Bartenders	.08	.06	.09	2.20	1.86	1.30	2.72	2.35	1.80
Waiters' assistants	.04	.03	.02	1.09	1.29	1.85	.31	.30	.21
Cooks,exc private households	.47	.39	.54	2.93	2.58	2.44	3.03	2.69	2.64
Dishwashers	.02	.02	.02	.89	.61	.47	.45	.30	.29
Food counter,fountain workers	.71	.78	1.15	.83	.88	1.20	1.99	2.50	3.90
Waiters	.75	.43	.41	7.30	4.92	4.42	10.07	7.00	6.54
Other food serv wrks,exc privt	.10	.06	.05	1.19	1.04	.90	.38	.29	.18
Health service workers	.01	.02	.03	.07	.06	.09	.03	.03	.05
Dental assistants	.00	.00	.00	.03	.02	.00	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.01	.01	.02	.00	.00	.00
Nursing aides and orderlies	.01	.02	.03	.03	.03	.07	.02	.02	.03
Practical nurses	.00	.00	.00	.01	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Motion pictures, theaters			Misc entertainment			Bowling alleys, billiards		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	10.52	8.74	6.66	14.67	11.80	10.45	24.97	20.45	19.62
Flight attendants	.02	.02	.05	.03	.05	.08	.00	.00	.00
Attendants, recreation, amusement	3.20	2.42	1.82	10.15	8.75	7.93	16.45	15.16	14.03
Attendants, personal serv, other	.63	.39	.14	1.33	1.14	.74	.15	.13	.08
Baggage porters and bellhops	.00	.00	.00	.02	.02	.11	.01	.01	.11
Barbers	.06	.01	.02	.18	.03	.03	.12	.02	.00
Bootblacks	.00	.00	.00	.03	.01	.02	.03	.02	.03
Child care workers, exc private	.03	.02	.04	1.99	.87	.75	8.12	5.05	5.34
Elevator operators	.04	.03	.01	.02	.02	.02	.01	.01	.01
Hairdressers and cosmetologists	.28	.30	.40	.07	.10	.09	.01	.00	.00
Housekeepers, exc private homes	.10	.06	.03	.57	.46	.26	.08	.05	.02
Ushers, recreation and amusement	6.15	5.50	4.15	.27	.35	.44	.00	.00	.00
Protective service workers	.41	.41	.57	1.10	1.10	.62	.14	.14	.12
Firefighters	.01	.01	.01	.01	.01	.01	.00	.00	.00
Guards	.39	.39	.56	1.01	1.03	.59	.13	.14	.12
Police and detectives	.01	.01	.00	.08	.06	.01	.01	.00	.00
Laborers, except farm	2.15	1.97	2.01	9.97	12.09	13.49	.86	.85	.80
Animal caretakers, exc farm	.03	.03	.04	1.09	1.55	1.50	.00	.00	.00
Carpenter helpers	.02	.02	.05	.04	.05	.08	.00	.00	.00
Constr labr, exc carpenter help	.05	.04	.03	.10	.09	.05	.02	.02	.01
Freight and material handlers	1.64	1.47	1.43	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.22	.24	.28	7.55	9.25	10.85	.18	.19	.21
Stock handlers	.05	.05	.05	.05	.06	.03	.05	.06	.05
Teamsters	.01	.01	.03	.01	.01	.02	.00	.00	.00
Vehicle washers, equip cleaners	.00	.00	.00	.05	.04	.01	.07	.07	.02
Warehouse labcrers, other	.02	.02	.05	.02	.03	.06	.00	.00	.00
Other laborers	.12	.09	.06	1.04	1.01	.89	.53	.52	.52

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other entertainmt			Medical and othr health services			Offices of physicians		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	23.64	22.93	20.64	33.21	35.08	30.78	48.68	45.74	42.56
Engineers,technical	.01	.02	.04	.10	.10	.12	.00	.00	.00
Civil	.00	.00	.00	.03	.02	.02	.00	.00	.00
Electrical	.00	.00	.00	.01	.02	.02	.00	.00	.00
Industrial	.00	.00	.00	.02	.02	.03	.00	.00	.00
Mechanical	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other engineers	.01	.02	.04	.03	.03	.02	.00	.00	.00
Life and physical scientists	.00	.00	.00	.35	.53	.53	.06	.08	.06
Biological	.00	.00	.00	.21	.37	.33	.04	.06	.04
Chemists	.00	.00	.00	.12	.15	.18	.02	.02	.02
Physicists and astronomers	.00	.00	.00	.02	.02	.02	.00	.00	.00
Mathematical specialists	.00	.00	.00	.02	.03	.04	.01	.01	.02
Actuaries	.00	.00	.00	.00	.00	.00	.01	.01	.02
Statisticians	.00	.00	.00	.02	.03	.04	.00	.00	.00
Engineering,science technicians'	.13	.15	.15	.13	.16	.18	.02	.02	.02
Agricultural,biolgycl,exc health	.00	.00	.00	.02	.03	.02	.01	.01	.01
Chemical technicians	.00	.00	.00	.02	.03	.03	.01	.01	.01
Drafters	.02	.02	.01	.01	.01	.01	.00	.00	.00
Electrical and electronic	.09	.10	.09	.02	.02	.03	.00	.00	.00
Surveyors	.01	.02	.03	.00	.00	.00	.00	.00	.00
Other engineering,science tech	.02	.02	.02	.07	.08	.08	.00	.00	.00
Medical workers,exc technicians	.12	.17	.33	24.87	24.09	21.02	44.07	39.72	36.46
Chiropractors	.00	.00	.00	.35	.27	.19	.04	.00	.00
Dentists	.01	.02	.07	1.99	1.75	1.39	.14	.06	.05
Dietitians	.00	.00	.00	.52	.42	.37	.03	.02	.01
Optometrists	.00	.00	.00	.36	.27	.21	.10	.08	.09
Pharmacists	.00	.00	.00	.28	.26	.26	.12	.07	.14
Physicians and osteopaths	.02	.04	.16	5.96	5.34	4.31	32.72	29.18	27.39
Podiatrists	.00	.00	.00	.15	.12	.11	.07	.04	.02
Registered nurses	.04	.04	.05	13.92	13.75	12.37	10.45	9.74	8.20
Therapists	.03	.05	.04	1.31	1.79	1.71	.39	.52	.55
Veterinarians	.01	.01	.02	.02	.02	.01	.00	.00	.00
Other medical and health teca	.00	.01	.00	.02	.10	.09	.01	.01	.00
Health technologists,technicians	.01	.02	.02	5.28	6.85	5.58	3.66	4.92	4.60
Clinical lab technologists,tech	.00	.00	.00	2.66	3.11	2.28	1.57	1.92	2.03
Dental hygienists	.01	.01	.02	.33	.50	.57	.03	.04	.05
Health record technologist,tech	.00	.00	.00	.25	.23	.18	.03	.02	.02
Radiologic technologists,tech	.00	.00	.00	1.11	1.53	1.27	1.64	2.21	1.87
Therapy assistants	.00	.00	.00	.07	.10	.09	.01	.02	.08
Other health technicians	.00	.00	.00	.87	1.38	1.19	.39	.71	.56
Technicians,except health	.04	.06	.08	.04	.07	.08	.20	.36	.52
Airplane pilots	.01	.02	.05	.00	.00	.00	.00	.00	.00
Radio operators	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.02	.03	.03	.04	.07	.08	.20	.36	.52
Computer specialists	.02	.02	.02	.08	.12	.15	.00	.00	.00
Computer programers	.01	.02	.02	.05	.07	.08	.00	.00	.00
Computer systems analysts	.00	.00	.00	.02	.04	.05	.00	.00	.00
Other computer specialists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Social scientists	.00	.00	.00	.30	.79	.84	.20	.26	.48
Psychologists	.00	.00	.00	.28	.77	.82	.20	.26	.48
Teachers	6.46	3.18	1.52	.40	.29	.18	.00	.00	.00
Adult education	.07	.08	.03	.02	.04	.03	.00	.00	.00
Preschool and kindergarten	.04	.02	.01	.01	.01	.03	.00	.00	.00
Other teachers	6.34	3.08	1.47	.37	.24	.12	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other entertainmt			Medical and othr health services			Offices of physicians		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers, artists, entertainers	12.04	13.49	11.86	.15	.19	.18	.03	.01	.00
Actors	.06	.07	.03	.01	.01	.00	.00	.00	.00
Athletes and kindred workers	8.43	9.50	8.46	.01	.01	.01	.00	.00	.00
Authors	.01	.02	.06	.00	.00	.00	.00	.00	.00
Dancers	.15	.12	.11	.00	.00	.00	.00	.00	.00
Designers	.03	.04	.05	.00	.00	.00	.00	.00	.00
Editors and reporters	.07	.09	.13	.01	.02	.02	.00	.00	.00
Musicians and composers	.90	.90	.73	.00	.00	.00	.00	.00	.00
Painters and sculptors	.09	.11	.08	.01	.01	.02	.00	.00	.00
Photographers	.05	.05	.06	.03	.02	.02	.00	.00	.00
Public relations specialists	.36	.51	.45	.05	.09	.10	.00	.00	.00
Radio and tv announcers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Other writers, artists, entertain	1.87	2.07	1.68	.02	.02	.01	.03	.01	.00
Other professional and technical	4.81	5.82	6.63	1.50	1.88	1.89	.42	.37	.40
Accountants	.43	.57	.62	.26	.31	.36	.11	.13	.17
Architects	.01	.01	.02	.00	.00	.01	.00	.00	.00
Clergy	.00	.00	.00	.06	.05	.06	.00	.00	.00
Religious workers, except clergy	.01	.01	.02	.07	.06	.15	.00	.00	.00
Foresters and conservationists	.03	.02	.02	.01	.00	.00	.01	.00	.00
Lawyers	.01	.03	.02	.07	.07	.05	.06	.04	.05
Librarians	.01	.01	.02	.02	.03	.03	.00	.00	.00
Operations and systems research	.00	.00	.00	.01	.02	.02	.00	.00	.00
Personnel, labor relations wkrs	.17	.19	.12	.19	.20	.14	.11	.06	.07
Other research workers	.00	.00	.00	.13	.13	.11	.05	.05	.05
Recreation workers	4.09	4.93	5.75	.10	.17	.20	.00	.00	.00
Social workers	.05	.05	.03	.53	.75	.71	.09	.07	.06
Vocation, education counselors	.01	.01	.02	.05	.08	.07	.00	.00	.00
Managers, officials, proprietors	10.51	12.82	15.41	2.90	3.67	3.56	1.03	1.16	1.25
Buyers, sales, loan managers	.31	.33	.36	.27	.26	.37	.00	.00	.00
Bank, financial managers	.06	.07	.07	.07	.08	.09	.00	.00	.00
Credit managers	.01	.00	.00	.04	.03	.04	.00	.00	.00
Purchasing agents, buyers, other	.16	.16	.16	.16	.15	.22	.00	.00	.00
Sales manager, exc retail trade	.08	.10	.13	.00	.01	.01	.00	.00	.00
Administrators, public inspectors	.00	.00	.00	2.16	2.75	2.58	.00	.00	.00
Health administrators	.00	.00	.00	2.16	2.75	2.58	.00	.00	.00
Other managers, officials, proprt	10.20	12.50	15.05	.47	.66	.62	1.03	1.16	1.25
Mgrs, superintendents, building	.18	.24	.30	.02	.02	.03	.01	.01	.01
Office managers, other	.28	.32	.36	.25	.32	.38	.82	.95	1.11
Officers, pilots, pursers, ship	.23	.20	.25	.00	.00	.00	.00	.00	.00
Restaurant, cafe, bar, managers	.28	.23	.11	.02	.01	.01	.00	.00	.00
Other managers, administrators	9.23	11.50	14.03	.18	.30	.20	.19	.20	.14
Sales workers	1.35	1.26	.83	.06	.08	.10	.00	.00	.00
Advertising agents, sales worker	.03	.05	.10	.00	.00	.00	.00	.00	.00
Other sales workers	1.32	1.21	.73	.06	.08	.10	.00	.00	.00
Clerical workers	12.02	13.07	14.33	17.45	17.90	19.80	35.64	35.82	36.01
Stenographers, typists, secretaries	3.05	3.32	4.29	6.76	6.72	8.23	16.89	16.15	17.74
Legal secretaries	.00	.00	.00	.04	.05	.07	.15	.17	.28
Medical secretaries	.00	.00	.00	1.58	1.17	1.57	6.94	5.32	5.99
Other secretaries	2.61	2.94	3.88	3.73	4.27	5.30	8.61	9.59	10.58
Stenographers	.04	.02	.01	.15	.09	.03	.10	.05	.01
Typists	.40	.36	.40	1.26	1.15	1.25	1.09	1.02	.89
Office machine operators	.17	.18	.13	.32	.35	.32	.06	.04	.06
Bookkeeping and billing	.03	.02	.01	.07	.04	.04	.05	.03	.05
Calculating	.01	.01	.02	.00	.00	.00	.00	.00	.00
Computer and peripheral equip	.02	.05	.04	.07	.16	.17	.00	.00	.00
Duplicating	.01	.01	.01	.01	.01	.01	.00	.00	.00
Keypunch	.05	.04	.01	.14	.11	.07	.00	.00	.00
Other office machine operators	.05	.06	.04	.03	.03	.02	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other entertainmt			Medical and othr health services			Offices of physicians		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	8.79	9.58	9.91	10.37	10.84	11.25	18.69	19.63	18.21
Billing clerks	.03	.04	.06	.18	.22	.33	.17	.22	.32
Bookkeepers	1.91	2.01	2.02	1.38	1.47	1.51	3.47	3.53	3.32
Cashiers	3.98	4.54	4.89	.30	.32	.46	.05	.06	.08
Clerical assistant,soc welfare	.00	.00	.00	.00	.02	.01	.00	.00	.00
Clerical supervisors, other	.06	.08	.08	.18	.20	.23	.08	.10	.11
Collectors, bill and account	.02	.02	.01	.02	.03	.04	.02	.02	.03
Counter clerks,exc food	.34	.40	.45	.06	.07	.11	.00	.00	.00
Dispatchers,starters,vehicle	.03	.04	.06	.01	.01	.02	.00	.00	.00
Estimators,investigators,other	.08	.10	.08	.12	.15	.14	.11	.14	.15
File clerks	.07	.07	.11	.36	.31	.29	.48	.44	.36
Insurance adjusters,examiners	.00	.00	.00	.01	.02	.01	.01	.01	.02
Library attendants, assistants	.00	.00	.00	.05	.05	.05	.00	.00	.00
Mail handlers,exc post office	.05	.05	.04	.09	.10	.11	.09	.10	.11
Messengers and office helpers	.09	.09	.07	.09	.11	.12	.02	.02	.01
Payroll,timekeeping clerks	.13	.16	.13	.13	.16	.23	.01	.01	.01
Receptionists	.73	.71	.51	3.73	4.13	3.49	12.40	13.06	11.46
Shipping and receiving clerks	.04	.05	.06	.05	.06	.09	.00	.00	.00
Statistical clerks	.16	.20	.21	.35	.40	.47	.15	.18	.20
Stock clerks and store keepers	.15	.13	.10	.36	.34	.44	.02	.02	.04
Telephone operators	.28	.22	.22	.53	.38	.46	.10	.07	.03
Weighers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Misc clerical workers	.61	.67	.80	2.36	2.31	2.64	1.53	1.66	1.97
Crafts and kindred workers	4.43	4.98	5.63	2.37	2.51	3.10	.22	.18	.19
Construction crafts workers	1.35	1.49	1.84	.74	.73	.97	.04	.02	.02
Carpenters and apprentices	.53	.64	.79	.21	.22	.26	.02	.01	.01
Brick,stonemasons, apprentices	.02	.02	.01	.02	.01	.01	.00	.00	.00
Bulldozer operators	.15	.15	.24	.00	.00	.00	.00	.00	.00
Electricians and apprentices	.20	.25	.36	.15	.15	.21	.00	.00	.00
Excavating,grading machn operatr	.04	.03	.04	.00	.00	.00	.00	.00	.00
Painters and apprentices	.33	.31	.25	.22	.22	.32	.02	.01	.02
Plasterers and apprentices	.01	.01	.03	.01	.01	.02	.00	.00	.00
Plumbers,pipefitters,aprentices	.07	.08	.13	.11	.11	.15	.00	.00	.00
Blue collar worker supervisors	.56	.64	.89	.17	.20	.28	.00	.00	.00
Metalworkg craft wrkrs,exc mecn	.09	.10	.13	.04	.04	.10	.00	.00	.00
Blacksmiths	.03	.02	.01	.00	.00	.00	.00	.00	.00
Boilermakers	.00	.00	.00	.01	.02	.03	.00	.00	.00
Machinists and apprentices	.06	.07	.12	.01	.02	.06	.00	.00	.00
Mechanics,repairers,installers	2.00	2.27	2.20	.29	.36	.59	.00	.00	.00
Air cond, heating, refrig mech	.04	.06	.11	.06	.09	.13	.00	.00	.00
Aircraft mechanics	.02	.04	.08	.00	.00	.00	.00	.00	.00
Auto body repairers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.19	.18	.15	.03	.03	.07	.00	.00	.00
Heavy equip mech, incl diesel	.55	.71	.92	.14	.17	.30	.00	.00	.00
Household appliance mechanics	.01	.01	.02	.01	.01	.01	.00	.00	.00
Radio, television repairers	.03	.03	.05	.01	.01	.02	.00	.00	.00
Railroad, car shop repairers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other mechanics and apprentices	1.15	1.21	.84	.04	.05	.06	.00	.00	.00
Printing trade crafts workers	.05	.08	.15	.03	.05	.09	.00	.00	.00
Bookbinders	.01	.01	.03	.00	.00	.00	.00	.00	.00
Compositors and typesetters	.02	.03	.04	.02	.03	.05	.00	.00	.00
Engravers exc photoengravers	.01	.01	.03	.00	.00	.00	.00	.00	.00
Press,plate printers,aprentices	.02	.03	.05	.01	.02	.04	.00	.00	.00
Transport,public util craft wrks	.01	.01	.00	.01	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other entertainmt			Medical and otr health services			Offices of physicians		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.37	.39	.43	1.10	1.13	1.07	.17	.15	.17
Bakers	.12	.14	.16	.07	.06	.07	.00	.00	.00
Cabinetmakers	.01	.01	.03	.01	.01	.01	.01	.00	.01
Crane,derrick,hoist operator	.01	.01	.02	.00	.00	.00	.00	.00	.00
Decorators, window dressers	.02	.05	.11	.00	.01	.01	.00	.00	.00
Dental laboratory technicians	.00	.00	.00	.58	.63	.58	.04	.03	.09
Inspectors, other	.01	.02	.02	.11	.12	.10	.00	.00	.00
Motion picture projectionists	.02	.02	.00	.00	.00	.00	.00	.00	.00
Opticians,lens grinder,polisher	.00	.00	.00	.04	.07	.07	.13	.12	.07
Sign painters and letterers	.01	.01	.00	.00	.00	.00	.00	.00	.00
Stationary engineers	.10	.09	.06	.26	.21	.21	.00	.00	.00
Tailors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other crafts workers	.04	.04	.03	.01	.01	.01	.00	.00	.00
Operatives	1.43	1.48	1.47	1.88	1.88	2.75	.14	.15	.14
Operatives,except transport	.53	.56	.64	1.56	1.54	2.48	.09	.10	.11
Semiskilled metalworking	.05	.06	.11	.01	.01	.01	.00	.00	.00
Welders and flamecutters	.05	.06	.11	.01	.01	.01	.00	.00	.00
Semiskilled packing, inspecting	.02	.02	.02	.02	.03	.02	.00	.00	.00
Packer,wrapper,exc meat,prodce	.02	.02	.02	.02	.03	.02	.00	.00	.00
Other operatives, exc transport	.47	.48	.51	1.53	1.50	2.45	.09	.10	.11
Clothing ironers and pressers	.01	.01	.02	.13	.12	.21	.00	.00	.00
Cutting operatives, other	.01	.01	.02	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.00	.00	.00	.05	.05	.05	.00	.00	.00
Garage wrkr,gas station atten	.02	.02	.02	.01	.01	.01	.00	.00	.00
Laundry,dry cleany oprs,other	.06	.05	.04	.86	.85	1.61	.01	.01	.01
Meat cutters,butchers,exc mfy	.04	.03	.01	.03	.02	.01	.00	.00	.00
Photographic process workers	.01	.01	.02	.04	.05	.06	.03	.03	.02
Sailors and deckhands	.08	.09	.15	.00	.00	.00	.00	.00	.00
Sewers and stitchers	.00	.00	.00	.09	.09	.17	.00	.00	.00
Furnace tendr,stor,exc metal	.04	.03	.04	.16	.10	.09	.00	.00	.00
Miscellaneous machine operatives	.00	.00	.00	.05	.07	.09	.00	.00	.00
Other operatives,exc transport	.20	.23	.20	.11	.14	.15	.05	.06	.09
Transport equipment operatives	.90	.92	.84	.32	.35	.27	.05	.05	.03
Boat operators	.12	.12	.12	.00	.00	.00	.00	.00	.00
Bus drivers	.06	.11	.05	.01	.02	.01	.00	.00	.00
Delivery and route workers	.10	.11	.17	.06	.09	.07	.01	.01	.01
Fork lift,tow motor operatives	.02	.03	.05	.00	.00	.00	.00	.00	.00
Parking attendants	.34	.32	.28	.01	.01	.00	.01	.01	.01
Taxicab drivers, chauffeurs	.06	.06	.04	.15	.14	.09	.03	.02	.01
Truck drivers	.20	.17	.13	.08	.09	.10	.00	.00	.00
Service workers	34.15	29.42	26.68	41.47	38.19	39.08	14.08	16.83	19.69
Cleaning service workers	5.17	5.00	4.34	5.06	4.69	5.09	3.16	3.23	3.39
Lodging qtrs cleaners,exc privt	.18	.09	.04	.58	.28	.36	.23	.13	.14
Bldg interior cleaners, other	1.49	1.48	.88	2.78	2.78	2.83	1.84	2.01	2.12
Janitors and sextons	3.50	3.44	3.42	1.69	1.63	1.90	1.10	1.09	1.14
Food service workers	15.72	12.79	12.22	4.90	3.62	4.33	.00	.00	.00
Bartenders	2.06	1.78	1.24	.00	.00	.00	.00	.00	.00
Waiters' assistants	1.30	1.46	2.04	.03	.03	.07	.00	.00	.00
Cooks,exc private households	2.90	2.56	2.42	1.74	1.28	1.16	.00	.00	.00
Dishwashers	1.01	.66	.49	.44	.31	.75	.00	.00	.00
Food counter,fountain workers	.51	.60	.87	.22	.20	.19	.00	.00	.00
Waiters	6.54	4.56	4.17	.34	.16	.06	.00	.00	.00
Other food serv wkrs,exc privt	1.41	1.17	.99	2.13	1.64	2.10	.00	.00	.00
Health service workers	.08	.07	.10	29.57	28.28	27.62	10.75	13.47	16.14
Dental assistants	.03	.02	.00	2.11	2.21	2.04	.33	.12	.10
Health aides, except nursing	.01	.01	.02	2.73	3.53	4.42	6.96	9.47	11.44
Health trainees	.00	.00	.00	.41	.20	.09	.00	.00	.00
Lay midwives	.00	.00	.00	.02	.01	.01	.00	.00	.00
Nursing aides and orderlies	.03	.03	.07	17.25	15.03	13.72	.87	.80	.90
Practical nurses	.00	.00	.00	7.06	7.29	7.33	2.58	3.09	3.70

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Other entertainmt			Medical and otr health services			Offices of physicians		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	11.82	10.30	9.36	1.57	1.22	1.50	.14	.12	.14
Flight attendants	.04	.05	.09	.00	.00	.00	.00	.00	.00
Attendants, recreation, amusement	8.41	7.64	7.20	.02	.02	.05	.00	.00	.00
Attendants, personal serv, other	1.66	1.32	.82	.06	.05	.08	.02	.02	.02
Baggage porters and bellhops	.03	.02	.11	.00	.00	.00	.00	.00	.00
Barbers	.20	.03	.04	.09	.01	.02	.00	.00	.00
Bootblacks	.03	.01	.02	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.30	.15	.20	.69	.45	.48	.03	.01	.05
Elevator operators	.03	.03	.02	.08	.05	.01	.01	.01	.01
Hairdressers and cosmetologists	.08	.12	.10	.13	.15	.20	.00	.00	.00
Housekeepers, exc private homes	.71	.53	.29	.49	.41	.60	.08	.06	.05
Ushers, recreation and amusement	.34	.41	.49	.00	.00	.00	.00	.00	.00
Welfare service aides	.00	.00	.00	.01	.08	.05	.00	.01	.00
Protective service workers	1.36	1.27	.68	.38	.38	.54	.02	.02	.03
Crossing guards, bridgetenders	.00	.00	.00	.01	.01	.02	.00	.00	.00
Firefighters	.02	.01	.01	.01	.01	.01	.00	.00	.00
Guards	1.25	1.19	.65	.34	.35	.50	.02	.02	.03
Police and detectives	.10	.07	.01	.02	.02	.01	.00	.00	.00
Laborers, except farm	12.48	14.04	15.00	.66	.68	.84	.23	.13	.15
Animal caretakers, exc farm	1.39	1.82	1.68	.05	.07	.08	.00	.00	.00
Carpenter helpers	.05	.05	.09	.01	.01	.03	.00	.00	.00
Constr labr, exc carpenter helpc	.13	.10	.05	.03	.02	.02	.00	.00	.00
Fishers, hunters, trappers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Freight and material handlers	.00	.00	.00	.02	.02	.03	.00	.00	.00
Gardenrs, groundkeepers, exc farm	9.59	10.82	12.12	.29	.28	.37	.21	.12	.14
Stock handlers	.05	.06	.03	.18	.19	.23	.00	.00	.00
Teamsters	.01	.01	.02	.00	.00	.00	.00	.00	.00
Vehicle washers, equip cleaners	.05	.04	.01	.04	.04	.05	.02	.01	.02
Warehouse labcrers, other	.03	.03	.06	.02	.02	.01	.00	.00	.00
Other laborers	1.19	1.10	.94	.02	.02	.02	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Offices of dentists			Offices of chiroprctrs			Hospitals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	41.64	38.22	36.80	71.92	44.25	69.12	31.54	34.43	31.49
Engineers,technical	.00	.00	.00	.00	.00	.00	.10	.10	.13
Civil	.00	.00	.00	.00	.00	.00	.01	.01	.01
Electrical	.00	.00	.00	.00	.00	.00	.02	.02	.03
Industrial	.00	.00	.00	.00	.00	.00	.02	.03	.04
Mechanical	.00	.00	.00	.00	.00	.00	.02	.02	.03
Other engineers	.00	.00	.00	.00	.00	.00	.03	.03	.02
Life and physical scientists	.00	.00	.04	.00	.00	.18	.34	.49	.62
Biological	.00	.00	.00	.00	.00	.02	.20	.34	.41
Chemists	.00	.00	.00	.00	.00	.00	.12	.13	.19
Physicists and astronomers	.00	.00	.04	.00	.00	.16	.02	.02	.02
Mathematical specialists	.00	.00	.00	.00	.00	.00	.02	.02	.04
Statisticians	.00	.00	.00	.00	.00	.00	.02	.02	.04
Engineering,science technicians	.00	.00	.00	.00	.00	.00	.16	.18	.23
Agricultural,biolgycl,exc health	.00	.00	.00	.00	.00	.00	.02	.03	.03
Chemical technicians	.00	.00	.00	.00	.00	.00	.02	.02	.03
Drafters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Electrical and electronic	.00	.00	.00	.00	.00	.00	.02	.03	.04
Other engineering,science tech	.00	.00	.00	.00	.00	.00	.08	.09	.12
Medical workers,exc technicians	35.10	29.11	25.98	71.35	42.63	68.84	22.20	22.64	20.22
Chiropractors	.00	.00	.00	69.91	40.02	66.99	.00	.00	.00
Dentists	34.52	28.58	25.51	.00	.00	.00	.09	.08	.10
Dietitians	.00	.00	.00	.00	.00	.00	.70	.61	.54
Pharmacists	.00	.00	.00	.00	.00	.00	.40	.42	.44
Physicians and osteopaths	.00	.00	.00	.22	.00	.00	2.91	2.86	2.12
Podiatrists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Registered nurses	.58	.53	.47	.68	1.87	1.37	16.53	16.72	15.04
Therapists	.01	.00	.00	.53	.75	.48	1.53	1.91	1.95
Veterinarians	.00	.00	.00	.00	.00	.00	.02	.02	.02
Other medical and health tech	.00	.00	.00	.00	.00	.00	.00	.01	.00
Health technologists,technicians	5.75	8.54	10.41	.30	.95	.10	6.13	7.74	7.13
Clinical lab technologists,tech	.05	.07	.03	.08	.21	.07	3.31	3.68	3.19
Dental hygienists	5.37	7.98	10.06	.00	.00	.00	.01	.01	.01
Health record technologist,tech	.04	.03	.01	.03	.05	.03	.38	.37	.32
Radiologic technologists,tech	.19	.34	.24	.19	.69	.00	1.29	1.90	1.79
Therapy assistants	.00	.00	.00	.00	.00	.00	.08	.11	.10
Other health technicians	.11	.12	.07	.00	.00	.00	1.07	1.69	1.72
Technicians,except health	.03	.04	.00	.10	.16	.00	.01	.01	.01
Other technicians except health	.03	.04	.00	.10	.16	.00	.01	.01	.01
Computer specialists	.00	.00	.00	.00	.00	.00	.10	.15	.23
Computer programmers	.00	.00	.00	.00	.00	.00	.07	.09	.13
Computer systems analysts	.00	.00	.00	.00	.00	.00	.03	.05	.07
Other computer specialists	.00	.00	.00	.00	.00	.00	.01	.02	.03
Social scientists	.00	.00	.00	.00	.00	.00	.31	.76	.64
Psychologists	.00	.00	.00	.00	.00	.00	.30	.75	.64
Teachers	.00	.00	.00	.00	.00	.00	.52	.35	.20
Adult education	.00	.00	.00	.00	.00	.00	.02	.02	.02
Preschool and kindergarten	.00	.00	.00	.00	.00	.00	.01	.01	.04
Other teachers	.00	.00	.00	.00	.00	.00	.50	.32	.14
Writers,artists,entertainers	.00	.00	.00	.00	.00	.00	.15	.18	.19
Editors and reporters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Painters and sculptors	.00	.00	.00	.00	.00	.00	.01	.02	.02
Photographers	.00	.00	.00	.00	.00	.00	.04	.03	.03
Public relations specialists	.00	.00	.00	.00	.00	.00	.06	.09	.12
Other writers,artists,entertain	.00	.00	.00	.00	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Offices of dentists			Offices of chiroprctrs			Hospitals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	.75	.53	.37	.18	.51	.00	1.50	1.80	1.85
Accountants	.09	.08	.05	.11	.15	.00	.32	.38	.48
Clergy	.00	.00	.00	.00	.00	.00	.08	.07	.08
Religious workers,except clergy	.00	.00	.00	.00	.00	.00	.01	.01	.02
Lawyers	.05	.44	.30	.07	.36	.00	.01	.02	.02
Librarians	.00	.00	.00	.00	.00	.00	.02	.03	.04
Operations and systems research	.00	.00	.00	.00	.00	.00	.01	.02	.03
Personnel,labor relations wkrs	.01	.00	.00	.00	.00	.00	.23	.24	.16
Other research workers	.01	.02	.02	.00	.00	.00	.13	.12	.10
Recreation workers	.00	.00	.00	.00	.00	.00	.07	.10	.09
Social workers	.00	.00	.00	.00	.00	.00	.58	.78	.80
Vocation,education counselors	.00	.00	.00	.00	.00	.00	.03	.04	.04
Managers,officials,proprietors	.93	.98	1.11	.38	1.11	.23	2.65	3.10	3.19
Buyers,sales,loan managers	.00	.00	.00	.00	.00	.00	.38	.37	.54
Bank,financial managers	.00	.00	.00	.00	.00	.00	.09	.10	.14
Credit managers	.00	.00	.00	.00	.00	.00	.07	.05	.07
Purchasing agents,buyers,other	.00	.00	.00	.00	.00	.00	.22	.22	.33
Administrators,public inspectors	.00	.00	.00	.00	.00	.00	2.09	2.54	2.39
Health administrators	.00	.00	.00	.00	.00	.00	2.09	2.54	2.39
Other managers,officials,proprts	.93	.98	1.11	.38	1.11	.23	.18	.19	.26
Mgrs, superintendents, building	.00	.01	.00	.00	.00	.00	.03	.03	.02
Office managers, other	.64	.83	1.02	.32	.98	.23	.12	.14	.21
Restaurant,cafe,bar,managers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Other managers, administrators	.29	.15	.09	.06	.14	.00	.00	.00	.00
Sales workers	.00	.00	.00	.00	.00	.00	.06	.06	.07
Other sales workers	.00	.00	.00	.00	.00	.00	.06	.06	.07
Clerical workers	15.85	19.46	17.51	21.71	41.01	22.18	16.10	16.12	21.42
Stenographers,typists,secretaries	3.91	5.10	6.20	3.60	7.21	3.58	5.68	5.43	7.89
Legal secretaries	.00	.00	.00	.00	.00	.00	.02	.02	.05
Medical secretaries	.57	.52	.59	.18	.28	.21	1.02	.74	1.47
Other secretaries	3.11	4.30	5.42	2.85	5.96	3.15	3.05	3.26	4.69
Stenographers	.02	.02	.01	.00	.00	.00	.16	.09	.04
Typists	.22	.27	.18	.57	.97	.22	1.43	1.31	1.64
Office machine operators	.01	.00	.00	.00	.00	.00	.43	.49	.48
Bookkeeping and billing	.00	.00	.00	.00	.00	.00	.09	.05	.06
Computer and peripheral equip	.00	.00	.00	.00	.00	.00	.10	.24	.27
Duplicating	.00	.00	.00	.00	.00	.00	.01	.01	.01
Keypunch	.00	.00	.00	.00	.00	.00	.19	.15	.11
Other office machine operators	.00	.00	.00	.00	.00	.00	.04	.04	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Offices of dentists			Offices of chiroprctrs			Hospitals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	11.94	14.35	11.31	18.11	33.81	18.60	10.00	10.20	13.05
Billing clerks	.05	.06	.06	.08	.20	.16	.22	.26	.47
Bookkeepers	2.73	2.55	1.74	1.18	2.23	1.65	.90	.91	1.05
Cashiers	.01	.02	.01	.00	.00	.00	.45	.53	.83
Clerical supervisors, other	.02	.03	.03	.00	.00	.00	.21	.25	.36
Collectors, bill and account	.00	.00	.00	.00	.00	.00	.03	.04	.06
Counter clerks,exc food	.00	.00	.00	.00	.00	.00	.09	.10	.17
Dispatchers,starters,vehicle	.00	.00	.00	.00	.00	.00	.01	.02	.03
Estimators,investigators,other	.01	.01	.01	.00	.00	.00	.14	.18	.20
File clerks	.11	.10	.07	.06	.09	.03	.41	.35	.38
Insurance adjusters,examiners	.00	.00	.00	.00	.00	.00	.01	.02	.02
Library attendants, assistants	.00	.00	.00	.00	.00	.00	.07	.07	.08
Mail handlers,exc post office	.00	.00	.00	.08	.17	.09	.11	.11	.14
Messengers and office helpers	.05	.03	.02	.00	.00	.00	.12	.14	.21
Payroll,timekeeping clerks	.01	.02	.01	.00	.00	.00	.18	.23	.37
Receptionists	8.54	11.02	8.74	15.74	28.92	15.56	2.08	2.06	2.27
Shipping and receiving clerks	.00	.00	.00	.00	.00	.00	.06	.07	.14
Statistical clerks	.04	.08	.09	.00	.00	.00	.45	.53	.68
Stock clerks and store keepers	.00	.00	.00	.00	.00	.00	.52	.50	.69
Telephone operators	.01	.01	.01	.03	.04	.01	.77	.59	.81
Misc clerical workers	.36	.43	.52	.95	2.17	1.11	3.17	3.26	4.11
Crafts and kindred workers	2.08	1.89	2.90	.15	.42	.00	2.31	2.52	3.70
Construction crafts workers	.14	.06	.03	.15	.42	.00	1.05	1.10	1.54
Carpenters and apprentices	.14	.06	.03	.15	.42	.00	.29	.32	.42
Brick,stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.02	.02	.01
Electricians and apprentices	.00	.00	.00	.00	.00	.00	.22	.24	.36
Painters and apprentices	.00	.00	.00	.00	.00	.00	.31	.32	.44
Plasterers and apprentices	.00	.00	.00	.00	.00	.00	.02	.02	.03
Plumbers,pipefitters,aprentices	.00	.00	.00	.00	.00	.00	.17	.17	.26
Structural metal craft workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Blue collar worker supervisors	.00	.00	.00	.00	.00	.00	.21	.25	.39
Metalworkg craft wrkrs,exc mech	.00	.00	.00	.00	.00	.00	.06	.07	.19
Boilermakers	.00	.00	.00	.00	.00	.00	.02	.03	.06
Machinists and apprentices	.00	.00	.00	.00	.00	.00	.02	.04	.12
Sheetmetal workers, apprentices	.00	.00	.00	.00	.00	.00	.01	.01	.01
Mechanics,repairers,installers	.01	.01	.01	.00	.00	.00	.39	.51	.84
Air cond, heating, refrig meca	.00	.00	.00	.00	.00	.00	.09	.14	.23
Auto mechanics and apprentices	.00	.00	.00	.00	.00	.00	.04	.04	.07
Heavy equip mech, incl diesel	.00	.00	.00	.00	.00	.00	.19	.24	.41
Household appliance mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.02
Radio, television repairers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Other mechanics and apprentices	.01	.01	.01	.00	.00	.00	.06	.06	.07
Printing trade crafts workers	.00	.00	.00	.00	.00	.00	.04	.06	.16
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.03	.04	.10
Press,plate printers,aprentices	.00	.00	.00	.00	.00	.00	.02	.02	.06
Other crafts, kindred workers	2.53	1.81	2.86	.00	.00	.00	.55	.51	.59
Bakers	.00	.00	.00	.00	.00	.00	.10	.09	.12
Cabinetmakers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Dental laboratory technicians	2.53	1.81	2.86	.00	.00	.00	.02	.02	.03
Inspectors, other	.00	.00	.00	.00	.00	.00	.01	.01	.01
Opticians,lens grinder,polisair	.00	.00	.00	.00	.00	.00	.01	.01	.02
Stationary engineers	.00	.00	.00	.00	.00	.00	.38	.34	.37
Upholsterers	.00	.00	.00	.00	.00	.00	.01	.01	.01
Other crafts workers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Operatives	.09	.08	.03	.09	.13	.01	2.36	2.30	3.23
Operatives,except transport	.07	.06	.03	.07	.10	.01	2.00	1.94	2.83
Semiskilled metalworking	.00	.00	.00	.00	.00	.00	.01	.01	.01
Welders and flamecutters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Semiskilled packing, inspecting	.00	.00	.00	.00	.00	.00	.01	.01	.01
Packer,wrapper,exc meat,prodce	.00	.00	.00	.00	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Offices of dentists			Offices of chiroprctrs			Hospitals		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	.07	.06	.03	.07	.10	.01	1.97	1.91	2.80
Clothing ironers and pressers	.00	.00	.00	.00	.00	.00	.18	.17	.28
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.06	.07	.07
Laundry, dry cleany oprs, other	.01	.01	.00	.03	.04	.01	1.07	1.06	1.58
Meat cutters, butchers, exc mfg	.00	.00	.00	.00	.00	.00	.05	.03	.01
Photographic process workers	.01	.01	.01	.00	.00	.00	.05	.06	.10
Sewers and stitchers	.00	.00	.00	.00	.00	.00	.14	.15	.32
Furnace tendr, stokr, exc metal	.00	.00	.00	.00	.00	.00	.24	.16	.14
Miscellaneous machine operatives	.00	.00	.00	.00	.00	.00	.06	.08	.12
Other operatives, exc transport	.06	.04	.02	.04	.06	.00	.11	.13	.19
Transport equipment operatives	.02	.02	.00	.02	.03	.00	.36	.36	.40
Bus drivers	.00	.00	.00	.00	.00	.00	.01	.02	.00
Delivery and route workers	.01	.01	.00	.02	.03	.00	.05	.04	.07
Parking attendants	.00	.00	.00	.00	.00	.00	.01	.01	.00
Taxicab drivers, chauffeurs	.00	.01	.00	.00	.00	.00	.19	.19	.16
Truck drivers	.01	.01	.00	.00	.00	.00	.10	.10	.17
Service workers	38.50	39.25	41.59	5.65	12.83	8.32	44.19	40.60	35.81
Cleaning service workers	1.54	1.90	1.82	1.33	3.17	1.48	5.82	5.32	4.96
Lodging qtrs cleaners, exc privt	.12	.10	.17	.08	.10	.11	.71	.32	.21
Janitor interior cleaners, other	.91	1.16	1.02	.94	2.41	.94	3.20	3.15	2.75
Janitors and sextons	.52	.64	.62	.31	.66	.43	1.91	1.85	2.00
Food service wrkers	.00	.00	.00	.00	.00	.00	5.45	4.00	3.56
Waiters' assistants	.00	.00	.00	.00	.00	.00	.03	.03	.04
Cooks, exc private households	.00	.00	.00	.00	.00	.00	1.69	1.20	.78
Dishwashers	.00	.00	.00	.00	.00	.00	.48	.34	.55
Food counter, fountain workers	.00	.00	.00	.00	.00	.00	.33	.31	.30
Waiters	.00	.00	.00	.00	.00	.00	.31	.16	.06
Other food serv wkrs, exc privt	.00	.00	.00	.00	.00	.00	2.60	1.95	1.84
Health service workers	36.92	37.31	39.71	4.12	9.36	6.80	30.81	29.54	25.01
Dental assistants	36.01	35.85	38.05	.00	.00	.00	.07	.08	.09
Health aides, except nursing	.53	1.01	1.26	3.67	8.54	6.20	2.49	3.10	4.42
Health trainees	.00	.00	.00	.00	.00	.00	.64	.35	.17
Nursing aides and orderlies	.26	.28	.19	.37	.66	.60	19.37	17.11	11.74
Practical nurses	.13	.18	.21	.08	.16	.00	8.23	8.90	8.59
Personal service workers	.03	.03	.06	.20	.30	.04	1.60	1.17	1.39
Attendants, recreation, amusement	.00	.00	.00	.00	.00	.00	.02	.02	.03
Attendants, personal serv, other	.00	.00	.00	.18	.27	.03	.04	.03	.01
Barbers	.00	.00	.00	.00	.00	.00	.13	.02	.03
Child care workers, exc private	.02	.02	.04	.00	.00	.00	.66	.40	.51
Elevator operators	.00	.00	.00	.00	.00	.00	.11	.08	.02
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.11	.13	.15
Housekeepers, exc private homes	.01	.01	.01	.03	.04	.01	.53	.44	.59
Welfare service aides	.00	.00	.00	.00	.00	.00	.01	.05	.05
Protective service workers	.00	.00	.00	.00	.00	.00	.52	.56	.88
Crossing guards, bridgetenders	.00	.00	.00	.00	.00	.00	.01	.01	.03
Firefighters	.00	.00	.00	.00	.00	.00	.02	.02	.01
Guards	.00	.00	.00	.00	.00	.00	.46	.51	.82
Police and detectives	.00	.00	.00	.00	.00	.00	.03	.02	.02
Laborers, except farm	.31	.12	.06	.10	.24	.14	.80	.88	1.09
Animal caretakers, exc farm	.00	.00	.00	.00	.00	.00	.05	.07	.10
Carpenter helpers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Constr labr, exc carpenter helpr	.00	.00	.00	.00	.00	.00	.04	.04	.02
Freight and material handlers	.00	.00	.00	.00	.00	.00	.02	.03	.05
Gardenrs, groundkeepers, exc farm	.31	.12	.06	.10	.24	.14	.31	.33	.39
Stock handlers	.00	.00	.00	.00	.00	.00	.27	.31	.40
Vehicle washers, equip cleaners	.00	.00	.00	.00	.00	.00	.04	.04	.04
Warehouse labcrers, other	.00	.00	.00	.00	.00	.00	.02	.02	.03
Other laborers	.00	.00	.00	.00	.00	.00	.02	.02	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Convalescent institutions			Other health practitioners			Other health services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	12.46	13.52	12.25	62.26	52.27	52.01	41.85	46.74	47.23
Engineers, technical	.03	.03	.03	.00	.00	.00	.57	.36	.51
Chemical	.00	.00	.00	.00	.00	.00	.02	.01	.00
Civil	.00	.00	.00	.00	.00	.00	.26	.13	.19
Electrical	.01	.00	.00	.00	.00	.00	.05	.04	.07
Industrial	.00	.00	.00	.00	.00	.00	.07	.07	.12
Mechanical	.01	.01	.01	.00	.00	.00	.04	.02	.04
Other engineers	.01	.01	.02	.00	.00	.00	.13	.09	.09
Life and physical scientists	.01	.01	.00	.01	.02	.00	2.01	2.30	2.22
Agricultural	.00	.00	.00	.00	.00	.00	.01	.01	.00
Biological	.00	.01	.00	.01	.02	.00	1.23	1.60	1.20
Chemists	.00	.00	.00	.00	.00	.00	.68	.63	.88
Geologists	.00	.00	.00	.00	.00	.00	.01	.01	.03
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.08	.04	.08
Other life, physical scientists	.00	.00	.00	.00	.00	.00	.02	.01	.02
Mathematical specialists	.00	.00	.00	.00	.00	.00	.20	.14	.19
Mathematicians	.00	.00	.00	.00	.00	.00	.02	.01	.00
Statisticians	.00	.00	.00	.00	.00	.00	.18	.13	.19
Engineering, science technicians	.00	.00	.00	.00	.00	.00	.53	.55	.66
Agricultural, biol, exc health	.00	.00	.00	.00	.00	.00	.10	.10	.07
Chemical technicians	.00	.00	.00	.00	.00	.00	.10	.13	.22
Drafters	.00	.00	.00	.00	.00	.00	.03	.02	.04
Electrical and electronic	.00	.00	.00	.00	.00	.00	.05	.07	.14
Industrial engineering	.00	.00	.00	.00	.00	.00	.01	.01	.04
Surveyors	.00	.00	.00	.00	.00	.00	.02	.01	.00
Other engineering, science tech	.00	.00	.00	.00	.00	.00	.21	.20	.15
Medical workers, exc technicians	10.66	10.89	9.56	49.60	37.69	31.73	22.85	23.62	27.30
Chiropractors	.00	.00	.00	.08	.08	.04	.00	.00	.00
Dentists	.01	.02	.02	.00	.00	.00	.38	.30	.44
Dietitians	.45	.38	.37	.34	.02	.00	.23	.14	.06
Optometrists	.00	.00	.00	33.15	20.98	15.21	.02	.02	.01
Pharmacists	.02	.02	.01	.00	.00	.00	.07	.05	.10
Physicians and osteopaths	.07	.08	.04	.26	.31	.53	1.56	1.74	1.58
Podiatrists	.00	.00	.00	13.14	8.70	8.49	.01	.01	.00
Registered nurses	9.39	9.17	7.78	.60	.43	.26	17.10	16.78	21.27
Therapists	.71	1.21	1.34	.50	.60	.74	3.40	4.48	3.74
Veterinarians	.00	.00	.00	.00	.00	.00	.07	.03	.02
Other medical and health tech	.00	.01	.00	1.54	6.57	6.45	.01	.07	.07
Health technologists, technicians	.20	.29	.20	4.80	8.23	7.51	8.81	10.80	6.97
Clinical lab technologists, tech	.06	.07	.03	.04	.05	.06	5.71	7.03	4.00
Dental hygienists	.00	.01	.01	.01	.00	.00	.38	.27	.62
Health record technologist, tech	.02	.02	.02	.00	.00	.00	.05	.04	.07
Radiologic technologists, tech	.01	.02	.03	1.95	1.93	2.84	.83	1.09	.58
Therapy assistants	.06	.08	.04	.03	.03	.09	.13	.26	.17
Other health technicians	.05	.10	.08	2.77	6.22	4.52	1.71	2.11	1.54
Technicians, except health	.01	.02	.03	.15	.22	.12	.08	.08	.09
Other technicians except health	.01	.02	.03	.15	.22	.12	.07	.08	.09
Computer specialists	.01	.02	.05	.00	.00	.00	.27	.25	.20
Computer programmers	.01	.01	.02	.00	.00	.00	.17	.16	.13
Computer systems analysts	.01	.01	.03	.00	.00	.00	.09	.09	.06
Other computer specialists	.00	.00	.00	.00	.00	.00	.01	.01	.02
Social scientists	.05	.17	.18	1.06	1.81	3.48	1.01	2.67	4.20
Economists	.00	.00	.00	.00	.00	.00	.04	.05	.08
Psychologists	.04	.16	.18	1.06	1.81	3.48	.92	2.55	3.95
Sociologists	.00	.00	.00	.00	.00	.00	.02	.03	.09
Urban and regional planners	.00	.00	.00	.00	.00	.00	.01	.02	.01
Other social scientists	.00	.00	.00	.00	.00	.00	.03	.03	.07
Teachers	.23	.23	.21	.14	.07	.08	.59	.50	.32
Adult education	.04	.05	.05	.01	.02	.01	.14	.19	.16
Preschool and kindergarten	.01	.02	.03	.00	.00	.00	.02	.02	.02
Other teachers	.18	.17	.14	.13	.05	.08	.43	.28	.15

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Convalescent institutions			Other health practitioners			Other health services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers, artists, entertainers	.08	.12	.17	.21	.09	.00	.56	.63	.44
Actors	.01	.00	.00	.00	.00	.00	.03	.02	.00
Athletes and kindred workers	.03	.05	.07	.00	.00	.00	.04	.04	.00
Designers	.00	.00	.00	.00	.00	.00	.02	.02	.02
Editors and reporters	.00	.00	.00	.00	.00	.00	.11	.10	.10
Painters and sculptors	.01	.02	.03	.00	.00	.00	.00	.00	.00
Photographers	.00	.00	.00	.00	.00	.00	.06	.04	.04
Public relations specialists	.02	.04	.06	.00	.00	.00	.22	.33	.26
Other writers, artists, entertainers	.01	.01	.01	.21	.09	.00	.09	.08	.03
Other professional and technical	1.18	1.74	1.82	6.28	4.15	9.09	4.36	4.84	4.13
Accountants	.13	.17	.20	.07	.06	.00	.43	.48	.46
Architects	.00	.00	.00	.00	.00	.00	.03	.02	.06
Clergy	.06	.05	.07	.07	.02	.00	.03	.02	.01
Religious workers, except clergy	.09	.08	.14	5.33	3.25	8.37	.01	.02	.03
Foresters and conservationists	.00	.00	.00	.00	.00	.00	.08	.03	.01
Home management advisors	.00	.00	.00	.02	.02	.00	.02	.01	.02
Lawyers	.04	.06	.05	.49	.54	.41	.19	.16	.04
Librarians	.02	.02	.02	.00	.00	.00	.05	.06	.06
Operations and systems research	.00	.00	.00	.00	.00	.00	.05	.06	.05
Personnel, labor relations workers	.09	.12	.12	.03	.03	.00	.40	.37	.26
Other research workers	.01	.01	.01	.08	.08	.10	.56	.52	.48
Recreation workers	.43	.76	.70	.00	.00	.00	.11	.19	.13
Social workers	.27	.42	.46	.14	.13	.18	1.94	2.36	2.08
Vocation, education counselors	.04	.05	.05	.05	.03	.03	.47	.53	.43
Managers, officials, proprietors	5.35	6.39	4.87	.58	.60	.71	7.41	8.76	7.82
Buyers, sales, loan managers	.09	.11	.21	.00	.00	.00	.31	.37	.42
Bank, financial managers	.02	.03	.04	.00	.00	.00	.14	.18	.13
Credit managers	.00	.00	.00	.00	.00	.00	.02	.01	.00
Purchasing agents, buyers, other	.07	.08	.17	.00	.00	.00	.12	.09	.14
Sales manager, exc retail trade	.00	.00	.00	.00	.00	.00	.04	.09	.15
Administrators, public inspectors	5.13	6.11	4.35	.00	.00	.00	4.39	5.30	4.90
Health administrators	5.13	6.11	4.35	.00	.00	.00	4.39	5.30	4.90
Other managers, officials, proprietors	.13	.17	.31	.58	.60	.71	2.70	3.10	2.50
Mgrs, superintendents, building	.02	.03	.06	.00	.00	.00	.02	.03	.06
Office managers, other	.09	.12	.23	.35	.42	.54	.37	.46	.38
Restaurant, cafe, bar, managers	.01	.01	.01	.00	.00	.00	.01	.02	.01
Other managers, administrators	.00	.00	.00	.23	.18	.17	2.29	2.60	2.05
Sales workers	.06	.08	.16	.07	.07	.00	.21	.33	.36
Other sales workers	.06	.08	.16	.07	.07	.00	.21	.32	.36
Clerical workers	3.84	4.38	6.52	30.10	36.62	34.67	18.55	18.11	19.39
Stenographers, typists, secretaries	1.45	1.68	2.67	7.19	8.70	9.15	10.22	9.49	12.56
Legal secretaries	.03	.03	.04	.18	.16	.00	.10	.12	.08
Medical secretaries	.05	.05	.12	.50	.42	.42	.56	.57	.81
Other secretaries	1.14	1.38	2.25	5.85	7.41	8.20	6.09	6.57	9.18
Stenographers	.02	.02	.01	.06	.04	.00	.59	.21	.05
Typists	.20	.21	.25	.61	.68	.53	2.87	2.03	2.45
Office machine operators	.04	.05	.09	.00	.00	.00	.55	.54	.38
Bookkeeping and billing	.01	.01	.01	.00	.00	.00	.05	.04	.06
Computer and peripheral equip	.01	.03	.06	.00	.00	.00	.10	.21	.13
Duplicating	.00	.00	.00	.00	.00	.00	.03	.02	.04
Key punch	.01	.01	.03	.00	.00	.00	.31	.22	.10
Tabulating	.00	.00	.00	.00	.00	.00	.02	.00	.00
Other office machine operators	.00	.00	.00	.00	.00	.00	.04	.05	.05

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Convalescent institutions			Other health practitioners			Other health services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	2.35	2.65	3.76	22.91	27.92	25.52	7.79	8.07	6.44
Billing clerks	.03	.04	.08	.07	.11	.20	.17	.25	.28
Bookkeepers	1.02	1.11	1.48	2.32	2.71	2.35	1.58	1.85	1.90
Cashiers	.02	.03	.03	.00	.00	.00	.05	.06	.07
Clerical assistant, soc welfare	.00	.01	.00	.00	.00	.00	.01	.18	.08
Clerical supervisors, other	.05	.06	.08	.01	.01	.01	.46	.33	.13
Collectors, bill and account	.00	.00	.00	.00	.00	.00	.01	.02	.03
Counter clerks, exc food	.02	.02	.04	.00	.00	.00	.03	.05	.09
Dispatchers, starters, vehicle	.00	.00	.00	.00	.00	.00	.01	.02	.04
Estimators, investigators, other	.01	.01	.01	.00	.00	.00	.23	.27	.19
File clerks	.03	.03	.03	.17	.17	.14	.50	.41	.40
Insurance adjusters, examiners	.00	.00	.00	.00	.00	.00	.02	.04	.03
Library attendants, assistants	.02	.04	.03	.00	.00	.00	.05	.05	.06
Mail handlers, exc post office	.02	.02	.02	.00	.00	.00	.20	.20	.19
Messengers and office helpers	.02	.01	.01	.02	.02	.00	.16	.20	.08
Payroll, timekeeping clerks	.06	.08	.09	.02	.03	.01	.11	.12	.09
Receptionists	.52	.59	.89	18.71	22.91	20.41	1.61	1.75	1.00
Shipping and receiving clerks	.01	.01	.01	.05	.04	.01	.11	.12	.08
Statistical clerks	.07	.09	.15	.09	.14	.23	.63	.54	.58
Stock clerks and store keepers	.08	.10	.16	.03	.02	.00	.30	.31	.35
Telephone operators	.14	.10	.08	.00	.00	.00	.22	.15	.08
Weighers	.00	.00	.00	.00	.00	.00	.01	.02	.04
Misc clerical workers	.24	.32	.55	1.42	1.77	2.16	1.34	1.14	.66
Crafts and kindred workers	.86	1.02	1.48	2.25	3.44	4.03	10.18	7.27	7.03
Construction crafts workers	.38	.44	.60	.07	.04	.02	.30	.24	.20
Carpenters and apprentices	.12	.13	.12	.07	.04	.02	.09	.08	.04
Brick, stonemasons, apprentices	.00	.00	.00	.00	.00	.00	.01	.01	.02
Electricians and apprentices	.05	.05	.06	.00	.00	.00	.05	.04	.02
Painters and apprentices	.15	.20	.39	.00	.00	.00	.09	.08	.11
Plumbers, pipefitters, apprentices	.04	.04	.04	.00	.00	.00	.06	.03	.01
Blue collar worker supervisors	.18	.21	.21	.00	.00	.00	.33	.33	.29
Mechanics, repairers, installers	.16	.24	.51	.00	.00	.00	.30	.35	.49
Air cond, heating, refrig mech	.01	.01	.03	.00	.00	.00	.04	.04	.06
Auto mechanics and apprentices	.04	.05	.09	.00	.00	.00	.05	.06	.10
Heavy equip mech, incl diesel	.08	.13	.32	.00	.00	.00	.11	.14	.19
Household appliance mechanics	.01	.01	.01	.00	.00	.00	.01	.02	.03
Office machine repairers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Radio, television repairers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Other mechanics and apprentices	.02	.03	.06	.00	.00	.00	.05	.07	.09
Printing trade crafts workers	.01	.01	.00	.00	.00	.00	.08	.08	.05
Compositors and typesetters	.00	.00	.00	.00	.00	.00	.05	.05	.02
Press, plate printers, apprentices	.00	.00	.00	.00	.00	.00	.02	.03	.03
Other crafts, kindred workers	.14	.13	.16	2.19	3.40	4.01	9.17	6.27	6.00
Bakers	.04	.04	.03	.00	.00	.00	.00	.00	.00
Cabinetmakers	.01	.01	.02	.00	.00	.00	.01	.01	.03
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.04	.05	.07
Dental laboratory technicians	.00	.01	.07	.00	.00	.00	7.22	4.98	4.67
Furniture and wood finishers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Glaziers	.00	.00	.00	.03	.03	.01	.00	.00	.00
Inspectors, other	.00	.00	.00	.00	.00	.00	1.71	1.06	1.09
Opticians, lens grinder, polisher	.00	.00	.00	2.12	3.34	4.00	.04	.06	.03
Stationary engineers	.07	.07	.05	.00	.00	.00	.09	.04	.01
Upholsterers	.00	.00	.00	.00	.00	.00	.01	.02	.03
Other crafts workers	.00	.00	.00	.04	.03	.01	.01	.02	.03
Operatives	2.07	2.43	4.35	.20	.17	.05	2.10	2.25	1.39
Operatives, except transport	1.91	2.27	4.29	.16	.12	.04	1.03	1.18	.92
Semiskilled packing, inspecting	.01	.01	.01	.02	.02	.00	.20	.23	.14
Packer, wrapper, exc meat, produce	.01	.01	.01	.02	.02	.00	.20	.23	.14

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Convalescent institutions			Other health practitioners			Other health services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other operatives, exc transport	1.90	2.26	4.27	.13	.10	.04	.84	.95	.78
Clothing ironers and pressers	.12	.14	.28	.00	.00	.00	.01	.02	.03
Dressmakers, exc factory	.03	.04	.05	.00	.00	.00	.06	.07	.06
Garage wrkr, gas station atten	.00	.00	.00	.00	.00	.00	.04	.05	.06
Laundry, dry cleang oprs, other	1.59	1.92	3.73	.01	.01	.01	.04	.06	.08
Meat cutters, butchers, exc mfg	.02	.01	.01	.00	.00	.00	.00	.00	.00
Mixing operatives	.00	.00	.00	.04	.01	.00	.00	.00	.00
Photographic process workers	.00	.00	.00	.01	.02	.01	.06	.07	.08
Furnace tendr, stokr, exc metal	.07	.06	.05	.00	.00	.00	.04	.02	.02
Miscellaneous machine operatives	.03	.04	.08	.05	.03	.03	.11	.17	.13
Other operatives, exc transport	.03	.05	.08	.03	.03	.00	.47	.50	.32
Transport equipment operatives	.17	.16	.07	.04	.04	.01	1.07	1.07	.47
Bus drivers	.01	.02	.01	.00	.00	.00	.05	.08	.01
Delivery and route workers	.01	.01	.01	.00	.00	.00	.53	.63	.33
Fork lift, tow motor operatives	.00	.00	.00	.00	.00	.00	.01	.01	.01
Parking attendants	.00	.00	.00	.00	.00	.00	.01	.02	.00
Taxicab drivers, chauffeurs	.11	.10	.04	.03	.03	.01	.21	.13	.02
Truck drivers	.04	.03	.01	.01	.01	.00	.26	.22	.09
Service workers	74.80	71.52	69.46	4.52	6.81	8.50	18.98	15.87	16.25
Cleaning service workers	6.99	7.69	9.11	.83	1.11	1.18	1.52	1.43	1.18
Lodging qtrs cleaners, exc privt	.86	.55	1.06	.03	.02	.01	.08	.06	.08
Bldg interior cleaners, other	3.90	4.74	5.07	.43	.53	.47	.46	.50	.41
Janitors and sextons	2.23	2.40	2.98	.38	.56	.71	.98	.87	.69
Food service workers	12.61	10.56	11.78	.00	.00	.00	.53	.44	.38
waiters' assistants	.05	.07	.23	.00	.00	.00	.00	.00	.00
Cooks, exc private households	5.89	4.71	3.62	.00	.00	.00	.22	.17	.08
Dishwashers	1.14	.94	2.19	.00	.00	.00	.06	.06	.09
Food counter, fountain workers	.12	.13	.14	.00	.00	.00	.03	.04	.06
Waiters	1.24	.59	.13	.00	.00	.00	.04	.02	.01
Other food serv wkrs, exc privt	4.15	4.11	5.46	.00	.00	.00	.18	.14	.14
Health service workers	51.15	49.93	45.23	3.39	5.53	7.06	14.85	12.30	13.40
Dental assistants	.03	.02	.01	.03	.00	.00	.83	.61	.72
Health aides, except nursing	.80	1.16	2.00	3.11	5.24	6.83	1.95	2.70	2.56
Lay midwives	.00	.00	.00	.00	.00	.00	.29	.12	.09
Nursing aides and orderlies	41.15	39.18	34.80	.05	.04	.00	3.92	3.11	2.95
Practical nurses	9.18	9.57	8.42	.21	.24	.23	7.86	5.76	7.09
Personal service workers	3.81	3.08	3.10	.29	.15	.25	1.77	1.49	1.15
Attendants, recreation, amusement	.05	.06	.12	.00	.00	.00	.02	.02	.06
Attendants, personal serv, other	.19	.19	.31	.24	.10	.19	.15	.10	.11
Barbers	.10	.02	.02	.00	.00	.00	.01	.00	.00
Child care workers, exc private	1.70	1.06	.67	.02	.02	.04	1.26	.80	.71
Elevator operators	.03	.02	.01	.00	.00	.00	.03	.03	.01
Hairdressers and cosmetologists	.47	.55	.58	.00	.00	.00	.07	.04	.07
Housekeepers, exc private homes	1.27	1.11	1.34	.03	.03	.02	.09	.08	.04
Welfare service aides	.01	.07	.06	.00	.00	.00	.14	.42	.15
Protective service workers	.24	.26	.24	.02	.02	.01	.32	.23	.14
Crossing guards, bridgetenders	.01	.01	.03	.00	.00	.00	.00	.00	.00
Guards	.22	.24	.21	.02	.02	.01	.28	.21	.14
Police and detectives	.01	.01	.00	.00	.00	.00	.03	.02	.00
Laborers, except farm	.56	.66	.92	.02	.03	.03	.71	.67	.54
Animal caretakers, exc farm	.01	.02	.04	.00	.00	.00	.28	.27	.21
Carpenter helpers	.01	.01	.02	.00	.00	.00	.02	.02	.03
Constr labr, exc carpenter helpr	.02	.02	.01	.00	.00	.00	.01	.01	.02
Freight and material handlers	.00	.00	.00	.00	.00	.00	.06	.08	.06
Gardeners, groundkeepers, exc farm	.42	.49	.68	.02	.03	.03	.13	.08	.04
Stock handlers	.02	.03	.06	.00	.00	.00	.04	.06	.09
Vehicle washers, equip cleaners	.05	.06	.09	.00	.00	.00	.07	.09	.05
Warehouse laborers, other	.00	.00	.00	.00	.00	.00	.02	.02	.01
Other laborers	.03	.03	.02	.00	.00	.00	.08	.05	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Legal services			Educational services			Elementary, secondary school		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	57.46	55.79	57.08	59.82	57.22	53.00	66.40	61.53	58.64
Engineers, technical	.06	.02	.04	.16	.14	.14	.03	.03	.03
Civil	.00	.00	.00	.02	.02	.01	.01	.01	.00
Electrical	.00	.00	.00	.05	.05	.05	.01	.01	.01
Industrial	.03	.01	.02	.01	.01	.01	.00	.00	.00
Mechanical	.00	.00	.00	.03	.02	.02	.01	.01	.01
Other engineers	.03	.01	.02	.03	.03	.04	.00	.00	.00
Life and physical scientists	.00	.00	.00	.27	.32	.30	.00	.00	.00
Agricultural	.00	.00	.00	.04	.05	.05	.00	.00	.00
Biological	.00	.00	.00	.07	.11	.10	.00	.00	.00
Chemists	.00	.00	.00	.09	.09	.10	.00	.00	.00
Geologists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.05	.05	.04	.00	.00	.00
Mathematical specialists	.00	.00	.00	.02	.02	.03	.00	.00	.00
Statisticians	.00	.00	.00	.02	.02	.02	.00	.00	.00
Engineering, science technicians	.03	.02	.01	.58	.56	.50	.02	.03	.04
Agricultural, biol, exc health	.00	.00	.00	.04	.04	.03	.00	.00	.00
Chemical technicians	.00	.00	.00	.10	.10	.10	.00	.00	.00
Drafters	.03	.02	.01	.04	.04	.04	.01	.01	.01
Electrical and electronic	.00	.00	.00	.07	.08	.09	.01	.01	.02
Other engineering, science tech	.00	.00	.00	.32	.29	.23	.01	.01	.01
Medical workers, exc technicians	.06	.03	.04	.81	.99	1.10	.76	1.00	.85
Dentists	.02	.01	.02	.01	.01	.00	.00	.00	.00
Dietitians	.00	.00	.00	.06	.05	.03	.05	.04	.02
Optometrists	.01	.00	.02	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.01	.00	.00	.10	.10	.11	.02	.02	.02
Registered nurses	.03	.02	.01	.41	.41	.59	.43	.46	.39
Therapists	.00	.00	.00	.23	.41	.36	.26	.49	.43
Veterinarians	.00	.00	.00	.01	.01	.01	.00	.00	.00
Health technologists, technicians	.00	.00	.00	.29	.42	.35	.02	.02	.03
Clinical lab technologists, tech	.00	.00	.00	.05	.05	.06	.00	.00	.00
Dental hygienists	.00	.00	.00	.01	.01	.02	.01	.02	.03
Other health technicians	.00	.00	.00	.22	.34	.25	.00	.00	.00
Technicians, except health	.00	.00	.00	.10	.15	.22	.02	.03	.04
Airplane pilots	.00	.00	.00	.03	.03	.05	.00	.00	.00
Other technicians except health	.00	.00	.00	.07	.11	.16	.02	.03	.04
Computer specialists	.01	.01	.01	.26	.33	.38	.04	.06	.04
Computer programmers	.01	.01	.01	.20	.24	.28	.03	.03	.02
Computer systems analysts	.00	.00	.00	.05	.08	.09	.01	.02	.02
Other computer specialists	.00	.00	.00	.01	.02	.01	.00	.00	.00
Social scientists	.00	.00	.00	.21	.56	.47	.16	.50	.38
Economists	.00	.00	.00	.02	.03	.05	.00	.00	.00
Psychologists	.00	.00	.00	.17	.49	.39	.16	.50	.38
Sociologists	.00	.00	.00	.01	.02	.02	.00	.00	.00
Other social scientists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Teachers	.00	.00	.00	51.71	47.42	43.16	62.10	55.58	53.15
Adult education	.00	.00	.00	.54	.76	.88	.20	.30	.27
College and university	.00	.00	.00	7.15	7.75	6.22	.00	.00	.00
Elementary school	.00	.00	.00	21.28	18.02	19.66	31.17	26.97	30.78
Preschool and kindergarten	.00	.00	.00	2.63	2.94	3.15	3.82	4.35	4.88
Secondary school	.00	.00	.00	18.29	15.92	10.95	26.78	23.83	17.14
Other teachers	.00	.00	.00	1.82	2.02	2.29	.14	.13	.09
Writers, artists, entertainers	.04	.06	.05	.52	.65	.72	.11	.19	.22
Actors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Athletes and kindred workers	.00	.00	.00	.04	.06	.06	.04	.06	.07
Designers	.00	.00	.00	.02	.02	.01	.00	.00	.00
Editors and reporters	.01	.02	.02	.11	.11	.10	.01	.01	.01
Musicians and composers	.00	.00	.00	.06	.07	.11	.02	.03	.05
Painters and sculptors	.00	.00	.00	.06	.10	.14	.01	.03	.04
Photographers	.00	.00	.00	.06	.05	.05	.00	.00	.00
Public relations specialists	.01	.02	.02	.10	.12	.13	.02	.03	.03
Other writers, artists, entertain	.02	.02	.01	.06	.09	.10	.01	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Legal services			Educational services			Elementary, secondary school		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	57.26	55.65	56.93	4.91	5.67	5.63	3.14	4.09	3.87
Accountants	.44	.49	.54	.22	.25	.28	.08	.11	.11
Architects	.00	.00	.00	.02	.02	.03	.01	.01	.01
Archivists and curators	.00	.00	.00	.02	.02	.02	.00	.00	.00
Clergy	.00	.00	.00	.03	.02	.03	.01	.01	.01
Religious workers, except clergy	.00	.00	.00	.03	.02	.02	.01	.01	.02
Farm management advisors	.00	.00	.00	.10	.11	.10	.00	.00	.00
Home management advisors	.00	.00	.00	.04	.03	.04	.00	.00	.00
Lawyers	56.47	54.88	55.99	.03	.05	.02	.01	.02	.01
Librarians	.22	.18	.31	1.64	1.69	1.69	1.24	1.40	1.33
Operations and systems research	.00	.00	.00	.02	.03	.04	.01	.01	.01
Personnel, labor relations wkr	.03	.03	.02	.15	.17	.15	.06	.08	.06
Other research workers	.08	.05	.04	.70	.67	.69	.02	.02	.02
Recreation workers	.00	.00	.00	.11	.20	.18	.06	.13	.11
Social workers	.02	.03	.03	.22	.34	.27	.25	.40	.33
Vocation, education counselors	.00	.00	.00	1.59	2.03	2.06	1.39	1.87	1.85
Managers, officials, proprietors	.59	.53	.30	5.43	6.74	7.10	5.43	7.04	7.25
Buyers, sales, loan managers	.03	.03	.03	.15	.16	.27	.06	.08	.12
Bank, financial managers	.02	.02	.02	.04	.04	.05	.01	.01	.02
Credit managers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Purchasing agents, buyers, other	.00	.00	.00	.09	.11	.18	.05	.06	.10
Sales manager, exc retail trade	.00	.00	.00	.01	.02	.04	.00	.00	.00
Administrators, public inspectors	.00	.00	.00	3.56	4.41	4.29	4.24	5.47	5.55
School administrators, college	.00	.00	.00	.67	.75	.75	.00	.00	.00
School admin, elem, secondary	.00	.00	.00	2.89	3.66	3.55	4.24	5.47	5.55
Other managers, officials, proprts	.56	.50	.27	1.72	2.17	2.54	1.14	1.49	1.59
Mgrs, superintendents, building	.00	.00	.00	.03	.05	.07	.02	.03	.05
Office managers, other	.35	.37	.20	.07	.09	.12	.03	.04	.04
Restaurant, cafe, bar, managers	.00	.00	.00	.47	.52	.52	.64	.73	.75
Other managers, administrators	.21	.13	.07	1.14	1.51	1.83	.45	.69	.75
Sales workers	.01	.01	.00	.12	.13	.22	.03	.04	.07
Other sales workers	.01	.01	.00	.11	.13	.22	.03	.04	.07
Clerical workers	41.21	43.05	42.15	15.85	17.93	21.77	10.52	13.45	17.57
Stenographers, typists, secretaries	36.60	38.45	39.06	6.57	6.57	7.39	4.07	4.22	4.68
Legal secretaries	21.49	23.62	24.63	.01	.00	.00	.00	.00	.00
Medical secretaries	.21	.10	.02	.03	.02	.04	.00	.00	.00
Other secretaries	13.26	13.48	13.54	5.08	5.23	6.04	3.40	3.55	4.05
Stenographers	.70	.34	.09	.13	.09	.06	.07	.04	.01
Typists	.94	.92	.79	1.33	1.22	1.25	.59	.63	.63
Office machine operators	.11	.10	.09	.42	.54	.58	.11	.14	.10
Bookkeeping and billing	.01	.01	.01	.02	.01	.02	.01	.01	.02
Computer and peripheral equip	.01	.02	.03	.13	.30	.28	.02	.06	.04
Duplicating	.04	.03	.04	.05	.05	.08	.01	.01	.02
Keypunch	.04	.03	.01	.18	.14	.15	.05	.04	.01
Other office machine operators	.01	.01	.01	.04	.04	.05	.01	.01	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Legal services			Educational services			Elementary, secondary school		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	4.50	4.50	3.00	8.87	10.82	13.81	6.35	9.10	12.78
Billing clerks	.02	.02	.02	.02	.02	.05	.01	.02	.03
Bookkeepers	1.33	1.36	.85	.56	.57	.53	.41	.43	.35
Cashiers	.01	.02	.03	.50	.59	.72	.43	.56	.67
Clerical supervisors, other	.07	.08	.05	.11	.15	.22	.04	.05	.06
Collectors, bill and account	.03	.03	.03	.00	.00	.01	.00	.00	.00
Counter clerks, exc food	.00	.00	.00	.12	.14	.23	.01	.02	.03
Dispatchers, starters, vehicle	.00	.00	.00	.02	.02	.03	.02	.02	.03
Enumerators and interviewers	.00	.00	.00	.02	.02	.01	.04	.03	.01
Estimators, investigators, other	.17	.17	.04	.03	.05	.06	.01	.02	.02
File clerks	.35	.31	.26	.24	.22	.26	.07	.07	.08
Insurance adjusters, examiners	.02	.03	.02	.00	.00	.00	.00	.00	.00
Library attendants, assistants	.03	.03	.05	1.76	2.03	2.24	.45	.59	.68
Mail handlers, exc post office	.10	.09	.09	.17	.17	.21	.02	.03	.03
Messengers and office helpers	.30	.33	.20	.04	.04	.03	.01	.01	.01
Payroll, timekeeping clerks	.02	.03	.02	.10	.11	.09	.07	.10	.08
Receptionists	1.17	1.26	.91	.57	.55	.64	.10	.11	.13
Shipping and receiving clerks	.01	.01	.02	.04	.03	.02	.01	.01	.01
Statistical clerks	.06	.06	.06	.19	.24	.34	.08	.12	.16
Stock clerks and store keepers	.03	.02	.01	.18	.20	.29	.08	.10	.13
Teachers aides, exc monitors	.00	.00	.00	3.11	4.50	6.42	4.09	6.24	9.64
Telephone operators	.21	.15	.09	.23	.12	.08	.06	.04	.03
Misc clerical workers	.57	.49	.27	.87	1.06	1.35	.36	.52	.62
Crafts and kindred workers	.08	.10	.11	1.84	1.85	1.72	1.29	1.44	1.25
Construction crafts workers	.02	.02	.03	.74	.72	.66	.50	.57	.52
Carpenters and apprentices	.01	.01	.02	.24	.22	.12	.18	.19	.14
Brick, stonemasons, apprentices	.00	.00	.00	.02	.02	.02	.01	.01	.01
Bulldozer operators	.00	.00	.00	.01	.01	.03	.01	.01	.03
Electricians and apprentices	.00	.00	.00	.14	.13	.11	.08	.09	.07
Painters and apprentices	.01	.01	.01	.19	.23	.30	.14	.18	.22
Plumbers, pipefitters, apprentices	.00	.00	.00	.10	.08	.05	.07	.06	.03
Structural metal craft workers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Blue collar worker supervisors	.02	.03	.04	.16	.17	.14	.09	.11	.11
Metalworkg craft wrkrs, exc meca	.00	.00	.00	.05	.06	.07	.03	.04	.06
Boilermakers	.00	.00	.00	.00	.01	.01	.01	.01	.02
Machinists and apprentices	.00	.00	.00	.04	.04	.04	.01	.02	.03
Sheetmetal workers, apprentices	.00	.00	.00	.01	.01	.02	.01	.01	.01
Mechanics, repairers, installers	.01	.01	.00	.43	.49	.54	.32	.37	.33
Air cond, heating, refrig meca	.00	.00	.00	.05	.07	.07	.02	.04	.04
Aircraft mechanics	.00	.00	.00	.01	.01	.03	.00	.00	.00
Auto mechanics and apprentices	.00	.00	.00	.14	.15	.16	.16	.16	.15
Heavy equip mech, incl diesel	.00	.00	.00	.09	.11	.13	.06	.07	.06
Office machine repairers	.00	.00	.00	.01	.01	.02	.01	.01	.01
Radio, television repairers	.00	.00	.00	.05	.04	.04	.04	.04	.04
Other mechanics and apprentices	.00	.00	.00	.06	.07	.08	.03	.04	.03
Printing trade crafts workers	.02	.02	.03	.10	.09	.08	.03	.02	.01
Bookbinders	.00	.00	.00	.01	.01	.01	.00	.00	.00
Compositors and typesetters	.01	.01	.03	.05	.04	.03	.01	.01	.00
Press, plate printers, apprentices	.01	.01	.00	.03	.04	.03	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Legal services			Educational services			Elementary, secondary school		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.01	.02	.02	.36	.32	.24	.33	.33	.23
Bakers	.00	.00	.00	.16	.15	.09	.19	.19	.13
Cabinetmakers	.00	.00	.00	.02	.01	.00	.01	.01	.00
Glaziers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Inspectors, other	.01	.01	.00	.02	.03	.02	.02	.02	.03
Stationary engineers	.00	.00	.00	.11	.09	.07	.08	.08	.06
Other crafts workers	.01	.01	.02	.01	.01	.01	.00	.00	.00
Operatives	.06	.05	.02	1.26	1.65	1.89	1.05	1.59	1.72
Operatives, except transport	.03	.02	.01	.59	.63	.81	.22	.24	.27
Semiskilled metalworking	.00	.00	.00	.02	.02	.02	.01	.01	.01
Welders and flamecutters	.00	.00	.00	.02	.02	.02	.01	.01	.01
Other operatives, exc transport	.03	.02	.01	.55	.60	.79	.20	.23	.26
Clothing ironers and pressers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Dressmakers, exc factory	.00	.00	.00	.01	.01	.01	.00	.00	.00
Laundry, dry cleang oprs, other	.00	.00	.00	.07	.07	.09	.04	.05	.07
Meat cutters, butchers, exc mfy	.00	.00	.00	.01	.01	.00	.00	.00	.00
Photographic process workers	.01	.00	.00	.03	.03	.03	.01	.01	.01
Sewers and stitchers	.00	.00	.00	.01	.02	.04	.01	.01	.04
Furnace tendr, stokr, exc metal	.00	.00	.00	.11	.07	.06	.09	.06	.04
Miscellaneous machine operatives	.00	.00	.00	.04	.06	.09	.02	.03	.04
Other operatives, exc transport	.02	.01	.01	.26	.32	.45	.03	.05	.07
Transport equipment operatives	.03	.03	.01	.68	1.02	1.08	.83	1.35	1.45
Bus drivers	.00	.00	.00	.50	.84	.87	.71	1.22	1.34
Delivery and route workers	.00	.00	.00	.05	.04	.04	.04	.04	.03
Parking attendants	.00	.00	.00	.02	.02	.02	.00	.00	.00
Taxicab drivers, chauffeurs	.02	.02	.01	.03	.02	.02	.02	.02	.02
Truck drivers	.00	.00	.00	.09	.09	.15	.06	.07	.06
Service workers	.58	.46	.32	14.91	13.51	13.03	14.86	14.32	12.80
Cleaning service workers	.35	.25	.13	5.80	5.55	4.64	5.85	5.92	4.51
Lodging qtrs cleaners, exc privt	.02	.01	.01	.44	.24	.32	.32	.20	.28
Bldg interior cleaners, other	.17	.14	.07	.51	.57	.63	.41	.50	.49
Janitors and sextons	.15	.09	.05	4.85	4.74	3.70	5.12	5.22	3.74
Food service workers	.00	.00	.00	6.30	5.31	5.32	6.42	5.79	5.46
Waiters' assistants	.00	.00	.00	.07	.09	.18	.01	.01	.03
Cooks, exc private households	.00	.00	.00	2.42	1.87	1.07	3.02	2.43	1.41
Dishwashers	.00	.00	.00	.49	.33	.45	.27	.20	.22
Food counter, fountain workers	.00	.00	.00	1.19	1.28	1.48	1.10	1.26	1.34
Waiters	.00	.00	.00	.34	.16	.06	.08	.04	.01
Other food serv wkrs, exc privt	.00	.00	.00	1.78	1.60	2.10	1.94	1.85	2.45
Health service workers	.08	.07	.06	.21	.21	.36	.16	.17	.32
Dental assistants	.05	.03	.01	.01	.01	.01	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.04	.05	.07	.01	.02	.02
Nursing aides and orderlies	.02	.03	.04	.11	.10	.20	.10	.10	.22
Practical nurses	.01	.01	.01	.05	.05	.09	.04	.04	.08
Personal service workers	.04	.04	.04	2.25	2.10	2.29	2.29	2.29	2.30
Flight attendants	.01	.01	.01	.00	.00	.00	.00	.00	.00
Attendants, recreation, amusement	.00	.00	.00	.13	.13	.23	.06	.07	.12
Attendants, personal serv, other	.00	.00	.00	.15	.14	.17	.12	.13	.16
Barbers	.00	.00	.00	.01	.00	.00	.00	.00	.00
Child care workers, exc private	.01	.01	.01	1.00	.81	.86	1.20	1.03	1.00
Elevator operators	.01	.01	.01	.01	.01	.01	.01	.01	.01
Hairdressers and cosmetologists	.00	.00	.00	.01	.01	.01	.01	.00	.00
Housekeepers, exc private homes	.01	.01	.01	.48	.38	.41	.24	.20	.14
School monitors	.00	.00	.00	.44	.48	.54	.63	.69	.81
Welfare service aides	.00	.00	.00	.02	.13	.05	.02	.15	.07
Protective service workers	.11	.11	.10	.36	.34	.42	.14	.15	.20
Crossing guards, bridgetenders	.00	.00	.00	.04	.04	.06	.05	.06	.09
Guards	.01	.01	.01	.26	.24	.32	.08	.08	.12
Police and detectives	.10	.10	.08	.06	.05	.04	.01	.01	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Legal services			Educational services			Elementary, secondary school		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	.02	.02	.02	.77	.98	1.27	.42	.60	.69
Animal caretakers, exc farm	.00	.00	.00	.06	.08	.10	.00	.00	.00
Carpenter helpers	.00	.00	.00	.03	.02	.02	.02	.01	.01
Constr labr, exc carpenter help	.00	.00	.00	.04	.04	.05	.02	.03	.04
Freight and material handlers	.01	.00	.00	.04	.04	.07	.02	.02	.03
Gardenrs, groundkeepers, exc farm	.01	.01	.02	.50	.67	.88	.31	.46	.53
Stock handlers	.00	.00	.00	.03	.04	.06	.01	.02	.02
Vehicle washers, equip cleaners	.00	.00	.00	.02	.02	.03	.01	.01	.01
Warehouse laborers, other	.00	.00	.00	.02	.02	.01	.02	.02	.01
Other laborers	.00	.00	.00	.04	.04	.06	.02	.03	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Colleges and universities			Libraries			Other educational services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	43.66	46.74	40.45	33.90	29.96	27.91	61.95	63.46	59.34
Engineers, technical	.51	.44	.42	.04	.05	.09	.06	.04	.02
Aeronautical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Chemical	.02	.02	.02	.00	.00	.00	.00	.00	.00
Civil	.06	.04	.03	.00	.00	.00	.02	.01	.00
Electrical	.19	.17	.14	.00	.00	.00	.00	.00	.00
Industrial	.03	.03	.04	.01	.01	.00	.00	.00	.00
Mechanical	.08	.06	.05	.01	.01	.00	.00	.00	.00
Metallurgical	.01	.01	.01	.00	.00	.00	.00	.00	.00
Other engineers	.11	.10	.12	.02	.03	.09	.03	.03	.02
Life and physical scientists	1.02	1.17	1.07	.00	.00	.00	.00	.00	.00
Agricultural	.14	.17	.16	.00	.00	.00	.00	.00	.00
Atmospheric and space	.01	.03	.03	.00	.00	.00	.00	.00	.00
Biological	.28	.42	.34	.00	.00	.00	.00	.00	.00
Chemists	.33	.32	.34	.00	.00	.00	.00	.00	.00
Geologists	.05	.04	.03	.00	.00	.00	.00	.00	.00
Marine	.02	.02	.02	.00	.00	.00	.00	.00	.00
Physicists and astronomers	.19	.17	.13	.00	.00	.00	.00	.00	.00
Other life, physical scientists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Mathematical specialists	.08	.07	.08	.00	.00	.00	.07	.08	.11
Mathematicians	.02	.02	.02	.00	.00	.00	.01	.01	.02
Statisticians	.06	.05	.06	.00	.00	.00	.06	.07	.09
Engineering, science technicians	2.11	1.97	1.64	.00	.00	.00	.16	.19	.29
Agricultural, biolgcl, exc health	.17	.16	.12	.00	.00	.00	.00	.00	.00
Chemical technicians	.36	.36	.35	.00	.00	.00	.00	.00	.00
Drafters	.14	.11	.12	.00	.00	.00	.03	.02	.02
Electrical and electronic	.25	.26	.24	.00	.00	.00	.06	.09	.17
Surveyors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Other engineering, science tecna	1.18	1.06	.79	.00	.00	.00	.07	.08	.10
Medical workers, exc technicians	.91	.90	1.72	.03	.03	.04	1.23	1.52	1.13
Dentists	.02	.02	.01	.00	.00	.00	.02	.01	.01
Dietitians	.07	.06	.06	.00	.00	.00	.11	.08	.03
Pharmacists	.02	.02	.01	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.33	.32	.33	.00	.00	.00	.06	.05	.05
Registered nurses	.36	.32	1.15	.03	.03	.04	.37	.33	.23
Therapists	.08	.12	.12	.00	.00	.00	.68	1.04	.80
Veterinarians	.03	.04	.05	.00	.00	.00	.00	.00	.00
Health technologists, technicians	1.04	1.50	1.18	.00	.00	.00	.02	.02	.02
Clinical lab technologists, techa	.16	.19	.22	.00	.00	.00	.00	.00	.00
Dental hygienists	.01	.01	.02	.00	.00	.00	.01	.01	.02
Health record technologist, tech	.03	.02	.01	.00	.00	.00	.00	.00	.00
Radiologic technologists, techa	.02	.02	.01	.00	.00	.00	.00	.00	.00
Therapy assistants	.01	.01	.02	.00	.00	.00	.01	.01	.00
Other health technicians	.82	1.25	.91	.00	.00	.00	.00	.00	.00
Technicians, except health	.24	.35	.50	.00	.00	.19	.63	.69	.85
Airplane pilots	.01	.02	.02	.00	.00	.00	.55	.59	.71
Radio operators	.02	.03	.02	.00	.00	.00	.01	.00	.00
Tool programers, numerical	.01	.00	.01	.00	.00	.00	.00	.00	.00
Other technicians except health	.20	.31	.45	.00	.00	.19	.06	.09	.14
Computer specialists	.81	1.00	1.13	.09	.18	.68	.40	.51	.38
Computer programers	.64	.74	.86	.07	.12	.41	.25	.29	.25
Computer systems analysts	.15	.21	.23	.03	.06	.27	.12	.18	.11
Other computer specialists	.03	.05	.04	.00	.00	.00	.02	.04	.02
Social scientists	.32	.68	.66	.11	.24	.21	.30	.70	.63
Economists	.06	.11	.15	.03	.12	.11	.03	.06	.11
Political scientists	.02	.01	.01	.02	.03	.00	.00	.00	.00
Psychologists	.19	.46	.40	.00	.00	.00	.25	.62	.49
Sociologists	.02	.05	.05	.01	.03	.02	.00	.00	.00
Urban and regional planners	.01	.02	.00	.00	.00	.00	.01	.01	.01
Other social scientists	.03	.04	.04	.05	.06	.08	.01	.02	.02
Teachers	27.54	29.18	22.50	.07	.05	.06	50.15	49.59	46.83
Adult education	.21	.28	.30	.01	.01	.03	8.37	9.89	10.12
College and university	27.29	28.86	22.15	.00	.00	.00	.00	.00	.00
Preschool and kindergarten	.04	.04	.05	.00	.00	.00	.24	.28	.33
Other teachers	.00	.00	.00	.06	.04	.03	41.55	39.41	36.39

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Colleges and universities			Libraries			Other educational services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers,artists,entertainers	1.43	1.57	1.50	.43	.76	.94	1.47	1.77	2.27
Actors	.04	.05	.04	.00	.00	.00	.02	.03	.04
Athletes and kindred workers	.00	.00	.00	.00	.00	.00	.22	.27	.30
Authors	.03	.03	.01	.00	.00	.00	.02	.03	.04
Designers	.07	.07	.03	.02	.01	.00	.05	.05	.01
Editors and reporters	.37	.32	.27	.19	.37	.28	.20	.19	.13
Musicians and composers	.11	.12	.14	.00	.00	.00	.32	.37	.59
Painters and sculptors	.14	.22	.26	.07	.09	.19	.26	.39	.56
Photographers	.20	.17	.17	.03	.03	.01	.05	.05	.06
Public relations specialists	.28	.32	.29	.06	.14	.31	.24	.28	.32
Radio and tv announcers	.02	.02	.02	.00	.00	.00	.01	.01	.04
Other writers,artists,entertain	.18	.24	.27	.06	.13	.15	.09	.12	.18
Other professional and technical	7.65	7.91	8.04	33.14	28.66	25.70	7.46	8.36	6.81
Accountants	.51	.52	.67	.07	.07	.00	.71	.74	.39
Architects	.06	.05	.08	.00	.00	.00	.04	.04	.05
Archivists and curators	.07	.08	.08	.05	.09	.07	.00	.00	.00
Clergy	.07	.05	.07	.00	.00	.00	.06	.04	.05
Religious workers,except clergy	.05	.03	.02	.00	.00	.00	.14	.11	.07
Farm management advisors	.37	.38	.35	.00	.00	.00	.05	.04	.02
Foresters and conservationists	.02	.02	.01	.00	.00	.00	.00	.00	.00
Home management advisors	.13	.12	.12	.00	.00	.00	.04	.04	.02
Lawyers	.06	.09	.05	.33	.39	.10	.07	.09	.02
Librarians	1.29	1.31	1.22	32.41	27.62	25.09	.41	.44	.40
Operations and systems research	.05	.08	.10	.01	.04	.03	.07	.10	.09
Personnel,labcr relations wkrs	.31	.32	.26	.07	.10	.12	.64	.65	.50
Other research workers	2.56	2.33	2.32	.20	.36	.29	.38	.36	.33
Recreation workers	.21	.36	.35	.00	.00	.00	.22	.34	.24
Social workers	.10	.12	.10	.00	.00	.00	.61	.77	.58
Vocation,education counselors	1.81	2.05	2.25	.00	.00	.00	4.01	4.62	4.07
Managers,officials,proprietors	5.47	6.14	6.76	.75	1.17	2.49	6.57	7.45	8.49
Buyers,sales,loan managers	.34	.33	.49	.05	.08	.19	.44	.44	.83
Bank,financial managers	.11	.11	.11	.00	.00	.00	.07	.07	.08
Credit managers	.00	.00	.00	.00	.00	.00	.03	.02	.01
Purchasing agents,buyers,other	.21	.21	.36	.05	.08	.19	.12	.12	.22
Sales manager, exc retail trade	.02	.02	.02	.00	.00	.00	.23	.24	.52
Administrators,public inspectors	2.54	2.79	2.66	.00	.00	.00	.00	.00	.00
School administrators, college	2.54	2.79	2.66	.00	.00	.00	.00	.00	.00
Other managers,officials,properts	2.59	3.02	3.61	.70	1.10	2.30	6.13	7.01	7.66
Mgrs, superintendents, building	.09	.11	.15	.02	.02	.03	.01	.01	.03
Office managers, other	.17	.18	.23	.00	.00	.12	.23	.23	.38
Officers,pilots,pursers,saip	.00	.00	.00	.00	.00	.00	.01	.01	.03
Restaurant,cafe,bar,managers	.10	.09	.11	.00	.00	.00	.27	.24	.22
Other managers, administrators	2.24	2.64	3.12	.68	1.08	2.16	5.62	6.52	7.00
Sales workers	.20	.21	.28	.00	.00	.00	1.08	.96	1.64
Advertising agents,sales worker	.01	.01	.02	.00	.00	.00	.02	.02	.01
Other sales wrkrs	.19	.19	.26	.00	.00	.00	1.06	.95	1.63
Clerical workers	27.10	26.81	29.22	61.63	64.72	61.54	17.69	17.28	19.18
Stenographers,typists,secretaries	12.85	12.20	13.23	3.52	3.45	4.94	9.16	8.62	9.61
Legal secretaries	.01	.01	.01	.03	.02	.01	.01	.01	.02
Medical secretaries	.11	.07	.13	.00	.00	.00	.00	.00	.00
Other secretaries	9.38	9.32	10.33	1.08	1.39	2.68	6.82	6.77	8.18
Stenographers	.24	.17	.15	.03	.02	.01	.64	.44	.21
Typists	3.12	2.63	2.61	2.37	2.02	2.24	1.68	1.40	1.20
Office machine operators	1.17	1.50	1.65	.22	.39	.34	.88	.93	.67
Bookkeeping and billing	.03	.02	.02	.00	.00	.00	.03	.01	.01
Calculating	.01	.01	.01	.00	.00	.00	.02	.02	.02
Computer and peripheral equip	.39	.86	.83	.04	.20	.18	.20	.41	.31
Duplicating	.15	.14	.22	.05	.06	.08	.04	.04	.05
Keypunch	.47	.36	.46	.06	.04	.02	.50	.37	.19
Tabulating	.02	.01	.00	.01	.00	.00	.01	.00	.01
Other office machine operators	.11	.10	.10	.06	.10	.06	.08	.08	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Colleges and universities			Libraries			Other educational services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	13.08	13.11	14.35	57.90	60.88	56.27	7.66	7.72	8.90
Billing clerks	.04	.05	.08	.00	.00	.12	.02	.02	.02
Bookkeepers	.87	.81	.84	.35	.33	.44	1.29	1.19	1.03
Cashiers	.75	.76	.97	.03	.06	.13	.19	.19	.20
Clerical supervisors, other	.26	.33	.47	.29	.61	.99	.31	.38	.52
Collectors, bill and account	.01	.01	.02	.00	.00	.00	.01	.00	.00
Counter clerks,exc food	.42	.46	.72	.00	.00	.00	.03	.04	.09
Dispatchers, starters, vehicle	.02	.02	.03	.00	.00	.00	.02	.02	.03
Estimators, investigators, other	.06	.07	.08	.00	.00	.21	.25	.31	.34
File clerks	.67	.55	.63	.75	.72	1.09	.28	.23	.23
Library attendants, assistants	2.63	3.08	2.95	54.82	57.42	51.14	.29	.31	.12
Mail handlers, exc post office	.52	.50	.61	.10	.15	.26	.27	.26	.34
Messengers and office helpers	.12	.11	.09	.17	.12	.06	.03	.02	.01
Payroll, timekeeping clerks	.15	.15	.10	.05	.06	.05	.08	.08	.04
Receptionists	1.79	1.60	1.76	.15	.18	.35	.87	.76	1.03
Shipping and receiving clerks	.10	.07	.04	.06	.06	.07	.09	.06	.02
Statistical clerks	.43	.49	.68	.12	.18	.33	.37	.45	.62
Stock clerks and store keepers	.45	.45	.66	.07	.09	.16	.25	.25	.34
Teachers aides, exc monitors	1.08	1.07	.80	.00	.00	.00	.92	.92	.68
Telephone operators	.69	.33	.20	.06	.03	.01	.14	.07	.02
Misc clerical workers	2.01	2.21	2.62	.87	.87	.85	1.93	2.16	3.24
Crafts and kindred workers	3.24	2.87	2.71	.51	.47	.49	2.47	2.29	2.38
Construction crafts workers	1.39	1.14	1.00	.11	.08	.13	.69	.64	.64
Carpenters and apprentices	.43	.31	.09	.06	.04	.07	.23	.20	.12
Brick, stonemasons, apprentices	.04	.03	.05	.00	.00	.00	.04	.04	.03
Bulldozer operators	.01	.01	.02	.00	.00	.00	.02	.02	.05
Electricians and apprentices	.29	.24	.21	.02	.01	.00	.10	.08	.03
Excavating, grading mach operatr	.02	.01	.01	.00	.00	.00	.01	.01	.03
Painters and apprentices	.35	.37	.48	.04	.03	.07	.19	.21	.31
Plasterers and apprentices	.01	.01	.00	.00	.00	.00	.01	.01	.00
Plumbers, pipefitters, apprentices	.20	.13	.10	.00	.00	.00	.09	.07	.04
Roofers and slaters	.01	.01	.03	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.02	.01	.01	.00	.00	.00	.01	.01	.03
Blue collar worker supervisors	.34	.29	.23	.09	.10	.11	.35	.31	.11
Metalworkg craft wrkrs, exc mech	.13	.11	.09	.00	.00	.00	.06	.06	.04
Boilermakers	.00	.00	.00	.00	.00	.00	.01	.01	.03
Machinists and apprentices	.10	.09	.07	.00	.00	.00	.05	.03	.01
Sheetmetal workers, apprentices	.03	.02	.02	.00	.00	.00	.01	.01	.00
Mechanics, repairers, installers	.66	.72	.88	.05	.06	.05	.94	.91	1.28
Air cond, heating, refrig mech	.12	.15	.13	.02	.04	.02	.03	.03	.01
Aircraft mechanics	.01	.01	.03	.00	.00	.00	.24	.21	.32
Auto body repairers	.01	.01	.01	.00	.00	.00	.09	.07	.07
Auto mechanics and apprentices	.10	.10	.13	.01	.01	.02	.25	.26	.38
Data processing mach repairers	.01	.01	.01	.00	.00	.00	.02	.03	.08
Heavy equip mech, incl diesel	.18	.22	.30	.00	.00	.00	.10	.13	.17
Household appliance mechanics	.01	.01	.01	.00	.00	.00	.01	.00	.00
Office machine repairers	.01	.01	.02	.00	.00	.00	.05	.03	.04
Radio, television repairers	.08	.06	.04	.00	.00	.00	.06	.05	.04
Other mechanics and apprentices	.13	.15	.19	.01	.01	.01	.10	.11	.16
Printing trade crafts workers	.26	.25	.23	.21	.19	.19	.14	.13	.10
Bookbinders	.04	.03	.03	.13	.10	.07	.02	.01	.00
Compositors and typesetters	.13	.13	.10	.03	.02	.00	.06	.05	.02
Photoengravers, lithcgraphers	.01	.01	.02	.00	.00	.00	.01	.01	.03
Press, plate printers, apprentices	.09	.09	.07	.05	.08	.11	.05	.06	.06
Transport, public util craft wrks	.01	.01	.01	.00	.00	.00	.02	.02	.01
Telephone installers, repairers	.01	.01	.01	.00	.00	.00	.02	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Colleges and universities			Libraries			Other educational services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.45	.35	.28	.06	.04	.01	.27	.23	.20
Bakers	.11	.07	.03	.00	.00	.00	.05	.04	.02
Cabinetmakers	.02	.02	.01	.00	.00	.00	.01	.01	.00
Crane,derrick,hoist operator	.01	.01	.02	.00	.00	.00	.00	.00	.00
Dental laboratory technicians	.02	.01	.01	.00	.00	.00	.00	.00	.00
Glaziers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Inspectors, other	.04	.04	.02	.00	.00	.00	.04	.03	.01
Motion picture projectionists	.01	.02	.02	.02	.01	.01	.01	.01	.01
Piano,organ tuners, repairers	.00	.00	.00	.00	.00	.00	.02	.01	.01
Shoe repairers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Sign painters and letterers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.19	.13	.11	.04	.02	.01	.09	.07	.03
Tailors	.00	.00	.00	.00	.00	.00	.01	.01	.02
Upholsterers	.01	.01	.02	.00	.00	.00	.01	.01	.03
Other crafts workers	.03	.03	.03	.00	.00	.00	.01	.01	.03
Operatives	1.83	1.91	2.38	.86	1.14	3.01	1.25	1.21	1.11
Operatives,except transport	1.49	1.56	1.98	.43	.57	1.10	.98	.93	.97
Semiskilled metalworking	.04	.03	.02	.00	.00	.00	.11	.10	.06
Welders and flamecutters	.04	.03	.02	.00	.00	.00	.11	.10	.06
Semiskilled packing, inspecting	.02	.01	.00	.00	.00	.00	.07	.05	.02
Packer,wrapper,exc meat,prodce	.02	.01	.00	.00	.00	.00	.07	.05	.02
Other operatives, exc transport	1.44	1.52	1.95	.43	.57	1.10	.80	.78	.89
Clothing ironers and pressers	.03	.02	.04	.00	.00	.00	.04	.04	.06
Cutting operatives, other	.01	.01	.02	.00	.00	.00	.01	.02	.03
Dressmakers, exc factory	.03	.03	.02	.00	.00	.00	.06	.07	.06
Garage wrkr,gas station atten	.01	.01	.01	.00	.00	.00	.01	.01	.01
Laundry,dry cleang oprs,other	.13	.13	.15	.00	.00	.00	.12	.12	.13
Meat cutters,butchers,exc mfy	.03	.02	.01	.00	.00	.00	.04	.03	.01
Photographic process workers	.07	.07	.05	.06	.09	.13	.04	.04	.04
Sewers and stitchers	.02	.02	.05	.00	.00	.00	.05	.05	.08
Furnace tendr,stokr,exc metal	.16	.11	.11	.01	.01	.01	.11	.07	.03
Miscellaneous machine operatives	.11	.13	.20	.00	.00	.00	.08	.08	.08
Other operatives,exc transport	.83	.97	1.31	.36	.48	.96	.22	.25	.38
Transport equipment operatives	.34	.35	.40	.43	.57	1.91	.27	.28	.14
Bus drivers	.04	.07	.03	.00	.00	.00	.09	.12	.03
Delivery and route workers	.08	.06	.05	.04	.04	.07	.03	.02	.01
Fork lift,tow motor operatives	.00	.00	.00	.00	.00	.00	.01	.02	.01
Parking attendants	.06	.06	.06	.00	.00	.00	.00	.00	.00
Taxicab drivers, chauffeurs	.04	.03	.01	.00	.00	.00	.06	.04	.01
Truck drivers	.13	.14	.26	.39	.54	1.84	.08	.07	.08
Service workers	16.71	13.27	15.40	2.18	2.31	4.18	8.59	6.93	7.31
Cleaning service workers	6.39	5.45	5.60	1.86	1.86	3.42	2.41	2.18	1.99
Lodging qtrs cleaners,exc privt	.85	.40	.48	.00	.00	.00	.06	.03	.05
Bldg interior cleaners, other	.78	.77	.94	.34	.35	.57	.44	.47	.59
Janitors and sextons	4.76	4.28	4.18	1.52	1.51	2.84	1.91	1.69	1.35
Food service workers	6.86	5.02	6.14	.02	.02	.03	2.63	1.91	1.74
Bartenders	.00	.00	.00	.00	.00	.00	.01	.01	.01
Waiters' assistants	.27	.29	.54	.00	.00	.00	.02	.02	.08
Cooks,exc private households	1.13	.75	.50	.00	.00	.00	1.31	.85	.36
Dishwashers	1.17	.72	1.08	.00	.00	.00	.16	.09	.09
Food counter,fountain workers	1.64	1.57	2.13	.01	.01	.03	.28	.29	.38
Waiters	1.04	.46	.17	.01	.00	.00	.17	.09	.03
Other food serv wkrs,exc privt	1.61	1.22	1.72	.00	.00	.00	.69	.57	.79
Health service workers	.29	.27	.42	.00	.00	.00	.55	.49	.65
Dental assistants	.04	.03	.02	.00	.00	.00	.01	.01	.01
Health aides, except nursing	.10	.12	.18	.00	.00	.00	.05	.06	.07
Nursing aides and orderlies	.10	.07	.13	.00	.00	.00	.31	.25	.33
Practical nurses	.06	.05	.09	.00	.00	.00	.18	.16	.24

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Colleges and universities			Libraries			Other educational services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	2.22	1.73	2.31	.05	.07	.07	2.67	2.05	2.70
Attendants, recreation, amusement	.33	.32	.57	.00	.00	.00	.02	.02	.03
Attendants, personal serv, other	.23	.18	.18	.02	.02	.03	.17	.15	.27
Barbers	.03	.00	.01	.00	.00	.00	.00	.00	.00
Child care workers, exc private	.38	.24	.39	.00	.00	.00	1.87	1.18	1.82
Elevator operators	.03	.02	.01	.03	.05	.04	.01	.01	.01
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.15	.17	.18
Housekeepers, exc private homes	1.17	.89	1.10	.00	.00	.00	.33	.24	.20
School monitors	.04	.04	.04	.00	.00	.00	.06	.06	.08
Welfare service aides	.02	.05	.02	.00	.00	.00	.04	.21	.13
Protective service workers	.94	.80	.93	.25	.36	.67	.32	.30	.24
Crossing guards, bridgetenders	.01	.01	.01	.00	.00	.00	.01	.01	.02
Firefighters	.01	.01	.01	.00	.00	.00	.01	.01	.01
Guards	.72	.62	.77	.25	.36	.67	.28	.27	.21
Police and detectives	.21	.16	.13	.00	.00	.00	.02	.02	.00
Laborers, except farm	1.78	2.07	2.81	.17	.22	.39	.41	.42	.55
Animal caretakers, exc farm	.22	.29	.34	.00	.00	.00	.00	.00	.00
Carpenter helpers	.05	.04	.04	.00	.00	.00	.03	.02	.03
Constr labr, exc carpenter help	.09	.08	.08	.00	.00	.00	.05	.05	.04
Freight and material handlers	.10	.10	.16	.00	.00	.00	.05	.06	.13
Garbage collectors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	1.08	1.31	1.86	.09	.11	.19	.17	.19	.21
Stock handlers	.08	.09	.13	.04	.04	.09	.02	.02	.03
Vehicle washers, equip cleaners	.06	.06	.07	.00	.00	.00	.03	.03	.03
Warehouse labcrers, other	.02	.01	.01	.00	.00	.00	.00	.00	.00
Other laborers	.08	.08	.10	.04	.07	.10	.06	.06	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Museums, art galleries, zoos			Nonprofit organizatns			Religious organizatns		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	27.51	29.13	26.27	40.89	41.17	36.66	56.97	54.76	53.63
Engineers,technical	.20	.17	.16	.18	.17	.24	.00	.00	.00
Chemical	.00	.00	.00	.01	.01	.01	.00	.00	.00
Civil	.00	.00	.00	.05	.04	.08	.00	.00	.00
Electrical	.09	.08	.08	.03	.03	.03	.00	.00	.00
Industrial	.00	.00	.00	.02	.02	.02	.00	.00	.00
Mechanical	.06	.05	.02	.03	.03	.04	.00	.00	.00
Other engineers	.05	.05	.06	.04	.04	.04	.00	.00	.00
Life and physical scientists	1.53	1.88	1.35	.02	.03	.03	.00	.00	.00
Agricultural	.14	.16	.14	.01	.01	.01	.00	.00	.00
Biological	.96	1.38	.88	.00	.01	.00	.00	.00	.00
Chemists	.14	.11	.11	.01	.01	.00	.00	.00	.00
Geologists	.19	.15	.14	.00	.00	.00	.00	.00	.00
Marine	.10	.10	.09	.00	.00	.00	.00	.00	.00
Mathematical specialists	.01	.01	.02	.05	.05	.06	.01	.01	.01
Statisticians	.01	.01	.02	.05	.04	.06	.01	.01	.01
Engineering,science technicians	.47	.47	.65	.17	.15	.15	.00	.00	.00
Agricultural,biolgcl,exc health	.07	.07	.08	.06	.05	.03	.00	.00	.00
Chemical technicians	.06	.06	.06	.00	.00	.00	.00	.00	.00
Drafters	.00	.00	.00	.08	.06	.07	.00	.00	.00
Electrical and electronic	.10	.11	.13	.01	.01	.01	.00	.00	.00
Mechanical engineering	.02	.02	.02	.00	.00	.00	.00	.00	.00
Surveyors	.00	.00	.00	.02	.02	.02	.00	.00	.00
Other engineering,science tech	.22	.21	.35	.01	.01	.02	.00	.00	.00
Medical workers,exc technicians	.24	.21	.39	.65	.65	.72	.26	.26	.20
Dentists	.00	.00	.00	.01	.01	.02	.00	.00	.00
Dietitians	.05	.03	.01	.04	.03	.03	.04	.04	.03
Physicians and osteopaths	.02	.02	.04	.08	.09	.14	.07	.07	.07
Registered nurses	.10	.07	.03	.35	.28	.27	.13	.12	.08
Therapists	.00	.00	.00	.16	.23	.23	.02	.03	.03
Veterinarians	.08	.10	.31	.01	.01	.03	.00	.00	.00
Health technologists,technicians	.08	.11	.14	.06	.07	.08	.00	.00	.00
Clinical lab technologists,tech	.07	.08	.12	.03	.03	.06	.00	.00	.00
Other health technicians	.02	.03	.01	.02	.02	.02	.00	.00	.00
Technicians,except health	.40	.54	.69	.03	.03	.03	.00	.00	.00
Airplane pilots	.00	.00	.00	.00	.01	.01	.00	.00	.00
Radio operators	.00	.00	.00	.02	.02	.01	.00	.00	.00
Other technicians except health	.40	.54	.69	.01	.01	.02	.00	.00	.00
Computer specialists	.07	.09	.09	.11	.13	.13	.00	.00	.00
Computer programmers	.06	.06	.07	.07	.08	.08	.00	.00	.00
Computer systems analysts	.02	.03	.02	.03	.05	.04	.00	.00	.00
Other computer specialists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Social scientists	.48	.56	.73	.22	.36	.43	.04	.07	.09
Economists	.00	.00	.00	.06	.08	.08	.00	.00	.00
Political scientists	.00	.00	.00	.03	.03	.03	.00	.00	.00
Psychologists	.00	.00	.00	.08	.18	.26	.00	.00	.00
Sociologists	.00	.00	.00	.01	.02	.02	.01	.02	.02
Urban and regional planners	.00	.00	.00	.02	.02	.01	.00	.00	.00
Other social scientists	.48	.56	.73	.02	.03	.04	.03	.04	.06
Teachers	3.04	1.90	1.48	1.39	1.27	1.29	1.79	2.04	2.62
Adult education	.12	.15	.12	.12	.13	.12	.06	.08	.06
Preschool and kindergarten	.00	.00	.00	.59	.67	.83	1.20	1.52	2.23
Other teachers	2.92	1.75	1.35	.69	.48	.34	.52	.44	.32
Writers,artists,entertainers	7.84	8.98	9.99	3.95	4.63	4.35	6.36	8.28	9.64
Actors	.02	.03	.02	.00	.00	.01	.00	.00	.00
Athletes and kindred workers	.11	.11	.16	.49	.52	.44	.03	.04	.05
Authors	.07	.05	.09	.03	.04	.07	.02	.01	.00
Designers	.41	.43	.34	.02	.02	.03	.01	.01	.02
Editors and reporters	.46	.46	.35	.30	.31	.26	.21	.24	.17
Musicians and composers	.04	.04	.04	2.43	2.96	2.98	5.84	7.61	9.06
Painters and sculptors	4.24	5.18	6.88	.05	.06	.06	.05	.08	.11
Photographers	.53	.37	.28	.02	.02	.02	.01	.01	.02
Public relations specialists	.72	.85	.71	.52	.58	.41	.14	.19	.14
Other writers,artists,entertain	1.24	1.47	1.16	.11	.12	.09	.06	.09	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Museums, art galler- ies, zoos			Nonprofit organizatns			Religious organizatns		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other professional and technical	13.14	14.21	10.59	34.08	33.64	29.16	48.51	44.10	41.06
Accountants	.42	.42	.31	.66	.71	.72	.23	.26	.14
Architects	.04	.03	.01	.02	.02	.02	.01	.01	.01
Archivists and curators	9.99	11.12	8.28	.02	.03	.02	.02	.03	.03
Clergy	.00	.00	.00	16.37	13.26	10.70	40.56	34.87	32.85
Religious workers, except clergy	.00	.00	.00	2.64	2.79	2.29	6.38	7.15	6.70
Foresters and conservationists	.15	.12	.07	.01	.01	.01	.00	.00	.00
Home management advisors	.00	.00	.00	.02	.02	.02	.00	.00	.00
Lawyers	.12	.15	.05	.23	.30	.10	.03	.04	.01
Librarians	1.14	1.13	.88	.20	.19	.12	.26	.30	.24
Operations and systems research	.04	.04	.04	.03	.04	.04	.00	.00	.00
Personnel, labor relations wkrs	.14	.14	.11	.39	.38	.32	.08	.09	.06
Other research workers	.97	.81	.61	.19	.15	.11	.04	.04	.04
Recreation workers	.15	.24	.21	1.36	1.95	1.85	.32	.56	.42
Social workers	.00	.00	.00	11.69	13.51	12.60	.27	.38	.25
Vocation, education counselors	.00	.00	.00	.26	.28	.26	.30	.37	.32
Managers, officials, proprietors	9.01	9.37	11.20	9.84	9.81	9.71	1.10	1.35	1.22
Buyers, sales, loan managers	.85	.84	1.16	.25	.24	.29	.11	.14	.19
Bank, financial managers	.13	.14	.19	.11	.10	.09	.05	.06	.07
Purchasing agents, buyers, other	.48	.43	.53	.09	.08	.12	.05	.06	.09
Sales manager, exc retail trade	.24	.28	.44	.05	.06	.08	.01	.02	.04
Other managers, officials, proprts	8.16	8.53	10.04	9.59	9.57	9.42	.98	1.21	1.03
Mgrs, superintendents, building	.17	.19	.24	.05	.06	.10	.04	.06	.07
Office managers, other	.22	.24	.32	.55	.54	.67	.14	.17	.23
Officials of lodges, unions	.00	.00	.00	4.55	4.19	3.36	.00	.00	.00
Restaurant, cafe, bar, managers	.06	.06	.03	.29	.23	.12	.02	.02	.01
Other managers, administrators	7.71	8.04	9.46	4.15	4.54	5.16	.78	.96	.72
Sales workers	4.84	4.46	6.54	.58	.55	.73	.13	.15	.20
Advertising agents, sales worker	.02	.03	.02	.01	.02	.02	.00	.00	.00
Auctioneers	.13	.10	.08	.00	.00	.00	.00	.00	.00
Other sales workers	4.69	4.32	6.44	.57	.53	.70	.12	.15	.20
Clerical workers	17.70	17.10	18.10	25.47	25.94	28.39	19.14	21.14	21.53
Stenographers, typists, secretaries	8.11	7.64	8.24	16.17	15.43	16.99	15.13	16.80	17.43
Legal secretaries	.00	.00	.00	.04	.04	.06	.01	.01	.02
Medical secretaries	.00	.00	.00	.03	.02	.02	.00	.00	.00
Other secretaries	6.67	6.53	7.38	12.40	12.43	13.80	14.08	15.85	16.73
Stenographers	.12	.06	.01	.51	.30	.18	.06	.04	.01
Typists	1.32	1.06	.85	3.20	2.65	2.93	.98	.91	.68
Office machine operators	.23	.30	.27	.55	.53	.40	.20	.22	.16
Bookkeeping and billing	.00	.00	.00	.05	.03	.03	.02	.01	.01
Calculating	.00	.00	.00	.01	.01	.00	.01	.00	.00
Computer and peripheral equip	.06	.13	.12	.08	.17	.14	.02	.05	.04
Duplicating	.03	.03	.03	.04	.04	.04	.02	.02	.02
Keypunch	.03	.02	.01	.26	.19	.11	.08	.08	.06
Tabulating	.00	.00	.00	.01	.00	.00	.00	.00	.00
Other office machine operators	.11	.12	.11	.10	.09	.08	.05	.06	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Museums, art galler- ies, zoos			Nonprofit organizatns			Religious organizatns		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	9.36	9.16	9.59	8.75	9.99	11.00	3.80	4.12	3.93
Billing clerks	.00	.00	.00	.03	.04	.08	.01	.02	.04
Bookkeepers	1.39	1.28	1.28	2.25	2.03	1.91	1.32	1.37	1.08
Cashiers	1.58	1.72	2.09	.26	.27	.34	.03	.04	.04
Clerical assistant,soc welfare	.00	.00	.00	.10	1.89	1.69	.00	.00	.00
Clerical supervisors, other	.18	.19	.26	.45	.50	.79	.09	.12	.15
Collectors, bill and account	.00	.00	.00	.01	.01	.02	.00	.00	.00
Counter clerks,exc food	.13	.15	.19	.17	.17	.21	.03	.04	.05
Dispatchers,starters,vehicle	.00	.00	.00	.05	.04	.05	.00	.00	.00
Enumerators and interviewers	.00	.00	.00	.10	.09	.14	.02	.02	.04
Estimators,investigators,other	.04	.04	.04	.26	.30	.26	.02	.03	.03
File clerks	.34	.28	.34	.51	.40	.46	.18	.16	.14
Insurance adjusters,examiners	.00	.00	.00	.01	.02	.02	.00	.00	.00
Library attendants, assistants	.54	.57	.21	.10	.10	.04	.11	.13	.05
Mail handlers,exc post office	.27	.27	.35	.24	.24	.27	.19	.22	.26
Messengers and office helpers	.08	.07	.04	.05	.04	.02	.01	.01	.00
Payroll,timekeeping clerks	.10	.10	.06	.13	.12	.11	.02	.02	.01
Receptionists	2.03	1.91	1.98	1.27	1.12	1.10	.54	.58	.56
Shipping and receiving clerks	.15	.12	.06	.06	.05	.06	.03	.03	.01
Statistical clerks	.37	.40	.43	.38	.41	.57	.13	.17	.19
Stock clerks and store keepers	.22	.17	.14	.15	.12	.18	.03	.03	.04
Teachers aides, exc monitors	.12	.14	.15	.09	.09	.06	.07	.08	.05
Telephone operators	.29	.18	.13	.30	.18	.13	.11	.07	.02
Misc clerical workers	1.55	1.58	1.85	1.77	1.76	2.49	.86	.99	1.19
Crafts and kindred workers	5.56	4.71	2.92	1.79	1.75	2.02	.94	.92	.75
Construction crafts workers	2.86	2.14	.95	.99	.99	1.22	.46	.46	.36
Carpenters and apprentices	1.95	1.36	.37	.42	.41	.39	.24	.21	.07
Brick,stonemasons, apprentices	.02	.02	.01	.01	.01	.02	.03	.03	.04
Cement and concrete finishers	.00	.00	.00	.02	.02	.04	.00	.00	.00
Electricians and apprentices	.27	.25	.19	.19	.22	.34	.03	.03	.01
Painters and apprentices	.52	.44	.36	.16	.17	.21	.13	.15	.21
Plasterers and apprentices	.01	.01	.01	.02	.01	.01	.00	.00	.00
Plumbers,pipefitters,apprentices	.07	.05	.01	.16	.15	.21	.03	.03	.03
Structural metal craft workers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	.60	.57	.36	.25	.25	.24	.09	.09	.04
Metalworkg craft wrkrs,exc mech	.07	.05	.03	.00	.00	.00	.00	.00	.00
Blacksmiths	.02	.01	.00	.00	.00	.00	.00	.00	.00
Machinists and apprentices	.04	.03	.01	.00	.00	.00	.00	.00	.00
Sheetmetal workers, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Mechanics,repairers,installers	.83	.84	.79	.19	.21	.31	.10	.13	.23
Air cond, heating, refrig mech	.13	.16	.19	.02	.03	.04	.01	.01	.02
Aircraft mechanics	.02	.02	.01	.00	.00	.00	.00	.00	.00
Auto accessories installers	.02	.02	.02	.00	.00	.00	.00	.00	.00
Auto body repairers	.03	.02	.01	.00	.00	.00	.00	.00	.00
Auto mechanics and apprentices	.08	.06	.06	.04	.04	.05	.03	.03	.07
Heavy equip mech, incl diesel	.26	.29	.28	.06	.07	.12	.04	.06	.10
Household appliance mechanics	.01	.01	.01	.02	.02	.03	.01	.01	.02
Office machine repairers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Radio, television repairers	.04	.03	.01	.01	.01	.01	.00	.00	.00
Railroad, car shop repairers	.02	.03	.02	.00	.00	.01	.01	.01	.02
Other mechanics and apprentices	.22	.21	.19	.02	.02	.04	.01	.01	.02
Printing trade crafts workers	.15	.12	.05	.13	.13	.12	.14	.13	.05
Bookbinders	.03	.01	.01	.01	.00	.00	.01	.01	.00
Compositors and typesetters	.07	.05	.01	.07	.06	.06	.08	.07	.02
Engravers exc photoengravers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Photoengravers, lithographers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Press,plate printers,apprentices	.01	.01	.01	.06	.06	.06	.05	.05	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Museums, art galleries, zoos			Nonprofit organizatns			Religious organizatns		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	1.06	.98	.76	.22	.17	.12	.15	.12	.06
Bakers	.00	.00	.00	.04	.03	.01	.06	.05	.02
Cabinetmakers	.24	.17	.05	.02	.01	.01	.00	.00	.00
Decorators, window dressers	.19	.24	.08	.00	.00	.01	.00	.00	.00
Furniture and wood finishers	.08	.08	.10	.01	.00	.00	.00	.00	.00
Glaziers	.01	.01	.01	.00	.00	.01	.00	.00	.00
Inspectors, other	.03	.03	.02	.03	.02	.01	.01	.01	.02
Jewelers and watchmakers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Motion picture projectionists	.03	.02	.00	.01	.01	.01	.01	.00	.00
Sign painters and letterers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Stationary engineers	.30	.26	.25	.08	.06	.03	.06	.05	.02
Upholsterers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Other crafts workers	.14	.14	.23	.01	.01	.01	.00	.00	.00
Operatives	1.87	1.79	1.61	1.46	1.35	1.70	.62	.67	.70
Operatives,except transport	1.18	1.21	1.30	.90	.89	1.29	.45	.48	.63
Semiskilled metalworking	.06	.05	.04	.07	.07	.10	.00	.00	.00
Welders and flamecutters	.06	.05	.04	.07	.07	.10	.00	.00	.00
Semiskilled packing, inspecting	.18	.14	.07	.07	.05	.03	.04	.03	.01
Packer,wrapper,exc meat,prodc	.18	.14	.07	.07	.05	.03	.04	.03	.01
Other operatives, exc transport	.95	1.02	1.19	.76	.76	1.16	.41	.45	.62
Asbestos,insulation workers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Clothing ironers and pressers	.00	.00	.00	.03	.03	.07	.03	.03	.06
Dressmakers, exc factory	.01	.02	.01	.07	.07	.07	.07	.08	.06
Dry wall installers, lathers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Laundry,dry cleang oprs,other	.02	.02	.02	.12	.12	.22	.12	.13	.18
Meat cutters,butchers,exc mfg	.00	.00	.00	.01	.01	.01	.01	.00	.00
Photographic process workers	.09	.07	.04	.01	.01	.01	.01	.01	.02
Sailors and deckhands	.00	.00	.00	.01	.01	.02	.00	.00	.00
Sawyers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Sewers and stitchers	.00	.00	.00	.07	.06	.14	.08	.08	.17
Furnace tendr,stokr,exc metal	.05	.02	.01	.05	.03	.03	.03	.02	.01
Miscellaneous machine operatives	.29	.32	.45	.07	.07	.09	.04	.05	.05
Other operatives,exc transport	.47	.55	.66	.30	.30	.45	.04	.05	.08
Transport equipment operatives	.68	.58	.31	.56	.47	.41	.18	.20	.07
Bus drivers	.02	.02	.00	.06	.07	.01	.07	.11	.02
Delivery and route workers	.11	.10	.07	.05	.04	.05	.02	.01	.01
Fork lift,tow motor operatives	.02	.02	.02	.01	.02	.02	.00	.00	.00
Parking attendants	.14	.16	.10	.02	.01	.01	.01	.01	.02
Taxicab drivers, chauffeurs	.04	.03	.01	.11	.08	.04	.05	.03	.01
Truck drivers	.35	.25	.10	.31	.24	.28	.04	.03	.01
Service workers	21.37	18.35	15.90	18.82	18.27	19.39	20.20	19.90	20.69
Cleaning service workers	6.09	5.80	5.56	7.84	7.68	7.04	13.72	14.96	15.00
Lodging qtrs cleaners,exc privt	.02	.01	.02	.36	.18	.19	.54	.29	.26
Bldg interior cleaners, other	1.35	1.41	1.46	1.64	1.71	1.67	2.59	3.01	3.06
Janitors and sextons	4.71	4.37	4.07	5.84	5.79	5.18	10.59	11.66	11.69
Food service workers	1.46	1.10	1.19	3.67	2.49	2.00	1.89	1.45	.95
Bartenders	.01	.01	.01	.54	.43	.39	.00	.00	.00
Waiters' assistants	.21	.26	.60	.13	.11	.10	.01	.02	.03
Cooks,exc private households	.26	.17	.05	1.31	.93	.58	1.39	1.04	.47
Dishwashers	.04	.03	.02	.31	.18	.20	.09	.07	.12
Food counter,fountain workers	.21	.19	.14	.06	.06	.05	.03	.03	.03
Waiters	.42	.18	.02	.96	.51	.30	.12	.07	.02
Other food serv wkrs,exc privt	.32	.26	.33	.36	.27	.38	.24	.22	.29
Health service workers	.07	.07	.13	.60	.53	1.34	.17	.14	.22
Dental assistants	.00	.00	.00	.01	.01	.01	.00	.00	.00
Health aides, except nursing	.01	.01	.02	.05	.05	.10	.01	.01	.02
Nursing aides and orderlies	.06	.06	.11	.40	.34	.89	.10	.09	.14
Practical nurses	.00	.00	.00	.15	.13	.35	.05	.05	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Museums, art galler- ies, zoos			Nonprofit organizatns			Religious organizatns		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	6.12	5.04	5.90	6.45	7.34	8.80	4.34	3.24	4.40
Flight attendants	.00	.00	.00	.01	.01	.02	.00	.00	.00
Attendants, recreation, amusement	.46	.44	.59	.32	.27	.34	.00	.00	.00
Attendants, personal serv, other	3.55	3.21	4.42	.26	.21	.22	.06	.05	.04
Baggage porters and bellhops	.00	.00	.00	.01	.01	.03	.00	.00	.00
Barbers	.00	.00	.00	.03	.00	.01	.00	.00	.00
Child care workers, exc private	.15	.11	.26	4.16	2.79	3.57	3.39	2.33	3.51
Elevator operators	.08	.06	.01	.05	.04	.02	.02	.02	.01
Hairdressers and cosmetologists	.00	.00	.00	.06	.07	.08	.00	.00	.00
Housekeepers, exc private homes	.95	.72	.60	.62	.48	.41	.85	.75	.79
Ushers, recreation and amusement	.95	.49	.03	.00	.00	.00	.00	.00	.00
Welfare service aides	.00	.00	.00	.93	3.48	4.12	.02	.09	.05
Protective service workers	7.64	6.35	3.13	.26	.23	.21	.09	.11	.12
Firefighters	.02	.02	.01	.03	.03	.03	.00	.00	.00
Guards	7.38	6.17	3.07	.20	.18	.18	.09	.10	.12
Police and detectives	.24	.17	.05	.03	.02	.00	.00	.00	.00
Laborers, except farm	12.15	15.10	17.48	1.15	1.16	1.40	.91	1.10	1.30
Animal caretakers, exc farm	8.72	11.23	12.39	.16	.19	.18	.02	.01	.01
Carpenter helpers	.12	.09	.08	.05	.04	.07	.03	.02	.02
Constr labr, exc carpenter helpr	.19	.18	.17	.11	.09	.05	.03	.03	.03
Fishers, hunters, trappers	.02	.02	.01	.00	.00	.00	.00	.00	.00
Freight and material handlers	.13	.15	.26	.22	.20	.33	.01	.01	.02
Gardenrs, groundkeepers, exc farm	2.70	3.20	4.38	.35	.41	.49	.59	.76	.92
Stock handlers	.03	.04	.04	.04	.04	.03	.02	.03	.03
Vehicle washers, equip cleaners	.02	.02	.01	.01	.01	.02	.01	.01	.02
Warehouse labcrers, other	.06	.05	.01	.03	.02	.02	.01	.01	.02
Other laborers	.16	.14	.14	.18	.16	.20	.20	.21	.25

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Welfare services			Residential welfare services			Nonprofit membership organizations		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	45.51	45.72	38.91	12.90	19.09	18.44	15.30	18.09	15.30
Engineers, technical	.00	.00	.00	.00	.00	.00	.65	.65	.97
Chemical	.00	.00	.00	.00	.00	.00	.02	.02	.04
Civil	.00	.00	.00	.00	.00	.00	.19	.17	.32
Electrical	.00	.00	.00	.00	.00	.00	.09	.10	.14
Industrial	.00	.00	.00	.00	.00	.00	.09	.09	.10
Mechanical	.00	.00	.00	.00	.00	.00	.09	.10	.18
Metallurgical	.00	.00	.00	.00	.00	.00	.01	.01	.02
Sales	.00	.00	.00	.00	.00	.00	.01	.01	.03
Other engineers	.00	.00	.00	.00	.00	.00	.15	.14	.15
Life and physical scientists	.00	.00	.00	.00	.00	.00	.09	.10	.10
Agricultural	.00	.00	.00	.00	.00	.00	.03	.04	.05
Biological	.00	.00	.00	.00	.00	.00	.01	.02	.01
Chemists	.00	.00	.00	.00	.00	.00	.02	.02	.02
Physicists and astronomers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Mathematical specialists	.09	.08	.10	.00	.00	.00	.07	.07	.06
Statisticians	.09	.08	.10	.00	.00	.00	.07	.06	.06
Engineering, science technicians	.04	.03	.03	.00	.00	.00	.58	.56	.55
Agricultural, biologicl, exc health	.00	.00	.00	.00	.00	.00	.22	.21	.12
Drafters	.02	.02	.02	.00	.00	.00	.25	.23	.27
Electrical and electronic	.00	.00	.00	.00	.00	.00	.02	.02	.02
Surveyors	.02	.01	.01	.00	.00	.00	.06	.06	.09
Other engineering, science tech	.00	.00	.00	.00	.00	.00	.03	.04	.06
Medical workers, exc technicians	1.30	1.13	1.09	1.79	1.96	1.11	.35	.44	.74
Dentists	.01	.01	.02	.01	.02	.01	.01	.02	.05
Dietitians	.04	.02	.01	.22	.20	.18	.02	.02	.02
Pharmacists	.01	.01	.02	.00	.00	.00	.00	.00	.00
Physicians and osteopaths	.11	.09	.14	.07	.07	.00	.08	.10	.27
Registered nurses	.73	.49	.45	1.17	.99	.27	.14	.16	.25
Therapists	.39	.50	.45	.32	.67	.65	.07	.10	.06
Veterinarians	.00	.00	.00	.00	.00	.00	.03	.04	.10
Health technolcists, technicians	.14	.14	.17	.05	.07	.03	.06	.08	.05
Clinical lab technologists, tech	.09	.08	.14	.00	.00	.00	.03	.03	.01
Radiologic technologists, tech	.00	.00	.00	.00	.00	.00	.01	.01	.02
Therapy assistants	.00	.00	.00	.03	.04	.00	.00	.00	.00
Other health technicians	.04	.05	.04	.01	.03	.03	.02	.03	.02
Technicians, except health	.00	.00	.00	.00	.00	.00	.09	.13	.14
Airplane pilots	.00	.00	.00	.00	.00	.00	.01	.02	.05
Radio operators	.00	.00	.00	.00	.00	.00	.06	.07	.03
Other technicians except health	.00	.00	.00	.00	.00	.00	.03	.04	.06
Computer specialists	.18	.22	.19	.00	.00	.00	.19	.24	.24
Computer programers	.10	.11	.11	.00	.00	.00	.14	.16	.17
Computer systems analysts	.07	.09	.07	.00	.00	.00	.04	.06	.05
Other computer specialists	.01	.02	.01	.00	.00	.00	.01	.02	.02
Social scientists	.36	.59	.77	.19	.53	.33	.31	.45	.39
Economists	.06	.08	.12	.00	.00	.00	.15	.21	.13
Political scientists	.00	.00	.00	.00	.00	.00	.10	.11	.10
Psychologists	.23	.43	.60	.17	.48	.30	.02	.05	.06
Sociologists	.01	.02	.01	.01	.03	.02	.01	.03	.03
Urban and regional planners	.05	.05	.03	.01	.01	.01	.01	.02	.01
Other social scientists	.01	.01	.01	.00	.00	.00	.02	.03	.06
Teachers	1.09	.72	.66	1.02	1.18	1.61	1.19	.87	.46
Adult education	.20	.19	.18	.17	.29	.46	.10	.09	.03
Preschool and kindergarten	.23	.17	.18	.14	.20	.56	.15	.13	.09
Other teachers	.67	.37	.31	.71	.68	.58	.95	.64	.35

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Welfare services			Residential welfare services			Nonprofit membership organizations		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers, artists, entertainers	.79	.68	.61	.26	.40	.66	4.37	4.98	4.08
Actors	.00	.00	.00	.00	.00	.00	.01	.02	.02
Athletes and kindred workers	.14	.12	.14	.15	.27	.55	1.60	1.79	1.39
Authors	.00	.00	.00	.00	.00	.00	.07	.12	.28
Designers	.00	.00	.00	.00	.00	.00	.05	.07	.10
Editors and reporters	.09	.07	.04	.01	.01	.02	.71	.77	.76
Musicians and composers	.05	.04	.07	.03	.04	.04	.32	.31	.22
Painters and sculptors	.02	.02	.02	.00	.00	.00	.08	.10	.07
Photographers	.01	.01	.01	.00	.00	.00	.03	.03	.05
Public relations specialists	.37	.33	.26	.06	.06	.03	1.29	1.55	1.08
Other writers, artists, entertain	.10	.09	.07	.01	.02	.03	.21	.23	.12
Other professional and technical	41.50	42.14	35.28	9.59	14.95	14.70	7.34	9.55	7.53
Accountants	.86	.75	.56	.08	.09	.07	1.13	1.42	1.87
Architects	.02	.01	.02	.00	.00	.00	.05	.04	.04
Archivists and curators	.00	.00	.00	.00	.00	.00	.05	.06	.05
Clergy	.41	.23	.31	.19	.18	.29	.32	.26	.29
Religious workers, except clergy	.08	.05	.03	1.00	1.10	1.06	.17	.20	.32
Foresters and conservationists	.00	.00	.00	.00	.00	.00	.04	.04	.03
Home management advisors	.06	.04	.04	.00	.00	.00	.01	.01	.01
Lawyers	.44	.46	.09	.02	.03	.01	.32	.49	.22
Librarians	.06	.05	.04	.10	.13	.20	.27	.22	.06
Operations and systems research	.06	.08	.09	.00	.00	.00	.04	.05	.04
Personnel, labor relations wkrs	.74	.62	.46	.11	.14	.15	.47	.53	.47
Other research workers	.26	.18	.16	.07	.08	.13	.35	.26	.10
Recreation workers	.94	1.08	1.96	1.03	2.21	2.57	3.41	5.11	3.38
Social workers	37.30	38.33	31.25	6.57	10.38	9.58	.56	.72	.56
Vocation, education counselors	.28	.25	.26	.43	.61	.64	.14	.15	.10
Managers, officials, proprietors	8.71	7.87	8.50	3.97	5.23	4.98	24.89	25.40	23.73
Buyers, sales, loan managers	.22	.16	.18	.18	.25	.58	.49	.49	.54
Bank, financial managers	.13	.10	.08	.04	.05	.07	.17	.17	.15
Credit managers	.00	.00	.00	.00	.00	.00	.02	.01	.02
Purchasing agents, buyers, other	.07	.06	.08	.15	.20	.52	.14	.13	.14
Sales manager, exc retail trade	.02	.01	.02	.00	.00	.00	.16	.18	.23
Other managers, officials, proprt	8.49	7.71	8.33	3.79	4.99	4.40	24.40	24.91	23.19
Mgrs, superintendents, building	.03	.03	.05	.06	.11	.31	.09	.12	.17
Office managers, other	.51	.42	.59	.10	.13	.24	1.25	1.30	1.46
Officers, pilots, pursers, ship	.00	.00	.00	.00	.00	.00	.02	.02	.02
Officials of lodges, unions	.00	.00	.00	.00	.00	.00	17.02	16.40	13.72
Restaurant, cafe, bar, managers	.01	.01	.01	.01	.02	.03	1.05	.85	.46
Other managers, administrators	7.94	7.25	7.68	3.61	4.73	3.82	4.98	6.23	7.37
Sales workers	.64	.48	.73	.00	.00	.00	1.26	1.29	1.59
Advertising agents, sales worker	.00	.00	.00	.00	.00	.00	.04	.06	.10
Other sales wrkrs	.64	.47	.73	.00	.00	.00	1.21	1.23	1.49
Clerical workers	29.43	27.87	30.96	6.25	7.59	11.01	32.90	32.87	37.37
Stenographers, typists, secretaries	16.37	12.05	13.63	3.16	3.76	5.63	19.15	19.37	24.24
Legal secretaries	.08	.06	.08	.01	.01	.04	.05	.05	.08
Medical secretaries	.03	.02	.02	.03	.03	.06	.06	.04	.05
Other secretaries	8.36	6.58	8.31	2.29	2.89	4.67	15.70	16.30	20.58
Stenographers	1.25	.61	.19	.08	.04	.01	.38	.30	.43
Typists	6.64	4.78	5.03	.75	.79	.85	2.96	2.68	3.10
Office machine operators	.70	.58	.45	.11	.12	.25	.97	.96	.67
Bookkeeping and billing	.05	.03	.04	.01	.01	.01	.11	.05	.03
Calculating	.01	.01	.01	.00	.00	.00	.02	.01	.01
Computer and peripheral equip	.11	.19	.15	.00	.00	.00	.15	.33	.29
Duplicating	.05	.03	.05	.00	.00	.00	.08	.06	.04
Keypunch	.37	.24	.12	.04	.04	.04	.41	.32	.19
Tabulating	.03	.01	.00	.00	.00	.00	.01	.00	.00
Other office machine operators	.09	.07	.07	.06	.08	.20	.19	.18	.12

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Welfare services			Residential welfare services			Nonprofit membership organizations		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	12.35	15.25	16.88	2.98	3.71	5.13	12.79	12.55	12.46
Billing clerks	.05	.04	.10	.00	.00	.00	.06	.07	.12
Bookkeepers	2.34	1.73	1.88	.95	1.13	1.28	3.69	3.51	3.18
Cashiers	.29	.24	.30	.02	.02	.02	.60	.67	.87
Clerical assistant, soc welfare	.34	5.65	4.47	.00	.00	.00	.00	.00	.00
Clerical supervisors, other	1.05	1.04	1.62	.08	.14	.28	.34	.40	.45
Collectors, bill and account	.02	.02	.03	.00	.00	.00	.02	.02	.02
Counter clerks, exc food	.07	.06	.09	.00	.00	.00	.50	.53	.67
Dispatchers, starters, vehicle	.02	.02	.02	.00	.00	.00	.14	.15	.18
Enumerators and interviewers	.24	.19	.32	.00	.00	.00	.08	.06	.02
Estimators, investigators, other	.31	.33	.33	.02	.03	.03	.60	.69	.53
File clerks	.94	.62	.67	.13	.14	.20	.56	.50	.63
Insurance adjusters, examiners	.01	.01	.02	.00	.00	.00	.04	.07	.06
Library attendants, assistants	.06	.05	.03	.01	.02	.01	.14	.14	.04
Mail handlers, exc post office	.21	.18	.24	.11	.13	.22	.35	.35	.34
Messengers and office helpers	.10	.07	.04	.00	.00	.00	.07	.06	.02
Payroll, timekeeping clerks	.29	.24	.18	.05	.07	.04	.12	.13	.14
Real estate appraisers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Receptionists	1.40	1.07	1.32	.47	.59	.87	2.30	2.05	1.50
Shipping and receiving clerks	.06	.04	.03	.02	.02	.01	.10	.11	.17
Statistical clerks	.70	.67	1.08	.13	.19	.28	.44	.46	.34
Stock clerks and store keepers	.29	.21	.32	.20	.27	.39	.16	.13	.08
Teachers aides, exc monitors	.19	.15	.11	.06	.08	.05	.02	.02	.01
Telephone operators	.44	.18	.07	.27	.19	.07	.45	.33	.39
Misc clerical workers	2.94	2.44	3.60	.45	.69	1.38	2.00	2.12	2.72
Crafts and kindred workers	1.21	.90	.88	1.84	2.17	2.20	3.70	4.02	5.40
Construction crafts workers	.34	.25	.23	.81	.94	.97	2.52	2.77	3.93
Carpenters and apprentices	.16	.12	.07	.38	.38	.17	.99	1.09	1.34
Brick, stonemasons, apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Cement and concrete finishers	.00	.00	.00	.00	.00	.00	.06	.07	.16
Electricians and apprentices	.04	.02	.02	.13	.16	.16	.61	.75	1.30
Excavating, grading mach operatr	.01	.01	.01	.00	.00	.00	.00	.00	.00
Floor layers, exc tile setters	.00	.00	.00	.00	.00	.00	.01	.01	.01
Painters and apprentices	.10	.08	.11	.23	.32	.53	.28	.28	.32
Plasterers and apprentices	.00	.00	.00	.00	.00	.00	.05	.04	.04
Plumbers, pipefitters, apprentices	.02	.02	.01	.06	.08	.11	.53	.53	.77
Blue collar worker supervisors	.39	.31	.26	.27	.33	.24	.35	.39	.46
Mechanics, repairers, installers	.21	.17	.24	.33	.50	.75	.29	.33	.43
Air cond, heating, refig mechs	.02	.02	.02	.04	.06	.06	.03	.05	.08
Auto mechanics and apprentices	.04	.03	.04	.05	.06	.09	.06	.05	.04
Data processing mach repairers	.00	.00	.00	.00	.00	.00	.01	.02	.02
Farm implement mechanics	.00	.00	.00	.00	.00	.00	.01	.01	.02
Heavy equip mech, incl diesel	.04	.04	.08	.17	.26	.30	.10	.12	.18
Household appliance mechanics	.05	.04	.06	.00	.00	.00	.02	.02	.01
Office machine repairers	.01	.01	.01	.00	.00	.00	.01	.01	.04
Radio, television repairers	.03	.02	.01	.00	.00	.00	.01	.01	.02
Other mechanics and apprentices	.03	.03	.03	.06	.12	.30	.03	.03	.01
Printing trade crafts workers	.08	.06	.05	.01	.01	.02	.19	.23	.35
Compositors and typesetters	.04	.02	.01	.01	.01	.02	.09	.11	.20
Press, plate printers, apprentices	.04	.03	.04	.00	.00	.00	.09	.11	.15
Transport, public util craft wkr	.00	.00	.00	.00	.00	.00	.03	.02	.02
Elec pwr line instaler, repairer	.00	.00	.00	.00	.00	.00	.01	.01	.01
Telephone installers, repairers	.00	.00	.00	.00	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Welfare services			Residential welfare services			Nonprofit membership organizations		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.20	.12	.10	.43	.38	.23	.32	.27	.21
Bakers	.00	.00	.00	.08	.06	.02	.03	.02	.01
Cabinetmakers	.04	.02	.01	.00	.00	.00	.01	.02	.02
Carpet installers	.00	.00	.00	.00	.00	.00	.01	.01	.02
Decorators, window dressers	.00	.00	.00	.00	.00	.00	.01	.02	.04
Furniture and wood finishers	.01	.01	.01	.00	.00	.00	.00	.00	.00
Glaziers	.00	.00	.00	.01	.01	.02	.01	.01	.02
Inspectors, other	.03	.02	.01	.02	.02	.02	.06	.05	.01
Motion picture projectionists	.01	.01	.01	.00	.00	.00	.02	.02	.01
Shoe repairers	.01	.00	.01	.01	.01	.03	.00	.00	.00
Stationary engineers	.03	.02	.01	.30	.28	.12	.12	.08	.04
Tailors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Upholsterers	.04	.02	.05	.01	.01	.02	.01	.01	.01
Other crafts workers	.01	.00	.00	.00	.00	.00	.03	.03	.04
Operatives	2.33	1.66	1.77	2.54	2.98	4.29	1.59	1.74	2.31
Operatives, except transport	1.27	1.02	1.44	2.24	2.70	4.23	1.00	1.08	1.24
Semiskilled metalworking	.00	.00	.00	.00	.00	.00	.26	.29	.40
Welders and flamecutters	.00	.00	.00	.00	.00	.00	.26	.29	.40
Semiskilled packing, inspecting	.14	.08	.03	.00	.00	.03	.06	.05	.06
Packer, wrapper, exc meat, prodce	.14	.08	.03	.00	.00	.03	.06	.05	.06
Other operatives, exc transport	1.13	.94	1.41	2.24	2.70	4.21	.69	.74	.78
Asbestos, insulation workers	.00	.00	.00	.00	.00	.00	.03	.06	.08
Surveyors' helpers	.00	.00	.00	.00	.00	.00	.02	.02	.04
Clothing ironers and pressers	.05	.03	.05	.18	.22	.45	.01	.01	.02
Dressmakers, exc factory	.09	.08	.08	.24	.35	.41	.02	.02	.01
Dry wall installers, lathers	.00	.00	.00	.00	.00	.00	.05	.08	.07
Filer, polisher, sander, buffer	.00	.00	.00	.00	.00	.00	.01	.01	.02
Laundry, dry cleang oprs, other	.06	.05	.08	1.21	1.46	2.30	.03	.03	.01
Meat cutters, butchers, exc mfg	.01	.01	.01	.03	.02	.01	.02	.02	.03
Photographic process workers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Sailors and deckhands	.00	.00	.00	.00	.00	.00	.04	.04	.08
Sewers and stitchers	.08	.06	.13	.26	.30	.58	.02	.02	.02
Furnace tendr, stokr, exc metal	.03	.02	.01	.18	.13	.04	.07	.06	.09
Miscellaneous machine operatves	.10	.08	.11	.04	.06	.12	.09	.10	.09
Other operatives, exc transport	.69	.60	.95	.10	.17	.30	.27	.28	.21
Transport equipment operatives	1.06	.64	.33	.30	.28	.05	.59	.66	1.07
Bus drivers	.07	.07	.01	.04	.05	.01	.02	.04	.02
Delivery and route workers	.08	.05	.04	.03	.02	.02	.07	.07	.11
Fork lift, tow motor operatives	.00	.00	.00	.00	.00	.00	.04	.05	.07
Parking attendants	.00	.00	.00	.00	.00	.00	.04	.03	.01
Taxicab drivers, chauffeurs	.21	.14	.05	.17	.15	.02	.08	.08	.08
Truck drivers	.69	.38	.22	.07	.06	.01	.33	.38	.78
Service workers	11.12	14.69	17.03	71.84	62.04	57.63	18.69	14.84	12.52
Cleaning service workers	2.71	1.96	2.39	4.66	5.20	7.34	5.25	4.77	3.77
Lodging qtrs cleaners, exc privt	.19	.07	.08	1.15	.66	.68	.17	.10	.13
Bldg interior cleaners, other	.69	.55	.72	1.31	1.87	3.19	1.34	1.28	.99
Janitors and sextons	1.82	1.34	1.58	2.20	2.68	3.47	3.75	3.39	2.65
Food service workers	.84	.43	.37	6.08	5.52	6.42	9.19	6.34	4.87
Bartenders	.00	.00	.00	.00	.00	.00	2.02	1.68	1.59
Waiters' assistants	.01	.00	.00	.05	.08	.24	.46	.40	.32
Cooks, exc private households	.45	.22	.09	3.56	3.06	1.89	1.86	1.42	1.17
Dishwashers	.09	.04	.10	.38	.34	.83	.87	.49	.33
Food counter, fountain workers	.05	.04	.05	.09	.09	.01	.12	.11	.09
Waiters	.11	.04	.01	.73	.50	.36	3.18	1.80	1.11
Other food serv wkrs, exc privt	.14	.09	.13	1.27	1.45	3.10	.68	.45	.26
Health service workers	1.05	.72	1.00	5.53	6.13	14.85	.13	.12	.22
Dental assistants	.02	.01	.01	.02	.02	.01	.02	.01	.00
Health aides, except nursing	.09	.08	.10	.22	.38	.82	.03	.04	.06
Nursing aides and orderlies	.68	.45	.55	4.13	4.35	10.70	.06	.05	.14
Practical nurses	.26	.18	.35	1.17	1.38	3.32	.03	.02	.02

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Welfare services			Residential welfare services			Nonprofit membership organizations		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Personal service workers	6.22	11.40	13.19	54.99	44.60	28.82	3.72	3.20	3.14
Flight attendants	.00	.00	.00	.00	.00	.00	.03	.03	.07
Attendants, recreation, amusement	.19	.14	.33	.10	.15	.33	.98	.85	.79
Attendants, personal serv, other	.13	.08	.08	.56	.60	.66	.66	.56	.55
Baggage porters and bellhops	.00	.00	.00	.00	.00	.00	.03	.02	.11
Barbers	.02	.00	.01	.06	.01	.03	.09	.01	.01
Child care workers, exc private	2.53	1.22	2.14	52.57	40.55	25.11	1.01	.59	.87
Elevator operators	.04	.02	.01	.02	.03	.03	.11	.09	.04
Hairdressers and cosmetologists	.15	.14	.13	.17	.27	.28	.04	.05	.07
Housekeepers, exc private homes	.22	.12	.07	1.15	1.04	.98	.66	.46	.30
Welfare service aides	2.93	9.68	10.42	.36	1.96	1.40	.12	.52	.32
Protective service workers	.31	.19	.08	.59	.59	.21	.40	.41	.53
Firefighters	.00	.00	.00	.01	.01	.01	.11	.10	.11
Guards	.24	.15	.07	.55	.54	.19	.28	.30	.41
Police and detectives	.07	.03	.01	.04	.04	.01	.01	.01	.01
Laborers, except farm	1.05	.81	1.23	.65	.90	1.45	1.67	1.75	1.78
Animal caretakers, exc farm	.00	.00	.00	.04	.06	.10	.56	.70	.71
Carpenter helpers	.03	.02	.03	.04	.04	.14	.10	.10	.21
Constr labr, exc carpenter help	.03	.02	.02	.01	.01	.01	.34	.27	.13
Freight and material handlers	.54	.41	.70	.03	.04	.07	.20	.20	.23
Garbage collectors	.01	.01	.02	.00	.00	.00	.00	.00	.00
Gardenrs, groundkeepers, exc farm	.14	.14	.22	.36	.52	.76	.21	.25	.29
Stock handlers	.04	.03	.03	.01	.01	.02	.06	.06	.05
Vehicle washers, equip cleaners	.01	.01	.01	.04	.05	.05	.02	.02	.01
Warehouse laborers, other	.06	.04	.02	.02	.02	.02	.02	.02	.02
Other laborers	.18	.13	.19	.11	.14	.28	.16	.14	.14

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Private households			Other professional, related svcs			Engineering, architectrl services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	1.61	2.01	1.72	65.68	66.46	66.50	71.67	68.85	72.23
Engineers, technical	.00	.00	.00	11.07	10.10	10.22	24.46	22.70	23.36
Aeronautical	.00	.00	.00	.15	.15	.10	.15	.17	.17
Chemical	.00	.00	.00	.29	.30	.34	.54	.63	.84
Civil	.00	.00	.00	3.83	3.05	3.13	9.65	7.86	8.10
Electrical	.00	.00	.00	2.01	1.97	1.65	3.86	3.88	3.34
Industrial	.00	.00	.00	.44	.48	.50	.66	.78	.84
Mechanical	.00	.00	.00	1.76	1.76	1.94	4.00	4.15	4.75
Metallurgical	.00	.00	.00	.06	.06	.07	.09	.09	.10
Mining	.00	.00	.00	.06	.06	.09	.15	.15	.24
Petroleum	.00	.00	.00	.06	.06	.08	.16	.15	.19
Sales	.00	.00	.00	.07	.06	.06	.17	.15	.16
Other engineers	.00	.00	.00	2.35	2.15	2.26	5.03	4.69	4.64
Life and physical scientists	.00	.01	.02	1.97	2.15	2.14	.42	.45	.58
Agricultural	.00	.01	.02	.02	.02	.01	.00	.00	.00
Atmospheric and space	.00	.00	.00	.09	.19	.22	.00	.00	.00
Biological	.00	.00	.00	.19	.25	.18	.00	.00	.00
Chemists	.00	.00	.00	.65	.63	.85	.15	.19	.29
Geologists	.00	.00	.00	.40	.38	.37	.20	.19	.25
Marine	.00	.00	.00	.09	.15	.13	.00	.00	.00
Physicists and astronomers	.00	.00	.00	.49	.50	.34	.05	.05	.03
Other life, physical scientists	.00	.00	.00	.05	.04	.03	.02	.02	.01
Mathematical specialists	.00	.00	.00	.32	.36	.39	.07	.08	.08
Actuaries	.00	.00	.00	.13	.17	.23	.00	.00	.00
Mathematicians	.00	.00	.00	.12	.12	.06	.05	.06	.04
Statisticians	.00	.00	.00	.06	.07	.10	.02	.02	.04
Engineering, science technicians	.00	.00	.00	10.60	10.60	12.35	24.14	24.10	26.40
Agricultural, biolgcl, exc health	.00	.00	.00	.03	.03	.03	.00	.00	.00
Chemical technicians	.00	.00	.00	.16	.16	.20	.08	.11	.16
Drafters	.00	.00	.00	6.53	6.10	6.48	16.35	15.62	16.52
Electrical and electronic	.00	.00	.00	.45	.57	.63	.33	.49	.73
Industrial engineering	.00	.00	.00	.01	.03	.06	.02	.04	.10
Mathematical technicians	.00	.00	.00	.00	.01	.02	.01	.01	.04
Mechanical engineering	.00	.00	.00	.04	.05	.09	.02	.03	.05
Surveyors	.00	.00	.00	2.61	2.70	3.10	6.65	7.00	7.96
Other engineering, science tech	.00	.00	.00	.77	.96	1.76	.68	.81	.86
Medical workers, exc technicians	1.06	1.27	1.22	.24	.21	.23	.01	.01	.02
Physicians and osteopaths	.00	.00	.01	.06	.05	.04	.00	.00	.00
Registered nurses	1.05	1.22	1.18	.13	.11	.14	.01	.01	.02
Therapists	.01	.04	.02	.02	.03	.03	.00	.00	.00
Veterinarians	.00	.00	.00	.01	.01	.02	.00	.00	.00
Health technologists, technicians	.00	.00	.00	.19	.23	.24	.02	.04	.03
Clinical lab technologists, tech	.00	.00	.00	.06	.06	.10	.00	.00	.00
Radiologic technologists, tech	.00	.00	.00	.01	.01	.01	.00	.00	.00
Other health technicians	.00	.00	.00	.11	.15	.13	.02	.04	.03
Technicians, except health	.00	.01	.02	.26	.34	.45	.23	.32	.33
Airplane pilots	.00	.01	.02	.02	.02	.02	.03	.04	.04
Tool programmers, numerical	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other technicians except health	.00	.00	.00	.22	.30	.41	.19	.27	.28
Computer specialists	.00	.00	.00	1.74	2.29	2.04	.65	.93	.77
Computer programmers	.00	.00	.00	1.06	1.22	1.05	.41	.50	.34
Computer systems analysts	.00	.00	.00	.57	.86	.85	.17	.30	.33
Other computer specialists	.00	.00	.00	.12	.21	.14	.07	.13	.10
Social scientists	.00	.00	.00	.65	1.23	1.12	.35	.57	.41
Economists	.00	.00	.00	.19	.29	.32	.16	.26	.27
Political scientists	.00	.00	.00	.03	.03	.03	.00	.00	.00
Psychologists	.00	.00	.00	.30	.71	.59	.01	.01	.00
Sociologists	.00	.00	.00	.01	.03	.04	.00	.00	.00
Urban and regional planners	.00	.00	.00	.08	.12	.06	.19	.29	.14
Other social scientists	.00	.00	.00	.04	.05	.06	.00	.00	.00
Teachers	.48	.58	.33	.34	.28	.14	.01	.01	.01
Adult education	.02	.05	.06	.04	.05	.03	.01	.01	.01
Preschool and kindergarten	.06	.09	.06	.01	.01	.03	.00	.00	.00
Other teachers	.40	.44	.21	.30	.22	.09	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Private households			Other professional, related svcs			Engineering, architectrl services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Writers,artists,entertainers	.05	.09	.06	10.43	13.88	10.36	4.93	6.03	4.40
Actors	.00	.00	.00	.01	.01	.01	.00	.00	.00
Athletes and kindred workers	.01	.03	.01	.02	.02	.03	.00	.00	.00
Authors	.00	.00	.00	1.55	2.05	1.53	.12	.16	.16
Designers	.01	.01	.01	1.59	1.82	1.22	3.68	4.37	2.91
Editors and reporters	.00	.00	.00	.31	.28	.13	.12	.10	.02
Musicians and composers	.01	.01	.01	.29	.35	.41	.00	.00	.00
Painters and sculptors	.01	.02	.01	4.69	6.90	5.35	.40	.62	.69
Photographers	.01	.01	.01	.16	.13	.06	.11	.09	.04
Public relations specialists	.00	.00	.00	.17	.19	.18	.15	.21	.19
Radio and tv announcers	.00	.00	.00	.01	.01	.03	.00	.00	.00
Other writers,artists,entertain	.01	.01	.01	1.63	2.11	1.43	.34	.47	.39
Other professional and technical	.02	.05	.08	27.88	24.81	26.83	16.38	13.62	15.85
Accountants	.01	.01	.01	19.88	18.19	19.24	1.10	1.29	.94
Architects	.00	.00	.01	5.70	4.40	5.55	14.50	11.38	14.19
Archivists and curators	.00	.00	.00	.01	.01	.02	.00	.00	.00
Clergy	.00	.01	.01	.10	.06	.06	.00	.00	.00
Religious workers,except clergy	.00	.01	.02	.02	.02	.01	.00	.00	.00
Foresters and conservationists	.00	.00	.00	.01	.01	.01	.02	.02	.01
Lawyers	.00	.00	.00	.15	.20	.07	.04	.05	.01
Librarians	.00	.00	.00	.11	.11	.10	.08	.09	.05
Operations and systems research	.00	.00	.00	.19	.27	.28	.16	.26	.26
Personnel,labor relations wkrs	.00	.00	.00	.28	.30	.22	.25	.30	.21
Other research workers	.00	.00	.01	1.19	.99	1.05	.21	.20	.17
Recreation workers	.00	.00	.00	.03	.05	.04	.01	.02	.01
Social workers	.01	.01	.01	.09	.10	.08	.00	.00	.00
Vocation,education counselors	.00	.00	.01	.09	.09	.09	.00	.00	.00
Managers,officials,proprietors	.02	.04	.05	5.27	5.72	5.46	6.19	7.34	6.00
Buyers,sales,loan managers	.00	.00	.01	.44	.45	.55	.53	.61	.76
Bank,financial managers	.00	.00	.01	.14	.15	.14	.16	.19	.21
Credit managers	.00	.00	.00	.01	.01	.01	.01	.00	.01
Purchasing agents,buyers,other	.00	.00	.00	.17	.18	.25	.26	.28	.39
Sales manager, exc retail trade	.00	.00	.00	.11	.12	.16	.10	.13	.15
Other managers,officials,properts	.02	.03	.04	4.83	5.27	4.91	5.66	6.73	5.24
Mgrs, superintendents, building	.00	.01	.01	.01	.02	.03	.02	.02	.03
Office managers, other	.00	.00	.01	.61	.66	.85	.70	.80	.89
Officers,pilots,pursers,ship	.01	.01	.01	.01	.01	.01	.01	.01	.01
Restaurant,cafe,bar,managers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Other managers, administrators	.01	.01	.01	4.19	4.58	4.01	4.92	5.89	4.30
Sales workers	.01	.01	.02	.47	.46	.60	.31	.38	.61
Advertising agents,sales worker	.00	.00	.00	.03	.03	.04	.01	.02	.04
Other sales workers	.01	.01	.02	.44	.42	.56	.30	.36	.57
Clerical workers	.96	.97	1.02	23.07	22.06	22.45	14.93	16.06	14.69
Stenographrs,typists,secretaries	.88	.79	.85	10.11	9.54	9.70	9.35	9.87	9.34
Legal secretaries	.00	.00	.00	.05	.04	.07	.01	.01	.01
Medical secretaries	.00	.00	.00	.04	.02	.04	.00	.00	.00
Other secretaries	.82	.70	.79	7.91	7.77	8.20	8.19	8.83	8.56
Stenographers	.00	.00	.01	.15	.09	.03	.16	.10	.04
Typists	.06	.09	.05	1.96	1.62	1.36	1.00	.93	.73
Office machine operators	.00	.00	.00	2.67	3.18	2.54	.52	.77	.63
Bookkeeping and billing	.00	.00	.00	.10	.05	.04	.01	.01	.01
Calculating	.00	.00	.00	.07	.05	.04	.01	.01	.01
Computer and peripheral equip	.00	.00	.00	.80	1.80	1.45	.19	.49	.46
Duplicating	.00	.00	.00	.09	.08	.05	.08	.06	.03
Keypunch	.00	.00	.00	1.51	1.14	.90	.21	.18	.10
Tabulating	.00	.00	.00	.03	.01	.01	.00	.00	.00
Other office machine operators	.00	.00	.00	.06	.06	.05	.02	.03	.03

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Private households			Other professional, related srv			Engineering, architectrl services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	.08	.18	.17	10.30	9.34	10.20	5.06	5.42	4.72
Billing clerks	.00	.00	.00	.07	.09	.13	.06	.08	.13
Bookkeepers	.03	.07	.05	5.95	5.05	5.97	1.59	1.63	1.34
Cashiers	.00	.00	.00	.04	.04	.05	.01	.01	.02
Clerical supervisors, other	.00	.00	.00	.27	.33	.40	.15	.20	.23
Counter clerks, exc food	.00	.00	.00	.02	.03	.05	.02	.03	.04
Estimators, investigators, other	.00	.01	.01	.41	.51	.44	.54	.69	.53
Expeditors, production controls	.00	.00	.00	.07	.08	.09	.18	.21	.23
File clerks	.00	.00	.02	.31	.25	.22	.25	.24	.23
Library attendants, assistants	.00	.00	.00	.10	.10	.05	.04	.04	.01
Mail handlers, exc post office	.00	.00	.01	.15	.16	.18	.12	.14	.14
Messengers and office helpers	.00	.01	.01	.12	.12	.10	.16	.19	.18
Payroll, timekeeping clerks	.00	.00	.00	.14	.15	.09	.12	.14	.10
Real estate appraisers	.00	.00	.00	.01	.01	.01	.02	.02	.03
Receptionists	.01	.01	.01	.79	.73	.74	.48	.52	.54
Shipping and receiving clerks	.00	.00	.00	.06	.05	.02	.06	.05	.02
Statistical clerks	.00	.00	.00	.31	.34	.40	.15	.20	.26
Stock clerks and store keepers	.00	.00	.00	.13	.13	.15	.08	.08	.08
Teachers aides, exc monitors	.00	.00	.00	.02	.01	.01	.00	.00	.00
Telephone operators	.00	.00	.01	.15	.08	.03	.14	.09	.03
Misc clerical workers	.03	.08	.05	1.17	1.08	1.05	.89	.87	.59
Crafts and kindred workers	1.46	1.57	1.64	2.41	2.50	2.14	3.54	3.88	3.40
Construction crafts workers	1.37	1.40	1.42	.45	.44	.41	.69	.72	.74
Carpenters and apprentices	1.20	1.04	1.08	.09	.08	.03	.13	.13	.07
Brick, stonemasons, apprentices	.02	.03	.02	.01	.01	.01	.01	.02	.03
Bulldozer operators	.00	.00	.00	.01	.02	.05	.02	.04	.11
Cement and concrete finishers	.00	.01	.01	.01	.01	.02	.01	.01	.04
Electricians and apprentices	.01	.02	.01	.14	.14	.08	.22	.23	.16
Excavating, grading mach operatr	.00	.00	.00	.03	.04	.07	.07	.08	.14
Floor layers, exc tile setters	.01	.01	.01	.00	.00	.00	.00	.00	.00
Painters and apprentices	.11	.24	.19	.07	.08	.10	.06	.07	.09
Paperhangers	.01	.03	.03	.00	.00	.00	.01	.01	.00
Plasterers and apprentices	.01	.01	.01	.00	.00	.00	.00	.00	.00
Plumbers, pipefitters, apprentices	.01	.02	.02	.07	.06	.02	.12	.10	.04
Roofers and slaters	.00	.01	.02	.00	.00	.00	.00	.00	.00
Structural metal craft workers	.00	.00	.00	.02	.02	.03	.04	.04	.07
Tile setters	.00	.01	.01	.00	.00	.00	.00	.00	.00
Blue collar worker supervisors	.00	.01	.01	.36	.36	.26	.52	.59	.47
Metalworkg craft wrkrs, exc mech	.00	.00	.00	.26	.27	.29	.35	.39	.50
Machinists and apprentices	.00	.00	.00	.14	.16	.19	.18	.22	.32
Millwrights	.00	.00	.00	.02	.02	.02	.03	.04	.04
Pattern and mcldmakers	.00	.00	.00	.02	.02	.02	.03	.03	.03
Sheetmetal workers, apprentices	.00	.00	.00	.03	.03	.01	.05	.04	.02
Tool and diemakers, apprentices	.00	.00	.00	.05	.04	.04	.07	.07	.09
Mechanics, repairers, installers	.06	.12	.13	.56	.61	.60	.42	.47	.51
Air cond, heating, refrig mech	.00	.01	.01	.03	.04	.03	.02	.03	.02
Aircraft mechanics	.00	.00	.00	.02	.02	.01	.02	.02	.01
Auto body repairers	.00	.01	.01	.00	.00	.01	.01	.01	.02
Auto mechanics and apprentices	.02	.05	.04	.04	.04	.04	.04	.04	.02
Data processing mach repairers	.00	.00	.00	.21	.24	.23	.04	.06	.11
Heavy equip mech, incl diesel	.01	.01	.02	.12	.14	.17	.13	.17	.22
Household appliance mechanics	.01	.02	.03	.01	.01	.01	.01	.01	.01
Office machine repairers	.00	.00	.00	.02	.01	.01	.00	.00	.00
Radio, television repairers	.00	.01	.01	.06	.04	.01	.10	.05	.00
Other mechanics and apprentices	.01	.02	.01	.07	.08	.09	.05	.07	.09
Printing trade crafts workers	.00	.00	.00	.14	.13	.07	.15	.16	.08
Compositors and typesetters	.00	.00	.00	.06	.05	.02	.06	.06	.03
Photoengravers, lithographers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Press, plate printers, apprentices	.00	.00	.00	.06	.06	.04	.08	.08	.03
Transport, public util craft wrks	.00	.00	.00	.09	.09	.05	.21	.23	.13
Elec pwr line instaler, repairer	.00	.00	.00	.02	.02	.01	.04	.04	.02
Telephone installers, repairers	.00	.00	.00	.01	.01	.00	.02	.02	.01
Telephone line instalr, splicers	.00	.00	.00	.06	.07	.04	.15	.17	.10

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Private households			Other professional, related sv			Engineering, architectural services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.03	.04	.08	.57	.60	.45	1.20	1.33	.97
Bakers	.00	.01	.01	.00	.00	.00	.00	.00	.00
Cabinetmakers	.00	.01	.01	.01	.01	.02	.01	.01	.04
Carpet installers	.00	.01	.01	.00	.00	.00	.00	.00	.00
Crane,derrick,hoist operator	.00	.00	.00	.03	.02	.03	.05	.05	.07
Glaziers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Inspectors, other	.00	.00	.00	.37	.40	.25	.89	1.01	.62
Piano,organ tuners, repairers	.01	.01	.02	.00	.00	.00	.00	.00	.00
Stationary engineers	.00	.00	.02	.12	.11	.11	.22	.22	.24
Other crafts workers	.00	.01	.01	.02	.02	.02	.02	.02	.01
Operatives	.38	.84	.80	1.31	1.27	1.08	2.25	2.32	1.90
Operatives,except transport	.14	.25	.24	1.14	1.13	.97	2.11	2.16	1.73
Semiskilled metalworking	.00	.00	.00	.04	.03	.03	.00	.00	.00
Lathe,milling mach operatives	.00	.00	.00	.01	.01	.01	.00	.00	.00
Welders and flamecutters	.00	.00	.00	.02	.02	.01	.00	.00	.00
Semiskilled packing, inspecting	.00	.00	.01	.03	.02	.01	.00	.00	.00
Packer,wrapper,exc meat,prodce	.00	.00	.01	.03	.02	.01	.00	.00	.00
Other operatives, exc transport	.13	.25	.23	1.08	1.08	.94	2.11	2.16	1.73
Surveyors' helpers	.00	.00	.00	.59	.56	.38	1.50	1.45	.97
Clothing ironers and pressers	.07	.12	.09	.00	.00	.00	.00	.00	.00
Dressmakers, exc factory	.02	.04	.03	.00	.00	.00	.00	.00	.00
Drillers, earth	.00	.00	.00	.02	.02	.04	.04	.06	.10
Filer,polisher,sander,buffer	.00	.01	.01	.00	.00	.00	.00	.00	.00
Oilers,greasers,exc automobiles	.00	.00	.00	.01	.01	.00	.01	.01	.00
Photographic process workers	.00	.00	.00	.18	.16	.10	.27	.26	.15
Sailors and deckhands	.00	.00	.02	.00	.00	.00	.00	.00	.00
Sawyers	.00	.00	.01	.01	.00	.00	.01	.01	.00
Furnace tendr,stokr,exc metal	.00	.00	.01	.02	.01	.01	.01	.01	.01
Miscellaneous machine operatives	.02	.05	.03	.09	.11	.15	.11	.16	.25
Other operatives,exc transport	.01	.02	.01	.16	.19	.24	.15	.20	.26
Transport equipment operatives	.25	.59	.56	.17	.15	.10	.15	.16	.16
Delivery and route workers	.00	.01	.02	.04	.03	.02	.03	.02	.02
Fork lift,tow motor operatives	.00	.00	.00	.01	.01	.02	.01	.02	.04
Taxicab drivers, chauffeurs	.22	.51	.46	.04	.03	.01	.03	.03	.01
Truck drivers	.03	.07	.08	.07	.06	.06	.08	.08	.10
Service workers	85.28	85.19	86.80	1.43	1.16	1.34	.71	.77	.78
Cleaning service workers	.00	.00	.00	.64	.59	.67	.54	.60	.64
Lodging qtrs cleaners,exc privt	.00	.00	.00	.04	.02	.02	.00	.00	.00
Bldg interior cleaners, other	.00	.00	.00	.13	.13	.16	.13	.15	.18
Janitors and sextons	.00	.00	.00	.47	.44	.49	.41	.45	.46
Food service workers	.00	.00	.00	.13	.08	.10	.05	.04	.03
Waiters' assistants	.00	.00	.00	.01	.01	.02	.00	.00	.00
Cooks,exc private households	.00	.00	.00	.04	.02	.02	.01	.01	.02
Dishwashers	.00	.00	.00	.01	.01	.01	.00	.00	.00
Waiters	.00	.00	.00	.04	.02	.01	.03	.02	.01
Other food serv wkrs,exc privt	.00	.00	.00	.03	.03	.04	.00	.00	.00
Health service workers	2.44	1.88	1.79	.23	.16	.28	.01	.02	.03
Dental assistants	.00	.00	.00	.03	.02	.01	.00	.00	.00
Health aides, except nursing	.00	.00	.00	.03	.03	.06	.01	.01	.03
Nursing aides and orderlies	.80	.62	.59	.12	.07	.13	.00	.00	.00
Practical nurses	1.65	1.26	1.20	.05	.04	.08	.00	.00	.00
Personal service workers	.00	.00	.00	.27	.21	.24	.02	.02	.02
Attendants,recreation,amusement	.00	.00	.00	.01	.01	.01	.00	.00	.00
Attendants,personal serv,other	.00	.00	.00	.04	.03	.03	.00	.00	.00
Child care workers, exc private	.00	.00	.00	.18	.10	.15	.00	.00	.00
Housekeepers, exc private homes	.00	.00	.00	.02	.01	.01	.01	.01	.02
Welfare service aides	.00	.00	.00	.01	.05	.04	.00	.00	.00
Protective service workers	.00	.00	.00	.15	.13	.06	.10	.10	.06
Guards	.00	.00	.00	.13	.11	.05	.10	.10	.06
Police and detectives	.00	.00	.00	.02	.01	.01	.00	.00	.00
Private household workers	82.83	83.31	85.01	.00	.00	.00	.00	.00	.00
Child care workers	31.28	34.81	31.94	.00	.00	.00	.00	.00	.00
Cooks	2.19	1.58	2.51	.00	.00	.00	.00	.00	.00
Housekeepers	6.46	8.45	5.98	.00	.00	.00	.00	.00	.00
Launderers	.73	.50	.27	.00	.00	.00	.00	.00	.00
Cleaners and servants	42.18	37.97	44.31	.00	.00	.00	.00	.00	.00

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Private households			Other professional, related srv			Engineering, architectrl services		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Laborers, except farm	10.28	9.37	7.95	.36	.37	.44	.40	.41	.40
Animal caretakers, exc farm	.03	.08	.07	.11	.12	.17	.00	.00	.00
Carpenter helpers	.01	.02	.02	.03	.02	.02	.06	.05	.04
Constr labr, exc carpenter helpr	.03	.05	.04	.06	.06	.07	.13	.14	.15
Freight and material handlers	.00	.00	.00	.02	.02	.05	.02	.03	.07
Gardens, groundkeepers, exc farm	10.14	9.06	7.63	.06	.07	.06	.08	.07	.06
Timbercutting, logging workers	.00	.00	.01	.00	.00	.00	.00	.00	.00
Stock handlers	.00	.00	.00	.01	.01	.02	.01	.01	.04
Vehicle washers, equip cleaners	.01	.02	.01	.01	.01	.01	.01	.02	.01
Warehouse labcrers, other	.00	.00	.00	.01	.01	.00	.01	.00	.00
Other laborers	.07	.15	.16	.05	.04	.04	.09	.07	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Accounting, auditing services			Misc professional services			Government, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	57.90	57.32	58.22	67.73	74.43	69.22	16.78	19.26	21.30
Engineers, technical	.77	.70	.47	5.36	4.48	4.13	2.53	2.16	2.44
Aeronautical	.00	.00	.00	.35	.31	.13	.13	.14	.23
Chemical	.00	.00	.00	.31	.20	.08	.03	.03	.03
Civil	.04	.02	.01	.36	.22	.10	.68	.54	.55
Electrical	.08	.08	.05	1.94	1.69	1.32	.51	.44	.50
Industrial	.36	.37	.25	.20	.22	.34	.44	.41	.42
Mechanical	.02	.01	.01	.84	.65	.42	.26	.22	.25
Metallurgical	.00	.00	.00	.10	.10	.13	.02	.02	.04
Mining	.00	.00	.00	.00	.00	.00	.01	.01	.01
Petroleum	.00	.00	.00	.01	.01	.01	.01	.01	.00
Other engineers	.27	.21	.16	1.25	1.07	1.59	.44	.35	.42
Life and physical scientists	.00	.00	.00	7.21	7.10	7.24	.75	.85	.96
Agricultural	.00	.00	.00	.06	.07	.05	.11	.14	.18
Atmospheric and space	.00	.00	.00	.35	.67	.83	.09	.14	.11
Biological	.00	.00	.00	.77	.90	.68	.15	.23	.26
Chemists	.00	.00	.00	2.35	1.98	2.80	.18	.16	.23
Geologists	.00	.00	.00	1.29	1.12	1.03	.06	.05	.06
Marine	.00	.00	.00	.36	.53	.50	.03	.04	.05
Physicists and astronomers	.00	.00	.00	1.88	1.71	1.24	.11	.09	.07
Other life, physical scientists	.00	.00	.00	.15	.13	.09	.01	.01	.01
Mathematical specialists	.03	.04	.04	1.11	1.13	1.29	.22	.20	.19
Actuaries	.00	.00	.00	.52	.62	.86	.00	.00	.00
Mathematicians	.01	.01	.01	.39	.34	.16	.07	.08	.08
Statisticians	.02	.03	.03	.19	.17	.27	.14	.12	.11
Engineering, science technicians	.21	.20	.14	4.82	4.97	8.23	1.65	1.63	1.84
Agricultural, biologcl, exc health	.00	.00	.00	.12	.10	.10	.10	.10	.14
Chemical technicians	.00	.00	.00	.51	.43	.52	.03	.03	.02
Drafters	.10	.08	.06	.74	.54	.47	.38	.35	.50
Electrical and electronic	.08	.09	.06	1.18	1.26	1.25	.55	.57	.64
Industrial engineering	.00	.00	.00	.02	.04	.07	.02	.03	.04
Mathematical technicians	.00	.00	.00	.01	.01	.02	.01	.01	.01
Mechanical engineering	.00	.00	.00	.13	.15	.28	.01	.01	.01
Surveyors	.02	.01	.01	.14	.13	.15	.21	.20	.11
Other engineering, science teca	.02	.02	.01	1.98	2.32	5.38	.34	.34	.36
Medical workers, exc technicians	.04	.03	.01	.88	.68	.84	.42	.49	.78
Chiropractors	.00	.00	.00	.00	.01	.00	.00	.00	.00
Dentists	.00	.00	.00	.04	.02	.01	.02	.02	.02
Dietitians	.00	.00	.00	.03	.02	.01	.02	.02	.04
Optometrists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Pharmacists	.00	.00	.00	.02	.01	.01	.01	.01	.05
Physicians and osteopaths	.00	.00	.00	.23	.17	.14	.08	.09	.21
Registered nurses	.04	.03	.01	.44	.32	.49	.17	.18	.22
Therapists	.00	.00	.00	.08	.09	.11	.09	.13	.11
Veterinarians	.00	.00	.00	.02	.03	.06	.03	.05	.13
Health technologists, technicians	.00	.00	.00	.72	.77	.87	.07	.08	.24
Clinical lab technologists, tech	.00	.00	.00	.25	.23	.37	.04	.03	.07
Radiologic technologists, teca	.00	.00	.00	.05	.05	.04	.00	.01	.00
Other health technicians	.00	.00	.00	.40	.49	.46	.02	.03	.16
Technicians, except health	.02	.03	.02	.64	.75	1.18	1.31	1.45	1.58
Airplane pilots	.00	.00	.00	.02	.02	.02	.06	.07	.14
Air traffic controllers	.00	.00	.00	.00	.00	.00	.59	.54	.56
Flight engineers	.00	.00	.00	.03	.02	.01	.01	.00	.00
Radio operators	.00	.00	.00	.02	.02	.01	.41	.53	.74
Tool programers, numerical	.00	.00	.00	.02	.01	.01	.01	.01	.01
Other technicians except health	.02	.03	.02	.55	.68	1.13	.25	.29	.12
Computer specialists	3.10	4.34	3.63	1.45	1.64	1.78	.75	.93	1.21
Computer programers	1.81	2.22	1.83	.95	.96	1.05	.43	.49	.62
Computer systems analysts	1.10	1.77	1.60	.40	.52	.62	.29	.39	.51
Other computer specialists	.19	.35	.20	.10	.16	.12	.03	.04	.08
Social scientists	.15	.23	.15	1.84	3.36	3.43	.56	.80	.89
Economists	.15	.23	.15	.31	.38	.63	.22	.30	.29
Political scientists	.00	.00	.00	.10	.09	.12	.01	.02	.04
Psychologists	.00	.00	.00	1.18	2.54	2.25	.05	.12	.14
Sociologists	.00	.00	.00	.06	.12	.17	.01	.02	.04
Urban and regional planners	.00	.00	.00	.04	.04	.03	.15	.24	.31
Other social scientists	.00	.00	.00	.16	.18	.24	.12	.10	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Accounting, auditing services			Misc professionl services			Government, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Teachers	.04	.05	.03	1.29	.92	.48	.30	.24	.13
Adult education	.04	.05	.03	.08	.09	.06	.11	.11	.07
Preschool and kindergarten	.00	.00	.00	.02	.03	.10	.01	.01	.02
Other teachers	.00	.00	.00	1.18	.80	.33	.18	.11	.03
Writers,artists,entertainers	.24	.28	.19	33.59	41.29	32.51	.71	.86	1.38
Actors	.00	.00	.00	.04	.05	.05	.00	.00	.00
Athletes and kindred workers	.00	.00	.00	.08	.08	.10	.03	.04	.12
Authors	.02	.02	.02	5.97	7.12	5.53	.04	.06	.12
Designers	.07	.08	.04	.57	.49	.32	.04	.06	.12
Editors and reporters	.07	.07	.05	.98	.79	.40	.17	.19	.23
Musicians and compcers	.00	.00	.00	1.16	1.26	1.54	.01	.01	.01
Painters and sculptors	.00	.00	.00	18.04	23.93	19.21	.08	.09	.14
Photographers	.01	.01	.02	.44	.32	.13	.10	.09	.14
Public relations specialists	.04	.05	.05	.37	.34	.33	.15	.21	.36
Radio and tv announcers	.00	.00	.00	.04	.04	.09	.00	.00	.00
Other writers,artists,entertain	.04	.05	.02	5.92	6.88	4.81	.09	.11	.14
Other professional and technical	53.29	51.42	53.55	8.82	7.35	7.23	7.53	9.57	9.69
Accountants	52.57	50.55	52.99	1.48	1.45	.91	2.54	2.95	3.07
Architects	.08	.05	.04	.29	.23	.36	.09	.06	.13
Archivists and curators	.00	.00	.00	.04	.04	.06	.02	.02	.01
Clergy	.00	.00	.00	.39	.22	.23	.02	.02	.03
Religious workers,except clergy	.00	.00	.00	.10	.06	.03	.00	.00	.00
Farm management advisors	.00	.00	.00	.02	.01	.02	.01	.01	.01
Foresters and conservationists	.00	.00	.00	.01	.02	.01	.31	.34	.40
Home management advisors	.00	.00	.00	.01	.01	.01	.01	.01	.01
Judges	.00	.00	.00	.00	.00	.00	.32	.37	.34
Lawyers	.20	.31	.16	.26	.27	.05	.93	1.77	1.81
Librarians	.04	.04	.04	.27	.22	.26	.10	.10	.10
Operations and systems research	.11	.16	.11	.34	.43	.53	.29	.34	.38
Personnel,labor relations wkrs	.24	.26	.17	.40	.36	.30	1.38	1.54	1.76
Other research workers	.04	.04	.04	4.37	3.22	3.67	.32	.24	.08
Recreation workers	.00	.00	.00	.11	.15	.15	.24	.44	.40
Social workers	.00	.00	.00	.38	.36	.31	.79	1.19	1.02
Vocation,education counselors	.00	.00	.00	.36	.32	.35	.17	.19	.15
Managers,officials,proprietors	3.95	4.56	5.13	5.75	4.95	5.12	11.08	10.69	10.63
Buyers,sales,loan managers	.31	.32	.27	.47	.40	.63	.57	.49	.54
Bank,financial managers	.13	.13	.07	.14	.11	.14	.04	.04	.05
Credit managers	.02	.01	.01	.01	.00	.01	.00	.00	.00
Purchasing agents,buyers,other	.02	.02	.03	.24	.22	.33	.50	.42	.46
Sales manager, exc retail trade	.14	.15	.16	.09	.07	.15	.03	.03	.03
Administrators,public inspectors	.00	.00	.00	.00	.00	.00	10.19	9.83	9.58
Assess,control,local pub admin	.00	.00	.00	.00	.00	.00	.70	.76	.67
Construction inspector,public	.00	.00	.00	.00	.00	.00	.49	.40	.51
Inspectors,exc construct,public	.00	.00	.00	.00	.00	.00	2.09	1.95	2.05
Officials,administrators,public	.00	.00	.00	.00	.00	.00	6.09	6.12	5.68
Postmasters,mail supervisors	.00	.00	.00	.00	.00	.00	.82	.61	.67
Other managers,officials,properts	3.65	4.24	4.86	5.28	4.56	4.49	.31	.37	.51
Mgrs, superintendents, building	.00	.00	.00	.03	.03	.05	.05	.07	.11
Office managers, other	.67	.79	1.01	.39	.31	.58	.24	.27	.38
Officers,pilots,pursers,ship	.00	.00	.00	.02	.01	.02	.01	.01	.01
Restaurant,cafe,bar,managers	.01	.01	.01	.02	.02	.02	.01	.01	.00
Other managers, administrators	2.97	3.44	3.84	4.83	4.19	3.82	.01	.01	.01
Sales workers	.48	.46	.34	.70	.55	.91	.10	.08	.03
Advertising agents,sales worker	.04	.05	.04	.04	.04	.04	.00	.00	.00
Other sales wrkrs	.44	.41	.31	.66	.51	.87	.10	.08	.03
Clerical workers	36.32	36.21	35.17	16.44	12.85	16.78	39.26	35.46	33.73
Stenographrs,typists,secretaries	11.76	11.59	10.46	8.90	6.56	9.22	9.84	9.33	10.96
Legal secretaries	.04	.04	.05	.13	.09	.18	.15	.14	.20
Medical secretaries	.01	.01	.02	.14	.07	.15	.02	.01	.01
Other secretaries	8.32	8.70	8.37	6.90	5.18	7.46	4.55	4.76	7.03
Stenographers	.14	.08	.02	.16	.07	.02	.91	.59	.40
Typists	3.25	2.77	2.01	1.57	1.15	1.41	4.21	3.83	3.33

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Accounting, auditing, services			Misc professional services			Government, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Office machine operators	6.01	7.44	5.64	1.13	1.23	1.19	1.41	1.56	1.35
Bookkeeping and billing	.25	.13	.09	.02	.01	.01	.05	.03	.01
Calculating	.17	.13	.09	.01	.00	.01	.02	.02	.01
Computer and peripheral equip	1.72	4.15	3.14	.41	.70	.66	.35	.74	.93
Duplicating	.11	.09	.05	.09	.08	.08	.04	.03	.02
Key punch	3.58	2.81	2.17	.52	.38	.38	.82	.62	.26
Tabulating	.07	.02	.02	.02	.01	.00	.02	.01	.00
Other office machine operators	.10	.11	.08	.07	.05	.05	.12	.12	.12
Other clerical workers	18.56	17.17	19.07	6.41	5.06	6.37	28.01	24.57	21.42
Billing clerks	.11	.14	.19	.03	.03	.04	.06	.06	.08
Bookkeepers	13.78	12.20	14.79	1.33	.94	.94	1.67	1.72	1.14
Cashiers	.03	.04	.05	.09	.07	.11	.26	.30	.31
Clerical supervisors, other	.36	.47	.50	.33	.35	.53	1.32	1.37	.92
Collectors, bill and account	.01	.01	.02	.01	.01	.01	.02	.02	.01
Counter clerks, exc food	.03	.04	.03	.04	.04	.09	.06	.07	.11
Dispatchers, starters, vehicle	.01	.02	.02	.01	.01	.01	.12	.13	.13
Enumerators and interviewers	.00	.00	.00	.00	.00	.00	1.11	.93	.24
Estimators, investigators, other	.37	.50	.45	.26	.26	.31	1.01	1.13	1.81
Expeditors, production controls	.00	.00	.00	.00	.00	.00	.38	.36	.42
File clerks	.41	.33	.21	.24	.16	.20	1.12	.96	.90
Insurance adjusters, examiners	.00	.00	.00	.00	.00	.00	.04	.06	.06
Library attendants, assistants	.08	.09	.06	.24	.20	.09	.05	.07	.05
Mail carriers, post office	.00	.00	.00	.00	.00	.00	6.29	4.88	4.37
Mail handlers, exc post office	.14	.16	.18	.22	.18	.25	.30	.29	.26
Messengers and office helpers	.11	.09	.06	.06	.05	.03	.08	.08	.09
Payroll, timekeeping clerks	.20	.21	.13	.10	.07	.03	.36	.41	.46
Postal clerks	.00	.00	.00	.00	.00	.00	7.39	5.18	3.53
Real estate appraisers	.00	.00	.00	.00	.00	.00	.12	.15	.11
Receptionists	1.20	1.17	.96	.68	.48	.74	.37	.38	.49
Shipping and receiving clerks	.03	.02	.02	.11	.06	.03	.18	.15	.13
Statistical clerks	.31	.36	.34	.55	.51	.69	1.12	1.30	1.33
Stock clerks and store keepers	.07	.07	.06	.28	.26	.37	1.03	.77	.67
Teachers aides, exc monitors	.00	.00	.00	.07	.05	.04	.04	.03	.02
Telephone operators	.11	.07	.03	.22	.09	.04	.27	.18	.07
Weighers	.00	.00	.00	.01	.01	.01	.03	.04	.04
Misc clerical workers	1.20	1.19	.99	1.57	1.24	1.81	3.24	3.55	3.71
Crafts and kindred workers	.86	.97	.73	2.93	2.50	2.19	6.76	6.56	6.08
Construction crafts workers	.01	.01	.00	.70	.57	.48	1.68	1.60	1.63
Carpenters and apprentices	.00	.00	.00	.15	.10	.03	.36	.37	.37
Brick, stonemasons, apprentices	.00	.00	.00	.01	.01	.01	.03	.02	.01
Bulldozer operators	.00	.00	.00	.01	.01	.02	.08	.07	.08
Cement and concrete finishers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Electricians and apprentices	.01	.00	.00	.23	.18	.09	.48	.46	.44
Excavating, grading mach operatr	.00	.00	.00	.02	.03	.05	.15	.15	.24
Painters and apprentices	.00	.00	.00	.18	.17	.25	.34	.30	.19
Plumbers, pipefitters, apprentices	.00	.00	.00	.09	.06	.03	.22	.21	.27
Blue collar worker supervisors	.17	.17	.10	.38	.30	.17	.88	1.01	.87
Metalworkg craft wrkrs, exc mech	.00	.00	.00	.50	.43	.39	.46	.39	.36
Boilermakers	.00	.00	.00	.01	.00	.00	.01	.01	.00
Job and die setters, metal	.00	.00	.00	.01	.01	.01	.00	.00	.00
Machinists and apprentices	.00	.00	.00	.29	.27	.27	.23	.21	.17
Millwrights	.00	.00	.00	.02	.02	.01	.01	.01	.00
Pattern and moldmakers	.00	.00	.00	.05	.04	.04	.02	.02	.06
Sheetmetal workers, apprentices	.00	.00	.00	.05	.04	.02	.15	.11	.11
Tool and diemakers, apprentices	.00	.00	.00	.08	.05	.04	.03	.02	.01
Mechanics, repairers, installers	.59	.69	.57	.74	.71	.77	3.09	2.95	2.58
Air cond, heating, refrig mech	.00	.00	.00	.07	.08	.07	.14	.19	.24
Aircraft mechanics	.00	.00	.00	.04	.03	.01	.77	.66	.30
Auto body repairers	.00	.00	.00	.00	.00	.00	.02	.01	.03
Auto mechanics and apprentices	.00	.00	.00	.07	.07	.12	.73	.67	.60
Data processing mach repairers	.50	.60	.51	.04	.04	.05	.03	.03	.06
Farm implement mechanics	.00	.00	.00	.01	.01	.01	.00	.00	.00
Heavy equip mech, incl diesel	.03	.04	.03	.22	.22	.27	.56	.67	.91
Household appliance mechanics	.00	.00	.00	.01	.01	.01	.06	.06	.04
Office machine repairers	.03	.02	.02	.01	.01	.01	.02	.02	.03
Radio, television repairers	.00	.00	.00	.09	.07	.03	.37	.28	.14
Other mechanics and apprentices	.01	.01	.01	.18	.18	.20	.39	.36	.24

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Accounting, auditing, services			Misc professionl services			Government, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Printing trade crafts workers	.08	.08	.05	.20	.15	.09	.16	.18	.24
Bookbinders	.01	.01	.01	.00	.00	.00	.01	.01	.01
Compositors and typesetters	.03	.02	.01	.10	.06	.03	.06	.07	.13
Engravers exc photoengravers	.00	.00	.00	.02	.02	.01	.01	.01	.01
Photoengravers, lithographers	.00	.00	.00	.01	.01	.01	.01	.01	.02
Press,plate printers,aprentices	.04	.05	.03	.07	.06	.04	.07	.09	.08
Transport,public util craft wkrs	.00	.00	.00	.02	.02	.01	.09	.08	.10
Elec pwr line instaler,repairer	.00	.00	.00	.01	.01	.01	.02	.02	.02
Power station operators	.00	.00	.00	.00	.00	.00	.01	.01	.03
Telephone installers,repairers	.00	.00	.00	.00	.00	.00	.05	.04	.04
Other crafts, kindred workers	.02	.02	.02	.39	.32	.28	.41	.35	.29
Bakers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Cabinetmakers	.00	.00	.00	.01	.01	.01	.01	.01	.04
Crane,derrick,hoist operator	.00	.00	.00	.02	.02	.01	.06	.05	.07
Decorators, window dressers	.00	.00	.00	.01	.02	.02	.00	.00	.00
Dental laboratory technicians	.00	.00	.00	.02	.01	.03	.01	.01	.01
Glaziers	.00	.00	.00	.02	.02	.04	.00	.00	.00
Inspectors, other	.01	.01	.01	.08	.06	.03	.00	.00	.00
Motion picture projectionists	.00	.00	.00	.01	.01	.01	.00	.00	.00
Opticians,lens grinder,polisher	.00	.00	.00	.02	.02	.01	.00	.00	.00
Sign painters and letterers	.00	.00	.00	.00	.00	.00	.02	.02	.01
Stationary engineers	.01	.01	.01	.13	.10	.07	.22	.18	.13
Other crafts workers	.01	.00	.00	.04	.05	.04	.05	.05	.01
Operatives	.17	.17	.12	1.50	1.21	1.15	2.70	2.97	2.42
Operatives,except transport	.09	.09	.08	1.18	.99	1.05	1.22	1.17	.94
Semiskilled metalworking	.00	.00	.00	.14	.12	.10	.21	.19	.20
Lathe,milling mach operatives	.00	.00	.00	.04	.03	.03	.02	.01	.00
Metal platers	.00	.00	.00	.01	.01	.01	.03	.03	.02
Solderers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Welders and flamecutters	.00	.00	.00	.07	.06	.04	.14	.14	.16
Semiskilled packing, inspectinj	.00	.00	.00	.11	.06	.03	.19	.15	.16
Packer,wrapper,exc meat,prodce	.00	.00	.00	.11	.06	.03	.19	.15	.16
Other operatives, exc transport	.09	.09	.08	.93	.81	.91	.83	.83	.58
Asbestos,insulation workers	.00	.00	.00	.01	.01	.02	.00	.00	.00
Blasters	.00	.00	.00	.01	.01	.01	.01	.01	.01
Surveyors' helpers	.00	.00	.00	.03	.03	.02	.03	.03	.03
Clothing ironers and pressers	.00	.00	.00	.01	.01	.01	.01	.01	.00
Dressmakers, exc factory	.00	.00	.00	.00	.00	.00	.03	.02	.01
Garage wrkr,gas station atten	.00	.00	.00	.00	.00	.00	.06	.04	.02
Laundry,dry cleany oprs,other	.00	.00	.00	.02	.01	.02	.03	.02	.01
Meat cutters,lutchers,exc mfg	.00	.00	.00	.00	.00	.00	.03	.03	.02
Oilers,greasers,exc automobiles	.00	.00	.00	.01	.01	.01	.02	.02	.02
Painters, mfg articles	.00	.00	.00	.01	.01	.01	.00	.00	.01
Photographic process workers	.05	.04	.02	.24	.18	.11	.06	.06	.07
Sailors and deckhands	.00	.00	.00	.01	.01	.01	.01	.01	.01
Sewers and stitchers	.00	.00	.00	.01	.01	.01	.01	.01	.01
Furnace tendr,stokr,exc metal	.00	.00	.00	.06	.03	.01	.12	.13	.05
Miscellaneous machine operatves	.00	.00	.00	.17	.17	.22	.14	.15	.05
Other operatives,exc transport	.04	.05	.06	.35	.34	.44	.26	.29	.25
Transport equipment operatives	.09	.08	.04	.32	.22	.10	1.48	1.80	1.49
Bus drivers	.00	.00	.00	.03	.03	.01	.05	.08	.01
Delivery and route workers	.04	.04	.03	.07	.03	.02	.03	.02	.00
Fork lift,tow motor operatives	.00	.00	.00	.01	.02	.02	.15	.18	.18
Parking attendants	.00	.00	.00	.00	.00	.00	.02	.02	.00
Taxicab drivers, chauffeurs	.02	.02	.01	.08	.05	.01	.16	.16	.09
Truck drivers	.02	.02	.01	.13	.09	.06	1.06	1.33	1.18
Service workers	.29	.29	.24	4.15	2.77	3.62	20.10	21.32	23.01
Cleaning service workers	.21	.21	.16	1.42	1.03	1.37	2.41	2.44	2.25
Lodging qtrs cleaners,exc privt	.00	.00	.00	.16	.05	.06	.03	.02	.02
Bldg interior cleaners, other	.07	.07	.06	.23	.19	.25	.32	.35	.43
Janitors and sextons	.15	.14	.11	1.03	.79	1.06	2.05	2.08	1.81

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Accounting, auditing services			Misc professionl services			Government, total		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Food service workers	.04	.03	.04	.41	.21	.30	.45	.35	.32
Waiters' assistants	.00	.00	.00	.02	.02	.06	.01	.01	.02
Cooks,exc private households	.01	.01	.01	.12	.05	.03	.23	.19	.15
Dishwashers	.00	.00	.00	.04	.02	.04	.02	.01	.01
Food counter,fountain workers	.00	.00	.00	.01	.01	.03	.03	.03	.04
Waiters	.01	.01	.01	.10	.03	.01	.07	.05	.05
Other food serv wkrs,exc privt	.01	.01	.02	.12	.08	.14	.09	.06	.03
Health service workers	.02	.02	.02	.88	.54	.97	.17	.16	.28
Dental assistants	.00	.00	.00	.13	.07	.05	.01	.01	.01
Health aides, except nursing	.00	.00	.00	.12	.10	.16	.03	.03	.03
Nursing aides and orderlies	.01	.01	.01	.44	.24	.47	.09	.09	.21
Practical nurses	.01	.01	.01	.20	.13	.28	.04	.04	.03
Personal service workers	.01	.01	.00	1.03	.71	.87	.57	.69	.87
Attendants,recreation,amusement	.00	.00	.00	.06	.04	.04	.11	.11	.46
Attendants, personal serv, other	.00	.00	.00	.14	.11	.12	.06	.05	.09
Barbers	.00	.00	.00	.00	.00	.00	.03	.01	.02
Child care workers, exc private	.00	.00	.00	.70	.36	.56	.19	.14	.14
Elevator operators	.00	.00	.00	.01	.01	.01	.07	.07	.05
Hairdressers and cosmetologists	.00	.00	.00	.00	.00	.00	.01	.01	.01
Housekeepers, exc private homes	.01	.00	.00	.08	.03	.02	.05	.04	.05
Welfare service aides	.00	.00	.00	.05	.17	.13	.06	.27	.06
Protective service workers	.02	.02	.02	.41	.29	.12	16.50	17.69	19.29
Crossing guards,bridgetenders	.00	.00	.00	.00	.00	.00	.86	.78	.71
Firefighters	.00	.00	.00	.03	.02	.02	4.10	4.25	4.42
Guards	.01	.01	.01	.34	.23	.10	1.99	2.45	3.35
Marshals and constables	.00	.00	.00	.00	.00	.00	.14	.16	.17
Police and detectives	.01	.01	.01	.05	.03	.01	8.48	8.85	9.39
Sheriffs and bailiffs	.00	.00	.00	.00	.00	.00	.94	1.20	1.26
Laborers, except farm	.02	.03	.04	.80	.75	1.02	3.22	3.66	2.79
Animal caretakers, exc farm	.00	.00	.00	.44	.44	.64	.12	.16	.17
Carpenter helpers	.00	.00	.00	.01	.01	.02	.02	.02	.04
Constr labr,exc carpenter helper	.00	.00	.00	.04	.04	.04	.18	.18	.15
Freight and material handlers	.01	.01	.02	.02	.03	.05	.78	.99	.57
Gardenrs,groundkeepers,exc farm	.01	.01	.01	.13	.13	.14	1.38	1.64	1.41
Longshore workers, stevedores	.00	.00	.00	.00	.00	.00	.01	.01	.02
Stock handlers	.01	.01	.01	.03	.02	.02	.07	.06	.01
Vehicle washers,equip cleaners	.00	.00	.00	.02	.02	.03	.04	.04	.01
Warehouse laborers, other	.00	.00	.00	.03	.03	.01	.40	.36	.17
Other laborers	.00	.00	.00	.08	.05	.09	.22	.20	.23

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Federal public administrtn			Postal services			Federal pub admin,exc post office		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	19.32	22.08	26.75	.91	1.61	2.03	27.79	30.83	36.23
Engineers,technical	3.68	3.54	4.55	.12	.16	.16	5.31	4.98	6.23
Aeronautical	.25	.30	.57	.00	.00	.00	.36	.43	.78
Chemical	.05	.05	.07	.00	.00	.00	.08	.08	.10
Civil	.56	.41	.47	.01	.01	.01	.81	.58	.64
Electrical	.89	.88	1.10	.02	.03	.04	1.29	1.24	1.50
Industrial	.73	.79	.94	.05	.06	.03	1.05	1.09	1.29
Mechanical	.45	.43	.57	.02	.03	.04	.65	.61	.77
Metallurgical	.03	.04	.10	.00	.00	.00	.05	.06	.13
Mining	.02	.02	.01	.00	.00	.00	.03	.02	.01
Petroleum	.01	.01	.01	.00	.00	.00	.02	.01	.01
Other engineers	.68	.61	.73	.02	.03	.04	.99	.86	1.00
Life and physical scientists	1.11	1.40	1.59	.00	.00	.00	1.62	2.00	2.19
Agricultural	.14	.19	.31	.00	.00	.00	.21	.27	.42
Atmospheric and space	.17	.30	.26	.00	.00	.00	.25	.43	.36
Biological	.16	.27	.34	.00	.00	.00	.24	.39	.47
Chemists	.28	.27	.28	.00	.00	.00	.40	.38	.38
Geologists	.08	.07	.11	.00	.00	.00	.12	.10	.16
Marine	.06	.08	.10	.00	.00	.00	.09	.12	.14
Physicists and astronomers	.21	.20	.17	.00	.00	.00	.31	.29	.24
Other life,physical scientists	.01	.01	.02	.00	.00	.00	.02	.02	.02
Matnemtical specialists	.34	.36	.41	.00	.00	.00	.50	.52	.57
Mathematicians	.13	.17	.20	.00	.00	.00	.19	.24	.28
Statisticians	.21	.20	.21	.00	.00	.00	.30	.28	.30
Engineering,science technicians	2.14	2.36	3.16	.05	.08	.10	3.10	3.34	4.34
Agricultural,biologcl,exc health	.14	.17	.23	.00	.00	.00	.21	.24	.32
Chemical technicians	.03	.03	.02	.00	.00	.00	.05	.04	.03
Drafters	.34	.31	.45	.02	.03	.05	.49	.43	.60
Electrical and electronic	.99	1.18	1.56	.02	.03	.01	1.44	1.68	2.15
Industrial engineering	.04	.06	.09	.00	.00	.00	.06	.08	.12
Mathematical technicians	.01	.01	.01	.00	.00	.00	.02	.02	.01
Mechanical engineering	.01	.02	.02	.00	.00	.00	.02	.02	.03
Surveyors	.12	.11	.11	.00	.00	.00	.17	.15	.15
Other engineering,science tech	.44	.48	.68	.01	.02	.04	.64	.68	.93
Medical workers,exc technicians	.40	.46	.92	.05	.09	.19	.55	.61	1.20
Dentists	.02	.01	.01	.00	.00	.00	.03	.02	.01
Dietitians	.02	.01	.05	.00	.00	.00	.03	.02	.07
Pharmacists	.01	.01	.07	.00	.00	.00	.02	.02	.10
Physicians and osteopaths	.10	.12	.25	.01	.02	.02	.14	.16	.34
Registered nurses	.17	.18	.23	.04	.08	.17	.23	.22	.26
Therapists	.03	.05	.04	.00	.00	.00	.05	.07	.05
Veterinarians	.04	.08	.28	.00	.00	.00	.06	.11	.39
Health technolcists,technicians	.09	.10	.06	.00	.00	.00	.13	.14	.08
Clinical lab technologists,tech	.04	.04	.03	.00	.00	.00	.06	.06	.04
Dental hygienists	.01	.01	.01	.00	.00	.00	.01	.01	.01
Health record technologist,tech	.01	.01	.00	.00	.00	.00	.01	.01	.00
Radiologic technologists,teca	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other health technicians	.03	.04	.01	.00	.00	.00	.05	.06	.02
Technicians,except health	1.59	1.76	1.74	.02	.03	.04	2.31	2.50	2.40
Airplane pilots	.07	.09	.22	.00	.00	.00	.10	.13	.31
Air traffic controllers	1.11	1.20	1.39	.00	.00	.00	1.61	1.71	1.93
Flight engineers	.01	.00	.00	.00	.00	.00	.01	.01	.01
Radio operators	.05	.05	.04	.00	.00	.00	.07	.07	.06
Tool programers,numerical	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other technicians except health	.35	.42	.07	.02	.03	.04	.51	.59	.09
Computer specialists	1.03	1.34	1.63	.04	.09	.13	1.48	1.87	2.20
Computer programers	.57	.67	.81	.02	.04	.07	.82	.94	1.10
Computer systems analysts	.42	.61	.65	.02	.05	.07	.61	.86	.87
Other computer specialists	.04	.05	.17	.00	.00	.00	.06	.07	.23
Social scientists	.64	.85	.83	.01	.03	.03	.93	1.21	1.14
Economists	.34	.50	.50	.01	.02	.01	.48	.71	.68
Political scientists	.01	.03	.08	.00	.00	.00	.02	.04	.11
Psychologists	.05	.11	.09	.00	.00	.00	.07	.16	.13
Sociologists	.01	.01	.01	.00	.00	.00	.01	.02	.02
Urban and regional planners	.02	.02	.09	.00	.00	.00	.03	.03	.12
Other social scientists	.22	.18	.06	.00	.01	.02	.32	.25	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Federal public administrtrtn			Postal services			Federal pub admin,exc post office		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Teachers	.28	.26	.19	.03	.03	.02	.40	.35	.26
Adult education	.13	.16	.14	.01	.02	.01	.19	.22	.18
Preschool and kindergarten	.01	.01	.02	.00	.00	.00	.01	.01	.02
Other teachers	.14	.09	.04	.02	.02	.01	.19	.11	.05
Writers, artists, entertainers	.89	1.14	1.98	.03	.05	.06	1.29	1.60	2.71
Authors	.08	.12	.30	.00	.00	.00	.11	.17	.42
Designers	.05	.07	.15	.00	.00	.00	.07	.10	.20
Editors and reporters	.28	.33	.51	.00	.00	.00	.41	.48	.71
Musicians and composers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Painters and sculptors	.11	.15	.15	.01	.01	.01	.16	.20	.21
Photographers	.12	.12	.14	.00	.00	.00	.18	.16	.19
Public relations specialists	.12	.16	.45	.02	.04	.05	.16	.21	.60
Radio and tv announcers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Other writers, artists, entertain	.12	.17	.27	.00	.00	.00	.18	.24	.37
Other professional and technical	7.14	8.52	9.69	.57	1.04	1.29	10.17	11.71	12.92
Accountants	3.00	3.50	4.06	.25	.48	.68	4.26	4.79	5.36
Architects	.09	.07	.08	.01	.01	.02	.13	.10	.11
Archivists and curators	.03	.02	.00	.00	.00	.00	.04	.03	.01
Clergy	.01	.01	.01	.00	.00	.00	.01	.01	.01
Farm management advisors	.01	.01	.02	.00	.00	.00	.01	.01	.02
Foresters and conservationists	.37	.42	.73	.00	.00	.00	.53	.60	1.02
Home management advisors	.01	.01	.01	.00	.00	.00	.02	.01	.01
Judges	.04	.04	.21	.00	.00	.00	.06	.06	.29
Lawyers	.83	1.36	1.36	.01	.02	.02	1.20	1.93	1.88
Librarians	.12	.12	.17	.00	.00	.00	.17	.17	.24
Operations and systems research	.48	.63	.64	.03	.06	.06	.69	.87	.87
Personnel, labor relations wkrs	1.25	1.34	1.66	.27	.46	.52	1.70	1.72	2.09
Other research workers	.45	.35	.15	.00	.00	.00	.65	.51	.21
Recreation workers	.05	.10	.15	.00	.00	.00	.07	.14	.21
Social workers	.33	.44	.23	.00	.00	.00	.48	.62	.32
Vocation, education counselors	.10	.11	.21	.00	.00	.00	.15	.16	.29
Managers, officials, proprietors	10.53	10.19	11.59	5.67	5.62	7.60	12.76	12.14	13.12
Buyers, sales, loan managers	.79	.74	.94	.03	.04	.04	1.14	1.03	1.29
Bank, financial managers	.06	.07	.12	.00	.00	.00	.09	.10	.16
Purchasing agents, buyers, other	.69	.62	.79	.03	.04	.04	.99	.87	1.07
Sales manager, exc retail trade	.05	.05	.04	.00	.00	.00	.07	.07	.06
Administrators, public inspectors	9.47	9.12	10.05	5.61	5.53	7.50	11.24	10.65	11.03
Construction inspector, public	.11	.08	.12	.00	.00	.00	.17	.12	.17
Inspectors, exc construct, public	2.31	2.16	3.41	.18	.24	.68	3.30	2.98	4.45
Officials, administrators, public	5.49	5.54	4.84	.52	.82	.77	7.78	7.56	6.40
Postmasters, mail supervisors	1.55	1.34	1.68	4.91	4.47	6.05	.00	.00	.00
Other managers, officials, proprts	.27	.33	.60	.03	.05	.06	.38	.45	.80
Mgrs, superintendents, building	.06	.09	.18	.01	.02	.02	.08	.12	.24
Office managers, other	.19	.23	.41	.02	.03	.05	.27	.31	.54
Officers, pilots, pursers, ship	.01	.01	.01	.00	.00	.00	.02	.02	.01
Restaurant, cafe, bar, managers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Sales workers	.12	.11	.04	.01	.01	.02	.17	.15	.04
Other sales workers	.12	.11	.04	.01	.01	.02	.17	.15	.04
Clerical workers	51.54	47.85	42.87	84.54	78.55	75.34	36.37	34.73	30.41
Stenographers, typists, secretaries	9.19	8.37	9.72	.64	.86	.94	13.12	11.58	13.08
Legal secretaries	.06	.06	.14	.00	.00	.00	.09	.09	.19
Medical secretaries	.02	.01	.02	.00	.00	.00	.03	.02	.03
Other secretaries	4.76	4.80	6.09	.25	.37	.44	6.84	6.69	8.26
Stenographers	.69	.34	.08	.11	.13	.12	.96	.43	.06
Typists	3.66	3.16	3.38	.28	.36	.38	5.21	4.35	4.53
Office machine operators	1.36	1.70	1.82	.06	.15	.17	1.95	2.36	2.44
Computer and peripheral equip	.42	.91	1.26	.03	.11	.13	.60	1.25	1.69
Duplicating	.03	.02	.03	.00	.00	.00	.04	.03	.04
Keypunch	.83	.69	.35	.03	.04	.04	1.20	.97	.47
Tabulating	.01	.00	.00	.00	.00	.00	.01	.00	.00
Other office machine operators	.07	.08	.18	.00	.00	.00	.11	.11	.25

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Federal public administrtn			Postal services			Federal pub admin,exc post office		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other clerical workers	41.00	37.78	31.34	83.83	77.54	74.23	21.30	20.80	14.89
Billing clerks	.03	.02	.01	.00	.00	.00	.04	.03	.01
Bookkeepers	1.38	1.41	.21	.36	.60	.38	1.85	1.76	.14
Cashiers	.16	.18	.23	.02	.04	.07	.23	.24	.30
Clerical supervisors, other	1.92	2.18	1.17	.10	.16	.14	2.75	3.04	1.57
Counter clerks,exc food	.06	.08	.17	.00	.00	.00	.09	.11	.23
Dispatchers,starters,vehicle	.11	.13	.11	.20	.29	.30	.06	.06	.04
Enumerators and interviewers	1.97	1.90	.36	.00	.00	.00	2.88	2.71	.50
Estimators,investigators,other	1.09	1.28	2.58	.18	.30	.24	1.51	1.70	3.48
Expediters,prduction controiars	.62	.67	.92	.15	.21	.20	.83	.87	1.20
File clerks	1.26	1.09	.79	.21	.26	.40	1.75	1.44	.94
Insurance adjusters,examiners	.02	.02	.01	.00	.00	.00	.03	.03	.01
Library attendants, assistants	.05	.06	.05	.00	.00	.00	.07	.08	.07
Mail carriers, post office	11.84	10.78	10.90	37.58	36.03	39.32	.00	.00	.00
Mail handlers,exc post office	.36	.36	.26	.02	.02	.02	.52	.50	.35
Messengers and office helpers	.07	.06	.02	.02	.03	.05	.10	.06	.01
Payroll,timekeeping clerks	.43	.49	.42	.36	.59	.64	.47	.45	.33
Postal clerks	13.91	11.45	8.80	44.16	38.24	31.76	.00	.00	.00
Real estate appraisers	.05	.07	.09	.00	.00	.00	.07	.10	.13
Receptionists	.17	.18	.26	.00	.00	.00	.25	.25	.35
Shipping and receiving clerks	.29	.27	.16	.00	.00	.00	.42	.39	.22
Statistical clerks	.85	.97	1.05	.19	.32	.15	1.16	1.25	1.40
Stock clerks and store keepers	1.67	1.43	1.43	.11	.13	.09	2.38	1.99	1.94
Teachers aides, exc monitors	.03	.02	.00	.00	.00	.00	.04	.03	.00
Telephone operators	.21	.11	.05	.03	.03	.03	.29	.15	.05
Weighers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Misc clerical workers	2.47	2.57	1.28	.17	.29	.44	3.53	3.55	1.61
Crafts and kindred workers	8.46	8.56	7.24	1.38	2.09	3.41	11.72	11.32	8.71
Construction crafts workers	1.77	1.59	1.25	.09	.12	.10	2.53	2.22	1.69
Carpenters and apprentices	.39	.35	.21	.02	.03	.02	.57	.49	.28
Brick,stonemasons, apprentices	.02	.02	.02	.00	.00	.00	.03	.03	.03
Bulldozer operators	.04	.03	.08	.00	.00	.00	.06	.05	.11
Cement and concrete finishers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Electricians and apprentices	.62	.55	.37	.04	.06	.05	.89	.76	.50
Excavating,grading mach operatr	.08	.07	.10	.00	.00	.00	.12	.11	.14
Painters and apprentices	.32	.29	.16	.02	.02	.02	.46	.41	.22
Plumbers,pipefitters,aprentices	.28	.27	.29	.01	.01	.01	.41	.38	.40
Blue collar worker supervisors	1.00	1.15	.65	.49	.74	.69	1.23	1.32	.63
Metalworkg craft wrkrs,exc meca	.78	.73	.68	.00	.00	.00	1.14	1.04	.94
Boilermakers	.02	.02	.01	.00	.00	.00	.03	.02	.01
Machinists and apprentices	.38	.38	.27	.00	.00	.00	.55	.54	.38
Millwrights	.02	.02	.01	.00	.00	.00	.03	.02	.01
Pattern and mcldmakers	.04	.05	.15	.00	.00	.00	.06	.07	.21
Sheetmetal workers, apprentices	.27	.23	.23	.00	.00	.00	.40	.32	.32
Tool and diemakers, apprentices	.05	.05	.02	.00	.00	.00	.08	.07	.03
Mechanics,repairers,installers	4.14	4.32	3.83	.76	1.17	2.55	5.69	5.67	4.32
Air cond, heating, refrig mech	.22	.31	.39	.02	.04	.03	.31	.43	.53
Aircraft mechanics	1.38	1.35	.67	.00	.00	.00	2.02	1.92	.93
Auto body repairers	.02	.02	.02	.01	.01	.02	.02	.02	.03
Auto mechanics and apprentices	.58	.57	.60	.40	.52	.81	.66	.59	.52
Data processing mach repairers	.05	.07	.15	.00	.00	.00	.07	.10	.21
Heavy equip mech, incl diesel	.69	.87	1.19	.27	.51	1.63	.88	1.02	1.01
Household appliance mechanics	.02	.02	.02	.00	.00	.00	.03	.03	.03
Office machine repairers	.02	.02	.04	.01	.01	.01	.03	.02	.05
Radio, television repairers	.60	.51	.22	.00	.00	.00	.88	.73	.31
Railroad, car shop repairers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Other mechanics and apprentices	.55	.58	.51	.05	.07	.05	.79	.80	.68
Printing trade crafts workers	.21	.24	.32	.01	.02	.02	.30	.34	.44
Bookbinders	.01	.01	.02	.00	.00	.00	.02	.02	.03
Compositors and typesetters	.07	.09	.20	.00	.00	.00	.10	.12	.28
Engravers exc photoengravers	.01	.01	.02	.00	.00	.00	.02	.02	.02
Photoengravers, lithographers	.02	.02	.06	.00	.00	.00	.03	.02	.08
Press,plate printers,aprentices	.10	.12	.03	.01	.02	.02	.14	.16	.04
Transport,public util craft wrks	.13	.13	.22	.00	.00	.00	.18	.18	.30
Elec pwr line instaler,repairer	.03	.02	.06	.00	.00	.00	.04	.03	.08
Locomotive engineers	.01	.02	.01	.00	.00	.00	.02	.02	.01
Power station operators	.01	.01	.06	.00	.00	.00	.01	.01	.08
Telephone installers,repairers	.07	.08	.09	.00	.00	.00	.11	.11	.12
Telephone line instalr,splicers	.01	.01	.00	.00	.00	.00	.01	.01	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Federal public administrtrn			Postal services			Federal pub admin,exc post office		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.45	.40	.30	.04	.05	.06	.64	.55	.39
Bakers	.01	.01	.01	.00	.00	.00	.02	.02	.01
Cabinetmakers	.02	.02	.05	.00	.00	.00	.03	.02	.07
Crane,derrick,hoist operator	.07	.06	.03	.00	.00	.00	.10	.09	.04
Dental laboratory technicians	.01	.01	.01	.00	.00	.00	.02	.01	.01
Jewelers and watchmakers	.01	.01	.01	.00	.00	.00	.01	.01	.02
Motion picture projectionists	.01	.01	.00	.00	.00	.00	.01	.01	.01
Opticians,lens grinder,polisher	.01	.01	.01	.00	.00	.00	.01	.01	.01
Shipfitters	.01	.01	.01	.00	.00	.00	.02	.02	.01
Sign painters and letterers	.02	.02	.02	.01	.01	.01	.02	.02	.02
Stationary engineers	.21	.17	.13	.03	.04	.04	.29	.23	.16
Tailors	.01	.01	.01	.00	.00	.00	.01	.01	.01
Upholsterers	.01	.01	.01	.00	.00	.00	.02	.01	.01
Other crafts workers	.06	.07	.01	.00	.00	.00	.09	.10	.01
Operatives	2.91	3.31	3.21	1.29	2.26	2.97	3.65	3.75	3.31
Operatives,except transport	1.50	1.51	1.33	.22	.28	.28	2.09	2.03	1.74
Semiskilled metalworking	.31	.29	.22	.02	.03	.02	.45	.40	.29
Drill press operatives	.01	.01	.01	.00	.00	.00	.01	.01	.01
Grinding machine operatives	.01	.01	.01	.00	.00	.00	.01	.01	.01
Lathe,milling mach operatives	.03	.02	.01	.00	.00	.00	.04	.02	.01
Metal platers	.05	.06	.04	.00	.00	.00	.07	.09	.06
Other precision mach operators	.01	.01	.01	.01	.01	.01	.01	.01	.01
Solderers	.01	.01	.02	.00	.00	.00	.02	.02	.03
Welders and flamecutters	.20	.18	.12	.01	.02	.01	.29	.25	.17
Semiskilled packing, inspecting	.34	.32	.35	.01	.01	.02	.50	.44	.48
Packer,wrapper,exc meat,prodc	.34	.31	.34	.01	.01	.02	.49	.43	.47
Produce grdr,pkrs,exc fact,farm	.01	.01	.01	.00	.00	.00	.01	.01	.01
Other operatives, exc transport	.85	.90	.76	.19	.24	.24	1.15	1.19	.96
Blasters	.01	.01	.01	.01	.01	.01	.01	.01	.01
Surveyors' helpers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Clothing ironers and pressers	.02	.01	.01	.00	.00	.00	.03	.02	.01
Dressmakers, exc factory	.05	.04	.02	.00	.00	.00	.07	.06	.02
Drillers, earth	.01	.01	.01	.00	.00	.00	.01	.01	.01
Filer,polisher,sander,buffer	.01	.01	.02	.00	.00	.00	.02	.02	.03
Garage wrkr,gas station atten	.05	.04	.02	.10	.09	.01	.03	.02	.03
Laundry,dry cleang oprs,other	.04	.03	.01	.00	.00	.00	.06	.04	.01
Meat cutters,butchers,exc mfg	.05	.06	.03	.00	.00	.00	.08	.08	.04
Oilers,greasers,exc automobiles	.02	.02	.03	.01	.02	.03	.02	.02	.03
Painters, mfg articles	.01	.01	.01	.01	.01	.01	.01	.01	.01
Photographic process workers	.05	.05	.07	.00	.00	.00	.08	.08	.09
Sailors and deckhands	.02	.01	.01	.00	.00	.00	.03	.02	.01
Sawyers	.01	.01	.01	.00	.00	.00	.01	.01	.01
Sewers and stitchers	.02	.02	.03	.01	.01	.01	.03	.03	.04
Furnace tendr,stokr,exc metal	.01	.02	.04	.04	.07	.13	.00	.00	.00
Miscellaneous machine operatives	.19	.22	.03	.01	.02	.02	.28	.31	.03
Other operatives,exc transport	.27	.31	.41	.01	.01	.02	.39	.44	.56
Transport equipment operatives	1.41	1.80	1.88	1.08	1.98	2.69	1.56	1.72	1.57
Boat operators	.01	.01	.01	.00	.00	.00	.01	.01	.01
Bus drivers	.08	.15	.03	.01	.04	.03	.11	.19	.02
Delivery and route workers	.05	.04	.00	.00	.00	.00	.07	.06	.00
Fork lift,tow motor operatives	.26	.34	.41	.02	.04	.06	.37	.46	.55
Railroad brake operators	.01	.01	.01	.00	.00	.00	.01	.01	.02
Railroad switch operators	.01	.01	.01	.00	.00	.00	.01	.01	.02
Taxicab drivers, chauffeurs	.15	.15	.10	.01	.03	.02	.22	.20	.13
Truck drivers	.85	1.11	1.31	1.03	1.88	2.58	.77	.78	.83
Service workers	4.39	4.49	5.84	2.16	3.25	3.97	5.41	5.02	6.56
Cleaning service workers	1.73	1.92	2.10	1.91	2.83	3.26	1.64	1.53	1.65
Lodging qtrs cleaners,exc privt	.03	.02	.03	.00	.00	.00	.04	.02	.04
Bldg interior cleaners, other	.24	.29	.31	.17	.29	.17	.27	.28	.37
Janitors and sextons	1.46	1.62	1.75	1.73	2.54	3.10	1.34	1.22	1.24
Food service workers	.51	.40	.32	.00	.00	.00	.74	.58	.44
Bartenders	.01	.01	.01	.00	.00	.00	.01	.01	.01
Waiters' assistants	.01	.02	.05	.00	.00	.00	.02	.02	.07
Cooks,exc private households	.23	.18	.06	.00	.00	.00	.33	.26	.08
Dishwashers	.03	.02	.02	.00	.00	.00	.04	.02	.02
Food counter,fountain workers	.03	.03	.03	.00	.00	.00	.04	.04	.05
Waiters	.11	.09	.10	.00	.00	.00	.16	.13	.14
Other food serv wkrs,exc privt	.10	.07	.05	.00	.00	.00	.14	.10	.08

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	Federal public administrtn			Postal services			Federal pub admin,exc post office		
	1970	1978	1990	1970	1978	1990	1970	1978	1990
Health service workers	.11	.08	.24	.00	.00	.00	.15	.12	.33
Dental assistants	.02	.01	.03	.00	.00	.00	.03	.01	.04
Health aides, except nursing	.02	.02	.01	.00	.00	.00	.03	.02	.01
Nursing aides and orderlies	.05	.04	.18	.00	.00	.00	.07	.05	.25
Practical nurses	.02	.02	.03	.00	.00	.00	.03	.03	.04
Personal service workers	.23	.27	.26	.06	.08	.07	.31	.35	.33
Attendants, recreation, amusement	.01	.01	.02	.00	.00	.00	.02	.02	.03
Attendants, personal serv, other	.03	.02	.04	.00	.00	.00	.04	.04	.05
Barbers	.03	.01	.03	.00	.00	.00	.04	.01	.04
Child care workers, exc private	.03	.02	.03	.00	.00	.00	.04	.02	.04
Elevator operators	.05	.06	.06	.06	.08	.07	.05	.05	.06
Hairdressers and cosmetologists	.01	.01	.01	.00	.00	.00	.01	.01	.01
Housekeepers, exc private homes	.03	.03	.05	.00	.00	.00	.05	.04	.07
Welfare service aides	.04	.11	.03	.00	.00	.00	.06	.16	.04
Protective service workers	1.82	1.82	2.93	.20	.34	.64	2.56	2.45	3.81
Crossing guards, bridgetenders	.01	.01	.01	.00	.00	.00	.02	.01	.01
Firefighters	.35	.30	.64	.00	.00	.00	.51	.43	.89
Guards	.65	.76	1.39	.16	.28	.58	.87	.97	1.71
Marshals and constables	.04	.05	.08	.00	.00	.00	.06	.08	.11
Police and detectives	.76	.68	.79	.04	.06	.06	1.08	.94	1.07
Sheriffs and bailiffs	.01	.02	.02	.00	.00	.00	.02	.02	.02
Laborers, except farm	2.73	3.43	2.46	4.04	6.61	4.66	2.13	2.07	1.61
Animal caretakers, exc farm	.02	.02	.03	.00	.00	.00	.03	.03	.04
Carpenter helpers	.01	.01	.02	.00	.00	.00	.02	.02	.03
Constr labr, exc carpenter helpr	.09	.06	.10	.01	.01	.01	.13	.08	.13
Freight and material handlers	1.41	2.11	1.32	3.96	6.47	4.55	.24	.25	.08
Garbage collectors	.01	.01	.01	.00	.00	.00	.01	.01	.01
Gardenrs, groundkeepers, exc farm	.18	.20	.54	.03	.05	.04	.25	.27	.74
Stock handlers	.10	.11	.02	.01	.02	.01	.14	.15	.02
Vehicle washers, equip cleaners	.05	.06	.02	.00	.00	.00	.07	.09	.02
Warehouse laborers, other	.72	.74	.35	.03	.06	.05	1.04	1.03	.46
Other laborers	.14	.10	.06	.00	.00	.00	.20	.15	.09

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	State public administrtrn			Local public administrtrn		
	1970	1978	1990	1970	1978	1990
Total all occupations	100.00	100.00	100.00	100.00	100.00	100.00
Professional and technical	23.62	27.18	26.80	9.56	11.92	13.40
Engineers, technical	1.49	1.20	1.43	1.10	.94	.83
Aeronautical	.01	.01	.01	.00	.00	.00
Chemical	.01	.01	.01	.00	.00	.00
Civil	.87	.63	.65	.79	.65	.58
Electrical	.10	.10	.13	.06	.07	.08
Industrial	.19	.18	.12	.06	.06	.04
Mechanical	.07	.07	.07	.04	.04	.04
Mining	.02	.02	.01	.00	.00	.00
Petroleum	.02	.01	.01	.00	.00	.00
Other engineers	.19	.17	.42	.15	.13	.10
Life and physical scientists	.86	.98	.78	.09	.12	.43
Agricultural	.16	.19	.18	.04	.05	.05
Atmospheric and space	.01	.03	.03	.00	.00	.00
Biological	.37	.50	.26	.02	.03	.18
Chemists	.18	.15	.17	.03	.03	.20
Geologists	.11	.09	.09	.00	.00	.00
Marine	.01	.02	.02	.00	.00	.00
Mathematical specialists	.21	.19	.14	.02	.02	.00
Actuaries	.02	.02	.01	.00	.00	.00
Mathematicians	.01	.01	.02	.00	.00	.00
Statisticians	.18	.16	.11	.02	.01	.00
Engineering, science technicians	1.17	1.06	.95	1.06	1.01	.95
Agricultural, biolgcl, exc health	.12	.11	.06	.01	.01	.09
Chemical technicians	.03	.03	.03	.01	.01	.02
Drafters	.35	.31	.38	.45	.43	.61
Electrical and electronic	.10	.10	.07	.04	.04	.02
Industrial engineering	.01	.01	.01	.00	.00	.00
Mathematical technicians	.02	.02	.05	.00	.00	.00
Surveyors	.24	.20	.16	.36	.32	.08
Other engineering, science tech	.30	.27	.19	.19	.20	.13
Medical workers, exc technicians	1.01	1.14	1.31	.20	.22	.39
Dentists	.05	.05	.09	.00	.00	.00
Dietitians	.04	.04	.09	.01	.01	.02
Pharmacists	.02	.03	.09	.00	.00	.00
Physicians and osteopaths	.13	.16	.38	.02	.02	.10
Registered nurses	.30	.28	.32	.12	.12	.15
Therapists	.41	.50	.24	.05	.06	.11
Veterinarians	.06	.07	.10	.00	.00	.00
Health technologists, technicians	.11	.12	.27	.03	.03	.41
Clinical lab technologists, tech	.07	.07	.14	.01	.01	.08
Other health technicians	.03	.04	.12	.01	.01	.33
Technicians, except health	.89	1.14	.79	1.03	1.22	1.78
Airplane pilots	.12	.17	.24	.01	.01	.02
Radio operators	.47	.54	.27	.97	1.13	1.65
Tool programmers, numerical	.01	.01	.02	.00	.00	.00
Other technicians except health	.29	.42	.25	.05	.08	.11
Computer specialists	.84	1.11	1.74	.25	.34	.56
Computer programmers	.52	.62	.76	.17	.21	.38
Computer systems analysts	.28	.42	.94	.07	.11	.17
Other computer specialists	.04	.07	.04	.01	.02	.02
Social scientists	.51	.90	1.00	.44	.68	.89
Economists	.21	.33	.35	.03	.04	.07
Political scientists	.02	.02	.04	.00	.00	.00
Psychologists	.12	.30	.28	.02	.05	.13
Sociologists	.02	.05	.15	.01	.02	.02
Urban and regional planners	.10	.15	.09	.38	.55	.64
Other social scientists	.04	.05	.10	.01	.02	.03
Teachers	.63	.44	.17	.18	.11	.04
Adult education	.21	.19	.05	.02	.02	.01
Preschool and kindergarten	.01	.01	.04	.01	.02	.02
Other teachers	.41	.23	.07	.14	.08	.01

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	State public administrtrn			Local public administrtrn		
	1970	1978	1990	1970	1978	1990
Writers,artists,entertainers	.76	.93	1.03	.39	.50	.95
Athletes and kindred workers	.04	.05	.05	.08	.09	.26
Designers	.05	.05	.25	.03	.04	.03
Editors and reporters	.11	.13	.08	.02	.03	.03
Musicians and composers	.00	.00	.00	.02	.02	.01
Painters and sculptors	.06	.07	.02	.03	.04	.17
Photographers	.10	.11	.07	.05	.05	.18
Public relations specialists	.33	.43	.48	.12	.18	.23
Other writers,artists,entertain	.07	.09	.08	.05	.06	.05
Other professional and technical	15.14	17.98	17.21	4.78	6.75	6.18
Accountants	4.27	4.96	5.66	1.03	1.28	.90
Architects	.12	.08	.16	.06	.04	.16
Archivists and curators	.06	.07	.05	.01	.01	.00
Clergy	.07	.06	.10	.01	.01	.02
Farm management advisors	.01	.01	.00	.01	.01	.00
Foresters and conservationists	.64	.68	.35	.06	.07	.11
Home management advisors	.02	.01	.01	.01	.01	.01
Judges	1.07	1.02	.67	.45	.45	.30
Lawyers	1.46	2.96	3.12	.85	1.69	1.64
Librarians	.11	.10	.07	.06	.07	.05
Operations and systems research	.14	.19	.19	.04	.06	.21
Personnel,labor relations wkrs	4.24	4.44	4.25	.32	.36	.71
Other research workers	.48	.39	.06	.05	.04	.01
Recreation workers	.19	.26	.13	.59	.96	.77
Social workers	1.57	2.11	2.11	1.18	1.66	1.28
Vocation,education counselors	.70	.66	.31	.05	.05	.01
Managers,officials,proprietors	14.53	14.04	12.48	10.45	9.68	8.84
Buyers,sales,loan managers	.53	.45	.41	.23	.20	.20
Bank,financial managers	.04	.04	.01	.00	.00	.00
Purchasing agents,buyers,other	.44	.36	.33	.22	.20	.20
Sales manager, exc retail trade	.05	.05	.07	.01	.00	.00
Administrators,pub inspectors	13.34	12.90	11.25	9.98	9.22	8.35
Assess,control,local pub admin	.00	.00	.00	2.17	2.05	1.64
Construction inspector,pub	.32	.22	.33	1.19	.87	.96
Inspectors,exc construct,pub	4.08	4.03	2.22	.83	.68	.64
Officials,administrators,pub	8.94	8.65	8.70	5.78	5.61	5.10
Other managers,officials,proprts	.66	.69	.82	.24	.26	.28
Mgrs, superintendents, building	.07	.09	.10	.04	.05	.06
Office managers, other	.55	.57	.70	.18	.19	.21
Officers,pilots,pursers,ship	.02	.02	.02	.00	.00	.00
Restaurant,cafe,bar,managers	.02	.02	.01	.00	.00	.00
Other managers, administrators	.00	.00	.00	.02	.02	.01
Sales workers	.13	.10	.04	.05	.04	.02
Other sales wrkrs	.13	.10	.04	.05	.04	.02
Clerical workers	34.36	32.74	35.33	21.30	21.54	24.03
Stenographs,typists,secretaries	14.61	13.46	14.88	8.77	8.50	10.36
Legal secretaries	.30	.24	.22	.22	.20	.24
Medical secretaries	.02	.01	.01	.01	.01	.00
Other secretaries	5.75	5.97	8.21	3.67	4.11	7.39
Stenographers	1.91	1.29	1.07	.81	.56	.39
Typists	6.63	5.95	5.38	4.05	3.63	2.33
Office machine operators	2.82	2.64	1.67	.87	.86	.74
Bookkeeping and billing	.15	.07	.03	.10	.04	.02
Calculating	.10	.05	.01	.03	.02	.01
Computer and peripheral equip	.51	1.12	1.09	.15	.36	.54
Duplicating	.11	.08	.04	.03	.02	.01
Keypunch	1.65	1.10	.39	.42	.30	.11
Tabulating	.06	.01	.00	.02	.01	.00
Other office machine operators	.24	.22	.12	.13	.12	.06

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	State public administrtn			Local public administrtn		
	1970	1978	1990	1970	1978	1990
Other clerical workers	16.94	16.64	18.78	11.67	12.18	12.93
Billing clerks	.05	.05	.08	.10	.12	.15
Bookkeepers	2.02	1.94	3.08	2.00	2.00	1.16
Cashiers	.45	.50	.23	.33	.36	.41
Clerical supervisors, other	1.17	1.23	1.44	.39	.45	.42
Collectors, bill and account	.02	.02	.01	.04	.03	.03
Counter clerks,exc food	.07	.07	.08	.06	.06	.05
Dispatchers,starters,vehicle	.04	.04	.05	.18	.18	.17
Enumerators and interviewers	.24	.16	.06	.09	.11	.21
Estimators,investigators,other	1.84	1.90	1.93	.51	.56	1.00
Expediters,production controlrs	.14	.13	.11	.10	.10	.06
File clerks	1.75	1.40	1.29	.61	.58	.83
Insurance adjusters,examiners	.16	.26	.29	.00	.00	.00
Library attendants, assistants	.07	.09	.06	.06	.07	.04
Mail handlers,exc post office	.57	.53	.71	.09	.08	.06
Messengers and office helpers	.18	.19	.26	.04	.05	.06
Payroll,timekeeping clerks	.28	.33	.48	.27	.35	.49
Real estate appraisers	.20	.21	.14	.20	.21	.12
Receptionists	.80	.70	.55	.50	.48	.70
Shipping and receiving clerks	.09	.10	.19	.03	.04	.06
Statistical clerks	1.39	1.51	1.58	1.44	1.61	1.48
Stock clerks and store keepers	.52	.38	.40	.21	.15	.06
Teachers aides, exc monitors	.10	.09	.05	.02	.02	.02
Telephone operators	.30	.20	.03	.35	.26	.11
Weighers	.15	.13	.13	.03	.03	.02
Misc clerical workers	4.35	4.46	5.55	4.01	4.30	5.23
Crafts and kindred workers	4.59	4.57	4.21	4.95	5.06	5.81
Construction crafts workers	1.22	1.20	.94	1.74	1.81	2.32
Carpenters and apprentices	.36	.43	.33	.31	.37	.55
Brick,stonemasons, apprentices	.03	.02	.00	.04	.03	.00
Bulldozer operators	.08	.07	.05	.15	.12	.08
Cement and concrete finishers	.01	.01	.02	.01	.02	.04
Electricians and apprentices	.23	.26	.18	.37	.43	.64
Excavating,grading mach operatr	.12	.08	.04	.28	.28	.46
Painters and apprentices	.26	.20	.09	.41	.37	.25
Plasterers and apprentices	.00	.00	.00	.01	.01	.02
Plumbers, pipefitters,aprentices	.12	.13	.23	.16	.17	.27
Blue collar worker supervisors	.92	1.07	.80	.66	.80	1.13
Metalworkg craft wrkrs,exc mech	.09	.12	.24	.09	.09	.11
Blacksmiths	.01	.00	.00	.01	.01	.01
Machinists and apprentices	.07	.09	.19	.05	.06	.07
Sheetmetal workers, apprentices	.02	.02	.06	.02	.02	.03
Mechanics,repairers,installers	1.75	1.61	1.41	1.98	1.93	1.90
Air cond, heating, refrig mech	.07	.11	.17	.05	.08	.12
Aircraft mechanics	.26	.23	.08	.01	.01	.03
Auto body repairers	.01	.01	.07	.02	.01	.00
Auto mechanics and apprentices	.61	.47	.26	1.02	.88	.76
Heavy equip mech, incl diesel	.35	.43	.66	.43	.54	.76
Household appliance mechanics	.03	.03	.01	.15	.13	.06
Office machine repairers	.02	.02	.03	.01	.01	.02
Radio, television repairers	.17	.11	.05	.08	.08	.10
Railroad, car shop repairers	.01	.01	.03	.00	.00	.00
Other mechanics and apprentices	.21	.18	.07	.22	.18	.06
Printing trade crafts workers	.18	.22	.35	.07	.08	.11
Bookbinders	.00	.00	.00	.01	.01	.01
Compositors and typesetters	.09	.11	.18	.03	.03	.03
Press,plate printers,aprentices	.08	.11	.17	.03	.05	.07
Transport,pubic util craft wrkrs	.03	.03	.04	.05	.04	.03
Elec pwr line instaler,repairer	.01	.00	.00	.03	.02	.01
Power station operators	.01	.02	.03	.00	.00	.00
Telephone installers,repairers	.01	.01	.01	.02	.02	.02

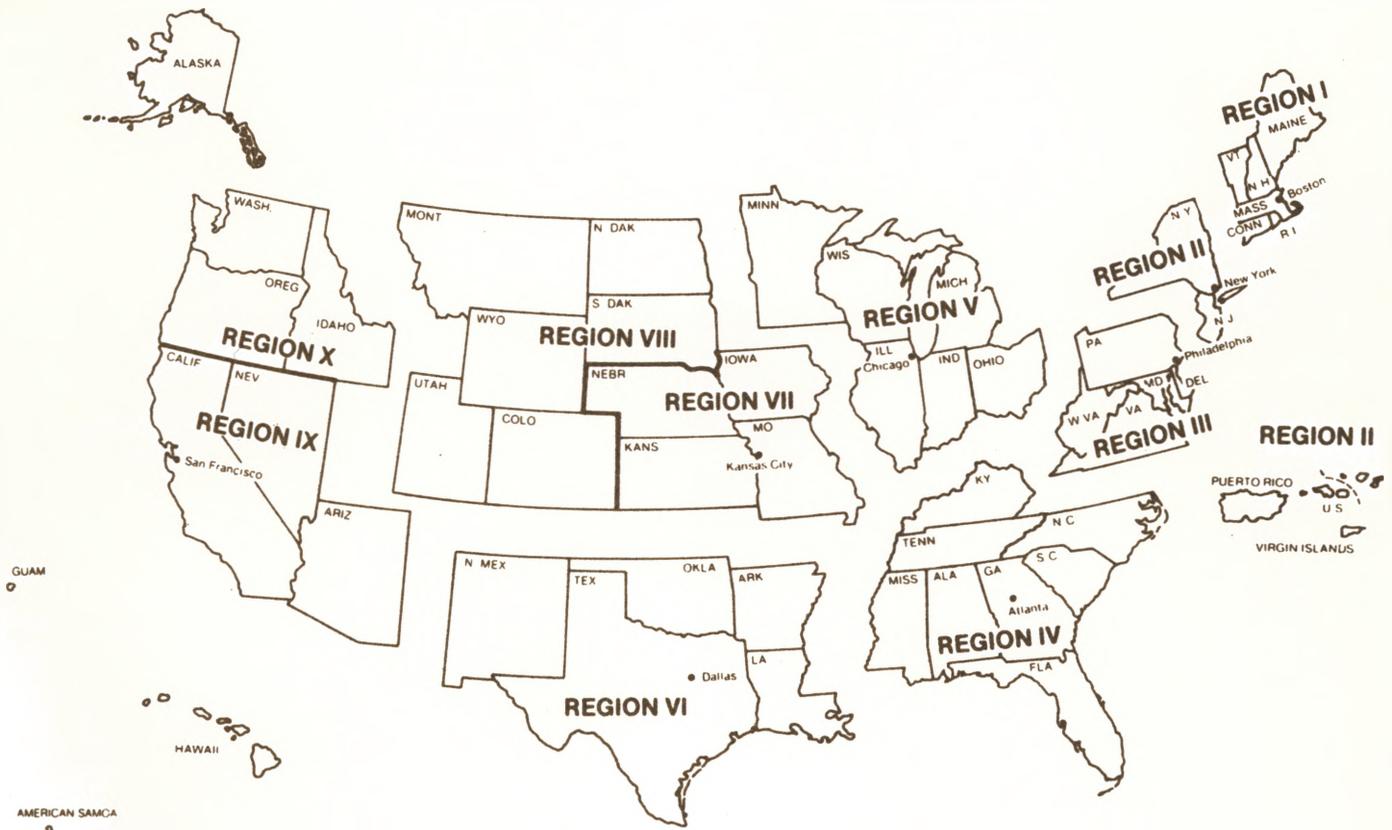
Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	State public administrtn			Local public administrtn		
	1970	1978	1990	1970	1978	1990
Other crafts, kindred workers	.41	.32	.43	.35	.29	.22
Bakers	.02	.03	.04	.00	.00	.00
Cabinetmakers	.01	.01	.09	.01	.00	.00
Crane,derrick,hoist operator	.03	.04	.09	.06	.05	.09
Dental laboratory technicians	.01	.01	.01	.00	.00	.00
Sign painters and letterers	.01	.01	.00	.04	.03	.00
Stationary engineers	.24	.17	.15	.22	.19	.12
Upholsterers	.01	.01	.02	.00	.00	.00
Other crafts workers	.07	.06	.03	.02	.02	.01
Operatives	1.49	1.57	1.79	2.90	3.23	1.95
Operatives,except transport	.80	.75	.64	.96	.96	.69
Semiskilled metalworking	.08	.09	.15	.09	.11	.20
Welders and flamecutters	.07	.08	.15	.08	.11	.20
Semiskilled packing, inspecting	.03	.03	.06	.01	.01	.02
Packer,wrapper,exc meat,prodce	.03	.03	.06	.01	.01	.02
Other operatives, exc transport	.69	.63	.44	.86	.84	.47
Surveyors' helpers	.02	.01	.01	.06	.06	.06
Dressmakers, exc factory	.00	.00	.00	.01	.01	.02
Drillers, earth	.01	.01	.02	.00	.00	.00
Garage wrkr,gas station atten	.03	.02	.01	.09	.06	.03
Laundry,dry cleang oprs,other	.05	.04	.02	.01	.01	.01
Oilers,greasers,exc automobiles	.01	.01	.01	.02	.02	.01
Photographic process workers	.05	.06	.08	.06	.07	.07
Sailors and deckhands	.02	.01	.01	.00	.00	.00
Sawyers	.01	.01	.01	.00	.00	.00
Furnace tendr,stokr,exc metal	.18	.14	.02	.28	.25	.09
Miscellaneous machine operatives	.10	.10	.09	.07	.07	.06
Other operatives,exc transport	.23	.23	.16	.25	.29	.13
Transport equipment operatives	.69	.81	1.15	1.94	2.27	1.26
Boat operators	.02	.02	.02	.00	.00	.00
Bus drivers	.00	.00	.00	.03	.04	.01
Fork lift,tow motor operatives	.06	.08	.05	.02	.03	.03
Parking attendants	.01	.01	.00	.04	.04	.00
Taxicab drivers, chauffeurs	.11	.12	.02	.19	.19	.12
Truck drivers	.49	.59	1.07	1.65	1.97	1.10
Service workers	19.14	17.70	18.34	46.27	43.83	42.01
Cleaning service workers	2.40	2.03	1.91	3.52	3.29	2.55
Lodging qtrs cleaners,exc privt	.04	.02	.01	.04	.02	.01
Bldg interior cleaners, other	.41	.39	.67	.43	.41	.43
Janitors and sextons	1.94	1.62	1.24	3.06	2.87	2.12
Food service workers	.55	.43	.51	.31	.24	.23
Waiters' assistants	.01	.01	.03	.00	.00	.00
Cooks,exc private households	.30	.25	.34	.20	.16	.16
Dishwashers	.02	.01	.01	.01	.01	.01
Food counter,fountain workers	.06	.06	.10	.01	.02	.02
Waiters	.03	.02	.01	.02	.02	.02
Other food serv wkrs,exc privt	.13	.08	.03	.06	.04	.01
Health service workers	.45	.38	.31	.15	.14	.30
Dental assistants	.02	.01	.00	.00	.00	.00
Health aides, except nursing	.05	.06	.06	.03	.04	.03
Nursing aides and orderlies	.25	.22	.19	.08	.08	.25
Practical nurses	.13	.09	.07	.04	.03	.02
Personal service workers	1.54	1.33	.77	.71	.89	1.52
Attendants,recreation,amusement	.15	.11	.13	.23	.23	1.05
Attendants,personal serv,other	.21	.12	.02	.06	.04	.17
Baggage porters and bellhops	.01	.01	.01	.00	.00	.00
Barbers	.05	.01	.02	.01	.00	.01
Child care workers, exc private	.75	.46	.19	.20	.13	.22
Elevator operators	.08	.08	.06	.08	.07	.02
Hairdressers and cosmetologists	.03	.04	.05	.01	.01	.00
Housekeepers, exc private homes	.18	.11	.13	.03	.02	.01
Welfare service aides	.09	.41	.17	.09	.41	.04

Table 1. Percent distribution of industry employment by occupation, 1970, 1978 and projected 1990

	State public administrtn			Local public administrtn		
	1970	1978	1990	1970	1978	1990
Protective service workers	14.21	13.55	14.83	41.58	39.26	37.41
Crossing guards,bridgetenders	.09	.07	.07	2.59	2.07	1.69
Firefighters	.17	.15	.15	11.99	11.12	10.10
Guards	6.39	6.60	9.99	2.22	2.51	2.18
Marshals and constables	.05	.05	.05	.34	.35	.30
Police and detectives	7.34	6.50	4.40	21.64	20.07	20.15
Sheriffs and bailiffs	.17	.18	.18	2.80	3.15	2.98
Laborers, except farm	2.15	2.10	1.01	4.51	4.71	3.95
Animal caretakers, exc farm	.08	.09	.08	.30	.37	.34
Carpenter helpers	.04	.04	.07	.03	.03	.05
Constr labr,exc carpenter help	.19	.13	.05	.34	.34	.26
Freight and material handlers	.09	.08	.08	.07	.07	.06
Gardenrs,groundkeepers,exc farm	1.43	1.47	.46	3.31	3.49	2.70
Longshore workers, stevedores	.02	.03	.06	.01	.01	.03
Stock handlers	.05	.04	.02	.02	.02	.01
Vehicle washers,equip cleaners	.00	.00	.00	.04	.04	.02
Warehouse laborers, cther	.06	.05	.04	.03	.03	.05
Other laborers	.20	.17	.14	.38	.33	.44

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Phone: (404) 881-4418</p> | <p>Regions VII and VIII
911 Walnut Street
Kansas City, Mo. 64106
Phone: (816) 374-2481</p> |
| <p>Region II
Suite 3400
1515 Broadway
New York, N.Y. 10036
Phone: (212) 944-3121</p> | <p>Region V
9th Floor
Federal Office Building
230 S. Dearborn Street
Chicago, Ill. 60604
Phone: (312) 353-1880</p> | <p>Regions IX and X
450 Golden Gate Avenue
Box 36017
San Francisco, Calif. 94102
Phone: (415) 556-4678</p> |
| <p>Region III
3535 Market Street
P.O. Box 13309
Philadelphia, Pa. 19101
Phone: (215) 596-1154</p> | <p>Region VI
Second Floor
555 Griffin Square Building
Dallas, Tex. 75202
Phone: (214) 767-6971</p> | |