

Technical Paper 59

# **The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems**

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U.S. Department of Commerce  
BUREAU OF THE CENSUS

# The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems

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**Robert A. Mosbacher**, Secretary  
**Robert Ortner**, Under Secretary  
for Economic Affairs

BUREAU OF THE CENSUS

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**BUREAU OF THE CENSUS**  
**William P. Butz**, Associate Director  
for Demographic Fields  
**Roger A. Herriot**, Senior Demographic and  
Housing Analyst  
**HOUSING AND HOUSEHOLD ECONOMIC  
STATISTICS DIVISION**  
(Vacant), Chief

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## The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems

### INTRODUCTION

This paper describes the changes in the industry and occupation classification systems used in the 1970 Census of Population (1970 census) and the classification systems used in the 1980 Census of Population (1980 census). As a result of these changes, some 1980 industry categories and most 1980 occupation major groups and detailed categories are not comparable to similar categories in the 1970 and earlier censuses.

From 1940 to 1980, the basic structure of the industry classification system used in the Censuses of Population was generally the same. The occupation classification system had a similar structure from 1940 to 1960. For 1970 the occupation classification was enlarged by almost 50 percent from 297 categories in 1960 to 441 categories in 1970. The 1980 system had 503 categories, an increase of 14 percent from 1970. The 1980 occupation classification also was a major departure from earlier censuses because of the adoption of the Standard Occupational Classification (SOC) by Federal agencies. (See "Revisions to the Occupational Classification" below.)

This report is designed to help users compare 1970 and 1980 census data by quantifying the relationship between the two sets of classification systems. Included are detailed tables showing the proportional flows for individual occupation and industry categories between the two census years and tables comparing the major groups. We derived these proportions from a sample of actual responses from the 1970 Census of Population. See the section on the "1970 Census Sample" for more information.

### REVISIONS TO THE OCCUPATIONAL CLASSIFICATION

We developed the 1980 census classification to be consistent with the 1980 *Standard Occupational Classification (SOC) Manual*. This significantly altered the structure, order, and content of the 1980 census classification, compared to 1970. The major principles used

to develop the Standard Occupational Classification established the criteria for the 1980 census occupation classification. The primary guidelines are:

1. The classification should realistically reflect the current occupational structure of the United States.
2. An occupation should be classified on the basis of work performed.
3. Occupations should be classified into homogeneous groups that can be defined so that the content of each group is well delineated.

The principles used in developing the 1970 system were similar to these but never formally listed. The differences between 1970 and 1980 are primarily due to differences in application and interpretation of the classification principles rather than to different principles.

The occupational classification system used in the 1980 census did not follow precisely the same hierarchical format as the SOC. The SOC has four levels: division, major group, minor group and unit group. The census system has 13 major groups that map into 20 SOC divisions, and 503 detailed occupational categories that map into 664 SOC unit groups. The SOC also has major groups and minor groups in its hierarchical system. The census system has no official list of subheadings between the major group and detailed occupation levels. Many SOC minor groups are shown in tabulations showing detailed occupations, but the number will vary depending in part on the lines available on the printed page.

The hierarchical levels for each classification are as follows:

SOC Levels		Census Levels	
Title	No. of Categories	Title	No. of Categories
Division	20	Major Group	13
Major Group	59	Minor Group	-
Minor Group	212	Detailed Occupation	-
Unit Group	664	Occupation	503

In the census classification system, additional "minor group" headings shown but are unnumbered and are not accorded any "official" status.

*Standard Occupational Classification Manual, 1980* For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 003-005-0018/5.

In comparing SOC Divisions to census major groups, one finds seven census major groups each map into one SOC division. The "professional" major group includes seven divisions, "technicians" two divisions, and "precision production" three divisions. The census has three major groups for "services" that map into just one SOC division. These census major groups for "services" equate to SOC major groups. The following chart shows the Census major groups, their relationship to SOC divisions, and the number of detailed occupational categories.

1980 Census Major Occupation Groups	No. of SOC Divisions	No. of Detailed Categories	Census
1 Executive, administrative, and managerial occupations	1	46	26
2 Professional specialty occupations	7	115	106
3 Technicians and related support occupations	2	28	22
4 Sales occupations	1	47	23
5 Administrative support occupations, including clerical	1	66	57
6 Private household occupations	1	7	5
7 Protective service occupations	1	11	11
8 Service occupations, except protective and household	3	30	28
9 Farming, forestry, and fishing occupations	1	28	19
10 Precision production, craft, and repair occupations	3	114	103
11 Machine operators, assemblers, and inspectors	1	112	62
12 Transportation and material moving occupations	1	28	25
13 Handlers, equipment cleaners, helpers, and laborers	1	32	16
Total	20	664	503

Many users of census occupational data are interested in only a few summary categories. The 20 SOC divisions were too many lines for these users. To better meet our data users' needs and to better preserve comparability, the 20 SOC divisions were combined into 13 census major groups. This shorter list of major groups better relate to the 12 major groups in the 1970 census occupational structure.

Some users show occupational data using fewer than the 13 lines needed to present major groups. The SOC provides a suggested summary of six categories. Some 1980 census publications used these six summary lines as suggested.

Six Summary Occupation Groupings	Census Major Groups (Total No. from list above)
Managerial and professional specialty occupations	1, 2
Technical, sales, and administrative support occupations	3, 4, 5
Service occupations	6, 7, 8
Farming, forestry, and fishing occupations	9
Precision production, craft, and repair occupations	10
Operators, fabricators, and laborers	11, 12, 13

As stated above, the SOC major group and minor group levels are not formally included in the census classification, but are sometimes shown to enhance the understanding of census detailed distributions. These major and minor group headings are also considered and often used in developing the shorter occupational listings used for some reports.

The 1980 census had 503 detailed occupational categories. This number relates to 664 SOC unit groups or equivalents. (Not every SOC minor group has unit groups listed under it. In these cases, we counted the minor group as a unit group.) The primary reason for fewer census detailed occupations than SOC unit groups is that the responses given on the census questionnaire are often not specific enough to classify into one of the SOC unit groups. One major example is in the SOC division for production working occupations. The SOC has separate major groups for "machine setup operators," and "machine operators and tenders." Census responses are not adequate to distinguish between these two groups so they were combined for the census. Forty-nine census machine operator detailed occupations account for 95 SOC unit groups.

Although the 1980 census classification has 503 detailed categories, the occupational tables found in census reports range from 6 summary groups to 701 data lines. The most detailed listings exceed 503 because 1) they include summary, major group, and other headings in addition to the detailed categories; and 2) some occupations are subdivided by industry and/or class of worker categories. For example, in one detailed listing the line for the "managers and administrators, n.e.c." is subdivided for "salaried" workers into 17 industry categories, and for "self-employed" workers into the same 17 industries.

Tables 5A-C present the relationship between the 1970 and 1980 major occupation groups and the shift of occupations from one major group to another. The paragraphs below describe the major structural changes made to the 1970 occupation classification to bring the 1980 classification into conformity with the SOC.

1. The major group "executive, administrative, and managerial occupations" basically replaces the 1970 major group for "managers" except for differences noted below.

2. A minor group called "management related occupations" includes "accountants and auditors" and "personnel, training, and labor relations specialists" which were classified in the 1970 "professional" major group.

3. "Working proprietors" in sales occupations and other sales managers who perform some of the same duties as the workers they supervise are classified as "sales supervisors" rather than "managers."

4. The movement of some managers to the major group "precision production, craft, and repair occupations" is similar to the change for working proprietors like those described in "sales" above. See the "supervisory" craft categories.

5. "Technicians" are now a separate major group. In 1970, they were the "technical" part of the major group "professional, technical, and kindred workers."

6. "Licensed practical nurses" are now classified as health technicians, but were included among health service workers in 1970.

7. "Cashiers" and some "counter clerks, except food" were transferred from "clerical" to "sales."

8. The new major group "protective service occupations" was a subgroup under the 1970 major group "service workers, except private household."

9. Agricultural occupations are expanded to include related "off-farm" activities, so that former laborers such as "animal caretakers" and "groundskeepers and gardeners" are transferred to the 1980 "farm" major group.

10. "Precision production, craft, and repair occupations" is roughly the 1970 "craft" major group. It includes also such 1970 operatives as "butchers and meat cutters," "dressmakers," "drywall installers," "precision assemblers," and some of the mine operatives.

11. The new census major group for "machine operators" includes "job setters" (persons who set up a machine for others) and "printing press operators" who were in the "craft" group in 1970.

12. The 1980 major group "transportation and material moving occupations" also contains former "craft" occupations. The transportation occupations now contain locomotive engineers and firemen. Most of the "material moving" portion contains the detailed categories that came from the 1970 craft major

group. The largest of these categories are "operating engineers," "excavating and loading machine operators," and "grader, dozer, and scraper operators."

13. The major group "handlers, equipment cleaners, helpers, and laborers" includes a number of 1970 "operative occupations." Two 1970 operative categories moved are "hand packers and packagers" and "garage workers and service station attendants." Most of the remainder came out of the 1970 large residual categories. One such category is "machine leaders and offbearers." Also many helpers were moved from the 1970 "operatives" to the 1980 "handlers, laborers" major group.

There was one processing change that caused another break in comparability between 1970 and 1980. In 1970 the Bureau allocated "not reported" cases for the first time. However, the allocation was not done at the detailed category level, but to each of the major groups. The last category in each major group had a line titled "major group name—allocated." For example, "sales workers—allocated." Thus the major group totals included a portion of the nonresponses, but the detailed categories did not have any allocated cases. In 1980 the not reported cases were allocated to detailed categories. On average 6.7 percent of the employed had occupation allocated. When we adjusted the 1970 data shown in this report, we prorated the cases in each 1970 allocation category among the detailed categories in the major group of the allocation category. Therefore, the 1970 experienced civilian labor force (ECLF) counts for each occupation shown in Table 1 will average 6.7 percent higher than the counts published after the 1970 Census. The percent allocated did differ by major group. For example, for male professionals the rate was 4.4 percent, but for male laborers it was 8.6 percent. This processing change also makes 1980 categories that conceptually are identical to 1970 categories larger because of the inclusion of the not reported cases. For more information on this topic, see U.S. Bureau of the Census, 1970 Census of Population and Housing, *Procedural History*, PHC(R)-1, Chapter 15, page 38.

The revision of the 1970 occupational classification for 1980 had a different focus than the 1960 revision did for 1970. As stated above, the purpose of the 1970-1980 revision was to bring the classification into conformity with the SOC. The greatest criticism of the 1960 system was that eight large "not elsewhere classified" (n.e.c.) categories contained one-third of the labor force. The task in preparing the 1970 classification was to search these large "n.e.c." categories for occupational groups that could be identified separately. For 1970 the Bureau added 132 occupational categories plus the 12 allocation categories. These 144 new categories gave the 1970 system a total of 441. The revision

for 1980 added 74 new categories, but deleted the 12 allocation categories for a net increase of 62. The 1960-1970 revision had fewer content changes among categories present in both censuses than did the 1970-1980 revision. There were also fewer existing categories moved from one major group to another in the earlier revision. Therefore, even though more categories were added for 1970, the comparability between 1960 and 1970 was greater than that between 1970 and 1980.

Table 1 shows the relationship between 1970 and 1980 detailed occupations sorted by the 1970 categories; Table 2 shows the same relationship sorted by the 1980 categories. Approximately 16 percent of the 1970 occupation categories correspond to a single 1980 occupation category. See the section below for "Explanation of the Tables" for more details about using the tables.

## REVISIONS TO THE INDUSTRIAL CLASSIFICATION

The 1980 census industrial classification is based on the 1972 Standard Industrial Classification (SIC) and its 1977 Supplement, prepared by the Office of Management and Budget.<sup>1</sup> The 1980 classification contains 232 categories compared to 227 in 1970. Tables 6A-C present the 1970 census industry data in terms of the 1970 major industry classification cross-classified by the 1980 major industry groups.

Most of the changes reflect revisions to the SIC since the development of the 1970 census industry system. Three such major revisions are:

1. The U.S. Postal Service was transferred from "public administration" to "transportation."
2. Wholesale and retail trade are now two separate major groups, giving the census industry classification 13 major groups instead of 12.
3. "Public administration" is now classified by primary activity, for example, "public finance," rather than by level of government, as in Federal, state, or local.

Minor changes to the 1980 industry classification are:

- Detailed 1970 categories for construction and several chemical manufacturing industries are combined in 1980 because respondents in the Population Censuses do not provide enough information to make the proper detailed distinctions shown in the 1970 system.

<sup>1</sup>Standard Industrial Classification Manual, 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; Stock No. 041-001-00066-6, 1977 Supplement; Stock No. 003-005-00176-0.

- Agriculture production is separately identified as "crops" or "livestock."

- Nondurable goods manufacturing industries are listed before durable goods to better follow the SIC order.

As with occupation, the 1970 and 1980 census industrial classification systems did not strictly follow the hierarchical format of the SIC.

The SIC has the four levels of division, major group (two digit), group (three digit), and industry (four digit). This hierarchical level is similar to that described above for the SOC. That is because the SOC was modeled after the SIC which was first developed in the late 1930's. The hierarchical relationship between the SIC and the Census industrial classification system is as follows:

Title	SIC Levels		Census Levels	
	No. of Categories	Title	No. of Categories	
Division	10	Major group	83	13
Major Group	422	Group	422	
Three digit industry group	1004	Detailed industry	231	
Four digit industry				

The 13 census major groups generally correspond to the 10 SIC divisions; nine SIC divisions match nine census major groups; four census major groups equate to the SIC division for "services." These four major groups are "business and repair services," "personal services," "entertainment and recreation services," and "professional and related services." The census major groups have been very stable over the years. The split of wholesale and retail trade into two major groups was the first change since the present system was established in 1940.

The 1980 census industrial classification had 231 detailed categories. The 1970 system had 213 industrial categories plus 14 allocation categories for a total of 227. The SIC has 1005 four-digit categories. The census classifications had fewer categories because the industrial descriptions reported in the census are not detailed enough to identify many of the detailed SIC categories. For example, many employees of a chemical manufacturing plant do not report whether the firm's product is organic chemicals or inorganic chemicals; the SIC makes this distinction, but the census classification does not.

<sup>2</sup>Does not include Division K, nonclassifiable establishments and its subcategories.

<sup>3</sup>In the census classification system, additional "minor group" headings are shown but are unnumbered and are not accorded any official status.

7. *County Business Patterns: 1976, U.S. Summary*—This volume contains first-quarter employment data by SIC industry. We compared detailed industry employment in the 1976 County Business Patterns to the 1970 census industry categories to determine if industries not shown separately in 1970 had grown large enough to be shown in 1980.

## 1970 CENSUS SAMPLE

The sample used to make the estimates shown in this report consisted of 127,125 persons in the experienced civilian labor force (ECLF) from the 1970 Census of Population.

The narrative descriptions of the industry and the "kind of work performed" (occupation) reported by these persons were coded to 1970 classifications during census processing. We recoded the responses into the categories of the 1980 industry, occupation, and class of worker classifications. We also verified the 1970 coding and entered the correct code on the record if an error was made by the 1970 census coder. This "double coded" sample was used to determine 1970 categories that were reclassified into more than one 1980 category, and what fraction of the cases with a given 1970 code correspond to each 1980 category.

As from any sample, the proportions shown in the comparability tables are subject to sampling error, especially when the numbers for a detailed category are very small. Furthermore, since the sample is from 1970, it reflects the occupational composition at that date. Because occupations change over time, the sample would be less useful for other time periods. Surveys and other data bases may measure the industrial and occupational distribution of the labor force differently from the decennial census. Therefore, although the adjustment factors contained in this paper can be used for other data sources, the conversion may not be as accurate as for data from the 1970 census. Keep in mind also that these factors will vary in accuracy for different races or other subgroups and for different geographic areas. See the section on "Reliability of the Data" for a more detailed discussion of sampling variability.

## Calculation of the Adjustment Factors

Columns 4, 6, and 8 of Tables 1 and 3 contain adjustment factors representing an estimate of the percent of a 1970 category that would be in a different category in the 1980 classification system. We calculated the adjustment percent from the tally of industry and occupation responses in the 1970 census sample. Using a separate tally for each 1970 industry and occupation category, we counted the number of cases containing the industry descriptions or occupation job titles that were classified into each 1980 category. The

The processing change described in the occupation section of allocating nonresponses to detailed categories in 1980 rather than to major groups as in 1970, also applies to industry. Detailed industry categories published in 1970 census reports did not have any nonresponse cases allocated to them, but similar categories in the 1980 reports did include such cases. The 1980 industry nonresponse rate averaged 6.7 percent.

Table 3 shows the relationship between 1970 and 1980 detailed industries sorted by the 1970 categories; and Table 4 shows the same relationships sorted by the 1980 categories.

There are many more one-to-one matches of detailed industries than for occupation. About 53 percent of the industry categories are identical for the two censuses. This is so because there were fewer changes for industry than for occupation.

## DATA RESOURCES

We used the following sources to develop the 1980 census occupational and industry classification systems:

1. *Standard Occupational Classification Manual: 1980*—This manual provided the criteria and structure for the 1980 occupation classification.
2. *Standard Industrial Classification Manual: 1972 and its 1977 Supplement*—This manual provided the structure for the 1980 industry classification.
3. *1970 Census of Population: Classified Index of Industries and Occupations*—This volume lists the individual job titles that constitute each 1970 census category.
4. *1970 Census Sample*—This is a sample of 127,125 persons in the "experienced civilian labor force" drawn from respondents to the 1970 census long form questionnaire. This sample was used to determine what fraction of the cases with a given 1970 code correspond to each of several 1980 codes. See the detailed discussion in the section called "1970 Census Sample" below.
5. *Current Population Survey (CPS)*—This is a sample survey of households conducted each month by the Bureau of the Census for the Department of Labor's Bureau of Labor Statistics. It provides detailed information on the labor force, the employed, and the unemployed. We reviewed actual responses to the industry and occupation questions to identify new job titles and job terminology.
6. *Dictionary of Occupational Titles (DOT)*—This volume provided occupation descriptions of work activities associated with jobs.



## THE CLASSIFICATION SYSTEMS

Appendices A through D list the 1970 and 1980 census occupational and industrial classification systems:

- Appendix A. 1970 Occupational Classification
- Appendix B. 1980 Occupational Classification
- Appendix C. 1970 Industrial Classification
- Appendix D. 1980 Industrial Classification

Generally, the appendices present the occupation and industry categories as shown in the detailed tables of this report. However, there are some exceptions.

The detailed tables will not show the special allocation categories devised to tabulate nonresponses in the 1970 census. As discussed above, the published detailed tabulations in 1970 show the nonresponse in special categories as the last line in each major group, for example, "professional, technical, and kindred workers—allocated" or "mining—allocated." However, for 1980 the census computer edit assigned nonresponses to the detailed occupation and industry categories. The result is that the final 1970 experienced civilian labor force data shown in this report for a specific occupation or industry will be slightly higher than the published figures in the 1970 detailed occupation tables cited on page 6 of this text.

We do not show some 1970 occupations in the tables. We combined two groups of 1970 occupation categories because we had no way of estimating the size of the individual categories. (These combinations were used in the 1970 tabulations, so data on the individual categories is unavailable.) The tables list only the first occupation code of the code combination. These two 1970 occupation groupings are shown in the tables as:

- (1) Code "333—Messengers, including telegraph, and office helpers," that includes occupation categories 333 and 383.
- (2) Code "571—Craft and kindred workers, n.e.c.," that includes occupation categories 571, 572, and 575.

Some 1980 occupations do not appear in the tables at all. Usually these are occupations that employed few people at the time of the 1970 census, and contained no cases in the 1970 census sample. We did not try to estimate the size of these occupations. An asterisk (\*) marks these lines in Appendix B.

## SPECIAL NOTES

Users who want to match other detailed data from the 1970 Census of Population to the 1980 classification should also make this additional adjustment. This

adjustment is needed to account for the allocation categories found in the 1970 data. Before applying the adjustment factors shown in Tables 1 and 3, multiply the published employment figure for each 1970 detailed category by the major group factor (C) using the formula below:

$$\begin{array}{ccccc} \text{(A)} & & \text{(B)} & & \text{(C)} \\ \text{Adjusted detailed} & & \text{Detailed} & & \\ \text{category} & & \text{category} & \times & \text{Major group} \\ & & & & \text{Allocation category} \\ & & & & \text{Major group minus} \end{array}$$

To be consistent with census processing, do not include 1970 occupation code 580, "former members of the Armed Forces" or industry code 398, "not specified manufacturing" in this adjustment. Nonresponse cases were never allocated to these two special purpose categories. For manufacturing, treat "durable goods" and "nondurable goods" as major groups.

The Bureau of the Census, in conjunction with the Social Science Research Council and with additional funding from the National Science Foundation, has imputed 1980 industry and occupation codes to two of the Public Use Samples of microdata records from the 1970 census. The samples selected for these imputed codes were the one-in-a-hundred County Group Public Use Samples, which identified SMSA's over 250,000 population.

The 1980 codes were assigned by a logistic regression methodology, which used each person's 1970 code combined with other demographic and socioeconomic characteristics to impute a 1980 equivalent code. Data users who have produced their own tabulations from the 1980 Public Use Files can use the 1980 industry and occupation codes on these modified 1970 Files to produce similar tallies for 1970, thus eliminating the problems of classification non-comparability.

Copies of these modified 1970 files are available for purchase from the Data Users Services Division of the Bureau of the Census. For more information on these files write to the Chief, Labor Force Statistics Branch, Housing and Household Economic Statistics Division, Bureau of the Census.

## RELIABILITY OF THE DATA

The sample for this study was selected in two stages. In the first stage, a sample of enumeration districts (ED's) was selected. In the second stage, a sample of persons in the 1970 experienced civilian labor force was selected independently within sample ED's.

The data presented in this report are based on this 127,125 case sample of the 1970 census experienced civilian labor force. These data are estimates of the values that would have been obtained if the study had been made on all persons in the 1970 experienced civilian labor force.

The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a survey estimate is a measure of the variation among the estimates from all possible samples and thus, is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate.

These intervals will contain the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the sample design were independently selected and data collected under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

- (1) approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples; and
  - (2) approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.
- The intervals are referred to as 68-percent and 95-percent confidence intervals, respectively.

In addition to the variability which arises from the sampling procedures, the results are subject to errors of response, misclassification and other possible systematic biases arising in the processing or estimation steps. These nonsampling errors may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Error that tends to be consistent in one direction will make results biased in that direction. Such biases are not reflected in the standard error.

The estimated standard errors given in this report do not include all portions of the variability due to nonsampling errors that may be present in the data. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed

using these estimated standard errors may not meet the stated levels of confidence. Thus, some care must be exercised in the interpretation of the data in this publication based on the estimated standard errors.

## CALCULATION OF STANDARD ERRORS

*Totals and Percentages*—Table A displays the approximate standard errors of the estimate of totals of Tables 1 to 4. Table B displays the approximate standard errors for the percentages listed in the column labeled "Percent of 1970 Category" of Table 1 or 3.

The standard error of an estimated number listed in Tables 1 to 4 (columns entitled "experienced civilian labor force") depends on both the size of the estimate and the size of the 1970 category from which it is derived. Table A presents the standard errors for 1970 estimated totals. Standard errors for estimated numbers or percents not shown in Tables A or B may be approximated by linear interpolation.

## Example 1

Table 2 shows 7,496 male "sales managers and department heads, retail trade" as a subgroup of "purchasing managers" (1980 code 009). To determine the standard error of this number, look in Table 1 for the 1970 estimate of "sales managers and department heads, retail trade" (1970 code 231) which is 165,293. This is the 1970 base of the number. Table A shows a standard error of 2,272 for the estimate 7,496 with a base of 165,293 using linear interpolation between the appropriate columns and rows.

To compute standard errors on the resultant 1980 (or 1970) estimate listed in the columns labeled "experienced civilian labor force," in Table 2 (or Table 1), compute the standard error for each 1970 (or 1980) component comprising the 1980 (or 1970) total and compute the square root of the sum of squares of the 1970 (or 1980) standard errors. That is,

$$SE(1980) = \sqrt{\sum [SE(1970)]^2} \text{ or } SE(1970) = \sqrt{\sum [SE(1980)]^2}$$

Where  $\sum$  denotes the sum of the 1970 (or 1980) components of the 1980 (or 1970) total. To determine the standard error of each 1970 (or 1980) component of a given 1980 (or 1970) estimate of the size of an occupation, follow the procedure explained in example 1.

Standard errors for the percentages listed in the column labeled "Percent of 1970 Category" in Table 1 are calculated in a similar manner as shown in the example, using the standard errors for percents listed in Table B. Standard errors for the percentages listed in the column labeled "Percent of 1980 Category" of



TABLE A. STANDARD ERRORS OF ESTIMATED 1970 TOTALS

Estimated number in sub-group	Population in 1970 occupation or industry group										
	1,000	2,500	5,000	7,500	10,000	20,000	50,000	100,000	250,000	500,000	1,000,000
100	260	269	272	273	273	274	274	274	274	274	274
500	434	549	582	593	598	606	611	612	612	614	614
1,000	582	776	808	823	846	859	862	864	866	868	868
2,500	672	970	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
5,000	776	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
10,000	868	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
20,000	940	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
50,000	1,040	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
100,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
250,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
500,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
1,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
2,500,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
5,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
10,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
25,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
50,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
100,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
250,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
500,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
1,000,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
2,500,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
5,000,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120
10,000,000,000	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,120

TABLE B. STANDARD ERRORS OF ESTIMATED 1970 PERCENTAGES

Estimated percentage of 1970 total	Population in 1970 occupation or industry group										
	1,000	2,500	5,000	7,500	10,000	20,000	50,000	100,000	250,000	500,000	1,000,000
1	8.6	5.5	3.9	3.2	2.7	1.9	1.2	1.0	0.9	0.5	0.4
5	18.6	12.0	8.5	6.9	6.0	4.2	2.7	2.2	1.9	1.2	0.8
10	26.0	16.5	11.5	9.5	8.2	5.8	3.7	3.0	2.6	1.6	1.0
20	34.7	22.0	15.5	12.5	11.0	7.8	4.9	4.0	3.5	2.2	1.4
25	37.6	23.8	16.8	13.7	12.3	8.4	5.3	4.3	3.8	2.4	1.5
50	43.4	27.4	19.4	15.8	13.9	9.4	5.9	4.8	4.2	2.7	1.7
75	47.6	30.0	21.0	17.0	15.0	10.4	6.4	5.2	4.6	2.9	1.9
80	48.8	31.2	22.0	17.5	15.5	10.8	6.6	5.4	4.8	3.0	2.0
90	50.0	32.4	23.0	18.0	16.0	11.2	6.8	5.6	5.0	3.2	2.2
95	51.2	33.6	24.0	19.0	17.0	11.6	7.0	5.8	5.2	3.4	2.4
100	52.4	34.8	25.0	20.0	18.0	12.0	7.2	6.0	5.4	3.6	2.6

Table 2 are computed using the following formula:

$$SE(y) = \sqrt{\left(\frac{y}{x}\right) \left[ \left(\frac{SE(x)}{x}\right)^2 + \left(\frac{SE(y)}{y}\right)^2 \right]}$$

Where:

$x$  =

the 1970 category estimated total  
the standard error of  $x$  computed as  
shown in the example

$y$  =

the 1980 category estimated total  
the standard error of  $y$  computed by  
using the formula given above for  
SE(1980)

#### Example 2

Table 2 shows that male "sales managers and department heads, retail trade" (1970 occupation code 231) represent 20.18 percent of male "purchasing managers" (1980 code 009). To determine the standard error of this estimate, use Table A and the two formulas described above. Using Table A and linear interpolation appropriately, the standard error of 20.18 percent is determined, to be 6.7 percent.

First, use formula 1 to determine the standard error of the 1980 estimate occupation code 009 (37.148). The standard error for 14.617 and 15.035 were determined to be 3.056 and 3.302, respectively. From example 1, the standard error of 7.496 is 2.272. Therefore,

$$SE(37.148) = \sqrt{(3.056)^2 + (3.302)^2 + (2.272)^2} = 5.040$$

Then, use formula 2 to determine the standard error of .2018 (where  $7.496/37.148 = x/y$ )

$$SE(.2018) = \sqrt{\left(\frac{.2018}{.2018}\right) \left[ \left(\frac{SE(x)}{x}\right)^2 + \left(\frac{SE(y)}{y}\right)^2 \right]} \quad (66.701)$$

#### RELATED REPORTS

The Bureau of the Census has published several reports that contain information on factors that affect comparability and describe differences in the industry and occupation statistics from earlier censuses. These include the following: *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical Paper No. 26, 1972; *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Delayed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; *Occupational Trends in the*

*United States, 1900 to 1950*, Working Paper No. 5, 1958; and *Sixteenth Census Reports, Population, Comparative Occupation Statistics for the United States, 1870 to 1940*.

The special notes section describes the creation of 1970 census public use files with imputed 1980 industry and occupation codes. The following papers describe that project and the theory used to impute the codes. Schenker, Nathaniel, Donald J. Treiman, and Lynn Weidman, 1988, "Multiple imputation of industry and occupation codes for public-use data files," Paper presented at the annual meeting of the American Statistical Association, New Orleans, August, 1988. Treiman, Donald J., William T. Bielby, and Man-Tsun Cheng, 1988, "Evaluating a multiple-imputation method for recalibrating 1970 U.S. Census detailed industry codes to the 1980 standard," in *Sociological Methodology 1988*, edited by Clifford C. Clogg, Washington, DC: American Sociological Association. Treiman, Donald J., and Donald B. Rubin (eds.), 1989, *Multiple-Imputation Methods for Recalibrating Complex Classifications: the 1970 and 1980 Census Detailed Industry and Occupation Classifications* (working title). Forthcoming.

#### DEFINITIONS AND EXPLANATIONS

The data shown in this report were collected in the 1970 Census of Population. Therefore, the definitions refer to that census. The labor force definitions did not change between 1970 and 1980.

#### Census

The Bureau of the Census takes a number of censuses, for example, censuses of population, manufacturers, agriculture, and governments. However the term "Census" in this report refers to the Census of Population.

#### Reference Week

The data on labor force status relate to the calendar week before the one in which the respondents completed their questionnaires or were interviewed by enumerators. The reference week is not the same for all respondents because not all persons were enumerated during the same week. Since Census Day was April 1, 1970, the reference week for many respondents was the last week of March 1970.

#### Civilian Labor Force

The civilian labor force consists of persons classified as employed and unemployed according to the following criteria.

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

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

**Experienced Unemployed**—Unemployed persons who have worked at any time in the past are classified as the "experienced unemployed."

**Experienced Civilian Labor Force**—The "experienced civilian labor force" includes the employed and experienced unemployed.

## Industry and Occupation

The 1970 census questionnaires obtained industry and occupation data for the employed, the experienced unemployed, and persons 16 years and over with work experience but not currently in the labor force. For the last two categories, the occupation is the most recent that a person held during the previous 10 years. For persons who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours.

## Class of Worker

The information on class of worker refers to the same job as the respondent's industry and occupation. The definitions of the class of worker categories shown in this report are as follows:

**Private wage and salary workers**—Persons who work for a private employer for wages, salary, commission, tips, pay-in-kind, or at piece rates. This category also includes self-employed persons whose business is incorporated, because they are paid employees of their own companies.

**Government workers**—Employees of any Federal, state, or local governmental unit, regardless of the activity of the agency.

**Self-employed workers**—Persons who work for profit or fees in their own unincorporated business, profession, or trade, or who operate a farm.

**Unpaid family workers**—Persons who work without pay in a business or on a farm operated by a relative.

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

## SYMBOL AND ABBREVIATIONS

The following symbol and abbreviations are used in this report:

means zero  
ECLF experienced civilian labor force  
n.e.c. not elsewhere classified  
SIC Standard Industrial Classification  
SMSA Standard Metropolitan Statistical Area  
SOC Standard Occupational Classification

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System

[Data are the 1970 experienced civilian labor force. Numbers and percentages may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1980 code	1970 Occupation categories with their 1980 component categories and codes	Total Experienced civilian labor force	Unpaid family workers	Self-employed workers	Government workers	Private wage and salary workers	Percent of 1970 experienced civilian labor force
001		<b>PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS</b>	747,190	5,649,602	100.00	197,588	100.00	100.00
		Accountants	9,410	5,648	1.31	3,862	1.08	1.95
		007 Financial managers	640,112	474,063	86.67	166,051	84.04	10.42
		023 Accountants and auditors	50,030	30,376	6.02	20,655	2.71	3.58
		025 Other financial officers	14,870	14,870	1.99	2,711	0	0
		036 Inspectors and compliance officers, except construction	31,467	24,387	4.21	7,080	0	0
		337 Bookkeepers, accounting, and auditing clerks	59,475	52,454	88.20	7,021	2,136	100.00
002		Architects	4,096	4,096	6.89	4,096	2,136	100.00
		043 Architects	2,925	2,925	3.92	2,925	2,136	100.00
		053 Civil engineers	171,788	132,384	76.50	39,404	30,400	100.00
		054 Marine engineers and naval architects	7,943	7,943	1.00	7,943	7,943	100.00
		Computer programmers	163,845	124,445	75.98	39,400	39,400	100.00
		229 Computer programmers	84,804	72,127	85.00	12,677	12,677	100.00
004		Computer systems analysts	14,029	14,029	100.00	14,029	14,029	100.00
		064 Computer systems analysts and scientists	14,029	14,029	100.00	14,029	14,029	100.00
005		Computer specialists, n.e.c.	72,001	72,001	100.00	72,001	72,001	100.00
		064 Computer systems analysts and scientists	72,001	72,001	100.00	72,001	72,001	100.00
006		Aeronautical and astronautical engineers	70,440	69,187	97.83	1,253	1,253	100.00
		044 Aerospace engineers	1,561	1,561	2.71	1,561	1,561	100.00
010		Chemical engineers	55,021	54,292	100.00	729	729	100.00
		045 Metallurgical and materials engineers	55,021	54,292	100.00	729	729	100.00
011		Civil engineers	54,390	53,661	98.85	729	729	100.00
		053 Civil engineers	183,092	180,633	98.66	2,459	2,459	100.00
012		Electrical and electronic engineers	289,044	289,973	100.00	5,071	5,071	100.00
		075 Geologists and geodesists	196,590	196,590	100.00	6,017	6,017	100.00
013		Industrial engineers	13,750	13,750	100.00	13,750	13,750	100.00
		019 Managers and administrators, n.e.c.	2,296	2,296	1.17	2,296	2,296	100.00
		023 Accountants and auditors	20,010	10,118	50.56	9,892	9,892	100.00
		026 Management analysts	159,390	155,561	97.61	3,829	3,829	100.00
		056 Industrial engineers	1,148	1,148	100.00	1,148	1,148	100.00
014		Mechanical engineers	189,608	187,804	98.99	1,804	1,804	100.00
		057 Mechanical engineers	182,096	180,272	99.02	1,824	1,824	100.00
015		Metallurgical and materials engineers	16,256	16,039	98.72	217	217	100.00
020		Mining engineers	4,794	4,794	100.00	4,794	4,794	100.00
021		Petroleum engineers	11,647	11,647	100.00	11,647	11,647	100.00
022		Sales engineers	57,349	56,922	99.27	427	427	100.00
023		Engineers, n.e.c.	201,504	198,288	98.45	3,216	3,216	100.00
		036 Inspectors and compliance officers, except construction	21,717	18,777	86.46	2,940	2,940	100.00
		059 Industrial engineers	171,289	168,073	98.13	3,216	3,216	100.00
024		Farm management advisors	4,721	4,721	100.00	4,721	4,721	100.00
025		Foresters and conservationists	7,982	7,982	100.00	7,982	7,982	100.00
		036 Inspectors and compliance officers, except construction	41,541	41,541	100.00	41,541	41,541	100.00
		039 Forestry and conservation scientists	26,839	26,839	100.00	26,839	26,839	100.00
		413 Supervisors, firefighting and fire prevention occupations	7,684	7,684	100.00	7,684	7,684	100.00
		416 Fire inspection and fire prevention occupations	3,584	3,584	100.00	3,584	3,584	100.00
026		Home management advisors	5,797	5,797	100.00	5,797	5,797	100.00
030		Judges	12,865	12,865	100.00	12,865	12,865	100.00

See footnote at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with flow 1980 component categories and codes	Experienced civilian labor force	Percent of total civilian labor force	Male	Female
		Experienced civilian labor force	Percent of total civilian labor force	Experienced civilian labor force	Percent of total civilian labor force
031 <sup>1</sup>	Lawyers	273 230	100.00	260 001	13 229
	036 Inspectors and compliance officers, except construction	551	0.21	551	0
032 <sup>1</sup>	178 Lawyers	272 679	99.79	259 450	13 229
	Librarians	130 372	100.00	123 304	7 068
033 <sup>1</sup>	164 Librarians	130 372	100.00	123 304	7 068
	Archivists and curators	7 353	100.00	7 353	0
034 <sup>1</sup>	165 Archivists and curators	7 353	100.00	7 353	0
	Aquarists	5 219	100.00	5 219	0
035 <sup>1</sup>	166 Aquarists	5 219	100.00	5 219	0
	Mathematicians	8 145	100.00	8 145	0
036 <sup>1</sup>	167 Mathematicians	8 145	100.00	8 145	0
	Statisticians	24 204	100.00	24 204	0
042	067 Statisticians	24 204	100.00	24 204	0
	Agricultural scientists	13 517	100.00	13 517	0
043 <sup>1</sup>	077 Agricultural and food scientists	13 517	100.00	13 517	0
	Atmospheric and space scientists	6 139	100.00	6 139	0
	074 Atmospheric and space scientists	6 139	100.00	6 139	0
	225 Science technicians, n.e.c.	5 790	100.00	5 790	0
044	083 Chemical technicians	349	100.00	349	0
	Biological scientists	31 156	100.00	31 156	0
045	077 Agricultural and food scientists	2 583	8.29	2 583	0
	078 Biological and life scientists	24 169	77.57	24 169	0
	083 Medical scientists	4 405	14.14	4 405	0
	Chemists	115 322	100.00	115 322	0
	045 Metallurgical and materials engineers	12 097	10.45	12 097	0
	073 Chemists, except biochemists	94 897	82.29	94 897	0
	077 Agricultural and food scientists	2 863	2.48	2 863	0
	078 Biological and life scientists	2 717	2.36	2 717	0
	224 Chemical technicians	2 749	2.38	2 749	0
051	Geologists	21 021	100.00	21 021	0
052	075 Geologists and geodesists	21 021	100.00	21 021	0
	Marine scientists	3 337	100.00	3 337	0
053 <sup>1</sup>	075 Geologists and geodesists	3 337	100.00	3 337	0
	Physicists and astronomers	23 302	100.00	23 302	0
	049 Nuclear engineers	508	2.18	508	0
	069 Physicists and astronomers	21 778	93.46	21 778	0
	078 Biological and life scientists	1 016	4.36	1 016	0
054 <sup>1</sup>	076 Physical scientists, n.e.c.	1 323	100.00	1 323	0
	Operations and systems researchers and analysts	84 960	100.00	84 960	0
055	056 Industrial engineers	19 869	100.00	19 869	0
	055 Operations and systems researchers and analysts	65 091	76.61	65 091	0
056	056 Industrial engineers	310 711	100.00	310 711	0
	Personnel and labor relations managers	68 001	21.89	68 001	0
	004 Personnel and labor relations managers	1 407	4.5	1 407	0
	027 Personnel training and labor relations specialists	240 534	77.41	240 534	0
	456 Supervisors, personal service occupations	769	2.5	769	0
061 <sup>1</sup>	Chiropractors	14 414	100.00	14 414	0
062 <sup>1</sup>	089 Health diagnosing practitioners, n.e.c.	14 414	100.00	14 414	0
	Dentists	95 228	100.00	91 864	3 364
063 <sup>1</sup>	085 Dentists	95 228	100.00	91 864	3 364
	Ophthalmists	18 052	100.00	17 311	741
064 <sup>1</sup>	087 Ophthalmists	18 052	100.00	17 311	741
	Pharmacists	115 633	100.00	101 624	14 009
065 <sup>1</sup>	096 Pharmacists	115 633	100.00	101 624	14 009
	Physicians, medical and osteopathic	294 869	100.00	267 282	27 587
	084 Physicians	294 869	100.00	267 282	27 587
071 <sup>1</sup>	Podiatrists	6 317	100.00	5 824	493
	088 Podiatrists	6 317	100.00	5 824	493
072 <sup>1</sup>	Veterinarians	20 465	100.00	19 383	1 082
073	086 Veterinarians	20 465	100.00	19 383	1 082
	Health practitioners, n.e.c.	1 017	100.00	1 017	0
074 <sup>1</sup>	089 Health diagnosing practitioners, n.e.c.	1 017	100.00	1 017	0
	Dentists	43 290	100.00	43 290	0
	097 Dentists	43 290	100.00	43 290	0

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with flow 1980 component categories and codes	Experienced civilian labor force	Percent of total civilian labor force	Male	Female
		Experienced civilian labor force	Percent of total civilian labor force	Experienced civilian labor force	Percent of total civilian labor force
075	Registered nurses	880 636	100.00	23 642	855 993
	095 Registered nurses	796 788	90.56	19 702	777 086
	159 Teachers, n.e.c.	2 715	0.31	0	2 715
	207 Licensed practical nurses	89 147	10.02	2 955	86 192
076	447 Nursing aides, orderlies, and attendants	80 459	100.00	29 185	51 274
	Therapists	8 653	11.00	5 837	2 816
	098 Rehabilitation therapists	8 653	100.00	5 837	2 816
	099 Occupational therapists	16 724	190.00	2 335	14 389
	103 Physical therapists	17 435	200.00	4 970	12 464
	104 Speech therapists	22 571	260.00	10 620	11 951
	105 Therapists, n.e.c.	5 292	6.08	1 066	4 226
	163 Counselors, educational and vocational	125 786	100.00	34 865	90 921
	Clinical laboratory technologists and technicians	125 786	100.00	34 865	90 921
	203 Clinical laboratory technologists and technicians	125 786	100.00	34 865	90 921
080 <sup>1</sup>	Dental hygienists	16 932	100.00	1 011	15 921
	204 Dental hygienists	16 932	100.00	1 011	15 921
081 <sup>1</sup>	Health record technologists and technicians	11 911	100.00	926	10 985
	205 Health record technologists and technicians	11 911	100.00	926	10 985
082 <sup>1</sup>	Radiologic technologists and technicians	55 899	100.00	17 667	38 232
	206 Radiologic technologists and technicians	55 899	100.00	17 667	38 232
083 <sup>1</sup>	235 Technicians, n.e.c.	695	1.24	0	695
084	Therapy assistants	3 462	100.00	1 152	2 310
	446 Health aides, except nursing	63 952	100.00	27 807	36 145
085 <sup>1</sup>	Health technicians and technicians, n.e.c.	63 952	100.00	27 807	36 145
	208 Health technicians and technicians, n.e.c.	228 907	100.00	222 228	6 679
086 <sup>1</sup>	Clergy	37 787	100.00	16 595	21 192
	Religious workers, n.e.c.	37 787	100.00	16 595	21 192
090 <sup>1</sup>	177 Religious workers, n.e.c.	37 787	100.00	16 595	21 192
091	Economists	70 086	100.00	62 020	8 066
	027 Accountants and auditors	8 493	13.54	9 493	15 311
	028 Management analysts	50 367	71.86	43 034	7 333
	166 Economists	9 631	100.00	7 333	2 298
092	Political scientists	963	100.00	725	238
	169 Social scientists, n.e.c.	963	100.00	725	238
093 <sup>1</sup>	Psychologists	29 545	100.00	18 095	11 450
	167 Psychologists	29 545	100.00	18 095	11 450
094 <sup>1</sup>	Sociologists	1 406	100.00	900	506
	Urban and regional planners	9 585	100.00	8 375	1 210
095 <sup>1</sup>	173 Urban planners	9 585	100.00	8 375	1 210
	Social scientists, n.e.c.	3 706	100.00	2 612	1 094
096	168 Social scientists, n.e.c.	3 706	100.00	2 612	1 094
	Social workers	232 475	100.00	85 842	146 633
100 <sup>1</sup>	174 Social workers	232 475	100.00	85 842	146 633
101	Recreation workers	55 555	100.00	32 505	23 050
	019 Managers and administrators, n.e.c.	15 302	27.36	4 839	10 463
	175 Recreation workers	40 253	72.64	21 542	18 666
102 <sup>1</sup>	Agriculture teachers	4 877	100.00	4 877	0
	136 Agriculture and forestry teachers	4 877	100.00	4 877	0
103 <sup>1</sup>	Atmospheric, earth, marine, and space teachers	4 445	100.00	4 445	0
	113 Earth, environmental, and marine science teachers	4 445	100.00	4 445	0
104	Biology teachers	21 767	100.00	17 156	4 611
	114 Biological science teachers	18 446	84.74	13 835	4 611
	133 Medical science teachers	3 321	15.26	3 321	0
105 <sup>1</sup>	Chemistry teachers	16 580	100.00	14 564	2 016
	115 Chemistry teachers	16 580	100.00	14 564	2 016
110 <sup>1</sup>	Physics teachers	14 727	100.00	14 025	702
	116 Physics teachers	14 727	100.00	14 025	702
111 <sup>1</sup>	Engineering teachers	669	100.00	4 55	32
	127 Engineering teachers	669	100.00	4 55	32
	127 Engineering teachers	17 380	100.00	16 365	1 015

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total			Male			Female		
		Experienced labor force	Percent of 1970 category	Percent of 1970 category	Experienced labor force	Percent of 1970 category	Percent of 1970 category	Experienced labor force	Percent of 1970 category	Percent of 1970 category
112 <sup>1</sup>	Mathematics teachers.....	27 388	100.00	27 008	5 290	100.00	100.00	24 924	100.00	100.00
113	128 Mathematical science teachers.....	26 821	97.93	21 531	5 290	100.00	100.00	24 924	100.00	100.00
	129 Computer science teachers.....	567	2.07	567	0	0	0	9 584	100.00	100.00
114 <sup>2</sup>	Health specialties teachers.....	20 380	100.00	15 075	14 205	100.00	100.00	9 584	100.00	100.00
	133 Medical science teachers.....	10 145	34.53	9 045	13 205	100.00	100.00	9 584	100.00	100.00
	134 Health specialties teachers.....	10 235	65.47	6 030	13 205	100.00	100.00	9 584	100.00	100.00
	Psychology teachers.....	13 220	100.00	9 334	13 205	100.00	100.00	9 584	100.00	100.00
	118 Psychology teachers.....	12 665	95.80	9 334	13 205	100.00	100.00	9 584	100.00	100.00
	134 Health specialties teachers.....	555	4.20	0	0	0	0	9 584	100.00	100.00
115 <sup>3</sup>	Business and commerce teachers.....	14 392	100.00	9 654	4 738	100.00	100.00	2 661	100.00	100.00
116 <sup>4</sup>	135 Business, commerce and marketing teachers.....	14 392	100.00	9 654	4 738	100.00	100.00	2 661	100.00	100.00
120 <sup>5</sup>	Economics teachers.....	10 374	100.00	9 584	790	100.00	100.00	1 476	100.00	100.00
121 <sup>6</sup>	119 Economics teachers.....	10 374	100.00	9 584	790	100.00	100.00	1 476	100.00	100.00
122	History teachers.....	17 183	100.00	14 148	3 035	100.00	100.00	1 831	100.00	100.00
123 <sup>7</sup>	125 History teachers.....	17 183	100.00	14 148	3 035	100.00	100.00	1 831	100.00	100.00
124	Sociology teachers.....	7 090	100.00	5 363	1 727	100.00	100.00	509	100.00	100.00
125 <sup>8</sup>	125 Sociology teachers.....	7 090	100.00	5 363	1 727	100.00	100.00	509	100.00	100.00
126 <sup>9</sup>	Social science teachers.....	13 054	100.00	10 358	2 696	100.00	100.00	1 531	100.00	100.00
130 <sup>10</sup>	126 Social science teachers, n.e.c.....	6 077	46.55	5 171	899	100.00	100.00	1 531	100.00	100.00
131 <sup>11</sup>	146 Social work teachers.....	6 506	49.84	4 707	1 798	100.00	100.00	1 531	100.00	100.00
132 <sup>12</sup>	Art, drama, and music teachers.....	31 753	100.00	20 328	11 415	100.00	100.00	36 242	100.00	100.00
133	137 Art, drama, and music teachers.....	31 753	100.00	20 328	11 415	100.00	100.00	36 242	100.00	100.00
134 <sup>13</sup>	Coaches and physical education teachers.....	17 554	100.00	12 819	4 735	100.00	100.00	2 012	100.00	100.00
135	138 Physical education teachers.....	13 815	78.70	9 089	4 735	100.00	100.00	2 012	100.00	100.00
140 <sup>14</sup>	199 Athletes.....	3 739	21.30	3 739	0	0	0	2 012	100.00	100.00
141 <sup>15</sup>	Education teachers.....	7 800	100.00	5 435	2 365	100.00	100.00	76 09	100.00	100.00
142 <sup>16</sup>	139 Education teachers.....	7 800	100.00	5 435	2 365	100.00	100.00	76 09	100.00	100.00
143 <sup>17</sup>	English teachers.....	40 936	100.00	22 627	17 309	100.00	100.00	103	100.00	100.00
144 <sup>18</sup>	143 English teachers.....	40 936	100.00	22 627	17 309	100.00	100.00	103	100.00	100.00
145 <sup>19</sup>	Foreign language teachers.....	22 155	100.00	11 507	10 648	100.00	100.00	2 012	100.00	100.00
146 <sup>20</sup>	144 Foreign language teachers.....	22 155	100.00	11 507	10 648	100.00	100.00	2 012	100.00	100.00
147 <sup>21</sup>	Home economics teachers.....	4 571	100.00	335	4 236	100.00	100.00	1 531	100.00	100.00
148 <sup>22</sup>	149 Home economics teachers.....	4 571	100.00	335	4 236	100.00	100.00	1 531	100.00	100.00
149 <sup>23</sup>	Law teachers.....	3 067	100.00	2 857	210	100.00	100.00	1 531	100.00	100.00
150 <sup>24</sup>	145 Law teachers.....	3 067	100.00	2 857	210	100.00	100.00	1 531	100.00	100.00
151 <sup>25</sup>	Theology teachers.....	5 325	100.00	4 382	943	100.00	100.00	1 531	100.00	100.00
152 <sup>26</sup>	147 Theology teachers.....	5 325	100.00	4 382	943	100.00	100.00	1 531	100.00	100.00
153 <sup>27</sup>	Trade, industrial, and technical teachers.....	3 529	100.00	2 792	737	100.00	100.00	1 531	100.00	100.00
154 <sup>28</sup>	148 Trade and industrial teachers.....	3 529	100.00	2 792	737	100.00	100.00	1 531	100.00	100.00
155 <sup>29</sup>	Miscellaneous teachers, college and university.....	20 012	100.00	14 339	5 673	100.00	100.00	1 531	100.00	100.00
156 <sup>30</sup>	117 Natural science teachers, n.e.c.....	2 716	14.33	2 868	0	0	0	1 531	100.00	100.00
157 <sup>31</sup>	124 Political science teachers.....	2 358	100.00	2 358	0	0	0	1 531	100.00	100.00
158 <sup>32</sup>	137 Art, drama, and music teachers.....	7 139	34.67	4 302	2 837	100.00	100.00	1 531	100.00	100.00
159 <sup>33</sup>	153 Teachers, postsecondary, n.e.c.....	146 220	100.00	101 484	44 736	100.00	100.00	1 531	100.00	100.00
160 <sup>34</sup>	154 Postsecondary teachers, subject not specified.....	146 220	100.00	101 484	44 736	100.00	100.00	1 531	100.00	100.00
161 <sup>35</sup>	Adult education teachers.....	53 892	100.00	28 812	25 040	100.00	100.00	1 531	100.00	100.00
162 <sup>36</sup>	159 Teachers, n.e.c.....	53 892	100.00	28 812	25 040	100.00	100.00	1 531	100.00	100.00
163 <sup>37</sup>	Elementary school teachers.....	1 510 829	100.00	243 518	1 267 311	100.00	100.00	1 531	100.00	100.00
164 <sup>38</sup>	156 Teachers, elementary school.....	1 510 829	100.00	243 518	1 267 311	100.00	100.00	1 531	100.00	100.00
165 <sup>39</sup>	Prekindergarten and kindergarten teachers.....	134 934	100.00	2 846	132 088	100.00	100.00	1 531	100.00	100.00
166 <sup>40</sup>	155 Teachers, prekindergarten and kindergarten.....	134 934	100.00	2 846	132 088	100.00	100.00	1 531	100.00	100.00
167 <sup>41</sup>	Secondary school teachers.....	1 063 313	100.00	536 298	527 015	100.00	100.00	1 531	100.00	100.00
168 <sup>42</sup>	157 Teachers, secondary school.....	1 063 313	100.00	536 298	527 015	100.00	100.00	1 531	100.00	100.00
169 <sup>43</sup>	Teachers, except college and university, n.e.c.....	161 940	100.00	47 796	114 144	100.00	100.00	1 531	100.00	100.00
170 <sup>44</sup>	158 Teachers, special education.....	2 796	100.00	1 32	2 664	100.00	100.00	1 531	100.00	100.00
171 <sup>45</sup>	159 Teachers, n.e.c.....	159 144	100.00	94 27	64 869	100.00	100.00	1 531	100.00	100.00
172 <sup>46</sup>	Agriculture and biological technicians, except health.....	34 571	100.00	23 207	11 364	100.00	100.00	1 531	100.00	100.00
173 <sup>47</sup>	223 Biological technicians.....	34 571	100.00	23 207	11 364	100.00	100.00	1 531	100.00	100.00
174 <sup>48</sup>	Chemical technicians.....	64 320	100.00	54 399	9 921	100.00	100.00	1 531	100.00	100.00
175 <sup>49</sup>	224 Chemical technicians, n.e.c.....	64 320	100.00	54 399	9 921	100.00	100.00	1 531	100.00	100.00
176 <sup>50</sup>	225 Science technicians, n.e.c.....	61 625	95.81	52 365	9 260	100.00	100.00	1 531	100.00	100.00
177 <sup>51</sup>	186 Machine and computer.....	2 695	4.19	2 034	661	100.00	100.00	1 531	100.00	100.00

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total		Male		Female	
		Experienced labor force	Percent of 1970 category	Experienced labor force	Percent of 1970 category	Experienced labor force	Percent of 1970 category
152 <sup>1</sup>	Draftsmen.....	308 109	100.00	283 185	100.00	24 924	100.00
153 <sup>2</sup>	217 Drafting occupations.....	308 109	100.00	283 185	100.00	24 924	100.00
	Electrical and electronic engineering technicians.....	166 175	100.00	156 591	100.00	9 584	100.00
189	Photographers.....	2 636	1.59	2 636	1.68	0	0
213	Electrical and electronic technicians.....	152 994	92.07	143 410	91.58	9 584	100.00
228	Broadcast equipment operators.....	4 745	2.86	4 745	3.03	0	0
235	Technicians, n.e.c.....	5 800	3.49	5 800	3.70	0	0
154	Industrial engineering technicians.....	21 847	100.00	19 186	100.00	2 661	100.00
	056 Industrial engineers.....	2 476	11.33	2 476	12.90	0	0
214	Industrial engineering technicians.....	10 143	46.43	8 683	8.56	1 476	55.36
215	Mechanical engineering technicians.....	8 610	39.41	7 627	31.71	1 476	55.36
225	Science technicians, n.e.c.....	10 143	39.41	7 627	31.71	1 476	55.36
155 <sup>3</sup>	Mechanical engineering technicians.....	14 154	100.00	13 062	100.00	551	100.00
	215 Mechanical engineering technicians.....	13 062	92.31	12 552	92.31	509	100.00
	216 Engineering technicians, n.e.c.....	1 089	7.69	1 089	7.69	42	4.23
156	Mathematical technicians.....	862	100.00	759	100.00	103	100.00
161	Surveyors.....	64 866	100.00	62 474	100.00	2 012	100.00
	063 Surveyors and mapping scientists.....	64 866	100.00	62 474	100.00	2 012	100.00
	216 Engineering technicians, n.e.c.....	3 504	5.43	3 395	5.43	109	5.43
218	Surveying and mapping technicians.....	49 066	76.09	47 535	76.09	1 531	76.09
	Engineering and science technicians, n.e.c.....	191 255	100.00	154 913	100.00	36 342	100.00
214	Industrial engineering technicians.....	2 650	1.39	1 114	7.2	1 536	4.23
216	Engineering technicians, n.e.c.....	162 584	85.01	135 967	87.77	26 617	73.24
225	Science technicians, n.e.c.....	21 654	11.32	14 488	9.35	7 166	19.72
235	Technicians, n.e.c.....	4 367	2.26	3 343	2.16	1 024	2.82
163	Airplane pilots.....	54 413	100.00	53 698	100.00	775	100.00
	159 Teachers, n.e.c.....	1 324	2.43	1 324	2.47	0	0
226	Airplane pilots and navigators.....	53 089	97.57	52 314	97.53	775	100.00
	Air traffic controllers.....	26 815	100.00	25 317	100.00	1 498	100.00
227	Air traffic controllers.....	26 815	100.00	25 317	100.00	1 498	100.00
235	Technicians, n.e.c.....	5 077	100.00	4 825	100.00	252	100.00
235	Technicians, n.e.c.....	5 077	100.00	4 825	100.00	252	100.00
Flight engineers.....		7 012	100.00	6 834	100.00	178	100.00
036	Inspectors and compliance officers, except construction.....	540	7.70	526	7.69	14	7.69
226	Airplane pilots and navigators.....	6 472	92.30	6 308	92.31	164	92.31
Radio operators.....		30 656	100.00	22 668	100.00	7 988	100.00
228	Broadcast equipment operators.....	30 656	100.00	22 668	100.00	7 988	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313	100.00	2 749	100.00	564	100.00
233	Tool programmers, numerical control.....	3 313					

Table 1. The 1970 Occupation Categories and Related Components From The 1990 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percentages may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their main component occupations and codes	Total	Male	Female	
		Experienced civilian labor force	Percent of 1970 category	Experienced civilian labor force	Percent of 1970 category
190	Painters and sculptors	110 150	100.00	69 755	100.00
	185 Designers	17 650	16.02	15 164	21.74
	186 Painters, sculptors, call-artists, and artist printmakers	86 954	78.94	52 711	75.05
	194 Artists, performers, and related workers, n.e.c.	3 093	2.81	607	87
	675 Hand molders and shapers, except jewelers	607	5.5	607	87
	789 Hand painting, coating, and decorating occupations	1 850	1.68	607	87
191	Photographers	69 925	100.00	59 929	100.00
	191 Photographers	64 149	91.74	54 153	90.36
	213 Electrical and electronic technicians	5 776	8.26	5 776	9.64
192	Public relations specialists and publicity writers	79 292	100.00	57 942	100.00
193	Radio and television announcers	22 807	100.00	21 155	100.00
194	Writers, artists, and entertainers, n.e.c.	66 924	100.00	49 981	100.00
	194 Social scientists, n.e.c.	1 168	1.74	802	100.00
	184 Technical writers	17 994	26.87	16 461	70.33
	187 Actors, directors, and related workers, n.e.c.	44 836	66.95	30 059	60.24
195	Research workers, not specified	123 925	100.00	91 157	100.00
	019 Managers and administrators, n.e.c.	94 064	75.85	71 514	80.65
	084 Physicians	1 024	0.83	0	0
	235 Technicians, n.e.c.	28 907	23.33	17 643	19.35
	<b>MANAGERS AND ADMINISTRATORS, EXCEPT FARM</b>				
	Assessors, controllers, and treasurers, local public administration	29 475	100.00	18 141	100.00
	005 Administrators and officials, public administration	27 598	93.63	16 384	89.66
	006 Inspectors and compliance officers, except construction	1 877	6.37	1 757	10.34
202	Bank officers and financial managers	324 010	100.00	266 437	100.00
	007 Financial managers	153 488	47.37	128 235	83.58
	019 Managers and administrators, n.e.c.	109 525	33.82	92 481	84.41
	025 Other financial officers	8 643	2.67	5 208	60.15
	303 Supervisors, general office	12 154	3.75	2 119	17.44
203	Buyers and shippers, farm products	20 930	100.00	20 384	100.00
	026 Purchasing agents and buyers, farm products	20 930	100.00	20 384	100.00
205	Buyers, wholesale and retail, except farm products	184 473	100.00	129 463	100.00
	019 Managers and administrators, n.e.c.	4 123	2.24	4 123	3.18
	026 Purchasing agents and buyers, farm products	1 649	0.89	649	39.41
	029 Buyers, wholesale and retail, except farm products	169 083	91.89	121 217	71.91
	243 Supervisors and proprietors, sales occupations	9 618	5.21	2 474	25.51
210	Credit and collection managers	63 274	100.00	44 572	100.00
	007 Financial managers	55 655	88.13	41 981	94.19
	025 Other financial officers	3 730	5.89	2 501	67.05
	316 Interviewers	2 849	4.36	0	0
211	Federal directors	37 431	100.00	34 782	100.00
	018 Federal directors	37 431	100.00	34 782	100.00
212	Health administrators	88 351	100.00	78 534	100.00
	005 Administrators and officials, public administration	1 436	1.63	1 436	2.94
	014 Administrators, education and related fields	52 267	59.18	21 535	40.00
	015 Managers and administrators, n.e.c.	31 310	35.44	24 407	77.94
	084 Physicians and compliance officers, except construction	716	0.81	716	1.47
	303 Supervisors, general office	638	0.72	638	1.47
213	Construction inspectors, public administration	19 372	100.00	19 060	100.00
	005 Administrators and officials, public administration	19 372	100.00	19 060	100.00
215	Inspectors, except construction, public administration	84 626	100.00	78 534	100.00
	035 Construction inspectors	6 184	7.31	6 184	7.87
	036 Inspectors and compliance officers, except construction	76 367	90.50	70 495	89.76
	166 Economists	614	0.72	614	0.79
	418 Police and detectives, public service	1 207	1.46	1 207	1.57
216	Managers and superintendents, building	85 061	100.00	52 567	100.00
	016 Managers, properties and real estate	84 874	99.78	49 400	93.94
	485 Supervisors, related agricultural occupations	3 187	3.62	3 187	6.06

See footnote at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percentages may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories, with their 1980 component categories, and codes	Total	Percent category	Experienced labor force	Male	Percent category	Experienced labor force
220	Office managers, n.e.c.	227 539	100.00	136 163	100.00	485	36
	005 Administrators and officials, public administration	485	0.21	485	0.36	21	0
	013 Managers, marketing, advertising and public relations	525	0.23	485	0.36	21	0
	016 Managers, properties and real estate	485	0.21	485	0.36	21	0
	019 Managers and administrators, n.e.c.	204 277	89.78	119 203	87.54	80	6
	025 Other financial officers	2 423	1.06	2 423	1.78	106	8
	037 Management related occupations, n.e.c.	485	0.21	485	0.36	21	0
	243 Supervisors and proprietors, sales occupations	12 761	5.61	10 660	7.83	21	0
	274 Sales workers, other commodities	1 535	0.67	485	0.36	67	5
	303 Supervisors, general office	3 111	1.37	485	0.36	67	5
	503 Supervisors, mechanics and repairers	1 454	0.64	1 454	1.07	64	5
221	Officers, pilots and pursers, ship	27 236	100.00	26 747	100.00	485	36
	497 Captains and other officers, fishing vessels	3 738	13.72	3 671	13.73	21	0
	828 Ship captains and mates, except fishing boats	23 498	86.28	23 076	86.27	464	36
222	Officials and administrators, public administration, n.e.c.	257 886	100.00	208 361	100.00	485	36
	003 Legislators	4 735	1.84	4 735	2.27	184	14
	004 Chief executives and officials, public administration	4 059	1.57	4 059	1.95	157	12
	005 Administrators and officials, public administration	217 951	84.51	175 889	84.42	845	64
	008 Personnel and labor relations managers	2 676	1.03	1 353	0.65	79	6
	022 Accountants and auditors	13 538	5.25	10 824	5.19	267	21
	027 Personnel, training, and labor relations specialists	1 353	0.52	1 353	0.65	52	4
	033 Purchasing agents and buyers, n.e.c.	676	0.26	676	0.32	26	2
	036 Inspectors and compliance officers, except construction	10 159	3.94	6 088	2.92	267	21
	179 Judges	2 029	0.79	2 029	0.97	79	6
223	Officials of lodges, societies, and unions	52 824	100.00	44 250	100.00	485	36
	019 Managers and administrators, n.e.c.	45 817	86.72	36 707	82.95	80	6
	022 Personnel, training, and labor relations specialists	3 017	5.71	3 017	6.82	106	8
	034 Business and promotion agents	4 023	7.62	4 023	9.09	157	12
	036 Inspectors and compliance officers, except construction	503	0.95	503	1.14	184	14
224	Postmasters and mail superintendents	36 906	100.00	25 154	100.00	485	36
	017 Postmasters and mail superintendents	36 906	100.00	25 154	100.00	485	36
225	Purchasing agents and buyers, n.e.c.	170 671	100.00	147 255	100.00	485	36
	009 Purchasing managers	15 788	9.25	14 617	9.93	571	44
	016 Buyers, properties and real estate	9 745	5.71	9 745	6.82	371	28
	029 Buyers, wholesale and retail, except farm products	541	0.32	541	0.37	21	0
	033 Purchasing agents and buyers, n.e.c.	144 597	84.72	122 352	83.09	80	6
226	Railroad conductors	41 324	100.00	40 877	100.00	485	36
	019 Managers and administrators, n.e.c.	41 324	100.00	40 877	100.00	485	36
230	Restaurant, cafeteria, and bar managers	341 998	100.00	224 697	100.00	485	36
	009 Purchasing managers	218 059	100.00	165 293	100.00	485	36
231	Sales managers and department heads, retail trade	9 586	4.40	7 496	4.54	485	36
	013 Managers, marketing, advertising and public relations	124 506	57.10	105 698	63.95	485	36
	243 Supervisors and proprietors, sales occupations	83 968	38.51	52 049	31.52	485	36
233	Sales managers, except retail trade	258 353	100.00	249 108	100.00	485	36
	013 Managers, marketing, advertising and public relations	240 326	93.02	233 800	93.85	485	36
	243 Supervisors and proprietors, sales occupations	16 556	6.41	14 381	5.77	485	36
	259 Sales representatives, mining, manufacturing, and wholesale	1 472	0.57	928	0.58	485	36
235	School administrators, college	40 784	100.00	37 715	100.00	485	36
	014 Administrators, education and related fields	33 715	82.67	24 365	78.41	485	36
	019 Managers and administrators, n.e.c.	7 069	17.33	6 709	21.59	485	36
240	School administrators, elementary and secondary	177 711	100.00	129 233	100.00	485	36
	014 Administrators, education and related fields	176 541	99.34	128 669	99.56	485	36
	019 Managers and administrators, n.e.c.	1 170	0.66	564	0.44	485	36
245	Managers and administrators, n.e.c.	3 672 818	100.00	3 244 571	100.00	485	36
	005 Administrators and officials, public administration	4 822	0.13	4 822	0.13	485	36
	007 Financial managers	15 647	0.43	15 035	0.46	485	36
	009 Purchasing managers	45 240	1.23	37 287	1.15	485	36
	013 Managers, marketing, advertising and public relations	601	0.02	601	0.02	485	36
	016 Managers, properties and real estate	2 006 958	54.64	1 825 259	56.26	485	36
	019 Managers and administrators, n.e.c.	5 423	0.15	4 811	0.13	485	36
	025 Other financial officers	4 822	0.13	4 822	0.14	485	36

See footnote at end of table.



Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System --- Con.

Data are the 1970 experience of 100,000 light trucks. Numbers and percentages are not added to total but, where appropriate, are rounded.

1970 Code	1970 Descriptive statement with new and old employment categories and titles	Total	Estimated number of persons in 1970	Estimated number of persons in 1970	Estimated number of persons in 1970
			Estimated number of persons in 1970	Estimated number of persons in 1970	Estimated number of persons in 1970
305*	Brokers	1 845 555	100 00	240 631	1 085 924
	075 Other financial officers	866	05	866	0
	305 Supervisors, financial records processing	2 406	17	240 301	1 940
	337 Bookkeepers, accounting and auditing clerks	1 634 295	99 67	98 06	1 362 984
	386 Statistical clerks	2 598	16	2 598	0
	Cashiers	920 291	100 00	148 840	100 00
310*	276 Cashiers	920 291	100 00	148 840	100 00
	303 Supervisors, general office	13 086	1 42	1 42	642
311*	377 Clerical assistants, social welfare	1 324	100 00	295	1 029
	377 Eligibility clerks, social welfare	1 324	100 00	295	1 029
312	303 Supervisors, general office	120 854	100 00	68 037	51 817
	304 Supervisors, computer equipment operators	88 408	81 43	55 962	42 446
	305 Supervisors, financial records processing	16 001	827	827	827
	307 Supervisors, distribution, scheduling, and adjusting clerks	2 120	13 24	9 937	14 39
	379 General office clerks	3 488	2 89	1 569	551
313*	Collectors, bill and account	56 028	100 00	36 777	1 929
	307 Supervisors, distribution, scheduling, and adjusting clerks	2 175	3 88	675	1 89
	378 Bill and account collectors	53 853	96 12	35 102	18 751
314	Counter clerks, except food	252 295	100 00	83 490	168 805
	312 Sales counter clerks	63 891	64 96	23 377	100 00
	325 Classified ad clerks	15 067	17 86	23 377	28 90
	327 Order clerks	2 672	1 06	2 672	3 20
	336 Records clerks	35 518	14 08	29 388	35 20
	363 Production coordinators	668	26	668	80
	379 General office clerks	1 140	45	668	80
315*	459 Attendants, amusement and recreation facilities	2 672	1 06	2 672	3 20
	Dispatchers and starters, vehicle	668	26	668	80
	359 Dispatchers	65 127	100 00	54 049	11 078
	843 Supervisors, material moving equipment operators	64 587	99 17	53 509	11 078
320	Enumerators and interviewers	73 038	100 00	16 315	56 723
	316 Interviewers	6 659	9 12	1 554	5 105
321	Estimators and investigators, n.e.c.	66 379	90 88	14 761	51 618
	007 Financial managers	286 952	100 00	175 295	111 657
	023 Accountants and auditors	1 169	41	4 825	1 169
	025 Other financial officers	5 773	1 68	4 825	2 73
	043 Management related occupations, n.e.c.	1 669	2 01	1 669	1 754
	059 Engineers, n.e.c.	804	28	804	46
	216 Engineering technicians, n.e.c.	44 811	15 62	44 226	585
	234 Legal assistants	10 596	3 69	2 412	8 184
	259 Sales representatives, mining, manufacturing, and wholesale	4 021	1 40	4 021	2 29
	307 Supervisors, distribution, scheduling, and adjusting clerks	804	28	804	46
	316 Interviewers	604	28	804	46
	327 Order clerks	5 116	1 78	1 608	92
	328 Personnel clerks, except payroll and timekeeping	9 208	3 21	1 608	92
	336 Records clerks	1 585	20	00	00
	372 Expeditors	1 362	1 17	1 608	92
	376 Insurance adjusters, claimants, and investigators	2 362	1 17	1 608	92
	389 Administrative support occupations, n.e.c.	185 427	64 63	105 338	80 089
	633 Supervisors, production occupations	2 921	1 02	28	9 221
	Expeditors and production controllers	223 136	100 00	172 444	50 692
323	307 Supervisors, general office	218	00	00	478
	307 Supervisors, distribution, scheduling, and adjusting clerks	1 232	71	478	0
	359 Dispatchers	1 232	55	1 232	71
	363 Production coordinators	139 485	62 51	112 704	26 781
	385 Stock and inventory clerks	3 557	1 59	3 079	1 79
	373 Expeditors	21 406	32 00	49 886	28 93
	633 Supervisors, production occupations	5 267	2 36	4 311	956

See footnotes at end of table

Table 1 The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System — Con.

For meaning of symbols, see [exit]

	Total	Male	Female
	Experienced labor force 1970 category	Percent of 1970 cuar- ter labor force	Experienced cuar- ter labor force 1970 category
335 <sup>a</sup> Supervisors, general office	398 721	100 00	326 935
336 <sup>a</sup> Supervisors, financial records processing	7 374	1 85	5 001
337 <sup>a</sup> Typists	16 815	4 22	1 250
338 <sup>a</sup> Library clerks	625	16	1 187
339 <sup>a</sup> File clerks	372 064	43 31	67 633
340 <sup>a</sup> Supervisors, production occupations	593	15	593
341 <sup>a</sup> Insurance, adjusters, examiners, and investigators	103 044	100 00	75 546
342 <sup>a</sup> Underwriters	619	60	619
343 <sup>a</sup> Inspectors and compliance officers, except construction	1 238	1 20	1 238
344 <sup>a</sup> Insurance adjusters, examiners, and investigators	99 329	96 39	71 831
345 <sup>a</sup> Investigators and assistants, except insurance	1 458	1 80	1 858
346 <sup>a</sup> Library attendants and assistants	133 691	100 00	28 535
347 <sup>a</sup> Library clerks	130 192	97 38	26 497
348 <sup>a</sup> File clerks	3 498	2 62	2 036
349 <sup>a</sup> Mail carriers, post office	271 501	100 00	249 874
350 <sup>a</sup> Supervisors, distribution, scheduling, and adjusting clerks	1 329	49	1 329
351 <sup>a</sup> Mail carriers, postal service	269 507	99 27	247 880
352 <sup>a</sup> Truck drivers, light	665	24	665
353 <sup>a</sup> Mail handlers, except post office	139 057	100 00	79 495
354 <sup>a</sup> Supervisors, distribution, scheduling, and adjusting clerks	4 140	2 98	4 140
355 <sup>a</sup> Mail clerks, except postal service	134 227	96 53	74 515
356 <sup>a</sup> Messengers	680	50	680
357 <sup>a</sup> Messengers, including telegraph, and office helpers	62 726	100 00	50 221
358 <sup>a</sup> Messenger	62 726	100 00	50 221
359 <sup>a</sup> Mail readers, utilities	35 509	100 00	34 592
360 <sup>a</sup> Meter readers	35 509	100 00	34 592
361 <sup>a</sup> Bookkeeping and billing machine operators	69 214	100 00	7 297
362 <sup>a</sup> Supervisors, financial records processing	831	1 20	0
363 <sup>a</sup> Billing posting, and calculating machine operators	68 383	98 80	7 297
364 <sup>a</sup> Bookkeepers, accounting, and auditing clerks	38 643	100 00	3 388
365 <sup>a</sup> Billing posting, and calculating machine operators	1 297	3 36	678
366 <sup>a</sup> Computer and peripheral equipment operators	37 346	96 64	2 710
367 <sup>a</sup> Supervisors, computer equipment operators	126 847	100 00	89 286
368 <sup>a</sup> Computer operators	9 033	7 12	8 453
369 <sup>a</sup> Data processing equipment repairers	117 163	92 37	80 632
370 <sup>a</sup> Duplicating machine operators	650	51	650
371 <sup>a</sup> Duplicating machine operators	22 450	100 00	9 615
372 <sup>a</sup> Key punch operators	22 450	100 00	9 615
373 <sup>a</sup> Supervisors, general office	298 568	100 00	30 346
374 <sup>a</sup> Peripheral equipment operators	12 385	4 15	723
375 <sup>a</sup> Data entry keyers	26 502	8 86	723
376 <sup>a</sup> Machine operators, n.e.c.	259 682	86 96	28 901
377 <sup>a</sup> Machine operators, n.e.c.	8 921	100 00	4 507
378 <sup>a</sup> Machine operators, n.e.c.	8 921	100 00	4 507
379 <sup>a</sup> Machine operators, n.e.c.	40 299	100 00	12 772
380 <sup>a</sup> Duplicating machine operators	983	2 44	0
381 <sup>a</sup> Mail preparing and paper handling machine operators	14 175	3 361	3 361
382 <sup>a</sup> Office machine operators, n.e.c.	24 649	61 17	9 411
383 <sup>a</sup> Postal clerks, except mail carriers	492	1 22	0
384 <sup>a</sup> Payroll and timekeeping clerks	170 328	100 00	53 265
385 <sup>a</sup> Supervisors, financial records processing	15 779	9 26	8 307
386 <sup>a</sup> Payroll and timekeeping clerks	154 549	90 74	44 956
387 <sup>a</sup> Postal clerks, except mail carriers	327 484	100 00	226 845
388 <sup>a</sup> Supervisors, distribution, scheduling, and adjusting clerks	11 873	3 63	11 873
389 <sup>a</sup> Postal clerks, except mail carriers	315 611	96 37	214 972
390 <sup>a</sup> Proofreaders	31 005	100 00	7 722
391 <sup>a</sup> Real estate appraisers	31 005	100 00	7 722
392 <sup>a</sup> Real estate sales occupations	22 964	100 00	22 027
393 <sup>a</sup> Receptionists	334 835	100 00	17 362
394 <sup>a</sup> Transportation ticket and reservation agents	5 585	1 47	1 437
395 <sup>a</sup> Receptionists	5 585	1 18	833
396 <sup>a</sup> Transportation clerks, n.e.c.	324 520	96 92	15 915
397 <sup>a</sup> Transportation clerks, n.e.c.	2 365	71	0

**Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.**

**Data are the 1970 experienced civilian labor force** Numbers and percents may not add to total because of rounding For meaning of symbols, see text

1970 code	1970 Occupation categories with their 160 component categories and codes	Total		Male		Female	
		Expected labor force	Percent of 1970 category	Expected labor force	Percent of 1970 category	Expected labor force	Percent of 1970 category
3842	Receptionists—Con.	1 182	35	0	0	0	0
	336 Records clerks	591	18	0	0	1 182	37
	447 Nursing aides, orderlies, and attendants	92 684	100.00	1 453	0	0	591
	Secretaries, legal	245	26	0	0	91 231	100.00
	019 Managers and administrators, n.e.c.	92 194	99.47	1 453	0	245	27
	313 Secretaries	245	26	0	0	90 741	99.46
	379 General office clerks	74 739	100.00	0	0	245	27
	Secretaries, medical	74 739	100.00	878	100.00	73 861	100.00
	313 Secretaries	74 739	100.00	878	100.00	73 861	100.00
	Secretaries, n.e.c.	2 761 215	100.00	66 777	100.00	2 694 438	100.00
	019 Managers and administrators, n.e.c.	640	02	0	0	640	02
	303 Supervisors, general office	41 920	152	6 071	9.09	35 849	133
	313 Secretaries	2 695 609	97.62	60 706	90.91	2 634 903	97.79
374	379 General office clerks	23 046	83	0	0	23 046	86
	Shipping and receiving clerks	452 819	100.00	386 345	100.00	66 474	100.00
	276 Cashiers	588	13	588	15	0	0
	307 Supervisors, distribution, scheduling, and adjusting clerks	15 484	3.42	14 113	3.65	1 371	2.06
	327 Order clerks	588	13	588	15	0	0
	337 Bookkeepers, accounting, and auditing clerks	2 056	45	0	0	2 056	3.09
	364 Traffic, shipping, and receiving clerks	404 905	89.42	348 710	90.26	56 195	84.54
	368 Weighers, measurers, and checkers	29 199	6.45	22 346	5.78	6 853	10.31
	Statistical clerks	271 102	100.00	96 637	100.00	174 465	100.00
	234 Legal assistants	1 158	43	695	72	463	27
	328 Personnel clerks, except payroll and timekeeping	12 499	4.61	2 889	2.88	9 718	5.57
	328 Records clerks	40 975	15.11	13 209	13.67	27 766	15.92
	375	337 Bookkeepers, accounting, and auditing clerks	8 330	3.07	0	0	8 330
329 Billing and rate clerks		695	26	695	72	0	0
344 Sales, posting, and calculating machine operators		12 966	4.78	5 562	5.76	7 404	4.24
359 Dining, posting, and calculating machine operators		1 851	68	0	0	1 851	1.06
363 Production coordinators		2 086	77	2 086	2.16	0	0
368 Weighers, measurers, and checkers		921	40	695	72	226	53
379 General office clerks		1 853	273	4 321	4.11	3 239	1.86
386 Statistical clerks		171 785	63.37	62 571	6.44	109 214	463
389 Administrative support occupation, n.e.c.		7 871	2.90	2 781	2.68	5 090	2.92
Stenographers		138 453	106.00	8 647	100.00	129 806	100.00
303 Supervisors, general office		2 440	1.76	0	0	2 440	1.86
314 Stenographers		136 013	98.24	8 647	100.00	127 366	98.12
381		Stock clerks and storekeepers	501 389	100.00	385 256	2.68	116 131
	307 Supervisors, distribution, scheduling, and adjusting clerks	11 468	2.25	0	0	11 468	98
	337 Bookkeepers, accounting, and auditing clerks	569	1	0	0	569	98
	365 Stock and inventory clerks	489 354	97.60	374 931	97.32	114 423	98.53
	Teacher aides, except school monitors	142 407	100.00	13 998	100.00	128 409	100.00
	303 Supervisors, general office	462	32	0	0	462	36
	387 Teachers' aides	141 945	99.88	13 998	100.00	127 947	99.64
	Telegraph operators	13 324	100.00	9 403	100.00	3 921	100.00
	349 Telegraphers	13 324	100.00	9 403	100.00	3 921	100.00
	Telephone operators	445 098	100.00	24 369	100.00	420 709	100.00
	019 Managers and administrators, n.e.c.	41 681	1	0	0	41 681	14
	306 Chief communications operators	403 027	90.55	24 369	100.00	378 658	98.66
	390	Ticket, station, and express agents	106 055	100.00	67 242	100.00	38 813
257 Sales occupations, other business services		5 689	5.36	5 101	7.59	588	1.52
276 Cashiers		6 111	11	0	0	6 111	3.6
303 Supervisors, general office		5 253	4.96	2 319	3.45	2 940	7.58
307 Supervisors, distribution, scheduling, and adjusting clerks		1 301	1.27	0	0	1 301	0
318 Transportation ticket and reservation agents		72 938	68.77	39 418	58.13	33 520	86.36
363 Production coordinators		464	44	464	66	0	0
364 Traffic, shipping, and receiving clerks		19 138	18.05	18 550	27.59	588	1.52
Typists		1 076 386	100.00	62 498	100.00	1 013 888	100.00
303 Supervisors, general office		9 165	85	1 603	2.36	7 558	75
314 Stenographers		9 125	82	2 325	2.58	6 803	73
315 Typists		1 018 078	94.58	51 280	80.05	966 798	95.36
337 Bookkeepers, accounting, and auditing clerks		58	05	0	0	58	06
338 Billing clerks	6 395	59	0	0	6 395	10	
385 Data entry keyers	36 357	3.38	8 615	15.38	26 742	26.4	
1912							
1913							

See footnotes at end of table

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

Data are the 1970 experiment (civilian labor force). Numbers and percents may not add to total because of rounding. For meaning of symbols, see text!

1970 code	1970 Occupation category and title	Total	Male		Female			
			Percent of 1970 civilian labor force	Expected labor force	Percent of 1970 civilian labor force	Expected labor force		
391*	Typists, com	2 907	27	0	0	2 907	26	0
	389 Administrative support occupation, n.e.c.	581	05	0	0	581	09	0
392	Weighers	44 092	100.00	30 707	100.00	13 385	100.00	0
	368 Weighers, measurers, and checkers	44 092	100.00	30 707	100.00	13 385	100.00	0
394	Miscellaneous clerical workers	519 144	100.00	187 696	100.00	331 448	100.00	0
	234 Legal assistants	3 108	60	3 108	166	0	0	0
	316 Interviewers	9 534	184	6 215	331	3 319	100	0
	318 Transportation ticket and reservation agents	1 865	36	1 865	99	0	0	0
	323 Information clerks, n.e.c.	7 825	343	11 187	596	6 638	200	0
	326 Correspondence clerks	6 722	129	4 351	232	2 371	72	0
	327 Order clerks	4 088	79	1 243	66	2 845	86	0
	328 Personnel clerks, except payroll and timekeeping	7 407	143	1 243	66	6 164	186	0
	335 File clerks	622	12	622	33	0	0	0
	336 Records clerks	10 662	205	4 972	265	5 690	172	0
	337 Bookkeepers, accounting, and auditing clerks	1 865	36	1 865	99	0	0	0
	343 Cost and rate clerks	13 706	264	11 809	629	1 897	57	0
	347 Office machine operators, n.e.c.	622	12	622	33	0	0	0
	363 Production coordinators	2 813	54	1 865	99	948	29	0
	364 Traffic, shipping, and receiving clerks	8 080	156	8 080	430	0	0	0
	368 Weighers, measurers, and checkers	9 797	189	9 323	497	474	14	0
	374 Material recording, scheduling, and distributing clerks	13 622	262	7 456	397	6 164	186	0
	378 Bill and account collectors	2 191	42	1 243	66	948	29	0
	379 General office clerks	30 039	579	8 701	464	21 338	644	0
	387 Teachers' aides	622	12	622	33	0	0	0
	389 Administrative support occupation, n.e.c.	373 956	7203	101 306	5397	272 650	8226	0
	Not specified clerical workers	894 751	100.00	218 124	100.00	666 627	100.00	0
395	037 Management related occupations, n.e.c.	3 861	44	3 861	177	0	0	0
	336 Records clerks	1 930	22	1 930	88	0	0	0
	337 Bookkeepers, accounting, and auditing clerks	1 930	22	1 930	88	0	0	0
	369 Samplers	5 791	65	5 791	285	0	0	0
	379 General office clerks	864 299	9769	198 821	9115	665 478	9883	0
	389 Administrative support occupation, n.e.c.	6 950	79	5 791	285	1 159	17	0
401	CRAFT AND KINDRED WORKERS	7 421	100.00	7 085	100.00	336	100.00	0
	Automobile accessories installers	1 288	1736	1 288	1818	0	0	0
	505 Automobile mechanics, except apprentices	4 677	6302	4 509	6364	168	50	0
	668 Upholsterers	1 456	1962	1 288	1818	168	50	0
402	785 Assemblers	119 399	100.00	83 738	100.00	35 661	100.00	0
	Bakers	7 132	597	0	0	7 132	200	0
	436 Cooks, except short order	2 783	233	1 686	201	1 097	308	0
	633 Supervisors, production occupations	91 620	7673	69 126	8255	22 494	6308	0
	687 Bakers	756	889	7 669	2 743	7 669	24	0
	756 Mating and blending machine operators	5 059	424	5 059	604	0	0	0
	763 Roasting and baking machine operators, food	2 195	184	0	0	2 195	615	0
	795 Miscellaneous hand working occupations	11 109	100.00	10 639	100.00	470	100.00	0
403	Blacksmiths	1 010	909	985	909	25	909	0
	487 Animal caretakers, except farm	9 854	9091	9 854	9091	245	9091	0
404	547 Specialized mechanics and repairers, n.e.c.	32 982	100.00	32 465	100.00	517	100.00	0
	Boiler makers	982	299	970	299	12	299	0
	036 Inspectors and compliance officers, except construction	1 963	597	1 939	597	24	597	0
	503 Supervisors, mechanics and repairers	28 956	8806	28 066	8806	8806	8806	0
	643 Boiler makers	491	149	485	149	6	149	0
	645 Patternmakers and model makers, metal	491	149	485	149	6	149	0
405	777 Miscellaneous machine operators, n.e.c.	36 034	100.00	16 014	100.00	22 020	100.00	0
	Bookbinders	1 601	421	411	256	1 190	541	0
	679 Bookbinders	33 231	8737	14 782	9231	18 448	8378	0
	737 Miscellaneous printing machine operators	3 202	642	821	513	2 381	1081	0
410*	Bricklayers and stonemasons, except apprentices	186 210	100.00	184 009	100.00	2 201	100.00	0
	553 Supervisors, brickmasons, stonemasons, and tile setters	10 123	544	10 123	550	0	0	0
	563 Brickmasons, brickmasons, stonemasons, and tile setters	173 705	9328	171 504	9320	2 201	100.00	0
	599 Construction trades, n.e.c.	2 382	128	2 382	129	0	0	0
411*	Brickmason and stonemason apprentices	4 244	100.00	4 085	100.00	159	100.00	0
	564 Brickmason and stonemason apprentices	4 244	100.00	4 085	100.00	159	100.00	0

564 Brickmason and



Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force
		Experienced labor force	Percent of 1970 civilian labor force	Experienced labor force	Percent of 1970 civilian labor force
412	Builder operators, except machine operators, n.e.c.	104 897	100.0	1 368	100.0
	599 Construction trades supervisors, n.e.c.	1 670	1.58	0	0
	814 Motor transportation occupations, n.e.c.	1 113	1.06	0	0
	855 Grader, dozer, and scraper operators	61 126	58.27	456	33.33
	856 Industrial truck and tractor equipment operators	40 988	39.07	912	66.67
413	Cabinetmakers, except apprentices	74 791	100.0	4 023	100.0
	567 Carpenters, except apprentices	2 041	2.73	0	0
	633 Supervisors, production occupations	680	96	0	0
	657 Cabinet makers and bench carpenters	72 069	96.36	4 023	100.0
415	Carpenters, except apprentices	970 405	100.0	12 474	100.0
	558 Carpenters, except apprentices and related workers	62 704	6.46	1 386	11.11
	559 Carpenters, except apprentices	3 128	3.2	0	0
	567 Carpenters, except apprentices	903 167	93.07	9 702	77.78
	785 Assemblers	1 386	1.4	0	0
416	Carpenter apprentices	10 422	100.0	177	100.0
	599 Carpenter apprentices	10 422	100.0	177	100.0
420	Carpenter installers	49 347	100.0	851	100.0
	566 Carpet installers	49 347	100.0	851	100.0
421	Cement and concrete finishers	80 135	100.0	79 041	100.0
	558 Construction trades supervisors, n.e.c.	1 801	2.25	25	2.25
	588 Concrete and masonry finishers	78 334	97.75	1 069	97.75
422	Compositors and typesetters, except apprentices	166 078	100.0	140 186	100.0
	633 Supervisors, production occupations	11 170	6.73	7 97	7.97
	724 Printing machine operators	70 771	42.61	59 202	42.23
	735 Proofreaders and lithographers	1 117	6.7	1 117	80
	736 Typesetters and compositors	83 020	49.99	68 697	49.00
423	Printing trade apprentices, except printing press	6 635	6.262	373	55.32
	734 Printing machine operators	4 084	61.55	61 54	61.54
	736 Typesetters and compositors	2 042	30.78	1 927	30.77
	737 Miscellaneous printing machine operators	511	7.70	482	7.69
424	Press, derrick, and hoist operators	169 424	100.0	2 212	100.0
	843 Supervisors, material moving equipment operators	2 300	1.38	0	0
	844 Operating engineers	7 574	4.47	0	0
	848 Hoist and winch operators	9 905	5.85	0	0
	849 Crane and tower operators	141 458	83.49	0	0
	856 Industrial truck and tractor equipment operators	583	3.4	0	0
	859 Miscellaneous material moving equipment operators	7 574	4.47	0	0
425	Decorators and window dressers	76 626	100.0	32 578	100.0
	185 Designers	76 626	100.0	32 578	100.0
426	Dental laboratory technicians	28 867	100.0	22 285	100.0
	633 Supervisors, production occupations	357	1.93	0	0
	678 Dental laboratory and medical appliance technicians	28 310	98.07	21 728	97.30
430	Electricians, except apprentices	491 603	100.0	482 041	100.0
	533 Miscellaneous electrical and electronic equipment	9 644	1.95	0	0
	555 Supervisors, electricians and power transmission installers	29 988	6.10	0	0
	556 Electricians, except apprentices	450 859	91.55	441 233	91.53
	689 Inspectors, testers, and graders	2 011	4.1	26	7.36
431	Electrician apprentices	22 023	100.0	21 779	100.0
	576 Electrician apprentices	22 023	100.0	21 779	100.0
433	Electric power line and cable installers and repairers	110 310	100.0	108 736	100.0
	523 Electric power lines, communications and industrial equipment	1 742	1.58	25	1.58
	533 Miscellaneous electrical and electronic equipment	1 742	1.58	25	1.58
	555 Supervisors, electricians and power transmission installers	5 806	5.26	83	5.26
	577 Electrical power installers and repairers	100 440	91.05	99 007	91.05
	689 Inspectors, testers, and graders	580	5.3	8	5.3
434	Electroplaters and electroplating	7 593	100.0	7 280	100.0
	737 Miscellaneous printing machine operators	7 593	100.0	7 280	100.0
435	Engravers, except photogravers	9 622	100.0	6 971	100.0
	649 Engravers, metal	9 622	100.0	6 971	100.0

See footnotes at end of table

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force
		Experienced labor force	Percent of 1970 civilian labor force	Experienced labor force	Percent of 1970 civilian labor force
436	Excavating, grading, and road machine operators, except machine operators, n.e.c.	262 551	100.0	2 950	100.0
	548 Construction trades supervisors, n.e.c.	2 810	1.07	0	0
	549 Drivers, surfacing, and lamping equipment operators	5 052	1.93	0	0
	549 Drivers, earth	1 124	4.3	0	0
	599 Construction trades, n.e.c.	6 181	2.32	0	0
	639 Miscellaneous plant and system operators	2 810	1.07	0	0
	756 Mixing and blending machine operators	2 248	86	0	0
	844 Operating engineers	115 893	44.14	2 950	100.0
	855 Grader, dozer, and scraper operators	67 991	25.90	67 991	25.90
	856 Industrial truck and tractor equipment operators	18 831	7.15	0	0
	860 Construction laborers	7 867	3.00	0	0
	860 Construction laborers	1 124	4.3	0	0
440	Floor layers, except tile setters	24 201	100.0	23 758	100.0
	565 Tile setters, hard and soft	24 201	100.0	23 758	100.0
	566 Carpet installers	7 562	31.25	7 562	31.25
	567 Carpenters, except apprentices	7 562	31.25	7 562	31.25
	599 Construction trades, n.e.c.	15 126	62.50	14 949	62.50
441	Blue-collar worker supervisors, n.e.c.	1 719 811	100.0	1 580 965	100.0
	015 Managers and administrators, n.e.c.	3 515	0.4	0	0
	035 Construction inspectors	3 515	0.4	0	0
	243 Supervisors and proprietors, sales occupations	3 515	0.4	0	0
	303 Supervisors, general office	715	0.4	0	0
	417 Supervisors, distribution, scheduling, and adjusting clerks	18 586	1.08	0	0
	417 Supervisors, guards	1 430	0.8	0	0
	448 Supervisors, cleaning and building service workers	6 444	3.7	0	0
	485 Supervisors, related agricultural occupations	19 301	1.12	0	0
	494 Supervisors, forestry and logging workers	1 430	0.8	0	0
	503 Supervisors, mechanics and repairers	50 776	2.95	49 326	3.12
	555 Supervisors, carpenters and related workers	2 145	1.2	14	1.4
	557 Supervisors, plumbers, painters, and steamfitters	1 430	0.8	0	0
	559 Construction trades supervisors, n.e.c.	163 020	9.48	160 844	10.18
	633 Supervisors, production occupations	29 309	1.70	29 309	1.85
	633 Supervisors, production occupations	1 375 878	80.00	1 375 878	80.00
	633 Supervisors, motor vehicle operators	21 456	1.25	20 731	1.31
	633 Supervisors, material moving equipment operators	14 297	8.3	14 297	9.0
	663 Supervisors, landers, equipment cleaners, and laborers, n.e.c.	3 584	2.1	2 859	1.8
	663 Supervisors, landers, equipment cleaners, and laborers, n.e.c.	3 584	2.1	2 859	1.8
442	Egg and fanner operators	17 109	100.0	16 287	100.0
	713 Egg machine operators	16 023	93.65	15 201	93.33
	719 Machine operators, not specified	1 086	6.35	1 086	6.67
443	Furniture and wood finishers	23 623	100.0	19 415	100.0
	658 Furniture and wood finishers	23 623	100.0	19 415	100.0
444	Furners	3 415	100.0	2 810	100.0
	674 Miscellaneous precision apparel and fabric workers	3 415	100.0	2 810	100.0
445	Glaziers	27 503	100.0	26 582	100.0
	514 Automobile body and related repairers	5 500	20.0	5 500	20.0
	589 Glaziers	22 003	80.00	21 082	80.00
446	Heat treating equipment operators	22 302	100.0	21 642	100.0
	724 Heat treating equipment operators	22 302	100.0	21 642	100.0
450	Inspectors, scalers, and graders, log and lumber	19 275	100.0	17 087	100.0
	756 Lumber cutting and logging occupations	4 618	23.96	4 618	23.96
	756 Lumber cutting and logging occupations	4 618	23.96	4 618	23.96
	799 Graders and sorters, except agricultural	9 965	51.70	9 236	50.75
452	Inspectors, n.e.c.	128 205	100.0	118 018	100.0
	035 Construction inspectors	21 033	16.41	21 033	16.41
	036 Inspectors and compliance officers, except construction	32 134	25.06	32 134	25.06
	208 Health technologists and technicians, n.e.c.	2 921	2.28	2 921	2.28
	216 Fire inspection and fire prevention occupations	2 337	1.82	2 337	1.82
	689 Inspectors, testers, and graders	20 449	15.95	20 449	15.95
	796 Production inspectors, checkers, and examiners	46 316	36.13	36 808	31.19
	797 Production inspectors, checkers, and examiners	1 753	1.37	1 753	1.37
	799 Graders and sorters, except agricultural	1 263	.99	584	.46

See footnotes at end of table

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see left.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Experienced civilian labor force	Percent of 1970 civilian labor force	Male	Female
				Experienced civilian labor force	Percent of 1970 civilian labor force
453	Jewelers and watchmakers	30 431	100.00	38 573	100.00
	235 Technicians, n.e.c.	286	0	180	0
	243 Supervisors and proprietors, sales occupations	603	1.99	386	6.38
	535 Camera, watch, and musical instrument repairers	20 404	67.1	1443	3.6
	547 Specified mechanics and repairers, n.e.c.	2 417	8.0	1 718	35.29
	647 Precision stones and metals workers (jewelers)	16 731	55.1	2 981	58.82
454	Jeb and die setters, metal	34 131	100.00	41 704	100.00
	518 Industrial machinery repairers	4 168	12.0	4 168	10.0
	531 Tool and die makers, except apprentices	11 910	34.9	12 394	35.7
	533 Lathes and turning, metal, plastic, stone, and glass working	64 967	190.0	69 084	164.9
	715 Miscellaneous occupations	13 103	38.4	14 391	36.5
455	Leatherworkers	53 042	100.00	59 624	100.00
	803 Leatherworking occupations	53 042	100.00	59 624	100.00
456	Leatherworkers, furriers	14 375	100.00	14 375	100.00
	803 Leatherworking occupations	14 375	100.00	14 375	100.00
461	Machinists, except apprentices	404 690	100.00	391 595	96.8
	518 Industrial machinery repairers	6 814	1.7	6 814	1.7
	547 Specified mechanics and repairers, n.e.c.	4 118	1.0	4 118	1.0
	637 Machine tool operators, except auto milers	391 595	96.8	378 349	96.6
	899 Inspectors, testers, and graders	1 048	0.3	1 048	0.3
462	Machinists, apprentices	10 385	100.00	10 103	97.3
	630 Machine tool operators	10 385	100.00	10 103	97.3
470	Air conditioning, heating, and refrigeration mechanics	128 251	100.00	127 089	99.1
	503 Supervisors, mechanics and repairers	7 720	6.0	7 720	6.0
	526 Household appliance and power tool repairers	1 188	0.9	1 188	0.9
	534 Heating, air conditioning, and refrigeration mechanics	119 343	93.0	118 181	99.9
471	Aircraft mechanics	155 242	100.00	150 475	97.0
	216 Engineering technicians, n.e.c.	1 281	0.8	1 281	0.8
	503 Supervisors, mechanics and repairers	9 695	6.2	9 695	6.2
	508 Aircraft engine mechanics	104 657	67.4	99 890	64.8
	515 Aircraft mechanics, except engine	14 727	9.4	14 727	9.4
	533 Miscellaneous electrical and electronic equipment repairers	2 561	1.6	2 561	1.6
	547 Specified mechanics and repairers, n.e.c.	640	0.4	640	0.4
	548 Precision assemblies, metal	640	0.4	640	0.4
	651 Sheet metal workers, except apprentices	4 482	2.9	4 482	2.9
	689 Inspectors, testers, and graders	12 166	7.8	12 166	7.8
	785 Assemblers	640	0.4	640	0.4
	786 Production inspectors, checkers, and examiners	3 842	2.4	3 842	2.4
472	Automotive body repairers	117 246	100.00	115 822	98.8
	019 Managers and administrators, n.e.c.	1 012	0.8	1 012	0.8
	503 Supervisors, mechanics and repairers	8 092	6.9	8 092	6.9
	514 Automobile body and related repairers	108 162	92.2	106 718	97.1
	Automotive mechanics, except apprentices	874 654	100.00	862 594	98.7
	603 Supervisors, mechanics and repairers	9 170	0.8	9 170	0.8
	545 Automobile mechanics, except apprentices	674 234	77.0	662 174	76.7
	507 Bus, truck, and stationary engine mechanics	166 362	19.0	166 362	19.0
	514 Automobile body and related repairers	4 585	0.5	4 585	0.5
	516 Heavy equipment mechanics	3 330	0.4	3 330	0.4
	518 Industrial machinery repairers	655	0.7	655	0.7
	526 Household appliance and power tool repairers	5 240	0.6	5 240	0.6
	533 Miscellaneous electrical and electronic equipment repairers	7 860	0.9	7 860	0.9
	689 Inspectors, testers, and graders	1 965	0.2	1 965	0.2
474	Automotive mechanic apprentices	3 566	100.00	3 566	100.00
	506 Automobile mechanic apprentices	1 231	34.3	1 231	34.3
	507 Bus, truck, and stationary engine mechanics	54 57	1 946	54 57	1 946
	514 Automobile body and related repairers	389	10.9	389	10.9
475	Data processing machine repairers	34 187	100.00	33 129	96.9
	525 Data processing equipment repairers	29 955	86.1	28 395	84.8
	536 Office machine repairers	4 232	12.0	4 732	13.9
480	Farm implement mechanics	36 221	100.00	35 768	98.8
	517 Farm equipment mechanics	36 221	100.00	35 768	98.8

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see left.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Experienced civilian labor force	Percent of 1970 civilian labor force	Male	Female
				Experienced civilian labor force	Percent of 1970 civilian labor force
481	Heavy equipment mechanics, including diesel	632 830	100.00	620 980	98.1
	503 Supervisors, mechanics and repairers	30 205	4.8	29 598	4.7
	507 Bus, truck, and stationary engine mechanics	40 041	6.3	39 344	6.2
	508 Aircraft engine mechanics	3 934	0.6	3 934	0.6
	516 Heavy equipment mechanics	91 271	14.4	89 180	14.3
	517 Farm equipment mechanics	5 246	0.8	5 246	0.8
	518 Industrial machinery repairers	318 976	50.4	314 097	50.5
	539 Mechanical controls and valve repairers	656	0.1	656	0.1
	543 Elevator installers and repairers	19 016	3.0	19 016	3.0
	547 Specified mechanics and repairers, n.e.c.	51 886	8.2	50 492	8.1
	633 Supervisors, production occupations	67 623	10.6	66 229	10.7
	689 Inspectors, testers, and graders	656	0.1	656	0.1
	Household appliance and accessory installers and mechanics	3 320	0.5	2 623	0.4
	503 Supervisors, mechanics and repairers	133 216	20.9	130 371	20.8
	518 Industrial machinery repairers	4 698	0.7	4 698	0.7
	523 Electronic repairers, communications and industrial equipment	1 175	0.2	1 175	0.2
	526 Household appliance and power tool repairers	2 349	0.4	2 349	0.4
	528 Mechanical controls and valve repairers	69 847	11.0	68 709	10.9
	529 Construction trades supervisors, n.e.c.	26 390	4.2	25 252	4.0
	525 Electrical machinery repairers	2 936	0.5	2 936	0.5
	526 Electrical machinery repairers	2 349	0.4	2 349	0.4
	528 Mechanical controls and valve repairers	1 775	0.3	1 775	0.3
	529 Construction trades supervisors, n.e.c.	19 361	3.1	18 792	3.0
	689 Inspectors, testers, and graders	2 536	0.4	2 536	0.4
483	Loom fixers	22 709	100.00	22 709	100.00
	518 Industrial machinery repairers	22 709	100.00	22 709	100.00
484	Office machine repairers	42 543	100.00	41 788	97.1
	536 Office machine repairers	42 543	100.00	41 788	97.1
485	Radio and television repairers	149 892	100.00	144 167	96.2
	523 Electronic repairers, communications and industrial equipment	149 892	100.00	144 167	96.2
486	Railroad and car shop mechanics	60 116	100.00	59 570	99.1
	503 Supervisors, mechanics and repairers	3 135	5.2	3 135	5.2
	507 Bus, truck, and stationary engine mechanics	13 598	22.6	13 325	22.7
	516 Heavy equipment mechanics	38 680	64.3	38 407	63.4
	517 Electrical power installers and repairers	4 703	7.8	4 703	7.8
	Mechanics, except auto, apprentices	7 590	12.6	7 194	10.8
	507 Bus, truck, and stationary engine mechanics	843	1.4	799	1.1
	536 Locksmiths and safe repairers	843	1.4	799	1.1
	539 Mechanical controls and valve repairers	843	1.4	799	1.1
	544 Millwrights	3 373	5.6	3 197	4.7
	547 Specified mechanics and repairers, n.e.c.	1 687	2.8	1 599	2.5
	Miscellaneous mechanics and repairers	185 014	307.4	176 366	293.4
	503 Supervisors, mechanics and repairers	634	1.1	634	1.1
	523 Electronic repairers, communications and industrial equipment	27 821	46.3	27 280	45.4
	526 Household appliance and power tool repairers	2 538	4.2	2 538	4.2
	533 Miscellaneous electrical and electronic equipment repairers	3 806	6.3	3 806	6.3
	535 Camera, watch, and musical instrument repairers	14 498	24.1	13 957	23.2
	536 Clock and watch repairers	3 713	6.2	3 172	5.3
	538 Clock and watch repairers	12 500	20.7	11 419	18.2
	539 Clock and watch repairers	634	1.1	634	1.1
	547 Specified mechanics and repairers, n.e.c.	5 075	8.4	5 075	8.4
	549 Not specified mechanics and repairers	112 620	187.4	107 215	177.4
	Not specified mechanics and repairers	634	1.1	634	1.1
495	Not specified mechanics and repairers	79 775	100.00	76 745	96.2
	549 Not specified mechanics and repairers	79 775	100.00	76 745	96.2
501	Millers, grain, flour, and feed	7 766	100.00	7 597	97.8
	768 Crustling and grinding machine operators	7 766	100.00	7 597	97.8
502	Millwrights	86 169	100.00	85 169	98.9
	503 Supervisors, mechanics and repairers	1 412	1.6	1 412	1.6
	544 Millwrights	84 757	98.3	83 756	98.3

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Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

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1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 labor force	Percent of 1970 civilian labor force
503	Molders, metal except apprentices	59,401	52,635	6,766	100.00	100.00
	503 Hand molders and shapers, except journeymen	36,445	32,095	4,350	64.29	64.29
	503 Molding machine operators	21,673	19,257	2,416	35.71	35.71
504	Molder apprentices	737	721	16	100.00	100.00
505	Molders, metal except apprentices	16,885	16,159	726	100.00	100.00
	505 Hand molders and shapers, except journeymen	16,885	16,159	726	100.00	100.00
506	Molders, metal except apprentices	29,885	23,025	6,860	100.00	100.00
	506 Hand molders and shapers, except journeymen	29,885	23,025	6,860	100.00	100.00
510	Molders, metal except apprentices	380,531	365,027	15,504	100.00	100.00
	510 Hand molders and shapers, except journeymen	344,646	335,487	9,159	90.57	90.57
	510 Molding machine operators	1,407	1,407	0	0.38	0.38
	510 Molder apprentices	18,300	17,933	367	4.81	4.81
511	Molders, metal except apprentices	1,846	1,828	18	100.00	100.00
	511 Hand molders and shapers, except journeymen	1,846	1,828	18	100.00	100.00
512	Molders, metal except apprentices	11,474	10,266	1,208	100.00	100.00
	512 Hand molders and shapers, except journeymen	11,474	10,266	1,208	100.00	100.00
514	Molders, metal except apprentices	42,913	40,844	2,069	100.00	100.00
	514 Hand molders and shapers, except journeymen	28,949	27,570	1,379	67.46	67.46
	514 Molding machine operators	2,553	2,553	0	6.00	6.00
	514 Molder apprentices	7,146	7,146	0	16.66	16.66
515	Molders, metal except apprentices	3,753	3,753	0	100.00	100.00
	515 Hand molders and shapers, except journeymen	3,753	3,753	0	100.00	100.00
	515 Molding machine operators	2,183	2,183	0	58.18	58.18
	515 Molder apprentices	22,723	22,723	0	604.62	604.62
516	Molders, metal except apprentices	7,522	7,522	0	100.00	100.00
	516 Hand molders and shapers, except journeymen	7,522	7,522	0	100.00	100.00
520	Molders, metal except apprentices	32,598	32,163	435	100.00	100.00
	520 Hand molders and shapers, except journeymen	31,294	30,876	418	96.00	96.00
	520 Molding machine operators	699	647	52	2.14	2.14
521	Molders, metal except apprentices	407,942	403,551	4,391	100.00	100.00
	521 Hand molders and shapers, except journeymen	33,629	33,629	0	8.24	8.24
	521 Molding machine operators	371,867	367,476	4,391	91.16	91.16
	521 Molder apprentices	1,223	1,223	0	0.30	0.30
522	Molders, metal except apprentices	15,697	15,528	169	100.00	100.00
	522 Hand molders and shapers, except journeymen	19,617	19,017	600	125.56	125.56
	522 Molding machine operators	167,273	162,526	4,747	106.50	106.50
	522 Molder apprentices	3,999	3,999	0	2.56	2.56
523	Molders, metal except apprentices	154,260	140,530	13,730	97.60	97.60
	523 Hand molders and shapers, except journeymen	7,301	6,284	1,017	4.74	4.74
	523 Molding machine operators	1,714	1,714	0	1.12	1.12
	523 Molder apprentices	3,038	3,038	0	1.97	1.97
524	Molders, metal except apprentices	21,646	20,213	1,433	100.00	100.00
	524 Hand molders and shapers, except journeymen	69,064	68,216	848	320.00	320.00
	524 Molding machine operators	3,559	3,559	0	16.45	16.45
	524 Molder apprentices	166,463	162,824	3,639	771.00	771.00
525	Molders, metal except apprentices	5,100	5,100	0	100.00	100.00
	525 Hand molders and shapers, except journeymen	17,959	17,959	0	350.00	350.00
	525 Molding machine operators	2,394	2,394	0	47.00	47.00
	525 Molder apprentices	141,010	138,281	2,729	275.00	275.00

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 labor force	Percent of 1970 civilian labor force
536	Molders, metal except apprentices	5,838	5,796	42	100.00	100.00
	536 Hand molders and shapers, except journeymen	922	915	7	15.79	15.79
	536 Molding machine operators	4,916	4,881	35	84.21	84.21
540	Molder apprentices	11,800	11,666	134	100.00	100.00
	540 Hand molders and shapers, except journeymen	907	897	10	7.69	7.69
	540 Molding machine operators	9,894	9,769	125	84.62	84.62
542	Molders, metal except apprentices	34,238	34,238	0	100.00	100.00
	542 Hand molders and shapers, except journeymen	30,346	30,346	0	88.63	88.63
	542 Molding machine operators	2,892	2,892	0	8.45	8.45
	542 Molder apprentices	1,000	1,000	0	2.92	2.92
543	Molders, metal except apprentices	20,758	18,943	1,815	100.00	100.00
	543 Hand molders and shapers, except journeymen	2,046	2,046	0	9.86	9.86
	543 Molding machine operators	18,712	16,897	1,815	89.70	89.70
545	Molders, metal except apprentices	184,394	181,641	2,753	100.00	100.00
	545 Hand molders and shapers, except journeymen	9,680	9,592	88	5.30	5.30
	545 Molding machine operators	17,385	17,385	0	9.43	9.43
	545 Molder apprentices	144,740	142,675	2,065	78.35	78.35
546	Molders, metal except apprentices	5,395	5,395	0	100.00	100.00
	546 Hand molders and shapers, except journeymen	2,897	2,897	0	53.70	53.70
	546 Molding machine operators	3,597	3,597	0	66.30	66.30
547	Molders, metal except apprentices	7,060	6,566	494	100.00	100.00
	547 Hand molders and shapers, except journeymen	5,601	5,107	494	73.33	73.33
	547 Molding machine operators	730	730	0	10.34	10.34
550	Molders, metal except apprentices	84,668	83,451	1,217	100.00	100.00
	550 Hand molders and shapers, except journeymen	6,120	6,120	0	7.23	7.23
	550 Molding machine operators	73,898	72,881	1,017	87.33	87.33
	550 Molder apprentices	3,894	3,894	0	4.61	4.61
551	Molders, metal except apprentices	75,108	74,724	384	100.00	100.00
	551 Hand molders and shapers, except journeymen	71,320	70,724	596	93.76	93.76
	551 Molding machine operators	2,341	2,341	0	3.12	3.12
	551 Molder apprentices	256,071	247,170	8,901	340.00	340.00
552	Molders, metal except apprentices	15,894	15,894	0	100.00	100.00
	552 Hand molders and shapers, except journeymen	232,985	225,702	7,283	1464.00	1464.00
	552 Molding machine operators	7,191	6,382	809	45.30	45.30
554	Molders, metal except apprentices	56,186	55,384	802	100.00	100.00
	554 Hand molders and shapers, except journeymen	3,460	3,460	0	6.25	6.25
	554 Molding machine operators	577	577	0	1.03	1.03
	554 Molder apprentices	52,149	51,327	822	92.71	92.71
560	Molders, metal except apprentices	36,083	35,659	424	100.00	100.00
	560 Hand molders and shapers, except journeymen	611	604	7	1.69	1.69
	560 Molding machine operators	32,414	32,033	381	89.83	89.83
	560 Molder apprentices	3,058	3,022	36	8.47	8.47
561	Molders, metal except apprentices	210,420	205,734	4,686	100.00	100.00
	561 Hand molders and shapers, except journeymen	178,631	176,757	1,874	85.35	85.35
	561 Molding machine operators	11,581	11,581	0	5.51	5.51
	561 Molder apprentices	20,208	20,208	0	9.55	9.55
562	Molders, metal except apprentices	10,210	10,210	0	100.00	100.00
	562 Hand molders and shapers, except journeymen	580	580	0	5.68	5.68
	562 Molding machine operators	9,569	9,569	0	92.18	92.18
563	Molders, metal except apprentices	68,695	68,695	0	100.00	100.00
	563 Hand molders and shapers, except journeymen	639	639	0	0.93	0.93
	563 Molding machine operators	60,706	60,706	0	88.89	88.89
	563 Molder apprentices	7,351	7,351	0	10.70	10.70

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percentages may not add to total because of rounding. For meaning of symbols, see (iv).]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force
571	Craft and kindred workers, n.e.c.	85 052	86 747	8 305	100.00
572	503 Supervisors, mechanics and repairers	735	735	0	100.00
573	515 Aircraft mechanics, except engine	735	735	0	100.00
574	527 Telephone line installers and repairers	2 941	2 941	0	100.00
575	544 Millwrights	735	735	0	100.00
576	547 Specialized mechanics and repairers, n.e.c.	35 287	35 287	0	100.00
577	566 Carpet installers	735	735	0	100.00
578	573 Drywall installers	735	735	0	100.00
579	589 Glaziers	735	735	0	100.00
580	595 Roofers	1 470	1 470	0	100.00
581	597 Structural metal workers	2 205	2 205	0	100.00
582	599 Construction trades, n.e.c.	735	735	0	100.00
583	633 Supervisors, production occupations	735	735	0	100.00
584	643 Boilermakers	735	735	0	100.00
585	645 Patternmakers and model makers, metal	2 205	2 205	0	100.00
586	646 Lay-out workers	735	735	0	100.00
587	657 Cabinet makers and bench carpenters	2 941	2 941	0	100.00
588	658 Miscellaneous precision woodworkers	735	735	0	100.00
589	668 Upholsterers	735	735	0	100.00
590	674 Vice repairers	11 790	11 790	0	100.00
591	675 Hand molders and shapers, except patterners	5 146	5 146	0	100.00
592	687 Bakers	1 470	1 470	0	100.00
593	724 Heat treating equipment operators	1 470	1 470	0	100.00
594	733 Miscellaneous woodworking machine operators	735	735	0	100.00
595	743 Textile cutting machine operators	735	735	0	100.00
596	757 Separating, finishing, and clarifying machine operators	10 483	10 483	0	100.00
597	769 Shing and cutting machine operators	5 146	5 146	0	100.00
598	785 Assemblers	735	735	0	100.00
599	848 Host and wait operators	735	735	0	100.00
600	Former members of the armed forces	35 540	34 025	1 515	100.00
601	905 Unemployed, last job armed forces	35 540	34 025	1 515	100.00
602	OPERATIVES, EXCEPT TRANSPORT	27 453	26 860	593	100.00
603	Asbestos and insulation workers	518	507	11	100.00
604	558 Construction trades supervisors, n.e.c.	26 417	25 846	571	100.00
605	593 Insulation workers	518	507	11	100.00
606	777 Miscellaneous machine operators, n.e.c.	1 124 659	1 124 659	0	100.00
607	Assemblers	4 165	4 165	0	100.00
608	508 Aircraft engine mechanics	24 830	24 830	0	100.00
609	534 Millwrights	222	222	0	100.00
610	633 Supervisors, production occupations	59 274	59 274	0	100.00
611	636 Precision assemblers, metal	188 014	188 014	0	100.00
612	638 Electrical and electronic equipment assemblers	6 797	6 797	0	100.00
613	693 Adjusters and calibrators	831 531	831 531	0	100.00
614	785 Assemblers	4 165	4 165	0	100.00
615	873 Production helpers	8 312	8 312	0	100.00
616	Blasters	8 312	8 312	0	100.00
617	615 Explosives workers	58 662	58 662	0	100.00
618	Bottling and canning operatives	12 483	12 483	0	100.00
619	754 Packaging and filling machine operators	12 483	12 483	0	100.00
620	Surveyor helpers	785 970	785 970	0	100.00
621	866 Helpers, surveyor	23 983	23 983	0	100.00
622	Checkers, examiners, and inspectors, manufacturing	137 892	137 892	0	100.00
623	636 Inspectors and compliance officers, except construction	560 944	560 944	0	100.00
624	689 Inspectors, testers, and graders	71 337	71 337	0	100.00
625	786 Production inspectors, checkers, and examiners	6 797	6 797	0	100.00
626	797 Production testers	831 531	831 531	0	100.00
627	888 Hand packers and packagers	639	639	0	100.00
628	Clothing ironers and pressers	208 672	208 672	0	100.00
629	633 Supervisors, production occupations	582	582	0	100.00
630	747 Pressing machine operators	194 923	194 923	0	100.00
631	748 Laundering and dry cleaning machine operators	13 387	13 387	0	100.00

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percentages may not add to total because of rounding. For meaning of symbols, see (iv).]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force
612	Cutting operatives, n.e.c.	198 879	198 879	0	100.00
613	726 Wood lathe, routing, and planing machine operators	2 945	2 945	0	100.00
614	727 Sawing machine operators	589	589	0	100.00
615	728 Shaping machine operators	30	30	0	100.00
616	729 Milling machine operators	2 356	2 356	0	100.00
617	769 Shaping and cutting machine operators	134 881	134 881	0	100.00
618	786 Hand cutting and trimming occupations	3 534	3 534	0	100.00
619	Drummers, except factory	109 739	109 739	0	100.00
620	833 Supervisors, production occupations	639	639	0	100.00
621	856 Dressmakers	108 100	108 100	0	100.00
622	858 Driers, earth	66 451	66 451	0	100.00
623	614 Driers of wall	41 897	41 897	0	100.00
624	615 Milling machine operators	31 671	31 671	0	100.00
625	733 Miscellaneous woodworking machine operators	877	877	0	100.00
626	869 Construction laborers	1 754	1 754	0	100.00
627	Dry wall installers and lathers	735	735	0	100.00
628	573 Drywall installers	735	735	0	100.00
629	Dyers	50 969	50 969	0	100.00
630	633 Supervisors, production occupations	50 969	50 969	0	100.00
631	756 Mung and blending machine operators	26 588	26 588	0	100.00
632	Filers, polishers, sanders, and buffers	589	589	0	100.00
633	634 Precision grinders, filers, and tool sharpeners	25 999	25 999	0	100.00
634	658 Furniture and wood finishers	131 495	131 495	0	100.00
635	709 Grinding, abrading, buffing, and polishing machine operators	1 258	1 258	0	100.00
636	715 Miscellaneous metal, plastic, stone, and glass working machine operators	6 292	6 292	0	100.00
637	715 Miscellaneous metal, plastic, stone, and glass working machine operators	1 888	1 888	0	100.00
638	715 Miscellaneous metal, plastic, stone, and glass working machine operators	119 539	119 539	0	100.00
639	715 Miscellaneous metal, plastic, stone, and glass working machine operators	629	629	0	100.00
640	719 Milling and casting machine operators	629	629	0	100.00
641	786 Grinding and grinding machine operators	1 258	1 258	0	100.00
642	Furnace tenders, smelters, and pourers, metal	72 206	72 206	0	100.00
643	715 Miscellaneous metal, plastic, stone, and glass working machine operators	611	611	0	100.00
644	766 Furnace, kiln, and oven operators, except food	71 595	71 595	0	100.00
645	Garage workers and gas station attendants	486 228	486 228	0	100.00
646	864 Helpers, mechanics and repairers	3 131	3 131	0	100.00
647	885 Garage and service station related occupations	483 097	483 097	0	100.00
648	Graders and sorters, manufacturing	99 36	99 36	0	100.00
649	799 Graders and sorters, except agricultural	48 828	48 828	0	100.00
650	Produce graders and packers, except factory and farm	34 740	34 740	0	100.00
651	798 Production samplers and weighers	636	636	0	100.00
652	799 Graders and sorters, except agricultural	34 100	34 100	0	100.00
653	Heaters, metal	8 677	8 677	0	100.00
654	724 Heat treating equipment operators	7 470	7 470	0	100.00
655	633 Supervisors, production occupations	191 508	191 508	0	100.00
656	748 Laundering and dry cleaning machine operators	2 013	2 013	0	100.00
657	873 Production helpers	9 063	9 063	0	100.00
658	666 Butchers and butchers, except manufacturing	219 316	219 316	0	100.00
659	873 Production helpers	218 703	218 703	0	100.00
660	Meat cutters and meat cutters	613	613	0	100.00
661	666 Butchers and meat cutters	55 180	55 180	0	100.00
662	Meat cutters and meat cutters	3 316	3 316	0	100.00
663	Meat wrappers, retail trade	3 316	3 316	0	100.00
664	888 Hand packers and packagers	31 723	31 723	0	100.00
665	Metal platers	35 080	35 080	0	100.00
666	723 Metal plating machine operators	35 080	35 080	0	100.00
667	674 Miscellaneous precision apparel and fabric workers	2 478	2 478	0	100.00
668	Mine operators, n.e.c.	175 644	175 644	0	100.00
669	616 Mechanics, properties and real estate	586	586	0	100.00
670	235 Technicians, n.e.c.	586	586	0	100.00
671	518 Heavy equipment mechanics	586	586	0	100.00
672	518 Industrial machinery mechanics	586	586	0	100.00
673	547 Specified mechanics and repairers, n.e.c.	586	586	0	100.00
674	567 Carpenters, except apprentices	586	586	0	100.00

See footnotes at end of table.



Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.

1970 code	1970 Occupation category with their 1980 counterpart category and code	Total		Male		Female	
		Expected civilian labor force	Percent of 1970 category	Expected civilian labor force	Percent of 1970 category	Expected civilian labor force	Percent of 1970 category
690	Machine operatives, miscellaneous specified - Con						
	658 Furniture and wood finishers	574	05	574	07	0	00
	659 Shoe repairers	2 869	25	2 869	35	0	00
	671 Apparel and fabric patternmakers	574	05	574	07	0	00
	672 Hand molders and shapers, except jewelers	572	05	0	0	572	17
	683 Electrical and electronic equipment assemblers	1 146	10	574	07	572	17
	684 Miscellaneous precision workers, n.e.c.	572	05	0	0	572	17
	698 Food balancers	22 351	192	12 625	154	9 726	281
	699 Stationary engineers	8 024	68	574	07	0	00
	699 Miscellaneous plant and system operators	8 024	68	8 024	98	0	00
	704 Lathe and turning machine operators	2 867	25	2 867	35	572	17
	705 Milling and planing machine operators	574	05	574	07	0	00
	706 Punching and stamping press machine operators	12 609	108	7 460	91	5 149	145
	707 Rolling machine operators	2 295	20	2 295	28	0	00
	708 Drilling and boring machine operators	574	05	574	07	0	00
	709 Grinding, abrading, buffing, and polishing machine operators	3 439	30	2 295	28	1 144	33
	713 Forging machine operators	2 295	20	2 295	28	0	00
	715 Miscellaneous metal, plastic, stone, and glass working	13 179	113	6 886	84	6 293	182
	717 Fabricating machine operators, n.e.c.	24 089	203	12 682	154	11 407	315
	719 Molding and casting machine operators	124 944	1072	72 500	839	52 064	1507
	723 Metal plating machine operators	2 866	25	1 772	21	1 144	33
	725 Miscellaneous metal and plastic processing machine operators	14 345	123	13 773	168	572	17
	726 Wood lathe, routing, and planing machine operators	1 148	10	1 148	14	0	00
	728 Shaping and jointing machine operators	3 438	30	1 772	21	1 716	50
	733 Miscellaneous woodworking machine operators	16 834	143	13 773	168	2 861	83
	734 Printing machine operators	4 964	39	2 295	28	2 289	66
	735 Photolithography and lithographers	574	05	574	07	0	00
	737 Miscellaneous printing machine operators	5 723	49	4 017	49	1 716	50
	739 Printing, looping, taping, and weaving machine operators	2 294	20	1 772	21	572	17
	743 Textile cutting machine operators	1 148	10	1 148	14	0	00
	744 Textile machine operators	3 438	30	1 772	21	1 716	50
	745 Shoe machine operators	8 354	71	574	07	8 010	232
	749 Miscellaneous textile machine operators	26 374	214	14 366	175	13 721	397
	753 Conforming and gluing machine operators	45 271	386	24 302	234	21 169	613
	754 Packaging and filling machine operators	44 692	379	24 302	234	26 662	746
	755 Extruding and forming machine operators	25 232	217	19 511	191	5 721	166
	756 Mixing and blending machine operators	18 895	163	18 384	224	572	17
	757 Separating, filtering, and clarifying machine operators	60 250	517	58 534	714	1 716	50
	758 Compressing and compacting machine operators	27 509	236	15 494	189	12 015	348
	759 Painting and paint spraying machine operators	22 941	197	18 364	224	4 577	132
	763 Roasting and baking machine operators, food	1 148	10	1 148	14	0	00
	764 Washing, cleaning, and picking machine operators	8 068	74	8 034	98	572	17
	765 Folding machine operators	28 646	246	13 773	168	14 875	430
	766 Furnace, kiln, and oven operators, except food	12 045	103	9 756	119	2 289	66
	768 Crushing and grinding machine operators	21 805	187	21 233	259	572	17
	770 Slicing and cutting machine operators	27 511	236	16 068	196	11 443	331
785 Miscellaneous machine operators, n.e.c.	408 842	3509	302 988	3637	105 844	3063	
786 Hand tooling and forming occupations	16 526	143	11 477	140	5 149	145	
787 Hand tooling and forming occupations	574	05	574	07	0	00	
789 Hand painting, coating, and decorating occupations	2 292	20	1 148	14	1 144	33	
793 Hand engraving and printing occupations	4 015	35	574	07	0	00	
795 Miscellaneous hand working occupations	4 574	04	3 438	42	572	17	
796 Production inspectors, checkers, and examiners	1 722	15	1 722	21	0	00	
797 Production testers	1 720	15	1 146	14	572	17	
799 Graders and sorters, except agricultural	574	05	574	07	0	00	
848 Hoist and winch operators	574	05	574	07	0	00	
858 Industrial truck and tractor equipment operators	19 487	167	14 920	182	4 577	132	
859 Miscellaneous material moving equipment operators	13 197	113	12 625	154	572	17	
871 Production helpers	6 980	59	05	07	0	00	
872 Stock handlers and baggers	4 591	39	4 591	56	2 289	66	
873 Machine feeders and offshooters	1 722	15	1 722	21	0	00	
883 Freight, stock, and material handlers, n.e.c.	15	1	15	1	1 722	21	
889 Laborers, except construction	10 889	93	6 312	77	4 577	132	

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see (int).

1970 code	1970 Occupation categories with their 1970 occupation categories and codes	Total		Male		Female		
		Experienced million man hours	Percent of 1970 category	Experienced million man hours	Percent of 1970 category	Experienced million man hours	Percent of 1970 category	
692	Machine operators, not specified	641 838	100.00					
	633 Supervisors, production occupations	1 030	16	1 030	22	179 153	100.00	
	679 Bookbinders	731	11	0	0	731	.41	
	706 Punching and stamping press machine operators	2 061	32	2 061	45	0	0	
	709 Grinding, abrading, buffing, and polishing machine operators	1 030	16	1 030	22	0	0	
	715 Miscellaneous metal, plastic, stone, and glass working operators	2 061	32	2 061	45	0	0	
	725 Miscellaneous metal and plastic processing machine operators	1 030	16	1 030	22	0	0	
	737 Miscellaneous printing machine operators	13 761	214	2 061	45	11 700	6.53	
	753 Cementing and gluing machine operators	2 061	32	1 030	22	0	0	
	754 Packaging and filling machine operators	2 061	32	2 061	45	0	0	
	768 Crushing and grinding machine operators	1 030	16	1 030	22	0	0	
	777 Miscellaneous machine operators, n.e.c.	566 782	88.31	413 222	89	153 560	85.71	
	779 Machine operators, not specified	44 675	6.96	32 475	71	11 700	6.53	
	785 Assemblers	1 030	16	1 030	22	0	0	
	785 Miscellaneous material moving equipment operators	1 030	16	1 030	22	0	0	
	812 Production helpers	1 030	16	1 030	22	1 462	82	
	863 Freight, stock, and material handlers, n.e.c.	1 030	16	1 030	22	0	0	
	Miscellaneous operatives	724 586	100.00	498 113	100.00	226 473	100.00	
	694	545 Pest control occupations	27 413	3.78	27 413	5.50	0	0
		514 Automobile body and related repairs	1 337	18	1 337	27	0	0
		516 Industrial machinery repairs	669	9.09	669	13	0	0
		518 Miscellaneous occupations	669	9.09	669	13	0	0
		533 Miscellaneous electrical and electronic equipment repairs	9 361	12.9	9 361	18.8	0	0
539 Mechanical controls and valve repairs		1 337	18	1 337	27	0	0	
547 Specialized mechanics and repairers, n.e.c.		18 951	262	14 041	282	4 910	21.7	
593 Paperhangers		669	9.09	669	13	0	0	
646 Lay-out workers		2 820	36	2 006	40	814	37	
656 Patternmakers and model makers, wood		669	9.09	669	13	0	0	
658 Furniture and wood finishers		1 669	21.9	1 337	27	0	0	
666 Dressmakers		2 824	37	2 674	54	0	0	
669 Shoe repairs		1 337	18	1 337	27	0	0	
674 Miscellaneous production apparel and fabric workers		669	9.09	669	13	0	0	
675 Hand molders and shapers, except jewelers		614	8.08	0	0	614	27	
694 Miscellaneous precision workers, n.e.c.		2 455	34	0	0	2 455	108	
698 Miscellaneous plant and system operators		1 337	18	1 337	27	0	0	
707 Rolling machine operators		669	9.09	669	13	0	0	
714 Numerical control machine operators		669	9.09	669	13	0	0	
717 Fabricating machine operators, n.e.c.		8 637	118	8 023	161	614	27	
719 Molding and casting machine operators		7 355	102	7 355	148	0	0	
728 Shaping and joining machine operators		669	9.09	669	13	614	27	
734 Printing machine operators		1 283	18	669	13	614	27	
737 Miscellaneous printing machine operators	1 951	27	1 337	27	614	27		
743 Textile cutting machine operators	614	8.08	0	0	614	27		
744 Textile sewing machine operators	1 227	16	0	0	1 227	54		
745 Shoe machine operators	1 227	16	669	13	1 941	81		
748 Laundering and dry cleaning machine operators	5 907	82	4 860	94	1 227	54		
749 Miscellaneous textile machine operators	669	9.09	669	13	0	0		
753 Cementing and gluing machine operators	1 337	18	1 337	27	0	0		
757 Sewing and pressing machine operators	4 860	65	4 860	94	0	0		
759 Sewing, pressing, and cladding machine operators	2 006	28	2 006	40	0	0		
763 Compressing and compacting machine operators	669	9.09	669	13	0	0		
764 Washing, cleaning, and picking machine operators	614	8.08	0	0	614	27		
765 Folding machine operators	1 283	18	869	13	614	27		
766 Furnace, melt, and oven operators, except food	3 957	55	3 343	67	614	27		
777 Machine operators, n.e.c.	71 186	983	37 442	752	33 786	14.91		
785 Assemblers	50 626	21.76	96 280	19.33	51 975	25.09		
785 Miscellaneous material moving equipment operators	15 665	6.99	26 076	5.23	23 869	11.86		
787 Hand molding, casting, and forming occupations	14 665	1.16	5 349	1.04	9 316	4.52		
789 Hand painting, coating, and decorating occupations	1 227	0.09	6 385	1.24	7 978	3.92		
793 Hand engraving and printing occupations	6 961	0.54	0	0	2 455	1.08		
					1 227	.54		
					5 524	2.44		

See footnotes at end of table

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

(Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.)

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 category	Experienced civilian labor force	Percent of 1970 category	Experienced civilian labor force
694	Miscellaneous operatives—Con.							
	796 Production inspectors, checkers, and examiners.....	1 896	26	13	1.3	669	11	227
	798 Production samplers and weighers.....	5 853	81	4	1.4	1 841	81	1 841
	799 Graders and sorters, except agricultural.....	6 356	88	2	1.4	2 674	54	3 662
	848 Host and watch operators.....	669	09	13	1.9	669	09	13
	864 Helpers, mechanics and repairers.....	43 460	6 000	8 722	13.6	43 460	6 000	8 722
	865 Helpers, construction trades.....	2 006	28	40	1.4	2 006	28	40
	873 Production helpers.....	129 686	17 900	21 480	13.8	106 977	21 480	22 709
	877 Stock handlers and baggers.....	669	09	13	1.9	669	09	13
	878 Machine feeders and offbearers.....	12 374	171	8 692	1.4	3 662	171	3 662
	883 Freight, stock, and material handlers, n.e.c.....	7 355	102	7 355	1.4	0	0	0
	886 Vehicle washers and equipment cleaners.....	6 017	83	6 017	1.2	0	0	0
	889 Hand packers and packagers.....	1 283	18	669	1.3	614	27	34 370
	889 Laborers, except construction.....	71 143	982	36 773	7.3	105 388	7.3	2 489
	Not specified operatives.....	346 815	100.00	241 427	100.00	105 388	7.3	2 489
695	653 Supervisors, production occupations.....	21 627	624	19 138	7.3	30	0	0
	653 Sheet metal workers, except apprentices.....	736	21	736	3.96	830	0	0
	667 Bakers.....	10 399	300	9 569	3.96	830	0	0
	727 Sewing machine operators.....	830	24	0	0	14 107	13.39	79
	743 Textile cutting machine operators.....	14 107	407	0	0	0	0	0
	748 Textile sewing machine operators.....	736	21	736	3.0	0	0	0
	753 Combing and gilling machine operators.....	736	21	736	3.0	0	0	0
	759 Printing and related machine operators.....	15 457	446	15 457	6.40	0	0	0
	777 Miscellaneous machine operators, n.e.c.....	219 674	63 34	151 628	62.80	68 046	64.57	0
	784 Soldiers and trappers.....	736	21	736	3.0	0	0	0
	785 Assemblers.....	11 416	329	8 097	3.35	3 319	3.15	0
	825 Railroad brake, signal, and switch operators.....	736	21	736	3.0	0	0	0
	859 Miscellaneous material moving equipment operators.....	14 296	412	5 152	2.13	9 128	8.66	0
	869 Construction laborers.....	2 208	4	2 208	91	0	0	0
	873 Production helpers.....	5 527	159	2 208	30	0	0	0
	878 Machine feeders and offbearers.....	736	21	736	3.0	0	0	0
	883 Freight, stock, and material handlers, n.e.c.....	1 660	48	21 346	8.84	1 660	1.57	0
	889 Hand packers and packagers.....	23 006	663	0	0	0	0	0
	889 Laborers, except construction.....	5 758	100.00	5 394	100.00	364	100.00	0
701	Boat operators.....	1 280	22.23	1 192	22.22	81	22.22	0
	498 Fishers.....	4 478	77.77	4 195	77.78	283	77.78	0
703 <sup>1</sup>	Bus drivers.....	287 705	100.00	184 694	100.00	73 011	100.00	0
	Conductors and operators, urban rail transit.....	257 705	100.00	184 694	100.00	73 011	100.00	0
704	465 Public transportation attendants.....	10 413	100.00	10 145	100.00	268	100.00	0
	824 Locomotive operating occupations.....	3 289	31.59	6 941	68.42	183	68.42	0
705	Delivery and route workers.....	690 200	100.00	687 249	100.00	22 851	31.58	0
	806 Truck drivers, light.....	404 285	58.58	382 609	57.34	21 676	94.44	0
	806 Truck drivers, heavy.....	285 915	41.42	284 640	42.66	1 275	5.56	0
706	Fork lift and low motor operatives.....	243 724	100.00	239 204	100.00	4 520	100.00	0
	858 Industrial truck and tractor equipment operators.....	243 724	100.00	239 204	100.00	4 520	100.00	0
710	Rail vehicle operators, n.e.c.....	10 902	100.00	10 728	100.00	174	100.00	0
	824 Locomotive operating occupations.....	9 954	91.30	9 795	91.30	159	91.30	0
	855 Miscellaneous material moving equipment operators.....	34 965	8.70	33 668	8.70	15	8.70	0
711 <sup>1</sup>	Parking attendants.....	52 187	100.00	51 591	100.00	596	100.00	0
	813 Parking lot attendants.....	52 187	100.00	51 591	100.00	596	100.00	0
712	Railroad brake operators and couplers.....	51 580	100.00	50 991	100.00	589	98.84	0
	825 Railroad brake, signal, and switch operators.....	57 153	100.00	56 208	100.00	945	98.84	0
713	Railroad switch operators.....	48 770	85.33	47 964	85.33	806	85.33	0
	825 Railroad brake, signal, and switch operators.....	8 383	14.67	8 244	14.67	139	14.67	0
714 <sup>1</sup>	Taxicab drivers and chauffeurs.....	169 114	100.00	159 330	100.00	784	100.00	0
	699 Taxicab drivers and chauffeurs.....	169 114	100.00	159 330	100.00	784	100.00	0

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

(Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.)

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 category	Experienced civilian labor force	Percent of 1970 category	Experienced civilian labor force
715 <sup>1</sup>	Truck drivers.....	1 559 079	100.00	1 535 670	100.00	23 409	100.00	0
	329 Library clerks.....	1 251	08	1 251	08	0	0	0
	426 Guards and police, except public service.....	3 126	20	3 126	20	0	0	0
	594 Paving, surfacing, and lamping equipment operators.....	625	04	625	04	0	0	0
	599 Construction trades, n.e.c.....	3 126	20	3 126	20	0	0	0
	804 Truck drivers, heavy.....	1 525 102	97.82	1 503 156	97.88	21 946	93.75	0
	805 Truck drivers, light.....	23 973	1.54	22 510	1.47	1 463	6.25	0
	806 Driver-sales workers.....	1 251	08	1 251	08	0	0	0
	814 Motor transportation occupations, n.e.c.....	625	04	625	04	0	0	0
LABORERS, EXCEPT FARM								
740	Animal caretakers, except farm.....	52 642	100.00	35 970	100.00	16 672	100.00	0
	427 Protective service occupations, n.e.c.....	580	1.10	580	1.51	0	0	0
	479 Farm workers.....	3 877	7.36	1 740	4.84	2 137	12.82	0
	485 Supervisors, related agricultural occupations.....	855	1.62	0	0	855	12.82	0
	487 Animal caretakers, except farm.....	47 329	89.91	33 649	93.55	13 680	82.05	0
	Carpenters, helpers.....	56 266	100.00	55 016	100.00	1 250	100.00	0
750	865 Helpers, construction trades.....	17 313	30.77	16 928	30.77	385	30.77	0
	869 Construction laborers.....	38 953	38.08	38 088	69.23	865	69.23	0
751	Construction laborers, except carpenters, helpers.....	704 777	100.00	692 862	100.00	11 915	100.00	0
	558 Construction trades supervisors, n.e.c.....	7 197	1.02	7 197	1.04	0	0	0
	599 Construction trades, n.e.c.....	68 697	9.75	68 697	9.92	0	0	0
	865 Helpers, construction trades.....	104 027	14.76	104 027	15.01	0	0	0
	869 Construction laborers.....	524 201	74.38	512 286	73.94	11 915	100.00	0
752	873 Production helpers.....	654	09	654	09	0	0	0
	Fishers, hunters, and trappers.....	33 400	100.00	32 034	100.00	1 366	100.00	0
	498 Fishers.....	32 446	97.14	31 119	97.14	1 327	97.14	0
	499 Hunters and trappers.....	954	2.86	915	2.86	39	2.86	0
753	Freight and material handlers.....	638 516	100.00	591 546	100.00	46 972	100.00	0
	599 Construction trades, n.e.c.....	2 609	41	2 609	44	0	0	0
	633 Supervisors, production occupations.....	3 913	61	3 913	66	0	0	0
	719 Modeling and casting machine operators.....	652	10	652	11	0	0	0
	795 Miscellaneous hand working occupations.....	1 304	20	1 304	22	0	0	0
	799 Graders and sorters, except agricultural.....	3 359	53	1 957	33	1 402	29.9	0
	848 Host and watch operators.....	1 304	20	1 304	22	0	0	0
	853 Excavating and loading machine operators.....	1 957	31	1 957	33	0	0	0
	859 Miscellaneous material moving equipment operators.....	29 544	4.63	26 740	4.52	2 804	5.97	0
	878 Machine feeders and offbearers.....	46 485	7.28	34 567	5.84	11 918	25.37	0
	883 Freight, stock, and material handlers, n.e.c.....	529 634	82.95	500 890	84.67	28 744	61.19	0
	888 Hand packers and packagers.....	1 957	31	1 957	33	0	0	0
	889 Laborers, except construction.....	15 799	2.47	13 696	2.32	2 103	4.48	0
754 <sup>1</sup>	Garbage collectors.....	81 250	100.00	79 935	100.00	1 315	100.00	0
	Gardeners and groundskeepers, except farm.....	81 250	100.00	79 935	100.00	1 315	100.00	0
755 <sup>1</sup>	474 Horticultural specialty farmers.....	348 427	100.00	338 624	100.00	9 803	100.00	0
	485 Supervisors, related agricultural occupations.....	1 239	36	1 238	37	0	0	0
	486 Groundskeepers and gardeners, except farm.....	18 572	5.33	18 572	5.48	0	0	0
	486 Groundskeepers and gardeners, except farm.....	328 617	94.31	318 814	94.15	9 803	100.00	0
760	Longshore workers and stevedores.....	51 261	100.00	50 430	100.00	831	100.00	0
	843 Supervisors, material moving equipment operators.....	1 675	3.66	1 675	3.66	30	3.66	0
	845 Longshore equipment operators.....	3 126	6.10	3 075	6.10	51	6.10	0
	859 Miscellaneous material moving equipment operators.....	1 875	3.66	1 845	3.66	30	3.66	0
	876 Stevedores.....	44 385	86.59	43 665	86.59	720	86.59	0
	Timber cutting and logging workers.....	97 782	100.00	95 648	100.00	2 134	100.00	0
	494 Supervisors, forestry and logging workers.....	1 698	1.74	1 698	1.78	0	0	0
	496 Timber cutting and logging occupations.....	96 084	98.26	93 950	98.22	2 134	100.00	0
762	Stock handlers.....	679 335	100.00	559 473	100.00	119 862	100.00	0
	243 Supervisors and proprietors, sales occupations.....	2 441	36	1 668	30	773	65	0
	274 Sales workers, other commodities.....	3 893	57	3 893	70	0	0	0
	363 Production coordinators.....	11 557	1.70	10 010	1.79	1 547	1.29	0
	364 Traffic, shipping, and receiving clerks.....	7 112	1.16	7 112	20	0	0	0
	365 Stock and inventory clerks.....	7 516	1.11	556	10	6 960	5.81	0
	436 Food counter, fountain and related occupations.....	556	06	556	10	0	0	0
	796 Production inspectors, checkers, and examiners.....	773	11	773	11	0	0	0
	877 Stock handlers and baggers.....	553 992	81.55	484 395	86.58	69 597	58.06	0
	888 Hand packers and packagers.....	2 659	39	2 659	39	1 112	1.547	0
	889 Laborers, except construction.....	94 635	13.96	56 170	10.04	38 665	32.26	0

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see (a).]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 category	Percent of 1970 category	Percent of 1970 category
		Experienced civilian labor force	Experienced civilian labor force	Experienced civilian labor force	Percent of 1970 category	Percent of 1970 category	Percent of 1970 category
763	Transfers	8 307	8 566	11 712	100.00	100.00	100.00
	804 Truck drivers, heavy	742	713	220 254	8.33	100.00	100.00
	859 Miscellaneous material moving equipment operators	8 165	7 843	3 415	91.67	100.00	100.00
7642	Vehicle washers and equipment cleaners	139 425	124 751	216 870	91.67	100.00	100.00
	547 Supervisors, mechanics and repairers, n.e.c.	511	511	0	3.7	100.00	100.00
	633 Supervisors, production occupations	511	511	0	3.7	100.00	100.00
	700 Grinding, abrading, buffing, and polishing machine operators	511	511	0	3.7	100.00	100.00
	764 Washing, cleaning, and picking machine operators	511	511	0	3.7	100.00	100.00
	887 Vehicle washers and equipment cleaners	511	511	0	3.7	100.00	100.00
770	Warehouse laborers, n.e.c.	137 380	122 706	289 394	98.53	100.00	100.00
	889 Laborers, except construction	122 483	117 934	255 815	98.53	100.00	100.00
	Miscellaneous laborers	122 483	117 934	255 815	98.53	100.00	100.00
780	Animal caretakers, except farm	235 119	213 310	178 558	92.73	100.00	100.00
	497 Farm workers, except logging	731	731	178 558	100.00	100.00	100.00
	498 Timber logging and logging occupations	731	731	178 558	100.00	100.00	100.00
	599 Construction laborers, n.e.c.	445	445	172 268	100.00	100.00	100.00
	725 Miscellaneous metal and plastic processing machine operators	5 114	5 114	1 472	100.00	100.00	100.00
	749 Miscellaneous textile machine operators	731	731	1 472	100.00	100.00	100.00
	768 Crushing and grinding machine operators	1 176	1 176	45 837	100.00	100.00	100.00
	777 Miscellaneous machine operators, n.e.c.	4 383	4 383	45 837	100.00	100.00	100.00
	783 Welders and cutters	731	731	16 900	100.00	100.00	100.00
	786 Hand painting, coating, and decorating occupations	731	731	16 900	100.00	100.00	100.00
	855 Miscellaneous material moving equipment operators	445	445	600 596	100.00	100.00	100.00
	865 Helpers, construction trades	10 101	8 766	511 795	85.23	100.00	100.00
	869 Construction laborers	3 653	3 653	46 403	100.00	100.00	100.00
	873 Production helpers	731	731	3 412	100.00	100.00	100.00
	883 Machine tenders and operators	2 922	2 922	0	100.00	100.00	100.00
	884 Freight, stock, and material handlers, n.e.c.	1 461	1 461	0	100.00	100.00	100.00
	885 Hand packers and packagers	4 383	4 383	0	100.00	100.00	100.00
	889 Laborers, except construction	2 511	2 511	0	100.00	100.00	100.00
785	Not specified laborers	189 029	171 671	223 648	80.40	100.00	100.00
	407 Private household cleaners and servants	501 717	444 014	68 089	100.00	100.00	100.00
	453 Janitors and cleaners	6 167	6 167	0	100.00	100.00	100.00
	456 Groundkeepers and gardeners, except farm	881	881	0	100.00	100.00	100.00
	824 Helpers, mechanics and repairers	4 405	4 405	0	100.00	100.00	100.00
	824 Production helpers	1 762	1 762	0	100.00	100.00	100.00
	883 Machine tenders and operators	6 167	6 167	0	100.00	100.00	100.00
	884 Freight, stock, and material handlers, n.e.c.	22 235	16 739	0	100.00	100.00	100.00
	889 Laborers, except construction	2 678	2 678	0	100.00	100.00	100.00
	FARMERS AND FARM MANAGERS	457 424	406 132	1 075 595	91.17	100.00	100.00
8012	Farmers (owners and tenants)	1 363 383	1 284 812	0 765	99.18	100.00	100.00
	473 Farmers, except horticultural	1 352 260	1 284 812	0 765	99.18	100.00	100.00
	474 Horticulture specialty farmers	11 123	6 166	0	82	100.00	100.00
8022	Farm managers	64 830	61 769	0 681	100.00	100.00	100.00
	475 Managers, farms, except horticultural	64 830	61 769	0 681	100.00	100.00	100.00
8212	FARM LABORERS AND SUPERVISORS	36 187	33 790	18 436	100.00	100.00	100.00
	477 Supervisors, farm workers	36 187	33 790	18 436	100.00	100.00	100.00
822	Farm laborers, wage workers	877 357	749 789	894 570	85.47	100.00	100.00
	479 Farm workers	842 772	725 849	894 570	85.47	100.00	100.00
	484 Nursery workers	19 746	16 941	3 292	85.83	100.00	100.00
	488 Grinders and sorters, agricultural products	14 837	14 837	682 030	98.29	100.00	100.00
823	Farm laborers, unpaid family workers	103 484	60 893	2 633	58.88	100.00	100.00
	479 Farm workers	98 336	59 217	2 633	58.88	100.00	100.00
	484 Nursery workers	10 896	5 676	0	52.16	100.00	100.00
824	Farm service laborers, self-employed	1 496	1 496	0	100.00	100.00	100.00
	479 Supervisors, farm workers	1 496	1 496	0	100.00	100.00	100.00
	479 Supervisors, farm workers	2 997	2 997	0	100.00	100.00	100.00
	479 Supervisors, farm workers	2 997	2 997	0	100.00	100.00	100.00

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Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see (a).]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 category	Percent of 1970 category	Percent of 1970 category
		Experienced civilian labor force	Experienced civilian labor force	Experienced civilian labor force	Percent of 1970 category	Percent of 1970 category	Percent of 1970 category
	<b>SERVICE WORKERS, EXCEPT PRIVATE HOUSEHOLD</b>	231 986	213 909	289 394	100.00	100.00	100.00
901	Lodging quarters cleaners, except private household	4 001	5 866	3 415	100.00	100.00	100.00
	448 Supervisors, cleaning and building service workers	222 695	208 043	285 979	98.35	100.00	100.00
	449 Maids and housemen	5 270	5 270	216 870	45.00	100.00	100.00
902	Building interior cleaners, n.e.c.	503 303	473 969	289 394	100.00	100.00	100.00
	448 Supervisors, cleaning and building service workers	9 524	9 524	3 415	2.74	100.00	100.00
	449 Maids and housemen	278 671	264 445	285 979	98.56	100.00	100.00
903	Janitors and cleaners	215 108	185 192	255 815	86.56	100.00	100.00
	453 Janitors and cleaners	1 382 555	1 204 397	178 558	100.00	100.00	100.00
	448 Supervisors, cleaning and building service workers	2 917	2 917	178 558	100.00	100.00	100.00
	449 Maids and housemen	36 924	36 924	255 815	2.88	100.00	100.00
	453 Janitors and cleaners	1 340 533	1 168 265	178 558	97.00	100.00	100.00
	469 Personal service occupations, n.e.c.	1 472	1 472	0	100.00	100.00	100.00
	558 Construction trades supervisors, n.e.c.	708	708	0	100.00	100.00	100.00
9101	Bar tenders	215 873	170 036	45 837	100.00	100.00	100.00
	434 Bar tenders	215 873	170 036	45 837	100.00	100.00	100.00
911	Waiters, assistants	115 168	98 268	16 900	100.00	100.00	100.00
	443 Waiters and waitresses, assistants	115 168	98 268	16 900	100.00	100.00	100.00
912	Cooks, except private household	953 072	852 566	600 596	100.00	100.00	100.00
	436 Cooks, except short order	96 619	85 405	38 214	88.23	100.00	100.00
	437 Short-order cooks	735 443	667 161	511 795	91.23	100.00	100.00
	439 Kitchen workers, food preparation	115 492	112 121	46 403	7.73	100.00	100.00
	444 Miscellaneous food preparation occupations	3 412	3 412	0	100.00	100.00	100.00
913	Dishwashers	2 107	2 107	0	100.00	100.00	100.00
	444 Miscellaneous food preparation occupations	201 683	174 808	76 875	100.00	100.00	100.00
914	Food counter and fountain workers	176 098	161 401	134 523	100.00	100.00	100.00
	438 Food counter, fountain and related occupations	120 994	111 401	84 557	91.64	100.00	100.00
	443 Waiters and waitresses, assistants	35 059	30 000	34 966	85.57	100.00	100.00
	444 Miscellaneous food preparation occupations	16 044	10 399	11 967	7.81	100.00	100.00
9152	Waiters	1 204 357	1 028 762	1 075 595	100.00	100.00	100.00
	433 Supervisors, food preparation and service occupations	8 897	8 897	0 681	6.43	100.00	100.00
	435 Waiters and waitresses	1 177 611	978 865	1 075 595	83.04	100.00	100.00
	438 Food counter, fountain and related occupations	14 223	11 818	10 542	8.19	100.00	100.00
	443 Waiters and waitresses, assistants	3 626	3 012	2 341	2.34	100.00	100.00
916	Food service workers, n.e.c., except private household	374 746	300 857	283 889	100.00	100.00	100.00
	433 Supervisors, food preparation and service occupations	6 345	5 624	6 893	1.82	100.00	100.00
	439 Kitchen workers, food preparation	56 247	49 608	49 639	7.27	100.00	100.00
	443 Waiters and waitresses, assistants	307 931	254 621	225 884	81.17	100.00	100.00
	444 Miscellaneous food preparation occupations	2 224	1 827	1 673	5.51	100.00	100.00
9211	Dental assistants	99 741	100 000	97 634	100.00	100.00	100.00
	445 Dental assistants	99 741	100 000	97 634	100.00	100.00	100.00
922	Health aides, except nursing	134 287	100 000	113 945	100.00	100.00	100.00
	446 Health aides, except nursing	134 287	100 000	113 945	100.00	100.00	100.00
923	Health trainees	19 685	100 000	18 436	100.00	100.00	100.00
	095 Registered nurses	19 685	100 000	18 436	100.00	100.00	100.00
924	Lay nurses	766	100 000	618	100.00	100.00	100.00
	447 Nursing aides, orderlies, and attendants	766	100 000	618	100.00	100.00	100.00
925	Nursing aides, orderlies, and attendants	816 617	766 100	894 570	93.70	100.00	100.00
	207 Licensed practical nurses	3 292	3 292	3 292	4.00	100.00	100.00
	403 Supervisors, general office	863 325	766 100	894 570	88.74	100.00	100.00
	463 Cleaning aides, orderlies, and attendants	766 100	766 100	894 570	98.29	100.00	100.00
	467 Wellers, service aides	2 633	2 633	0	100.00	100.00	100.00
	777 Miscellaneous machine operators, n.e.c.	2 633	2 633	0	100.00	100.00	100.00
9262	Practical nurses	264 880	264 880	255 815	100.00	100.00	100.00
	Licensed practical nurses	264 880	264 880	255 815	100.00	100.00	100.00
	447 Nursing aides, orderlies, and attendants	4 582	4 582	0	100.00	100.00	100.00
931	Flight attendants	36 804	1 503	35 301	100.00	100.00	100.00
	465 Public transportation attendants	36 804	1 503	35 301	100.00	100.00	100.00

See footnotes at end of table.



Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force
		Experienced labor force	Experienced labor force	Experienced labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force
932	Attendants, recreation and amusement	82 793	62 246	20 544	100.00	100.00	100.00
	427 Protective service occupations, n.e.c.	14 306	10 723	3 573	17.28	17.38	17.38
	428 Supervisors, personal service occupations	8 406	7 513	893	10.15	12.04	4.35
	439 Attendants, amusement and recreation facilities	54 002	39 711	14 291	65.23	63.79	68.57
	464 Others	6 079	4 293	1 786	7.34	6.90	6.70
933	Attendants, personal service, n.e.c.	70 199	25 955	44 244	100.00	100.00	100.00
	449 Maids and housemen	641	0	641	0.91	0	1.45
	453 Janitors and cleaners	641	0	641	0.91	0	1.45
	463 Guides	7 629	5 064	2 565	10.87	19.51	5.80
	465 Public transportation attendants	641	0	641	0.91	0	1.45
934 <sup>1</sup>	Baggage porters and bellhops	60 646	20 891	39 755	86.39	80.49	89.86
	455 Supervisors, personal service occupations	21 377	20 822	555	100.00	100.00	100.00
	466 Baggage porters and bellhops	2 085	2 031	54	9.76	9.76	9.76
935 <sup>2</sup>	Barbers	19 292	18 791	501	90.25	90.24	90.24
	456 Supervisors, personal service occupations	183 007	174 267	8 740	100.00	100.00	100.00
	457 Barbers	2 463	2 463	0	1.35	1.41	0
	458 Hairdressers and cosmetologists	179 081	169 341	9 740	97.31	97.17	100.00
	Boarding and lodging housekeepers	2 463	2 463	0	1.35	1.41	0
940	Boarding and lodging housekeepers	8 171	2 271	5 900	100.00	100.00	100.00
941	Bookbinders	4 298	3 853	445	100.00	100.00	100.00
942	Child care workers, except private household	148 529	10 443	138 086	100.00	100.00	100.00
	468 Child care workers, except private household	519	0	519	0	0	37
	Elevator operators	148 010	99 665	48 345	99.65	99.63	99.63
943 <sup>1</sup>	Handpressers and compositors	40 181	29 000	11 181	100.00	100.00	100.00
944 <sup>2</sup>	Handpressers and compositors	525 160	50 637	474 523	100.00	100.00	100.00
	459 Personal service occupations, n.e.c.	523 888	99 76	424 122	99.76	99.73	99.73
945	Personal service apprentices	631	0	631	0	0	13
	457 Barbers	1 539	627	912	100.00	100.00	100.00
950	Housekeepers, except private household	116 350	627	912	100.00	100.00	100.00
	433 Supervisors, food preparation and service occupations	47 981	32 585	15 396	100.00	100.00	100.00
	434 Supervisors, cleaning and building service workers	4 395	17 922	550	100.00	100.00	100.00
	440 Maids and housemen	5 012	815	4 197	2.50	35.90	35.90
	456 Supervisors, personal service occupations	5 012	4 31	71	4.31	4.27	4.27
	469 Personal service occupations, n.e.c.	53 942	4 31	49 631	46.36	5.96	5.96
952	School monitors	29 331	2 889	26 442	100.00	100.00	100.00
953	Ushers, recreation and amusement	16 709	2 889	13 820	100.00	100.00	100.00
954	Welfare service aides	17 429	11 705	5 724	100.00	100.00	100.00
960	Crossing guards and bridge tenders	46 234	4 071	42 163	100.00	100.00	100.00
	425 Crossing guards	41 146	19 627	21 519	100.00	100.00	100.00
	834 Bridge, lock, and lighthouse tenders	5 088	14 539	26 607	100.00	100.00	100.00
961	Fire fighters	192 834	130 599	62 235	100.00	100.00	100.00
	406 Administrators, protective services	11 772	6 10	5 672	6.10	6.18	6.18
	413 Supervisors, firefighting and fire prevention occupations	26 346	13 66	12 680	13.66	13.62	13.62
	418 Firefighters	3 924	2 03	1 891	2.03	2.06	2.06
	417 Firefighting occupations	150 790	78 20	72 590	77.94	77.94	77.94
962	Guards	356 244	337 685	18 559	100.00	100.00	100.00
	414 Supervisors, police and detectives	649	649	0	0	0	0
	423 Sheriffs, bailiffs, and other law enforcement officers	7 793	7 793	0	2.31	2.31	2.31
	424 Correctional institution officers	50 151	18	49 963	18	19	19
	426 Guards and police, except public service	297 001	83 37	213 624	83.37	84.62	84.62
963	Marshals and constables	5 630	5 407	223	100.00	100.00	100.00
	423 Sheriffs, bailiffs, and other law enforcement officers	5 630	5 407	223	100.00	100.00	100.00

See footnotes at end of table.

Table 1. The 1970 Occupation Categories and Related Components From The 1980 Occupation Classification System—Con.

[Data are the 1970 experienced civilian labor force. Numbers and percents may not add to total because of rounding. For meaning of symbols, see text.]

1970 code	1970 Occupation categories with their 1980 component categories and codes	Total	Male	Female	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force
		Experienced labor force	Experienced labor force	Experienced labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force	Percent of 1970 civilian labor force
964	Police and detectives	410 118	395 367	14 751	100.00	100.00	100.00
	006 Administrators, protective services	14 497	14 497	0	3.53	3.67	0
	414 Supervisors, police and detectives	48 369	11 79	36 579	11.79	12.00	6.25
	418 Police and detectives, public service	344 489	333 426	11 063	84.00	84.33	75.00
	423 Sheriffs, bailiffs, and other law enforcement officers	1 844	45	1 799	0.45	0	12.50
	426 Guards and police, except public service	922	22	899	0.22	0	6.25
965	Sheriffs and bailiffs	38 135	35 782	2 353	100.00	100.00	100.00
	423 Sheriffs, bailiffs, and other law enforcement officers	38 135	35 782	2 353	100.00	100.00	100.00
	<b>PRIVATE HOUSEHOLD WORKERS</b>						
	Child care workers, private household	254 784	4 905	249 879	100.00	100.00	100.00
	406 Child care workers, private household	251 615	4 905	246 710	99.76	100.00	98.74
	407 Private household cleaners and servants	3 169	1 24	1 925	1.24	0	1.26
981 <sup>1</sup>	Cooks, private household	36 363	2 080	34 283	100.00	100.00	100.00
	404 Cooks, private household	36 363	2 080	34 283	100.00	100.00	100.00
982	Housekeepers, private household	117 239	4 304	112 935	100.00	100.00	100.00
	403 Housekeepers and butlers	48 327	2 459	45 868	42.07	57.14	41.50
	407 Private household cleaners and servants	67 912	57 93	9 979	57.93	42.86	58.50
983 <sup>1</sup>	Laundries, private household	13 727	636	13 091	100.00	100.00	100.00
	403 Laundries and ironers	13 727	636	13 091	100.00	100.00	100.00
984	Private household cleaners and servants	781 984	26 208	755 776	100.00	100.00	100.00
	407 Private household cleaners and servants	781 984	26 208	755 776	100.00	100.00	100.00

<sup>1</sup>Direct comparable.

<sup>2</sup>Estimated to be at least 95 percent comparable.

<sup>3</sup>Estimated to be between 90 and 94.5 percent comparable.