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Occupation According to the 1991 Standard Occupational Classification

1991 Census Technical Reports

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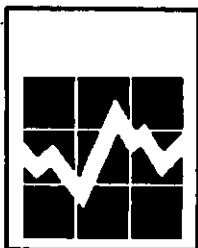
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Statistics Canada

1991 Census Technical Reports

Occupation According to the 1991 Standard Occupational Classification

Reference Products Series

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February 1995

Price: Canada: \$20.00
United States: US\$24.00
Other Countries: US\$28.00

Catalogue 92-344E

ISBN 0-660-14302-X

Ottawa

La version française de cette publication est disponible sur demande (92-344F)

Note of Appreciation

Canada owes the success of its statistical system to a long-standing cooperation involving Statistics Canada, the population of Canada, its businesses and governments. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

Canadian Cataloguing in Publication Data

Main entry under title:

Occupation According to the 1991 Standard Occupational Classification

(1991 census technical reports)

(Reference product series)

Issued also in French under title:

Profession selon la Classification type des professions de 1991

ISBN 0-660-14271-6

CS92-344E

1. Occupation -- Canada -- Statistics.

2. Canada -- Census, 1991 -- Methodology.

3. Canada -- Census, 1991 -- Evaluation.

I. Statistics Canada. II. Series.

HA741.5.1991 O22 1995 331.7'0971'021

C94-988078-7

How to Cite This Document

Statistics Canada. Occupation According to the 1991 Standard Occupational Classification.

1991 Census Technical Reports; Reference Products Series.

Ottawa: Minister of Industry, Science and Technology, 1995.

Catalogue number 92-344E.

Preface

Through time, the Census of Canada has become the primary source of information about Canadians and how they live. Decisions based on this information affect the social and economic affairs of all Canadians.

Statistics Canada, as the professional agency in charge of producing this information, has the responsibility for informing users of data quality. The agency must describe the concepts and methodology used in collecting and processing the data, as well as any other features that may affect their use or interpretation.

In order to describe the quality of the 1991 Census data, Statistics Canada has prepared the following publications: a census **Dictionary**, which provides concise and easy to understand textual and graphical information pertaining to census concepts; a **Handbook**, which provides an overview of how the census is conducted; and a series of **Technical Reports**, which present in greater detail, information on the quality of data for specific characteristics, such as occupation, as covered in this report.

Information on data quality is important for users. It allows them to assess the usefulness of census data for their purposes as well as the risks involved in basing conclusions or decisions on these data. The 1991 Census was a large and complex undertaking and, while considerable effort was taken to ensure high standards throughout all collection and processing operations, the resulting data are inevitably subject to a certain degree of error.

Information on data quality is also important to Statistics Canada. It is an integral part in the development and maintenance of pertinent and reliable statistical programs.

This publication is a major contribution to achieving these goals. It has been prepared by Sandra Swain, with the support of staff from three Divisions in Statistics Canada: Labour and Households Surveys Analysis, Census Operations and Social Survey Methods.

Finally, I would like to express my appreciation to the millions of Canadians who completed their questionnaires on June 4, 1991, as well as to those who assisted Statistics Canada in planning and conducting the census.

Ivan P. Fellegi

Chief Statistician of Canada

Table of Contents

	Page
List of Tables	iii
I. Introduction	1
II. Concepts and Definitions	2
III. Data Collection and Coverage	4
IV. Data Assimilation	7
V. Edit and Imputation	10
VI. Data Evaluation	12
A. Non-response	12
B. Review by Broad Occupational Category	14
Category A - Management Occupations	14
Category B - Business, Finance and Administrative Occupations	15
Category C - Natural and Applied Science Occupations	15
Category D - Health Occupations	16
Category E - Occupations in Social Science, Education, Government Service and Religion	16
Category F - Occupations in Art, Culture, Recreation and Sport	17
Category G - Sales and Service	18
Category H - Trades, Transport and Equipment Operators and Related Occupations	19
Category I - Occupations Unique to Primary Industry	19
Category J - Occupations Unique to Manufacturing and Processing and Utilities	20
C. Summary of Recommendations	21
VII. Historical Comparability	23
VIII. Products and Services	24
IX. Conclusion	26

**Census of Population - Reference Products
1991 Census Technical Reports**

Appendix 1	Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data	27
Appendix 2	Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data	49
Appendix 3	The 1991 Standard Occupational Classification List of Broad Occupational Categories, Major Groups, Minor Groups and Unit Groups	93
Appendix 4	The Relationship Between the 1991 Standard Occupational Classification and the National Occupational Classification	109
Bibliography		121
Regional Reference Centres		122

List of Tables

Tables	Page
1. Non-response Rates for Canada, Provinces and Territories, 1991 Census	13

I. Introduction

Every five years a census of population is carried out in Canada. The national Census of Population is a major project conducted by Statistics Canada to collect, verify and publish data. The national Census provides the most comprehensive database on the characteristics of Canadians, their families and their households. The information ranges from age and sex of individuals to their ethnic origin, education, occupation, labour force activity, industry, sources of income, their family and household characteristics. The census is an invaluable source of information that is useful to the various levels of government, to businesses, associations, educational institutions, interest groups, and to the general public. The data can be used in government planning of social and economic programs, assessment of the need for educational and health facilities, and planning by private enterprise.

Information is obtained through a series of questions established after detailed consultation and testing. It is collected by trained enumerators, checked for inconsistencies and errors and forwarded to Revenue Canada Taxation (RCT) regional centres for data entry. The final results are placed on a computer database at Statistics Canada. Data are analyzed, published and disseminated in various forms.

In a massive project such as the census, however, the results are never perfect. Although considerable effort has been made to maintain high standards of quality, errors inevitably occur at various stages of the collection and processing operations. Users must be aware of the nature and scope of any errors that the census data may contain, as well as the risks involved in basing conclusions or decisions on these data.

The **1991 Census Technical Reports** have been designed to inform data users of the potential problems or intricacies of the data. The reports inform users of the conceptual framework and definitions used in the data collection, any unusual circumstances which may influence the data, likely principal sources of error and, where possible, the size of the error.

This product is a specialized analytical tool. It complements and co-ordinates other reference products and assists the more sophisticated user to understand variable details and methodological information on coverage, sampling and weighting.

II. Concepts and Definitions

For census purposes, occupation refers to the kind of work persons were doing during the reference week, as determined by their reporting of their kind of work and description of the most important duties in their job. Data are available for persons 15 years and over, excluding institutional residents. If the person did not have a job during the week prior to enumeration, the data relate to the job of longest duration since January 1, 1990. Persons with two or more jobs were to report the information for the job at which they worked the most hours.

For the 1991 Census, occupation data were available according to three different classifications:

- **1971 Occupational Classification Manual (OCM);**
- **1980 Standard Occupational Classification (1980 SOC);**
- **1991 Standard Occupational Classification (1991 SOC).**

This report concentrates on occupation data classified according to the 1991 Standard Occupational Classification. Persons interested in occupation data classified according to the 1980 Standard Occupational Classification should refer to *Occupation According to the 1980 Standard Occupational Classification*, Catalogue No. 92-339E in the Census Technical Report Series.

The 1991 Standard Occupational Classification (formerly referred to as the 1990 National Occupational Classification) is a new classification developed by Human Resources Development (formerly Employment and Immigration Canada) and Statistics Canada. It was used for the first time in 1991.

The 1991 SOC is not a revision of the 1980 SOC or the 1971 OCM - it differs significantly in structure and content from both classifications. For information on these differences, refer to Chapter VII - Historical Comparability.

Occupations in the 1991 SOC are organized into 10 broad occupational categories. These categories are divided into 47 major groups, which are subdivided into 139 minor groups and 514 unit groups. At the unit group level, occupations are classified on the basis of kind of work performed (skill type) and by the amount of education, training or experience required to enter the occupation (skill level). A list of the broad occupational categories, major, minor and unit groups can be found in Appendix 3.

The relationship between the components of the classification structure is reflected in its numbering system. The first letter denotes the broad occupational category; the second number, the major group within that category. The third digit, then, corresponds to the minor group within the major group, and the last digit identifies the unit group. For example:

A MANAGEMENT OCCUPATIONS

A0 - SENIOR MANAGEMENT OCCUPATIONS

A01.001 - Legislators and Senior Management

A011.0011 - Legislators

A012.0012 - Senior Government Managers and Officials

A013.0013 - Senior Managers - Financial, Communications Carriers and Other Business Services

Users will note the two-part numbering system at the minor and unit groups levels. The second number following the dot allows data users access to an alternative classification structure used by Human Resources Development. For more information on this structure, refer to Appendix 4.

Occupation data are most frequently tabulated on the following subsets of the population universe:

Population who worked since January 1, 1990 - This is the largest universe for which occupation data are available.

Experienced labour force - Persons employed in the week prior to the census, as well as persons unemployed during the week preceding enumeration, who had worked since January 1, 1990.

The census asks the occupation question of persons who last worked since January 1, 1990 in order to minimize response burden. The term "experienced" is not intended to imply that persons who last worked before 1990 do not have work experience. It is used only to define the population who were required to provide census occupation data.

It should be noted that the "inexperienced labour force" refers to unemployed persons who have not worked since January 1, 1990. These persons appear in the category "occupation not applicable." Together the inexperienced and experienced labour force form the "total labour force."

III. Data Collection and Coverage

For the 1991 Census, information was collected from more than 11 million dwellings both in Canada and abroad. The data collection process consists of the drop-off and retrieval of approximately 11,500,000 questionnaires. These questionnaires are then edited to ensure they have been properly completed by all Canadians across the country. This phase employed approximately forty thousand (40,000) people in a variety of tasks from mapping to post-censal activities.

1. Data Collection Methods

Two **collection methods** were used for the 1991 Census: **self-enumeration** and **canvasser enumeration**. In self-enumeration areas, a questionnaire (Form 2A or Form 2B) was dropped off at each household before Census Day (June 4th). A member of the household was to complete the questionnaire on Census Day. Questionnaires were mailed back in pre-addressed envelopes. In 1991, less than 2% of households were enumerated by canvassers: Census Representatives completed a long form questionnaire (Form 2D) for these households by interview. This method was used to enumerate each household in remote or northern areas and on Indian reserves where irregular mail service makes mail-back impractical. Some of the remote areas were enumerated as early as March 1991.

Data were collected on *every Canadian citizen, landed immigrant and non-permanent resident alive at midnight between June 3 and June 4, 1991.*

For the very first time, the homeless people were enumerated in designated soup kitchens across Canada. Census representatives interviewed each person as they arrived at the soup kitchen and completed the shelter and soup kitchen questionnaire (Form 3B). This procedure was performed on an experimental basis.

2. Sampling

Information on occupation are collected for a sample of one in five households using the 2B questionnaire. The data are weighted to produce estimates for the whole population. In the 1991 Census, a procedure known as the "Generalized Least Squares Estimation Procedure" was used to weight the data.

3. Edit and Follow-up

Respondents were asked two questions on occupation: Question 39 - Kind of work and Question 40 - Most important duties. However, only Question 39 was identified as a mandatory question for collection. That is, if Question 39 was left blank by the respondent when it should have been answered, the Census Representative was required to "follow up" the question to obtain a response. The Census Representative first attempted to contact the respondent by telephone. If the required information could not be obtained by telephone, then a field follow-up (personal interview) was done.

4. Coverage

In order to meet the eligibility criteria, it was necessary for respondents to fall into one of the following categories:

- Canadian citizen or landed immigrant who was in Canada on Census Day;
- Canadian citizen or landed immigrant who was outside Canada on Census Day, but who had a usual place of residence in Canada (Canadian government representatives, members of the Canadian Armed Forces, and persons on merchant vessels or ocean liners, and their families);
- Canadian citizen residing abroad, attached to a diplomatic mission or in a military corps.

For the first time in 1991, the census of population also included non-permanent residents. They include:

- persons holding student authorizations;
- persons holding employment authorizations;
- persons holding Minister's permits;
- refugee claimants.

Foreign residents are not enumerated and so are excluded from the census. They include:

- representatives of governments of other countries and their families;
- members of the Armed Forces of other countries and their families;
- residents of other countries visiting Canada temporarily.

5. Questionnaire and Instructions

Occupation information was asked in Questions 39 and 40 on the 1991 Census questionnaire. Step 10 on the questionnaire instructed respondents to answer Questions 20 to 45 for each person aged 15 and over. Question 35 asked respondents when they last worked. Persons who answered "Before 1990" or "Never..." were instructed to skip the remaining labour questions (Questions 36 to 44) and go to the question on income. In addition, a note which applied to Questions 36 to 42 appeared on the questionnaire preceding Question 36. This note read as follows:

Questions 36 to 42 refer to this person's job or business last week. If this person held no job last week, answer for the job of longest duration since January 1, 1990. If this person held more than one job last week, answer for the job at which he/she worked the most hours.

The occupation questions appeared in the following format on the 1991 Census questionnaire:

39. What kind of work was this person doing?

Kind of work

For example, medical lab technician, accounting clerk, manager of civil engineering department, secondary school teacher, supervisor of data entry unit, food processing labourer, fishing guide (if in the Armed Forces, give rank only.)

40. In this work, what were this person's most important duties or activities?

Most important duties or activities

For example, analysing blood samples, verifying invoices, co-ordinating civil engineering projects, teaching mathematics, organizing work schedules and monitoring data entry systems, cleaning vegetables, guiding fishing parties.

The *1991 Census Guide* provided the following instructions:

Descriptions should be as precise as possible. Two or more words may be needed in both questions. Rather than using the terms **employee** or **worker**, use specific descriptions of the kind of work done. Be sure to indicate supervisory or management responsibilities if they apply.

For example, rather than:

- maintenance
- repair work
- office work
- clerical
- inspecting
- supervising

A more complete response would be:

- maintaining electrical equipment
- repair and maintenance of electrical motors
- typing, general office work
- typing and filing
- inspecting electronic equipment
- supervising assembly of electronic equipment

For persons who are members of a religious order engaged in teaching or nursing for example, report these activities rather than the religious activities.

IV. Data Assimilation

Data assimilation is the processing phase during which data from the Census questionnaires are edited, coded and captured. The process includes the transformation of the questionnaire responses into machine-readable form.

The four main components of data assimilation are:

- Regional Office Processing
- Direct Data Entry
- Head Office Processing
- Automated Coding

Regional Office Processing (ROP)

At this stage, ROP staff ensure that information appearing on the questionnaires is suitable for key entry into the computer. This operation employs approximately 2,000 people, and is conducted in Revenue Canada - Taxation (RCT) regional processing centres in St. John's, Jonquière, Shawinigan, Sudbury, Winnipeg and Surrey. In Ottawa it is conducted in the Statistics Canada head office. For the 1991 Census, the operation took place during the period between July and November of 1991.

Direct Data Entry (DDE)

The data entry activity was completed on behalf of Statistics Canada by Revenue Canada - Taxation (RCT). Questionnaire data was key entered at seven (7) RCT regional centres, transmitted to RCT Headquarters in Ottawa and stored on tape cartridges. This operation employed approximately 1,500 people sworn to secrecy under the Statistics Act.

Head Office Processing (HOP)

Head Office Processing is a combination of automated and manual processing designed to carry out structural edits on the census data and to process special enumeration returns. Included are returns for Canadians overseas, temporary residents and merchant and navy ships personnel. HOP also processes coverage study returns such as **Reverse Record Check (RRC)**, **Vacancy Check (VC)**, and **Overcoverage Study (OC)**. In addition, HOP is responsible for the preliminary and final population and dwelling counts and for the microfilming of census questionnaires for archival purposes. This operation employs approximately 150 people and is conducted in the Statistics Canada head office in Ottawa.

Occupation data were not subject to any structural edits at the HOP stage.

Automated Coding (AC)

The automated coding operation converted written responses to questions on mother tongue, home language, knowledge of other languages, registered Indian status, place of birth, ethnic origin, major field of study, religion and place of residence 1 year ago and 5 years ago to numeric codes.

In 1991, the written responses to the occupation questions were **not** coded automatically. All coding was done in a manual coding operation.

1991 SOC Coding Operation

Coding of occupation responses to the 1991 SOC was done as a special supplemental coding operation in the Ottawa head office. It took place after the regular economic variables of industry, occupation (coded to the 1980 SOC) and place of work had been coded and the census questionnaires data captured and returned from the RCT regional centres.

Coding Procedures

To ensure that respondents selected for coding in the regular economic coding operation were also included for 1991 SOC coding, records were preselected from the census database on the basis of the presence of an 1980 SOC code including records coded with 0000 – Occupation not stated. Records to be coded were listed on printouts by EA and questionnaire number. Coders matched questionnaires to the listings to obtain the write-in information needed for coding. The 1991 SOC code was entered on the printout. The printouts were data captured and the records merged back to the database.

To code occupation, coders were asked to determine an occupation title using the write-in information to Questions 39 and 40 – Kind of work and Most important duties – as well as the responses to Questions 36 and 37 on industry. Coders then searched for the title in the alphabetical index of the coding manual. Once a title was found, the associated four-digit occupation code had to be verified in the definition section of the manual to ensure that the description of the unit group was appropriate for the kind of work performed by the respondent. If the unit group description was appropriate, the coder accepted the code, otherwise the process was repeated until a suitable code was found. A referral system was in place to code difficult cases which could not be handled by regular coders.

During the coding and data capture of the 1991 SOC, a minor number of problems arose which would result in some records with missing data. Among these problems were:

In a small number of cases, a questionnaire could not be found for a person listed on the printout.

When records were merged back to the database, data capture errors resulted in some codes which could not be matched back to their original record.

Finally, at least one EA box could not be located during the coding operation, affecting approximately 200 questionnaires.

In all these cases, the missing code was left to be resolved by imputation.

1991 SOC Coding Manual

An interim coding manual was used to code occupation responses. This interim manual carried the same unit groups as the published 1991 SOC with some minor exceptions. A small number of unit groups were created for coding purposes only, they do not appear in the published structure. As well, the coding manual used a different numbering system from the 1991 SOC such that, the organization of the unit groups into major and minor groups differs significantly between the two structures. The purpose of the different structure was to make the manual easier for the coders to use.

The coding manual was produced in both French and English. It should be noted that the occupation titles contained in the French manual are not translations of English titles, but are those commonly used in French.

During the coding operation, two amendments were made to the coding manual. At the beginning of the coding operation, an amendment was written to separate two unit groups, Supervisors, Mail and Message Distribution Occupations and Supervisors, Recording, Distributing and Scheduling Occupations which had been mistakenly combined into one unit group. Several weeks into coding, a second amendment was written to address the recurring problem of vague responses and persons doing "odd jobs." Coders found that there was no suitable place in the manual to code these occupations. A new unit group – Occupation Not Elsewhere Classified – was added to the coding manual to handle these types of responses.

Technical Assistance Request Forms (TARFs)

Technical assistance request forms were used as a means of communication between the coding operation and the subject-matter officer responsible for the 1991 SOC. They also served to document problems with the coding manual and coding procedures. A number of TARFs concerned the coding of occupation titles which could not be found in the coding manual. These cases were referred to Standards Division for resolution.

Quality Control

To maintain data quality during coding, a 10% sample of respondents was selected for each EA and coded by a quality control clerk (QC clerk) on a separate worksheet. Once the EA was coded, the codes for the QC clerk and general coder were compared. Disagreements between codes were verified to determine which code, if either, was correct and an error was attributed to the appropriate coder. If the total number of errors for the general coder was higher than a pre-set threshold, then the EA would be returned for recoding. If the total number of errors was below the threshold, then the QC clerk corrected any errors found in the sample and sent the EA to data capture.

In planning the coding operation, consideration was given to possible biases that could be introduced if the coders tried to associate certain 1980 SOC codes, which were visible on the questionnaire, with 1991 SOC codes. Steps were taken to ensure that coders did not make this kind of systematic error. First, coders hired for the 1991 SOC coding operation did not have previous knowledge or experience coding with the 1980 SOC. Second, a program was put in place in which one percent of the quality control worksheets were selected and the coder errors data captured in order to check systematic coding errors. This check did not detect any systematic bias.

V. Edit and Imputation

In the edit and imputation phase, discrepancies, inconsistencies and missing answers are identified and corrected. The final set of usable "clean" data (free of invalid, inconsistent and missing responses) is produced, comprising a unique database which provides Canada's most detailed information about the population and its characteristics, ranging from the national to the neighbourhood level.

Errors found at this stage can be the result of respondents answering the questions incorrectly or incompletely, or they can be due to errors generated during coding activities and data capture. After errors are detected, values for missing or incomplete entries are imputed. Imputation, which is the correction of the errors, is done using either a "deterministic" or a "hot deck" method. For deterministic imputation, errors are corrected by inferring the appropriate value from answers to other questions. The "hot deck" approach selects a record that has a number of characteristics in common with the record in error, and imputes the missing information from this "donor" record.

Two automated systems are used for editing and imputing census data:

- **CANEDIT**
This system is used to correct the 100% demographic data for age, sex, relationship to Person 1 and marital status, and the labour data from the 20% sample (Form 2B).
- **SPIDER (System for Processing Instructions from Directly Entered Requirements)**
The SPIDER system was developed for the 1981 Census to handle the more complex coded variables and absolute values such as income. Most of the questions asked of 20% of the population are processed using SPIDER.

Imputation

All edit and imputation for the 1991 SOC data was done using the SPIDER automated system. An occupation response was imputed if a respondent was identified as having worked since January 1, 1990, but his/her occupation was blank, not stated (0000) or "invalid." An invalid code is one that falls outside the range of acceptable values. This kind of error can occur during the coding operation or during data capture.

The "hot deck" method of donor selection was used to obtain codes for the missing and invalid cases. A donor record was matched to the respondent on the basis of age, sex and highest level of schooling with further refinements by industry, major field of study, the presence of children (for women only), farm operator status, dwelling type and Aboriginal status. As well, possible donor records with a three-digit occupation code (see below), or with unlikely combinations of industry and occupation (defined as combinations which occurred less than five times in the population) were also excluded from the donor pool. The code assignment was made at the four-digit unit group level. The results of the imputation process are shown in Appendix 2.

During the coding operation, referral coders were allowed to assign the three-digit minor group code to a response if there was not enough information given by the respondent to code to a unit group, but the minor group could be determined. A second imputation was required where these records with three-digit codes were matched against a donor with similar age and sex characteristics and the same first three digits, to arrive at the fourth digit.

Three-digit coding was generally not used by coders. The exception was in the coding of teachers when it could not be determined whether the respondent was an elementary or secondary school teacher. Data users interested in the effects of three-digit coding for teaching occupations should refer to Category E in Chapter VI – Data Evaluation.

Deterministic Edits

At the final stage of processing, deterministic edits were done on the data to eliminate inconsistent or improbable combinations of responses between occupation, age and education, and occupation and industry. It should be noted that, because most of the census variables had been processed ahead of the 1991 SOC, their values were finalized and could not be changed if a conflict was found. Therefore, only the 1991 SOC code could be changed to resolve any conflicts.

The first set of edits changed the occupation code based on age and educational attainment. There are certain occupations for which one would expect the respondent to have a minimum level of education and/or work experience. In cases where the minimum conditions were not met, the occupation code was changed to another code within the same field but at a technical or less skilled level.

For example: respondents coded to C051.2151 - Architects were changed to C151.2251 - Architectural Technologists and Technicians if they were less than 25 years of age and had less than three years of university.

The edits based on age and education were designed to eliminate the most obvious conflicts, but not to be so restrictive as to possibly eliminate true cases.

The second set of edits changed the occupation code based on industry. Some occupations have more than one possible code - the correct code is determined by the industry in which the respondent works.

For example: a deckhand on a boat could be coded to H733.7433 - Deck Crew, Water Transport, if he/she works in the Water Transport Industry, or to I181.8441 - Fishing Vessel Deckhands, if he/she works in the Fishing Industry.

Other occupations are only found in certain industries. In these cases, the purpose of the edits was to make occupation consistent with the industry response according to the definition of the occupation unit group.

In a small number of cases, industry combined with occupation was also used to create unit groups. The groups A013.0013, A014.0014, A015.0015 and A016.0016 were originally coded to only one group - Senior Manager, Non-government. The industry variable was used to create the four unit groups for Senior Managers appearing in the 1991 SOC. Likewise, the unit groups under minor group J31.961 - Labourers in Processing, Manufacturing and Utilities and the unit group G713.6433 - Airline Sales and Service Agents were created in a similar fashion.

Finally, as part of the analysis of data quality, a sample of write-ins with their assigned code were data captured and reviewed. As a result, additional edits were created in a "fix module" to correct systematic coding errors discovered during the above review. These edits are discussed during the analysis by broad occupational category.

VI. Data Evaluation

The quality of the occupation data was evaluated at various stages throughout processing. The initial review occurred at the "load stage." This is the stage when the data are transferred from magnetic tape to the census database. It was at this stage that the first coded values were available. Some possible problem cases were identified for investigation and an assessment of non-response was carried out. The effect of edit and imputation discussed in the previous section forms an important part of the evaluation process. Once processing was completed, a detailed review of the occupation data occurred before the data were released. In this section, the highlights of the review process are presented.

A. Non-response

Table 1 presents 1991 non-response rates for males and females for Canada, provinces and territories showing unweighted and weighted data. Non-response was calculated by dividing the number of persons who should have answered the occupation questions but left them blank by the number of persons who should have given a response. Invalid responses are not considered as non-response since the invalidity could have been caused by coding or keying errors.

At the Canada level, the weighted non-response for the 1991 SOC was 5.0%. The non-response rate was slightly higher for women (5.4%) than men (4.7%). Except for the Yukon, non-response is higher for women than men in all provinces for both weighted and unweighted data. The weighted rates are consistently lower than the unweighted rates, especially in the Yukon. This is due to the fact that non-response is much higher for persons in "collectives" and in remote areas and Indian reserves where the 2D canvasser questionnaire was used. In these areas, no sampling occurs. Thus, in areas where sampling occurs, when the estimates from the 2B documents are weighted, there is an overall lowering of non-response. The only area sampled in the Yukon was Whitehorse; there the unweighted non-response rate was 3.7%. Finally, there was no sampling in the Northwest Territories.

Lack of response to the occupation questions may be attributed to several factors. For example, respondent burden applies to all questions, but may be more pronounced for occupation and industry since these questions require a write-in response, as well as appearing near the end of the questionnaire. Problems have historically been identified which indicate a lack of comprehension by respondents of the census concept of work. The self-enumeration methodology does not permit interviewer probing to elicit responses from those doing occasional work at jobs requiring a minimum of training or from those doing work for which remuneration is not received. Respondents doing such work may not recall it when the questionnaire is being completed, or may not consider it as "work" but, rather, as an everyday activity in which the census would not be interested. There is also the question of proxy responses. A parent might not consider a child's babysitting or newspaper delivering as "work." Non-response may also occur because a respondent's occupation changed frequently during the census reference period, or because it involves a large variety of seemingly unrelated tasks, for example, "odd job labourer."

Table 1. Non-response Rates for Canada, Provinces and Territories, 1991 Census

	Total	Males	Females
Canada			
Unweighted	5.8	5.6	6.0
Weighted	5.0	4.7	5.4
Newfoundland			
Unweighted	4.3	4.2	4.3
Weighted	4.1	4.0	4.2
Prince Edward Island			
Unweighted	4.8	4.4	5.3
Weighted	4.0	3.5	4.5
Nova Scotia			
Unweighted	4.1	3.9	4.4
Weighted	3.7	3.5	3.9
New Brunswick			
Unweighted	4.6	4.3	4.9
Weighted	4.2	3.9	4.4
Quebec			
Unweighted	5.8	5.5	6.1
Weighted	5.0	4.7	5.4
Ontario			
Unweighted	6.0	5.9	6.0
Weighted	5.2	5.0	5.5
Manitoba			
Unweighted	6.6	6.3	7.0
Weighted	5.1	4.7	5.6
Saskatchewan			
Unweighted	6.5	5.8	7.4
Weighted	6.0	5.1	7.0
Alberta			
Unweighted	5.5	4.9	6.0
Weighted	4.7	4.2	5.4
British Columbia			
Unweighted	5.8	5.7	5.8
Weighted	4.8	4.5	5.1
Yukon			
Unweighted	11.2	12.1	10.1
Weighted	7.4	8.0	6.8
Northwest Territories			
Unweighted	4.4	4.3	4.5
Weighted	4.4	4.3	4.5

B. Review by Broad Occupational Category

Because the 1991 SOC is a new classification, it is difficult to find comparable data sources. No other surveys use the 1991 SOC for coding, therefore no data for comparisons are available. Much of the verification of the 1991 SOC was limited to the analysis of the file of write-in responses with the assigned 1991 SOC code.

In the following review, some general comparisons will be made with the 1980 SOC because, although not directly comparable, it can confirm trends at broad levels of aggregation. It also serves to highlight the differences in content between the two classifications, particularly between groups which at first glance seem similar. For more information on the differences between the 1991 SOC and the 1980 SOC, refer to Chapter VII - Historical Comparability.

Category A - Management Occupations

Experienced labour force: 1,383,410.

Percentage of the experienced labour force: 9.7%.

The 1991 SOC reported 9.7% of the experienced labour force in management occupations. The 1980 SOC reported 12.2% in Major Group 11 - Managerial, Administrative and Related Occupations. The difference between the two classifications is due to the fact that the 1980 SOC includes some government, administrative and regulatory occupations and professional occupations in finance and human resources which are not considered management occupations by the 1991 SOC. As well, the 1991 SOC excludes farm managers from the management category, but includes commissioned officers in the Armed Forces.

By sex, the 1991 SOC reported 12.4% of the male experienced labour force in management occupations, while the 1980 SOC reported 13.9% of males in management occupations. The difference for females is more pronounced. The 1991 SOC shows only 6.4% of the female experienced labour force in management occupations compared to 10.2% for the 1980 SOC.

Like the 1980 SOC, coders have difficulty coding management occupations. For example, coders may overcode persons who are supervisors to management categories, or they may undercode persons who are managers to working level occupations. Respondents are often vague about their duties. Responses such as "manager, managing" make it difficult for coders to determine the exact level of responsibility. Another problem area is the self-employed who run their own businesses. It is difficult to know whether they should be coded as managers or as workers within their specific trade or business. Finally, occupations such as LAN manager, service manager, office manager or produce manager are often not managerial occupations and all have the potential to be miscoded. Again these problems are experienced by both the 1991 SOC and the 1980 SOC.

As mentioned during the discussion of deterministic edits, the unit groups A013.0013, A014.0014, A015.0015 and A016.0016 were originally collected in one unit group - Senior Managers, Non-government. The industry variable was used to assign these responses to the above-mentioned unit groups.

Analysis of the write-in file revealed some specific coding problems requiring fixes to be written during processing. There was no title for the occupation "warehouse supervisor" in the coding manual, therefore, coders treated this response as a warehouse manager and coded it to A141.0720 - Facility Managers. These respondents could be identified by the 1980 SOC code 9310 - Foremen/women, Material Handling and Related Occupations, n.e.c. A fix was created which moved respondents with 1991 SOC code A141.0720 and 1980 SOC code 9310 to B415.1215 - Supervisors, Recording, Distributing and Scheduling Occupations.

A similar problem was found in A381.0811 - Primary Production Managers. Here persons in "forestry management" were erroneously coded as managers. In this case, the 1980 SOC comparison code 0256 - Forester was used to identify respondents miscoded to A381.0811 and to move them to C022.2122 - Forestry Professionals.

Category B - Business, Finance and Administrative Occupations

Experienced labour force: 2,727,160.

Percentage of the experienced labour force: 19.2%.

This category is made up of professional occupations in business services as well as administrative and clerical occupations. To compare this category to the 1980 SOC, the Major Group B0 - Professional Occupations in Business and Finance must be excluded. The remaining groups in category B can then be compared to 1980 SOC Major Group 41 - Clerical and Related Occupations. The 1980 SOC reported 18.1% of the experienced labour force in clerical occupations. The comparable 1991 SOC figure is 17.7%. It is reasonable that the 1991 SOC results are lower as occupations such as, cashiers, travel and hotel clerks are treated as clerical occupations by the 1980 SOC, but as sales and service occupations by the 1991 SOC.

As in the 1980 SOC, women were found to be more concentrated in these occupations than men. The 1980 SOC reported 7.1% of the male experienced labour force and 31.6% of the female experienced labour force in clerical occupations. Comparable figures for the 1991 SOC are 7.5% and 30.3% respectively. This comparability with the 1980 SOC can be carried to the unit group level where secretaries made up 3.2% of the experienced labour force in the 1980 SOC, while in the 1991 SOC the three secretarial groups taken together make up 3.5% of the experienced labour force. By sex, 0.1% were males and 7.1% were females according to the 1980 SOC, while the 1991 SOC showed 0.1% and 7.8% respectively.

There were two specific coding problems which required special processing for this category. First, the amendment to the coding manual which tried to separate two unit groups which had mistakenly been combined, was not successfully followed. Occupations which should have been coded to B415.1215 - Supervisors, Recording, Distributing and Scheduling Occupations were instead coded to B414.1214 - Supervisors, Mail and Message Distribution Occupations. The 1980 SOC code was used to identify respondents which were miscoded. Respondents coded to B414.1214 with the following 1980 SOC codes were moved to B415.1215:

- 4150 - Supervisors: Material Recording, Scheduling and Distributing Occupations;
- 4160 - Supervisors: Library, File and Correspondence and Related Occupations;
- 9110 - Foremen/Forewomen: Air Transport Operating Occupations;
- 9170 - Foremen/women: Motor Transport Operating Occupations;
- 9190 - Foremen/women: Other Transport Equipment Operating Occupations;
- 9310 - Foremen/women: Material Handling and Related Occupations, n.e.c.

The second fix to be done for these data was to move bus dispatchers from B575.1475 - Dispatchers and Radio Operators to H022.7222 - Supervisors, Motor Transport and Other Ground Transit Operators using 1980 SOC comparison code 0223 - Bus Dispatcher.

Category C - Natural and Applied Science Occupations

Experienced labour force: 669,970.

Percentage of the experienced labour force: 4.7%.

The 1980 SOC reported 4.0% of the experienced labour force in Major Group 21 - Occupations in Natural Sciences, Engineering and Mathematics. These figures for the 1991 SOC can be expected to be higher than the 1980 SOC due to the fact that the 1991 SOC includes some professional occupations in transportation, as well as inspection and regulatory occupations in the natural science group.

By sex, 7.1% of the male experienced labour force were in natural and applied science occupations compared to only 1.8% of females. The figures for the 1980 SOC were 5.9% and 1.8%.

Coding problems encountered for this category were with the title "marine engineer." This occupation was confused with engineers who operate engine rooms on ships. This problem affected both C048.2148 - Other Professional Engineers, n.e.c. and C132.2232 - Mechanical Engineering Technologists and Technicians. A fix was created to move respondents with industry codes 454 - Water Transport Industries and 455 - Service Industries Incidental to Water Transport to C174.2274 - Engineer Officers, Water Transport.

The title "truck weighers" was not included in the 1991 SOC coding manual, although this occupation was reported frequently by respondents. The result was that the majority of these responses were miscoded to C162.2264 - Engineering Inspectors and Regulatory Officers. The miscoded respondents were identified using 1980 SOC code 4157 - Weighers and moved to H812.7452 - Material Handlers. The title "truck weighers" will be added to the coding manual for 1996.

Category D - Health Occupations

Experienced labour force: 703,930.

Percentage of the experienced labour force: 5.0%.

With the exception of one unit group and some minor differences at the "title level" between the 1991 SOC and 1980 SOC, Health Occupations is the most comparable category between the two classifications. The 1991 SOC reported 5.0% of the experienced labour force in health occupations compared with 5.1% in Major Group 31 - Occupations in Medicine and Health in the 1980 SOC. The exception between the two classifications is that the 1991 SOC classifies elemental medical and hospital assistants with Category G - Sales and Service Occupations.

By sex, both classifications reported 1.9% of the male experienced labour force in this category, while for females the percentages were 8.7% for the 1991 SOC and 9.0% for the 1980 SOC.

There were two fixes which had to be written for this category. Some "speech-language pathologists" were miscoded to D011.3111 - Specialist Physicians probably due to confusion over the word pathologist. These responses were moved to D041.3141 - Audiologist and Speech-language Pathologists using 1980 SOC code 3136 - Audio and Speech Therapists.

A second fix was written to move "licensed practical nurses" coded to D112.3152 - Registered Nurses to D233.3233 - Registered Nursing Assistants using 1980 SOC code 0121 - Licensed Practical Nurse.

Category E - Occupations in Social Science, Education, Government Service and Religion

Experienced labour force: 917,830.

Percentage of the experienced labour force: 6.5%.

Looking at the figures for males and females, 5.0% of the male experienced labour force was in this category compared to 8.3% of the female experienced labour force.

This category shares some similarities with three major groups from the 1980 SOC: Major Group 23 - Occupations in Social Sciences and Related Fields; Major Group 25 - Occupations in Religion; and Major Group 27 - Teaching and Related Occupations. The total proportion of the experienced labour force for these three major groups was 6.8%.

While the estimates of the experienced labour force for the 1991 SOC and the 1980 SOC are close, they mask some significant differences between the two classifications in the treatment of a number of occupations. First, the 1991 SOC does not include occupations in library, museum and archival sciences (1980 SOC Minor Group 235) in this category, but in Category F - Occupations in Art, Culture, Recreation and Sport. On the other hand, the 1991 SOC does include a number of government administrative occupations which are treated as management occupations by the 1980 SOC.

Second, the two classifications also have fundamental differences in their treatment of certain occupations in education. Fine arts teachers in private institutions such as, teachers of dance, acting or music, are classified with

the teaching occupations in the 1980 SOC, whereas in the 1991 SOC, they are classified in Category F with professional dancers, actors and musicians.

Finally, elementary and secondary school teachers' assistants and day care teachers and assistants are treated as teaching occupations by the 1980 SOC, but as service occupations (Category G) by the 1991 SOC.

As mentioned earlier, during the coding operation, referral coders were given the option of coding a response to a three-digit minor group code if the exact unit group within the minor group could not be determined. In the case of teaching occupations, this option was extended to general coders as too many referrals were being made when respondents reported only that they were teachers without specifying which grades they taught. The result was that over 80,000 (weighted) responses had to be imputed within Minor Group E13.414 - Secondary and Elementary School Teachers and Counsellors. The following shows how the responses were distributed among the unit groups within E13.414 for the experienced labour force. A fourth unit group, G812.6472 - Elementary and Secondary School Teacher Assistants is included because, after imputation, deterministic edits have moved respondents with age and education conflicts to G812.6472.

<u>Unit Group</u>	<u>Number (percent)</u>
E131.4141	32,072 (39.9%)
E132.4142	45,134 (56.1%)
E133.4143	2,730 (3.4%)
G812.6472	511 (0.6%)
Total	80,447 (100.0%)

It should be noted, that the problem of vague responses in teaching occupations would have affected the 1980 SOC coding as well. However, the regional offices had the benefit of provincial school listings where the name of the school could be looked up to determine whether the school was elementary or secondary. These listings were not available for head office processing. In cases where the school level still could not be determined, 1980 SOC referral coders then assigned the code for elementary or secondary teachers according to a fixed ratio.

Examination of the write-in file also noted a data quality problem with the Minor Group E03.416 - Policy and Program Officers, Researchers and Consultants. The content of this group was not well understood by coders. The most severe problems occurred in unit group E034.4160 - Health and Social Policy Researchers, Consultants and Program Officers. The following cautionary note appears with the data to alert users as to the quality of this group:

Health and Social Policy Researchers, Consultants and Program Officers (E034.4160) Data for this group should be interpreted with caution. A significant amount of error was found in the responses coded to this group as coders had difficulty in distinguishing between policy developers and policy implementers. There was also some confusion between health and social policy researchers and researchers in other policy areas within minor group E03.416 Policy and Program Officers, Researchers and Consultants.

Category F - Occupations in Art, Culture, Recreation and Sport

Experienced labour force: 337,355.

Percentage of the experienced labour force: 2.4%.

Two percent of the male experienced labour force was in this category compared to 2.8% of the female experienced labour force.

This category shares some similarity with 1980 SOC Major Group 33 - Artistic, Literary, Recreational and Related Occupations. The 1980 SOC reported 1.7% of the experienced labour force in this major group. However, as already pointed out in the discussion of Category E, a number of occupations treated as teaching or social science occupations by the 1980 SOC, have been included in this category by the 1991 SOC. In addition, a number of technical equipment operators such as broadcast equipment operators and video and camera operators are included

in this category by the 1991 SOC, while in the 1980 SOC they are found in Major Group 95 - Other Crafts and Equipment Operators.

The write-in file revealed a coding problem in unit group F141.5241 - Graphic Designers and Illustrating Artists. Layout and paste-up men in newspaper composition were miscoded here. They were moved to F123.5223 - Graphic Arts Technicians using 1980 SOC codes 9511 - Typesetting and Composing Occupations and 9515 - Photoengraving and Related Occupations.

Category G - Sales and Service

Experienced labour force: 3,476,385.

Percentage of the experienced labour force: 24.4%.

The 1980 SOC reported 9.2% of the experienced labour force in Sales Occupations and 12.8% in Service Occupations for a combined total of 22% of the experienced labour force in Sales and Service Occupations. The proportion of the male experienced labour force in Sales and Service Occupations was 19.6% for the 1991 SOC compared to 19.1% for the 1980 SOC; the proportions for females were 30.4% and 25.4% respectively. This larger difference for females may be due to the fact that certain occupations classified as clerical and teaching occupations by the 1980 SOC have been treated as sales or service occupations by the 1991 SOC. Occupations such as tellers, hotel clerks, travel clerks, elementary and secondary school teacher's assistants and daycare teachers are all female dominated occupations treated as service occupations by the 1991 SOC, but not the 1980 SOC.

Figures for the Armed Forces were compared with those of the 1980 SOC and the Department of National Defense. While the figures for commissioned officers compared well between the 1991 SOC (18,835) and 1980 SOC (18,525), those for non-commissioned officers showed a large difference. The 1991 SOC showed 64,705 non-commissioned officers compared with 54,655 in the 1980 SOC. As a whole, 1991 SOC estimates compared favorably with those of National Defense which reported 86,646 persons in the Armed Forces. The figure for the 1991 SOC is 83,540.

Users interested in the occupation G713.6433 - Airline Sales and Service Agents should note that for coding purposes, this group was combined with G714.6434 - Ticket and Cargo Agents (except airline). During processing, respondents with industry codes 451 - Air Transport Industries and 452 - Service Industries Incidental to Air Transport were assigned code G713.6433. All remaining responses were assigned to G714.6434.

As well, the occupation G111.6411 - Sales Representatives, Wholesale Trade (Non-technical) has been edited using industry to ensure consistency with the unit group definition. Because it can be difficult to determine from a write-in response whether a respondent has a specialized knowledge of a product and, therefore, rightfully belongs to the Unit Group G121.6221 - Technical Sales Specialists, Wholesale Trade as opposed to the more general sales representative found in G111.6411, it was decided during the development of the unit groups for sales occupations, that sales representatives in the following industries should not be coded to G111.6411:

- 301 - Power Boiler and Heat Exchanger Industry;
- 302 - Fabricated Structural metal Products Industries;
- 307 - Heating Equipment Industry;
- 31 - Machinery Industries;
- 321 - Aircraft and Aircraft Parts Industries;
- 326 - Railroad Rolling Stock Industry;
- 33 - Electrical and Electronic Products Industries;
- 37 - Chemical and Chemical Products Industries;
- 391 - Scientific and Professional Equipment Industries;
- 482 - Telecommunication Carriers Industries;
- 491 - Electric Power Systems Industries;
- 772 - Computer and Related Services.

A small problem was found in Unit Group G962.6642 - Kitchen and Food Service Helpers; a number of dietary aides were coded here probably as a match to the title "dietary attendant." The respondents' descriptions of their duties, however, seemed more suited to G961.6641 - Food Service Counter Attendants and Food Preparers. A fix was created to move dietary aides from G962.6642 to G961.6641 using 1980 SOC code 3152 - Dietitians and Nutritionists. The title "dietary aide" will be added to the coding manual for 1996.

Category H - Trades, Transport and Equipment Operators and Related Occupations

Experienced labour force: 2,199,375.

Percentage of the experienced labour force: 15.5%.

By sex, 26.3% of the male experienced labour force was in this category, compared to 2.2% of the female experienced labour force. There are no comparable groups from the 1980 SOC for this category as the contents of the remaining 1980 SOC major groups are spread out among Category H and Category J.

Review of the write-in data revealed a serious problem with Unit Group H521.7381 - Printing Press Operators. The 1991 SOC has two unit groups for printing occupations which are distinguished by the type of printing machine operated. Unfortunately the typical response given by persons in these occupations was "printer, printing." This response was coded equally to both groups as coders were unable to determine the kind of machine being operated. Therefore, it was recommended that H521.7381 be collapsed into the lower skilled Unit Group J181.9471 - Printing Machine Operators with the following special note:

Printing Press and Printing Machine Operators (J180.9470) is a grouping of Printing Press Operators (H521.7381) and Printing Machine Operators (J181.9471). The typical response given by respondents in printing occupations was "printer, printing" with no indication of the type of machine being operated. Consequently, this response was coded equally to both groups. Because it was not possible to determine to which group it should have been coded, the two groups were collapsed.

The write-in file also showed floral designers and flower arrangers to be miscoded to H822.7612 - Other Trades Helpers and Labourers. They were moved to F144.5244 - Artisans and Craftspersons using 1980 SOC code 3313. Appropriate titles for these occupations will be added to the coding manual for 1996.

Category I - Occupations Unique to Primary Industry

Experienced labour force: 734,515.

Percentage of the experienced labour force: 5.2%.

Males had a higher proportion of the experienced labour force in Primary Industry; 7.3% compared to 2.6% for the female experienced labour force.

Comparable figures for this category can be found in the 1980 SOC by combining the four major groups associated with primary industries: Major Group 71 - Farming Horticultural and Animal Husbandry Occupations; Major Group 73 - Fishing, Trapping and Related Occupations; Major Group 75 - Forestry and Logging Occupations; and Major Group 77 - Mining and Quarrying Including Oil and Gas Field Occupations. The 1980 SOC reported 4.8% of the experienced labour force in these occupations. By sex the figures were 6.8% for males and 2.3% for females.

Among the differences between the two classifications with respect to occupations in primary industries: the 1991 SOC includes farm managers in this category while the 1980 SOC includes them in the managerial major group. On the other hand, heavy equipment operators in mining and forestry industries are included with mining and forestry occupations in the 1980 SOC, whereas the 1991 SOC includes them with construction occupations in Category H. Likewise, a number of technical occupations in landscaping, agriculture, animal husbandry, fishing and forestry conservation are all classified in Category C in the 1991 SOC.

Category J - Occupations Unique to Manufacturing and Processing and Utilities

Experienced labour force: 1,070,300.

Percentage of the experienced labour force: 7.5%.

For males, the above percentage distribution was 9.5% and for females it was 5.1%. There are no comparable groups from the 1980 SOC for this category as the contents of the remaining 1980 SOC major groups are divided between this category and Category H.

The unit groups within Minor Group J31.961 - Labourers in Processing, Manufacturing and Utilities were created using the industry variable. Respondents were originally coded to one of three codes for elemental workers:

- Elemental Occupations in Manufacturing and Utilities Industries;
- Packagers and Other Packaging Occupations;
- Occupations Not Elsewhere Classified.

As mentioned in the section on the coding operation, the group "Occupations Not Elsewhere Classified" was added to the coding manual midway through the coding operation, to address the need for a group for marginal occupations such as, odd job labourers and for vague responses. Examination of the write-in file suggests that the first group Elemental Occupations in Manufacturing and Utilities was also used as a catch-all for similar types of responses. As well, labourers in industries other than manufacturing and some machine operator occupations were miscoded to this group. A detailed program was written to reassign responses based on industry to the appropriate elemental unit groups throughout the classification, however, it is likely that the groups in J31.961 remain overcoded.

A coding problem was found in Unit Group J184.9474 - Photographic and Film Processors. Appropriate titles for the clerical occupations microfilm clerk and document microfilmmers were not included in the coding manual, consequently coders assigned them to J184.9474. They were moved to B513.1413 - Records and File Clerks using 1980 SOC code 4141 - Office Machine Operators. These titles will be added to the coding manual for 1996.

There were several data quality problems found in this category which resulted in the recommendation for the collapsing of two unit groups and special notes for two further sets of occupations. The problems arise from the attempt in the classification to separate workers and their occupations on the basis of skill level as defined by the kind of machine they operate in their work. The problem is that respondents often do not provide enough information, if any, about the machinery they operate. Without this detail, coders can only use their best judgement in assigning a code.

The following are the special notes for the collapsed unit groups:

Printing Press and Printing Machine Operators (J180.9470) is a grouping of Printing Press Operators (H521.7381) and Printing Machine Operators (J181.9471). The typical response given by respondents in printing occupations was "printer, printing" with no indication of the type of machine being operated. Consequently, this response was coded equally to both groups. Because it was not possible to determine to which group it should have been coded, the two groups were collapsed.

Central Control, Process and Machine Operators, Mineral and Metal Processing (J120.9410) is a grouping of Central Control and Process Operators, Mineral and Metal Processing (J111.9231) and Machine Operators, Mineral and Metal Processing (J121.9411). Data quality for these two groups was affected due to ambiguity in some of the occupation titles used as examples to guide coders in the coding of these occupations. This ambiguity combined with vague responses on the part of respondents caused operators of single function machines such as "furnace operators" and "crusher operators" to be coded to J111.9231 instead of J121.9411.

Special notes were recommended for the following unit groups:

Pulping Control Operator (J113.9233) and Pulp Mill Machine Operators (J142.9432): Data for these groups should be used with caution. There is some overlap of responses coded to these two groups as respondents do not always provide enough information to allow coders to distinguish between them.

Papermaking and Coating Control Operators (J114.9234) and Papermaking and Finishing Machine Operators (J143.9433): Data users should be aware that there is some overlap of responses coded to these two groups. Not all respondents provide enough information about the machinery they operate, making it difficult for coders to determine the correct code.

C. Summary of Recommendations

As the result of the data evaluation, it was recommended that the occupation data coded to the 1991 Standard Occupational Classification be released in June 1993 subject to the following constraints:

1. The data for H521.7381 - Printing Press Operators be collapsed with J181.9471 - Printing Machine Operators to form the Group J180.9470 - Printing Press and Printing Machine Operators;
2. The data for J111.9231 - Central Control and Process Operators, Mineral and Metal Processing be collapsed with J121.9411 - Machine Operators, Mineral and Metal Processing to form the Group J120.9410 - Central Control, Process and Machine Operators, Mineral and Metal Processing.
3. That special cautionary notes be included with the release of data for:

- | | | |
|-----------|---|--|
| E034.4160 | - | Health and Social Policy Researchers, Consultants and Program Officers; |
| J113.9233 | - | Pulping Control Operator and J142.9432 - Pulp Mill Machine Operators; |
| J114.9234 | - | Papermaking and Coating Control Operators and J143.9433 - Papermaking and Finishing Machine Operators; |
| J120.9410 | - | Central Control, Process and Machine Operators, Mineral and Metal Processing; |
| J180.9470 | - | Printing Press and Printing Machine Operators. |

The content of the special notes were as follows:

Health and Social Policy Researchers, Consultants and Program Officers (E034.4160) Data for this group should be interpreted with caution. A significant amount of error was found in the responses coded to this group as coders had difficulty in distinguishing between policy developers and policy implementers. There was also some confusion between health and social policy researchers and researchers in other policy areas within minor group E03.416 Policy and Program Officers, Researchers and Consultants.

Printing Press and Printing Machine Operators (J180.9470) is a grouping of Printing Press Operators (H521.7381) and Printing Machine Operators (J181.9471). The typical response given by respondents in printing occupations was "printer, printing" with no indication of the type of machine being operated. Consequently, this response was coded equally to both groups. Because it was not possible to determine to which group it should have been coded, the two groups were collapsed.

Central Control, Process and Machine Operators, Mineral and Metal Processing (J120.9410) is a grouping of Central Control and Process Operators, Mineral and Metal Processing (J111.9231) and Machine Operators, Mineral and Metal Processing (J121.9411). Data quality for these two groups was affected due to ambiguity in some of the occupation titles used as examples to guide coders in the coding of these occupations. This ambiguity combined with vague responses on the part of respondents caused operators of single function machines such as "furnace operators" and "crusher operators" to be coded to J111.9231 instead of J121.9411.

Pulping Control Operator (J113.9233) and Pulp Mill Machine Operators (J142.9432): Data for these groups should be used with caution. There is some overlap of responses coded to these two groups as respondents do not always provide enough information to allow coders to distinguish between them.

Papermaking and Coating Control Operators (J114.9234) and Papermaking and Finishing Machine Operators (J143.9433): Data users should be aware that there is some overlap of responses coded to these two groups. Not all respondents provide enough information about the machinery they operate, making it difficult for coders to determine the correct code.

VII. Historical Comparability

The 1991 SOC was used to code census occupation data for the first time in 1991. No other census has used the 1991 SOC; therefore, 1991 occupation data coded to the 1991 SOC is not comparable with data from previous censuses.

Comparability of the 1991 SOC and the 1980 SOC

As pointed out earlier in this report, the 1991 SOC is not a revision of the 1980 SOC. The two classifications have fundamental differences beginning at the unit group level. The criteria used by the 1991 SOC to form unit groups are the kind of work performed in the occupation (skill type) and the education, training or experience required to enter the job (skill level). The 1980 SOC on the other hand, uses only the kind of work performed as the basis for forming unit groups.

Even when skill level is not a factor, the two classifications can still differ on the contents of seemingly similar occupation groups. For example, both classifications carry the unit group - Biologists and Related Scientists. However, this group is not comparable between the two classifications because the occupation biochemist appears with the Biologists in the 1980 SOC, but is coded with the Chemists in the 1991 SOC.

Only a handful of occupation unit groups have been identified as having similar content between the 1991 SOC and the 1980 SOC. However, even for these groups final estimates can be expected to differ because:

Differences in imputation strategy: the 1980 SOC is imputed to the three-digit minor group level using CANEDIT; the 1991 SOC is imputed to the four-digit unit group level using SPIDER.

Differences in coding procedures: Coders coding the 1980 SOC were first responsible for coding the respondent's industry; the 1991 SOC coders did not code industry, although the industry coding manuals were available to them as a reference. By coding industry, the 1980 SOC coders probably benefited or at least were influenced in their assignment of the occupation code.

The 1980 SOC uses the class of worker question to code the self-employed with paid help to supervisor or foremen occupations; the 1991 SOC does not make use of the class of worker information. Therefore, the 1980 SOC may have more self-employed persons coded to supervisor or management occupations than the 1991 SOC.

Errors in coding and data capture for both classifications.

Vague responses which are always difficult to code, will be interpreted differently by different coders.

For a list of the occupation groups and their content, users should refer to the *Standard Occupational Classification 1991*, Catalogue No. 12-565.

Finally, it should be noted that the skill level criteria used to form unit groups in the 1991 SOC is that which is "usually necessary" to perform the occupations within a particular unit group. It is possible that some respondents will be assigned an appropriate occupation code and yet will not meet the skill level criteria for that occupation. Furthermore, coding of occupation responses is done on the basis of occupation title only; education of the respondent is not considered except in ambiguous situations. Therefore, if respondents under or over-report their occupations, the homogeneity of the data with respect to skill level will be affected.

VIII. Products and Services

The 1991 Products and Services line is divided into five categories - data products, analytical products, reference products, tabulation services and workshops and seminars. This section describes the various products and services which provide data or information on occupation classified to the 1991 SOC.

Data Products

Occupation (According to the 1991 Standard Occupational Classification) - Uncatalogued Release.

Occupation (According to the National Occupational Classification) - Uncatalogued Release.

The first publication presents detailed occupation data according to the 1991 Standard Occupational Classification for the 1991 Census.

The second publication also presents detailed occupation data for the 1991 Census. The classification structure is the National Occupational Classification used by Human Resources Development. The unit groups, minor groups and broad occupational categories in the NOC are the same as in the 1991 SOC, however, the two classifications differ at the major group level.

Data for both publications were collected from a 20% sample of all households and are cross-classified by sex for Canada, provinces and territories and CMAs.

Basic Summary Tabulations - 20% Sample

The 1991 Basic Summary Tabulations (BSTs) are a series of tabulations available on magnetic tape for each of the following standard geographic areas:

- Canada, provinces and territories;
- census divisions and census subdivisions;
- census metropolitan areas and tracted census agglomerations;
- census tracts;
- enumeration areas.

Area Profile series

This series gives a statistical overview, or profile of geographic areas. A wide range of census variables are covered in limited detail. The geographic areas include:

- census divisions and census subdivisions;
- census metropolitan areas and census agglomerations;
- census tracts for CMAs and selected census-tract CAs;
- federal electoral districts;
- urban and rural areas;
- enumeration areas;
- urban forward sortation areas.

For each of these geographic areas, there are two parts:

- Part A (showing variables obtained on a 100% basis);
- Part B (showing variables obtained on a 20% sample basis).

Occupation (Based on the 1991 Standard Occupational Classification) is not included in the profile series.

Reference Products

1991 Census Dictionary (Cat. No. 92-301E)

The 1991 Census Dictionary provides detailed information on all of the concepts, variables and geographic elements of the 1991 Census. The information provided for each variable includes a definition, a historical summary, the related population, the associated census question number(s), applicable response categories or classifications, and special remarks. There is also an electronic version of the census dictionary.

Users referring to the 1991 Census Dictionary for information on the 1991 SOC will find information under the heading Labour: Occupation (Based on the 1990 National Occupational Classification).

1991 Census Catalogue (Cat. No. 92-302E)

The 1991 Census Catalogue gives a full description of products and services available, including information on release dates, prices, media, table titles and catalogue numbers.

1991 Census Handbook (Cat. No. 92-305E)

The 1991 Census Handbook provides a non-technical overview of the census. It introduces data users to the census variables and geography, and provides an overview of products and services.

Tabulation Services

Electronic Shelf

All data released in published formats are available on a table by table basis in electronic or print format. In addition, some supplementary tables are also available.

Workshops and Seminars

Workshops and seminars are offered to provide new and current census data users with relevant information and to assist them in maximizing the value to census data to meet their needs.

IX. Conclusion

On June 30, 1993 occupation data based on the 1991 Standard Occupational Classification were released. At that time, an uncatalogued publication **"Occupation According to the 1991 Standard Occupational Classification"** was available to the public.

This report has provided users with information on the steps that took place prior to that release date. It includes a review of the entire project covering such topics as the occupation questions asked, the collection phase, the coding activities, a description of the edit and imputation process and an evaluation of the occupation data. Other products which may be of interest to users of occupation data are listed in the products and services section.

Throughout the process, great care was taken to reflect as accurately as possible the wide ranging "kinds of work" performed by the Canadian population. In order to meet this objective, the role played by the respondent is of prime importance. It is essential that the questions asked elicit detailed codable responses. After each census the entire process is reviewed from the design of the questionnaire to the final approval of the data in an effort to improve the quality of the results.

As part of the preparation for 1996, a National Census Test was held on November 8, 1993. The two occupation questions on "kind of work" and "most important duties" were asked. The written responses to these questions will be captured and analyzed. The results of this test will be taken into consideration in planning the various stages of processing for 1996.

Appendix 1

**Labour Force 15 Years and Over by Detailed Occupation
(Based on the 1991 Standard Occupational Classification)
and Sex, Showing Counts and 1991 Percentage Distribution,
for Canada, 1991 Census - 20% Sample Data**

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
Total labour force	14,474,940		7,957,835		6,517,110	
Not applicable	254,710		118,590		136,120	
All occupations	14,220,230	100.0	7,839,245	100.0	6,380,990	100.0
A Management occupations	1,383,410	9.7	974,710	12.4	408,700	6.4
Major group A0	139,265	1.0	115,455	1.5	23,810	0.4
Minor group A01.001	139,265	1.0	115,455	1.5	23,815	0.4
A011.0011	4,875	0.0	3,300	0.0	1,575	0.0
A012.0012	20,075	0.1	14,335	0.2	5,740	0.1
A013.0013	24,740	0.2	20,710	0.3	4,025	0.1
A014.0014	9,150	0.1	5,530	0.1	3,620	0.1
A015.0015	34,935	0.2	29,745	0.4	5,190	0.1
A016.0016	45,485	0.3	41,830	0.5	3,655	0.1
Major group A1	308,390	2.2	226,845	2.9	81,545	1.3
Minor group A11.011	126,715	0.9	80,390	1.0	46,330	0.7
A111.0111	62,935	0.4	41,120	0.5	21,815	0.3
A112.0112	28,720	0.2	16,345	0.2	12,370	0.2
A113.0113	9,945	0.1	7,795	0.1	2,150	0.0
A114.0114	25,120	0.2	15,125	0.2	9,995	0.2
Minor group A12.021	50,735	0.4	43,065	0.5	7,670	0.1
A121.0210	24,220	0.2	22,475	0.3	1,745	0.0
A122.0213	26,515	0.2	20,585	0.3	5,925	0.1
Minor group A13.061	95,010	0.7	74,205	0.9	20,805	0.3
A131.0611	95,010	0.7	74,210	0.9	20,800	0.3
Minor group A14.072	35,930	0.3	29,185	0.4	6,740	0.1
A141.0720	35,925	0.3	29,190	0.4	6,745	0.1
Major group A2	474,385	3.3	292,965	3.7	181,415	2.8
Minor group A21.062	345,825	2.4	220,740	2.8	125,080	2.0
A211.0621	345,820	2.4	220,745	2.8	125,080	2.0
Minor group A22.063	128,565	0.9	72,225	0.9	56,340	0.9
A221.0631	103,080	0.7	58,330	0.7	44,750	0.7
A222.0632	25,480	0.2	13,895	0.2	11,590	0.2
Major group A3	461,375	3.2	339,445	4.3	121,925	1.9
Minor group A30.012	93,150	0.7	57,545	0.7	35,605	0.6
A301.0121	28,700	0.2	20,960	0.3	7,740	0.1
A302.0122	52,925	0.4	29,015	0.4	23,910	0.4
A303.0123	11,525	0.1	7,575	0.1	3,950	0.1
Minor group A31.013	16,900	0.1	12,195	0.2	4,705	0.1
A311.0131	12,500	0.1	9,215	0.1	3,285	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
A312.0132	4,400	0.0	2,980	0.0	1,420	0.0
Minor group A32.031	71,200	0.5	35,840	0.5	35,360	0.6
A321.0311	18,725	0.1	5,575	0.1	13,145	0.2
A322.0312	7,380	0.1	4,080	0.1	3,300	0.1
A323.0313	29,130	0.2	20,470	0.3	8,655	0.1
A324.0314	15,970	0.1	5,710	0.1	10,255	0.2
Minor group A33.041	15,610	0.1	10,540	0.1	5,070	0.1
A331.0411	5,215	0.0	3,060	0.0	2,155	0.0
A332.0412	4,120	0.0	3,205	0.0	910	0.0
A333.0413	1,690	0.0	1,050	0.0	640	0.0
A334.0414	4,585	0.0	3,220	0.0	1,360	0.0
Minor group A34.051	24,400	0.2	13,845	0.2	10,560	0.2
A341.0511	3,775	0.0	1,360	0.0	2,420	0.0
A342.0512	12,195	0.1	7,745	0.1	4,455	0.1
A343.0513	8,425	0.1	4,740	0.1	3,685	0.1
Minor group A35.064	23,110	0.2	21,230	0.3	1,885	0.0
A351.0641	2,865	0.0	2,815	0.0	55	0.0
A352.0642	1,410	0.0	1,395	0.0	15	0.0
A353.0643	18,835	0.1	17,020	0.2	1,815	0.0
Minor group A36.065	36,440	0.3	22,235	0.3	14,205	0.2
A361.0651	36,440	0.3	22,235	0.3	14,205	0.2
Minor group A37.071	93,745	0.7	88,055	1.1	5,690	0.1
A371.0711	46,510	0.3	44,255	0.6	2,255	0.0
A372.0712	27,445	0.2	26,605	0.3	845	0.0
A373.0713	19,790	0.1	17,195	0.2	2,595	0.0
Minor group A38.081	10,185	0.1	9,555	0.1	630	0.0
A381.0811	10,190	0.1	9,560	0.1	630	0.0
Minor group A39.091	76,625	0.5	68,410	0.9	8,215	0.1
A391.0911	66,935	0.5	59,515	0.8	7,415	0.1
A392.0912	9,690	0.1	8,900	0.1	800	0.0
B Business, finance and administrative occupations	2,727,160	19.2	709,580	9.1	2,017,580	31.6
Major group B0	207,455	1.5	123,965	1.6	83,490	1.3
Minor group B01.111	160,780	1.1	97,170	1.2	63,610	1.0
B011.1111	109,630	0.8	63,280	0.8	46,350	0.7
B012.1112	14,130	0.1	8,670	0.1	5,465	0.1
B013.1113	14,860	0.1	10,700	0.1	4,155	0.1
B014.1114	22,155	0.2	14,520	0.2	7,635	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
Minor group B02.112	46,680	0.3	26,800	0.3	19,885	0.3
B021.1121	23,485	0.2	12,390	0.2	11,100	0.2
B022.1122	23,190	0.2	14,410	0.2	8,785	0.1
Major group B1	173,475	1.2	40,275	0.5	133,205	2.1
Minor group B11.123	173,475	1.2	40,270	0.5	133,200	2.1
B111.1231	100,810	0.7	8,285	0.1	92,520	1.4
B112.1232	29,340	0.2	8,305	0.1	21,030	0.3
B113.1233	18,925	0.1	10,065	0.1	8,865	0.1
B114.1234	11,250	0.1	3,940	0.1	7,305	0.1
B115.1235	9,900	0.1	8,070	0.1	1,835	0.0
B116.1236	3,255	0.0	1,605	0.0	1,650	0.0
Major group B2	512,230	3.6	7,365	0.1	504,865	7.9
Minor group B21.124	512,230	3.6	7,360	0.1	504,865	7.9
B211.1241	418,400	2.9	5,950	0.1	412,455	6.5
B212.1242	44,065	0.3	500	0.0	43,560	0.7
B213.1243	44,330	0.3	510	0.0	43,810	0.7
B214.1244	5,440	0.0	400	0.0	5,035	0.1
Major group B3	188,070	1.3	62,710	0.8	125,360	2.0
Minor group B31.122	188,065	1.3	62,705	0.8	125,360	2.0
B311.1221	103,935	0.7	25,640	0.3	78,295	1.2
B312.1222	11,565	0.1	2,015	0.0	9,545	0.1
B313.1223	7,695	0.1	2,435	0.0	5,260	0.1
B314.1224	18,000	0.1	8,375	0.1	9,625	0.2
B315.1225	19,325	0.1	11,860	0.2	7,465	0.1
B316.1226	5,450	0.0	1,690	0.0	3,765	0.1
B317.1227	3,255	0.0	1,455	0.0	1,800	0.0
B318.1228	18,855	0.1	9,245	0.1	9,610	0.2
Major group B4	108,450	0.8	44,320	0.6	64,130	1.0
Minor group B41.121	108,450	0.8	44,320	0.6	64,130	1.0
B411.1211	30,725	0.2	9,725	0.1	21,000	0.3
B412.1212	40,745	0.3	9,570	0.1	31,170	0.5
B413.1213	5,715	0.0	1,960	0.0	3,750	0.1
B414.1214	15,035	0.1	9,225	0.1	5,815	0.1
B415.1215	16,230	0.1	13,845	0.2	2,385	0.0
Major group B5	1,537,480	10.8	430,940	5.5	1,106,535	17.3
Minor group B51.141	412,290	2.9	51,730	0.7	360,560	5.7
B511.1411	213,535	1.5	39,630	0.5	173,905	2.7
B512.1412	36,525	0.3	1,615	0.0	34,905	0.5

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
B513.1413	31,220	0.2	5,340	0.1	25,880	0.4
B514.1414	131,020	0.9	5,140	0.1	125,875	2.0
Minor group B52.142	148,600	1.0	33,615	0.4	114,980	1.8
B521.1421	37,535	0.3	16,115	0.2	21,425	0.3
B522.1422	85,945	0.6	12,820	0.2	73,130	1.1
B523.1423	8,635	0.1	2,915	0.0	5,720	0.1
B524.1424	16,475	0.1	1,760	0.0	14,710	0.2
Minor group B53.143	467,950	3.3	72,655	0.9	395,295	6.2
B531.1431	257,610	1.8	45,725	0.6	211,880	3.3
B532.1432	31,725	0.2	3,755	0.0	27,970	0.4
B533.1433	101,910	0.7	9,055	0.1	92,855	1.5
B534.1434	60,715	0.4	9,165	0.1	51,545	0.8
B535.1435	15,990	0.1	4,950	0.1	11,040	0.2
Minor group B54.144	67,335	0.5	13,300	0.2	54,035	0.8
B541.1441	52,555	0.4	10,250	0.1	42,305	0.7
B542.1442	11,600	0.1	2,315	0.0	9,280	0.1
B543.1443	3,185	0.0	730	0.0	2,450	0.0
Minor group B55.145	107,820	0.8	29,650	0.4	78,170	1.2
B551.1451	13,860	0.1	2,425	0.0	11,435	0.2
B552.1452	7,680	0.1	1,985	0.0	5,690	0.1
B553.1453	63,300	0.4	18,345	0.2	44,960	0.7
B554.1454	22,980	0.2	6,895	0.1	16,085	0.3
Minor group B56.146	108,280	0.8	68,730	0.9	39,550	0.6
B561.1461	45,395	0.3	19,725	0.3	25,670	0.4
B562.1462	23,680	0.2	17,665	0.2	6,020	0.1
B563.1463	39,205	0.3	31,340	0.4	7,860	0.1
Minor group B57.147	225,205	1.6	161,265	2.1	63,940	1.0
B571.1471	98,950	0.7	81,535	1.0	17,420	0.3
B572.1472	44,065	0.3	35,225	0.4	8,840	0.1
B573.1473	16,925	0.1	9,505	0.1	7,420	0.1
B574.1474	44,000	0.3	23,325	0.3	20,670	0.3
B575.1475	19,935	0.1	10,765	0.1	9,170	0.1
B576.1476	1,330	0.0	905	0.0	425	0.0
C Natural and applied sciences and related occupations	669,970	4.7	555,930	7.1	114,040	1.8
Major group C0	347,680	2.4	283,420	3.6	64,265	1.0
Minor group C01.211	22,865	0.2	18,460	0.2	4,405	0.1
C011.2111	1,965	0.0	1,710	0.0	245	0.0
C012.2112	9,995	0.1	7,145	0.1	2,850	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
C013.2113	8,590	0.1	7,515	0.1	1,075	0.0
C014.2114	905	0.0	800	0.0	105	0.0
C015.2115	1,410	0.0	1,285	0.0	130	0.0
Minor group C02.212	17,285	0.1	12,870	0.2	4,415	0.1
C021.2121	8,610	0.1	5,465	0.1	3,145	0.0
C022.2122	4,005	0.0	3,665	0.0	340	0.0
C023.2123	4,670	0.0	3,740	0.0	930	0.0
Minor group C03.213	100,900	0.7	94,770	1.2	6,125	0.1
C031.2131	35,220	0.2	33,150	0.4	2,070	0.0
C032.2132	24,855	0.2	23,955	0.3	900	0.0
C033.2133	32,875	0.2	30,675	0.4	2,200	0.0
C034.2134	7,945	0.1	6,985	0.1	955	0.0
Minor group C04.214	39,715	0.3	36,380	0.5	3,340	0.1
C041.2141	11,075	0.1	10,070	0.1	1,010	0.0
C042.2142	2,020	0.0	1,885	0.0	135	0.0
C043.2143	2,670	0.0	2,570	0.0	100	0.0
C044.2144	1,440	0.0	1,300	0.0	135	0.0
C045.2145	4,940	0.0	4,535	0.1	400	0.0
C046.2146	3,605	0.0	3,420	0.0	190	0.0
C047.2147	9,280	0.1	8,210	0.1	1,070	0.0
C048.2148	4,685	0.0	4,390	0.1	295	0.0
Minor group C05.215	27,895	0.2	22,960	0.3	4,935	0.1
C051.2151	9,165	0.1	7,460	0.1	1,705	0.0
C052.2152	2,125	0.0	1,670	0.0	455	0.0
C053.2153	8,470	0.1	6,065	0.1	2,405	0.0
C054.2154	8,140	0.1	7,770	0.1	365	0.0
Minor group C06.216	139,020	1.0	97,980	1.2	41,040	0.6
C061.2161	6,425	0.0	3,890	0.0	2,535	0.0
C062.2162	76,710	0.5	53,845	0.7	22,870	0.4
C063.2163	55,885	0.4	40,250	0.5	15,635	0.2
Major group C1	322,290	2.3	272,510	3.5	49,780	0.8
Minor group C11.221	39,670	0.3	27,050	0.3	12,615	0.2
C111.2211	27,720	0.2	17,030	0.2	10,695	0.2
C112.2212	10,700	0.1	8,990	0.1	1,710	0.0
C113.2213	1,240	0.0	1,030	0.0	215	0.0
Minor group C12.222	36,695	0.3	27,845	0.4	8,850	0.1
C121.2221	8,565	0.1	4,965	0.1	3,600	0.1
C122.2222	5,165	0.0	3,785	0.0	1,380	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
C123.2223	9,575	0.1	8,165	0.1	1,410	0.0
C124.2224	6,700	0.0	5,975	0.1	725	0.0
C125.2225	6,695	0.0	4,955	0.1	1,740	0.0
Minor group C13.223	39,560	0.3	35,670	0.5	3,895	0.1
C131.2230	20,475	0.1	18,890	0.2	1,585	0.0
C132.2232	9,260	0.1	8,890	0.1	365	0.0
C133.2233	9,825	0.1	7,885	0.1	1,945	0.0
Minor group C14.224	96,840	0.7	89,215	1.1	7,625	0.1
C141.2241	27,305	0.2	24,235	0.3	3,070	0.0
C142.2242	57,470	0.4	53,370	0.7	4,105	0.1
C143.2243	6,700	0.0	6,535	0.1	170	0.0
C144.2244	5,365	0.0	5,085	0.1	280	0.0
Minor group C15.225	56,225	0.4	44,525	0.6	11,700	0.2
C151.2251	4,685	0.0	3,690	0.0	990	0.0
C152.2252	3,455	0.0	2,880	0.0	580	0.0
C153.2253	38,170	0.3	29,890	0.4	8,285	0.1
C154.2254	5,645	0.0	5,085	0.1	560	0.0
C155.2255	4,265	0.0	2,985	0.0	1,285	0.0
Minor group C16.226	27,980	0.2	24,420	0.3	3,560	0.1
C161.2261	3,105	0.0	2,865	0.0	235	0.0
C162.2262	4,075	0.0	3,640	0.0	430	0.0
C163.2263	11,645	0.1	9,375	0.1	2,270	0.0
C164.2264	9,160	0.1	8,540	0.1	620	0.0
Minor group C17.227	25,325	0.2	23,785	0.3	1,540	0.0
C171.2271	10,830	0.1	10,460	0.1	375	0.0
C172.2272	4,260	0.0	3,630	0.0	630	0.0
C173.2273	4,560	0.0	4,430	0.1	130	0.0
C174.2274	2,855	0.0	2,815	0.0	40	0.0
C175.2275	2,820	0.0	2,455	0.0	370	0.0
D Health occupations	703,930	5.0	148,585	1.9	555,345	8.7
Major group D0	124,965	0.9	72,195	0.9	52,770	0.8
Minor group D01.311	73,295	0.5	55,470	0.7	17,825	0.3
D011.3111	18,315	0.1	14,020	0.2	4,295	0.1
D012.3112	37,280	0.3	27,225	0.3	10,055	0.2
D013.3113	13,245	0.1	11,170	0.1	2,075	0.0
D014.3114	4,465	0.0	3,055	0.0	1,410	0.0
Minor group D02.312	7,295	0.1	5,085	0.1	2,210	0.0
D021.3121	3,075	0.0	1,890	0.0	1,185	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
D022.3122	3,440	0.0	2,890	0.0	550	0.0
D023.3123	785	0.0	310	0.0	470	0.0
Minor group D03.313	22,330	0.2	8,660	0.1	13,670	0.2
D031.3131	17,625	0.1	8,435	0.1	9,195	0.1
D032.3132	4,705	0.0	225	0.0	4,475	0.1
Minor group D04.314	22,045	0.2	2,975	0.0	19,070	0.3
D041.3141	3,830	0.0	295	0.0	3,530	0.1
D042.3142	11,025	0.1	1,700	0.0	9,330	0.1
D043.3143	5,825	0.0	615	0.0	5,210	0.1
D044.3144	1,365	0.0	370	0.0	995	0.0
Major group D1	249,365	1.8	12,495	0.2	236,870	3.7
Minor group D11.315	249,365	1.8	12,495	0.2	236,870	3.7
D111.3151	19,155	0.1	1,310	0.0	17,845	0.3
D112.3152	230,210	1.6	11,190	0.1	219,025	3.4
Major group D2	171,875	1.2	39,475	0.5	132,395	2.1
Minor group D21.321	75,835	0.5	15,550	0.2	60,290	0.9
D211.3211	19,925	0.1	3,955	0.1	15,970	0.3
D212.3212	23,855	0.2	4,325	0.1	19,525	0.3
D213.3213	3,225	0.0	820	0.0	2,405	0.0
D214.3214	4,530	0.0	1,575	0.0	2,950	0.0
D215.3215	14,555	0.1	2,965	0.0	11,585	0.2
D216.3216	1,450	0.0	220	0.0	1,235	0.0
D217.3217	1,645	0.0	160	0.0	1,495	0.0
D218.3218	825	0.0	285	0.0	540	0.0
D219.3219	5,820	0.0	1,245	0.0	4,575	0.1
Minor group D22.322	17,290	0.1	5,490	0.1	11,805	0.2
D221.3221	1,840	0.0	1,485	0.0	355	0.0
D222.3222	9,560	0.1	405	0.0	9,150	0.1
D223.3220	5,895	0.0	3,605	0.0	2,295	0.0
Minor group D23.323	78,740	0.6	18,440	0.2	60,305	0.9
D231.3231	3,885	0.0	1,730	0.0	2,165	0.0
D232.3232	3,450	0.0	1,365	0.0	2,085	0.0
D233.3233	53,380	0.4	4,220	0.1	49,165	0.8
D234.3234	12,060	0.1	9,615	0.1	2,440	0.0
D235.3235	5,970	0.0	1,515	0.0	4,450	0.1
Major group D3	157,725	1.1	24,420	0.3	133,305	2.1
Minor group D31.341	157,725	1.1	24,425	0.3	133,305	2.1
D311.3411	21,825	0.2	425	0.0	21,395	0.3

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
D312.3413	117,900	0.8	20,435	0.3	97,465	1.5
D313.3414	18,000	0.1	3,555	0.0	14,440	0.2
E Occupations in social science, education government service and religion	917,830	6.5	388,250	5.0	529,580	8.3
Major group E0	244,135	1.7	132,325	1.7	111,810	1.8
Minor group E01.411	55,330	0.4	40,665	0.5	14,665	0.2
E011.4111	2,260	0.0	1,930	0.0	330	0.0
E012.4112	53,075	0.4	38,740	0.5	14,330	0.2
Minor group E02.415	88,550	0.6	41,160	0.5	47,390	0.7
E021.4151	10,155	0.1	4,115	0.1	6,035	0.1
E022.4152	32,045	0.2	8,305	0.1	23,740	0.4
E023.4153	18,530	0.1	5,545	0.1	12,985	0.2
E024.4154	24,160	0.2	21,345	0.3	2,810	0.0
E025.4155	3,665	0.0	1,840	0.0	1,825	0.0
Minor group E03.416	100,250	0.7	50,495	0.6	49,755	0.8
E031.4161	9,045	0.1	6,455	0.1	2,585	0.0
E032.4162	5,375	0.0	3,955	0.1	1,415	0.0
E033.4163	26,500	0.2	14,800	0.2	11,695	0.2
E034.4160	29,485	0.2	12,860	0.2	16,620	0.3
E035.4166	13,040	0.1	5,305	0.1	7,735	0.1
E036.4167	11,115	0.1	4,240	0.1	6,875	0.1
E037.4168	2,045	0.0	1,250	0.0	795	0.0
E038.4169	3,660	0.0	1,635	0.0	2,025	0.0
Major group E1	549,340	3.9	218,145	2.8	331,195	5.2
Minor group E11.412	76,355	0.5	48,960	0.6	27,395	0.4
E111.4121	42,560	0.3	30,430	0.4	12,130	0.2
E112.4122	33,800	0.2	18,530	0.2	15,265	0.2
Minor group E12.413	83,085	0.6	41,840	0.5	41,240	0.6
E121.4131	83,080	0.6	41,840	0.5	41,240	0.6
Minor group E13.414	389,900	2.7	127,340	1.6	262,560	4.1
E131.4141	158,395	1.1	82,320	1.1	76,075	1.2
E132.4142	218,985	1.5	39,945	0.5	179,035	2.8
E133.4143	12,525	0.1	5,075	0.1	7,450	0.1
Major group E2	124,355	0.9	37,780	0.5	86,580	1.4
Minor group E21.421	124,360	0.9	37,780	0.5	86,575	1.4
E211.4211	15,970	0.1	3,795	0.0	12,180	0.2
E212.4212	61,845	0.4	17,255	0.2	44,595	0.7
E213.4213	11,225	0.1	3,895	0.0	7,330	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
E214.4215	17,770	0.1	4,090	0.1	13,680	0.2
E215.4216	6,120	0.0	3,965	0.1	2,150	0.0
E216.4217	11,430	0.1	4,785	0.1	6,645	0.1
F Occupations in art, culture, recreation and sport	337,355	2.4	156,780	2.0	180,575	2.8
Major group F0	143,965	1.0	64,690	0.8	79,275	1.2
Minor group F01.511	15,745	0.1	3,485	0.0	12,260	0.2
F011.5111	12,830	0.1	2,305	0.0	10,525	0.2
F012.5112	1,395	0.0	600	0.0	795	0.0
F013.5113	1,515	0.0	580	0.0	935	0.0
Minor group F02.512	68,665	0.5	30,905	0.4	37,760	0.6
F021.5121	15,285	0.1	7,995	0.1	7,290	0.1
F022.5122	6,680	0.0	3,265	0.0	3,415	0.1
F023.5123	13,465	0.1	7,320	0.1	6,145	0.1
F024.5124	23,780	0.2	8,965	0.1	14,810	0.2
F025.5125	9,450	0.1	3,355	0.0	6,095	0.1
Minor group F03.513	59,555	0.4	30,300	0.4	29,255	0.5
F031.5131	12,820	0.1	8,230	0.1	4,590	0.1
F032.5132	1,915	0.0	1,370	0.0	545	0.0
F033.5133	25,110	0.2	11,675	0.1	13,435	0.2
F034.5134	3,835	0.0	600	0.0	3,240	0.1
F035.5135	4,555	0.0	2,605	0.0	1,950	0.0
F036.5136	11,320	0.1	5,825	0.1	5,495	0.1
Major group F1	193,390	1.4	92,090	1.2	101,305	1.6
Minor group F11.521	20,620	0.1	3,900	0.0	16,720	0.3
F111.5211	16,740	0.1	2,195	0.0	14,550	0.2
F112.5212	3,880	0.0	1,710	0.0	2,170	0.0
Minor group F12.522	38,030	0.3	27,965	0.4	10,065	0.2
F121.5221	10,285	0.1	7,455	0.1	2,830	0.0
F122.5222	2,945	0.0	2,605	0.0	345	0.0
F123.5223	6,930	0.0	4,485	0.1	2,450	0.0
F124.5224	3,225	0.0	2,640	0.0	580	0.0
F125.5225	5,680	0.0	4,865	0.1	820	0.0
F126.5226	5,730	0.0	3,570	0.0	2,165	0.0
F127.5227	3,225	0.0	2,345	0.0	885	0.0
Minor group F13.523	11,890	0.1	8,160	0.1	3,730	0.1
F131.5231	9,165	0.1	7,210	0.1	1,955	0.0
F132.5232	2,725	0.0	950	0.0	1,775	0.0
Minor group F14.524	67,430	0.5	29,045	0.4	38,380	0.6

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
F141.5241	28,410	0.2	16,405	0.2	12,005	0.2
F142.5242	7,495	0.1	2,380	0.0	5,115	0.1
F143.5243	9,090	0.1	3,410	0.0	5,685	0.1
F144.5244	20,790	0.1	6,370	0.1	14,420	0.2
F145.5245	1,645	0.0	485	0.0	1,160	0.0
Minor group F15.525	55,425	0.4	23,020	0.3	32,405	0.5
F151.5251	1,595	0.0	1,465	0.0	135	0.0
F152.5252	4,485	0.0	2,260	0.0	2,225	0.0
F153.5253	1,800	0.0	1,610	0.0	185	0.0
F154.5254	47,540	0.3	17,685	0.2	29,860	0.5
G Sales and service occupations	3,476,385	24.4	1,533,470	19.6	1,942,910	30.4
Major group G0	87,965	0.6	43,585	0.6	44,385	0.7
Minor group G01.621	87,965	0.6	43,580	0.6	44,385	0.7
G011.6211	40,525	0.3	19,050	0.2	21,470	0.3
G012.6212	15,105	0.1	5,230	0.1	9,875	0.2
G013.6213	4,030	0.0	1,005	0.0	3,025	0.0
G014.6214	2,080	0.0	935	0.0	1,150	0.0
G015.6215	20,140	0.1	13,725	0.2	6,420	0.1
G016.6216	6,085	0.0	3,645	0.0	2,445	0.0
Major group G1	354,615	2.5	244,275	3.1	110,340	1.7
Minor group G11.641	144,185	1.0	107,525	1.4	36,655	0.6
G111.6411	144,185	1.0	107,525	1.4	36,655	0.6
Minor group G12.622	60,805	0.4	47,495	0.6	13,310	0.2
G121.6221	60,805	0.4	47,495	0.6	13,310	0.2
Minor group G13.623	149,625	1.1	89,255	1.1	60,370	0.9
G131.6231	53,605	0.4	32,190	0.4	21,410	0.3
G132.6232	73,275	0.5	42,175	0.5	31,095	0.5
G133.6233	20,370	0.1	12,565	0.2	7,805	0.1
G134.6234	2,380	0.0	2,325	0.0	55	0.0
Major group G2	596,910	4.2	229,045	2.9	367,860	5.8
Minor group G21.642	596,915	4.2	229,045	2.9	367,860	5.8
G211.6421	596,910	4.2	229,045	2.9	367,865	5.8
Major group G3	243,610	1.7	27,865	0.4	215,745	3.4
Minor group G31.661	243,610	1.7	27,860	0.4	215,745	3.4
G311.6611	243,610	1.7	27,860	0.4	215,745	3.4
Major group G4	198,395	1.4	104,485	1.3	93,915	1.5
Minor group G41.624	198,400	1.4	104,485	1.3	93,915	1.5
G411.6241	19,550	0.1	15,900	0.2	3,655	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
G412.6242	178,845	1.3	88,590	1.1	90,260	1.4
Major group G5	280,650	2.0	62,110	0.8	218,535	3.4
Minor group G51.645	280,645	2.0	62,110	0.8	218,535	3.4
G511.6451	18,005	0.1	2,230	0.0	15,775	0.2
G512.6452	42,030	0.3	17,640	0.2	24,390	0.4
G513.6453	220,620	1.6	42,250	0.5	178,370	2.8
Major group G6	264,475	1.9	226,590	2.9	37,885	0.6
Minor group G61.626	83,590	0.6	77,800	1.0	5,785	0.1
G611.6261	59,040	0.4	53,515	0.7	5,530	0.1
G612.6262	24,545	0.2	24,285	0.3	255	0.0
Minor group G62.646	99,025	0.7	81,950	1.0	17,075	0.3
G621.6461	2,410	0.0	1,810	0.0	600	0.0
G622.6462	17,220	0.1	13,600	0.2	3,620	0.1
G623.6463	5,760	0.0	4,555	0.1	1,205	0.0
G624.6464	64,705	0.5	55,415	0.7	9,290	0.1
G625.6465	8,930	0.1	6,570	0.1	2,360	0.0
Minor group G63.665	81,870	0.6	66,840	0.9	15,025	0.2
G631.6651	81,865	0.6	66,835	0.9	15,030	0.2
Major group G7	95,075	0.7	39,415	0.5	55,660	0.9
Minor group G71.643	60,770	0.4	16,790	0.2	43,985	0.7
G711.6431	20,730	0.1	3,555	0.0	17,175	0.3
G712.6432	9,905	0.1	2,370	0.0	7,530	0.1
G713.6433	9,880	0.1	3,900	0.0	5,985	0.1
G714.6434	5,765	0.0	2,550	0.0	3,210	0.1
G715.6435	14,485	0.1	4,405	0.1	10,080	0.2
Minor group G72.644	11,080	0.1	5,975	0.1	5,100	0.1
G721.6441	7,440	0.1	2,800	0.0	4,645	0.1
G722.6442	3,640	0.0	3,175	0.0	460	0.0
Minor group G73.667	23,225	0.2	16,650	0.2	6,580	0.1
G731.6670	19,700	0.1	13,515	0.2	6,190	0.1
G732.6672	3,525	0.0	3,140	0.0	385	0.0
Major group G8	269,755	1.9	13,070	0.2	256,690	4.0
Minor group G81.647	269,755	1.9	13,065	0.2	256,685	4.0
G811.6471	64,070	0.5	4,010	0.1	60,055	0.9
G812.6472	48,530	0.3	4,100	0.1	44,430	0.7
G813.6470	72,845	0.5	2,745	0.0	70,105	1.1
G814.6474	84,305	0.6	2,205	0.0	82,100	1.3
Major group G9	1,084,935	7.6	543,045	6.9	541,895	8.5

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
Minor group G91.627	83,635	0.6	17,670	0.2	65,965	1.0
G911.6271	80,625	0.6	15,115	0.2	65,510	1.0
G912.6272	3,005	0.0	2,550	0.0	450	0.0
Minor group G92.648	25,515	0.2	3,380	0.0	22,135	0.3
G921.6481	3,460	0.0	295	0.0	3,165	0.0
G922.6482	12,455	0.1	425	0.0	12,030	0.2
G923.6483	9,330	0.1	2,615	0.0	6,715	0.1
G924.6484	270	0.0	50	0.0	220	0.0
Minor group G93.666	409,135	2.9	231,970	3.0	177,170	2.8
G931.6661	167,225	1.2	49,430	0.6	117,790	1.8
G932.6662	30,920	0.2	27,005	0.3	3,910	0.1
G933.6663	211,000	1.5	155,525	2.0	55,475	0.9
Minor group G94.625	69,420	0.5	43,225	0.6	26,195	0.4
G941.6251	31,905	0.2	24,135	0.3	7,770	0.1
G942.6252	37,520	0.3	19,095	0.2	18,420	0.3
Minor group G95.663	9,865	0.1	1,990	0.0	7,875	0.1
G951.6631	9,865	0.1	1,985	0.0	7,875	0.1
Minor group G96.664	235,620	1.7	89,475	1.1	146,145	2.3
G961.6641	108,755	0.8	29,940	0.4	78,820	1.2
G962.6642	126,860	0.9	59,530	0.8	67,325	1.1
Minor group G97.662	193,900	1.4	129,975	1.7	63,925	1.0
G971.6621	52,690	0.4	43,100	0.5	9,590	0.2
G972.6622	103,095	0.7	72,235	0.9	30,855	0.5
G973.6623	38,120	0.3	14,635	0.2	23,485	0.4
Minor group G98.668	57,840	0.4	25,355	0.3	32,480	0.5
G981.6681	26,445	0.2	6,705	0.1	19,735	0.3
G982.6682	9,745	0.1	3,025	0.0	6,715	0.1
G983.6683	21,655	0.2	15,625	0.2	6,025	0.1
H Trades, transport and equipment operators and related occupations	2,199,375	15.5	2,059,220	26.3	140,155	2.2
Major group H0	215,220	1.5	207,560	2.6	7,655	0.1
Minor group H01.721	189,930	1.3	184,185	2.3	5,750	0.1
H011.7211	5,945	0.0	5,820	0.1	130	0.0
H012.7212	21,140	0.1	20,650	0.3	495	0.0
H013.7213	8,295	0.1	8,205	0.1	90	0.0
H014.7214	13,285	0.1	13,050	0.2	230	0.0
H015.7215	25,410	0.2	25,130	0.3	280	0.0
H016.7216	34,080	0.2	33,310	0.4	765	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census – 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
H017.7217	23,655	0.2	23,330	0.3	325	0.0
H018.7218	8,925	0.1	6,965	0.1	1,955	0.0
H019.7219	49,200	0.3	47,720	0.6	1,480	0.0
Minor group H02.722	25,285	0.2	23,375	0.3	1,905	0.0
H021.7221	2,635	0.0	2,575	0.0	65	0.0
H022.7222	22,645	0.2	20,805	0.3	1,840	0.0
Major group H1	328,225	2.3	319,735	4.1	8,485	0.1
Minor group H11.725	54,740	0.4	54,255	0.7	490	0.0
H111.7251	30,240	0.2	30,020	0.4	220	0.0
H112.7252	20,560	0.1	20,360	0.3	195	0.0
H113.7253	3,945	0.0	3,875	0.0	70	0.0
Minor group H12.727	140,125	1.0	137,555	1.8	2,570	0.0
H121.7271	121,265	0.9	119,615	1.5	1,650	0.0
H122.7272	18,860	0.1	17,940	0.2	920	0.0
Minor group H13.728	54,550	0.4	53,720	0.7	830	0.0
H131.7281	19,130	0.1	18,970	0.2	165	0.0
H132.7282	9,130	0.1	8,995	0.1	130	0.0
H133.7283	5,720	0.0	5,585	0.1	135	0.0
H134.7284	20,570	0.1	20,170	0.3	405	0.0
Minor group H14.729	78,800	0.6	74,205	0.9	4,590	0.1
H141.7291	14,770	0.1	14,555	0.2	220	0.0
H142.7292	9,015	0.1	8,570	0.1	445	0.0
H143.7293	6,805	0.0	6,520	0.1	280	0.0
H144.7294	36,385	0.3	32,995	0.4	3,390	0.1
H145.7295	11,830	0.1	11,570	0.1	255	0.0
Major group H2	168,570	1.2	163,075	2.1	5,495	0.1
Minor group H21.724	140,790	1.0	135,945	1.7	4,850	0.1
H211.7241	54,810	0.4	54,085	0.7	730	0.0
H212.7242	22,505	0.2	22,285	0.3	220	0.0
H213.7243	6,160	0.0	5,985	0.1	180	0.0
H214.7244	13,475	0.1	13,225	0.2	245	0.0
H215.7245	8,895	0.1	8,375	0.1	520	0.0
H216.7246	30,915	0.2	28,105	0.4	2,815	0.0
H217.7247	4,030	0.0	3,885	0.0	145	0.0
Minor group H22.735	27,780	0.2	27,130	0.3	645	0.0
H221.7351	20,415	0.1	20,030	0.3	385	0.0
H222.7352	7,360	0.1	7,100	0.1	265	0.0
Major group H3	106,405	0.7	102,570	1.3	3,835	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
Minor group H31.723	63,850	0.4	60,895	0.8	2,960	0.0
H311.7231	47,620	0.3	45,385	0.6	2,240	0.0
H312.7232	16,235	0.1	15,515	0.2	720	0.0
Minor group H32.726	42,560	0.3	41,675	0.5	880	0.0
H321.7261	20,550	0.1	20,085	0.3	465	0.0
H322.7262	4,200	0.0	4,135	0.1	65	0.0
H323.7263	7,815	0.1	7,620	0.1	195	0.0
H324.7264	8,420	0.1	8,300	0.1	125	0.0
H325.7266	1,565	0.0	1,530	0.0	35	0.0
Major group H4	341,765	2.4	336,810	4.3	4,955	0.1
Minor group H41.731	150,480	1.1	148,350	1.9	2,125	0.0
H411.7311	66,945	0.5	66,190	0.8	755	0.0
H412.7312	42,070	0.3	41,750	0.5	320	0.0
H413.7313	10,285	0.1	10,170	0.1	115	0.0
H414.7314	5,245	0.0	5,205	0.1	40	0.0
H415.7315	15,440	0.1	14,935	0.2	505	0.0
H416.7316	4,295	0.0	4,070	0.1	225	0.0
H417.7317	2,095	0.0	1,955	0.0	140	0.0
H418.7318	4,100	0.0	4,070	0.1	30	0.0
Minor group H42.732	159,930	1.1	157,805	2.0	2,120	0.0
H421.7321	124,710	0.9	123,330	1.6	1,375	0.0
H422.7322	35,220	0.2	34,470	0.4	745	0.0
Minor group H43.733	31,360	0.2	30,655	0.4	705	0.0
H431.7331	3,995	0.0	3,900	0.0	95	0.0
H432.7332	11,115	0.1	10,875	0.1	240	0.0
H433.7333	8,780	0.1	8,505	0.1	275	0.0
H434.7334	1,175	0.0	1,165	0.0	15	0.0
H435.7335	6,285	0.0	6,210	0.1	75	0.0
Major group H5	119,135	0.8	80,015	1.0	39,125	0.6
Minor group H51.734	56,195	0.4	19,820	0.3	36,380	0.6
H511.7341	9,550	0.1	7,315	0.1	2,230	0.0
H512.7342	36,585	0.3	5,315	0.1	31,275	0.5
H513.7343	4,785	0.0	3,200	0.0	1,585	0.0
H514.7344	5,270	0.0	3,985	0.1	1,285	0.0
Minor group H52.738	6,820	0.0	6,425	0.1	395	0.0
H522.7382	840	0.0	760	0.0	85	0.0
H523.7383	5,975	0.0	5,660	0.1	315	0.0
Minor group H53.744	56,125	0.4	53,770	0.7	2,350	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census – 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
H531.7441	25,410	0.2	24,420	0.3	995	0.0
H532.7442	5,115	0.0	4,895	0.1	225	0.0
H533.7443	13,435	0.1	13,135	0.2	300	0.0
H534.7444	1,585	0.0	1,430	0.0	155	0.0
H535.7445	10,570	0.1	9,895	0.1	675	0.0
Major group H6	107,990	0.8	106,195	1.4	1,800	0.0
Minor group H61.742	89,040	0.6	87,495	1.1	1,545	0.0
H611.7421	71,725	0.5	70,485	0.9	1,245	0.0
H612.7422	17,310	0.1	17,010	0.2	300	0.0
Minor group H62.737	18,950	0.1	18,700	0.2	255	0.0
H621.7371	13,825	0.1	13,655	0.2	165	0.0
H622.7372	3,570	0.0	3,515	0.0	50	0.0
H623.7373	1,560	0.0	1,525	0.0	35	0.0
Major group H7	434,870	3.1	397,335	5.1	37,535	0.6
Minor group H71.741	395,430	2.8	359,380	4.6	36,050	0.6
H711.7411	204,195	1.4	199,975	2.6	4,215	0.1
H712.7412	69,410	0.5	46,195	0.6	23,220	0.4
H713.7413	31,510	0.2	29,475	0.4	2,030	0.0
H714.7414	90,315	0.6	83,730	1.1	6,580	0.1
Minor group H72.736	13,140	0.1	12,840	0.2	305	0.0
H721.7361	6,620	0.0	6,530	0.1	85	0.0
H722.7362	6,525	0.0	6,305	0.1	220	0.0
Minor group H73.743	26,295	0.2	25,115	0.3	1,180	0.0
H731.7431	2,710	0.0	2,610	0.0	100	0.0
H732.7432	6,155	0.0	6,090	0.1	65	0.0
H733.7433	5,420	0.0	5,175	0.1	245	0.0
H734.7434	1,125	0.0	1,110	0.0	20	0.0
H735.7435	1,980	0.0	1,750	0.0	230	0.0
H736.7436	1,215	0.0	1,190	0.0	30	0.0
H737.7437	7,680	0.1	7,190	0.1	490	0.0
Major group H8	377,195	2.7	345,920	4.4	31,270	0.5
Minor group H81.745	139,245	1.0	125,685	1.6	13,565	0.2
H811.7451	8,795	0.1	8,395	0.1	405	0.0
H812.7452	130,455	0.9	117,295	1.5	13,160	0.2
Minor group H82.761	172,615	1.2	161,120	2.1	11,495	0.2
H821.7611	154,670	1.1	146,005	1.9	8,660	0.1
H822.7612	17,945	0.1	15,110	0.2	2,840	0.0
Minor group H83.762	65,335	0.5	59,120	0.8	6,215	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
H831.7621	58,840	0.4	53,025	0.7	5,815	0.1
H832.7622	6,495	0.0	6,095	0.1	400	0.0
I Occupations unique to primary industry	734,515	5.2	569,250	7.3	165,270	2.6
Major group I0	465,145	3.3	330,380	4.2	134,760	2.1
Minor group I01.825	286,915	2.0	222,670	2.8	64,255	1.0
I011.8251	250,495	1.8	193,880	2.5	56,610	0.9
I012.8252	1,590	0.0	1,455	0.0	135	0.0
I013.8253	10,005	0.1	7,165	0.1	2,845	0.0
I014.8254	5,780	0.0	3,390	0.0	2,385	0.0
I015.8255	8,015	0.1	7,240	0.1	770	0.0
I016.8256	9,490	0.1	8,290	0.1	1,200	0.0
I017.8257	1,550	0.0	1,250	0.0	305	0.0
Minor group I02.843	178,230	1.3	107,720	1.4	70,515	1.1
I021.8431	150,375	1.1	92,295	1.2	58,080	0.9
I022.8432	27,850	0.2	15,420	0.2	12,430	0.2
Major group I1	139,315	1.0	131,300	1.7	8,015	0.1
Minor group I11.821	8,580	0.1	8,110	0.1	470	0.0
I111.8211	8,580	0.1	8,110	0.1	470	0.0
Minor group I12.822	11,025	0.1	10,855	0.1	170	0.0
I121.8221	6,600	0.0	6,510	0.1	90	0.0
I122.8222	4,425	0.0	4,340	0.1	80	0.0
Minor group I13.823	22,075	0.2	21,680	0.3	390	0.0
I131.8231	18,485	0.1	18,175	0.2	305	0.0
I132.8232	3,595	0.0	3,510	0.0	85	0.0
Minor group I14.841	8,895	0.1	8,735	0.1	160	0.0
I141.8411	2,565	0.0	2,490	0.0	70	0.0
I142.8412	6,335	0.0	6,250	0.1	90	0.0
Minor group I15.824	12,390	0.1	12,245	0.2	145	0.0
I151.8241	12,390	0.1	12,250	0.2	140	0.0
Minor group I16.842	31,865	0.2	30,260	0.4	1,600	0.0
I161.8421	23,815	0.2	23,505	0.3	315	0.0
I162.8422	8,045	0.1	6,755	0.1	1,290	0.0
Minor group I17.826	33,420	0.2	30,220	0.4	3,205	0.1
I171.8261	3,125	0.0	2,975	0.0	145	0.0
I172.8262	30,305	0.2	27,245	0.3	3,055	0.0
Minor group I18.844	11,065	0.1	9,185	0.1	1,875	0.0
I181.8441	9,900	0.1	8,180	0.1	1,725	0.0
I182.8442	1,165	0.0	1,010	0.0	150	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
Major group I2	130,055	0.9	107,565	1.4	22,490	0.4
Minor group I21.861	130,055	0.9	107,565	1.4	22,490	0.4
I211.8611	10,825	0.1	4,600	0.1	6,225	0.1
I212.8612	72,170	0.5	62,295	0.8	9,875	0.2
I213.8613	2,520	0.0	1,690	0.0	825	0.0
I214.8614	8,310	0.1	7,735	0.1	575	0.0
I215.8615	8,110	0.1	7,800	0.1	310	0.0
I216.8616	28,120	0.2	23,450	0.3	4,670	0.1
J Occupations unique to processing, manufacturing and utilities	1,070,300	7.5	743,470	9.5	326,830	5.1
Major group J0	76,295	0.5	66,270	0.8	10,025	0.2
Minor group J01.921	52,625	0.4	47,090	0.6	5,530	0.1
J011.9211	10,960	0.1	10,570	0.1	390	0.0
J012.9212	10,530	0.1	9,775	0.1	755	0.0
J013.9213	10,570	0.1	8,295	0.1	2,275	0.0
J014.9214	5,820	0.0	5,145	0.1	675	0.0
J015.9215	11,315	0.1	10,965	0.1	350	0.0
J016.9216	3,435	0.0	2,345	0.0	1,095	0.0
Minor group J02.922	23,670	0.2	19,175	0.2	4,490	0.1
J021.9221	4,420	0.0	4,065	0.1	355	0.0
J022.9222	2,400	0.0	1,780	0.0	620	0.0
J023.9223	1,955	0.0	1,685	0.0	270	0.0
J024.9224	5,100	0.0	4,800	0.1	300	0.0
J025.9225	3,600	0.0	1,485	0.0	2,110	0.0
J026.9226	3,160	0.0	2,980	0.0	180	0.0
J027.9227	3,035	0.0	2,375	0.0	650	0.0
Major group J1	554,345	3.9	383,160	4.9	171,190	2.7
Minor group J11.923	23,330	0.2	21,790	0.3	1,535	0.0
J112.9232	13,655	0.1	12,615	0.2	1,040	0.0
J113.9233	1,810	0.0	1,735	0.0	75	0.0
J114.9234	7,865	0.1	7,440	0.1	425	0.0
Minor group J12.941	40,430	0.3	36,720	0.5	3,705	0.1
J120.9410	13,245	0.1	12,570	0.2	675	0.0
J122.9412	9,865	0.1	9,120	0.1	745	0.0
J123.9413	6,155	0.0	4,920	0.1	1,235	0.0
J124.9414	6,230	0.0	5,795	0.1	430	0.0
J125.9415	4,940	0.0	4,320	0.1	620	0.0
Minor group J13.942	37,005	0.3	28,875	0.4	8,125	0.1

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
J131.9421	8,420	0.1	6,630	0.1	1,785	0.0
J132.9422	13,055	0.1	8,800	0.1	4,255	0.1
J133.9423	10,930	0.1	9,080	0.1	1,855	0.0
J134.9424	4,600	0.0	4,365	0.1	235	0.0
Minor group J14.943	46,060	0.3	41,630	0.5	4,430	0.1
J141.9431	15,500	0.1	14,970	0.2	530	0.0
J142.9432	5,335	0.0	5,090	0.1	240	0.0
J143.9433	3,680	0.0	3,335	0.0	340	0.0
J144.9434	6,475	0.0	5,770	0.1	705	0.0
J145.9435	8,020	0.1	5,940	0.1	2,080	0.0
J146.9436	7,055	0.0	6,515	0.1	540	0.0
Minor group J15.944	24,710	0.2	12,685	0.2	12,025	0.2
J151.9441	4,460	0.0	2,305	0.0	2,160	0.0
J152.9442	9,100	0.1	4,565	0.1	4,540	0.1
J153.9443	6,500	0.0	4,230	0.1	2,275	0.0
J154.9444	4,650	0.0	1,590	0.0	3,060	0.0
Minor group J16.945	84,540	0.6	12,220	0.2	72,325	1.1
J161.9451	71,700	0.5	5,630	0.1	66,070	1.0
J162.9452	8,305	0.1	5,120	0.1	3,180	0.0
J163.9453	870	0.0	625	0.0	240	0.0
J164.9454	3,665	0.0	835	0.0	2,830	0.0
Minor group J17.946	86,815	0.6	49,520	0.6	37,290	0.6
J171.9461	34,235	0.2	22,755	0.3	11,485	0.2
J172.9462	15,590	0.1	10,830	0.1	4,765	0.1
J173.9463	30,880	0.2	13,035	0.2	17,845	0.3
J174.9464	1,265	0.0	550	0.0	715	0.0
J175.9465	4,845	0.0	2,355	0.0	2,490	0.0
Minor group J18.947	65,645	0.5	45,435	0.6	20,210	0.3
J180.9470	38,690	0.3	31,880	0.4	6,810	0.1
J182.9472	6,165	0.0	4,495	0.1	1,670	0.0
J183.9473	9,645	0.1	4,090	0.1	5,555	0.1
J184.9474	11,145	0.1	4,970	0.1	6,170	0.1
Minor group J19.951	145,815	1.0	134,275	1.7	11,545	0.2
J191.9511	13,225	0.1	11,660	0.1	1,565	0.0
J192.9512	2,220	0.0	2,045	0.0	180	0.0
J193.9513	11,875	0.1	10,630	0.1	1,245	0.0
J194.9514	20,895	0.1	17,870	0.2	3,025	0.0
J195.9510	87,885	0.6	85,190	1.1	2,690	0.0

Appendix 1. Labour Force 15 Years and Over by Detailed Occupation (Based on the 1991 Standard Occupational Classification) and Sex, Showing Counts and 1991 Percentage Distribution, for Canada, 1991 Census - 20% Sample Data

Detailed Occupations	Both Sexes	% Distribution	Males	% Distribution	Females	% Distribution
J196.9516	4,535	0.0	3,670	0.0	865	0.0
J197.9517	5,180	0.0	3,205	0.0	1,970	0.0
Major group J2	195,020	1.4	138,985	1.8	56,035	0.9
Minor group J21.948	117,400	0.8	78,420	1.0	38,975	0.6
J211.9481	7,980	0.1	6,905	0.1	1,070	0.0
J212.9482	54,210	0.4	40,040	0.5	14,165	0.2
J213.9483	24,180	0.2	9,555	0.1	14,630	0.2
J214.9484	12,575	0.1	7,120	0.1	5,455	0.1
J215.9485	4,805	0.0	3,500	0.0	1,310	0.0
J216.9486	11,825	0.1	10,300	0.1	1,530	0.0
J217.9487	1,820	0.0	1,005	0.0	815	0.0
Minor group J22.949	77,620	0.5	60,565	0.8	17,060	0.3
J221.9491	4,270	0.0	3,975	0.1	290	0.0
J222.9492	15,870	0.1	12,460	0.2	3,405	0.1
J223.9493	9,705	0.1	8,520	0.1	1,185	0.0
J224.9494	6,345	0.0	5,215	0.1	1,130	0.0
J225.9495	11,940	0.1	7,200	0.1	4,740	0.1
J226.9496	18,120	0.1	16,510	0.2	1,605	0.0
J227.9497	2,285	0.0	2,100	0.0	185	0.0
J228.9498	9,100	0.1	4,585	0.1	4,525	0.1
Major group J3	244,640	1.7	155,055	2.0	89,585	1.4
Minor group J31.961	244,645	1.7	155,055	2.0	89,585	1.4
J311.9611	19,805	0.1	17,715	0.2	2,090	0.0
J312.9612	31,785	0.2	23,105	0.3	8,685	0.1
J313.9613	13,775	0.1	8,685	0.1	5,090	0.1
J314.9614	42,650	0.3	35,915	0.5	6,740	0.1
J315.9615	11,270	0.1	6,330	0.1	4,940	0.1
J316.9616	8,780	0.1	4,905	0.1	3,875	0.1
J317.9617	50,370	0.4	27,025	0.3	23,345	0.4
J318.9618	9,350	0.1	3,425	0.0	5,930	0.1
J319.9619	56,855	0.4	27,955	0.4	28,900	0.5

Appendix 2

**Population Who Worked Since January 1, 1990 by Occupation Unit Groups
(Based on the 1991 Standard Occupational Classification)
Showing Occupation Reported and Imputed (Number and Percentage Distribution)
by Sex, for Canada, 1991 Census - 20% Sample Data**

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
Total - All Occupations	15,509,255	100.00	14,719,590	100.00	789,665	100.00
A011.0011	5,330	0.03	4,970	0.03	360	0.05
A012.0012	21,170	0.14	20,315	0.14	855	0.11
A013.0013	25,655	0.17	24,950	0.17	710	0.09
A014.0014	9,645	0.06	9,050	0.06	595	0.08
A015.0015	36,500	0.24	34,795	0.24	1,705	0.22
A016.0016	47,515	0.31	45,065	0.31	2,450	0.31
A111.0111	65,345	0.42	62,910	0.43	2,435	0.31
A112.0112	29,735	0.19	28,795	0.20	935	0.12
A113.0113	10,295	0.07	9,985	0.07	310	0.04
A114.0114	26,175	0.17	25,260	0.17	915	0.12
A121.0210	24,845	0.16	24,085	0.16	760	0.10
A122.0213	27,055	0.17	26,310	0.18	745	0.09
A131.0611	98,490	0.64	94,730	0.64	3,760	0.48
A141.0720	37,710	0.24	36,105	0.25	1,605	0.20
A211.0621	363,875	2.35	347,735	2.36	16,140	2.04
A221.0631	109,615	0.71	104,075	0.71	5,540	0.70
A222.0632	27,900	0.18	26,070	0.18	1,830	0.23
A301.0121	30,220	0.19	29,085	0.20	1,135	0.14
A302.0122	54,605	0.35	52,845	0.36	1,760	0.22
A303.0123	12,130	0.08	11,610	0.08	515	0.07
A311.0131	13,125	0.08	12,590	0.09	535	0.07
A312.0132	4,730	0.03	4,615	0.03	115	0.01
A321.0311	19,605	0.13	18,795	0.13	810	0.10
A322.0312	7,675	0.05	7,460	0.05	215	0.03
A323.0313	30,165	0.19	29,325	0.20	840	0.11
A324.0314	16,715	0.11	16,060	0.11	655	0.08
A331.0411	5,430	0.04	5,295	0.04	135	0.02
A332.0412	4,240	0.03	4,110	0.03	130	0.02
A333.0413	1,775	0.01	1,725	0.01	50	0.01
A334.0414	4,780	0.03	4,670	0.03	110	0.01
A341.0511	4,005	0.03	3,890	0.03	115	0.01
A342.0512	12,655	0.08	12,155	0.08	500	0.06
A343.0513	8,910	0.06	8,530	0.06	380	0.05
A351.0641	3,025	0.02	2,920	0.02	105	0.01
A352.0642	1,545	0.01	1,455	0.01	85	0.01
A353.0643	19,640	0.13	18,880	0.13	760	0.10
A361.0651	38,690	0.25	37,055	0.25	1,635	0.21

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
A371.0711	48,490	0.31	46,490	0.32	2,000	0.25
A372.0712	29,145	0.19	27,750	0.19	1,395	0.18
A373.0713	20,780	0.13	20,035	0.14	745	0.09
A381.0811	10,630	0.07	10,155	0.07	475	0.06
A391.0911	69,660	0.45	66,755	0.45	2,905	0.37
A392.0912	10,055	0.06	9,660	0.07	395	0.05
B011.1111	114,685	0.74	110,645	0.75	4,040	0.51
B012.1112	14,595	0.09	14,090	0.10	500	0.06
B013.1113	15,725	0.10	15,030	0.10	695	0.09
B014.1114	23,150	0.15	22,400	0.15	750	0.09
B021.1121	24,590	0.16	23,725	0.16	865	0.11
B022.1122	24,675	0.16	23,900	0.16	775	0.10
B111.1231	112,515	0.73	106,165	0.72	6,350	0.80
B112.1232	30,435	0.20	29,210	0.20	1,220	0.15
B113.1233	19,690	0.13	18,875	0.13	815	0.10
B114.1234	11,680	0.08	11,145	0.08	535	0.07
B115.1235	10,300	0.07	10,025	0.07	275	0.03
B116.1236	3,410	0.02	3,270	0.02	140	0.02
B211.1241	455,910	2.94	432,540	2.94	23,370	2.96
B212.1242	46,585	0.30	44,510	0.30	2,075	0.26
B213.1243	47,325	0.31	45,115	0.31	2,210	0.28
B214.1244	5,870	0.04	5,605	0.04	265	0.03
B311.1221	109,555	0.71	104,680	0.71	4,875	0.62
B312.1222	12,145	0.08	11,745	0.08	400	0.05
B313.1223	8,075	0.05	7,855	0.05	220	0.03
B314.1224	19,895	0.13	18,665	0.13	1,235	0.16
B315.1225	20,205	0.13	19,485	0.13	715	0.09
B316.1226	5,825	0.04	5,685	0.04	135	0.02
B317.1227	3,500	0.02	3,270	0.02	225	0.03
B318.1228	19,745	0.13	18,985	0.13	760	0.10
B411.1211	32,345	0.21	30,965	0.21	1,375	0.17
B412.1212	42,780	0.28	41,005	0.28	1,775	0.22
B413.1213	5,975	0.04	5,805	0.04	170	0.02
B414.1214	16,080	0.10	15,255	0.10	825	0.10
B415.1215	16,805	0.11	16,390	0.11	415	0.05
B511.1411	238,120	1.54	225,080	1.53	13,045	1.65
B512.1412	40,045	0.26	38,095	0.26	1,945	0.25
B513.1413	35,465	0.23	33,700	0.23	1,765	0.22

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
B514.1414	147,450	0.95	139,610	0.95	7,840	0.99
B521.1421	39,945	0.26	38,150	0.26	1,795	0.23
B522.1422	93,565	0.60	88,970	0.60	4,595	0.58
B523.1423	9,300	0.06	8,915	0.06	385	0.05
B524.1424	18,155	0.12	17,180	0.12	975	0.12
B531.1431	278,095	1.79	264,695	1.80	13,405	1.70
B532.1432	33,765	0.22	32,355	0.22	1,405	0.18
B533.1433	108,835	0.70	103,520	0.70	5,310	0.67
B534.1434	65,010	0.42	61,930	0.42	3,080	0.39
B535.1435	16,755	0.11	16,135	0.11	620	0.08
B541.1441	55,875	0.36	53,530	0.36	2,345	0.30
B542.1442	12,340	0.08	11,930	0.08	410	0.05
B543.1443	3,375	0.02	3,235	0.02	145	0.02
B551.1451	15,770	0.10	14,800	0.10	970	0.12
B552.1452	8,410	0.05	7,995	0.05	415	0.05
B553.1453	67,795	0.44	64,625	0.44	3,170	0.40
B554.1454	26,790	0.17	25,095	0.17	1,695	0.21
B561.1461	50,540	0.33	47,860	0.33	2,685	0.34
B562.1462	25,045	0.16	25,045	0.17	0	---
B563.1463	45,660	0.29	41,140	0.28	4,520	0.57
B571.1471	106,015	0.68	100,385	0.68	5,625	0.71
B572.1472	48,470	0.31	46,000	0.31	2,470	0.31
B573.1473	17,855	0.12	17,065	0.12	785	0.10
B574.1474	47,925	0.31	45,620	0.31	2,305	0.29
B575.1475	21,030	0.14	20,155	0.14	875	0.11
B576.1476	1,400	0.01	1,355	0.01	45	0.01
C011.2111	2,070	0.01	2,040	0.01	30	0.00
C012.2112	10,385	0.07	10,005	0.07	380	0.05
C013.2113	8,985	0.06	8,710	0.06	275	0.03
C014.2114	965	0.01	930	0.01	35	0.00
C015.2115	1,500	0.01	1,465	0.01	35	0.00
C021.2121	9,050	0.06	8,810	0.06	240	0.03
C022.2122	4,135	0.03	4,050	0.03	90	0.01
C023.2123	4,895	0.03	4,730	0.03	170	0.02
C031.2131	36,680	0.24	35,430	0.24	1,245	0.16
C032.2132	25,945	0.17	25,030	0.17	915	0.12
C033.2133	34,185	0.22	33,045	0.22	1,135	0.14
C034.2134	8,295	0.05	8,105	0.06	190	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C041.2141	11,510	0.07	11,165	0.08	345	0.04
C042.2142	2,100	0.01	2,065	0.01	35	0.00
C043.2143	2,830	0.02	2,725	0.02	105	0.01
C044.2144	1,520	0.01	1,475	0.01	45	0.01
C045.2145	5,175	0.03	5,015	0.03	165	0.02
C046.2146	3,750	0.02	3,640	0.02	115	0.01
C047.2147	9,580	0.06	9,285	0.06	290	0.04
C048.2148	4,935	0.03	4,705	0.03	230	0.03
C051.2151	9,565	0.06	9,325	0.06	235	0.03
C052.2152	2,195	0.01	2,150	0.01	45	0.01
C053.2153	8,820	0.06	8,595	0.06	225	0.03
C054.2154	8,465	0.05	8,230	0.06	235	0.03
C061.2161	6,760	0.04	6,545	0.04	215	0.03
C062.2162	78,840	0.51	76,280	0.52	2,560	0.32
C063.2163	58,790	0.38	56,800	0.39	1,990	0.25
C111.2211	29,490	0.19	28,415	0.19	1,070	0.14
C112.2212	11,470	0.07	10,930	0.07	540	0.07
C113.2213	1,360	0.01	1,300	0.01	65	0.01
C121.2221	9,305	0.06	8,940	0.06	365	0.05
C122.2222	5,625	0.04	5,385	0.04	235	0.03
C123.2223	10,055	0.06	9,590	0.07	465	0.06
C124.2224	7,160	0.05	6,885	0.05	275	0.03
C125.2225	7,085	0.05	6,770	0.05	315	0.04
C131.2230	21,445	0.14	20,640	0.14	805	0.10
C132.2232	9,730	0.06	9,330	0.06	405	0.05
C133.2233	10,195	0.07	9,905	0.07	290	0.04
C141.2241	28,550	0.18	27,450	0.19	1,100	0.14
C142.2242	59,835	0.39	57,695	0.39	2,140	0.27
C143.2243	6,875	0.04	6,745	0.05	130	0.02
C144.2244	5,545	0.04	5,245	0.04	305	0.04
C151.2251	4,900	0.03	4,720	0.03	180	0.02
C152.2252	3,610	0.02	3,505	0.02	105	0.01
C153.2253	40,170	0.26	38,640	0.26	1,530	0.19
C154.2254	5,995	0.04	5,750	0.04	245	0.03
C155.2255	4,570	0.03	4,370	0.03	200	0.03
C161.2261	3,215	0.02	3,155	0.02	60	0.01
C162.2262	4,235	0.03	4,035	0.03	200	0.03
C163.2263	12,275	0.08	11,865	0.08	415	0.05

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census – 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C164.2264	9,640	0.06	9,230	0.06	410	0.05
C171.2271	11,580	0.07	11,190	0.08	385	0.05
C172.2272	4,450	0.03	4,280	0.03	170	0.02
C173.2273	5,015	0.03	4,820	0.03	200	0.03
C174.2274	3,120	0.02	3,050	0.02	70	0.01
C175.2275	3,010	0.02	2,895	0.02	115	0.01
D011.3111	18,845	0.12	18,420	0.13	430	0.05
D012.3112	38,535	0.25	37,615	0.26	920	0.12
D013.3113	13,705	0.09	13,385	0.09	320	0.04
D014.3114	4,555	0.03	4,495	0.03	60	0.01
D021.3121	3,190	0.02	3,140	0.02	50	0.01
D022.3122	3,515	0.02	3,470	0.02	40	0.01
D023.3123	810	0.01	790	0.01	25	0.00
D031.3131	18,515	0.12	17,745	0.12	770	0.10
D032.3132	4,935	0.03	4,780	0.03	155	0.02
D041.3141	3,995	0.03	3,905	0.03	90	0.01
D042.3142	11,530	0.07	11,205	0.08	330	0.04
D043.3143	5,995	0.04	5,865	0.04	130	0.02
D044.3144	1,445	0.01	1,400	0.01	45	0.01
D111.3151	20,190	0.13	19,405	0.13	785	0.10
D112.3152	242,315	1.56	233,960	1.59	8,355	1.06
D211.3211	20,710	0.13	20,070	0.14	640	0.08
D212.3212	25,255	0.16	24,295	0.17	955	0.12
D213.3213	3,420	0.02	3,285	0.02	135	0.02
D214.3214	4,695	0.03	4,590	0.03	105	0.01
D215.3215	15,160	0.10	14,680	0.10	480	0.06
D216.3216	1,480	0.01	1,460	0.01	20	0.00
D217.3217	1,725	0.01	1,655	0.01	70	0.01
D218.3218	875	0.01	865	0.01	10	0.00
D219.3219	6,255	0.04	6,025	0.04	230	0.03
D221.3221	1,905	0.01	1,815	0.01	90	0.01
D222.3222	9,915	0.06	9,605	0.07	310	0.04
D223.3220	6,260	0.04	5,975	0.04	280	0.04
D231.3231	4,070	0.03	3,960	0.03	115	0.01
D232.3232	3,725	0.02	3,500	0.02	225	0.03
D233.3233	56,885	0.37	54,570	0.37	2,315	0.29
D234.3234	12,705	0.08	12,250	0.08	455	0.06
D235.3235	6,300	0.04	6,040	0.04	260	0.03

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
D311.3411	23,590	0.15	22,690	0.15	900	0.11
D312.3413	129,665	0.84	121,955	0.83	7,710	0.98
D313.3414	19,185	0.12	18,265	0.12	915	0.12
E011.4111	2,415	0.02	2,270	0.02	145	0.02
E012.4112	54,440	0.35	53,005	0.36	1,435	0.18
E021.4151	10,440	0.07	10,215	0.07	225	0.03
E022.4152	33,585	0.22	32,375	0.22	1,210	0.15
E023.4153	19,525	0.13	18,840	0.13	685	0.09
E024.4154	25,890	0.17	24,640	0.17	1,250	0.16
E025.4155	3,775	0.02	3,670	0.02	110	0.01
E031.4161	9,525	0.06	9,190	0.06	330	0.04
E032.4162	5,635	0.04	5,510	0.04	125	0.02
E033.4163	27,795	0.18	27,010	0.18	785	0.10
E034.4160	31,195	0.20	30,165	0.20	1,030	0.13
E035.4166	13,735	0.09	13,230	0.09	505	0.06
E036.4167	12,260	0.08	11,855	0.08	405	0.05
E037.4168	2,130	0.01	2,050	0.01	85	0.01
E038.4169	3,960	0.03	3,810	0.03	155	0.02
E111.4121	46,375	0.30	45,045	0.31	1,330	0.17
E112.4122	40,325	0.26	38,760	0.26	1,570	0.20
E121.4131	89,460	0.58	86,225	0.59	3,235	0.41
E131.4141	166,490	1.07	162,700	1.11	3,790	0.48
E132.4142	231,460	1.49	225,725	1.53	5,740	0.73
E133.4143	13,115	0.08	12,725	0.09	390	0.05
E211.4211	16,975	0.11	16,310	0.11	670	0.08
E212.4212	66,915	0.43	63,385	0.43	3,530	0.45
E213.4213	12,005	0.08	11,655	0.08	350	0.04
E214.4215	18,930	0.12	18,155	0.12	775	0.10
E215.4216	6,690	0.04	6,445	0.04	245	0.03
E217.4217	13,115	0.08	11,160	0.08	1,955	0.25
F011.5111	13,770	0.09	13,065	0.09	705	0.09
F012.5112	1,480	0.01	1,450	0.01	30	0.00
F013.5113	1,635	0.01	1,590	0.01	45	0.01
F021.5121	16,505	0.11	15,940	0.11	565	0.07
F022.5122	7,080	0.05	6,840	0.05	240	0.03
F023.5123	14,260	0.09	13,580	0.09	680	0.09
F024.5124	25,375	0.16	24,445	0.17	935	0.12
F025.5125	10,460	0.07	10,080	0.07	380	0.05

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
F031.5131	13,410	0.09	13,005	0.09	405	0.05
F032.5132	1,985	0.01	1,930	0.01	50	0.01
F033.5133	27,980	0.18	26,490	0.18	1,490	0.19
F034.5134	4,435	0.03	4,250	0.03	180	0.02
F035.5135	5,525	0.04	5,200	0.04	325	0.04
F036.5136	12,670	0.08	12,155	0.08	515	0.07
F111.5211	18,245	0.12	17,530	0.12	715	0.09
F112.5212	4,380	0.03	4,210	0.03	170	0.02
F121.5221	11,110	0.07	10,705	0.07	405	0.05
F122.5222	3,095	0.02	3,015	0.02	80	0.01
F123.5223	7,375	0.05	7,115	0.05	260	0.03
F124.5224	3,455	0.02	3,330	0.02	125	0.02
F125.5225	5,970	0.04	5,725	0.04	245	0.03
F126.5226	6,165	0.04	5,920	0.04	245	0.03
F127.5227	3,590	0.02	3,445	0.02	145	0.02
F131.5231	9,790	0.06	9,380	0.06	410	0.05
F132.5232	3,500	0.02	3,300	0.02	200	0.03
F141.5241	30,035	0.19	28,815	0.20	1,225	0.16
F142.5242	8,100	0.05	7,835	0.05	265	0.03
F143.5243	9,765	0.06	9,385	0.06	380	0.05
F144.5244	24,220	0.16	22,700	0.15	1,525	0.19
F145.5245	1,735	0.01	1,680	0.01	55	0.01
F151.5251	2,050	0.01	1,980	0.01	70	0.01
F152.5252	5,545	0.04	5,235	0.04	310	0.04
F153.5253	2,650	0.02	2,445	0.02	200	0.03
F154.5254	63,225	0.41	58,850	0.40	4,375	0.55
G011.6211	42,565	0.27	40,800	0.28	1,760	0.22
G012.6212	16,295	0.11	15,295	0.10	1,000	0.13
G013.6213	4,315	0.03	4,095	0.03	225	0.03
G014.6214	2,260	0.01	2,150	0.01	110	0.01
G015.6215	21,720	0.14	20,580	0.14	1,140	0.14
G016.6216	6,635	0.04	6,355	0.04	285	0.04
G111.6411	151,365	0.98	143,845	0.98	7,525	0.95
G121.6221	62,790	0.40	60,820	0.41	1,970	0.25
G131.6231	56,100	0.36	53,620	0.36	2,480	0.31
G132.6232	78,165	0.50	74,675	0.51	3,495	0.44
G133.6233	21,345	0.14	20,605	0.14	740	0.09
G134.6234	2,515	0.02	2,400	0.02	115	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G211.6421	679,830	4.38	639,420	4.34	40,410	5.12
G311.6611	287,025	1.85	267,515	1.82	19,505	2.47
G411.6241	20,905	0.13	19,775	0.13	1,125	0.14
G412.6242	205,705	1.33	190,405	1.29	15,300	1.94
G511.6451	20,920	0.13	19,490	0.13	1,435	0.18
G512.6452	46,775	0.30	44,425	0.30	2,350	0.30
G513.6453	260,905	1.68	243,990	1.66	16,915	2.14
G611.6261	60,900	0.39	59,090	0.40	1,810	0.23
G612.6262	26,040	0.17	24,915	0.17	1,125	0.14
G621.6461	2,555	0.02	2,430	0.02	125	0.02
G622.6462	18,390	0.12	17,545	0.12	845	0.11
G623.6463	6,105	0.04	5,800	0.04	305	0.04
G624.6464	68,310	0.44	64,680	0.44	3,630	0.46
G625.6465	9,485	0.06	9,120	0.06	365	0.05
G631.6651	91,500	0.59	85,255	0.58	6,245	0.79
G711.6431	22,240	0.14	21,305	0.14	940	0.12
G712.6432	10,560	0.07	10,215	0.07	345	0.04
G713.6433	10,290	0.07	10,290	0.07	5	0.00
G714.6434	6,410	0.04	5,620	0.04	790	0.10
G715.6435	16,125	0.10	15,145	0.10	980	0.12
G721.6441	9,040	0.06	8,460	0.06	580	0.07
G722.6442	4,110	0.03	3,770	0.03	340	0.04
G731.6670	25,420	0.16	23,375	0.16	2,050	0.26
G732.6672	3,875	0.02	3,675	0.02	200	0.03
G811.6471	73,875	0.48	68,255	0.46	5,615	0.71
G812.6472	54,315	0.35	51,195	0.35	3,120	0.40
G813.6470	83,090	0.54	78,795	0.54	4,295	0.54
G814.6474	106,325	0.69	98,665	0.67	7,665	0.97
G911.6271	87,510	0.56	83,590	0.57	3,915	0.50
G912.6272	3,235	0.02	3,140	0.02	90	0.01
G921.6481	3,990	0.03	3,810	0.03	180	0.02
G922.6482	13,410	0.09	12,740	0.09	670	0.08
G923.6483	10,560	0.07	9,845	0.07	720	0.09
G924.6484	305	0.00	305	0.00	0	---
G931.6661	197,970	1.28	182,295	1.24	15,675	1.99
G932.6662	35,330	0.23	33,125	0.23	2,200	0.28
G933.6663	239,580	1.54	221,840	1.51	17,740	2.25
G941.6251	34,265	0.22	32,395	0.22	1,870	0.24

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G942.6252	41,785	0.27	39,340	0.27	2,445	0.31
G951.6631	10,840	0.07	10,090	0.07	750	0.09
G961.6641	138,540	0.89	127,185	0.86	11,355	1.44
G962.6642	158,450	1.02	144,430	0.98	14,020	1.78
G971.6621	63,185	0.41	58,575	0.40	4,610	0.58
G972.6622	119,180	0.77	111,180	0.76	8,000	1.01
G973.6623	47,150	0.30	44,250	0.30	2,900	0.37
G981.6681	29,735	0.19	27,350	0.19	2,385	0.30
G982.6682	10,945	0.07	10,235	0.07	710	0.09
G983.6683	26,105	0.17	24,245	0.16	1,855	0.23
H011.7211	6,255	0.04	5,965	0.04	290	0.04
H012.7212	22,150	0.14	21,310	0.14	840	0.11
H013.7213	8,735	0.06	8,460	0.06	275	0.03
H014.7214	13,850	0.09	13,245	0.09	605	0.08
H015.7215	27,130	0.17	25,935	0.18	1,190	0.15
H016.7216	35,585	0.23	34,095	0.23	1,490	0.19
H017.7217	24,980	0.16	23,840	0.16	1,140	0.14
H018.7218	9,320	0.06	8,930	0.06	390	0.05
H019.7219	52,005	0.34	49,595	0.34	2,410	0.31
H021.7221	2,835	0.02	2,735	0.02	100	0.01
H022.7222	23,880	0.15	22,765	0.15	1,115	0.14
H111.7251	31,775	0.20	30,430	0.21	1,345	0.17
H112.7252	21,490	0.14	20,675	0.14	815	0.10
H113.7253	4,090	0.03	3,950	0.03	135	0.02
H121.7271	130,210	0.84	123,725	0.84	6,480	0.82
H122.7272	20,035	0.13	18,915	0.13	1,115	0.14
H131.7281	20,560	0.13	19,565	0.13	995	0.13
H132.7282	9,740	0.06	9,250	0.06	490	0.06
H133.7283	6,105	0.04	5,770	0.04	330	0.04
H134.7284	21,890	0.14	20,870	0.14	1,020	0.13
H141.7291	16,050	0.10	15,300	0.10	750	0.09
H142.7292	9,535	0.06	9,155	0.06	380	0.05
H143.7293	7,340	0.05	7,015	0.05	320	0.04
H144.7294	40,795	0.26	38,725	0.26	2,070	0.26
H145.7295	12,615	0.08	12,015	0.08	600	0.08
H211.7241	57,600	0.37	55,495	0.38	2,105	0.27
H212.7242	23,355	0.15	22,600	0.15	755	0.10
H213.7243	6,330	0.04	6,140	0.04	190	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H214.7244	13,955	0.09	13,380	0.09	575	0.07
H215.7245	9,495	0.06	9,115	0.06	375	0.05
H216.7246	32,295	0.21	31,005	0.21	1,285	0.16
H217.7247	4,140	0.03	4,025	0.03	115	0.01
H221.7351	21,250	0.14	20,435	0.14	820	0.10
H222.7352	7,590	0.05	7,355	0.05	235	0.03
H311.7231	49,815	0.32	47,600	0.32	2,220	0.28
H312.7232	16,880	0.11	16,080	0.11	800	0.10
H321.7261	21,535	0.14	20,685	0.14	850	0.11
H322.7262	4,505	0.03	4,390	0.03	115	0.01
H323.7263	8,225	0.05	7,880	0.05	345	0.04
H324.7264	8,975	0.06	8,660	0.06	320	0.04
H326.7266	1,680	0.01	1,615	0.01	65	0.01
H411.7311	69,640	0.45	66,820	0.45	2,820	0.36
H412.7312	43,660	0.28	41,970	0.29	1,690	0.21
H413.7313	10,680	0.07	10,225	0.07	455	0.06
H414.7314	5,570	0.04	5,335	0.04	235	0.03
H415.7315	16,135	0.10	15,345	0.10	790	0.10
H416.7316	4,500	0.03	4,340	0.03	160	0.02
H417.7317	2,165	0.01	2,080	0.01	85	0.01
H418.7318	4,245	0.03	4,080	0.03	165	0.02
H421.7321	129,790	0.84	124,175	0.84	5,615	0.71
H422.7322	37,035	0.24	35,380	0.24	1,660	0.21
H431.7331	4,155	0.03	3,995	0.03	160	0.02
H432.7332	11,660	0.08	11,205	0.08	455	0.06
H433.7333	9,190	0.06	8,885	0.06	305	0.04
H434.7334	1,215	0.01	1,180	0.01	35	0.00
H435.7335	6,715	0.04	6,420	0.04	295	0.04
H511.7341	10,330	0.07	9,790	0.07	545	0.07
H512.7342	41,845	0.27	38,775	0.26	3,070	0.39
H513.7343	5,305	0.03	4,945	0.03	360	0.05
H514.7344	5,665	0.04	5,360	0.04	310	0.04
H522.7382	930	0.01	885	0.01	40	0.01
H523.7383	6,200	0.04	5,990	0.04	210	0.03
H531.7441	27,270	0.18	25,915	0.18	1,360	0.17
H532.7442	5,345	0.03	5,105	0.03	245	0.03
H533.7443	14,415	0.09	13,560	0.09	855	0.11
H534.7444	1,690	0.01	1,595	0.01	95	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H535.7445	11,480	0.07	10,935	0.07	545	0.07
H611.7421	75,790	0.49	72,045	0.49	3,745	0.47
H612.7422	18,650	0.12	17,645	0.12	1,000	0.13
H621.7371	14,525	0.09	13,825	0.09	700	0.09
H622.7372	3,795	0.02	3,605	0.02	190	0.02
H623.7373	1,670	0.01	1,605	0.01	65	0.01
H711.7411	215,250	1.39	203,485	1.38	11,765	1.49
H712.7412	73,505	0.47	68,880	0.47	4,625	0.59
H713.7413	34,455	0.22	32,450	0.22	2,005	0.25
H714.7414	97,695	0.63	92,295	0.63	5,405	0.68
H721.7361	7,190	0.05	6,905	0.05	285	0.04
H722.7362	7,100	0.05	6,745	0.05	355	0.04
H731.7431	2,830	0.02	2,720	0.02	110	0.01
H732.7432	6,575	0.04	6,135	0.04	440	0.06
H733.7433	5,945	0.04	5,675	0.04	270	0.03
H734.7434	1,260	0.01	1,205	0.01	50	0.01
H735.7435	2,240	0.01	2,115	0.01	125	0.02
H736.7436	1,315	0.01	1,260	0.01	50	0.01
H737.7437	8,245	0.05	7,780	0.05	465	0.06
H811.7451	9,975	0.06	9,455	0.06	520	0.07
H812.7452	142,535	0.92	134,600	0.91	7,930	1.00
H821.7611	175,105	1.13	165,565	1.12	9,535	1.21
H822.7612	20,665	0.13	19,665	0.13	1,000	0.13
H831.7621	67,910	0.44	62,835	0.43	5,075	0.64
H832.7622	7,180	0.05	6,775	0.05	405	0.05
I011.8251	262,060	1.69	244,900	1.66	17,155	2.17
I012.8252	1,645	0.01	1,575	0.01	70	0.01
I013.8253	10,550	0.07	9,940	0.07	610	0.08
I014.8254	6,145	0.04	5,725	0.04	420	0.05
I015.8255	8,500	0.05	8,095	0.05	405	0.05
I016.8256	10,005	0.06	9,405	0.06	605	0.08
I017.8257	1,640	0.01	1,565	0.01	75	0.01
I021.8431	170,825	1.10	156,885	1.07	13,940	1.77
I022.8432	32,130	0.21	29,790	0.20	2,335	0.30
I111.8211	9,160	0.06	8,660	0.06	500	0.06
I121.8221	6,880	0.04	6,590	0.04	285	0.04
I122.8222	4,700	0.03	4,545	0.03	155	0.02
I131.8231	19,690	0.13	18,745	0.13	945	0.12

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
I132.8232	3,755	0.02	3,550	0.02	205	0.03
I141.8411	2,685	0.02	2,580	0.02	105	0.01
I142.8412	6,540	0.04	6,325	0.04	215	0.03
I151.8241	13,320	0.09	12,630	0.09	690	0.09
I161.8421	26,970	0.17	25,600	0.17	1,370	0.17
I162.8422	9,510	0.06	8,855	0.06	650	0.08
I171.8261	3,425	0.02	3,280	0.02	145	0.02
I172.8262	35,405	0.23	33,895	0.23	1,510	0.19
I181.8441	11,525	0.07	10,920	0.07	605	0.08
I182.8442	1,870	0.01	1,665	0.01	205	0.03
I211.8611	16,080	0.10	14,875	0.10	1,205	0.15
I212.8612	83,845	0.54	77,710	0.53	6,135	0.78
I213.8613	3,015	0.02	2,850	0.02	170	0.02
I214.8614	9,035	0.06	8,710	0.06	325	0.04
I215.8615	8,800	0.06	8,405	0.06	395	0.05
I216.8616	31,950	0.21	29,960	0.20	1,990	0.25
J011.9211	11,440	0.07	11,005	0.07	435	0.06
J012.9212	10,955	0.07	10,580	0.07	380	0.05
J013.9213	11,250	0.07	10,715	0.07	530	0.07
J014.9214	6,020	0.04	5,705	0.04	310	0.04
J015.9215	11,970	0.08	11,460	0.08	510	0.06
J016.9216	3,605	0.02	3,490	0.02	115	0.01
J021.9221	4,530	0.03	4,305	0.03	225	0.03
J022.9222	2,580	0.02	2,470	0.02	105	0.01
J023.9223	2,080	0.01	1,980	0.01	100	0.01
J024.9224	5,280	0.03	5,070	0.03	210	0.03
J025.9225	3,890	0.03	3,670	0.02	220	0.03
J026.9226	3,315	0.02	3,235	0.02	85	0.01
J027.9227	3,230	0.02	3,120	0.02	115	0.01
J112.9232	14,140	0.09	13,650	0.09	485	0.06
J113.9233	1,860	0.01	1,805	0.01	55	0.01
J114.9234	8,350	0.05	8,010	0.05	335	0.04
J120.9410	13,960	0.09	13,460	0.09	500	0.06
J122.9412	10,470	0.07	9,990	0.07	480	0.06
J123.9413	6,545	0.04	6,225	0.04	320	0.04
J124.9414	6,645	0.04	6,335	0.04	310	0.04
J125.9415	5,225	0.03	4,990	0.03	235	0.03
J131.9421	8,945	0.06	8,520	0.06	430	0.05

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J132.9422	13,955	0.09	13,225	0.09	730	0.09
J133.9423	11,375	0.07	10,915	0.07	460	0.06
J134.9424	4,810	0.03	4,635	0.03	175	0.02
J141.9431	16,555	0.11	15,660	0.11	895	0.11
J142.9432	5,625	0.04	5,435	0.04	185	0.02
J143.9433	3,805	0.02	3,625	0.02	180	0.02
J144.9434	6,935	0.04	6,665	0.05	275	0.03
J145.9435	8,720	0.06	8,335	0.06	380	0.05
J146.9436	7,430	0.05	7,145	0.05	285	0.04
J151.9441	4,830	0.03	4,560	0.03	270	0.03
J152.9442	10,035	0.06	9,430	0.06	605	0.08
J153.9443	7,030	0.05	6,680	0.05	350	0.04
J154.9444	5,095	0.03	4,825	0.03	270	0.03
J161.9451	82,130	0.53	76,315	0.52	5,820	0.74
J162.9452	9,110	0.06	8,540	0.06	570	0.07
J163.9453	985	0.01	935	0.01	50	0.01
J164.9454	4,125	0.03	3,905	0.03	220	0.03
J171.9461	37,455	0.24	35,190	0.24	2,270	0.29
J172.9462	16,735	0.11	15,745	0.11	990	0.13
J173.9463	37,830	0.24	36,085	0.25	1,745	0.22
J174.9464	1,450	0.01	1,355	0.01	95	0.01
J175.9465	5,450	0.04	5,170	0.04	280	0.04
J180.9470	40,875	0.26	38,840	0.26	2,035	0.26
J182.9472	6,500	0.04	6,255	0.04	245	0.03
J183.9473	10,925	0.07	10,345	0.07	580	0.07
J184.9474	12,215	0.08	11,470	0.08	745	0.09
J191.9511	13,880	0.09	13,260	0.09	620	0.08
J192.9512	2,305	0.01	2,215	0.02	90	0.01
J193.9513	12,845	0.08	12,190	0.08	650	0.08
J194.9514	22,175	0.14	21,030	0.14	1,145	0.14
J195.9510	92,030	0.59	88,160	0.60	3,870	0.49
J196.9516	4,900	0.03	4,670	0.03	230	0.03
J197.9517	5,615	0.04	5,410	0.04	210	0.03
J211.9481	8,255	0.05	7,910	0.05	345	0.04
J212.9482	57,335	0.37	54,455	0.37	2,880	0.36
J213.9483	26,225	0.17	24,660	0.17	1,560	0.20
J214.9484	13,510	0.09	12,800	0.09	710	0.09
J215.9485	5,115	0.03	4,855	0.03	260	0.03

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Both Sexes)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J216.9486	12,535	0.08	11,935	0.08	600	0.08
J217.9487	2,010	0.01	1,950	0.01	60	0.01
J221.9491	4,555	0.03	4,385	0.03	170	0.02
J222.9492	17,375	0.11	16,355	0.11	1,020	0.13
J223.9493	10,395	0.07	9,855	0.07	535	0.07
J224.9494	6,900	0.04	6,575	0.04	330	0.04
J225.9495	13,040	0.08	12,290	0.08	750	0.09
J226.9496	19,235	0.12	18,345	0.12	890	0.11
J227.9497	2,430	0.02	2,290	0.02	135	0.02
J228.9498	10,065	0.06	9,600	0.07	465	0.06
J311.9611	21,340	0.14	20,245	0.14	1,095	0.14
J312.9612	34,665	0.22	31,925	0.22	2,740	0.35
J313.9613	15,305	0.10	14,450	0.10	855	0.11
J314.9614	46,670	0.30	44,490	0.30	2,180	0.28
J315.9615	12,285	0.08	11,640	0.08	645	0.08
J316.9616	9,925	0.06	9,215	0.06	710	0.09
J317.9617	56,715	0.37	53,615	0.36	3,100	0.39
J318.9618	11,150	0.07	11,020	0.07	130	0.02
J319.9619	66,380	0.43	60,095	0.41	6,285	0.80

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
Total - All Occupations	7,114,400	100.00	6,727,270	100.00	387,130	100.00
A011.0011	1,785	0.03	1,680	0.02	105	0.03
A012.0012	6,150	0.09	5,825	0.09	325	0.08
A013.0013	4,290	0.06	4,210	0.06	80	0.02
A014.0014	3,835	0.05	3,600	0.05	235	0.06
A015.0015	5,610	0.08	5,300	0.08	305	0.08
A016.0016	4,025	0.06	3,800	0.06	225	0.06
A111.0111	22,995	0.32	22,085	0.33	910	0.24
A112.0112	12,880	0.18	12,510	0.19	370	0.10
A113.0113	2,210	0.03	2,140	0.03	70	0.02
A114.0114	10,510	0.15	10,105	0.15	400	0.10
A121.0210	1,820	0.03	1,795	0.03	20	0.01
A122.0213	6,105	0.09	5,930	0.09	175	0.05
A131.0611	22,135	0.31	21,230	0.32	905	0.23
A141.0720	7,235	0.10	6,960	0.10	275	0.07
A211.0621	135,095	1.90	128,105	1.90	6,995	1.81
A221.0631	48,635	0.68	46,100	0.69	2,535	0.65
A222.0632	13,030	0.18	12,130	0.18	900	0.23
A301.0121	8,305	0.12	7,975	0.12	330	0.09
A302.0122	24,775	0.35	23,860	0.35	915	0.24
A303.0123	4,170	0.06	3,970	0.06	195	0.05
A311.0131	3,490	0.05	3,290	0.05	200	0.05
A312.0132	1,580	0.02	1,535	0.02	45	0.01
A321.0311	13,855	0.19	13,200	0.20	660	0.17
A322.0312	3,450	0.05	3,355	0.05	95	0.02
A323.0313	9,025	0.13	8,675	0.13	350	0.09
A324.0314	10,795	0.15	10,350	0.15	445	0.11
A331.0411	2,230	0.03	2,165	0.03	65	0.02
A332.0412	950	0.01	930	0.01	20	0.01
A333.0413	665	0.01	635	0.01	30	0.01
A334.0414	1,390	0.02	1,370	0.02	25	0.01
A341.0511	2,590	0.04	2,515	0.04	80	0.02
A342.0512	4,630	0.07	4,460	0.07	170	0.04
A343.0513	3,985	0.06	3,770	0.06	215	0.06
A351.0641	55	0.00	55	0.00	0	0.00
A352.0642	15	0.00	15	0.00	0	---
A353.0643	1,950	0.03	1,870	0.03	80	0.02
A361.0651	15,320	0.22	14,595	0.22	725	0.19

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
A371.0711	2,440	0.03	2,360	0.04	80	0.02
A372.0712	975	0.01	950	0.01	25	0.01
A373.0713	2,775	0.04	2,640	0.04	130	0.03
A381.0811	670	0.01	660	0.01	10	0.00
A391.0911	8,055	0.11	7,705	0.11	350	0.09
A392.0912	840	0.01	805	0.01	35	0.01
B011.1111	48,890	0.69	47,035	0.70	1,855	0.48
B012.1112	5,685	0.08	5,460	0.08	225	0.06
B013.1113	4,535	0.06	4,300	0.06	235	0.06
B014.1114	8,015	0.11	7,735	0.11	280	0.07
B021.1121	11,630	0.16	11,240	0.17	390	0.10
B022.1122	9,465	0.13	9,160	0.14	305	0.08
B111.1231	103,340	1.45	97,335	1.45	6,005	1.55
B112.1232	21,855	0.31	20,940	0.31	920	0.24
B113.1233	9,250	0.13	8,880	0.13	370	0.10
B114.1234	7,575	0.11	7,265	0.11	310	0.08
B115.1235	1,960	0.03	1,930	0.03	30	0.01
B116.1236	1,725	0.02	1,635	0.02	90	0.02
B211.1241	449,330	6.32	426,220	6.34	23,110	5.97
B212.1242	46,050	0.65	43,990	0.65	2,055	0.53
B213.1243	46,765	0.66	44,575	0.66	2,190	0.57
B214.1244	5,445	0.08	5,185	0.08	255	0.07
B311.1221	82,720	1.16	78,945	1.17	3,775	0.98
B312.1222	10,040	0.14	9,700	0.14	340	0.09
B313.1223	5,545	0.08	5,370	0.08	175	0.05
B314.1224	10,720	0.15	10,020	0.15	705	0.18
B315.1225	7,855	0.11	7,515	0.11	340	0.09
B316.1226	4,010	0.06	3,925	0.06	85	0.02
B317.1227	1,915	0.03	1,785	0.03	130	0.03
B318.1228	10,100	0.14	9,720	0.14	375	0.10
B411.1211	22,235	0.31	21,240	0.32	1,000	0.26
B412.1212	32,725	0.46	31,335	0.47	1,390	0.36
B413.1213	3,925	0.06	3,795	0.06	130	0.03
B414.1214	6,385	0.09	5,980	0.09	405	0.10
B415.1215	2,490	0.03	2,470	0.04	20	0.01
B511.1411	194,165	2.73	183,605	2.73	10,560	2.73
B512.1412	38,300	0.54	36,435	0.54	1,865	0.48
B513.1413	29,385	0.41	27,955	0.42	1,430	0.37

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
B514.1414	141,845	1.99	134,210	2.00	7,635	1.97
B521.1421	23,005	0.32	22,005	0.33	995	0.26
B522.1422	79,345	1.12	75,465	1.12	3,880	1.00
B523.1423	6,075	0.09	5,820	0.09	260	0.07
B524.1424	16,240	0.23	15,335	0.23	900	0.23
B531.1431	228,975	3.22	217,635	3.24	11,340	2.93
B532.1432	29,775	0.42	28,530	0.42	1,245	0.32
B533.1433	99,275	1.40	94,435	1.40	4,840	1.25
B534.1434	55,220	0.78	52,580	0.78	2,640	0.68
B535.1435	11,620	0.16	11,170	0.17	450	0.12
B541.1441	45,065	0.63	43,130	0.64	1,930	0.50
B542.1442	9,875	0.14	9,540	0.14	335	0.09
B543.1443	2,585	0.04	2,500	0.04	85	0.02
B551.1451	12,970	0.18	12,245	0.18	725	0.19
B552.1452	6,240	0.09	5,935	0.09	305	0.08
B553.1453	48,330	0.68	46,020	0.68	2,310	0.60
B554.1454	19,080	0.27	17,815	0.26	1,270	0.33
B561.1461	29,130	0.41	27,385	0.41	1,745	0.45
B562.1462	6,575	0.09	6,575	0.10	0	—
B563.1463	9,580	0.13	8,635	0.13	945	0.24
B571.1471	19,255	0.27	18,300	0.27	955	0.25
B572.1472	9,915	0.14	9,470	0.14	445	0.11
B573.1473	7,945	0.11	7,590	0.11	355	0.09
B574.1474	22,800	0.32	21,700	0.32	1,100	0.28
B575.1475	9,825	0.14	9,445	0.14	380	0.10
B576.1476	455	0.01	435	0.01	15	0.00
C011.2111	280	0.00	270	0.00	5	0.00
C012.2112	2,955	0.04	2,885	0.04	70	0.02
C013.2113	1,120	0.02	1,075	0.02	45	0.01
C014.2114	110	0.00	110	0.00	0	—
C015.2115	145	0.00	145	0.00	0	—
C021.2121	3,355	0.05	3,275	0.05	80	0.02
C022.2122	350	0.00	350	0.01	0	—
C023.2123	1,005	0.01	965	0.01	40	0.01
C031.2131	2,235	0.03	2,180	0.03	50	0.01
C032.2132	960	0.01	925	0.01	35	0.01
C033.2133	2,275	0.03	2,210	0.03	65	0.02
C034.2134	1,005	0.01	970	0.01	35	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C041.2141	1,055	0.01	1,045	0.02	15	0.00
C042.2142	145	0.00	145	0.00	0	---
C043.2143	105	0.00	105	0.00	0	---
C044.2144	145	0.00	135	0.00	5	0.00
C045.2145	415	0.01	415	0.01	0	0.00
C046.2146	195	0.00	195	0.00	0	---
C047.2147	1,135	0.02	1,090	0.02	50	0.01
C048.2148	310	0.00	305	0.00	5	0.00
C051.2151	1,795	0.03	1,770	0.03	25	0.01
C052.2152	460	0.01	455	0.01	5	0.00
C053.2153	2,535	0.04	2,490	0.04	45	0.01
C054.2154	410	0.01	405	0.01	5	0.00
C061.2161	2,700	0.04	2,630	0.04	75	0.02
C062.2162	23,745	0.33	23,015	0.34	730	0.19
C063.2163	16,620	0.23	16,060	0.24	560	0.14
C111.2211	11,515	0.16	11,080	0.16	430	0.11
C112.2212	1,800	0.03	1,715	0.03	85	0.02
C113.2213	225	0.00	210	0.00	20	0.01
C121.2221	3,965	0.06	3,820	0.06	145	0.04
C122.2222	1,535	0.02	1,465	0.02	75	0.02
C123.2223	1,575	0.02	1,495	0.02	80	0.02
C124.2224	860	0.01	845	0.01	10	0.00
C125.2225	1,855	0.03	1,785	0.03	75	0.02
C131.2230	1,685	0.02	1,630	0.02	55	0.01
C132.2232	410	0.01	395	0.01	15	0.00
C133.2233	2,030	0.03	1,955	0.03	75	0.02
C141.2241	3,345	0.05	3,150	0.05	195	0.05
C142.2242	4,350	0.06	4,225	0.06	125	0.03
C143.2243	200	0.00	200	0.00	0	---
C144.2244	300	0.00	295	0.00	5	0.00
C151.2251	1,080	0.02	1,030	0.02	45	0.01
C152.2252	625	0.01	620	0.01	5	0.00
C153.2253	8,930	0.13	8,650	0.13	280	0.07
C154.2254	605	0.01	585	0.01	20	0.01
C155.2255	1,425	0.02	1,380	0.02	45	0.01
C161.2261	245	0.00	245	0.00	0	---
C162.2262	445	0.01	415	0.01	30	0.01
C163.2263	2,460	0.03	2,375	0.04	85	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C164.2264	650	0.01	650	0.01	0	---
C171.2271	395	0.01	385	0.01	10	0.00
C172.2272	680	0.01	650	0.01	30	0.01
C173.2273	150	0.00	150	0.00	0	0.00
C174.2274	50	0.00	50	0.00	0	---
C175.2275	375	0.01	360	0.01	10	0.00
D011.3111	4,440	0.06	4,285	0.06	160	0.04
D012.3112	10,415	0.15	10,140	0.15	275	0.07
D013.3113	2,165	0.03	2,090	0.03	75	0.02
D014.3114	1,445	0.02	1,425	0.02	20	0.01
D021.3121	1,210	0.02	1,185	0.02	20	0.01
D022.3122	570	0.01	570	0.01	0	0.00
D023.3123	490	0.01	475	0.01	15	0.00
D031.3131	9,640	0.14	9,210	0.14	430	0.11
D032.3132	4,700	0.07	4,550	0.07	155	0.04
D041.3141	3,690	0.05	3,610	0.05	80	0.02
D042.3142	9,755	0.14	9,480	0.14	275	0.07
D043.3143	5,380	0.08	5,255	0.08	125	0.03
D044.3144	1,065	0.01	1,040	0.02	25	0.01
D111.3151	18,875	0.27	18,120	0.27	755	0.20
D112.3152	230,805	3.24	222,770	3.31	8,035	2.08
D211.3211	16,630	0.23	16,110	0.24	520	0.13
D212.3212	20,670	0.29	19,820	0.29	855	0.22
D213.3213	2,550	0.04	2,440	0.04	110	0.03
D214.3214	3,085	0.04	3,030	0.05	55	0.01
D215.3215	12,070	0.17	11,650	0.17	415	0.11
D216.3216	1,260	0.02	1,240	0.02	20	0.01
D217.3217	1,570	0.02	1,515	0.02	55	0.01
D218.3218	575	0.01	565	0.01	10	0.00
D219.3219	4,980	0.07	4,795	0.07	185	0.05
D221.3221	375	0.01	345	0.01	30	0.01
D222.3222	9,500	0.13	9,205	0.14	295	0.08
D223.3220	2,510	0.04	2,340	0.03	170	0.04
D231.3231	2,270	0.03	2,210	0.03	60	0.02
D232.3232	2,270	0.03	2,120	0.03	150	0.04
D233.3233	52,500	0.74	50,370	0.75	2,130	0.55
D234.3234	2,700	0.04	2,610	0.04	90	0.02
D235.3235	4,750	0.07	4,535	0.07	215	0.06

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
D311.3411	23,120	0.32	22,255	0.33	865	0.22
D312.3413	107,830	1.52	101,010	1.50	6,820	1.76
D313.3414	15,425	0.22	14,655	0.22	765	0.20
E011.4111	345	0.00	325	0.00	20	0.01
E012.4112	14,845	0.21	14,400	0.21	445	0.11
E021.4151	6,245	0.09	6,100	0.09	140	0.04
E022.4152	24,990	0.35	23,995	0.36	990	0.26
E023.4153	13,770	0.19	13,265	0.20	505	0.13
E024.4154	3,110	0.04	2,900	0.04	210	0.05
E025.4155	1,885	0.03	1,845	0.03	40	0.01
E031.4161	2,715	0.04	2,600	0.04	115	0.03
E032.4162	1,505	0.02	1,480	0.02	25	0.01
E033.4163	12,425	0.17	12,035	0.18	390	0.10
E034.4160	17,760	0.25	17,130	0.25	630	0.16
E035.4166	8,090	0.11	7,795	0.12	295	0.08
E036.4167	7,650	0.11	7,400	0.11	255	0.07
E037.4168	820	0.01	785	0.01	30	0.01
E038.4169	2,240	0.03	2,135	0.03	105	0.03
E111.4121	13,690	0.19	13,205	0.20	485	0.13
E112.4122	18,440	0.26	17,740	0.26	700	0.18
E121.4131	44,995	0.63	43,300	0.64	1,695	0.44
E131.4141	81,100	1.14	78,930	1.17	2,175	0.56
E132.4142	190,255	2.67	185,210	2.75	5,045	1.30
E133.4143	7,835	0.11	7,565	0.11	270	0.07
E211.4211	12,830	0.18	12,345	0.18	485	0.13
E212.4212	48,515	0.68	45,890	0.68	2,625	0.68
E213.4213	7,810	0.11	7,580	0.11	235	0.06
E214.4215	14,665	0.21	14,070	0.21	590	0.15
E215.4216	2,475	0.03	2,380	0.04	95	0.02
E217.4217	7,795	0.11	6,315	0.09	1,480	0.38
F011.5111	11,375	0.16	10,720	0.16	655	0.17
F012.5112	855	0.01	830	0.01	25	0.01
F013.5113	1,025	0.01	995	0.01	30	0.01
F021.5121	8,005	0.11	7,730	0.11	280	0.07
F022.5122	3,645	0.05	3,520	0.05	120	0.03
F023.5123	6,555	0.09	6,215	0.09	340	0.09
F024.5124	15,890	0.22	15,280	0.23	610	0.16
F025.5125	6,830	0.10	6,575	0.10	250	0.06

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
F031.5131	4,830	0.07	4,715	0.07	120	0.03
F032.5132	570	0.01	560	0.01	10	0.00
F033.5133	15,145	0.21	14,285	0.21	860	0.22
F034.5134	3,775	0.05	3,630	0.05	150	0.04
F035.5135	2,455	0.03	2,325	0.03	130	0.03
F036.5136	6,215	0.09	5,930	0.09	285	0.07
F111.5211	15,860	0.22	15,240	0.23	620	0.16
F112.5212	2,505	0.04	2,390	0.04	115	0.03
F121.5221	3,180	0.04	3,085	0.05	95	0.02
F122.5222	375	0.01	365	0.01	5	0.00
F123.5223	2,660	0.04	2,540	0.04	120	0.03
F124.5224	625	0.01	605	0.01	15	0.00
F125.5225	900	0.01	875	0.01	30	0.01
F126.5226	2,360	0.03	2,275	0.03	85	0.02
F127.5227	980	0.01	940	0.01	40	0.01
F131.5231	2,230	0.03	2,120	0.03	110	0.03
F132.5232	2,400	0.03	2,270	0.03	130	0.03
F141.5241	12,895	0.18	12,350	0.18	545	0.14
F142.5242	5,545	0.08	5,350	0.08	195	0.05
F143.5243	6,165	0.09	5,890	0.09	275	0.07
F144.5244	17,105	0.24	15,965	0.24	1,145	0.30
F145.5245	1,205	0.02	1,160	0.02	45	0.01
F151.5251	215	0.00	205	0.00	10	0.00
F152.5252	2,830	0.04	2,640	0.04	185	0.05
F153.5253	295	0.00	270	0.00	25	0.01
F154.5254	40,050	0.56	37,415	0.56	2,635	0.68
G011.6211	22,815	0.32	21,820	0.32	995	0.26
G012.6212	10,805	0.15	10,155	0.15	650	0.17
G013.6213	3,265	0.05	3,075	0.05	195	0.05
G014.6214	1,260	0.02	1,200	0.02	60	0.02
G015.6215	7,155	0.10	6,715	0.10	440	0.11
G016.6216	2,715	0.04	2,590	0.04	125	0.03
G111.6411	39,750	0.56	37,430	0.56	2,320	0.60
G121.6221	13,900	0.20	13,495	0.20	410	0.11
G131.6231	22,500	0.32	21,495	0.32	1,005	0.26
G132.6232	33,745	0.47	32,210	0.48	1,535	0.40
G133.6233	8,245	0.12	7,945	0.12	295	0.08
G134.6234	55	0.00	55	0.00	0	—

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census – 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G211.6421	430,030	6.04	403,065	5.99	26,960	6.96
G311.6611	254,255	3.57	237,225	3.53	17,030	4.40
G411.6241	4,010	0.06	3,750	0.06	265	0.07
G412.6242	105,545	1.48	97,255	1.45	8,290	2.14
G511.6451	18,445	0.26	17,190	0.26	1,255	0.32
G512.6452	27,690	0.39	26,265	0.39	1,425	0.37
G513.6453	213,795	3.01	199,580	2.97	14,220	3.67
G611.6261	5,755	0.08	5,505	0.08	250	0.06
G612.6262	310	0.00	300	0.00	10	0.00
G621.6461	635	0.01	610	0.01	20	0.01
G622.6462	3,965	0.06	3,675	0.05	285	0.07
G623.6463	1,295	0.02	1,220	0.02	70	0.02
G624.6464	10,080	0.14	9,400	0.14	680	0.18
G625.6465	2,525	0.04	2,435	0.04	90	0.02
G631.6651	17,045	0.24	15,610	0.23	1,435	0.37
G711.6431	18,460	0.26	17,645	0.26	815	0.21
G712.6432	8,020	0.11	7,770	0.12	250	0.06
G713.6433	6,220	0.09	6,220	0.09	0	---
G714.6434	3,640	0.05	3,135	0.05	505	0.13
G715.6435	11,405	0.16	10,725	0.16	680	0.18
G721.6441	5,725	0.08	5,360	0.08	365	0.09
G722.6442	535	0.01	510	0.01	25	0.01
G731.6670	8,185	0.12	7,535	0.11	650	0.17
G732.6672	445	0.01	425	0.01	20	0.01
G811.6471	69,370	0.98	64,015	0.95	5,350	1.38
G812.6472	49,595	0.70	46,785	0.70	2,810	0.73
G813.6470	79,960	1.12	75,820	1.13	4,135	1.07
G814.6474	103,210	1.45	95,800	1.42	7,405	1.91
G911.6271	71,670	1.01	68,555	1.02	3,115	0.80
G912.6272	520	0.01	490	0.01	25	0.01
G921.6481	3,670	0.05	3,490	0.05	180	0.05
G922.6482	12,960	0.18	12,305	0.18	650	0.17
G923.6483	7,680	0.11	7,175	0.11	505	0.13
G924.6484	250	0.00	250	0.00	0	---
G931.6661	141,385	1.99	129,775	1.93	11,605	3.00
G932.6662	4,755	0.07	4,530	0.07	230	0.06
G933.6663	65,650	0.92	60,180	0.89	5,475	1.41
G941.6251	8,720	0.12	8,245	0.12	470	0.12

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G942.6252	21,055	0.30	19,850	0.30	1,210	0.31
G951.6631	8,665	0.12	8,080	0.12	580	0.15
G961.6641	99,870	1.40	91,945	1.37	7,920	2.05
G962.6642	81,895	1.15	75,140	1.12	6,755	1.74
G971.6621	11,635	0.16	10,875	0.16	760	0.20
G972.6622	35,960	0.51	33,615	0.50	2,345	0.61
G973.6623	30,020	0.42	28,030	0.42	1,990	0.51
G981.6681	22,345	0.31	20,375	0.30	1,970	0.51
G982.6682	7,710	0.11	7,185	0.11	525	0.14
G983.6683	7,605	0.11	7,120	0.11	485	0.13
H011.7211	145	0.00	140	0.00	5	0.00
H012.7212	530	0.01	500	0.01	25	0.01
H013.7213	110	0.00	110	0.00	0	---
H014.7214	250	0.00	250	0.00	0	---
H015.7215	335	0.00	325	0.00	15	0.00
H016.7216	825	0.01	815	0.01	15	0.00
H017.7217	350	0.00	340	0.01	10	0.00
H018.7218	2,090	0.03	1,990	0.03	100	0.03
H019.7219	1,675	0.02	1,635	0.02	40	0.01
H021.7221	70	0.00	70	0.00	0	---
H022.7222	1,995	0.03	1,920	0.03	75	0.02
H111.7251	260	0.00	245	0.00	15	0.00
H112.7252	205	0.00	205	0.00	0	---
H113.7253	85	0.00	80	0.00	5	0.00
H121.7271	1,900	0.03	1,850	0.03	50	0.01
H122.7272	1,090	0.02	1,030	0.02	65	0.02
H131.7281	200	0.00	185	0.00	10	0.00
H132.7282	140	0.00	140	0.00	0	---
H133.7283	160	0.00	160	0.00	0	---
H134.7284	450	0.01	440	0.01	10	0.00
H141.7291	275	0.00	245	0.00	35	0.01
H142.7292	505	0.01	480	0.01	25	0.01
H143.7293	330	0.00	320	0.00	10	0.00
H144.7294	4,190	0.06	3,970	0.06	220	0.06
H145.7295	315	0.00	300	0.00	15	0.00
H211.7241	830	0.01	810	0.01	20	0.01
H212.7242	260	0.00	260	0.00	0	---
H213.7243	190	0.00	190	0.00	0	---

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H214.7244	255	0.00	245	0.00	10	0.00
H215.7245	570	0.01	545	0.01	25	0.01
H216.7246	3,020	0.04	2,870	0.04	150	0.04
H217.7247	145	0.00	145	0.00	0	0.00
H221.7351	405	0.01	405	0.01	0	---
H222.7352	275	0.00	275	0.00	0	---
H311.7231	2,445	0.03	2,310	0.03	135	0.03
H312.7232	770	0.01	740	0.01	30	0.01
H321.7261	520	0.01	500	0.01	20	0.01
H322.7262	70	0.00	70	0.00	0	---
H323.7263	240	0.00	240	0.00	0	---
H324.7264	130	0.00	130	0.00	0	---
H326.7266	35	0.00	35	0.00	0	---
H411.7311	830	0.01	830	0.01	0	---
H412.7312	350	0.00	350	0.01	0	---
H413.7313	125	0.00	125	0.00	0	---
H414.7314	40	0.00	35	0.00	0	0.00
H415.7315	580	0.01	540	0.01	40	0.01
H416.7316	250	0.00	250	0.00	0	---
H417.7317	140	0.00	140	0.00	0	---
H418.7318	30	0.00	30	0.00	0	---
H421.7321	1,540	0.02	1,455	0.02	85	0.02
H422.7322	825	0.01	780	0.01	45	0.01
H431.7331	95	0.00	95	0.00	0	---
H432.7332	280	0.00	265	0.00	15	0.00
H433.7333	305	0.00	295	0.00	5	0.00
H434.7334	15	0.00	15	0.00	0	---
H435.7335	90	0.00	90	0.00	0	---
H511.7341	2,510	0.04	2,395	0.04	115	0.03
H512.7342	35,945	0.51	33,240	0.49	2,705	0.70
H513.7343	1,870	0.03	1,725	0.03	150	0.04
H514.7344	1,430	0.02	1,355	0.02	75	0.02
H522.7382	105	0.00	105	0.00	5	0.00
H523.7383	335	0.00	330	0.00	5	0.00
H531.7441	1,170	0.02	1,125	0.02	45	0.01
H532.7442	240	0.00	240	0.00	0	---
H533.7443	365	0.01	365	0.01	0	---
H534.7444	170	0.00	150	0.00	20	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H535.7445	745	0.01	725	0.01	20	0.01
H611.7421	1,390	0.02	1,325	0.02	65	0.02
H612.7422	340	0.00	330	0.00	10	0.00
H621.7371	190	0.00	185	0.00	0	0.00
H622.7372	65	0.00	65	0.00	0	---
H623.7373	50	0.00	50	0.00	0	---
H711.7411	4,715	0.07	4,460	0.07	250	0.06
H712.7412	24,790	0.35	23,150	0.34	1,640	0.42
H713.7413	2,415	0.03	2,250	0.03	165	0.04
H714.7414	7,580	0.11	7,155	0.11	425	0.11
H721.7361	90	0.00	85	0.00	5	0.00
H722.7362	240	0.00	220	0.00	25	0.01
H731.7431	110	0.00	110	0.00	0	---
H732.7432	70	0.00	70	0.00	0	0.00
H733.7433	275	0.00	260	0.00	10	0.00
H734.7434	15	0.00	15	0.00	0	---
H735.7435	280	0.00	260	0.00	15	0.00
H736.7436	30	0.00	30	0.00	0	---
H737.7437	565	0.01	515	0.01	50	0.01
H811.7451	495	0.01	480	0.01	15	0.00
H812.7452	14,765	0.21	13,990	0.21	775	0.20
H821.7611	10,885	0.15	10,260	0.15	625	0.16
H822.7612	3,475	0.05	3,345	0.05	130	0.03
H831.7621	7,940	0.11	7,170	0.11	775	0.20
H832.7622	455	0.01	455	0.01	0	---
I011.8251	61,695	0.87	55,785	0.83	5,910	1.53
I012.8252	130	0.00	120	0.00	10	0.00
I013.8253	3,065	0.04	2,910	0.04	150	0.04
I014.8254	2,590	0.04	2,355	0.04	235	0.06
I015.8255	875	0.01	815	0.01	60	0.02
I016.8256	1,290	0.02	1,230	0.02	55	0.01
I017.8257	345	0.00	325	0.00	20	0.01
I021.8431	66,750	0.94	60,255	0.90	6,495	1.68
I022.8432	14,625	0.21	13,580	0.20	1,040	0.27
I111.8211	510	0.01	500	0.01	10	0.00
I121.8221	95	0.00	95	0.00	0	---
I122.8222	85	0.00	85	0.00	0	---
I131.8231	335	0.00	310	0.00	30	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
I132.8232	105	0.00	105	0.00	0	---
I141.8411	80	0.00	80	0.00	0	---
I142.8412	95	0.00	95	0.00	0	---
I151.8241	185	0.00	175	0.00	10	0.00
I161.8421	395	0.01	390	0.01	5	0.00
I162.8422	1,605	0.02	1,470	0.02	135	0.03
I171.8261	165	0.00	155	0.00	15	0.00
I172.8262	3,925	0.06	3,760	0.06	165	0.04
I181.8441	2,045	0.03	1,955	0.03	95	0.02
I182.8442	295	0.00	250	0.00	40	0.01
I211.8611	9,120	0.13	8,380	0.12	740	0.19
I212.8612	11,650	0.16	10,910	0.16	740	0.19
I213.8613	1,025	0.01	975	0.01	50	0.01
I214.8614	625	0.01	625	0.01	5	0.00
I215.8615	370	0.01	355	0.01	15	0.00
I216.8616	5,630	0.08	5,265	0.08	365	0.09
J011.9211	405	0.01	395	0.01	15	0.00
J012.9212	785	0.01	770	0.01	15	0.00
J013.9213	2,435	0.03	2,280	0.03	155	0.04
J014.9214	755	0.01	715	0.01	40	0.01
J015.9215	395	0.01	385	0.01	15	0.00
J016.9216	1,160	0.02	1,125	0.02	35	0.01
J021.9221	370	0.01	365	0.01	5	0.00
J022.9222	685	0.01	665	0.01	20	0.01
J023.9223	305	0.00	300	0.00	10	0.00
J024.9224	330	0.00	325	0.00	10	0.00
J025.9225	2,330	0.03	2,170	0.03	160	0.04
J026.9226	200	0.00	200	0.00	0	---
J027.9227	740	0.01	710	0.01	30	0.01
J112.9232	1,115	0.02	1,030	0.02	80	0.02
J113.9233	75	0.00	75	0.00	0	---
J114.9234	480	0.01	455	0.01	30	0.01
J120.9410	730	0.01	730	0.01	5	0.00
J122.9412	825	0.01	785	0.01	40	0.01
J123.9413	1,360	0.02	1,280	0.02	75	0.02
J124.9414	490	0.01	480	0.01	10	0.00
J125.9415	705	0.01	690	0.01	15	0.00
J131.9421	1,965	0.03	1,890	0.03	75	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J132.9422	4,710	0.07	4,385	0.07	325	0.08
J133.9423	1,980	0.03	1,845	0.03	135	0.03
J134.9424	260	0.00	250	0.00	15	0.00
J141.9431	570	0.01	500	0.01	65	0.02
J142.9432	275	0.00	270	0.00	10	0.00
J143.9433	360	0.01	355	0.01	0	0.00
J144.9434	770	0.01	760	0.01	10	0.00
J145.9435	2,385	0.03	2,290	0.03	95	0.02
J146.9436	620	0.01	600	0.01	20	0.01
J151.9441	2,365	0.03	2,215	0.03	150	0.04
J152.9442	5,125	0.07	4,815	0.07	310	0.08
J153.9443	2,510	0.04	2,370	0.04	140	0.04
J154.9444	3,410	0.05	3,210	0.05	200	0.05
J161.9451	75,910	1.07	70,420	1.05	5,490	1.42
J162.9452	3,595	0.05	3,380	0.05	215	0.06
J163.9453	325	0.00	310	0.00	15	0.00
J164.9454	3,250	0.05	3,055	0.05	195	0.05
J171.9461	13,105	0.18	12,160	0.18	950	0.25
J172.9462	5,315	0.07	4,955	0.07	360	0.09
J173.9463	22,035	0.31	21,025	0.31	1,010	0.26
J174.9464	820	0.01	770	0.01	55	0.01
J175.9465	2,880	0.04	2,685	0.04	190	0.05
J180.9470	7,565	0.11	7,085	0.11	470	0.12
J182.9472	1,770	0.02	1,700	0.03	70	0.02
J183.9473	6,450	0.09	6,120	0.09	330	0.09
J184.9474	6,875	0.10	6,385	0.09	485	0.13
J191.9511	1,745	0.02	1,650	0.02	90	0.02
J192.9512	175	0.00	175	0.00	0	---
J193.9513	1,410	0.02	1,375	0.02	40	0.01
J194.9514	3,335	0.05	3,150	0.05	185	0.05
J195.9510	2,930	0.04	2,835	0.04	100	0.03
J196.9516	960	0.01	920	0.01	40	0.01
J197.9517	2,185	0.03	2,105	0.03	85	0.02
J211.9481	1,130	0.02	1,065	0.02	65	0.02
J212.9482	15,535	0.22	14,530	0.22	1,010	0.26
J213.9483	15,945	0.22	14,825	0.22	1,120	0.29
J214.9484	5,950	0.08	5,685	0.08	260	0.07
J215.9485	1,450	0.02	1,370	0.02	80	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Females)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J216.9486	1,650	0.02	1,590	0.02	60	0.02
J217.9487	925	0.01	890	0.01	35	0.01
J221.9491	325	0.00	305	0.00	20	0.01
J222.9492	3,900	0.05	3,700	0.06	205	0.05
J223.9493	1,365	0.02	1,285	0.02	80	0.02
J224.9494	1,285	0.02	1,225	0.02	60	0.02
J225.9495	5,275	0.07	4,950	0.07	325	0.08
J226.9496	1,805	0.03	1,735	0.03	70	0.02
J227.9497	200	0.00	200	0.00	0	---
J228.9498	5,160	0.07	4,920	0.07	245	0.06
J311.9611	2,305	0.03	2,175	0.03	135	0.03
J312.9612	9,800	0.14	8,950	0.13	850	0.22
J313.9613	5,815	0.08	5,430	0.08	380	0.10
J314.9614	7,765	0.11	7,230	0.11	535	0.14
J315.9615	5,475	0.08	5,195	0.08	280	0.07
J316.9616	4,610	0.06	4,150	0.06	460	0.12
J317.9617	26,760	0.38	25,325	0.38	1,440	0.37
J318.9618	7,085	0.10	7,000	0.10	85	0.02
J319.9619	34,610	0.49	31,010	0.46	3,595	0.93

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
Total - All Occupations	8,394,855	100.00	7,992,320	100.00	402,530	100.00
A011.0011	3,545	0.04	3,290	0.04	255	0.06
A012.0012	15,020	0.18	14,490	0.18	530	0.13
A013.0013	21,365	0.25	20,735	0.26	630	0.16
A014.0014	5,810	0.07	5,450	0.07	360	0.09
A015.0015	30,895	0.37	29,495	0.37	1,400	0.35
A016.0016	43,490	0.52	41,265	0.52	2,225	0.55
A111.0111	42,350	0.50	40,825	0.51	1,525	0.38
A112.0112	16,850	0.20	16,290	0.20	565	0.14
A113.0113	8,090	0.10	7,845	0.10	245	0.06
A114.0114	15,665	0.19	15,155	0.19	515	0.13
A121.0210	23,030	0.27	22,290	0.28	740	0.18
A122.0213	20,950	0.25	20,380	0.25	575	0.14
A131.0611	76,355	0.91	73,500	0.92	2,855	0.71
A141.0720	30,480	0.36	29,150	0.36	1,330	0.33
A211.0621	228,780	2.73	219,630	2.75	9,145	2.27
A221.0631	60,980	0.73	57,975	0.73	3,005	0.75
A222.0632	14,870	0.18	13,940	0.17	925	0.23
A301.0121	21,915	0.26	21,110	0.26	805	0.20
A302.0122	29,835	0.36	28,985	0.36	845	0.21
A303.0123	7,960	0.09	7,640	0.10	320	0.08
A311.0131	9,630	0.11	9,300	0.12	330	0.08
A312.0132	3,150	0.04	3,080	0.04	70	0.02
A321.0311	5,745	0.07	5,595	0.07	150	0.04
A322.0312	4,225	0.05	4,105	0.05	120	0.03
A323.0313	21,145	0.25	20,650	0.26	495	0.12
A324.0314	5,920	0.07	5,710	0.07	210	0.05
A331.0411	3,200	0.04	3,130	0.04	65	0.02
A332.0412	3,290	0.04	3,180	0.04	110	0.03
A333.0413	1,110	0.01	1,085	0.01	20	0.00
A334.0414	3,385	0.04	3,300	0.04	85	0.02
A341.0511	1,410	0.02	1,375	0.02	35	0.01
A342.0512	8,025	0.10	7,695	0.10	330	0.08
A343.0513	4,925	0.06	4,760	0.06	165	0.04
A351.0641	2,970	0.04	2,865	0.04	105	0.03
A352.0642	1,525	0.02	1,440	0.02	85	0.02
A353.0643	17,690	0.21	17,010	0.21	680	0.17
A361.0651	23,370	0.28	22,460	0.28	910	0.23

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
A371.0711	46,055	0.55	44,130	0.55	1,920	0.48
A372.0712	28,165	0.34	26,800	0.34	1,365	0.34
A373.0713	18,005	0.21	17,395	0.22	615	0.15
A381.0811	9,960	0.12	9,495	0.12	465	0.12
A391.0911	61,605	0.73	59,050	0.74	2,555	0.63
A392.0912	9,215	0.11	8,855	0.11	360	0.09
B011.1111	65,795	0.78	63,610	0.80	2,185	0.54
B012.1112	8,910	0.11	8,630	0.11	275	0.07
B013.1113	11,190	0.13	10,735	0.13	460	0.11
B014.1114	15,135	0.18	14,665	0.18	470	0.12
B021.1121	12,965	0.15	12,490	0.16	475	0.12
B022.1122	15,210	0.18	14,740	0.18	470	0.12
B111.1231	9,175	0.11	8,830	0.11	345	0.09
B112.1232	8,575	0.10	8,275	0.10	300	0.07
B113.1233	10,440	0.12	9,995	0.13	445	0.11
B114.1234	4,105	0.05	3,875	0.05	225	0.06
B115.1235	8,340	0.10	8,095	0.10	245	0.06
B116.1236	1,685	0.02	1,640	0.02	45	0.01
B211.1241	6,580	0.08	6,325	0.08	255	0.06
B212.1242	535	0.01	520	0.01	15	0.00
B213.1243	560	0.01	540	0.01	20	0.00
B214.1244	430	0.01	420	0.01	10	0.00
B311.1221	26,835	0.32	25,735	0.32	1,105	0.27
B312.1222	2,105	0.03	2,045	0.03	60	0.01
B313.1223	2,530	0.03	2,490	0.03	40	0.01
B314.1224	9,175	0.11	8,645	0.11	530	0.13
B315.1225	12,350	0.15	11,975	0.15	375	0.09
B316.1226	1,815	0.02	1,760	0.02	55	0.01
B317.1227	1,585	0.02	1,485	0.02	95	0.02
B318.1228	9,650	0.11	9,265	0.12	385	0.10
B411.1211	10,105	0.12	9,730	0.12	380	0.09
B412.1212	10,055	0.12	9,670	0.12	385	0.10
B413.1213	2,050	0.02	2,010	0.03	40	0.01
B414.1214	9,695	0.12	9,275	0.12	420	0.10
B415.1215	14,315	0.17	13,920	0.17	395	0.10
B511.1411	43,955	0.52	41,475	0.52	2,480	0.62
B512.1412	1,740	0.02	1,660	0.02	80	0.02
B513.1413	6,080	0.07	5,745	0.07	335	0.08

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
B514.1414	5,605	0.07	5,400	0.07	205	0.05
B521.1421	16,945	0.20	16,145	0.20	800	0.20
B522.1422	14,220	0.17	13,505	0.17	715	0.18
B523.1423	3,225	0.04	3,095	0.04	125	0.03
B524.1424	1,915	0.02	1,840	0.02	70	0.02
B531.1431	49,125	0.59	47,060	0.59	2,065	0.51
B532.1432	3,985	0.05	3,825	0.05	160	0.04
B533.1433	9,555	0.11	9,085	0.11	470	0.12
B534.1434	9,790	0.12	9,350	0.12	435	0.11
B535.1435	5,140	0.06	4,965	0.06	170	0.04
B541.1441	10,815	0.13	10,400	0.13	415	0.10
B542.1442	2,465	0.03	2,390	0.03	80	0.02
B543.1443	790	0.01	735	0.01	55	0.01
B551.1451	2,800	0.03	2,555	0.03	245	0.06
B552.1452	2,170	0.03	2,060	0.03	110	0.03
B553.1453	19,465	0.23	18,605	0.23	860	0.21
B554.1454	7,705	0.09	7,280	0.09	430	0.11
B561.1461	21,415	0.26	20,475	0.26	940	0.23
B562.1462	18,470	0.22	18,470	0.23	0	---
B563.1463	36,080	0.43	32,505	0.41	3,575	0.89
B571.1471	86,760	1.03	82,090	1.03	4,670	1.16
B572.1472	38,550	0.46	36,530	0.46	2,025	0.50
B573.1473	9,910	0.12	9,475	0.12	435	0.11
B574.1474	25,130	0.30	23,920	0.30	1,210	0.30
B575.1475	11,205	0.13	10,710	0.13	495	0.12
B576.1476	950	0.01	920	0.01	25	0.01
C011.2111	1,795	0.02	1,770	0.02	25	0.01
C012.2112	7,430	0.09	7,120	0.09	310	0.08
C013.2113	7,865	0.09	7,640	0.10	230	0.06
C014.2114	860	0.01	820	0.01	35	0.01
C015.2115	1,355	0.02	1,320	0.02	35	0.01
C021.2121	5,690	0.07	5,535	0.07	155	0.04
C022.2122	3,785	0.05	3,700	0.05	90	0.02
C023.2123	3,890	0.05	3,765	0.05	125	0.03
C031.2131	34,445	0.41	33,250	0.42	1,195	0.30
C032.2132	24,985	0.30	24,105	0.30	880	0.22
C033.2133	31,905	0.38	30,840	0.39	1,070	0.27
C034.2134	7,290	0.09	7,140	0.09	155	0.04

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C041.2141	10,450	0.12	10,120	0.13	330	0.08
C042.2142	1,955	0.02	1,920	0.02	35	0.01
C043.2143	2,720	0.03	2,615	0.03	105	0.03
C044.2144	1,375	0.02	1,340	0.02	35	0.01
C045.2145	4,760	0.06	4,600	0.06	160	0.04
C046.2146	3,555	0.04	3,445	0.04	115	0.03
C047.2147	8,440	0.10	8,200	0.10	245	0.06
C048.2148	4,625	0.06	4,400	0.06	225	0.06
C051.2151	7,770	0.09	7,555	0.09	210	0.05
C052.2152	1,735	0.02	1,695	0.02	40	0.01
C053.2153	6,285	0.07	6,105	0.08	180	0.04
C054.2154	8,055	0.10	7,825	0.10	230	0.06
C061.2161	4,060	0.05	3,915	0.05	145	0.04
C062.2162	55,090	0.66	53,265	0.67	1,825	0.45
C063.2163	42,175	0.50	40,745	0.51	1,430	0.36
C111.2211	17,975	0.21	17,335	0.22	640	0.16
C112.2212	9,670	0.12	9,215	0.12	455	0.11
C113.2213	1,135	0.01	1,090	0.01	45	0.01
C121.2221	5,340	0.06	5,120	0.06	220	0.05
C122.2222	4,085	0.05	3,925	0.05	160	0.04
C123.2223	8,480	0.10	8,095	0.10	385	0.10
C124.2224	6,305	0.08	6,040	0.08	265	0.07
C125.2225	5,225	0.06	4,985	0.06	240	0.06
C131.2230	19,760	0.24	19,010	0.24	750	0.19
C132.2232	9,325	0.11	8,935	0.11	390	0.10
C133.2233	8,165	0.10	7,950	0.10	215	0.05
C141.2241	25,205	0.30	24,300	0.30	905	0.22
C142.2242	55,485	0.66	53,470	0.67	2,015	0.50
C143.2243	6,675	0.08	6,545	0.08	130	0.03
C144.2244	5,245	0.06	4,945	0.06	300	0.07
C151.2251	3,820	0.05	3,685	0.05	135	0.03
C152.2252	2,985	0.04	2,880	0.04	100	0.02
C153.2253	31,240	0.37	29,990	0.38	1,250	0.31
C154.2254	5,395	0.06	5,165	0.06	225	0.06
C155.2255	3,145	0.04	2,990	0.04	155	0.04
C161.2261	2,970	0.04	2,910	0.04	60	0.01
C162.2262	3,790	0.05	3,620	0.05	175	0.04
C163.2263	9,815	0.12	9,490	0.12	330	0.08

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
C164.2264	8,990	0.11	8,580	0.11	410	0.10
C171.2271	11,185	0.13	10,810	0.14	375	0.09
C172.2272	3,765	0.04	3,630	0.05	140	0.03
C173.2273	4,865	0.06	4,670	0.06	195	0.05
C174.2274	3,065	0.04	3,000	0.04	70	0.02
C175.2275	2,635	0.03	2,530	0.03	105	0.03
D011.3111	14,405	0.17	14,135	0.18	270	0.07
D012.3112	28,120	0.33	27,475	0.34	645	0.16
D013.3113	11,540	0.14	11,300	0.14	245	0.06
D014.3114	3,110	0.04	3,070	0.04	45	0.01
D021.3121	1,980	0.02	1,950	0.02	30	0.01
D022.3122	2,940	0.04	2,900	0.04	40	0.01
D023.3123	325	0.00	315	0.00	10	0.00
D031.3131	8,875	0.11	8,530	0.11	340	0.08
D032.3132	235	0.00	235	0.00	0	---
D041.3141	305	0.00	300	0.00	10	0.00
D042.3142	1,775	0.02	1,725	0.02	50	0.01
D043.3143	615	0.01	610	0.01	5	0.00
D044.3144	380	0.00	360	0.00	20	0.00
D111.3151	1,315	0.02	1,285	0.02	30	0.01
D112.3152	11,510	0.14	11,190	0.14	315	0.08
D211.3211	4,080	0.05	3,960	0.05	120	0.03
D212.3212	4,580	0.05	4,480	0.06	100	0.02
D213.3213	870	0.01	845	0.01	25	0.01
D214.3214	1,610	0.02	1,565	0.02	45	0.01
D215.3215	3,090	0.04	3,025	0.04	65	0.02
D216.3216	220	0.00	220	0.00	0	---
D217.3217	155	0.00	140	0.00	15	0.00
D218.3218	300	0.00	300	0.00	0	0.00
D219.3219	1,275	0.02	1,225	0.02	50	0.01
D221.3221	1,530	0.02	1,470	0.02	65	0.02
D222.3222	420	0.01	400	0.01	15	0.00
D223.3220	3,750	0.04	3,640	0.05	110	0.03
D231.3231	1,800	0.02	1,750	0.02	50	0.01
D232.3232	1,455	0.02	1,380	0.02	75	0.02
D233.3233	4,385	0.05	4,200	0.05	185	0.05
D234.3234	10,005	0.12	9,640	0.12	365	0.09
D235.3235	1,550	0.02	1,510	0.02	45	0.01

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
D311.3411	470	0.01	440	0.01	35	0.01
D312.3413	21,835	0.26	20,945	0.26	890	0.22
D313.3414	3,760	0.04	3,610	0.05	150	0.04
E011.4111	2,070	0.02	1,945	0.02	125	0.03
E012.4112	39,590	0.47	38,605	0.48	990	0.25
E021.4151	4,195	0.05	4,115	0.05	80	0.02
E022.4152	8,595	0.10	8,380	0.10	215	0.05
E023.4153	5,755	0.07	5,575	0.07	180	0.04
E024.4154	22,780	0.27	21,745	0.27	1,035	0.26
E025.4155	1,890	0.02	1,820	0.02	70	0.02
E031.4161	6,805	0.08	6,590	0.08	215	0.05
E032.4162	4,130	0.05	4,030	0.05	100	0.02
E033.4163	15,370	0.18	14,975	0.19	400	0.10
E034.4160	13,430	0.16	13,035	0.16	400	0.10
E035.4166	5,645	0.07	5,435	0.07	210	0.05
E036.4167	4,610	0.05	4,460	0.06	150	0.04
E037.4168	1,315	0.02	1,260	0.02	50	0.01
E038.4169	1,725	0.02	1,675	0.02	50	0.01
E111.4121	32,680	0.39	31,835	0.40	845	0.21
E112.4122	21,885	0.26	21,015	0.26	870	0.22
E121.4131	44,465	0.53	42,925	0.54	1,540	0.38
E131.4141	85,390	1.02	83,770	1.05	1,615	0.40
E132.4142	41,205	0.49	40,515	0.51	690	0.17
E133.4143	5,280	0.06	5,160	0.06	120	0.03
E211.4211	4,145	0.05	3,965	0.05	180	0.04
E212.4212	18,400	0.22	17,495	0.22	905	0.22
E213.4213	4,195	0.05	4,080	0.05	115	0.03
E214.4215	4,265	0.05	4,085	0.05	180	0.04
E215.4216	4,215	0.05	4,065	0.05	150	0.04
E217.4217	5,320	0.06	4,845	0.06	475	0.12
F011.5111	2,395	0.03	2,345	0.03	55	0.01
F012.5112	625	0.01	620	0.01	5	0.00
F013.5113	610	0.01	590	0.01	20	0.00
F021.5121	8,500	0.10	8,215	0.10	285	0.07
F022.5122	3,435	0.04	3,320	0.04	115	0.03
F023.5123	7,710	0.09	7,365	0.09	345	0.09
F024.5124	9,485	0.11	9,160	0.11	325	0.08
F025.5125	3,630	0.04	3,500	0.04	130	0.03

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
F031.5131	8,580	0.10	8,295	0.10	285	0.07
F032.5132	1,415	0.02	1,375	0.02	40	0.01
F033.5133	12,835	0.15	12,210	0.15	630	0.16
F034.5134	660	0.01	625	0.01	35	0.01
F035.5135	3,070	0.04	2,875	0.04	195	0.05
F036.5136	6,460	0.08	6,230	0.08	230	0.06
F111.5211	2,380	0.03	2,285	0.03	95	0.02
F112.5212	1,875	0.02	1,820	0.02	55	0.01
F121.5221	7,930	0.09	7,620	0.10	310	0.08
F122.5222	2,725	0.03	2,650	0.03	75	0.02
F123.5223	4,715	0.06	4,580	0.06	140	0.03
F124.5224	2,835	0.03	2,720	0.03	110	0.03
F125.5225	5,065	0.06	4,850	0.06	215	0.05
F126.5226	3,805	0.05	3,645	0.05	160	0.04
F127.5227	2,610	0.03	2,505	0.03	105	0.03
F131.5231	7,560	0.09	7,265	0.09	300	0.07
F132.5232	1,100	0.01	1,035	0.01	65	0.02
F141.5241	17,140	0.20	16,465	0.21	680	0.17
F142.5242	2,555	0.03	2,485	0.03	70	0.02
F143.5243	3,600	0.04	3,495	0.04	105	0.03
F144.5244	7,115	0.08	6,735	0.08	380	0.09
F145.5245	530	0.01	520	0.01	5	0.00
F151.5251	1,835	0.02	1,775	0.02	60	0.01
F152.5252	2,715	0.03	2,595	0.03	125	0.03
F153.5253	2,355	0.03	2,180	0.03	175	0.04
F154.5254	23,175	0.28	21,440	0.27	1,740	0.43
G011.6211	19,750	0.24	18,980	0.24	770	0.19
G012.6212	5,490	0.07	5,140	0.06	350	0.09
G013.6213	1,050	0.01	1,020	0.01	30	0.01
G014.6214	1,005	0.01	950	0.01	50	0.01
G015.6215	14,565	0.17	13,865	0.17	700	0.17
G016.6216	3,920	0.05	3,760	0.05	160	0.04
G111.6411	111,615	1.33	106,410	1.33	5,205	1.29
G121.6221	48,885	0.58	47,325	0.59	1,560	0.39
G131.6231	33,600	0.40	32,125	0.40	1,475	0.37
G132.6232	44,425	0.53	42,465	0.53	1,960	0.49
G133.6233	13,105	0.16	12,660	0.16	445	0.11
G134.6234	2,455	0.03	2,345	0.03	115	0.03

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G211.6421	249,800	2.98	236,355	2.96	13,450	3.34
G311.6611	32,770	0.39	30,290	0.38	2,480	0.62
G411.6241	16,895	0.20	16,030	0.20	865	0.21
G412.6242	100,160	1.19	93,150	1.17	7,015	1.74
G511.6451	2,475	0.03	2,300	0.03	175	0.04
G512.6452	19,090	0.23	18,160	0.23	930	0.23
G513.6453	47,105	0.56	44,410	0.56	2,700	0.67
G611.6261	55,145	0.66	53,585	0.67	1,560	0.39
G612.6262	25,730	0.31	24,615	0.31	1,115	0.28
G621.6461	1,920	0.02	1,815	0.02	105	0.03
G622.6462	14,425	0.17	13,870	0.17	555	0.14
G623.6463	4,810	0.06	4,575	0.06	235	0.06
G624.6464	58,225	0.69	55,280	0.69	2,945	0.73
G625.6465	6,960	0.08	6,685	0.08	275	0.07
G631.6651	74,460	0.89	69,645	0.87	4,810	1.19
G711.6431	3,780	0.05	3,660	0.05	120	0.03
G712.6432	2,540	0.03	2,440	0.03	95	0.02
G713.6433	4,070	0.05	4,070	0.05	5	0.00
G714.6434	2,775	0.03	2,485	0.03	285	0.07
G715.6435	4,715	0.06	4,420	0.06	295	0.07
G721.6441	3,315	0.04	3,100	0.04	215	0.05
G722.6442	3,575	0.04	3,260	0.04	315	0.08
G731.6670	17,235	0.21	15,840	0.20	1,395	0.35
G732.6672	3,430	0.04	3,250	0.04	180	0.04
G811.6471	4,505	0.05	4,240	0.05	265	0.07
G812.6472	4,725	0.06	4,410	0.06	315	0.08
G813.6470	3,130	0.04	2,970	0.04	160	0.04
G814.6474	3,120	0.04	2,860	0.04	255	0.06
G911.6271	15,840	0.19	15,040	0.19	800	0.20
G912.6272	2,715	0.03	2,650	0.03	65	0.02
G921.6481	320	0.00	320	0.00	0	---
G922.6482	450	0.01	430	0.01	20	0.00
G923.6483	2,880	0.03	2,665	0.03	215	0.05
G924.6484	55	0.00	55	0.00	0	---
G931.6661	56,585	0.67	52,515	0.66	4,070	1.01
G932.6662	30,570	0.36	28,595	0.36	1,975	0.49
G933.6663	173,925	2.07	161,660	2.02	12,265	3.05
G941.6251	25,545	0.30	24,150	0.30	1,395	0.35

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
G942.6252	20,730	0.25	19,490	0.24	1,235	0.31
G951.6631	2,175	0.03	2,010	0.03	170	0.04
G961.6641	38,670	0.46	35,235	0.44	3,435	0.85
G962.6642	76,555	0.91	69,290	0.87	7,265	1.80
G971.6621	51,550	0.61	47,700	0.60	3,850	0.96
G972.6622	83,220	0.99	77,565	0.97	5,655	1.40
G973.6623	17,130	0.20	16,225	0.20	905	0.22
G981.6681	7,385	0.09	6,975	0.09	410	0.10
G982.6682	3,235	0.04	3,050	0.04	185	0.05
G983.6683	18,500	0.22	17,125	0.21	1,370	0.34
H011.7211	6,110	0.07	5,825	0.07	285	0.07
H012.7212	21,620	0.26	20,805	0.26	815	0.20
H013.7213	8,625	0.10	8,350	0.10	275	0.07
H014.7214	13,600	0.16	12,995	0.16	605	0.15
H015.7215	26,790	0.32	25,610	0.32	1,180	0.29
H016.7216	34,755	0.41	33,280	0.42	1,475	0.37
H017.7217	24,630	0.29	23,500	0.29	1,135	0.28
H018.7218	7,230	0.09	6,940	0.09	290	0.07
H019.7219	50,330	0.60	47,960	0.60	2,370	0.59
H021.7221	2,770	0.03	2,665	0.03	100	0.02
H022.7222	21,885	0.26	20,845	0.26	1,040	0.26
H111.7251	31,515	0.38	30,185	0.38	1,330	0.33
H112.7252	21,285	0.25	20,470	0.26	815	0.20
H113.7253	4,005	0.05	3,875	0.05	135	0.03
H121.7271	128,310	1.53	121,875	1.52	6,430	1.60
H122.7272	18,940	0.23	17,890	0.22	1,050	0.26
H131.7281	20,360	0.24	19,380	0.24	980	0.24
H132.7282	9,600	0.11	9,110	0.11	490	0.12
H133.7283	5,945	0.07	5,610	0.07	330	0.08
H134.7284	21,435	0.26	20,430	0.26	1,005	0.25
H141.7291	15,775	0.19	15,055	0.19	720	0.18
H142.7292	9,030	0.11	8,670	0.11	355	0.09
H143.7293	7,010	0.08	6,695	0.08	315	0.08
H144.7294	36,605	0.44	34,755	0.43	1,850	0.46
H145.7295	12,300	0.15	11,715	0.15	585	0.15
H211.7241	56,770	0.68	54,685	0.68	2,080	0.52
H212.7242	23,095	0.28	22,340	0.28	755	0.19
H213.7243	6,140	0.07	5,950	0.07	190	0.05

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H214.7244	13,700	0.16	13,135	0.16	570	0.14
H215.7245	8,925	0.11	8,575	0.11	350	0.09
H216.7246	29,270	0.35	28,135	0.35	1,135	0.28
H217.7247	3,995	0.05	3,880	0.05	110	0.03
H221.7351	20,845	0.25	20,030	0.25	820	0.20
H222.7352	7,315	0.09	7,080	0.09	235	0.06
H311.7231	47,370	0.56	45,285	0.57	2,085	0.52
H312.7232	16,110	0.19	15,340	0.19	775	0.19
H321.7261	21,015	0.25	20,185	0.25	830	0.21
H322.7262	4,435	0.05	4,320	0.05	115	0.03
H323.7263	7,990	0.10	7,645	0.10	345	0.09
H324.7264	8,845	0.11	8,525	0.11	320	0.08
H326.7266	1,645	0.02	1,580	0.02	65	0.02
H411.7311	68,810	0.82	65,990	0.83	2,820	0.70
H412.7312	43,310	0.52	41,620	0.52	1,690	0.42
H413.7313	10,555	0.13	10,100	0.13	455	0.11
H414.7314	5,535	0.07	5,300	0.07	235	0.06
H415.7315	15,555	0.19	14,805	0.19	750	0.19
H416.7316	4,250	0.05	4,085	0.05	160	0.04
H417.7317	2,025	0.02	1,940	0.02	85	0.02
H418.7318	4,210	0.05	4,045	0.05	165	0.04
H421.7321	128,250	1.53	122,720	1.54	5,530	1.37
H422.7322	36,215	0.43	34,600	0.43	1,615	0.40
H431.7331	4,060	0.05	3,900	0.05	160	0.04
H432.7332	11,380	0.14	10,940	0.14	440	0.11
H433.7333	8,885	0.11	8,590	0.11	295	0.07
H434.7334	1,200	0.01	1,165	0.01	35	0.01
H435.7335	6,625	0.08	6,325	0.08	295	0.07
H511.7341	7,825	0.09	7,395	0.09	430	0.11
H512.7342	5,900	0.07	5,535	0.07	370	0.09
H513.7343	3,430	0.04	3,220	0.04	210	0.05
H514.7344	4,235	0.05	4,005	0.05	230	0.06
H522.7382	820	0.01	780	0.01	40	0.01
H523.7383	5,865	0.07	5,660	0.07	205	0.05
H531.7441	26,100	0.31	24,790	0.31	1,315	0.33
H532.7442	5,105	0.06	4,865	0.06	245	0.06
H533.7443	14,050	0.17	13,195	0.17	855	0.21
H534.7444	1,525	0.02	1,450	0.02	75	0.02

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
H535.7445	10,730	0.13	10,205	0.13	525	0.13
H611.7421	74,400	0.89	70,720	0.88	3,680	0.91
H612.7422	18,305	0.22	17,315	0.22	990	0.25
H621.7371	14,335	0.17	13,640	0.17	695	0.17
H622.7372	3,730	0.04	3,540	0.04	190	0.05
H623.7373	1,620	0.02	1,555	0.02	65	0.02
H711.7411	210,535	2.51	199,020	2.49	11,515	2.86
H712.7412	48,715	0.58	45,730	0.57	2,985	0.74
H713.7413	32,035	0.38	30,195	0.38	1,840	0.46
H714.7414	90,115	1.07	85,140	1.07	4,975	1.24
H721.7361	7,100	0.08	6,820	0.09	280	0.07
H722.7362	6,855	0.08	6,525	0.08	330	0.08
H731.7431	2,725	0.03	2,610	0.03	110	0.03
H732.7432	6,505	0.08	6,065	0.08	440	0.11
H733.7433	5,670	0.07	5,415	0.07	255	0.06
H734.7434	1,240	0.01	1,190	0.01	50	0.01
H735.7435	1,960	0.02	1,850	0.02	105	0.03
H736.7436	1,285	0.02	1,230	0.02	50	0.01
H737.7437	7,680	0.09	7,265	0.09	410	0.10
H811.7451	9,480	0.11	8,975	0.11	505	0.13
H812.7452	127,770	1.52	120,615	1.51	7,160	1.78
H821.7611	164,220	1.96	155,305	1.94	8,915	2.21
H822.7612	17,190	0.20	16,320	0.20	870	0.22
H831.7621	59,965	0.71	55,670	0.70	4,300	1.07
H832.7622	6,725	0.08	6,320	0.08	405	0.10
I011.8251	200,365	2.39	189,120	2.37	11,245	2.79
I012.8252	1,515	0.02	1,455	0.02	60	0.01
I013.8253	7,485	0.09	7,030	0.09	460	0.11
I014.8254	3,550	0.04	3,365	0.04	185	0.05
I015.8255	7,620	0.09	7,280	0.09	345	0.09
I016.8256	8,720	0.10	8,170	0.10	545	0.14
I017.8257	1,295	0.02	1,245	0.02	50	0.01
I021.8431	104,075	1.24	96,630	1.21	7,445	1.85
I022.8432	17,505	0.21	16,210	0.20	1,295	0.32
I111.8211	8,650	0.10	8,160	0.10	490	0.12
I121.8221	6,785	0.08	6,495	0.08	285	0.07
I122.8222	4,615	0.05	4,460	0.06	155	0.04
I131.8231	19,355	0.23	18,435	0.23	920	0.23

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
I132.8232	3,650	0.04	3,445	0.04	205	0.05
I141.8411	2,605	0.03	2,500	0.03	105	0.03
I142.8412	6,445	0.08	6,230	0.08	215	0.05
I151.8241	13,135	0.16	12,460	0.16	675	0.17
I161.8421	26,570	0.32	25,210	0.32	1,360	0.34
I162.8422	7,905	0.09	7,385	0.09	520	0.13
I171.8261	3,255	0.04	3,125	0.04	130	0.03
I172.8262	31,480	0.37	30,135	0.38	1,345	0.33
I181.8441	9,475	0.11	8,965	0.11	510	0.13
I182.8442	1,580	0.02	1,415	0.02	165	0.04
I211.8611	6,965	0.08	6,495	0.08	470	0.12
I212.8612	72,195	0.86	66,800	0.84	5,395	1.34
I213.8613	1,990	0.02	1,875	0.02	120	0.03
I214.8614	8,410	0.10	8,090	0.10	320	0.08
I215.8615	8,425	0.10	8,050	0.10	380	0.09
I216.8616	26,325	0.31	24,695	0.31	1,630	0.40
J011.9211	11,035	0.13	10,615	0.13	420	0.10
J012.9212	10,170	0.12	9,805	0.12	365	0.09
J013.9213	8,810	0.10	8,435	0.11	375	0.09
J014.9214	5,265	0.06	4,995	0.06	275	0.07
J015.9215	11,570	0.14	11,075	0.14	495	0.12
J016.9216	2,445	0.03	2,365	0.03	80	0.02
J021.9221	4,165	0.05	3,940	0.05	220	0.05
J022.9222	1,890	0.02	1,805	0.02	85	0.02
J023.9223	1,775	0.02	1,680	0.02	95	0.02
J024.9224	4,950	0.06	4,745	0.06	200	0.05
J025.9225	1,560	0.02	1,500	0.02	60	0.01
J026.9226	3,115	0.04	3,030	0.04	85	0.02
J027.9227	2,490	0.03	2,405	0.03	85	0.02
J112.9232	13,025	0.16	12,620	0.16	405	0.10
J113.9233	1,790	0.02	1,735	0.02	55	0.01
J114.9234	7,865	0.09	7,560	0.09	310	0.08
J120.9410	13,220	0.16	12,725	0.16	495	0.12
J122.9412	9,645	0.11	9,200	0.12	445	0.11
J123.9413	5,185	0.06	4,945	0.06	240	0.06
J124.9414	6,155	0.07	5,860	0.07	300	0.07
J125.9415	4,520	0.05	4,300	0.05	215	0.05
J131.9421	6,985	0.08	6,630	0.08	355	0.09

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J132.9422	9,245	0.11	8,840	0.11	405	0.10
J133.9423	9,395	0.11	9,070	0.11	325	0.08
J134.9424	4,545	0.05	4,385	0.05	160	0.04
J141.9431	15,985	0.19	15,155	0.19	830	0.21
J142.9432	5,345	0.06	5,170	0.06	180	0.04
J143.9433	3,445	0.04	3,270	0.04	180	0.04
J144.9434	6,170	0.07	5,905	0.07	265	0.07
J145.9435	6,330	0.08	6,045	0.08	285	0.07
J146.9436	6,810	0.08	6,540	0.08	265	0.07
J151.9441	2,465	0.03	2,340	0.03	120	0.03
J152.9442	4,910	0.06	4,610	0.06	300	0.07
J153.9443	4,520	0.05	4,310	0.05	210	0.05
J154.9444	1,685	0.02	1,615	0.02	70	0.02
J161.9451	6,220	0.07	5,890	0.07	330	0.08
J162.9452	5,520	0.07	5,160	0.06	360	0.09
J163.9453	660	0.01	625	0.01	35	0.01
J164.9454	875	0.01	845	0.01	30	0.01
J171.9461	24,350	0.29	23,030	0.29	1,320	0.33
J172.9462	11,420	0.14	10,790	0.14	630	0.16
J173.9463	15,795	0.19	15,060	0.19	735	0.18
J174.9464	630	0.01	585	0.01	45	0.01
J175.9465	2,570	0.03	2,485	0.03	85	0.02
J180.9470	33,310	0.40	31,750	0.40	1,560	0.39
J182.9472	4,730	0.06	4,555	0.06	175	0.04
J183.9473	4,475	0.05	4,225	0.05	250	0.06
J184.9474	5,345	0.06	5,085	0.06	260	0.06
J191.9511	12,140	0.14	11,610	0.15	525	0.13
J192.9512	2,125	0.03	2,035	0.03	90	0.02
J193.9513	11,430	0.14	10,820	0.14	610	0.15
J194.9514	18,845	0.22	17,880	0.22	965	0.24
J195.9510	89,100	1.06	85,330	1.07	3,770	0.94
J196.9516	3,940	0.05	3,750	0.05	190	0.05
J197.9517	3,430	0.04	3,305	0.04	125	0.03
J211.9481	7,125	0.08	6,845	0.09	280	0.07
J212.9482	41,795	0.50	39,925	0.50	1,870	0.46
J213.9483	10,280	0.12	9,835	0.12	445	0.11
J214.9484	7,560	0.09	7,115	0.09	445	0.11
J215.9485	3,665	0.04	3,485	0.04	175	0.04

Appendix 2. Population Who Worked Since January 1, 1990 by Occupation Unit Groups (Based on the 1991 Standard Occupational Classification) Showing Occupation Reported and Imputed (Number and Percentage Distribution) by Sex, for Canada, 1991 Census - 20% Sample Data

Occupation Unit Groups (Males)	Total	Percentage Distribution	Occupation Reported	Percentage Distribution	Occupation Imputed	Percentage Distribution
J216.9486	10,885	0.13	10,345	0.13	540	0.13
J217.9487	1,085	0.01	1,060	0.01	30	0.01
J221.9491	4,230	0.05	4,080	0.05	150	0.04
J222.9492	13,470	0.16	12,655	0.16	815	0.20
J223.9493	9,025	0.11	8,570	0.11	455	0.11
J224.9494	5,615	0.07	5,345	0.07	270	0.07
J225.9495	7,760	0.09	7,340	0.09	425	0.11
J226.9496	17,430	0.21	16,605	0.21	825	0.20
J227.9497	2,230	0.03	2,090	0.03	135	0.03
J228.9498	4,905	0.06	4,685	0.06	220	0.05
J311.9611	19,035	0.23	18,070	0.23	965	0.24
J312.9612	24,865	0.30	22,980	0.29	1,890	0.47
J313.9613	9,495	0.11	9,020	0.11	475	0.12
J314.9614	38,905	0.46	37,255	0.47	1,645	0.41
J315.9615	6,810	0.08	6,445	0.08	365	0.09
J316.9616	5,315	0.06	5,065	0.06	250	0.06
J317.9617	29,955	0.36	28,290	0.35	1,665	0.41
J318.9618	4,065	0.05	4,020	0.05	50	0.01
J319.9619	31,770	0.38	29,085	0.36	2,685	0.67

Appendix 3

The 1991 Standard Occupational Classification List of Broad Occupational Categories, Major Groups, Minor Groups and Unit Groups

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

A MANAGEMENT OCCUPATIONS

A0 SENIOR MANAGEMENT OCCUPATIONS

- A01.001 Legislators and Senior Management**
A011.0011 Legislators
A012.0012 Senior Government Managers and Officials
A013.0013 Senior Managers - Financial, Communications Carriers and Other Business Services
A014.0014 Senior Managers - Health, Education, Social and Community Services and Membership Organizations
A015.0015 Senior Managers - Trade, Broadcasting and Other Services, n.e.c.
A016.0016 Senior Managers - Goods Production, Utilities, Transportation and Construction

A1 SPECIALIST MANAGERS

- A11.011 Administrative Services Managers**
A111.0111 Financial Managers
A112.0112 Human Resources Managers
A113.0113 Purchasing Managers
A114.0114 Other Administrative Services Managers
A12.021 Managers in Engineering, Architecture, Science and Information Systems
A121.0210 Engineering, Science and Architecture Managers(1)
A122.0213 Information Systems and Data Processing Managers
A13.061 Sales, Marketing and Advertising Managers
A131.0611 Sales, Marketing and Advertising Managers
A14.072 Facility Operation and Maintenance Managers
A141.0720 Facility Operation and Maintenance Managers(1)

A2 MANAGERS IN RETAIL TRADE, FOOD AND ACCOMMODATION SERVICES

- A21.062 Managers in Retail Trade**
A211.0621 Retail Trade Managers
A22.063 Managers in Food Service and Accommodation
A221.0631 Restaurant and Food Service Managers
A222.0632 Accommodation Service Managers

A3 OTHER MANAGERS N.E.C.

- A30.012 Managers in Financial and Business Services**
A301.0121 Insurance, Real Estate and Financial Brokerage Managers
A302.0122 Banking, Credit and Other Investment Managers
A303.0123 Other Business Services Managers
A31.013 Managers in Communication (except Broadcasting)
A311.0131 Telecommunication Carriers Managers
A312.0132 Postal and Courier Services Managers
A32.031 Managers in Health, Education, Social and Community Services
A321.0311 Managers in Health Care
A322.0312 Administrators in Post-Secondary Education and Vocational Training
A323.0313 School Principals and Administrators of Elementary and Secondary Education
A324.0314 Managers in Social, Community and Correctional Services
A33.041 Managers in Public Administration
A331.0411 Government Managers in Health and Social Policy Development and Program Administration
A332.0412 Government Managers in Economic Analysis, Policy Development and Program Administration
A333.0413 Government Managers in Education Policy Development and Program Administration
A334.0414 Other Managers in Public Administration
A34.051 Managers in Art, Culture, Recreation and Sport
A341.0511 Library, Archive, Museum and Art Gallery Managers
A342.0512 Managers in Publishing, Motion Pictures, Broadcasting and Performing Arts
A343.0513 Recreation and Sport Program and Service Directors
A35.064 Managers in Protective Service
A351.0641 Commissioned Police Officers
A352.0642 Fire Chiefs and Senior Fire-fighting Officers
A353.0643 Commissioned Officers, Armed Forces
A36.065 Managers in Other Services
A361.0651 Other Services Managers

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

A37.071 Managers in Construction and Transportation

- A371.0711 Construction Managers
- A372.0712 Residential Home Builders and Renovators
- A373.0713 Transportation Managers

A38.081 Managers in Primary Production (except Agriculture)

- A381.0811 Primary Production Managers (except Agriculture)

A39.091 Managers in Manufacturing and Utilities

- A391.0911 Manufacturing Managers
- A392.0912 Utilities Managers

B BUSINESS, FINANCE AND ADMINISTRATIVE OCCUPATIONS

B0 PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

B01.111 Auditors, Accountants and Investment Professionals

- B011.1111 Financial Auditors and Accountants
- B012.1112 Financial and Investment Analysts
- B013.1113 Securities Agents, Investment Dealers and Traders
- B014.1114 Other Financial Officers

B02.112 Human Resources and Business Service Professionals

- B021.1121 Specialists in Human Resources
- B022.1122 Professional Occupations in Business Services to Management

B1 FINANCE AND INSURANCE ADMINISTRATIVE OCCUPATIONS

B11.123 Finance and Insurance Administrative Occupations

- B111.1231 Bookkeepers
- B112.1232 Loan Officers
- B113.1233 Insurance Adjusters and Claims Examiners
- B114.1234 Insurance Underwriters
- B115.1235 Assessors, Valuators and Appraisers
- B116.1236 Customs, Ship and Other Brokers

B2 SECRETARIES

B21.124 Secretaries, Records and Transcriptionists

- B211.1241 Secretaries (except Legal and Medical)
- B212.1242 Legal Secretaries
- B213.1243 Medical Secretaries
- B214.1244 Court Records and Medical Transcriptionists

B3 ADMINISTRATIVE AND REGULATORY OCCUPATIONS

B31.122 Administrative and Regulatory Occupations

- B311.1221 Administrative Officers
- B312.1222 Executive Assistants
- B313.1223 Personnel and Recruitment Officers
- B314.1224 Property Administrators
- B315.1225 Purchasing Agents and Officers
- B316.1226 Conference and Event Planners
- B317.1227 Court Officers and Justices of the Peace
- B318.1228 Immigration, Unemployment Insurance and Revenue Officers

B4 CLERICAL SUPERVISORS

B41.121 Clerical Supervisors

- B411.1211 Supervisors, General Office and Administrative Support Clerks
- B412.1212 Supervisors, Finance and Insurance Clerks
- B413.1213 Supervisors, Library, Correspondence and Related Information Clerks
- B414.1214 Supervisors, Mail and Message Distribution Occupations
- B415.1215 Supervisors, Recording, Distributing and Scheduling Occupations

B5 CLERICAL OCCUPATIONS

B51.141 Clerical Occupations, General Office Skills

- B511.1411 General Office Clerks
- B512.1412 Typists and Word Processing Operators
- B513.1413 Records and File Clerks
- B514.1414 Receptionists and Switchboard Operators

B52.142 Office Equipment Operators

- B521.1421 Computer Operators
- B522.1422 Data Entry Clerks
- B523.1423 Typesetters and Related Occupations
- B524.1424 Telephone Operators

B53.143 Finance and Insurance Clerks

- B531.1431 Accounting and Related Clerks
- B532.1432 Payroll Clerks

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

B533.1433 Tellers, Financial Services
B534.1434 Banking, Insurance and Other Financial Clerks
B535.1435 Collectors

B54.144 Administrative Support Clerks

B541.1441 Administrative Clerks
B542.1442 Personnel Clerks
B543.1443 Court Clerks

B55.145 Library, Correspondence and Related Information Clerks

B551.1451 Library Clerks
B552.1452 Correspondence, Publication and Related Clerks
B553.1453 Customer Service, Information and Related Clerks
B554.1454 Survey Interviewers and Statistical Clerks

B56.146 Mail and Message Distribution Occupations

B561.1461 Mail, Postal and Related Clerks
B562.1462 Letter Carriers
B563.1463 Couriers and Messengers

B57.147 Recording, Scheduling and Distributing Occupations

B571.1471 Shippers and Receivers
B572.1472 Storekeepers and Parts Clerks
B573.1473 Production Clerks
B574.1474 Purchasing and Inventory Clerks
B575.1475 Dispatchers and Radio Operators
B576.1476 Transportation Route and Crew Schedulers

C NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

C0 PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

C01.211 Physical Science Professionals

C011.2111 Physicists and Astronomers
C012.2112 Chemists
C013.2113 Geologists, Geochemists and Geophysicists
C014.2114 Meteorologists
C015.2115 Other Professional Occupations in Physical Sciences

C02.212 Life Science Professionals

C021.2121 Biologists and Related Scientists
C022.2122 Forestry Professionals
C023.2123 Agricultural Representatives, Consultants and Specialists

C03.213 Civil, Mechanical, Electrical and Chemical Engineers

C031.2131 Civil Engineers
C032.2132 Mechanical Engineers
C033.2133 Electrical and Electronics Engineers
C034.2134 Chemical Engineers

C04.214 Other Engineers

C041.2141 Industrial and Manufacturing Engineers
C042.2142 Metallurgical and Materials Engineers
C043.2143 Mining Engineers
C044.2144 Geological Engineers
C045.2145 Petroleum Engineers
C046.2146 Aerospace Engineers
C047.2147 Computer Engineers
C048.2148 Other Professional Engineers, n.e.c.

C05.215 Architects, Urban Planners and Land Surveyors

C051.2151 Architects
C052.2152 Landscape Architects
C053.2153 Urban and Land Use Planners
C054.2154 Land Surveyors

C06.216 Mathematicians, Systems Analysts and Computer Programmers

C061.2161 Mathematicians, Statisticians and Actuaries
C062.2162 Computer Systems Analysts
C063.2163 Computer Programmers

C1 TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

C11.221 Technical Occupations in Physical Sciences

C111.2211 Applied Chemical Technologists and Technicians
C112.2212 Geological and Mineral Technologists and Technicians
C113.2213 Meteorological Technicians

C12.222 Technical Occupations in Life Sciences

C121.2221 Biological Technologists and Technicians
C122.2222 Agricultural and Fish Products Inspectors
C123.2223 Forestry Technologists and Technicians
C124.2224 Conservation and Fishery Officers
C125.2225 Landscape and Horticultural Technicians and Specialists

C13.223 Technical Occupations in Civil, Mechanical and Industrial Engineering

C131.2230 Civil Engineering Technologists and Technicians and Construction Estimators(1)

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

C132.2232 Mechanical Engineering Technologists and Technicians
C133.2233 Industrial Engineering and Manufacturing Technologists and Technicians
C14.224 Technical Occupations in Electronics and Electrical Engineering
C141.2241 Electrical and Electronics Engineering Technologists and Technicians
C142.2242 Electronic Service Technicians (Household and Business Equipment)
C143.2243 Industrial Instrument Technicians and Mechanics
C144.2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors
C15.225 Technical Occupations in Architecture, Drafting, Surveying and Mapping
C151.2251 Architectural Technologists and Technicians
C152.2252 Industrial Designers
C153.2253 Drafting Technologists and Technicians
C154.2254 Survey Technologists and Technicians
C155.2255 Mapping and Related Technologists and Technicians
C16.226 Other Technical Inspectors and Regulatory Officers
C161.2261 Nondestructive Testers and Inspectors
C162.2262 Engineering Inspectors and Regulatory Officers
C163.2263 Inspectors in Public and Environmental Health and Occupational Health and Safety
C164.2264 Construction Inspectors
C17.227 Transportation Officers and Controllers
C171.2271 Air Pilots, Flight Engineers and Flying Instructors
C172.2272 Air Traffic Control Occupations
C173.2273 Deck Officers, Water Transport
C174.2274 Engineer Officers, Water Transport
C175.2275 Railway and Marine Traffic Controllers

D02.312 Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals

D021.3121 Optometrists
D022.3122 Chiropractors
D023.3123 Other Professional Occupations in Health Diagnosing and Treating

D03.313 Pharmacists, Dietitians and Nutritionists

D031.3131 Pharmacists
D032.3132 Dietitians and Nutritionists

D04.314 Therapy and Assessment Professionals

D041.3141 Audiologists and Speech-Language Pathologists
D042.3142 Physiotherapists
D043.3143 Occupational Therapists
D044.3144 Other Professional Occupations in Therapy and Assessment

D1 NURSE SUPERVISORS AND REGISTERED NURSES

D11.315 Nurse Supervisors and Registered Nurses

D111.3151 Head Nurses and Supervisors
D112.3152 Registered Nurses

D2 TECHNICAL AND RELATED OCCUPATIONS IN HEALTH

D21.321 Medical Technologists and Technicians (except Dental Health)

D211.3211 Medical Laboratory Technologists and Pathologists' Assistants
D212.3212 Medical Laboratory Technicians
D213.3213 Animal Health Technologists
D214.3214 Respiratory Therapists and Clinical Perfusionists
D215.3215 Medical Radiation Technologists
D216.3216 Medical Sonographers
D217.3217 Cardiology Technologists
D218.3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.
D219.3219 Other Medical Technologists and Technicians (except Dental Health)

D22.322 Technical Occupations in Dental Health Care

D221.3221 Denturists
D222.3222 Dental Hygienists and Dental Therapists
D223.3220 Dental Technicians and Laboratory Bench Workers(1)

D HEALTH OCCUPATIONS

D0 PROFESSIONAL OCCUPATIONS IN HEALTH

D01.311 Physicians, Dentists and Veterinarians

D011.3111 Specialist Physicians
D012.3112 General Practitioners and Family Physicians
D013.3113 Dentists
D014.3114 Veterinarians

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

**D23.323 Other Technical Occupations in Health Care
(except Dental)**

- D231.3231 Opticians
- D232.3232 Midwives and Practitioners of Natural Healing
- D233.3233 Registered Nursing Assistants
- D234.3234 Ambulance Attendants and Other Paramedical Occupations
- D235.3235 Other Technical Occupations in Therapy and Assessment

**D3 ASSISTING OCCUPATIONS IN SUPPORT OF
HEALTH SERVICES**

**D31.341 Assisting Occupations in Support of Health
Services**

- D311.3411 Dental Assistants
- D312.3413 Nurse Aides and Orderlies
- D313.3414 Other Aides and Assistants in Support of Health Services

**E OCCUPATIONS IN SOCIAL SCIENCE,
EDUCATION, GOVERNMENT SERVICE
AND RELIGION**

**E0 JUDGES, LAWYERS, PSYCHOLOGISTS,
SOCIAL WORKERS, MINISTERS OF
RELIGION, AND POLICY AND PROGRAM
OFFICERS**

E01.411 Judges, Lawyers and Quebec Notaries

- E011.4111 Judges
- E012.4112 Lawyers and Quebec Notaries

**E02.415 Psychologists, Social Workers, Counsellors,
Clergy and Probation Officers**

- E021.4151 Psychologists
- E022.4152 Social Workers
- E023.4153 Family, Marriage and Other Related Counsellors
- E024.4154 Ministers of Religion
- E025.4155 Probation and Parole Officers and Related Occupations

**E03.416 Policy and Program Officers, Researchers
and Consultants**

- E031.4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers
- E032.4162 Economists and Economic Policy Researchers and Analysts

**E033.4163 Economic Development Officers and
Marketing Researchers and Consultants**

**E034.4160 Health and Social Policy Researchers,
Consultants and Program Officers(1)**

**E035.4166 Education Policy Researchers, Consultants and
Program Officers**

**E036.4167 Recreation and Sports Program Supervisors
and Consultants**

E037.4168 Program Officers Unique to Government

**E038.4169 Other Professional Occupations in Social
Science**

E1 TEACHERS AND PROFESSORS

E11.412 University Professors and Assistants

- E111.4121 University Professors
- E112.4122 Post-Secondary Teaching and Research Assistants

E12.413 College and Other Vocational Instructors

E121.4131 College and Other Vocational Instructors

**E13.414 Secondary and Elementary School Teachers
and Counsellors**

- E131.4141 Secondary School Teachers
- E132.4142 Elementary School and Kindergarten Teachers
- E133.4143 School and Guidance Counsellors

**E2 PARALEGALS, SOCIAL SERVICES
WORKERS AND OCCUPATIONS IN
EDUCATION AND RELIGION, N.E.C.**

**E21.421 Paralegals, Social Services Workers and
Occupations in Education and Religion,
n.e.c.**

- E211.4211 Paralegal and Related Occupations
- E212.4212 Community and Social Service Workers
- E213.4213 Employment Counsellors
- E214.4215 Instructors and Teachers of Disabled Persons
- E215.4216 Other Instructors
- E216.4217 Other Religious Occupations

**F OCCUPATIONS IN ART, CULTURE,
RECREATION AND SPORT**

**F0 PROFESSIONAL OCCUPATIONS IN ART
AND CULTURE**

**F01.511 Librarians, Archivists, Conservators and
Curators**

F011.5111 Librarians

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

F012.5112 Conservators and Curators
F013.5113 Archivists
F02.512 Writing, Translating and Public Relations Professionals

F021.5121 Writers
F022.5122 Editors
F023.5123 Journalists
F024.5124 Professional Occupations in Public Relations and Communications
F025.5125 Translators, Terminologists and Interpreters

F03.513 Creative and Performing Artists

F031.5131 Producers, Directors, Choreographers and Related Occupations
F032.5132 Conductors, Composers and Arrangers
F033.5133 Musicians and Singers
F034.5134 Dancers
F035.5135 Actors
F036.5136 Painters, Sculptors and Other Visual Artists

F1 TECHNICAL OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

F11.521 Technical Occupations in Libraries, Archives, Museums and Galleries

F111.5211 Library and Archive Technicians and Assistants
F112.5212 Technical Occupations Related to Museums and Galleries

F12.522 Photographers, Graphic Arts Technicians and Technical Occupations in Motion Pictures, Broadcasting and the Performing Arts

F121.5221 Photographers
F122.5222 Film and Video Camera Operators
F123.5223 Graphic Arts Technicians
F124.5224 Broadcast Technicians
F125.5225 Audio and Video Recording Technicians
F126.5226 Other Technical Occupations in Motion Pictures, Broadcasting and the Performing Arts
F127.5227 Support and Assisting Occupations in Motion Pictures, Broadcasting and the Performing Arts

F13.523 Announcers and Other Performers

F131.5231 Announcers and Other Broadcasters
F132.5232 Other Performers

F14.524 Creative Designers and Craftspersons

F141.5241 Graphic Designers and Illustrating Artists

F142.5242 Interior Designers
F143.5243 Theatre, Fashion, Exhibit and Other Creative Designers
F144.5244 Artisans and Craftspersons
F145.5245 Patternmakers - Textile, Leather and Fur Products

F15.525 Athletes, Coaches, Referees and Related Occupations

F151.5251 Athletes
F152.5252 Coaches
F153.5253 Sports Officials and Referees
F154.5254 Program Leaders and Instructors in Recreation and Sport

G SALES AND SERVICE OCCUPATIONS

G0 SALES AND SERVICE SUPERVISORS

G01.621 Sales and Service Supervisors

G011.6211 Retail Trade Supervisors
G012.6212 Food Service Supervisors
G013.6213 Executive Housekeepers
G014.6214 Dry Cleaning and Laundry Supervisors
G015.6215 Cleaning Supervisors
G016.6216 Other Service Supervisors

G1 WHOLESALE, TECHNICAL, INSURANCE, REAL ESTATE SALES SPECIALISTS, AND RETAIL, WHOLESALE AND GRAIN BUYERS

G11.641 Sales Representatives, Wholesale Trade

G111.6411 Sales Representatives, Wholesale Trade (Non-Technical)

G12.622 Technical Sales Specialists, Wholesale Trade

G121.6221 Technical Sales Specialists, Wholesale Trade

G13.623 Insurance and Real Estate Sales Occupations and Buyers

G131.6231 Insurance Agents and Brokers
G132.6232 Real Estate Agents and Salespersons
G133.6233 Retail and Wholesale Buyers
G134.6234 Grain Elevator Operators

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

G2 RETAIL SALESPERSONS AND SALES CLERKS

G21.642 Retail Salespersons and Sales Clerks

G211.6421 Retail Salespersons and Sales Clerks

G3 CASHIERS

G31.661 Cashiers

G311.6611 Cashiers

G4 CHEFS AND COOKS

G41.624 Chefs and Cooks

G411.6241 Chefs

G412.6242 Cooks

G5 OCCUPATIONS IN FOOD AND BEVERAGE SERVICE

G51.645 Occupations in Food and Beverage Service

G511.6451 Maitres d'hôtel and Hosts/Hostesses

G512.6452 Bartenders

G513.6453 Food and Beverage Servers

G6 OCCUPATIONS IN PROTECTIVE SERVICES

G61.626 Police Officers and Fire-fighters

G611.6261 Police Officers (except Commissioned)

G612.6262 Fire-fighters

G62.646 Other Occupations in Protective Service

G621.6461 Sheriffs and Bailiffs

G622.6462 Correctional Service Officers

G623.6463 By-law Enforcement and Other Regulatory Officers, n.e.c.

G624.6464 Other Ranks, Armed Forces

G625.6465 Other Protective Service Occupations

G63.665 Security Guards and Related Occupations

G631.6651 Security Guards and Related Occupations

G7 OCCUPATIONS IN TRAVEL AND ACCOMMODATION INCLUDING ATTENDANTS IN RECREATION AND SPORT

G71.643 Occupations in Travel and Accommodation

G711.6431 Travel Counsellors

G712.6432 Purser and Flight Attendants

G713.6433 Airline Sales and Service Agents

G714.6434 Ticket and Cargo Agents and Related Clerks (except Airline)

G715.6435 Hotel Front Desk Clerks

G72.644 Tour and Recreational Guides and Amusement Occupations

G721.6441 Tour and Travel Guides

G722.6442 Outdoor Sport and Recreational Guides

G73.667 Other Attendants in Travel, Accommodation and Recreation

G731.6670 Attendants in Amusement, Recreation and Sport(1)

G732.6672 Other Attendants in Accommodation and Travel (except Airline Travel)

G8 CHILDCARE AND HOME SUPPORT WORKERS

G81.647 Childcare and Home Support Workers

G811.6471 Visiting Homemakers, Housekeepers and Related Occupations

G812.6472 Elementary and Secondary School Teacher Assistants

G813.6470 Early Childhood Educators and Assistants(1)

G814.6474 Babysitters, Nannies and Parents' Helpers

G9 SALES AND SERVICE OCCUPATIONS N.E.C.

G91.627 Technical Occupations in Personal Service

G911.6271 Hairstylists and Barbers

G912.6272 Funeral Directors and Embalmers

G92.648 Other Occupations in Personal Service

G921.6481 Image, Social and Other Personal Consultants

G922.6482 Estheticians, Electrologists and Related Occupations

G923.6483 Pet Groomers and Animal Care Workers

G924.6484 Other Personal Service Occupations

G93.666 Cleaners

G931.6661 Light Duty Cleaners

G932.6662 Specialized Cleaners

G933.6663 Janitors, Caretakers and Building Superintendents

G94.625 Butchers and Bakers

G941.6251 Butchers and Meat Cutters, Retail and Wholesale

G942.6252 Bakers

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

G95.663 Elemental Medical and Hospital Assistants

G951.6631 Elemental Medical and Hospital Assistants

G96.664 Food Counter Attendants and Kitchen Helpers

G961.6641 Food Service Counter Attendants and Food Preparers

G962.6642 Kitchen and Food Service Helpers

G97.662 Other Sales and Related Occupations

G971.6621 Service Station Attendants

G972.6622 Grocery Clerks and Shelf Stockers

G973.6623 Other Elemental Sales Occupations

G98.668 Other Elemental Service Occupations

G981.6681 Dry Cleaning and Laundry Occupations

G982.6682 Ironing, Pressing and Finishing Occupations

G983.6683 Other Elemental Service Occupations

**H TRADES, TRANSPORT AND
EQUIPMENT OPERATORS AND
RELATED OCCUPATIONS**

**H0 CONTRACTORS AND SUPERVISORS IN
TRADES AND TRANSPORTATION**

**H01.721 Contractors and Supervisors, Trades and
Related Workers**

H011.7211 Supervisors, Machinists and Related Occupations

H012.7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations

H013.7213 Contractors and Supervisors, Pipefitting Trades

H014.7214 Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades

H015.7215 Contractors and Supervisors, Carpentry Trades

H016.7216 Contractors and Supervisors, Mechanic Trades

H017.7217 Contractors and Supervisors, Heavy Construction Equipment Crews

H018.7218 Supervisors, Printing and Related Occupations

H019.7219 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers

**H02.722 Supervisors, Railway and Motor
Transportation Occupations**

H021.7221 Supervisors, Railway Transport Operations

H022.7222 Supervisors, Motor Transport and Other Ground Transit Operators

H1 CONSTRUCTION TRADES

H11.725 Plumbers, Pipefitters and Gas Fitters

H111.7251 Plumbers

H112.7252 Steamfitters, Pipefitters and Sprinkler System Installers

H113.7253 Gas Fitters

H12.727 Carpenters and Cabinetmakers

H121.7271 Carpenters

H122.7272 Cabinetmakers

H13.728 Masonry and Plastering Trades

H131.7281 Bricklayers

H132.7282 Cement Finishers

H133.7283 Tilesetters

H134.7284 Plasterers, Drywall Installers and Finishers, and Lathers

H14.729 Other Construction Trades

H141.7291 Roofers and Shinglers

H142.7292 Glaziers

H143.7293 Insulators

H144.7294 Painters and Decorators

H145.7295 Floor Covering Installers

**H2 STATIONARY ENGINEERS, POWER
STATION OPERATORS AND ELECTRICAL
TRADES AND TELECOMMUNICATIONS
OCCUPATIONS**

**H21.724 Electrical Trades and Telecommunications
Occupations**

H211.7241 Electricians (except Industrial and Power System)

H212.7242 Industrial Electricians

H213.7243 Power System Electricians

H214.7244 Electrical Power Line and Cable Workers

H215.7245 Telecommunications Line and Cable Workers

H216.7246 Telecommunications Installation and Repair Workers

H217.7247 Cable Television Service and Maintenance Technicians

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

**H22.735 Stationary Engineers and Power Station
and System Operators**

H221.7351 Stationary Engineers and Auxiliary Equipment
Operators

H222.7352 Power Systems and Power Station Operators

**H3 MACHINISTS, METAL FORMING, SHAPING
AND ERECTING OCCUPATIONS**

H31.723 Machinists and Related Occupations

H311.7231 Machinists and Machining and Tooling
Inspectors

H312.7232 Tool and Die Makers

**H32.726 Metal Forming, Shaping and Erecting
Occupations**

H321.7261 Sheet Metal Workers

H322.7262 Boilermakers

H323.7263 Structural Metal and Platework Fabricators
and Fitters

H324.7264 Ironworkers

H325.7266 Blacksmiths and Die Setters

H4 MECHANICS

**H41.731 Machinery and Transportation Equipment
Mechanics (except Motor Vehicle)**

H411.7311 Construction Millwrights and Industrial
Mechanics (except Textile)

H412.7312 Heavy-Duty Equipment Mechanics

H413.7313 Refrigeration and Air Conditioning Mechanics

H414.7314 Railway Carmen/women

H415.7315 Aircraft Mechanics and Aircraft Inspectors

H416.7316 Machine Fitters

H417.7317 Textile Machinery Mechanics and Repairers

H418.7318 Elevator Constructors and Mechanics

H42.732 Motor Vehicle Mechanics

H421.7321 Motor Vehicle Mechanics, Technicians and
Mechanical Repairers

H422.7322 Motor Vehicle Body Repairers

H43.733 Other Mechanics

H431.7331 Oil and Solid Fuel Heating Mechanics

H432.7332 Electric Appliance Servicers and Repairers

H433.7333 Electrical Mechanics

H434.7334 Motorcycle and Other Related Mechanics

H435.7335 Other Small Engine and Equipment Mechanics

H5 OTHER TRADES N.E.C

**H51.734 Upholsterers, Tailors, Shoe Repairers,
Jewellers and Related Occupations**

H511.7341 Upholsterers

H512.7342 Tailors, Dressmakers, Furriers and Milliners

H513.7343 Shoe Repairers and Shoemakers

H514.7344 Jewellers, Watch Repairers and Related
Occupations

**H52.738 Printing Press Operators, Commercial
Divers and Other Trades, and Related
Occupations, n.e.c.**

H521.7381 Printing Press Operators

H522.7382 Commercial Divers

H523.7383 Other Trades and Related Occupations

H53.744 Other Installers, Repairers and Servicers

H531.7441 Residential and Commercial Installers and
Servicers

H532.7442 Waterworks and Gas Maintenance Workers

H533.7443 Automotive Mechanical Installers and
Servicers

H534.7444 Pest Controllers and Fumigators

H535.7445 Other Repairers and Servicers

**H6 HEAVY EQUIPMENT AND CRANE
OPERATORS INCLUDING DRILLERS**

H61.742 Heavy Equipment Operators

H611.7421 Heavy Equipment Operators (except Crane)

H612.7422 Public Works Maintenance Equipment
Operators

H62.737 Crane Operators, Drillers and Blasters

H621.7371 Crane Operators

H622.7372 Drillers and Blasters - Surface Mining,
Quarrying and Construction

H623.7373 Water Well Drillers

**H7 TRANSPORTATION EQUIPMENT
OPERATORS AND RELATED WORKERS,
EXCLUDING LABOURERS**

H71.741 Motor Vehicle and Transit Drivers

H711.7411 Truck Drivers

H712.7412 Bus Drivers and Subway and Other Transit
Operators

H713.7413 Taxi and Limousine Drivers and Chauffeurs

H714.7414 Delivery Drivers

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

H72.736 Train Crew Operating Occupations

H721.7361 Railway and Yard Locomotive Engineers
H722.7362 Railway Conductors and Brakemen/women

H73.743 Other Transport Equipment Operators and Related Workers

H731.7431 Railway Yard Workers
H732.7432 Railway Track Maintenance Workers
H733.7433 Deck Crew, Water Transport
H734.7434 Engine Room Crew, Water Transport
H735.7435 Lock and Cable Ferry Operators and Related Occupations
H736.7436 Boat Operators
H737.7437 Air Transport Ramp Attendants

H8 TRADES HELPERS, CONSTRUCTION, AND TRANSPORTATION LABOURERS AND RELATED OCCUPATIONS

H81.745 Longshore Workers and Material Handlers

H811.7451 Longshore Workers
H812.7452 Material Handlers

H82.761 Trades Helpers and Labourers

H821.7611 Construction Trades Helpers and Labourers
H822.7612 Other Trades Helpers and Labourers

H83.762 Public Works and Other Labourers, n.e.c.

H831.7621 Public Works and Maintenance Labourers
H832.7622 Railway and Motor Transport Labourers

I OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

IO OCCUPATIONS UNIQUE TO AGRICULTURE EXCLUDING LABOURERS

IO1.825 Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture

IO11.8251 Farmers and Farm Managers
IO12.8252 Agricultural and Related Service Contractors and Managers
IO13.8253 Farm Supervisors and Specialized Livestock Workers
IO14.8254 Nursery and Greenhouse Operators and Managers
IO15.8255 Landscaping and Grounds Maintenance Contractors and Managers
IO16.8256 Supervisors, Landscape and Horticulture
IO17.8257 Aquaculture Operators and Managers

IO2.843 Agriculture and Horticulture Workers

IO21.8431 General Farm Workers
IO22.8432 Nursery and Greenhouse Workers

I1 OCCUPATIONS UNIQUE TO FORESTRY OPERATIONS, MINING, OIL AND GAS EXTRACTION, AND FISHING, EXCLUDING LABOURERS

I11.821 Supervisors, Logging and Forestry

I111.8211 Supervisors, Logging and Forestry

I12.822 Supervisors, Mining, Oil and Gas

I121.8221 Supervisors, Mining and Quarrying
I122.8222 Supervisors, Oil and Gas Drilling and Service

I13.823 Underground Miners, Oil and Gas Drillers and Related Workers

I131.8231 Underground Production and Development Miners
I132.8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

I14.841 Mine Service Workers and Operators in Oil and Gas Drilling

I141.8411 Underground Mine Service and Support Workers
I142.8412 Oil and Gas Well Drilling Workers and Services Operators

I15.824 Logging Machinery Operators

I151.8241 Logging Machinery Operators

I16.842 Logging and Forestry Workers

I161.8421 Chain-saw and Skidder Operators
I162.8422 Silviculture and Forestry Workers

I17.826 Fishing Vessel Masters and Skippers and Fishermen/women

I171.8261 Fishing Masters and Officers
I172.8262 Fishing Vessel Skippers and Fishermen/women

I18.844 Other Fishing and Trapping Occupations

I181.8441 Fishing Vessel Deckhands
I182.8442 Trappers and Hunters

I2 PRIMARY PRODUCTION LABOURERS

I21.861 Primary Production Labourers

I211.8611 Harvesting Labourers

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

I212.8612 Landscaping and Grounds Maintenance Labourers
I213.8613 Aquaculture and Marine Harvest Labourers
I214.8614 Mine Labourers
I215.8615 Oil and Gas Drilling, Servicing and Related Labourers
I216.8616 Logging and Forestry Labourers

**J OCCUPATIONS UNIQUE TO
PROCESSING, MANUFACTURING AND
UTILITIES**

J0 SUPERVISORS IN MANUFACTURING

J01.921 Supervisors, Processing Occupations

J011.9211 Supervisors, Mineral and Metal Processing
J012.9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities
J013.9213 Supervisors, Food, Beverage and Tobacco Processing
J014.9214 Supervisors, Plastic and Rubber Products Manufacturing
J015.9215 Supervisors, Forest Products Processing
J016.9216 Supervisors, Textile Processing

J02.922 Supervisors, Assembly and Fabrication

J021.9221 Supervisors, Motor Vehicle Assembling
J022.9222 Supervisors, Electronics Manufacturing
J023.9223 Supervisors, Electrical Products Manufacturing
J024.9224 Supervisors, Furniture and Fixtures Manufacturing
J025.9225 Supervisors, Fabric, Fur and Leather Products
J026.9226 Supervisors, Other Mechanical and Metal Products Manufacturing
J027.9227 Supervisors, Other Products Manufacturing and Assembly

**J1 MACHINE OPERATORS IN
MANUFACTURING**

**J11.923 Central Control and Process Operators in
Manufacturing and Processing**

J111.9231 Central Control and Process Operators, Mineral and Metal Processing
J112.9232 Petroleum, Gas and Chemical Process Operators
J113.9233 Pulp Control Operators
J114.9234 Papermaking and Coating Control Operators

**J12.941 Machine Operators and Related Workers in
Metal and Mineral Products Processing**

J121.9411 Machine Operators, Mineral and Metal Processing
J122.9412 Foundry Workers
J123.9413 Glass Forming and Finishing Machine Operators and Glass Cutters
J124.9414 Concrete, Clay and Stone Forming Operators
J125.9415 Inspectors and Testers, Mineral and Metal Processing

**J13.942 Machine Operators and Related Workers in
Chemical, Plastic and Rubber Processing**

J131.9421 Chemical Plant Machine Operators
J132.9422 Plastics Processing Machine Operators
J133.9423 Rubber Processing Machine Operators and Related Workers
J134.9424 Water and Waste Plant Operators

**J14.943 Machine Operators and Related Workers in
Pulp and Paper Production and Wood
Processing**

J141.9431 Sawmill Machine Operators
J142.9432 Pulp Mill Machine Operators
J143.9433 Papermaking and Finishing Machine Operators
J144.9434 Other Wood Processing Machine Operators
J145.9435 Paper Converting Machine Operators
J146.9436 Lumber Graders and Other Wood Processing Inspectors and Graders

**J15.944 Machine Operators and Related Workers in
Textile Processing**

J151.9441 Textile Fibre and Yarn Preparation Machine Operators
J152.9442 Weavers, Knitters and Other Fabric-Making Occupations
J153.9443 Textile Dyeing and Finishing Machine Operators
J154.9444 Textile Inspectors, Graders and Samplers

**J16.945 Machine Operators and Related Workers in
Fabric, Fur and Leather Products
Manufacturing**

J161.9451 Sewing Machine Operators
J162.9452 Fabric, Fur and Leather Cutters
J163.9453 Hide and Pelt Processing Workers
J164.9454 Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

J17.946 Machine Operators and Related Workers in Food, Beverage and Tobacco Processing

- J171.9461 Process Control and Machine Operators, Food and Beverage Processing
- J172.9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
- J173.9463 Fish Plant Workers
- J174.9464 Tobacco Processing Machine Operators
- J175.9465 Testers and Graders, Food and Beverage Processing

J18.947 Printing Machine Operators and Related Occupations

- J181.9471 Printing Machine Operators
- J182.9472 Camera, Platemaking and Other Pre-Press Occupations
- J183.9473 Binding and Finishing Machine Operators
- J184.9474 Photographic and Film Processors

J19.951 Machining, Metalworking, Woodworking and Related Machine Operators

- J191.9511 Machining Tool Operators
- J192.9512 Forging Machine Operators
- J193.9513 Woodworking Machine Operators
- J194.9514 Metalworking Machine Operators
- J195.9510 Welders and Soldering Machine Operators(1)
- J196.9516 Other Metal Products Machine Operators
- J197.9517 Other Products Machine Operators

J2 ASSEMBLERS IN MANUFACTURING

J21.948 Mechanical, Electrical and Electronics Assemblers

- J211.9481 Aircraft Assemblers and Aircraft Assembly Inspectors
- J212.9482 Motor Vehicle Assemblers, Inspectors and Testers
- J213.9483 Electronics Assemblers, Fabricators, Inspectors and Testers
- J214.9484 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
- J215.9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
- J216.9486 Mechanical Assemblers and Inspectors
- J217.9487 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

J22.949 Other Assembly and Related Occupations

- J221.9491 Boat Assemblers and Inspectors
- J222.9492 Furniture and Fixture Assemblers and Inspectors

J223.9493 Other Wood Products Assemblers and Inspectors

- J224.9494 Furniture Finishers and Refinishers
- J225.9495 Plastic Products Assemblers, Finishers and Inspectors
- J226.9496 Painters and Coaters, Manufacturing
- J227.9497 Plating, Metal Spraying and Related Operators
- J228.9498 Other Assemblers and Inspectors

J3 LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

J31.961 Labourers in Processing, Manufacturing and Utilities

- J311.9611 Labourers in Mineral and Metal Processing
- J312.9612 Labourers in Metal Fabrication
- J313.9613 Labourers in Chemical Products Processing and Utilities
- J314.9614 Labourers in Wood, Pulp and Paper Processing
- J315.9615 Labourers in Rubber and Plastic Products Manufacturing
- J316.9616 Labourers in Textile Processing
- J317.9617 Labourers in Food, Beverage and Tobacco Processing
- J318.9618 Labourers in Fish Processing
- J319.9619 Other Labourers in Processing, Manufacturing and Utilities

List of Broad Occupational Categories, Major Groups,
Minor Groups and Unit Groups

FOOTNOTES

1. In the NOC structure produced by Employment and Immigration Canada, there are 16 unit groups which have been combined to form 8 unit groups in the 1991 SOC structure. Users should be aware that data are available for the combined groups only regardless of whether one uses the 1991 SOC or NOC structure.

The combined groups are shown below.

1991 SOC	NOC
A121.0210 Engineering, Science and Architecture Managers	0211 Engineering Managers 0212 Architecture and Science Managers
A141.0720 Facility Operations and Maintenance Managers	0721 Facility Operation Managers 0722 Maintenance Managers
C131.2230 Civil Engineering Technologists and Technicians and Construction Estimators	2231 Civil Engineering Technologists and Technicians 2234 Construction Estimators
D223.3220 Dental Technicians and Laboratory Bench Workers	3223 Dental Technicians 3412 Dental Laboratory Bench Workers
E034.4160 Health and Social Policy Researchers, Consultants and Program Officers	4164 Social Policy Researchers, Consultants and Program Officers 4165 Health Policy Researchers, Consultants and Program Officers
G731.6670 Attendants in Amusement, Recreation and Sport	6443 Amusement Attraction Operators and Other Amusement Occupations 6671 Attendants in Recreation and Sport
G813.6470 Early Childhood Educators and Assistants	4214 Early Childhood Educators 6473 Early Childhood Educator Assistants
J195.9510 Welders and Soldering Machine Operators	7265 Welders 9515 Welding, Brazing and Soldering Machine Operators

ABBREVIATION

n.e.c. = not elsewhere classified

Appendix 4

The Relationship between the 1991 Standard Occupational Classification and the National Occupational Classification

The Relationship Between the 1991 Standard Occupational Classification and the National Occupational Classification

Statistics Canada and Employment and Immigration Canada have developed an integrated system of occupational classifications in the form of two classifications, the 1991 Standard Occupational Classification and the National Occupational Classification.

Structure

The two classifications share a common framework. They each have a hierarchical structure with **unit groups** at the most detailed level, which aggregate into **minor groups** and **major groups** and then into broad occupational categories.

They have 514 unit groups and 139 minor groups in common, and these are the unit and minor groups of the 1991 SOC. The minor groups form 47 major groups in the 1991 SOC and 26 major groups in the NOC. At the very highest level the structures of the two classifications come together again into the same 10 broad occupational categories.

A coding system has been developed for the 1991 SOC that features a two-part numbering system for the unit groups and minor groups which includes the NOC code. This will indicate the place of the group in the NOC skill level/skill type structure and facilitate the grouping of data to the structure of either or both classifications.

Unit Groups

There are 514 unit groups in the SOC and 522 in the NOC. They are identical with the exception of 16 NOC unit groups that could not be implemented by SOC and were collapsed into eight related pairs in the SOC. These collapsed unit groups can be identified easily as the unique final digit of the SOC code for these groups is 0. They are listed in Table 1.

The 514 unit groups which the two classifications have in common, have the same labels and content. Very occasionally, the description of the unit groups may vary slightly but this is only a reflection of the fact that the 1991 SOC is primarily designed for statistical application. In the 1991 SOC and in the NOC, the description of each occupational group explains the characteristics of the group in terms of the principal tasks and duties of the jobs of which it is composed. In the NOC, certain other characteristics of the occupational group, such as entry level educational requirements, are also shown. In general, the example titles shown under the unit groups are the same, but some are unique to each classification. These differences arise because the intended uses of the classifications and therefore the example titles needed, are somewhat different and the fact that the titles are drawn from different sources. The titles shown as examples in the two classifications are listed alphabetically in the indexes which accompany the classifications. Despite these differences in example titles, there is no substantive difference in the content of the shared unit groups of the two classifications.

Table 1. SOC Unit Groups Composed of Collapsed Pairs of NOC Unit Groups

1991 SOC		NOC	
A121.0210	Engineering, Science and Architecture Managers	0211	Engineering Managers
		0212	Architecture and Science Managers
A141.0720	Facility Operation and Maintenance Managers	0721	Facility Operations Managers
		0722	Maintenance Managers
C131.2230	Civil Engineering Technologists and Technicians and Construction Estimators	2231	Civil Engineering Technologists and Technicians
		2234	Construction Estimators
D223.3220	Dental Technicians and Laboratory Bench Workers	3223	Dental Technicians
		3412	Dental Laboratory Bench Workers
E034.4160	Health and Social Policy Researchers, Consultants and Program Officers	4164	Social Policy Researchers, Consultants and Program Officers
		4165	Health Policy Researchers, Consultants and Program Officers
G813.6470	Early Childhood Educators and Assistants	4214	Early Childhood Educators
		6473	Early Childhood Educator Assistants
G731.6670	Attendants in Amusement, Recreation and Sport	6443	Amusement Attraction Operators and Other Amusement Occupations
		6671	Attendants in Recreation and Sport
J195.9510	Welders and Soldering Machine Operators	7265	Welders
		9515	Welding, Brazing and Soldering Machine Operators

Military Unit Groups

The SOC and the NOC also differ in their classification of military personnel. All military personnel are classified solely on the basis of rank to either one of two SOC unit groups: A353.0643 – Commissioned Officers, Armed Forces and G624.6464 – Other Ranks, Armed Forces. On the other hand, the NOC unit groups for military occupations (0643 – Commissioned Officers, Armed Forces and 6464 – Occupations Unique to the Armed Forces) are defined to include only those military personnel whose occupations do not have a civilian counterpart (e.g., infantry officers, artillery soldiers). Those military personnel whose occupations do have a civilian counterpart are classified in the unit group appropriate to the occupation (e.g., dental officers are classified with dentists and military police officers are classified with police officers).

Minor Groups

The content of the 139 minor groups of the 1991 SOC and the NOC, become comparable once the 16 separate groups of the NOC have been collapsed into the 8 and assigned to the minor groups shown in Table 1, with the exception of the different treatment of the military in the respective classifications.

Major Groups and Broad Occupational Categories

The two classifications share the same 10 broad occupational categories. The differences and similarities between the major groups within these categories are illustrated in the tables at the end of this section.

The 26 major groups of the NOC, group the minor groups according to skill level under each broad occupational category. In this way, the NOC major groups divide the 10 broad occupational categories by up to four skill levels that are defined in terms of education, training, experience or inherent talent. This allows for the creation of a skill type (broad occupational categories) by skill level (major groups) matrix to be found in the NOC.

In the 1991 SOC, the minor groups are grouped into 47 major groups. This larger number of major groups occurs particularly in the two broad occupational categories Sales and Service Occupations and Trades, Transport and Equipment Operators and Related Occupations. These categories have large populations in the labour force and it was possible to exploit this to create a significant degree of occupational detail for their major groups. The criterion used to create the major groups of the 1991 SOC is, kind of work performed. Some considerations that were kept in mind when designing the major groups of the SOC was to maximize the occupational detail available at the major group level and at the same time create groups with a population distribution that is as even as possible and have a population minimum sufficient to be used by the census of population for increased geographical detail and cross classifications; to be suitable as detailed classes for the Labour Force Survey, and to serve analytical needs not met by skill level major groups. Some of the major groups of the 1991 SOC are the same as those of the NOC, others are subdivisions of NOC major groups and yet others are quite different groupings of minor groups. The work performed focus and the population criteria used to create these groups resulted in skill type groups, 36 of which are also homogeneous by skill level.

Table A.

1991 SOC

NOC

Management Occupations		Management Occupations	
A0	Senior Management Occupations	00	Senior Management Occupations
A1	Specialist Managers	01-09	Middle and Other Management Occupations
A2	Managers In Retail Trade, Food and Accommodation Services		
A3	Other Managers n.e.c.		

Table B.

1991 SOC

NOC

Business, Finance and Administrative Occupations		Business, Finance and Administrative Occupations	
B0	Professional Occupations in Business and Finance	11	Professional Occupations in Business and Finance
B1	Finance and Insurance Administrative Occupations	12	Skilled Administrative and Business Occupations
B2	Secretaries	14	Clerical Occupations
B3	Administrative and Regulatory Occupations		
B4	Clerical Supervisors		
B5	Clerical Occupations		

Table C.

1991 SOC

NOC

Natural and Applied Sciences and Related Occupations		Natural and Applied Sciences and Related Occupations	
C0	Professional Occupations in Natural and Applied Sciences	21	Professional Occupations in Natural and Applied Sciences
C1	Technical Occupations Related to Natural and Applied Sciences	22	Technical Occupations Related to Natural and Applied Sciences

Table D.

1991 SOC

NOC

Health Occupations		Health Occupations	
D0	Professional Occupations in Health	31	Professional Occupations in Health
D1	Nurse Supervisors and Registered Nurses	32	Technical and Skilled Occupations in Health
D2	Technical and Related Occupations in Health	34	Assisting Occupations in Support of Health Services
D3	Assisting Occupations in Support of Health Services		

Table E.

1991 SOC

NOC

Occupations in Social Science, Education, Government Service and Religion		Occupations in Social Science, Education, Government Service and Religion	
E0	Judges, Lawyers, Psychologists, Social Workers, Ministers of Religion, and Policy and Program Officers	41	Professional Occupations in Social Science, Education, Government Services and Religion
E1	Teachers and Professors	42	Paraprofessional Occupations in Law, Social Services, Education and Religion
E2	Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.		

Table F.

1991 SOC

NOC

Occupations in Art, Culture, Recreation and Sport		Occupations in Art, Culture, Recreation and Sport	
F0	Professional Occupations in Art and Culture	51	Professional Occupations in Art and Culture
F1	Technical Occupations in Art, Culture, Recreation and Sport	52	Technical and Skilled Occupations in Art, Culture, Recreation and Sport

Table G.

1991 SOC		NOC	
Sales and Service Occupations		Sales and Service Occupations	
G0	Sales and Service Supervisors	62	Skilled Sales and Service Occupations
G1	Wholesale, Technical, Insurance, Real Estate Sales Specialists, and Retail, Wholesale and Grain Buyers	64	Intermediate Sales and Service Occupations
G2	Retail Salespersons and Sales Clerks	66	Elemental Sales and Service Occupations
G3	Cashiers		
G4	Chefs and Cooks		
G5	Occupations in Food and Beverage Service		
G6	Occupations in Protective Services		
G7	Occupations in Travel and Accommodation Including Attendants in Recreation and Sport		
G8	Childcare and Home Support Workers		
G9	Sales and Service Occupations n.e.c.		

Table H.

1991 SOC		NOC	
Trades, Transport and Equipment Operators and Related Occupations		Trades, Transport and Equipment Operators and Related Occupations	
H0	Contractors and Supervisors in Trades and Transportation	72-73	Trades and Skilled Transport and Equipment Operators
H1	Construction Trades	74	Intermediate Occupations in Transport, Equipment Operation, Installation and Maintenance
H2	Stationary Engineers, Power Station Operators and Electrical Trades and Telecommunications Occupations	76	Trades Helpers, Construction Labourers and Related Occupations
H3	Machinists, Metal Forming, Shaping and Erecting Occupations		
H4	Mechanics		
H5	Other Trades n.e.c.		
H6	Heavy Equipment and Crane Operators Including Drillers		
H7	Transportation Equipment Operators and Related Workers, Excluding Labourers		
H8	Trades Helpers, Construction, and Transportation Labourers and Related Occupations		

Table I.

1991 SOC		NOC	
Occupations Unique to Primary Industry		Occupations Unique to Primary Industry	
I0	Occupations Unique to Agriculture Excluding Labourers	82	Skilled Occupations in Primary Industry
I1	Occupations Unique to Forestry Operations, Mining, Oil and Gas Extraction, and Fishing, Excluding Labourers	84	Intermediate Occupations in Primary Industry
I2	Primary Production Labourers	86	Labourers in Primary Industry

Table J.

1991 SOC		NOC	
Occupations Unique to Processing, Manufacturing and Utilities		Occupations Unique to Processing, Manufacturing and Utilities	
J0	Supervisors in Manufacturing	92	Processing Manufacturing and Utilities Supervisors and Skilled Operators
J1	Machine Operators in Manufacturing	94-95	Processing and Manufacturing Machine Operators and Assemblers
J2	Assemblers in Manufacturing		
J3	Labourers in Processing, Manufacturing and Utilities	96	Labourers in Processing, Manufacturing and Utilities

The Coding System

The coding system of the 1991 SOC has been designed to facilitate the use of the structure of either or both classifications. Census of population data released on the basis of the 1991 SOC carries the two part number, which gives users the opportunity to group the data to either the major groups of the 1991 SOC or to the major groups of the NOC or both.

The coding system of the occupational groups of the 1991 SOC are such that, within each broad occupational category, one or more major groups are identified; within each major group, one or more minor groups are identified and within each minor group, one or more unit groups are identified. The functional relationship is reinforced by means of the coding system. For example:

A	Management Occupations
A0	Senior Management Occupations
A01.001	Legislators and Senior Management
A011.0011	Legislators

It should be noted that in the 1991 SOC structure, the broad occupational category code is designated by a capital letter. The major group is designated by the same letter and one digit. For the minor and unit groups, a two-part numbering system has been adopted. The first part of their codes, follows the structure of 1991 SOC. The minor group carries the code of the 1991 SOC major group to which it belongs, with one additional digit. The unit group carries the code of the 1991 SOC major group to which it belongs, followed by two additional digits, the first being that of the minor group to which it belongs. After the dot is the actual NOC code.

In the NOC, the broad occupational categories carry the numbers 0 to 9. The coding system of the NOC follows the hierarchical structure of the classification in a manner similar to that of the 1991 SOC. For example:

0	Management Occupations
00	Senior Management Occupations
001	Legislators and Senior Management
0011	Legislators

In the example given above, the two classifications follow identical structures. However, in most instances the major groups of the two classifications differ. As this results in different structures and different codes for the minor and unit groups, a two-part numbering system that incorporates the NOC codes, has been adopted for the 1991 SOC.

For example, in the case of the unit group: G612.6262 - Fire-fighters; G6 indicates the 1991 SOC major group, to which it belongs, Occupations in Protective Services and 62 indicates that it belongs to the major group, Skilled Sales and Service Occupations, in the NOC structure. As the coding system of the major groups of the NOC reflects their skill levels, with the exception of the management occupations, the second digit of the NOC code indicates to which of the four skill levels of the NOC the unit or minor group belongs. This is illustrated in Table G of the previous section.

The 1991 SOC and the 1980 SOC are Published by Statistics Canada

Standard Occupational Classification 1991

Catalogue Nos. 12-565E and 12-565F

Price: Canada: \$80.00 United States: \$96.00 Other Countries: \$112.00

Standard Occupational Classification 1980

Catalogue Nos. 12-565E and 12-565F

Price: Canada: \$60.00 United States: \$72.00 Other Countries: \$84.00

Available from: Marketing Division
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Statistics Canada
Ottawa, Ontario
K1A 0T6
Telephone: (613) 951-7277
Toll Free
Order Only Line: 1-800-267-6677
Fax: (613) 951-1584

Concordance Tables between the 1991 SOC and the 1980 SOC

Concordance tables showing the classification relationships between the 1991 SOC and the 1980 SOC are included in the 1991 SOC Manual. The concordances are also available in machine-readable form directly from the Standards Division of Statistics Canada. Telephone (613) 951-8576, Fax (613) 951-8576.

The National Occupational Classification Has Been Published by Employment and Immigration Canada

Catalogue No. MP53-25/1-1993E Price: Canada: \$89.99 Outside Canada: \$117.00

Available from: Canada Communication Group Publishing
Ottawa, Ontario K1A 0S9
Telephone, for orders only: (819) 956-4802
Fax: (819) 994-1498

Further Information

Further information about the SOC 1991 and the SOC 1980 and the availability of various classification components and related products in machine-readable form can be obtained from:

Standards Division
Statistics Canada
Jean Talon Bldg
8th floor, Section D-8
Ottawa, Ontario
K1A 0T6
Telephone: (613) 951-8576
Fax: (613) 951-8576

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Ottawa: Supply and Services Canada, 1991 Census of Canada.

Catalogue Number 92-305E.

Statistics Canada. *Standard Occupational Classification 1991,*

Ottawa: Minister of Industry, Science and Technology, 1993.

Catalogue Number 12-565E.

Regional Reference Centres

Statistics Canada's regional reference centres provide a full range of census products and services. Each reference centre is equipped with a library and a sales counter where users can consult or purchase publications, microcomputer diskettes, microfiche, maps and more.

The staff of the regional reference centres provides consultative and research services in addition to providing after-sales service and support, including seminars and workshops on the use of Statistics Canada information.

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A1B 3P2

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Fax number: (709) 772-6433

Advisory Services
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North American Life Centre
1770 Market Street
Halifax, Nova Scotia
B3J 3M3

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Local calls: (902) 426-5331
Fax number: (902) 426-9538

Quebec Region

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200 René Lévesque Blvd. W.
Guy Favreau Complex
Suite 412, East Tower
Montréal, Quebec
H2Z 1X4

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Fax number: (514) 283-9350

National Capital Region

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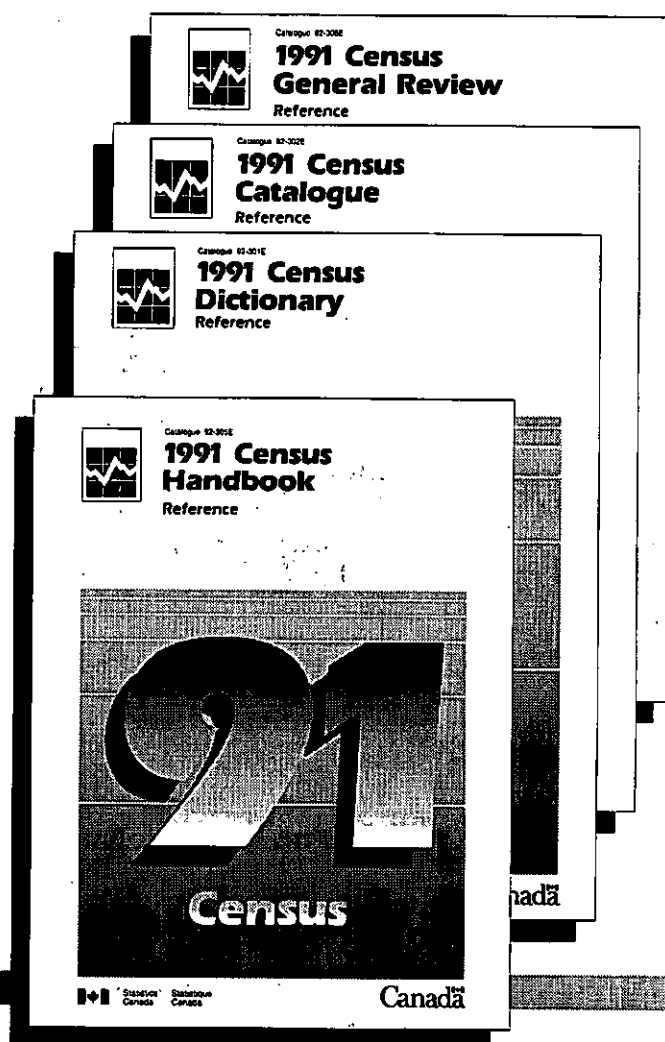
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