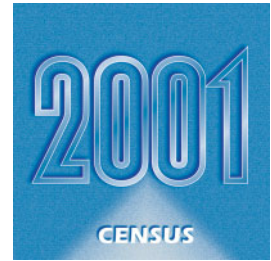




Catalogue No. 92-391-XIE

**Industry (Based on the 1980 Standard
Industrial Classification [SIC])**

2001 Census Technical Report



ELECTRONIC PUBLICATIONS AVAILABLE AT
www.statcan.ca



2001 Census Technical Report

Industry (Based on the 1980 Standard Industrial Classification [SIC])

	Page
INTRODUCTION	2
1. DATA COLLECTION AND COVERAGE	3
1.1 Collection Methods	3
1.2 Special Coverage Studies	3
1.3 Questionnaire and Instructions.....	4
2. DATA PROCESSING	5
2.1 Regional Processing.....	5
2.2 Imaging.....	6
2.3 Interactive Verification	6
3. AUTOMATED CODING	8
3.1 Batch Coding	8
3.2 Bulk Coding and Single Coding.....	9
3.3 Quality Control.....	9
4. EDIT AND IMPUTATION	10
4.1 General.....	10
4.2 Pre-processing.....	10
4.3 Processing.....	11
4.3.1 Imputation.....	11
4.3.2 Deterministic Edits.....	12
5. DATA QUALITY MEASUREMENT	13
5.1 General.....	13
5.2 Non-response	13
5.3 Data Adjustments	14
6. HISTORICAL COMPARABILITY	16
7. CONCLUSION	17
APPENDICES	
Appendix A. Glossary of Terms	18
Appendix B. Tables.....	20
Appendix C. 2001 Census Products and Services	66

Introduction

The 2001 Census required the participation of the entire population of Canada, i.e. some 30 million people distributed over a territory of 9 million square kilometres. An endeavour of this magnitude represented a tremendous challenge. Although there are high quality standards governing the collection and processing of the data, and in spite of efforts aimed at reducing non-response, for example through the use of communications, it is not possible to eliminate all errors. While this term does not necessarily imply any mistake as such, some element of error is bound to result in view of decisions to control census costs.

Statistics Canada is committed to explaining the methods and concepts used to collect and process its data and to providing users with information on the quality of the data produced, as well as other data characteristics which might limit their usefulness or interpretation. This report is aimed at informing users on the complexity of the data and on any difficulties that could affect their use. It explains the theoretical framework and the definitions used to gather the data, and describes unusual circumstances that could affect data quality. Moreover, the report touches upon data capture, edit and imputation, and deals with the historical comparability of the data.

The **2001 Census Technical Reports Series** includes 16 reports covering the variables of the 2001 Census of Population, as well as *Coverage* and *Sampling and Weighting*.

This report deals with the Industry variable on an SIC80 basis. It has been prepared by Judy Hosein, with the support of staff from Labour Statistics Division, Census Operations Division and the Social Survey Methods Division.

Users will find additional information on census concepts, variables and geography in the *2001 Census Dictionary* (Catalogue No. 92-378-XIE), and an overview of the complete census process in the *2001 Census Handbook* (Catalogue No. 92-379-XIE).

1. Data Collection and Coverage

This stage of the census process ensures that each of the 11.8 million households in Canada is enumerated. The census enumerates the entire Canadian population, which consists of Canadian citizens (by birth and by naturalization), landed immigrants, and non-permanent residents, together with family members who live with them. Non-permanent residents are persons living in Canada who have a Minister's permit, a student or employment authorization, or who are claiming refugee status, and family members living with them.

The census also counts Canadian citizens and landed immigrants who are temporarily outside the country on Census Day. This includes federal and provincial government employees working outside Canada, Canadian embassy staff posted to other countries, members of the Canadian Armed Forces stationed abroad, and all Canadian crew members of merchant vessels. Because people outside the country are enumerated, the Census of Canada is considered a modified *de jure* census.

1.1 Collection Methods

To ensure the best possible coverage, the country is divided into small geographic areas called enumeration areas (EAs). Each census representative is responsible for at least one EA. The optimal number of households in an EA ranges from 175 in rural areas to 600 in urban areas. In the 2001 Census, there were 42,851 enumeration areas in Canada, and 38,000 people were engaged in collecting the data.

In 2001, approximately 98% of households were self-enumerated. Self-enumeration requires that a census representative drop off a questionnaire at each household during the two weeks before Census Day. An adult or responsible member of the household is asked to complete the questionnaire for all members of the household, and then mails the questionnaire in a pre-addressed envelope.

Approximately 2% of households were enumerated in the 2001 Census using the canvasser enumeration method. In this case, a census representative visits the household and completes a questionnaire for the household by interview. This method is normally used in remote and northern areas of the country, and on most Indian reserves. The canvasser enumeration method is also used in certain urban areas where it is considered highly possible that respondents would be unlikely to return a questionnaire.

1.2 Special Coverage Studies

Since 100% coverage is virtually impossible with such a large survey, a number of checks are performed on the collection of data. These studies measure the extent of coverage errors that occur when dwellings or individuals are missed, incorrectly included or double-counted. These checks are the Vacancy Check, the Reverse Record Check and the Overcoverage Study. These studies are discussed in the 2001 Census Technical Report on *Coverage* (Catalogue No. 92-394-XIE), planned for release in December 2004.

1.3 Questionnaire and Instructions

Remember, these questions are only for persons aged 15 and over.	
<p>Note: Questions 40 to 48 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, 2000. If this person held more than one job last week, answer for the job at which he/she worked the most hours.</p> <p>40 For whom did this person work? <i>For self-employed persons, enter the name of their business. If the business does not have a name, enter the person's name.</i></p>	<p>55. <input type="text"/></p> <p>Name of firm, government agency, etc. 01 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>Section, plant, department, etc. (if applicable) 02 <input type="text"/> <input type="text"/></p>
<p>41 What kind of business, industry or service was this? Please be specific. For example:</p> <ul style="list-style-type: none"> • road maintenance • secondary school • municipal police • wheat farm • retail shoe store • temporary help agency • full-service garage • trapping 	<p>Kind of business, industry or service 03 <input type="text"/> <input type="text"/> <input type="text"/></p> <p>04 <input type="text"/><input type="text"/><input type="text"/><input type="text"/></p>

2. Data Processing

This part of the census process involved the processing of all the completed questionnaires, from the data capture of the information through to the creation of an accurate and complete retrieval database. The final database was transferred to the Data Quality Measurement Project to determine the overall quality of the data, and to the Dissemination Project for the production and marketing of the 2001 Census products and services. A new objective for 2001 was to create an image retrieval system giving access to the images (pictures) of all the census questionnaires and visitation records, so that subsequent processes requiring access to original census forms would not have to handle the thousands of boxes and paper documents, as in previous censuses.

2.1 Regional Processing

Regional Processing was responsible for the manual coding of the industry and occupation responses and the data capture of the questionnaire information into a machine-readable format for subsequent processing systems. Given the enormous volume of census questionnaires and information to be captured (representing over 4 billion keystrokes), Regional Processing has been contracting this work out since 1981 to the Canada Customs and Revenue Agency (CCRA), formerly called Revenue Canada. By using the trained staff and infrastructure already in place at CCRA, the census realized cost savings by partnering with another government agency. For the 2001 Census, approximately 2,800 CCRA employees were sworn to secrecy under the *Statistics Act* to perform the census work, under the same rules and regulations as those which apply to the employees of Statistics Canada.

When the collection activities for a specific enumeration area (EA) were completed, the questionnaires, along with their maps and visitation records, were shipped in EA boxes from the field collection units to one of eight designated CCRA tax centres across the country.

The first step was to prepare the completed questionnaires for data capture. This traditionally included the manual assignment of codes to written answers that were provided by the respondents. For 2001, most of the written responses were converted to codes using automated systems (see Section 3). The only written responses that had to be manually coded for the 2001 Census were the questions on industry and occupation contained in the long-form questionnaires. Research into the automation of the coding of these questions has begun, and it is expected that an automated system will be operational for the 2006 Census.

The industry responses were coded at CCRA according to the North American Industry Classification System (NAICS), which was introduced as a standard within Statistics Canada a few years ago. NAICS is designed to provide a common framework for Canada, the United States and Mexico, which will enable the production of industry statistics under the North American Free Trade Agreement (NAFTA). This meant a change for industry coding - in 1996, industry was coded using the 1980 Standard Industrial Classification (SIC). In order to allow longitudinal comparisons, the 2001 industry question was also coded using the 1980 SIC during the Automated Coding phase (see Section 3). This phase was carried out with more automated means than in previous censuses.

Once the questionnaires were received and registered at one of the CCRA tax centres, and the industry and occupation codes assigned, the next step was to sort, label and batch the questionnaires in preparation for data capture. The labels affixed to each questionnaire contained a unique sequence number that was used to control the movement of the questionnaire throughout the CCRA operations. For the first time, the label also included a bar code to facilitate the scanning of the questionnaire in the imaging operation (see Section 2.1.2).

Data capture was then performed by traditional manual keying at mainly mainframe terminals. Verification of the accuracy of the data capture operation was done by selecting a sample of questionnaires that were

already key-entered and capturing the information from the questionnaires in this sample a second time. Quality control statistics were produced by comparing the two sets of captured information.

As the data were keyed, they were transmitted in real time over dedicated communication lines to the CCRA computer in Ottawa. Within 24 hours, the data were then transferred to tape cartridges and transported by bonded carrier to Statistics Canada, where they were loaded into the mainframe computer. Questionnaires were reassembled into their EA boxes for shipment to Statistics Canada's 2001 processing site in Ottawa.

2.2 Imaging

In previous censuses, the remaining processing steps that required access to the questionnaires and visitation records used the paper documents. For 2001, the need to handle the paper was eliminated by imaging (scanning) all the questionnaires and visitation records as soon as they arrived at the 2001 processing site from the CCRA tax centres. Subsequent operations then had access to the questionnaires and visitation record images, using an image retrieval system, rather than using the paper documents.

As the EA boxes arrived at the 2001 processing site, they were registered. Then, the documents were prepared for imaging. Since the questionnaires and visitation records were in booklet format, they had to be cut into separate sheets in order to be run through the scanners. Following the cutting, since the 2A questionnaire was actually two booklets glued together (one English and the other French), the unused portion had to be separated from the completed portion. Extra material that was included with the questionnaires was removed (e.g., paper clips, notes). The questionnaires were then batched by EA for imaging.

The 13 million documents were imaged using 15 high-volume scanners running five days a week, two shifts per day. The geographic identifier that was required to identify each document image was automatically assigned using the bar code on the label affixed during the data-capture operations at CCRA (see Section 2.1.1). Quality control was performed to ensure that each document contained the right number of pages, and that the number of questionnaires by form type was correct for each EA. A problem-resolution operation resolved any problems that arose. The images were then written to optical platters for subsequent access and archiving. As the questionnaires were scanned, their images were also kept in magnetic storage for immediate access by the Interactive Verification activities (see Section 2.1.3).

The images on the optical platters are being kept in a secure location and are only accessible to authorized Statistics Canada employees from within the secure location.

2.3 Interactive Verification

The main objective of Interactive Verification was to identify and correct errors in the data, for which proper resolution required reference to the images of the questionnaires and/or visitation records. A detailed set of edits was applied to the captured data to identify possible errors, such as households with missing or duplicate persons, incorrect enumeration of foreign or temporary residents, questionnaires assigned to the wrong household, or misclassification of households as occupied or unoccupied. A thorough review of the information on all relevant census forms was conducted to determine the appropriate corrective action for each edit failure. In some cases, this required adding and/or deleting persons or dwellings; consequently, this process had an impact on the census counts.

As the census data arrived on cartridges from CCRA, they were loaded into Statistics Canada's computers, ready for the Interactive Verification activities. A series of automated "structural" edits were performed, mainly to verify the information filled out by the Census Representative on the front cover of

the questionnaire. These edits included, among other things, matching questionnaire and household types, cross-checking the number of questionnaires and people enumerated, and verifying that the geographic identifiers were unique. Some edits were also performed on the income information, so that anomalies could be extracted and examined by income subject-matter experts.

All edits were done by EA. Errors were flagged, and then corrected by referring to the images of the questionnaires and visitation record for that EA. The corrections were made to the electronic data using an interactive PC-based system. Some of the corrections were also noted on the questionnaire images, using a process commonly called "annotation".

Once the EA edits were completed, automated and manual processes were used to verify the block number that the Census Representative had copied from the EA map onto the questionnaire and visitation record.

A National Block Program has been implemented for the first time in 2001. A "block" is basically the smallest area bounded by streets or roads, lakes and rivers. In urban centres, "blocks" are generally recognizable city blocks. In rural areas, "blocks" are much larger areas, but are still bounded by identifiable features, with no significant feature splitting an area. These blocks are added together to create the EAs for data collection purposes, and the dissemination areas (DAs) for the dissemination of census products and services.

During the field collection operations, as census representatives delivered a questionnaire to each dwelling within their EA, they wrote the person's name (if possible) and the address in their visitation records (VRs). At the same time, they copied the VR line number from the VR onto the questionnaire, to uniquely identify the questionnaire for that dwelling. As well, they identified the block number for the dwelling from their EA map and copied the number into the VR and onto the questionnaire. These block numbers were data-captured, so that all the dwellings in Canada could be identified as belonging to a particular block.

As a final step in the Interactive Verification process, the data were reformatted and forwarded for the final processing steps, namely Automated Coding and Edit and Imputation.

Interactive Verification also performed some special processing to ensure that Canadians living outside Canada on Census Day (people aboard coast guard and Canadian Armed Forces vessels, Canadian-registered merchant vessels, and diplomatic and military personnel) were enumerated.

3. Automated Coding

Automated coding matched the write-in responses that were "data-captured" from the long-form questionnaires during Regional Processing (see Section 2.1.1) to entries in an automated reference file/classification structure containing a series of words or phrases and corresponding numerical codes. Although a large percentage of write-in responses can be coded in a purely automated manner, a series of responses always remains unmatched. Specially trained coders and subject-matter experts reviewed all unmatched responses and, with the assistance of PC-based interactive coding systems, assigned the appropriate numerical code after examining responses to other questions and from other members of the household. Automated coding was applied to write-in responses for the following questions on the long form (2B):

- relationship to Person 1;
- home language;
- non-official languages;
- first language learned in childhood (mother tongue);
- language of work (new in 2001);
- place of birth;
- place of birth of parents (new in 2001);
- citizenship;
- ethnic origin (ancestry);
- population group;
- Indian Band/First Nation;
- place of residence 1 year ago;
- place of residence 5 years ago;
- major field of study;
- religion (last asked in 1991);
- place of work;
- industry according to the 1980 SIC (first time for automated coding in 2001).

To reach the objective of coding industry data according to the 1980 Standard Industrial Classification (SIC80), the write-in responses on the census questionnaires were translated into numeric industry codes by an *Automated Coding by Text Recognition software* (ACTR). Three sub-operations are required: Batch Coding, Bulk Coding and Single Coding. Industry codes were obtained from an online reference manual system that included two main references: the List of Establishments (LOE)¹ and the Industrial Coding Manual (ICM).²

3.1 Batch Coding

During Batch Coding, ACTR assigns an industry code by matching the parsed write-in responses from Questions 40 and 41 to similar phrases in the reference files. A code is assigned if a perfect match is found between the parsed write-in response and the parsed reference file (direct matching). For imperfect matches, a scoring algorithm is used to assign the most likely code (indirect matching).

¹ The List of Establishments is a list derived from Statistics Canada's central database of companies operating in Canada. It contains company names and the associated SIC codes. The LOE uses the same industrial classification as the Industrial Coding Manual, and it was the first manual searched by coders.

² The ICM is arranged in the same format as the 1980 SIC Manual, with the Classified Index followed by a more descriptive Analytical Section and finally an Alphabetical Listing of all industry descriptions. However, the ICM has been augmented by thousands more industry titles than were included in the original 1980 SIC manual. In addition, the ICM has some modified coding instructions and some modified codes to reflect the coding level (principally four-digit) used for census coding. Coders were instructed to search for descriptions in the Analytical Section before using the alphabetical list, since this section contained cautions and instructions on industry coding.

3.2 Bulk Coding and Single Coding

The second phase of coding is Bulk Coding. Bulk coding is an interactive coding tool to supplement the batch coding operation. It allows the assignment of a single code to multiple responses. For bulk coding to work successfully, homogenous work units must be created by grouping together records with similar characteristics such as Name of Firm. Records that could not be assigned a code in bulk coding were coded in single coding.

3.3 Quality Control

The quality control for coding was carried out during bulk and single coding, involving four sub-operations: general coding, referral coding, quality control coding and adjudication coding.

In general coding, write-in responses to Questions 40 and 41 were converted into numeric codes by general coders, using standard reference materials. Responses that could not be coded in general coding were sent to referral coding. The referral coder determined the appropriate code using additional reference materials (i.e. telephone books, city directories, etc.).

Quality control coding was carried out in general coding. A sample of write-in responses on the 2B, 2C, 2D and 3B questionnaires were recoded by quality control (QC) coders. Any discrepancies between the codes assigned by the general coders and the codes assigned by the QC coder were sent to adjudication coding where adjudication coders decided on the final code. If an appropriate code could not be found, the records were then flagged for imputation.

Only responses that were coded by the general coders were subjected to quality control. Responses coded in referral coding and adjudication coding were considered to be final. Referral coders were employees with expert knowledge on industry coding. The adjudication coders were selected from the general coder population on the basis of having achieved a coding error rate of 10% or less.

As the responses for a particular variable were coded, the data for that variable were sent to the Edit and Imputation phase.

4. Edit and Imputation

4.1 General

The data collected in any survey or census contain omissions or inconsistencies. These errors can be the result of respondents answering the questions incorrectly or incompletely, or they can be due to errors generated during processing. For example, a respondent may be reluctant to answer a question, may fail to remember the right answer or may misunderstand the question. Census staff may code responses incorrectly or may make other mistakes during processing.

Prior to Edit and Imputation, the questionnaires underwent some basic manual edits during collection. Field staff reviewed the questionnaires for missing responses or unacceptable multiple responses. Such problems were resolved by contacting the respondents and obtaining the required information. Following collection, Interactive Verification (see Section 2.1.3) performed some basic structural edits, where the images of the questionnaires and visitation records were referenced as necessary.

The final clean-up of the data was done in Edit and Imputation and was, for the most part, fully automated. It applied a series of detailed edit rules that identified any missing or inconsistent responses. These missing or inconsistent responses were corrected most of the time by changing the values of a few variables as possible through imputation. Imputation invoked "deterministic" and/or "minimum-change 'hot deck'" methods. For deterministic imputation, errors were corrected by inferring the appropriate response value from responses to other questions. For minimum-change "hot deck" imputation, a record with a number of characteristics in common with the record in error was selected. Data from this "donor" record were borrowed and used to change the minimum number of variables necessary to resolve all the edit failures.

Two different automated systems were used to carry out this processing.

The **N**earest-neighbour **I**mputation **M**ethod (NIM), developed for the 1996 Census to perform Edit and Imputation for basic demographic characteristics such as age, sex, marital status, common-law status and relationship to Person 1, was expanded for 2001 and implemented in a system called CANCEIS (**C**ANadian **C**ensus **E**dit and **I**mputation **S**ystem) to include Edit and Imputation for such variables as labour, place of work, mode of transportation and mobility. As in 1996, CANCEIS continued to allow more extensive and exact edits to be applied to the response data, while preserving responses through minimum-change "hot deck" imputation.

SPIDER (**S**ystem for **P**rocessing **I**nstructions from **D**irectly **E**ntered **R**equirements) was used to process the remaining census variables, such as mother tongue, dwelling and income. This tool translated subject-matter requirements, identified through decision logic tables, into computer-executable modules. SPIDER performed both deterministic and "hot deck" imputation.

4.2 Pre-processing

At the pre-processing stage, a dispatch file containing the captured 2001 Census questionnaire information was transferred to subject-matter specialists for review. Whenever there was a particular code that required examination, it was always possible to examine all responses for this code to identify coding errors, or errors of omission, i.e. instances where a code could have been assigned but was not. An Edit and Imputation (E&I) base is then created containing all records, including those that were subsequently recoded through a process of expert coding.

In 2001, the E&I base was created on the basis of the NAICS coding operation. The processing of the SIC80 based data did not have a pre-processing stage per se. Instead, an extra field containing the SIC80 codes was added to the existing E&I (NAICS) database. The SIC codes were then examined for

coding error in a manner similar to the NAICS-based process. Changes resulting from expert recoding were then implemented at the deterministic fix or post-processing stage. This is a departure from the traditional approach of implementing expert recoding changes at the pre-processing stage. Table B1 summarizes the major “expert coding” changes done for the Industry variable. Almost 27,000 unweighted records, representing 0.8% of the codeable universe, were affected by this process.

4.3 Processing

At the Edit and Imputation stage, the E&I data were further processed to (i) provide representative industry values for respondents who did not answer the industry questions but should have, and (ii) to edit the data in order to avoid conflicting responses. The two main Edit and Imputation modules are Imputation and Deterministic Edits.

4.3.1 Imputation

In 2001, CANCEIS was used for the first time to impute data. This was a change from 1996 when SPIDER was used to process the LABOUR data. The main benefits of converting to CANCEIS were:

- (a) We would have greater flexibility in the choice of donor. For example, we could use 1996 data to develop edit rules to ensure that outliers (rare combinations of industry and occupation) were not used as donors, and/or we could use occupation at the detailed level as a matching criterion when imputing industry.
- (b) We could better assess the results of imputation by analyzing the input and output files of CANCEIS for various processes.
- (c) The quality of the donor can be better measured in terms of GOOD/BAD relations.
- (d) CANCEIS imputation guarantees that a donor could be found rather than assigning a default value when a donor could not be found.

Imputation was required for industry if a record met at least one of the following criteria:

- (i) the respondent was identified as having worked since January 1, 2000, but no industry code was assigned; and
- (ii) the code assigned was 888, indicating that the response was too vague to be coded.

Blank, uncodable and inconsistent responses were imputed simultaneously using a single donor. Imputation was achieved by matching the characteristics of the “bad” record to those of “good” records known as donors. The donor record had to come from records with a similar set of population characteristics as the bad record. Auxiliary matching constraints such as occupation, age and highest level of schooling were also specified in CANCEIS.

Of the bad records, 73.2% were imputed from perfect donors (matched on all auxiliary constraints). Further analysis was conducted on the imputed data to:

- (1) assess whether the imputed population was comparable to that of the donor population, and
- (2) examine the impact of the imputed data on the overall industry distributions.

Comparisons between the donor and the imputed populations indicate that the structure of the imputed population is quite similar to that of the donor pool. 5.8% of all industry code assignments were imputed to records that were originally blank, invalid or not stated, resulting in a negligible impact on the codeable universe.

Table B2 shows the population distributions before and after imputation.

4.3.2 Deterministic Edits

After imputation, deterministic edits were applied to the data to eliminate inconsistent or improbable combinations of industry, occupation and class of worker responses. The basic methodology used in previous censuses was maintained.

The edits involving industry were of two basic types: industry changed due to inconsistencies with Occupation and/or Occupation and Class of Worker combined.

These responses could not have been corrected in the normal edit processes because there are no cross-sectional edits in the labour module. Where there were conflicts between the edit specification and the pattern in the write-in file, corrective action involved re-writing of the industry codes to reflect the patterns found in the write-in file.

Table B3 shows the population distributions before and after deterministic edits. A total of 40,678 records were changed as a result of deterministic edits and expert coding changes, representing 1.2% of the codeable universe.

5. Data Quality Measurement

5.1 General

Throughout the census-taking process, every effort was made to ensure high-quality results. Rigorous quality standards were set for data collection and processing, and the Public Communications Program assisted in minimizing non-response. A Data Quality Measurement Program was established to provide users with information on the quality and limitations of census data.

Although considerable effort is made throughout the entire process to ensure high standards of data quality, the resulting data are subject to a certain degree of inaccuracy. To assess the usefulness of census data for their purposes and to understand the risk involved in drawing conclusions or making decisions on the basis of these data, users should be aware of their inaccuracies and appreciate their origin and composition.

Within the **2001 Census Technical Reports Series**, users will find detailed 2001 Census information on *Coverage* and *Sampling and Weighting*. These two reports are scheduled to be released in November and December 2004 respectively.

5.2 Non-response

The non-response rate is the number of respondents who did not respond to the industry questions expressed as a percentage of the codeable universe. Tables B4 and B5 summarize the non-response rates by document type, province and sex, for the 1996 and 2001 Censuses.

Before edit and imputation, an additional 10,082 industry codes were assigned to respondents whose write-in responses did not meet the minimum level of detail required for automated processing. Since non-response rates are based on those respondents for whom a code was not assigned, there is an obvious data quality benefit in being able to code responses that did not meet the minimum requirements of automated processing, but could still be coded manually using expert judgement. This activity reduced the unweighted non-response rate from 5.3% to 6.7%.

Highlights:

Non-response rates are higher in 2001 than in 1996. For Canada, the unweighted non-response rates increased from 5.3% to 6.7%.

Significant differences in non-response rates continue to be a salient feature of the provincial data. In 2001, non-response rates ranged from 11.0% (Yukon) to 5.3% (Nova Scotia and Newfoundland). Non-response rates among the provinces were also uneven from a historical perspective. Between 1996 and 2001, the non-response rate decreased by -0.2 percentage points in Nova Scotia and increased by as much as 3.9 percentage points in the Yukon.

In terms of document types, the occupied private 2B questionnaire continued to show the best non-response rate (6.0%) in a similar pattern to 1996. The 2C and 2D individual questionnaires had higher non-response rates of 6.1% and 13.0%, respectively. The collective versions of the 2B and 2D questionnaires had the worst non-response rates. The collective household 2D questionnaire had a non-response rate of 23.0% and the collective household 2B form had a non-response rate of 26.0%.

In reviewing the non-response rates based on sex, there is a slightly higher rate for males (6.8%) than for females (6.5%). This is a reversal from 1996, when the non-response rates for males and females were 4.4% and 5.3%, respectively.

There are also significant differences in non-response rates for males and females by form type. This is particularly evident in collective 2D forms, where the non-response rates for Canada were 19.5% for males and 29.0% for females. Provincially, the non-response rates ranged from 63.4% (Alberta) to 0.0% for males and from 43.0% (British Columbia) to 0.0% for females.

5.3 Data Adjustments

The impact of changes to the data as a result of specific processing stages is presented in Table 1 below. In 2001, there were more records that required imputation - and therefore higher imputation rates - than in the previous census. This effect is mainly due to higher non-responses rates in 2001.

Table 1. Indicators of Change Based on Unweighted 1996 and 2001 Census Data (%)

Census Year	Total Records Added	Expert Coding Additions	Imputation Additions	Deterministic Additions	Net Movement (excluding imputation)
2001	6.2	..	5.8	1.2	-0.1
1996	6.3	1.4	4.6	0.2	-0.1

However, as can be seen from the “Net Change” column, the overall effect of all our processing (excluding imputation additions) in 2001 is a marginal decrease in the codeable universe. This reflects exclusions of (1) persons under 15, (2) those identified as retired and (3) those identified as having worked before January 1 of the previous year (or never).

Table B6 presents the net effect of all processing by industry. Overall, 12 out of 285 industries experienced significant universe changes - that is, changes that are greater than 10%. Sectors with the largest universe changes during processing are 331 - Small Electrical Appliance Industry (29.7%), 338 - Communication, Energy Wire and Cable Industry (-32.0%), 422 - Structural and Related Work (35.6%), 429 - Other Trade Work (-55.6%) and 692 - Direct Sellers (51.2%).

331 - Small Electrical Appliance Industry

Population changes occurred primarily as a result of expert re-coding. Assembly and inspection occupations in Electrical appliance, apparatus and equipment manufacturing occupations were originally miscoded to 338 - Communications, Energy Wire and Cable Industry.

338 - Communication, Energy Wire and Cable Industry

Changes to the population counts in this industry group reflect the reassignment of blanks and invalids during imputation.

429 and 422 - Construction

Construction activities are difficult to code. Census respondents do not generally provide sufficient information to code these establishments in great detail. There were a number of miscodes to SIC 429 - Other Trade Work industry which were subsequently correctly through expert recoding. For example, carpenters were coded to this industry instead of SIC 422 - Structural and Related Work. The changes in universe to SIC 422 - Structural and Related Work Industries are primarily due to expert recoding. In particular, carpenters and ironworkers who were mistakenly coded to other industries were recoded to this industry.

692 - Direct Sellers

Changes in population counts were mostly due to expert re-coding. Other elemental sales and service occupations were erroneously coded to 779 - Other Business Services and 962 - Motion Picture Exhibition industries.

6. Historical Comparability

Table B7 compares detailed historical data for the worked since January 1 universe, from 1991-2001. There are no major anomalies to report.

7. Conclusion

In 2001, industry coding was automated for the first time. Minor problems were encountered during economic coding, and these were subsequently rectified in due course through expert coding and deterministic fixes. Industry data under the SIC80 classification was found to be of acceptable quality.

Appendix A. Glossary of Terms

The definitions of census terms, variables and concepts are presented here as they appear in the *2001 Census Dictionary* (Catalogue No. 92-378-XIE). Users should refer to the *2001 Census Dictionary* for full definitions and additional remarks related to any concepts, such as information on direct and derived variables and their respective universe.

Labour Market Activities:

Industry (based on the 1980 Standard Industrial Classification [SIC])

Part A – Plain Language Definition

General nature of the business carried out in the establishment where the person worked. The 2001 Census data on **industry (based on the 1980 SIC)** can be compared with data from the 1986, 1991 and 1996 Censuses.

Part B – Detailed Definition

Refers to the general nature of the business carried out in the establishment where the person worked. If the person did not have a job during the week (Sunday to Saturday) prior to enumeration (May 15, 2001), data relate to the job of longest duration since January 1, 2000. Persons with two or more jobs were to report the information for the job at which they worked the most hours.

The variable "Industry (based on the 1980 Standard Industrial Classification)" permits direct comparisons between 1986, 1991, 1996 and 2001 Census industry data.

Censuses: 2001 (1/5 sample), 1996 (1/5 sample), 1991 (1/5 sample), 1986 (1/5 sample)

Reported for: Population 15 years of age and over, excluding institutional residents, who worked since January 1, 2000

Question Nos.: Coded variable: Questions 40 and 41

Responses: The industry questions request write-in responses indicating for whom the respondents worked (their employer) and the kind of business or service offered by this employer. The census coders assigned an industry code from these responses, based on the 1980 Standard Industrial Classification.

Remarks: The 2001 industry data can be tabulated for a number of populations, among which the most frequently used are:

- (a) the employed;
- (b) the experienced labour force – persons who were either employed or unemployed in the reference week but who had worked since January 1, 2000;
- (c) those who have worked since January 1, 2000, regardless of whether or not they were in the labour force in the reference week.

The remaining components of the labour force, unemployed persons who worked prior to January 1, 2000, or who never worked, are shown in the data under the category "Industry – Not applicable".

This classification consists of a systematic and comprehensive arrangement of industries structured into 18 divisions, 75 major groups and 296 groups. These industrial groups are based on the general nature of the establishment's business, industry or service. For further information on the classification, see *Standard Industrial Classification, 1980*, Catalogue No. 12-501E.

Coding of responses to the industry questions was done, where possible, using a pre-coded List of Establishments to ensure uniformity with the SIC codes assigned to the same establishments by other Statistics Canada surveys. If the respondent did not specify an industry, or did not define it in sufficient detail to permit coding, a computer-generated SIC code was assigned based on other economic and demographic information given by the respondent.

Overview of the Standard Industrial Classifications Available from 1971 to 2001

Classifications Used to Code Responses	Census Years for Which Data can be Compared	Comments
1997 North American Industry Classification	2001	
1980 Standard Industrial Classification	1986, 1991, 1996, 2001	<p>A separate coding operation is done to the 2001 Census responses in order to provide data comparable to that of other census years. The original industrial coding operation coded the 2001 Census responses to the 1997 North American Industry Classification System (NAICS).</p> <p>This is the only industrial classification available for the 1996 Census.</p>
1970 Standard Industrial Classification Manual	1971, 1981, 1986, 1991	<p>In 1981, the concept of the labour force was expanded to include employment arrangements to start work and availability for work. For data comparisons with the 1971 Census, adjustments must be made to the labour force universe.</p>

Appendix B. Tables

Table B1. Summary of Expert Coding Changes, Industry, 2001 Census

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
031	There were a number of miscodes of persons working in fish processing to Fishing industries. This was sometimes due to incorrect entries in the LOE.	Changed fish plant workers with 031 code to 102	147
041	Machine operators in manufacturing (J141) were miscoded to Logging(041).	Changed SIC code from 041 to 251 if occupation was J141	177
051	Conservation and fishery officers were mistakenly coded to Logging and Forestry Services.	Changed SIC code from 051 to 820 - Provincial the Territorial Government and 830 - Local government services	169
051	Firefighters were mistakenly coded to Logging and Forestry Services.	Changed SIC code from 051 to 830 - Local government services	158
102	There were a number of miscodes to Fish products industry that should have been coded to Fishing industries.	Changed SIC code from 102 to 031 for J172 - Fishing vessel skippers and fishermen	179
264	Welders and machine operators were miscoded to 264 - Office furniture industries.	Changed SIC code from 264 to 319 - Other machinery and equipment industries	99
338	Persons working in electronics assembly were miscoded to Communications and Energy wire and Cable industries.	Changed SIC code from 338 to 335 - Communication and other electronic equipment industries	538

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
338	Computer engineers were mistakenly coded to 338 - Communications and energy wire and cable industries.	Changed industry code from 338 to 336 - Office, store ad business machine industries	105
338	Electrical and electronics engineering technologists were coded to Communications and energy wire cable industries.	Changed industry code from 338 to 339 - Other electrical products and to 335 - Communication and other electronic equipment industries	153
338	Assemblers and inspectors of Electrical Appliance industries were miscoded to Communications and energy wire cable industries.	Changed industry code from 338 to 331 - Small electrical appliance industry and 332 - Major appliance industry	
421	A number of nursery and green house workers were erroneously coded to construction industries.	Changed SIC code from 421 to 652 - Florists, lawn and garden centres	135
429	There were a number of miscodes to 429.	Changed SIC code from 429 - Other Trade Work to 401 - Residential Building and Development, 421 - Site Work, 422 - Structural and Related Work, 449 - Other Services Incidental to Construction, and 427 - Interior and Finishing Work	8,943
441	Persons who worked as construction trades helpers and labourers, carpenters and civil engineers were miscoded to construction management.	Changed SIC code from 441- Construction management to 401 - Residential Building and Development, 422 - Structural and Related work or 427 - Interior and Finishing work, and 775 - Architectural , Engineering and Other Scientific and Technical Services or 412 - Highway and Heavy Construction	321

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
452	Transportation managers and Airline sales and service agents were mistakenly coded to 452 - Service Industries Incidental to Air Transport .	Changed SIC code from 452 to 451 - Air Transport Industries, or 996 - Travel Services	385
461	A number of construction trades helpers and labourers were mistakenly coded to 461 - Pipeline Transport Industries.	Changed SIC code from 461 to 401 - Residential Building and Development	36
Multiple codes	Retail trade managers were miscoded to various industries.	Changed SIC codes from 511 - Petroleum products wholesale to 633 - Gasolene service stations, 523 - Drugs and toilet preparations, wholesale to 603 - Prescription drugs and patent medicines, from 531 - Apparel, wholesale to 613 - Women's clothing stores, 551 - Motor vehicles, wholesale to 631 - Automobile dealers, 571 - Farm machinery, equipment and supplies and 572 - Construction, forestry and mining to 659 - Other retail stores, 591 - Waste materials, wholesale to 634 - Automotive parts and accessories, and 593 - Agricultural supplies, wholesale to 652 - Florists, lawn and garden centres	1,510
522	Some persons who worked as delivery drivers were mistakenly coded to 522 - Beverages, wholesale.	Changed SIC code from 522 to 484 - Postal and Courier Service Industries	354
730	Persons working as immigration, employment insurance and revenue officers were miscoded to 730 - Insurance industries.	Changed SIC code from 730 to 820 - Provincial and territorial government	237
730	Customer service representatives in Financial services were mistakenly coded to 730 - Insurance industries.	Changed SIC code from 730 to 720 - Investment intermediary industries	142

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
740	A number of persons were miscoded to Other financial intermediary industries.	Changed SIC code from 740 to 761 - Insurance and Real Estate Agencies, and 779 - Other Business Services	391
772	A number of persons who worked as technical sales specialists were mistakenly coded to 772 - Computer and Related Services.	Changed SIC code from 772 to 574 - Electrical and Electronic Machinery	952
773	Other financial officers were coded to Accounting and bookkeeping services, in error.	Changed SIC code from 773 to 740 - Other financial intermediary industries	127
779	Persons working as banking, credit and other investment managers, and Other Elemental Sales occupations were wrongly coded 779 - Other business services.	Changed SIC code 779 to 720 - Investment intermediary industries and 692 - Direct Sellers	4,606
851 or 861	Post secondary teachers and assistants were miscoded to 851 - Elementary and secondary education and 861 - Hospitals.	Changed SIC code from 851/861 to 852 - Post-secondary non-university education	
852	There were a number of cases where persons who worked as university professors were coded to Postsecondary, non-university education.	Changed SIC code 852 to 853 - University education	154
853	Some persons who worked as Medical laboratory technologists assistants were mistakenly coded to 853 - University education.	Changed SIC code from 853 to 868 - Medical and Other Health laboratories	122
859	A number of persons who worked as vocational instructors were miscoded to 859 - Other Educational Services.	Changed SIC code from 859 to 851 - Elementary and Secondary Education and 852 - Post-Secondary Non-University Education	2,030

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
861	There were a number of cases of persons who worked as visiting home-makers and related occupations who were miscoded to 861 - Hospitals.	Changed SIC code from 861 to 864 - Non-institutional Social Services, 862 - Other Institutional Health and Social Services, and 863 - Non-institutional Health Services	380
865	Persons who worked as Medical radiation technologists and Nurse aides and orderlies were miscoded to 865 - Offices of Physicians, Surgeons and Dentists.	Changed SIC code from 865 to 868 - Medical and Other Health Laboratories, 862 - Other Institutional Health and Social Services, and 861 - Hospitals	332
866	A number of dental hygienists and dental therapists were miscoded to 866 - Offices of other health practitioners.	Changed SIC code from 866 to 865 - Offices of Physicians, Surgeons, and Dentists	265
962	Persons who worked in other elemental service occupations were miscoded to 962 - Motion Picture Exhibition.	Changed SIC code from 962 to 692 - Direct Sellers	594
979	A number of Cardiology technologists were miscoded to 979 - Other personal and household services.	Changed SIC code from 979 to 864 - Non-institutional social services	720
601 and 641	Persons who worked as Food and beverage servers were miscoded to 601 - Food stores or 641 - General merchandise stores.	Changed SIC code from 601/641 to 921 - Food services	260
740 or 720	Persons who worked as Announcers and other broadcasters were miscoded to 720 - Investment intermediary industries or 740 - Other financial intermediary industries.	Changed SIC code from 720/740 to 730 - Insurance industries	362
751 or 401	A number of real estate agents and sales persons were miscoded to 751 - Operators of buildings and dwellings or 401 - Residential building and development.	Changed SIC code from 751/401 to 761 - Insurance and real estate agencies	428

Original Industry Code	Description of Problem	Expert Recode	Number of Records Initially Corrected*
761, 730 and 777	Persons who worked as securities agents, investment dealers and traders were miscoded to 740 - Other financial intermediary industries.	Changed multiple SIC codes to 740 - Other financial intermediary industries	488
Multiple codes	A number of elementary and secondary school teacher assistants were miscoded.	Changed multiple SIC codes to 851 - Elementary and secondary education	412
864 and 852	Persons who worked as elementary school and kindergarten teachers were miscoded to 864 - Non-institutional social services and 852 - Post secondary non-university education.	Changed SIC codes from 864 and 852 to 851 - Elementary and Secondary education	302

* These numbers reflect initial changes only. The counts were further adjusted due to universe changes that take place in other later processes.

Table B2. Distributions Before and After Imputation, Industry, 2001 Census

SIC80	Weighted			
	Before Imputation	After Imputation	Difference (%)	
011-017	Agricultural industries	421,935	451,590	6.6
021-023	Service industries incidental to agriculture	48,855	51,225	4.6
031	Fishing industries	47,030	49,810	5.6
032	Services incidental to fishing	5,280	5,600	5.7
033	Trapping	1,685	1,795	6.1
041	Logging industry	71,980	77,325	6.9
051	Forestry services industry	33,305	35,695	6.7
061	Metal mines	36,435	37,950	4.0
062	Non-metal mines (except coal)	11,640	12,100	3.8
063	Coal mines	6,715	6,950	3.4
071	Crude petroleum and natural gas industries	49,495	51,595	4.1
081	Stone quarries	4,700	4,970	5.4
082	Sand and gravel pits	6,560	6,960	5.7
091	Service industries incidental to crude petroleum and natural gas	50,900	53,670	5.2
092	Service industries incidental to mining	9,320	9,860	5.5
101	Meat and poultry products industries	61,925	65,980	6.1
102	Fish products industry	42,770	45,665	6.3
103	Fruit and vegetable industries	19,460	20,635	5.7
104	Dairy products industries	21,620	22,715	4.8
105	Flour, prepared cereal food and feed industries	16,140	16,910	4.6
106	Vegetable oil mills (except corn oil)	1,375	1,440	4.5
107	Bakery products industries	32,030	34,375	6.8
108	Sugar and sugar confectionery industries	13,225	14,055	5.9
109	Other food products industries	29,430	31,345	6.1
111	Soft drink industry	8,215	8,630	4.8
112	Distillery products industry	2,315	2,465	6.1
113	Brewery products industry	10,490	11,155	6.0
114	Wine industry	2,900	3,070	5.5
121	Leaf tobacco industry	370	415	10.8
122	Tobacco products industry	3,610	3,780	4.5
151	Tire and tube industry	10,405	10,765	3.3
152	Rubber hose and belting industry	2,840	2,955	3.9
159	Other rubber products industries	11,590	12,325	6.0
161	Foamed and expanded plastic products industry	5,150	5,470	5.9
162	Plastic pipe and pipe fittings industry	4,765	5,070	6.0
163	Plastic film and sheeting industry	4,795	5,085	5.7

SIC80		Weighted		
		Before Imputation	After Imputation	Difference (%)
169	Other plastic products industries	64,110	68,495	6.4
171	Leather and allied products industries	11,010	11,795	6.7
181	Man-made fibre and filament yarn industry	4,445	4,650	4.4
182	Spun yarn and woven cloth industries	10,340	10,925	5.4
183	Broad knitted fabric industry	3,145	3,280	4.1
191	Natural fibres processing and felt products industry	1,530	1,610	5.0
192	Carpet, mat and rug industry	4,165	4,410	5.6
193	Canvas and related products industry	3,410	3,625	5.9
199	Other textile products industries	25,340	27,245	7.0
243	Men's and boys' clothing industries	28,075	30,245	7.2
244	Women's clothing industries	26,200	28,270	7.3
245	Children's clothing industry	3,970	4,385	9.5
249	Other clothing and apparel industries	52,745	57,540	8.3
251	Sawmill, planing mill and shingle mill products industries	83,995	89,400	6.0
252	Veneer and plywood industries	10,555	11,260	6.3
254	Sash, door and other millwork industries	57,205	60,455	5.4
256	Wooden box and pallet industry	5,535	5,990	7.6
258	Coffin and casket industry	1,265	1,345	5.9
259	Other wood industries	15,615	16,475	5.2
261	Household furniture industries	47,125	50,075	5.9
264	Office furniture industries	18,360	19,815	7.3
269	Other furniture and fixture industries	23,850	25,580	6.8
271	Pulp and paper industries	72,055	75,490	4.6
272	Asphalt roofing industry	1,245	1,345	7.4
273	Paper box and bag industries	19,445	20,655	5.9
279	Other converted paper products industries	13,770	14,635	5.9
281	Commercial printing industries	83,525	88,455	5.6
282	Platemaking, typesetting and bindery industry	16,025	17,000	5.7
283	Publishing industries	33,330	35,080	5.0
284	Combined publishing and printing industries	39,255	41,575	5.6
291	Primary steel industries	36,255	38,285	5.3
292	Steel pipe and tube industry	6,775	7,165	5.4
294	Iron foundries	5,100	5,370	5.0
295	Non-ferrous metal smelting and refining industries	19,095	19,945	4.3
296	Aluminum rolling, casting and extruding industry	10,325	10,775	4.2
297	Copper and copper alloy rolling, casting and extruding industry	2,660	2,770	4.0

SIC80	Weighted			
	Before Imputation	After Imputation	Difference (%)	
299	Other rolled, cast and extruded non-ferrous metal products industries	6,970	7,330	4.9
301	Power boiler and heat exchanger industry	4,365	4,600	5.1
302	Fabricated structural metal products industries	27,580	29,305	5.9
303	Ornamental and architectural metal products industries	18,335	19,490	5.9
304	Stamped, pressed and coated metal products industries	34,870	36,995	5.7
305	Wire and wire products industries	14,965	16,070	6.9
306	Hardware, tool and cutlery industries	34,860	36,885	5.5
307	Heating equipment industry	5,825	6,120	4.8
308	Machine shop industry	37,885	39,930	5.1
309	Other metal fabricating industries	24,035	25,410	5.4
311	Agricultural implement industry	10,390	10,890	4.6
312	Commercial refrigeration and air conditioning equipment industry	5,355	5,640	5.1
319	Other machinery and equipment industries	84,475	88,950	5.0
321	Aircraft and aircraft parts industry	56,715	59,625	4.9
323	Motor vehicle industry	67,960	71,410	4.8
324	Truck and bus body and trailer industries	18,365	19,360	5.1
325	Motor vehicle parts and accessories industries	137,270	145,445	5.6
326	Railroad rolling stock industry	10,825	11,470	5.6
327	Shipbuilding and repair industry	6,280	6,645	5.5
328	Boatbuilding and repair industry	9,015	9,540	5.5
329	Other transportation equipment industries	5,245	5,515	4.9
331	Small electrical appliance industry	2,375	2,605	8.8
332	Major appliance industry (electric and non-electric)	6,850	7,110	3.7
333	Electric lighting industries	7,315	7,800	6.2
334	Record player, radio and television receiver industry	1,635	1,755	6.8
335	Communication and other electronic equipment industries	91,380	96,440	5.2
336	Office, store and business machine industries	16,970	18,055	6.0
337	Electrical industrial equipment industries	20,825	22,015	5.4
338	Communications and energy wire and cable industry	18,265	19,270	5.2
339	Other electrical products industries	7,430	7,945	6.5
351	Clay products industries	4,555	4,890	6.9
352	Hydraulic cement industry	3,025	3,230	6.3
354	Concrete products industries	10,180	10,860	6.3
355	Ready-mix concrete industry	10,985	11,550	4.9
356	Glass and glass products industries	13,350	14,145	5.6

SIC80		Weighted		
		Before Imputation	After Imputation	Difference (%)
357	Abrasives industry	1,495	1,595	6.3
358	Lime industry	620	635	2.4
359	Other non-metallic mineral products industries	11,590	12,235	5.3
361	Refined petroleum products industries	13,605	14,120	3.6
369	Other petroleum and coal products industries	1,025	1,095	6.4
371	Industrial chemicals industries, n.e.c.	17,760	18,605	4.5
372	Agricultural chemical industries	5,050	5,285	4.4
373	Plastic and synthetic resin industry	6,820	7,135	4.4
374	Pharmaceutical and medicine industry	29,460	30,665	3.9
375	Paint and varnish industry	7,790	8,220	5.2
376	Soap and cleaning compounds industry	5,685	6,030	5.7
377	Toilet preparations industry	8,190	8,715	6.0
379	Other chemical products industries	15,135	16,025	5.6
391	Scientific and professional equipment industries	26,650	28,225	5.6
392	Jewellery and precious metal industries	6,705	7,155	6.3
393	Sporting goods and toy industries	15,735	16,755	6.1
397	Sign and display industry	14,305	15,045	4.9
399	Other manufactured products industries	44,990	47,775	5.8
401	Residential building and development	126,335	134,420	6.0
402	Non-residential building and development	39,195	41,480	5.5
411	Industrial construction (other than buildings)	23,830	25,120	5.1
412	Highway and heavy construction	68,270	72,575	5.9
421	Site work	108,765	115,645	5.9
422	Structural and related work	48,570	51,735	6.1
423	Exterior close-in work	77,645	82,555	5.9
424	Plumbing, heating and air conditioning, mechanical work	90,790	95,280	4.7
425	Mechanical specialty work	20,900	21,825	4.2
426	Electrical work	95,110	99,785	4.7
427	Interior and finishing work	138,255	146,835	5.8
429	Other trade work	75,760	80,385	5.8
441	Project management, construction	10,635	11,305	5.9
449	Other services incidental to construction	14,320	15,150	5.5
451	Air transport industries	70,860	73,940	4.2
452	Service industries incidental to air transport	28,275	29,690	4.8
453	Railway transport and related service industries	46,695	48,790	4.3
454	Water transport industries	18,930	20,050	5.6
455	Service industries incidental to water transport	12,975	13,760	5.7
456	Truck transport industries	265,685	281,745	5.7

SIC80		Weighted		
		Before Imputation	After Imputation	Difference (%)
457	Public passenger transit systems industries	90,510	95,420	5.1
458	Other transportation industries	42,640	45,005	5.3
459	Other service industries incidental to transportation	59,530	63,235	5.9
461	Pipeline transport industries	6,730	7,070	4.8
471	Grain elevator industry	3,745	3,970	5.7
479	Other storage and warehousing industries	20,725	22,415	7.5
481	Telecommunication broadcasting industries	57,740	60,280	4.2
482	Telecommunication carriers industry	120,555	126,730	4.9
483	Other telecommunication industries	1,810	1,970	8.1
484	Postal and courier service industries	130,435	137,630	5.2
491	Electric power systems industry	92,105	96,055	4.1
492	Gas distribution systems industry	15,780	16,555	4.7
493	Water systems industry	14,040	14,795	5.1
499	Other utility industries, n.e.c.	30,060	31,900	5.8
501	Farm products, wholesale	12,975	13,690	5.2
511	Petroleum products, wholesale	25,720	26,955	4.6
521	Food, wholesale	87,795	93,370	6.0
522	Beverages, wholesale	16,845	17,770	5.2
523	Drugs and toilet preparations, wholesale	31,825	33,645	5.4
524	Tobacco products, wholesale	1,755	1,890	7.1
531	Apparel, wholesale	17,705	19,205	7.8
532	Dry goods, wholesale	5,495	5,920	7.2
541	Electrical and electronic household appliances and parts, wholesale	7,315	7,790	6.1
542	Household furniture, wholesale	2,240	2,405	6.9
543	Household furnishings, wholesale	10,160	10,965	7.3
551	Motor vehicles, wholesale	27,415	28,850	5.0
552	Motor vehicle parts and accessories, wholesale	37,270	39,550	5.8
561	Metal and metal products, wholesale	17,725	18,885	6.1
562	Hardware and plumbing, heating and air conditioning equipment and supplies, wholesale	32,300	34,400	6.1
563	Lumber and building materials, wholesale	98,835	105,100	6.0
571	Farm machinery, equipment and supplies, wholesale	21,445	22,420	4.3
572	Construction, forestry and mining machinery, equipment and supplies, wholesale	23,705	24,785	4.4
573	Industrial machinery, equipment and supplies, wholesale	44,440	46,850	5.1
574	Electrical and electronic machinery, equipment and supplies, wholesale	96,885	102,445	5.4
579	Other machinery, equipment and supplies, wholesale	71,425	75,405	5.3

SIC80	Weighted			
	Before Imputation	After Imputation	Difference (%)	
591	Waste materials, wholesale	28,530	30,365	6.0
592	Paper and paper products, wholesale	20,635	22,000	6.2
593	Agricultural supplies, wholesale	18,235	19,255	5.3
594	Toys, amusement and sporting goods, wholesale	8,200	8,815	7.0
595	Photographic equipment and musical instruments and supplies, wholesale	3,780	3,980	5.0
596	Jewellery and watches, wholesale	3,170	3,450	8.1
597	Industrial and household chemicals, wholesale	12,625	13,240	4.6
598	General merchandise, wholesale	6,820	7,300	6.6
599	Other products, n.e.c., wholesale	35,430	37,845	6.4
601	Food stores	459,665	492,415	6.7
602	Liquor, wine and beer stores	24,920	26,575	6.2
603	Prescription drugs and patent medicine stores	110,455	116,800	5.4
611	Shoe stores	21,920	23,500	6.7
612	Men's clothing stores	12,685	13,595	6.7
613	Women's clothing stores	56,050	59,830	6.3
614	Clothing stores, n.e.c.	75,105	80,100	6.2
615	Fabric and yarn stores	8,925	9,550	6.5
621	Household furniture stores	39,350	41,730	5.7
622	Appliance, television, radio and stereo stores	45,735	48,330	5.4
623	Household furnishings stores	26,400	27,745	4.8
631	Automobile dealers	126,760	133,995	5.4
632	Recreational vehicle dealers	17,605	18,455	4.6
633	Gasoline service stations	71,290	76,535	6.9
634	Automotive parts and accessories stores	53,590	56,995	6.0
635	Motor vehicle repair shops	145,020	152,870	5.1
639	Other motor vehicle services	19,265	20,405	5.6
641	General merchandise stores	212,380	226,565	6.3
651	Book and stationery stores	28,685	30,445	5.8
652	Florists, lawn and garden centres	28,245	30,120	6.2
653	Hardware, paint, glass and wallpaper stores	30,720	32,635	5.9
654	Sporting goods and bicycle shops	40,220	42,755	5.9
655	Musical instrument and record stores	12,245	12,950	5.4
656	Jewellery stores and watch and jewellery repair shops	23,300	24,585	5.2
657	Camera and photographic supply stores	10,820	11,420	5.3
658	Toy, hobby, novelty and souvenir stores	41,065	43,690	6.0
659	Other retail stores	99,080	105,340	5.9
691	Vending machine operators	4,700	5,030	6.6
692	Direct sellers	56,300	60,490	6.9

SIC80	Weighted			
	Before Imputation	After Imputation	Difference (%)	
701-709	Deposit accepting intermediary industries	281,425	295,175	4.7
711-712	Consumer and business financing intermediary industries	29,095	30,435	4.4
721-729	Investment intermediary industries	55,130	57,975	4.9
731-733	Insurance industries	133,230	139,415	4.4
741-749	Other financial intermediary industries	86,835	90,920	4.5
751	Operators of buildings and dwellings	113,040	119,980	5.8
759	Other real estate operators	2,620	2,755	4.9
761	Insurance and real estate agencies	165,780	173,235	4.3
771	Employment agencies and personnel suppliers	88,670	94,795	6.5
772	Computer and related services	326,110	341,245	4.4
773	Accounting and bookkeeping services	135,990	142,820	4.8
774	Advertising services	102,905	108,345	5.0
775	Architectural, engineering and other scientific and technical services	232,230	242,310	4.2
776	Offices of lawyers and notaries	120,290	125,100	3.8
777	Management consulting services	88,635	93,025	4.7
779	Other business services	273,485	289,435	5.5
811	Defence services	92,735	97,615	5.0
812-817	Other federal government service industries	274,015	285,695	4.1
822-827	Provincial and territorial government service industries	244,020	253,875	3.9
832-837	Local government service industries	285,535	301,685	5.4
841	International and other extra-territorial agencies	3,315	3,450	3.9
851	Elementary and secondary education	698,055	724,150	3.6
852	Post-secondary non-university education	131,475	136,915	4.0
853	University education	189,170	197,295	4.1
854	Library services	31,140	32,625	4.6
855	Museums and archives	18,250	19,185	4.9
859	Other educational services	40,400	42,405	4.7
861	Hospitals	522,290	543,210	3.9
862	Other institutional health and social services	270,575	283,950	4.7
863	Non-institutional health services	123,425	128,545	4.0
864	Non-institutional social services	389,530	410,145	5.0
865	Offices of physicians, surgeons and dentists, private practice	184,790	192,305	3.9
866	Offices of other health practitioners	65,580	68,120	3.7
867	Offices of social services practitioners	9,770	10,050	2.8
868	Medical and other health laboratories	27,930	29,170	4.3
869	Health and social service associations and agencies	35,900	37,605	4.5

SIC80	Weighted			
	Before Imputation	After Imputation	Difference (%)	
911	Hotels, motels and tourist courts	158,480	169,735	6.6
912	Lodging houses and residential clubs	2,040	2,200	7.3
913	Camping grounds and travel trailer parks	7,690	8,325	7.6
914	Recreation and vacation camps	22,205	24,605	9.8
921	Food services	890,505	956,900	6.9
922	Taverns, bars and night clubs	62,820	66,620	5.7
961	Motion picture, audio and video production and distribution	50,875	53,450	4.8
962	Motion picture exhibition	16,745	18,055	7.3
963	Theatrical and other staged entertainment services	44,070	46,350	4.9
964	Commercial spectator sports	19,725	21,175	6.8
965	Sports and recreation clubs and services	84,320	91,245	7.6
966	Gambling operations	45,745	48,300	5.3
969	Other amusement and recreational services	72,380	78,130	7.4
971	Barber and beauty shops	115,885	120,875	4.1
972	Laundries and cleaners	43,040	45,890	6.2
973	Funeral services	13,645	14,365	5.0
974	Private households	28,855	31,000	6.9
979	Other personal and household services	99,205	106,365	6.7
981	Religious organizations	70,000	73,570	4.9
982	Business associations	16,535	17,450	5.2
983	Professional membership associations	9,025	9,400	4.0
984	Labour organizations	18,235	19,110	4.6
985	Political organizations	1,370	1,455	5.8
986	Civic and fraternal organizations	37,030	39,320	5.8
991	Machinery and equipment rental and leasing services	45,815	48,665	5.9
992	Automobile and truck rental and leasing services	19,340	20,460	5.5
993	Photographers	12,910	13,500	4.4
994	Other repair services	39,525	41,765	5.4
995	Services to buildings and dwellings	179,980	193,415	6.9
996	Travel services	50,070	52,605	4.8
999	Other services, n.e.c.	63,375	66,695	5.0

Table B3. Distributions Before and After Deterministic Edits, Industry, 2001 Census

SIC80	Weighted		
	Before Deterministic Edits	After Deterministic Edits	Differences (%)
011-017 Agricultural industries	451,590	452,525	0.2
021-023 Service industries incidental to agriculture	51,225	51,175	-0.1
031 Fishing industries	49,810	50,095	0.6
032 Services incidental to fishing	5,600	5,705	1.9
033 Trapping	1,795	1,765	-1.7
041 Logging industry	77,325	76,390	-1.2
051 Forestry services industry	35,695	34,390	-3.7
061 Metal mines	37,950	37,885	-0.2
062 Non-metal mines (except coal)	12,100	12,075	-0.2
063 Coal mines	6,950	6,945	-0.1
071 Crude petroleum and natural gas industries	51,595	51,370	-0.4
081 Stone quarries	4,970	4,965	-0.1
082 Sand and gravel pits	6,960	6,950	-0.1
091 Service industries incidental to crude petroleum and natural gas	53,670	53,585	-0.2
092 Service industries incidental to mining	9,860	9,745	-1.2
101 Meat and poultry products industries	65,980	65,955	0.0
102 Fish products industry	45,665	45,390	-0.6
103 Fruit and vegetable industries	20,635	20,490	-0.7
104 Dairy products industries	22,715	22,705	0.0
105 Flour, prepared cereal food and feed industries	16,910	16,895	-0.1
106 Vegetable oil mills (except corn oil)	1,440	1,430	-0.7
107 Bakery products industries	34,375	34,365	0.0
108 Sugar and sugar confectionery industries	14,055	14,040	-0.1
109 Other food products industries	31,345	31,330	0.0
111 Soft drink industry	8,630	8,625	-0.1
112 Distillery products industry	2,465	2,465	0.0
113 Brewery products industry	11,155	11,155	0.0
114 Wine industry	3,070	3,070	0.0
121 Leaf tobacco industry	415	415	0.0
122 Tobacco products industry	3,780	3,785	0.1
151 Tire and tube industry	10,765	10,760	0.0
152 Rubber hose and belting industry	2,955	2,960	0.2
159 Other rubber products industries	12,325	12,305	-0.2
161 Foamed and expanded plastic products industry	5,470	5,465	-0.1
162 Plastic pipe and pipe fittings industry	5,070	5,070	0.0

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
163	Plastic film and sheeting industry	5,085	5,085	0.0
169	Other plastic products industries	68,495	68,470	0.0
171	Leather and allied products industries	11,795	11,775	-0.2
181	Man-made fibre and filament yarn industry	4,650	4,650	0.0
182	Spun yarn and woven cloth industries	10,925	10,915	-0.1
183	Broad knitted fabric industry	3,280	3,280	0.0
191	Natural fibres processing and felt products industry	1,610	1,610	0.0
192	Carpet, mat and rug industry	4,410	4,395	-0.3
193	Canvas and related products industry	3,625	3,625	0.0
199	Other textile products industries	27,245	27,215	-0.1
243	Men's and boys' clothing industries	30,245	30,230	0.0
244	Women's clothing industries	28,270	28,255	-0.1
245	Children's clothing industry	4,385	4,385	0.0
249	Other clothing and apparel industries	57,540	57,515	0.0
251	Sawmill, planing mill and shingle mill products industries	89,400	90,205	0.9
252	Veneer and plywood industries	11,260	11,260	0.0
254	Sash, door and other millwork industries	60,455	60,415	-0.1
256	Wooden box and pallet industry	5,990	5,990	0.0
258	Coffin and casket industry	1,345	1,350	0.4
259	Other wood industries	16,475	16,435	-0.2
261	Household furniture industries	50,075	50,050	0.0
264	Office furniture industries	19,815	19,270	-2.8
269	Other furniture and fixture industries	25,580	25,570	0.0
271	Pulp and paper industries	75,490	75,460	0.0
272	Asphalt roofing industry	1,345	1,345	0.0
273	Paper box and bag industries	20,655	20,645	0.0
279	Other converted paper products industries	14,635	14,625	-0.1
281	Commercial printing industries	88,455	88,405	-0.1
282	Platemaking, typesetting and bindery industry	17,000	16,895	-0.6
283	Publishing industries	35,080	35,010	-0.2
284	Combined publishing and printing industries	41,575	41,520	-0.1
291	Primary steel industries	38,285	38,270	0.0
292	Steel pipe and tube industry	7,165	7,165	0.0
294	Iron foundries	5,370	5,365	-0.1
295	Non-ferrous metal smelting and refining industries	19,945	19,925	-0.1

SIC80		Weighted		
		Before Deterministic Edits	After Deterministic Edits	Differences (%)
296	Aluminum rolling, casting and extruding industry	10,775	10,775	0.0
297	Copper and copper alloy rolling, casting and extruding industry	2,770	2,765	-0.2
299	Other rolled, cast and extruded non-ferrous metal products industries	7,330	7,330	0.0
301	Power boiler and heat exchanger industry	4,600	4,600	0.0
302	Fabricated structural metal products industries	29,305	29,265	-0.1
303	Ornamental and architectural metal products industries	19,490	19,450	-0.2
304	Stamped, pressed and coated metal products industries	36,995	36,980	0.0
305	Wire and wire products industries	16,070	16,045	-0.2
306	Hardware, tool and cutlery industries	36,885	36,800	-0.2
307	Heating equipment industry	6,120	6,120	0.0
308	Machine shop industry	39,930	39,895	-0.1
309	Other metal fabricating industries	25,410	25,380	-0.1
311	Agricultural implement industry	10,890	10,890	0.0
312	Commercial refrigeration and air conditioning equipment industry	5,640	5,635	-0.1
319	Other machinery and equipment industries	88,950	89,335	0.4
321	Aircraft and aircraft parts industry	59,625	59,460	-0.3
323	Motor vehicle industry	71,410	71,360	-0.1
324	Truck and bus body and trailer industries	19,360	19,360	0.0
325	Motor vehicle parts and accessories industries	145,445	145,395	0.0
326	Railroad rolling stock industry	11,470	11,460	-0.1
327	Shipbuilding and repair industry	6,645	6,630	-0.2
328	Boatbuilding and repair industry	9,540	9,510	-0.3
329	Other transportation equipment industries	5,515	5,505	-0.2
331	Small electrical appliance industry	2,605	3,305	26.9
332	Major appliance industry (electric and non-electric)	7,110	7,975	12.2
333	Electric lighting industries	7,800	7,800	0.0
334	Record player, radio and television receiver industry	1,755	1,755	0.0
335	Communication and other electronic equipment industries	96,440	99,815	3.5
336	Office, store and business machine industries	18,055	18,575	2.9
337	Electrical industrial equipment industries	22,015	21,975	-0.2

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
338	Communications and energy wire and cable industry	19,270	13,075	-32.1
339	Other electrical products industries	7,945	8,415	5.9
351	Clay products industries	4,890	4,855	-0.7
352	Hydraulic cement industry	3,230	3,230	0.0
354	Concrete products industries	10,860	10,840	-0.2
355	Ready-mix concrete industry	11,550	11,545	0.0
356	Glass and glass products industries	14,145	14,080	-0.5
357	Abrasives industry	1,595	1,595	0.0
358	Lime industry	635	635	0.0
359	Other non-metallic mineral products industries	12,235	12,220	-0.1
361	Refined petroleum products industries	14,120	14,090	-0.2
369	Other petroleum and coal products industries	1,095	1,095	0.0
371	Industrial chemicals industries, n.e.c.	18,605	18,580	-0.1
372	Agricultural chemical industries	5,285	5,270	-0.3
373	Plastic and synthetic resin industry	7,135	7,130	-0.1
374	Pharmaceutical and medicine industry	30,665	30,650	0.0
375	Paint and varnish industry	8,220	8,210	-0.1
376	Soap and cleaning compounds industry	6,030	6,015	-0.2
377	Toilet preparations industry	8,715	8,680	-0.4
379	Other chemical products industries	16,025	16,010	-0.1
391	Scientific and professional equipment industries	28,225	28,120	-0.4
392	Jewellery and precious metal industries	7,155	7,140	-0.2
393	Sporting goods and toy industries	16,755	16,745	-0.1
397	Sign and display industry	15,045	15,015	-0.2
399	Other manufactured products industries	47,775	47,670	-0.2
401	Residential building and development	134,420	159,205	18.4
402	Non-residential building and development	41,480	41,470	0.0
411	Industrial construction (other than buildings)	25,120	25,110	0.0
412	Highway and heavy construction	72,575	72,790	0.3
421	Site work	115,645	115,430	-0.2
422	Structural and related work	51,735	69,020	33.4
423	Exterior close-in work	82,555	82,545	0.0
424	Plumbing, heating and air conditioning, mechanical work	95,280	95,265	0.0
425	Mechanical specialty work	21,825	21,820	0.0
426	Electrical work	99,785	99,670	-0.1

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
427	Interior and finishing work	146,835	147,625	0.5
429	Other trade work	80,385	35,840	-55.4
441	Project management, construction	11,305	9,660	-14.6
449	Other services incidental to construction	15,150	15,655	3.3
451	Air transport industries	73,940	74,935	1.3
452	Service industries incidental to air transport	29,690	27,600	-7.0
453	Railway transport and related service industries	48,790	48,780	0.0
454	Water transport industries	20,050	19,995	-0.3
455	Service industries incidental to water transport	13,760	13,735	-0.2
456	Truck transport industries	281,745	281,405	-0.1
457	Public passenger transit systems industries	95,420	95,365	-0.1
458	Other transportation industries	45,005	45,475	1.0
459	Other service industries incidental to transportation	63,235	63,085	-0.2
461	Pipeline transport industries	7,070	7,060	-0.1
471	Grain elevator industry	3,970	3,950	-0.5
479	Other storage and warehousing industries	22,415	22,370	-0.2
481	Telecommunication broadcasting industries	60,280	60,220	-0.1
482	Telecommunication carriers industry	126,730	126,640	-0.1
483	Other telecommunication industries	1,970	1,970	0.0
484	Postal and courier service industries	137,630	140,895	2.4
491	Electric power systems industry	96,055	95,915	-0.1
492	Gas distribution systems industry	16,555	16,530	-0.2
493	Water systems industry	14,795	14,765	-0.2
499	Other utility industries, n.e.c.	31,900	31,865	-0.1
501	Farm products, wholesale	13,690	13,680	-0.1
511	Petroleum products, wholesale	26,955	25,905	-3.9
521	Food, wholesale	93,370	93,130	-0.3
522	Beverages, wholesale	17,770	15,845	-10.8
523	Drugs and toilet preparations, wholesale	33,645	32,810	-2.5
524	Tobacco products, wholesale	1,890	1,880	-0.5
531	Apparel, wholesale	19,205	18,455	-3.9
532	Dry goods, wholesale	5,920	5,920	0.0
541	Electrical and electronic household appliances and parts, wholesale	7,790	7,785	-0.1
542	Household furniture, wholesale	2,405	2,405	0.0
543	Household furnishings, wholesale	10,965	10,960	0.0
551	Motor vehicles, wholesale	28,850	27,385	-5.1

SIC80		Weighted		
		Before Deterministic Edits	After Deterministic Edits	Differences (%)
552	Motor vehicle parts and accessories, wholesale	39,550	39,540	0.0
561	Metal and metal products, wholesale	18,885	18,880	0.0
562	Hardware and plumbing, heating and air conditioning equipment and supplies, wholesale	34,400	34,365	-0.1
563	Lumber and building materials, wholesale	105,100	105,075	0.0
571	Farm machinery, equipment and supplies, wholesale	22,420	21,025	-6.2
572	Construction, forestry and mining machinery, equipment and supplies, wholesale	24,785	24,090	-2.8
573	Industrial machinery, equipment and supplies, wholesale	46,850	46,795	-0.1
574	Electrical and electronic machinery, equipment and supplies, wholesale	102,445	107,645	5.1
579	Other machinery, equipment and supplies, wholesale	75,405	75,350	-0.1
591	Waste materials, wholesale	30,365	29,390	-3.2
592	Paper and paper products, wholesale	22,000	21,990	0.0
593	Agricultural supplies, wholesale	19,255	18,045	-6.3
594	Toys, amusement and sporting goods, wholesale	8,815	8,800	-0.2
595	Photographic equipment and musical instruments and supplies, wholesale	3,980	3,970	-0.3
596	Jewellery and watches, wholesale	3,450	3,455	0.1
597	Industrial and household chemicals, wholesale	13,240	13,225	-0.1
598	General merchandise, wholesale	7,300	7,290	-0.1
599	Other products, n.e.c., wholesale	37,845	37,775	-0.2
601	Food stores	492,415	491,445	-0.2
602	Liquor, wine and beer stores	26,575	26,545	-0.1
603	Prescription drugs and patent medicine stores	116,800	117,730	0.8
611	Shoe stores	23,500	23,490	0.0
612	Men's clothing stores	13,595	13,590	0.0
613	Women's clothing stores	59,830	60,550	1.2
614	Clothing stores , n.e.c.	80,100	80,090	0.0
615	Fabric and yarn stores	9,550	9,550	0.0
621	Household furniture stores	41,730	41,705	-0.1
622	Appliance, television, radio and stereo stores	48,330	48,300	-0.1
623	Household furnishings stores	27,745	27,720	-0.1
631	Automobile dealers	133,995	135,405	1.1
632	Recreational vehicle dealers	18,455	18,435	-0.1

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
633	Gasoline service stations	76,535	77,545	1.3
634	Automotive parts and accessories stores	56,995	57,905	1.6
635	Motor vehicle repair shops	152,870	152,745	-0.1
639	Other motor vehicle services	20,405	20,385	-0.1
641	General merchandise stores	226,565	225,895	-0.3
651	Book and stationery stores	30,445	30,410	-0.1
652	Florists, lawn and garden centres	30,120	31,925	6.0
653	Hardware, paint, glass and wallpaper stores	32,635	32,615	-0.1
654	Sporting goods and bicycle shops	42,755	42,710	-0.1
655	Musical instrument and record stores	12,950	12,940	-0.1
656	Jewellery stores and watch and jewellery repair shops	24,585	24,580	0.0
657	Camera and photographic supply stores	11,420	11,405	-0.1
658	Toy, hobby, novelty and souvenir stores	43,690	43,585	-0.2
659	Other retail stores	105,340	107,950	2.5
691	Vending machine operators	5,030	5,030	0.0
692	Direct sellers	60,490	89,280	47.6
701-709	Deposit accepting intermediary industries	295,175	294,980	-0.1
711-712	Consumer and business financing intermediary industries	30,435	30,395	-0.1
721-729	Investment intermediary industries	57,975	58,355	0.7
731-733	Insurance industries	139,415	138,200	-0.9
741-749	Other financial intermediary industries	90,920	90,235	-0.8
751	Operators of buildings and dwellings	119,980	118,155	-1.5
759	Other real estate operators	2,755	2,720	-1.3
761	Insurance and real estate agencies	173,235	175,235	1.2
771	Employment agencies and personnel suppliers	94,795	94,545	-0.3
772	Computer and related services	341,245	334,755	-1.9
773	Accounting and bookkeeping services	142,820	141,695	-0.8
774	Advertising services	108,345	108,020	-0.3
775	Architectural, engineering and other scientific and technical services	242,310	248,915	2.7
776	Offices of lawyers and notaries	125,100	125,455	0.3
777	Management consulting services	93,025	91,275	-1.9
779	Other business services	289,435	263,140	-9.1
811	Defence services	97,615	99,835	2.3
812-817	Other federal government service industries	285,695	285,765	0.0
822-827	Provincial and territorial government service industries	253,875	256,390	1.0

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
832-837	Local government service industries	301,685	302,155	0.2
841	International and other extra-territorial agencies	3,450	3,405	-1.3
851	Elementary and secondary education	724,150	754,485	4.2
852	Post-secondary non-university education	136,915	144,755	5.7
853	University education	197,295	196,275	-0.5
854	Library services	32,625	32,415	-0.6
855	Museums and archives	19,185	18,940	-1.3
859	Other educational services	42,405	30,310	-28.5
861	Hospitals	543,210	540,050	-0.6
862	Other institutional health and social services	283,950	284,300	0.1
863	Non-institutional health services	128,545	128,500	0.0
864	Non-institutional social services	410,145	416,060	1.4
865	Offices of physicians, surgeons and dentists, private practice	192,305	192,655	0.2
866	Offices of other health practitioners	68,120	66,400	-2.5
867	Offices of social services practitioners	10,050	10,075	0.2
868	Medical and other health laboratories	29,170	30,540	4.7
869	Health and social service associations and agencies	37,605	37,470	-0.4
911	Hotels, motels and tourist courts	169,735	149,810	-11.7
912	Lodging houses and residential clubs	2,200	2,135	-3.0
913	Camping grounds and travel trailer parks	8,325	8,210	-1.4
914	Recreation and vacation camps	24,605	24,505	-0.4
921	Food services	956,900	957,870	0.1
922	Taverns, bars and night clubs	66,620	66,530	-0.1
961	Motion picture, audio and video production and distribution	53,450	53,410	-0.1
962	Motion picture exhibition	18,055	14,635	-18.9
963	Theatrical and other staged entertainment services	46,350	46,510	0.3
964	Commercial spectator sports	21,175	21,145	-0.1
965	Sports and recreation clubs and services	91,245	90,985	-0.3
966	Gambling operations	48,300	48,250	-0.1
969	Other amusement and recreational services	78,130	77,815	-0.4
971	Barber and beauty shops	120,875	120,840	0.0
972	Laundries and cleaners	45,890	45,880	0.0
973	Funeral services	14,365	14,495	0.9
974	Private households	31,000	30,020	-3.2
979	Other personal and household services	106,365	102,315	-3.8

SIC80	Weighted			
	Before Deterministic Edits	After Deterministic Edits	Differences (%)	
981	Religious organizations	73,570	73,220	-0.5
982	Business associations	17,450	17,360	-0.5
983	Professional membership associations	9,400	9,335	-0.7
984	Labour organizations	19,110	19,040	-0.4
985	Political organizations	1,455	1,350	-7.2
986	Civic and fraternal organizations	39,320	38,960	-0.9
991	Machinery and equipment rental and leasing services	48,665	48,590	-0.2
992	Automobile and truck rental and leasing services	20,460	20,445	-0.1
993	Photographers	13,500	14,145	4.8
994	Other repair services	41,765	41,740	-0.1
995	Services to buildings and dwellings	193,415	193,215	-0.1
996	Travel services	52,605	53,370	1.5
999	Other services, n.e.c.	66,695	67,610	1.4
Total		16,961,475	16,961,455	..

Table B4. Non-response Rates by Sex, Document Type and Province, Industry, 1996 and 2001 Censuses, Unweighted*

	CAN		NFLD		PEI		NS		NB		QUE		ONT		MAN		SASK		ALTA		BC		YUK		NWT		NUN	
	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001
	(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)	
Both Sexes																												
All Document Types	5.3	6.7	5.2	5.3	5.3	5.6	5.5	5.3	5.6	5.9	4.8	5.8	5.7	7.2	4.3	5.3	5.2	5.6	5.1	6.4	5.7	8.2	7.1	11	3.8	7.2	...	5.7
Occupied Private 2B	4.8	6	5.1	5.3	4.9	5.3	5.1	5.1	5	5.6	4.4	5.6	5.2	6.3	3.6	4.7	4.6	5.1	4.3	5.8	5	6.8	6.7	5.5	4.6	4.8	...	50
Collective Household 2B	24	26	14	15	16	31	23	23	30	18	25	25	32	36	15	8	13	6.2	19	16	27	54	22	29	11	69	...	0
Overseas Household 2C	7.3	6.1	14	5.5	15	0	4.3	5.4	14	4.8	9.6	7.1	6	5.2	1.6	8	3.8	10	14	8.2	8.9	8.3	0	0	0	0	...	0
Occupied Private 2D	7.3	13	4.6	3.8	3.5	5.5	6.8	5.3	14	8.3	8.3	5	9.2	33	5.1	7.8	7.5	8.2	7.8	12	11	19	6.3	13	3.1	9.4	...	11
Collective Household 2D	13	23	20	..	0	..	0	0	0	100	13	27	13	16	27	23	0	22	13	58	12	32	12	11	9.7	16	...	11
Males																												
All Document Types	4.4	6.8	3.6	5.4	3.6	5.7	3.2	5.5	4.1	6.1	4.8	5.8	4.6	7.3	4.1	5.5	4.8	5.9	3.9	6.7	4.2	8.6	3.7	11.1	3.1	7.4	..	4.8
Occupied Private 2B	4.7	5.9	5.0	5.4	4.7	5.5	5.1	5.2	5.0	5.7	4.3	5.6	5.1	6.2	3.5	4.7	4.2	5.3	4.0	5.8	4.9	6.8	7.2	5.6	4.7	4.7	..	50.0
Collective Household 2B	25.6	28.2	16.8	16.6	16.9	26.8	20.5	24.7	32.9	17.7	24.6	25.0	32.9	35.8	18.0	9.8	16.0	7.8	20.6	19.0	28.2	56.5	25.3	33.8	8.0	76.1	..	0
Overseas Household 2C	4.8	3.8	4	6.7	2	0	3.3	4.5	3	0	8.5	4.4	3.6	2.9	2.1	3	6.3	10.3	4.6	7.4	3.7	5.1	0	0	0	0	..	0
Occupied Private 2D	7.6	13.7	4.5	4.8	3	4	7	6.3	14	8.3	8.6	4.9	9.2	33.2	4.8	8	7.3	8.5	7.6	11.9	11	19.6	6.6	12.8	3	9.6	..	5.2
Collective Household 2D	13.4	19.5	0	0	0	0	0	0	0	0	12.5	21.1	13.5	10.7	28.3	11.8	0	33.3	17.2	63.4	12.2	24.1	13.2	8.5	8.9	15.6	..	7

	CAN		NFLD		PEI		NS		NB		QUE		ONT		MAN		SASK		ALTA		BC		YUK		NWT		NUN	
	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001
	(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)	
Females																												
All Document Types	5.3	6.5	5.3	5.1	5.5	5.4	5.5	5.1	5.4	5.8	4.8	5.7	5.7	7.1	4.1	5.1	5.4	5.3	5.3	6.2	5.6	7.7	6.3	11	3.8	7.1	...	4.8
Occupied Private 2B	4.9	6	5.3	5.2	5.1	5.1	5.2	5	5	5.6	4.4	5.5	5.4	6.4	3.6	4.6	4.9	4.9	4.7	5.7	5.1	6.7	6.3	5.3	4.4	5	...	0
Collective Household 2B	21.7	20.7	11.2	13.3	14.6	38.3	28.3	19.0	22.8	20.2	25.9	24.1	31.2	35.2	10.4	5.7	10.3	4.1	16.4	10.4	23.0	47.9	11.8	18.5	17.2	52.6	...	0
Overseas Household 2C	9.7	9.2	23	4	17	0	8.2	6.8	17	12.5	12	10.6	8	8.2	0	15.2	4.3	10.5	19	9.2	15	13.3	0	0	0	0	...	0
Occupied Private 2D	7.6	13	4.8	2.6	4.1	7.7	6.6	4.2	15	8.3	8	5	9.1	31.6	5.4	7.6	7.8	7.8	8.1	11.7	11	18.8	6	13.2	3.1	9.2	...	6.1
Collective Household 2D	13.2	29.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	36.4	13.2	25.0	25.3	42.9	0.0	0.0	0.0	40.0	10.0	43.0	8.0	14.8	12.5	17.6	...	20.5

* Invalid included as a response.

Table B5. Non-response Rates by Sex, Document Type and Province, Industry, 1996 and 2001 Censuses, Weighted*

	CAN		NFLD		PEI		NS		NB		QUE		ONT		MAN		SASK		ALTA		BC		YUK		NWT		NUN	
	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001
	(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)	
Both Sexes																												
All Document Types	4.9	6.1	5.1	5.3	5	5.2	5.2	5.2	5.1	5.7	4.4	5.6	5.4	6.5	3.8	4.8	4.7	5.2	4.5	5.9	5.2	7.1	5.9	7.7	3.8	7.2	..	..
Occupied Private 2B	4.8	6	5.1	5.3	4.9	5.1	5.1	5.2	5	5.7	4.3	5.6	5.3	6.3	3.6	4.6	4.5	5.1	4.4	5.8	5	6.8	5.4	4.9	4.6	4.8	..	50
Collective Household 2B	24	26	14	15	16	31	23	23	30	18	25	25	32	36	15	8	13	6.2	19	16	27	54	22	29	11	69	..	..
Overseas Household 2C	7.3	6.1	14	5.5	15	0	4.3	5.4	14	4.8	9.6	7.1	6	5.2	1.6	8	3.8	10	14	8.2	8.9	8.3	0	0	0	0	..	..
Occupied Private 2D	7.6	13	4.6	3.8	3.5	5.7	6.8	6	14	8	8.3	5	9.2	32	5.1	7.8	7.5	8.3	7.7	12	11	19	6.3	13	3.1	9.4	..	..
Collective Household 2D	13	23	20	..	0	..	0	0	0	100	13	27	13	16	27	23	0	22	13	58	12	32	12	11	9.7	16	...	11
Males																												
All Document Types	4.5	6.2	3.7	5.5	3.5	5.3	3.1	5.3	4.5	5.8	4.8	5.7	4.6	6.5	4.1	4.8	4.8	5.4	3.9	6.1	4.2	7.3	4	7.9	3.1	7.4	..	5.6
Occupied Private 2B	4.7	6.0	5.1	5.5	4.7	5.3	5.1	5.3	5.0	5.8	4.3	5.6	5.2	6.3	3.5	4.7	4.2	5.3	4.1	5.9	4.9	6.9	5.7	5.0	4.8	4.7	..	..
Collective Household 2B	25.6	28.2	16.8	16.6	16.9	26.8	20.5	24.7	32.9	17.7	24.6	25.0	32.9	35.8	18.0	9.8	16.0	7.8	20.6	19.0	28.2	56.5	25.3	33.8	8.0	76.1	..	..
Overseas Household 2C	4.8	3.8	4	6.7	2	0	3.3	4.5	3	0	8.5	4.4	3.6	2.9	2.1	3	6.3	10.3	4.6	7.4	3.7	5.1	0	0	0	0	..	0
Occupied Private 2D	7.6	13.7	4.5	4.7	3	3.2	7	7.2	14	7.9	8.6	4.9	9.2	3.3	4.9	8	7.3	8.5	7.5	12.1	11	13.7	6.6	12.8	3	9.6	..	5.2
Collective Household 2D	13.4	19.5	0	0	0	0	0	0	0	100	12.5	21.1	13.5	10.7	28.3	11.8	0	33.3	17.2	63.4	12.2	24.1	13.2	8.5	8.9	15.6	..	7

	CAN		NFLD		PEI		NS		NB		QUE		ONT		MAN		SASK		ALTA		BC		YUK		NWT		NUN	
	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001	1996	2001
	(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)		(%)	
Females																												
All Document Types	5	6.1	5.2	5.2	5.3	5	5.2	5	5	5.6	4.4	5.6	5.4	66	3.7	4.7	5	4.9	4.9	5.8	5.2	7	5.4	7.6	3.8	7	...	6.6
Occupied Private 2B	4.9	6	5.2	5.2	5.2	4.9	5.2	5	5	5.6	4.4	5.5	5.4	6.4	3.6	4.6	4.8	4.8	4.8	5.7	5.1	6.7	5.2	4.8	4.4	4.9	...	0
Collective Household 2B	21.7	20.7	11.2	13.3	14.6	38.3	28.3	19.0	22.8	20.2	25.9	24.1	31.2	35.2	10.4	5.7	10.3	4.1	16.4	10.4	23.0	47.9	11.8	18.2	17.2	52.6	...	0
Overseas Household 2C	9.7	9.2	22.6	4	17	0	8.2	6.8	17	12.5	12	10.6	8	8.2	0	15.2	4.3	10.5	19	9.2	15	13.3	0	0	0	0	...	0
Occupied Private 2D	7.6	13	4.8	2.6	4.1	6.9	6.6	4.7	15	8.2	8	5	9.1	31.3	5.4	7.6	7.8	8	8	11.7	11	18.8	6	13.2	3.1	9.2	...	6.1
Collective Household 2D	13.2	29.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	36.4	13.2	25.0	25.3	42.9	0.0	0.0	0.0	40.0	10.0	43.0	8.0	14.8	12.5	17.6	...	20.5

* Invalid included as a response.

Table B6. Net Effect of All Processing (Adjustments) by Industry, 2001 Census

Industry		Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
011-017	Agricultural industries	421,935	452,525	0.2
021-023	Service industries incidental to agriculture	48,855	51,175	-0.1
031	Fishing industries	47,030	50,095	0.7
032	Services incidental to fishing	5,280	5,705	2.1
033	Trapping	1,680	1,765	-1.5
041	Logging industry	71,980	76,390	-1.2
051	Forestry services industry	33,305	34,390	-3.6
061	Metal mines	36,435	37,885	-0.1
062	Non-metal mines (except coal)	11,640	12,075	-0.2
063	Coal mines	6,715	6,945	-0.1
071	Crude petroleum and natural gas industries	49,495	51,370	-0.4
081	Stone quarries	4,700	4,965	-0.1
082	Sand and gravel pits	6,555	6,950	-0.1
091	Service industries incidental to crude petroleum and natural gas	50,905	53,585	-0.2
092	Service industries incidental to mining	9,320	9,745	-1.0
101	Meat and poultry products industries	61,920	65,955	0.0
102	Fish products industry	42,765	45,390	-0.5
103	Fruit and vegetable industries	19,460	20,490	-0.7
104	Dairy products industries	21,620	22,705	0.0
105	Flour, prepared cereal food and feed industries	16,140	16,895	-0.1
106	Vegetable oil mills (except corn oil)	1,370	1,430	-0.7
107	Bakery products industries	32,030	34,365	0.0
108	Sugar and sugar confectionery industries	13,225	14,040	-0.1
109	Other food products industries	29,430	31,330	-0.1
111	Soft drink industry	8,215	8,625	-0.1
112	Distillery products industry	2,315	2,465	0.2
113	Brewery products industry	10,490	11,155	0.0
114	Wine industry	2,900	3,070	0.2
121	Leaf tobacco industry	370	415	0.0
122	Tobacco products industry	3,610	3,785	0.1
151	Tire and tube industry	10,405	10,760	0.0
152	Rubber hose and belting industry	2,840	2,960	0.2
159	Other rubber products industries	11,590	12,305	-0.2
161	Foamed and expanded plastic products industry	5,155	5,465	-0.2
162	Plastic pipe and pipe fittings industry	4,765	5,070	0.0
163	Plastic film and sheeting industry	4,795	5,085	0.0

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
169	Other plastic products industries	64,110	68,470	0.0
171	Leather and allied products industries	11,010	11,775	-0.2
181	Man-made fibre and filament yarn industry	4,450	4,650	0.0
182	Spun yarn and woven cloth industries	10,345	10,915	-0.1
183	Broad knitted fabric industry	3,145	3,280	0.2
191	Natural fibres processing and felt products industry	1,525	1,610	0.3
192	Carpet, mat and rug industry	4,165	4,395	-0.4
193	Canvas and related products industry	3,415	3,625	-0.1
199	Other textile products industries	25,340	27,215	-0.1
243	Men's and boys' clothing industries	28,075	30,230	0.0
244	Women's clothing industries	26,205	28,255	0.0
245	Children's clothing industry	3,970	4,385	0.1
249	Other clothing and apparel industries	52,745	57,515	0.0
251	Sawmill, planing mill and shingle mill products industries	83,990	90,205	1.0
252	Veneer and plywood industries	10,555	11,260	0.0
254	Sash, door and other millwork industries	57,205	60,415	0.0
256	Wooden box and pallet industry	5,540	5,990	-0.2
258	Coffin and casket industry	1,265	1,350	0.0
259	Other wood industries	15,615	16,435	-0.2
261	Household furniture industries	47,125	50,050	0.0
264	Office furniture industries	18,355	19,270	-2.7
269	Other furniture and fixture industries	23,850	25,570	-0.1
271	Pulp and paper industries	72,055	75,460	0.0
272	Asphalt roofing industry	1,250	1,345	0.0
273	Paper box and bag industries	19,445	20,645	0.0
279	Other converted paper products industries	13,770	14,625	0.0
281	Commercial printing industries	83,525	88,405	-0.1
282	Platemaking, typesetting and bindery industry	16,025	16,895	-0.7
283	Publishing industries	33,330	35,010	-0.1
284	Combined publishing and printing industries	39,250	41,520	-0.1
291	Primary steel industries	36,250	38,270	0.0
292	Steel pipe and tube industry	6,775	7,165	0.0
294	Iron foundries	5,105	5,365	-0.1
295	Non-ferrous metal smelting and refining industries	19,095	19,925	-0.1
296	Aluminum rolling, casting and extruding industry	10,325	10,775	0.0
297	Copper and copper alloy rolling, casting and extruding industry	2,655	2,765	0.2

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
299	Other rolled, cast and extruded non-ferrous metal products industries	6,970	7,330	0.0
301	Power boiler and heat exchanger industry	4,365	4,600	0.0
302	Fabricated structural metal products industries	27,580	29,265	-0.2
303	Ornamental and architectural metal products industries	18,335	19,450	-0.2
304	Stamped, pressed and coated metal products industries	34,870	36,980	0.0
305	Wire and wire products industries	14,970	16,045	-0.2
306	Hardware, tool and cutlery industries	34,860	36,800	-0.2
307	Heating equipment industry	5,825	6,120	0.0
308	Machine shop industry	37,885	39,895	-0.1
309	Other metal fabricating industries	24,040	25,380	-0.1
311	Agricultural implement industry	10,395	10,890	0.0
312	Commercial refrigeration and air conditioning equipment industry	5,350	5,635	0.0
319	Other machinery and equipment industries	84,475	89,335	0.5
321	Aircraft and aircraft parts industry	56,715	59,460	-0.2
323	Motor vehicle industry	67,960	71,360	-0.1
324	Truck and bus body and trailer industries	18,365	19,360	0.0
325	Motor vehicle parts and accessories industries	137,265	145,395	0.0
326	Railroad rolling stock industry	10,825	11,460	0.0
327	Shipbuilding and repair industry	6,280	6,630	-0.2
328	Boatbuilding and repair industry	9,015	9,510	-0.3
329	Other transportation equipment industries	5,240	5,505	0.0
331	Small electrical appliance industry	2,375	3,305	29.7
332	Major appliance industry (electric and non-electric)	6,850	7,975	12.6
333	Electric lighting industries	7,315	7,800	0.0
334	Record player, radio and television receiver industry	1,640	1,755	-0.3
335	Communication and other electronic equipment industries	91,380	99,815	3.7
336	Office, store and business machine industries	16,965	18,575	3.1
337	Electrical industrial equipment industries	20,820	21,975	-0.1
338	Communications and energy wire and cable industry	18,265	13,075	-32.0
339	Other electrical products industries	7,435	8,415	6.2
351	Clay products industries	4,555	4,855	-0.8
352	Hydraulic cement industry	3,025	3,230	-0.2
354	Concrete products industries	10,185	10,840	-0.2

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
355	Ready-mix concrete industry	10,985	11,545	-0.1
356	Glass and glass products industries	13,345	14,080	-0.4
357	Abrasives industry	1,490	1,595	0.0
358	Lime industry	620	635	0.0
359	Other non-metallic mineral products industries	11,590	12,220	-0.1
361	Refined petroleum products industries	13,605	14,090	-0.2
369	Other petroleum and coal products industries	1,020	1,095	0.5
371	Industrial chemicals industries, n.e.c.	17,755	18,580	-0.1
372	Agricultural chemical industries	5,050	5,270	-0.3
373	Plastic and synthetic resin industry	6,820	7,130	-0.1
374	Pharmaceutical and medicine industry	29,460	30,650	0.0
375	Paint and varnish industry	7,790	8,210	-0.1
376	Soap and cleaning compounds industry	5,680	6,015	-0.2
377	Toilet preparations industry	8,190	8,680	-0.4
379	Other chemical products industries	15,135	16,010	-0.1
391	Scientific and professional equipment industries	26,645	28,120	-0.3
392	Jewellery and precious metal industries	6,705	7,140	-0.2
393	Sporting goods and toy industries	15,735	16,745	-0.1
397	Sign and display industry	14,305	15,015	-0.2
399	Other manufactured products industries	44,990	47,670	-0.2
401	Residential building and development	126,330	159,205	19.6
402	Non-residential building and development	39,195	41,470	0.0
411	Industrial construction (other than buildings)	23,830	25,110	0.0
412	Highway and heavy construction	68,270	72,790	0.3
421	Site work	108,765	115,430	-0.1
422	Structural and related work	48,570	69,020	35.6
423	Exterior close-in work	77,645	82,545	0.0
424	Plumbing, heating and air conditioning, mechanical work	90,785	95,265	0.0
425	Mechanical specialty work	20,900	21,820	0.0
426	Electrical work	95,110	99,670	-0.1
427	Interior and finishing work	138,255	147,625	0.6
429	Other trade work	75,760	35,840	-55.6
441	Project management, construction	10,640	9,660	-14.6
449	Other services incidental to construction	14,315	15,655	3.6
451	Air transport industries	70,855	74,935	1.5
452	Service industries incidental to air transport	28,275	27,600	-7.1
453	Railway transport and related service industries	46,695	48,780	0.0

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
454	Water transport industries	18,930	19,995	-0.2
455	Service industries incidental to water transport	12,975	13,735	-0.2
456	Truck transport industries	265,685	281,405	-0.1
457	Public passenger transit systems industries	90,505	95,365	-0.1
458	Other transportation industries	42,645	45,475	1.1
459	Other service industries incidental to transportation	59,530	63,085	-0.2
461	Pipeline transport industries	6,730	7,060	0.0
471	Grain elevator industry	3,745	3,950	-0.5
479	Other storage and warehousing industries	20,725	22,370	-0.2
481	Telecommunication broadcasting industries	57,745	60,220	-0.1
482	Telecommunication carriers industry	120,555	126,640	-0.1
483	Other telecommunication industries	1,810	1,970	0.0
484	Postal and courier service industries	130,435	140,895	2.5
491	Electric power systems industry	92,105	95,915	-0.1
492	Gas distribution systems industry	15,780	16,530	-0.1
493	Water systems industry	14,035	14,765	-0.2
499	Other utility industries, n.e.c.	30,060	31,865	-0.1
501	Farm products, wholesale	12,975	13,680	0.0
511	Petroleum products, wholesale	25,720	25,905	-4.0
521	Food, wholesale	87,795	93,130	-0.3
522	Beverages, wholesale	16,840	15,845	-10.9
523	Drugs and toilet preparations, wholesale	31,825	32,810	-2.5
524	Tobacco products, wholesale	1,755	1,880	-0.9
531	Apparel, wholesale	17,705	18,455	-4.2
532	Dry goods, wholesale	5,495	5,920	-0.1
541	Electrical and electronic household appliances and parts, wholesale	7,315	7,785	-0.1
542	Household furniture, wholesale	2,245	2,405	-0.2
543	Household furnishings, wholesale	10,160	10,960	0.0
551	Motor vehicles, wholesale	27,415	27,385	-5.1
552	Motor vehicle parts and accessories, wholesale	37,270	39,540	0.0
561	Metal and metal products, wholesale	17,725	18,880	-0.1
562	Hardware and plumbing, heating and air conditioning equipment and supplies, wholesale	32,305	34,365	-0.1
563	Lumber and building materials, wholesale	98,840	105,075	0.0
571	Farm machinery, equipment and supplies, wholesale	21,440	21,025	-6.3
572	Construction, forestry and mining machinery, equipment and supplies, wholesale	23,700	24,090	-2.8

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
573	Industrial machinery, equipment and supplies, wholesale	44,440	46,795	-0.1
574	Electrical and electronic machinery, equipment and supplies, wholesale	96,885	107,645	5.4
579	Other machinery, equipment and supplies, wholesale	71,425	75,350	-0.1
591	Waste materials, wholesale	28,535	29,390	-3.2
592	Paper and paper products, wholesale	20,635	21,990	0.0
593	Agricultural supplies, wholesale	18,235	18,045	-6.0
594	Toys, amusement and sporting goods, wholesale	8,200	8,800	-0.1
595	Photographic equipment and musical instruments and supplies, wholesale	3,780	3,970	-0.3
596	Jewellery and watches, wholesale	3,170	3,455	0.2
597	Industrial and household chemicals, wholesale	12,625	13,225	0.0
598	General merchandise, wholesale	6,820	7,290	-0.1
599	Other products, n.e.c., wholesale	35,430	37,775	-0.2
601	Food stores	459,665	491,445	-0.2
602	Liquor, wine and beer stores	24,920	26,545	-0.1
603	Prescription drugs and patent medicine stores	110,460	117,730	0.9
611	Shoe stores	21,920	23,490	-0.1
612	Men's clothing stores	12,685	13,590	0.0
613	Women's clothing stores	56,050	60,550	1.3
614	Clothing stores, n.e.c.	75,105	80,090	0.0
615	Fabric and yarn stores	8,930	9,550	-0.1
621	Household furniture stores	39,355	41,705	-0.1
622	Appliance, television, radio and stereo stores	45,735	48,300	-0.1
623	Household furnishings stores	26,400	27,720	-0.1
631	Automobile dealers	126,755	135,405	1.1
632	Recreational vehicle dealers	17,605	18,435	-0.1
633	Gasoline service stations	71,290	77,545	1.4
634	Automotive parts and accessories stores	53,590	57,905	1.7
635	Motor vehicle repair shops	145,020	152,745	-0.1
639	Other motor vehicle services	19,260	20,385	-0.1
641	General merchandise stores	212,375	225,895	-0.3
651	Book and stationery stores	28,685	30,410	-0.1
652	Florists, lawn and garden centres	28,245	31,925	6.4
653	Hardware, paint, glass and wallpaper stores	30,720	32,615	-0.1
654	Sporting goods and bicycle shops	40,225	42,710	-0.1
655	Musical instrument and record stores	12,245	12,940	0.0

Industry		Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
656	Jewellery stores and watch and jewellery repair shops	23,300	24,580	0.0
657	Camera and photographic supply stores	10,815	11,405	-0.1
658	Toy, hobby, novelty and souvenir stores	41,065	43,585	-0.2
659	Other retail stores	99,075	107,950	2.7
691	Vending machine operators	4,705	5,030	0.0
692	Direct sellers	56,300	89,280	51.2
701-709	Deposit accepting intermediary industries	281,430	294,980	-0.1
711-712	Consumer and business financing intermediary industries	29,095	30,395	-0.2
721-729	Investment intermediary industries	55,130	58,355	0.7
731-733	Insurance industries	133,230	138,200	-0.8
741-749	Other financial intermediary industries	86,835	90,235	-0.7
751	Operators of buildings and dwellings	113,045	118,155	-1.5
759	Other real estate operators	2,620	2,720	-1.1
761	Insurance and real estate agencies	165,780	175,235	1.2
771	Employment agencies and personnel suppliers	88,670	94,545	-0.3
772	Computer and related services	326,110	334,755	-1.9
773	Accounting and bookkeeping services	135,990	141,695	-0.7
774	Advertising services	102,905	108,020	-0.3
775	Architectural, engineering and other scientific and technical services	232,225	248,915	2.9
776	Offices of lawyers and notaries	120,290	125,455	0.3
777	Management consulting services	88,640	91,275	-1.9
779	Other business services	273,480	263,140	-8.9
811	Defence services	92,740	99,835	2.4
812-817	Other federal government service industries	274,015	285,765	0.1
822-827	Provincial and territorial government service industries	244,015	256,390	1.1
832-837	Local government service industries	285,535	302,155	0.3
841	International and other extra-territorial agencies	3,310	3,405	-1.1
851	Elementary and secondary education	698,050	754,485	4.4
852	Post-secondary non-university education	131,475	144,755	6.1
853	University education	189,170	196,275	-0.5
854	Library services	31,140	32,415	-0.7
855	Museums and archives	18,250	18,940	-1.3
859	Other educational services	40,405	30,310	-28.7
861	Hospitals	522,285	540,050	-0.6
862	Other institutional health and social services	270,575	284,300	0.2

	Industry	Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
863	Non-institutional health services	123,425	128,500	0.0
864	Non-institutional social services	389,530	416,060	1.5
865	Offices of physicians, surgeons and dentists, private practice	184,790	192,655	0.3
866	Offices of other health practitioners	65,580	66,400	-2.5
867	Offices of social services practitioners	9,770	10,075	0.4
868	Medical and other health laboratories	27,935	30,540	5.0
869	Health and social service associations and agencies	35,900	37,470	-0.4
911	Hotels, motels and tourist courts	158,475	149,810	-12.0
912	Lodging houses and residential clubs	2,040	2,135	-3.2
913	Camping grounds and travel trailer parks	7,690	8,210	-1.4
914	Recreation and vacation camps	22,210	24,505	-0.4
921	Food services	890,505	957,870	0.1
922	Taverns, bars and night clubs	62,825	66,530	-0.1
961	Motion picture, audio and video production and distribution	50,875	53,410	0.0
962	Motion picture exhibition	16,745	14,635	-18.8
963	Theatrical and other staged entertainment services	44,070	46,510	0.5
964	Commercial spectator sports	19,730	21,145	-0.1
965	Sports and recreation clubs and services	84,320	90,985	-0.2
966	Gambling operations	45,745	48,250	-0.1
969	Other amusement and recreational services	72,380	77,815	-0.4
971	Barber and beauty shops	115,885	120,840	0.0
972	Laundries and cleaners	43,040	45,880	0.0
973	Funeral services	13,645	14,495	1.0
974	Private households	28,860	30,020	-3.2
979	Other personal and household services	99,205	102,315	-3.8
981	Religious organizations	70,000	73,220	-0.4
982	Business associations	16,535	17,360	-0.5
983	Professional membership associations	9,030	9,335	-0.7
984	Labour organizations	18,235	19,040	-0.4
985	Political organizations	1,370	1,350	-7.3
986	Civic and fraternal organizations	37,030	38,960	-0.8
991	Machinery and equipment rental and leasing services	45,815	48,590	-0.1
992	Automobile and truck rental and leasing services	19,340	20,445	-0.1
993	Photographers	12,905	14,145	5.0
994	Other repair services	39,520	41,740	-0.1

Industry		Unadjusted Data	Final Data	Net Movement, Excluding Imputation %
995	Services to buildings and dwellings	179,980	193,215	-0.1
996	Travel services	50,065	53,370	1.6
999	Other services, n.e.c.	63,380	67,610	1.6
Total		16,055,620	16,961,455	0.1

Table B7. Detailed Industry Distributions, 1991 to 2001 Censuses, Experienced Labour Force, Weighted

SIC80	Weighted			% Change		% Distribution	
	1991	1996	2001	91-96	96-01	1996	2001
011-017 Agricultural industries	513,030	490,355	452,515	-4.4	-7.7	3.2	2.7
021-023 Service industries incidental to agriculture	32,685	46,605	51,175	42.6	9.8	0.3	0.3
031 Fishing industries	48,240	46,890	50,090	-2.8	6.8	0.3	0.3
032 Services incidental to fishing	4,545	5,185	5,710	14.1	10.1	0.0	0.0
033 Trapping	1,495	2,175	1,765	45.5	-18.9	0.0	0.0
041 Logging industry	73,460	76,495	76,375	4.1	-0.2	0.5	0.5
051 Forestry services industry	39,030	39,245	34,385	0.6	-12.4	0.3	0.2
061 Metal mines	56,685	46,300	37,885	-18.3	-18.2	0.3	0.2
062 Non-metal mines (except coal)	14,020	12,360	12,070	-11.8	-2.3	0.1	0.1
063 Coal mines	12,335	10,520	6,950	-14.7	-33.9	0.1	0.0
071 Crude petroleum and natural gas industries	57,765	46,255	51,370	-19.9	11.1	0.3	0.3
081 Stone quarries	4,895	4,125	4,965	-15.7	20.4	0.0	0.0
082 Sand and gravel pits	7,055	7,230	6,950	2.5	-3.9	0.0	0.0
091 Service industries incidental to crude petroleum and natural gas	31,790	37,910	53,585	19.3	41.3	0.2	0.3
092 Service industries incidental to mining	10,050	12,570	9,740	25.1	-22.5	0.1	0.1
101 Meat and poultry products industries	50,970	57,060	65,950	11.9	15.6	0.4	0.4
102 Fish products industry	67,690	50,060	45,385	-26.0	-9.3	0.3	0.3
103 Fruit and vegetable industries	19,265	19,855	20,490	3.1	3.2	0.1	0.1
104 Dairy products industries	27,010	25,855	22,700	-4.3	-12.2	0.2	0.1
105 Flour, prepared cereal food and feed industries	15,875	16,480	16,890	3.8	2.5	0.1	0.1
106 Vegetable oil mills (except corn oil)	820	1,505	1,425	83.5	-5.3	0.0	0.0
107 Bakery products industries	29,365	33,730	34,365	14.9	1.9	0.2	0.2
108 Sugar and sugar confectionery industries	10,395	13,535	14,040	30.2	3.7	0.1	0.1
109 Other food products industries	37,535	33,605	31,330	-10.5	-6.8	0.2	0.2
111 Soft drink industry	15,115	11,525	8,625	-23.8	-25.2	0.1	0.1
112 Distillery products industry	3,640	3,080	2,465	-15.4	-20.0	0.0	0.0
113 Brewery products industry	14,700	12,040	11,150	-18.1	-7.4	0.1	0.1
114 Wine industry	1,840	2,140	3,070	16.3	43.5	0.0	0.0
121 Leaf tobacco industry	460	770	415	67.4	-46.1	0.0	0.0
122 Tobacco products industry	4,395	4,810	3,785	9.4	-21.3	0.0	0.0
151 Tire and tube industry	16,595	10,215	10,765	-38.4	5.4	0.1	0.1
152 Rubber hose and belting industry	1,385	2,540	2,960	83.4	16.5	0.0	0.0
159 Other rubber products industries	5,545	12,860	12,310	131.9	-4.3	0.1	0.1

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
161	Foamed and expanded plastic products industry	14,860	5,490	5,465	-63.1	-0.5	0.0	0.0
162	Plastic pipe and pipe fittings industry	2,515	4,280	5,070	70.2	18.5	0.0	0.0
163	Plastic film and sheeting industry	2,415	4,965	5,085	105.6	2.4	0.0	0.0
169	Other plastic products industries	36,865	51,925	68,475	40.9	31.9	0.3	0.4
171	Leather and allied products industries	19,505	16,385	11,775	-16.0	-28.1	0.1	0.1
181	Man-made fibre and filament yarn industry	8,205	5,100	4,650	-37.8	-8.8	0.0	0.0
182	Spun yarn and woven cloth industries	10,330	12,205	10,915	18.2	-10.6	0.1	0.1
183	Broad knitted fabric industry	1,965	3,025	3,280	53.9	8.4	0.0	0.0
191	Natural fibres processing and felt products industry	1,605	1,855	1,610	15.6	-13.2	0.0	0.0
192	Carpet, mat and rug industry	5,705	4,500	4,395	-21.1	-2.3	0.0	0.0
193	Canvas and related products industry	3,160	2,955	3,625	-6.5	22.7	0.0	0.0
199	Other textile products industries	24,530	28,750	27,215	17.2	-5.3	0.2	0.2
243	Men's and boys' clothing industries	36,440	33,835	30,230	-7.1	-10.7	0.2	0.2
244	Women's clothing industries	38,785	33,475	28,255	-13.7	-15.6	0.2	0.2
245	Children's clothing industry	7,170	8,070	4,380	12.6	-45.7	0.1	0.0
249	Other clothing and apparel industries	47,835	50,095	57,520	4.7	14.8	0.3	0.3
251	Sawmill, planing mill and shingle mill products industries	72,620	84,660	90,200	16.6	6.5	0.5	0.5
252	Veneer and plywood industries	9,140	10,850	11,260	18.7	3.8	0.1	0.1
254	Sash, door and other millwork industries	35,560	45,465	60,415	27.9	32.9	0.3	0.4
256	Wooden box and pallet industry	3,600	5,135	5,990	42.6	16.7	0.0	0.0
258	Coffin and casket industry	930	1,115	1,345	19.9	20.6	0.0	0.0
259	Other wood industries	10,980	15,325	16,440	39.6	7.3	0.1	0.1
261	Household furniture industries	36,225	33,410	50,045	-7.8	49.8	0.2	0.3
264	Office furniture industries	9,375	10,815	19,275	15.4	78.2	0.1	0.1
269	Other furniture and fixture industries	12,720	19,510	25,570	53.4	31.1	0.1	0.2
271	Pulp and paper industries	93,900	81,350	75,450	-13.4	-7.3	0.5	0.4
272	Asphalt roofing industry	1,680	2,070	1,345	23.2	-35.0	0.0	0.0
273	Paper box and bag industries	12,200	19,225	20,650	57.6	7.4	0.1	0.1
279	Other converted paper products industries	20,540	18,930	14,625	-7.8	-22.7	0.1	0.1
281	Commercial printing industries	86,810	85,720	88,400	-1.3	3.1	0.6	0.5
282	Platemaking, typesetting and bindery industry	20,275	19,530	16,895	-3.7	-13.5	0.1	0.1
283	Publishing industries	24,645	32,530	35,010	32.0	7.6	0.2	0.2
284	Combined publishing and printing industries	53,010	51,790	41,520	-2.3	-19.8	0.3	0.2

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
291	Primary steel industries	58,255	41,355	38,275	-29.0	-7.4	0.3	0.2
292	Steel pipe and tube industry	7,610	6,765	7,170	-11.1	6.0	0.0	0.0
294	Iron foundries	7,345	7,645	5,365	4.1	-29.8	0.0	0.0
295	Non-ferrous metal smelting and refining industries	26,760	25,495	19,930	-4.7	-21.8	0.2	0.1
296	Aluminum rolling, casting and extruding industry	7,900	5,490	10,775	-30.5	96.3	0.0	0.1
297	Copper and copper alloy rolling, casting and extruding industry	2,750	2,815	2,770	2.4	-1.6	0.0	0.0
299	Other rolled, cast and extruded non-ferrous metal products industries	5,420	7,065	7,330	30.4	3.8	0.0	0.0
301	Power boiler and heat exchanger industry	5,325	4,420	4,600	-17.0	4.1	0.0	0.0
302	Fabricated structural metal products industries	17,680	20,195	29,260	14.2	44.9	0.1	0.2
303	Ornamental and architectural metal products industries	18,415	18,940	19,450	2.9	2.7	0.1	0.1
304	Stamped, pressed and coated metal products industries	24,945	33,485	36,980	34.2	10.4	0.2	0.2
305	Wire and wire products industries	11,245	14,455	16,045	28.5	11.0	0.1	0.1
306	Hardware, tool and cutlery industries	26,470	29,750	36,800	12.4	23.7	0.2	0.2
307	Heating equipment industry	3,635	5,570	6,120	53.2	9.9	0.0	0.0
308	Machine shop industry	34,100	36,620	39,890	7.4	8.9	0.2	0.2
309	Other metal fabricating industries	17,995	19,520	25,380	8.5	30.0	0.1	0.1
311	Agricultural implement industry	9,170	11,810	10,890	28.8	-7.8	0.1	0.1
312	Commercial refrigeration and air conditioning equipment industry	5,300	4,175	5,630	-21.2	34.9	0.0	0.0
319	Other machinery and equipment industries	64,920	75,300	89,335	16.0	18.6	0.5	0.5
321	Aircraft and aircraft parts industry	46,790	41,775	59,460	-10.7	42.3	0.3	0.4
323	Motor vehicle industry	77,435	65,165	71,355	-15.8	9.5	0.4	0.4
324	Truck and bus body and trailer industries	14,315	18,145	19,360	26.8	6.7	0.1	0.1
325	Motor vehicle parts and accessories industries	82,525	111,340	145,395	34.9	30.6	0.7	0.9
326	Railroad rolling stock industry	8,730	10,205	11,460	16.9	12.3	0.1	0.1
327	Shipbuilding and repair industry	14,890	10,010	6,635	-32.8	-33.7	0.1	0.0
328	Boatbuilding and repair industry	6,650	7,680	9,510	15.5	23.8	0.0	0.1
329	Other transportation equipment industries	2,535	6,510	5,505	156.8	-15.4	0.0	0.0
331	Small electrical appliance industry	4,925	3,580	3,305	-27.3	-7.7	0.0	0.0

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
332	Major appliance industry (electric and non-electric)	8,030	8,040	7,975	0.1	-0.8	0.1	0.0
333	Electric lighting industries	10,900	6,645	7,800	-39.0	17.4	0.0	0.0
334	Record player, radio and television receiver industry	4,035	2,965	1,750	-26.5	-41.0	0.0	0.0
335	Communication and other electronic equipment industries	50,480	67,350	99,815	33.4	48.2	0.4	0.6
336	Office, store and business machine industries	24,470	21,090	18,575	-13.8	-11.9	0.1	0.1
337	Electrical industrial equipment industries	21,395	19,820	21,975	-7.4	10.9	0.1	0.1
338	Communications and energy wire and cable industry	8,935	6,925	13,075	-22.5	88.8	0.0	0.1
339	Other electrical products industries	7,845	9,230	8,415	17.7	-8.8	0.1	0.0
351	Clay products industries	5,455	4,400	4,855	-19.3	10.3	0.0	0.0
352	Hydraulic cement industry	4,430	3,905	3,230	-11.9	-17.3	0.0	0.0
354	Concrete products industries	9,730	10,600	10,840	8.9	2.3	0.1	0.1
355	Ready-mix concrete industry	12,085	11,150	11,545	-7.7	3.5	0.1	0.1
356	Glass and glass products industries	14,625	14,225	14,080	-2.7	-1.0	0.1	0.1
357	Abrasives industry	2,055	2,355	1,595	14.6	-32.3	0.0	0.0
358	Lime industry	795	845	635	6.3	-24.9	0.0	0.0
359	Other non-metallic mineral products industries	11,595	11,150	12,215	-3.8	9.6	0.1	0.1
361	Refined petroleum products industries	17,065	14,385	14,095	-15.7	-2.0	0.1	0.1
369	Other petroleum and coal products industries	1,510	1,790	1,095	18.5	-38.8	0.0	0.0
371	Industrial chemicals industries, n.e.c.	19,090	21,005	18,585	10.0	-11.5	0.1	0.1
372	Agricultural chemical industries	4,790	6,595	5,270	37.7	-20.1	0.0	0.0
373	Plastic and synthetic resin industry	10,790	7,970	7,135	-26.1	-10.5	0.1	0.0
374	Pharmaceutical and medicine industry	24,115	25,480	30,650	5.7	20.3	0.2	0.2
375	Paint and varnish industry	7,685	8,080	8,210	5.1	1.6	0.1	0.0
376	Soap and cleaning compounds industry	8,640	7,780	6,015	-10.0	-22.7	0.1	0.0
377	Toilet preparations industry	9,455	7,775	8,680	-17.8	11.6	0.1	0.1
379	Other chemical products industries	23,675	17,000	16,015	-28.2	-5.8	0.1	0.1
391	Scientific and professional equipment industries	19,580	25,415	28,120	29.8	10.6	0.2	0.2
392	Jewellery and precious metal industries	8,185	8,290	7,140	1.3	-13.9	0.1	0.0
393	Sporting goods and toy industries	12,560	18,740	16,750	49.2	-10.6	0.1	0.1
397	Sign and display industry	11,545	13,785	15,015	19.4	8.9	0.1	0.1

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
399	Other manufactured products industries	40,930	39,170	47,670	-4.3	21.7	0.3	0.3
401	Residential building and development	219,995	179,090	159,180	-18.6	-11.1	1.2	0.9
402	Non-residential building and development	42,695	44,595	41,470	4.5	-7.0	0.3	0.2
411	Industrial construction (other than buildings)	31,180	22,800	25,105	-26.9	10.1	0.1	0.1
412	Highway and heavy construction	65,510	74,270	72,795	13.4	-2.0	0.5	0.4
421	Site work	104,885	105,805	115,435	0.9	9.1	0.7	0.7
422	Structural and related work	64,925	43,730	69,015	-32.6	57.8	0.3	0.4
423	Exterior close-in work	75,300	67,965	82,545	-9.7	21.5	0.4	0.5
424	Plumbing, heating and air conditioning, mechanical work	77,920	78,120	95,265	0.3	21.9	0.5	0.6
425	Mechanical specialty work	18,630	21,065	21,820	13.1	3.6	0.1	0.1
426	Electrical work	78,145	75,010	99,675	-4.0	32.9	0.5	0.6
427	Interior and finishing work	130,605	137,855	147,620	5.6	7.1	0.9	0.9
429	Other trade work	19,900	20,280	35,840	1.9	76.7	0.1	0.2
441	Project management, construction	10,930	5,900	9,660	-46.0	63.7	0.0	0.1
449	Other services incidental to construction	14,780	12,290	15,660	-16.8	27.4	0.1	0.1
451	Air transport industries	68,315	64,095	74,930	-6.2	16.9	0.4	0.4
452	Service industries incidental to air transport	14,385	18,070	27,595	25.6	52.7	0.1	0.2
453	Railway transport and related service industries	72,245	56,720	48,780	-21.5	-14.0	0.4	0.3
454	Water transport industries	22,050	21,645	19,990	-1.8	-7.6	0.1	0.1
455	Service industries incidental to water transport	15,670	13,095	13,730	-16.4	4.8	0.1	0.1
456	Truck transport industries	197,360	238,375	281,395	20.8	18.0	1.5	1.7
457	Public passenger transit systems industries	83,570	93,170	95,360	11.5	2.4	0.6	0.6
458	Other transportation industries	40,385	42,675	45,480	5.7	6.6	0.3	0.3
459	Other service industries incidental to transportation	44,805	57,605	63,085	28.6	9.5	0.4	0.4
461	Pipeline transport industries	10,430	9,425	7,060	-9.6	-25.1	0.1	0.0
471	Grain elevator industry	8,165	4,920	3,955	-39.7	-19.6	0.0	0.0
479	Other storage and warehousing industries	13,340	17,560	22,365	31.6	27.4	0.1	0.1
481	Telecommunication broadcasting industries	60,155	56,670	60,215	-5.8	6.3	0.4	0.4
482	Telecommunication carriers industry	135,710	123,465	126,640	-9.0	2.6	0.8	0.7
483	Other telecommunication industries	2,875	3,580	1,970	24.5	-45.0	0.0	0.0

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
484	Postal and courier service industries	128,780	137,105	140,895	6.5	2.8	0.9	0.8
491	Electric power systems industry	112,885	93,240	95,915	-17.4	2.9	0.6	0.6
492	Gas distribution systems industry	16,180	18,665	16,530	15.4	-11.4	0.1	0.1
493	Water systems industry	7,450	10,810	14,760	45.1	36.5	0.1	0.1
499	Other utility industries, n.e.c.	21,435	28,620	31,865	33.5	11.3	0.2	0.2
501	Farm products, wholesale	10,710	13,160	13,675	22.9	3.9	0.1	0.1
511	Petroleum products, wholesale	28,055	27,605	25,905	-1.6	-6.2	0.2	0.2
521	Food, wholesale	76,980	80,830	93,130	5.0	15.2	0.5	0.5
522	Beverages, wholesale	8,110	8,710	15,845	7.4	81.9	0.1	0.1
523	Drugs and toilet preparations, wholesale	16,825	22,395	32,815	33.1	46.5	0.1	0.2
524	Tobacco products, wholesale	1,975	2,935	1,880	48.6	-35.9	0.0	0.0
531	Apparel, wholesale	12,775	17,030	18,450	33.3	8.3	0.1	0.1
532	Dry goods, wholesale	6,810	6,015	5,925	-11.7	-1.5	0.0	0.0
541	Electrical and electronic household appliances and parts, wholesale	9,420	8,260	7,785	-12.3	-5.8	0.1	0.0
542	Household furniture, wholesale	2,875	1,840	2,405	-36.0	30.7	0.0	0.0
543	Household furnishings, wholesale	9,820	10,140	10,960	3.3	8.1	0.1	0.1
551	Motor vehicles, wholesale	16,925	19,430	27,385	14.8	40.9	0.1	0.2
552	Motor vehicle parts and accessories, wholesale	27,000	42,920	39,540	59.0	-7.9	0.3	0.2
561	Metal and metal products, wholesale	19,840	15,025	18,880	-24.3	25.7	0.1	0.1
562	Hardware and plumbing, heating and air conditioning equipment and supplies, wholesale	29,235	31,475	34,365	7.7	9.2	0.2	0.2
563	Lumber and building materials, wholesale	62,935	73,675	105,070	17.1	42.6	0.5	0.6
571	Farm machinery, equipment and supplies, wholesale	18,870	20,890	21,025	10.7	0.6	0.1	0.1
572	Construction, forestry and mining machinery, equipment and supplies, wholesale	15,555	19,075	24,090	22.6	26.3	0.1	0.1
573	Industrial machinery, equipment and supplies, wholesale	27,365	38,050	46,795	39.0	23.0	0.2	0.3
574	Electrical and electronic machinery, equipment and supplies, wholesale	56,615	90,540	107,640	59.9	18.9	0.6	0.6
579	Other machinery, equipment and supplies, wholesale	59,730	66,525	75,345	11.4	13.3	0.4	0.4
591	Waste materials, wholesale	18,950	30,830	29,390	62.7	-4.7	0.2	0.2
592	Paper and paper products, wholesale	15,170	16,115	21,995	6.2	36.5	0.1	0.1
593	Agricultural supplies, wholesale	8,755	14,045	18,045	60.4	28.5	0.1	0.1

SIC80		Weighted			% Change		% Distribution	
		1991	1996	2001	91-96	96-01	1996	2001
594	Toys, amusement and sporting goods, wholesale	6,900	9,155	8,795	32.7	-3.9	0.1	0.1
595	Photographic equipment and musical instruments and supplies, wholesale	4,595	4,870	3,975	6.0	-18.4	0.0	0.0
596	Jewellery and watches, wholesale	2,490	3,720	3,450	49.4	-7.3	0.0	0.0
597	Industrial and household chemicals, wholesale	7,795	10,935	13,225	40.3	20.9	0.1	0.1
598	General merchandise, wholesale	7,705	6,225	7,285	-19.2	17.0	0.0	0.0
599	Other products, n.e.c., wholesale	30,645	43,555	37,775	42.1	-13.3	0.3	0.2
601	Food stores	445,645	461,065	491,440	3.5	6.6	3.0	2.9
602	Liquor, wine and beer stores	23,815	23,510	26,545	-1.3	12.9	0.2	0.2
603	Prescription drugs and patent medicine stores	96,460	105,740	117,730	9.6	11.3	0.7	0.7
611	Shoe stores	26,610	23,155	23,490	-13.0	1.4	0.1	0.1
612	Men's clothing stores	24,540	16,775	13,590	-31.6	-19.0	0.1	0.1
613	Women's clothing stores	65,745	62,300	60,545	-5.2	-2.8	0.4	0.4
614	Clothing stores, n.e.c.	56,390	66,565	80,090	18.0	20.3	0.4	0.5
615	Fabric and yarn stores	11,685	10,995	9,555	-5.9	-13.1	0.1	0.1
621	Household furniture stores	44,910	37,925	41,710	-15.6	10.0	0.2	0.2
622	Appliance, television, radio and stereo stores	41,655	43,995	48,300	5.6	9.8	0.3	0.3
623	Household furnishings stores	25,780	26,865	27,725	4.2	3.2	0.2	0.2
631	Automobile dealers	115,355	126,340	135,405	9.5	7.2	0.8	0.8
632	Recreational vehicle dealers	10,690	13,440	18,440	25.7	37.2	0.1	0.1
633	Gasoline service stations	102,965	92,585	77,540	-10.1	-16.2	0.6	0.5
634	Automotive parts and accessories stores	50,315	55,470	57,900	10.2	4.4	0.4	0.3
635	Motor vehicle repair shops	140,540	132,670	152,745	-5.6	15.1	0.9	0.9
639	Other motor vehicle services	14,365	17,940	20,390	24.9	13.7	0.1	0.1
641	General merchandise stores	279,325	230,500	225,885	-17.5	-2.0	1.5	1.3
651	Book and stationery stores	29,775	30,000	30,415	0.8	1.4	0.2	0.2
652	Florists, lawn and garden centres	26,195	30,515	31,925	16.5	4.6	0.2	0.2
653	Hardware, paint, glass and wallpaper stores	53,125	44,305	32,615	-16.6	-26.4	0.3	0.2
654	Sporting goods and bicycle shops	28,305	35,620	42,700	25.8	19.9	0.2	0.3
655	Musical instrument and record stores	12,835	12,925	12,940	0.7	0.1	0.1	0.1
656	Jewellery stores and watch and jewellery repair shops	27,895	23,815	24,575	-14.6	3.2	0.2	0.1
657	Camera and photographic supply stores	9,090	7,570	11,400	-16.7	50.6	0.0	0.1

SIC80		Weighted			% Change		% Distribution	
		1991	1996	2001	91-96	96-01	1996	2001
658	Toy, hobby, novelty and souvenir stores	41,190	44,775	43,585	8.7	-2.7	0.3	0.3
659	Other retail stores	69,215	94,125	107,950	36.0	14.7	0.6	0.6
691	Vending machine operators	4,375	5,370	5,030	22.7	-6.3	0.0	0.0
692	Direct sellers	40,670	75,480	89,275	85.6	18.3	0.5	0.5
701-709	Deposit accepting intermediary industries	325,210	303,995	294,970	-6.5	-3.0	2.0	1.7
711-712	Consumer and business financing intermediary industries	21,840	20,875	30,395	-4.4	45.6	0.1	0.2
721-729	Investment intermediary industries	27,495	39,120	58,355	42.3	49.2	0.3	0.3
731-733	Insurance industries	178,655	143,065	138,200	-19.9	-3.4	0.9	0.8
741-749	Other financial intermediary industries	29,155	43,510	90,235	49.2	107.4	0.3	0.5
751	Operators of buildings and dwellings	80,580	111,815	118,150	38.8	5.7	0.7	0.7
759	Other real estate operators	2,085	2,905	2,720	39.3	-6.4	0.0	0.0
761	Insurance and real estate agencies	157,780	171,415	175,235	8.6	2.2	1.1	1.0
771	Employment agencies and personnel suppliers	49,485	74,900	94,545	51.4	26.2	0.5	0.6
772	Computer and related services	107,815	147,480	334,755	36.8	127.0	0.9	2.0
773	Accounting and bookkeeping services	106,185	114,990	141,695	8.3	23.2	0.7	0.8
774	Advertising services	47,425	80,045	108,020	68.8	34.9	0.5	0.6
775	Architectural, engineering and other scientific and technical services	172,425	185,625	248,910	7.7	34.1	1.2	1.5
776	Offices of lawyers and notaries	116,030	117,465	125,455	1.2	6.8	0.8	0.7
777	Management consulting services	46,040	92,890	91,275	101.8	-1.7	0.6	0.5
779	Other business services	183,135	192,160	263,140	4.9	36.9	1.2	1.6
811	Defence services	148,205	120,005	99,835	-19.0	-16.8	0.8	0.6
812-817	Other federal government service industries	303,165	274,580	285,760	-9.4	4.1	1.8	1.7
822-827	Provincial and territorial government service industries	319,660	260,150	256,375	-18.6	-1.5	1.7	1.5
832-837	Local government service industries	370,160	306,350	302,120	-17.2	-1.4	2.0	1.8
841	International and other extra-territorial agencies	2,565	2,210	3,405	-13.8	54.1	0.0	0.0
851	Elementary and secondary education	667,985	689,140	754,455	3.2	9.5	4.4	4.4
852	Post-secondary non-university education	105,765	133,095	144,755	25.8	8.8	0.9	0.9
853	University education	184,835	193,075	196,270	4.5	1.7	1.2	1.2
854	Library services	23,400	24,430	32,420	4.4	32.7	0.2	0.2
855	Museums and archives	13,755	16,590	18,945	20.6	14.2	0.1	0.1
859	Other educational services	14,965	29,375	30,310	96.3	3.2	0.2	0.2
861	Hospitals	591,520	540,345	540,050	-8.7	-0.1	3.5	3.2

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
862	Other institutional health and social services	203,260	248,530	284,295	22.3	14.4	1.6	1.7
863	Non-institutional health services	58,820	84,630	128,495	43.9	51.8	0.5	0.8
864	Non-institutional social services	201,760	323,050	416,035	60.1	28.8	2.1	2.5
865	Offices of physicians, surgeons and dentists, private practice	154,525	178,370	192,655	15.4	8.0	1.1	1.1
866	Offices of other health practitioners	40,715	54,145	66,400	33.0	22.6	0.3	0.4
867	Offices of social services practitioners	3,845	8,175	10,075	112.6	23.2	0.1	0.1
868	Medical and other health laboratories	28,780	25,195	30,540	-12.5	21.2	0.2	0.2
869	Health and social service associations and agencies	25,970	49,140	37,470	89.2	-23.7	0.3	0.2
911	Hotels, motels and tourist courts	186,290	195,700	149,770	5.1	-23.5	1.3	0.9
912	Lodging houses and residential clubs	8,355	5,410	2,140	-35.2	-60.4	0.0	0.0
913	Camping grounds and travel trailer parks	8,340	7,415	8,195	-11.1	10.5	0.0	0.0
914	Recreation and vacation camps	16,335	22,350	24,495	36.8	9.6	0.1	0.1
921	Food services	732,020	837,865	957,860	14.5	14.3	5.4	5.6
922	Taverns, bars and night clubs	47,690	56,185	66,530	17.8	18.4	0.4	0.4
961	Motion picture, audio and video production and distribution	25,620	39,925	53,410	55.8	33.8	0.3	0.3
962	Motion picture exhibition	10,015	11,250	14,630	12.3	30.0	0.1	0.1
963	Theatrical and other staged entertainment services	34,795	39,530	46,510	13.6	17.7	0.3	0.3
964	Commercial spectator sports	12,795	17,485	21,145	36.7	20.9	0.1	0.1
965	Sports and recreation clubs and services	73,250	97,685	90,975	33.4	-6.9	0.6	0.5
966	Gambling operations	12,155	28,245	48,250	132.4	70.8	0.2	0.3
969	Other amusement and recreational services	52,680	81,655	77,815	55.0	-4.7	0.5	0.5
971	Barber and beauty shops	102,855	107,760	120,840	4.8	12.1	0.7	0.7
972	Laundries and cleaners	47,235	48,400	45,880	2.5	-5.2	0.3	0.3
973	Funeral services	10,970	13,155	14,495	19.9	10.2	0.1	0.1
974	Private households	82,440	38,820	30,020	-52.9	-22.7	0.2	0.2
979	Other personal and household services	80,840	142,160	102,310	75.9	-28.0	0.9	0.6
981	Religious organizations	69,850	74,730	73,215	7.0	-2.0	0.5	0.4
982	Business associations	13,230	15,900	17,360	20.2	9.2	0.1	0.1
983	Professional membership associations	9,375	11,500	9,335	22.7	-18.8	0.1	0.1
984	Labour organizations	19,670	22,595	19,040	14.9	-15.7	0.1	0.1
985	Political organizations	1,465	1,980	1,345	35.2	-32.1	0.0	0.0
986	Civic and fraternal organizations	27,885	48,830	38,955	75.1	-20.2	0.3	0.2

SIC80	Weighted			% Change		% Distribution		
	1991	1996	2001	91-96	96-01	1996	2001	
991	Machinery and equipment rental and leasing services	43,400	48,195	48,595	11.0	0.8	0.3	0.3
992	Automobile and truck rental and leasing services	14,260	17,480	20,445	22.6	17.0	0.1	0.1
993	Photographers	14,155	14,395	14,150	1.7	-1.7	0.1	0.1
994	Other repair services	37,990	39,405	41,740	3.7	5.9	0.3	0.2
995	Services to buildings and dwellings	117,595	161,120	193,205	37.0	19.9	1.0	1.1
996	Travel services	37,050	46,565	53,370	25.7	14.6	0.3	0.3
999	Other services, n.e.c.	56,765	74,585	67,615	31.4	-9.3	0.5	0.4
TOTAL		14,721,135	15,547,165	16,961,070	5.6	9.1	100	100

Appendix C. 2001 Census Products and Services

The census is a reliable source for describing the characteristics of Canada's people and dwellings. The range of products and services derived from census information is designed to produce statistics that will be useful, understandable and accessible to all users. Sources, such as the *2001 Census Catalogue*, the Statistics Canada Web site (<http://www.statcan.ca>) and, specifically, the On-Line Catalogue, contain detailed information about the full range of 2001 Census products and services.

There are several new product and service features for the 2001 Census:

1. Media

- The Internet is the preferred medium for disseminating standard data products and reference products.
- More census data are available to the public free of charge via the Internet.

2. Content

- Data tables for the 2001 Census are released by topics, that is, groups of variables on related subjects.
- Wherever possible, the language and vocabulary used in 2001 Census products available on the Internet is simplified to make the information accessible to more people.
- Users are offered various methods of searching and navigating through census standard products (including reference products) on the Internet.

3. Geography

- Geographic units such as dissemination areas, urban areas, designated places and metropolitan influenced zones were added to the standard products line. Some new units, such as dissemination areas, replace others.

4. Variables

- Information on the following new subjects was collected in the 2001 Census: birthplace of parents, other languages spoken at home and language of work. The 2001 questionnaire also included the question on religion, which is asked in every decennial census. The family structure variable was broadened to include same-sex couples.