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## Age, Sex, Marital Status and Common-law Status

## 1991 Census Technical Reports



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## 1991 Census Technical Reports

## Age, Sex, Marital Status and Commonlaw Status

## Reference Products series

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## Preface

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

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

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

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

Information on data quality is also important to Statistics Canada. It is an integral part in the development and maintenance of pertinent and reliable statistical programs.
This publication is a major contribution to achieving these goals. It has been prepared by Daniel Larrivee, with the support of staff from three Divisions in Statistics Canada: Demography, Census Operations and Social Survey Methods.

Finally, I would like to express my appreciation to the millions of Canadians who completed their questionnaines on June4, 1991, as well as to those who assisted Statistics Canada in planning and conducting the census.

Ivan P. Fellegi<br>Chief Statistician of Canada

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## I. Introduction

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

Information is obtained through a series of questions established after detailed consultation and testing. It is collected by trained enumerators, checked for inconsistencies and errors and forwarded to Revenue Canada Taxation (RCT) regional centres for data entry. The final results are placed on a computer database at Statistics Canada. Data are analyzed, published and disseminated in various forms.
In a massive project such as the census, however, the results are never perfect. Although considerable effort has been made to maintain high standards of quality, errors inevitably occur at various stages of the collection and processing operations. Users must be aware of the nature and scope of any errors that the census data may contain, as well as the risks involved in basing conclusions or decisions on these data.
The 1991 Census Technical Reports have been designed to inform data users of the potential problems or intricacies of the data. The reports inform users of the conceptual framework and definitions used in the data collection, any unusual circumstances which may influence the data, likely principal sources of error and, where possible, the size of the error.

This product is a specialized analytical tool. It complements and co-ordinates other reference products and assists the more sophisticated user to understand variable details and methodology.

## II. Concepts and Definitions

The census concepts relating to age, sex, marital status and common-law status are defined in this section. The age variable (derived from a question on date of birth) and the sex variable pose few problems of interpretation. The marital status and common-law status variables, however, require more careful attention.
The above rnentioned variables were obtained for the entire population. However, an exception to this generalization was the common-law variable (which was not asked of persons living in coltective dwellings or persons living outside of Canada).

The census data can be distinguished according to four distinct "universes", including the population universe (which includes variables pertaining to individuals), the family universe, the household universe and the dwelling universe. The variables discussed in this technical report all fall within the population universe.

## 1. Date of birth

As defined in the Census Dictionary, date of birth refers to the day, month and year of birth, collected for the purpose of determining the person's age as of Census Day. People who were unable to give their exact date of birth were asked to give the best possible estimate.

The threshold values for acceptable responses were January 1, 1870, and June 3, 1991.
This question, which has been asked on all census forms since the first Canadian enumeration, has undergone little change. In 1966 and 1971, however, respondents were asked to indicate their age in completed years as of their last birthday preceding Census Day. In 1961, published data for single years of age were first smoothed within each fiveyear age group to counteract the "pull" toward rounded numbers, that is, the tendency of respondents to "round off" their age. In 1966 and 1971, this was not done, and the published tables represent the data as reported.

## 2. Age

Age refers to the respondent's age at his/her last birthday (as of the census reference date, June 4, 1991). This variable is derived from the response to the question pertaining to date of birth. Results are available by single year of age, and acceptable threshold values are from 0 to 121 years.
Once the edit and imputation operations have been completed on the date of birth variable, age is derived using the following algorithm:

| where ${ }^{\text {AGE }}$ | $\begin{array}{r} {[1991-(\text { DECADE } \times 10+\text { YEAR })-(\text { MONTH }-1)]} \\ 191-(196 \times 10)-(2-1) \end{array}$ |
| :---: | :---: |
| DECADE |  |
| YEAR | 0,1, .., 9 年 |
| MONTH | $=1$ (from January 1 to June 3) |
|  | 2 (from June 4 to December 31) |

Hence, the age of a person born on September 5, 1960, is calculated as follows:

| AGE | $=[1991-(196 \times 10+0)-(2-1)]$ |
| :--- | :--- |
| AGE | $=[1991-1960-1]$ |
| AGE | $=30$ |

[^1]
## 3. Sex

Sex refers to the gender of the respondent. Respondents were asked to specify their gender in order to facilitate processing of responses and avoid any confusion in interpreting first names (for example, the sex of a person is not obvious from first names such as Jean, Leslie or Francis).

## 4. Marital status

Marital status refers to a person's conjugal status. This variable underwent an important change in the 1991 Census. Contrary to previous censuses, respondents were asked to give their legal marital status. The options listed were: legally married (and not separated), legally married and separated, divorced, widowed, never married (single).

The categories were defined as follows:
Legally married (and not separated)
Persons whose spouse is still living, uniess the couple is separated or a divorce has been obtained.

## Legally married and separated

Persons who have been deserted or who have left because they no longer want to live together, but have not obtained a divorce.

## Divorced

Persons who have obtained a legal divorce and who have not remarried.

## Widowed

Persons who have lost their spouse through death and who have not remarried.

## Never married (single)

Persons who have never married (including all persons less than 15 years of age) or persons whose marriage has been annulled and who have not remarried.

In this way, persons in common-law unions could be classified according to their legal marital status. Prior to 1991, however, persons in common-law unions were included in the "now married (excluding separated)" category, and so demographic data on marital status are not comparable with data from previous censuses. In order to maintain the historical comparability of the 1991 data on marital status, an additional set of data is therefore provided, derived from the question on legal marital status and the question on whether the perison was living with a common-law parmer. A more detailed description of the problems in comparing data on marital status is provided in the section entitled "Historical Comparability".

## 5. Common-law status

Common-law status refers to the status of persons who live together as husband and wife, but who are not legally married to each other.
Prior to the 1981 Census, no data were availabie on the number of persons living in common-law unions. With the 1981 and 1986 Censuses, data were derived from a question concerning the relationships between the reference person and other members of the household. In 1991, however, a specific question regarding common-law status was directly introduced, such that data could be derived from this question in conjunction with the information on the relationships among household members. Furthermore, the addition of this question pertaining to commonlaw status and a modification of the question pertaining to marital status, makes it possible to obtain data on the legal marital status of persons living with common-law partners.

## III. Data Collection and Coverage

The 1991 Census of Canada, held on June 4, served to coliect information on more than 10 million diwellings. Persons were enumerated at their usual place of residence, regardless of where they happened to be on Census Day. This method of enumeration is known as the "de jure" approach to census-taking. Also enumerated were any Canadians staying in a dwelling on Census Day who had no usual place of residence elsewhere in Canada.

## 1. Data collection methods

Two collection methods were used for the 1991 Census: self-enumeration and canvasser enumeration. In selfenumeration areas, a questionnaire was dropped off at each household before Census Day. A member of the household was to complete the questionnaire on Census Day. Questionnaires were mailed back in pre-addressed envelopes.

Self-enumeration was first introduced in the 1971 Census. This method is relatively inexpensive and gives respondents time to consult birth certiflcates, income tax retums and other information sources. Moreover, this method eliminates the risk of inaccurate interpretations by census representatives.

In the 1991 Census, less than $2 \%$ of households were enumerated by canvassers; census representatives completed a long form questionnaire for these households by interview. This method was used to enumerate each bousehold in remote or northem areas and on Indian reserves where irregular mail service makes mail-back impractical. In addition, some remote northern areas were enumerated for the Census during March 1991. This early enumeration was established in areas where communities "break up" in the spring in order to migrate to various hunting and fishing areas.

For the very first time, an attempt to enumerate homeless people through soup kitchens was done on an experimental basis for the 1991 Census. A sample of soup kitchens across Canada were visited. Form 3B was used by Census representatives, to interview each person as they arrived at the soup kitchen for a meal. It is anticipated that coverage improvement may be obtained in the larger cities as a result of this special enumeration procedure.
A public communications program and multilingual telephone assistance service supported data collection operations.
The multilingual Telephone Assistance Service (TAS) was available to households that had problems understanding census questions or that did not receive a questionnaire. The TAS numbers were printed on the back of each questionnadre and calls were free of charge. During its operation, over 280,000 calls were handled by TAS. The service was also available for users of telecommunication devices for the hearing impaired.

## 2. Sampling

Some data were collected from a $20 \%$ sample of the population (one out of every five households), while other data were collected from the entire population. Data relating to age, sex, marital status and common-law status were derived from questions asked of the entire population. Although the type of questionnaire varied by type of dwelling (private versus collective), such differences had no effect on results since the content relating to age, sex and marital status was in the same format on all questionnaires.

[^2]
## 3. Edit and follow-up

For age, sex marital status and common-law status, the first quality control operation was to verify that responses were given for every enumerated person on each of the four variables. In the case of non-response, the census representative was required to follow up, that is, contact the respondent in question and attempt to obtain the missing information. With regard to the date of birth question, where the day was not specified, but the month and year were indicated, the census representative was required to do a follow-up only if the month of birth was given as "Iune". In addition, if no response was given for the question on common-lawstatus, but the response to Question 5 was "Legally married (and not separated)", then this latter response was accepted. At this stage of enumeration, local census representatives were not required to assess the relevance or consistency of responses on the questionnaires.

## 4. Coverage

Respondents were required to meet the following eligiblity criteria:

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

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

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

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

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

In an effort to improve coverage in the 1991 Census, Statistics Canada introduced lists of addresses called "address registers" (ARs).
Census representatives were required to compare addresses recorded on the Visitation Recond during questionnaire drop-off against the addness register (AR) list. Where an address from the AR list could not be matched with a corresponding address on the Visitation Record, the census representative was required to revisit the area in an attempt to locate the dwelling at the missed address. Conversely, if the AR was missing an address listed by the census representative, the address was added to the AR after the census.

The address register was used for the first time in the 1991 Census in an effort to improve coverage. It was estimated that the use of address registers in the census data collection process would improve population coverage by 70,000 people, including persons who might otherwise be missed.

## 5. Questionnaire and instructions

Questions relating to date of birth, sex, marital status and common-law status, as they appear on the 1991 Census form, are reproduced below.

Ouestion 3 on the census form asked respondents to print the day, month and year of their birth in the appropriate spaces. Where the exact date was not known, they were asked to enter the best estimate. It is from these data that the age of respondents in completed years was calculated. This question was the same as in the last census.

Privt diy, mand and year.
Examper:
thit porson was bow on the
10아 al Fobricity 1S45, enter


If exact date is not knowt, wider beit estignile.


As in the 1986 Census, Ouestion 4 pertained to the sex of respondents. Since the question was simple, no specific instructions were given.


Question 5, pertaining to marital staus, was substantially different from the last census. In 1986, persons in common-law unions were asked to indicate their marital status as single, divorced, separated or widowed. When the data were edited, answers were recoded and these persons were included in the "Now married (excluding separated)" category. In 1991, the question pertained tolegal marital status. The possible responses were similar to those in the 1986 Census, but instructions to respondents in common-law unions were different since a specific question relating to common-law status had been added. Instructions in 1991 stated that persons in common-law unions should choose the category of Question 5 which best described their legal marital status [that is, legally married and separated, divorced, widowed or never married (single)] and mark the appropriate circle. They were also asked to be sure to indicate that they were living with a common-law partner in Question 6.

## 5. EESAL Mantial sTATUS

Mark ane cicte only.


[^3]Question 6, pertaining to common-taw umions, was added to the 1991 questionnaire in order to facilitate processing. improve data quality and gain a better understanding of this important change in the ifestyles of Canadians.

| 5. is this person curreatily living whth a commontaw pantert |  |
| :---: | :---: |
|  |  |
|  |  |

$\square$

According to the definition in the Census Guide, a common-law union exists where two people live together as husband and wife, but are not legally married. Respondents were asked to make sure that they had indicated their legal marital status in Question 5.

## IV. Data Assimilation

As the questionnaires were received, the process of assimilating the data involved several stages in order to convert written responses into machine-readable form. This process involved four stages:

- regional office processing;
- direct data entry;
- automated coding;
- head office processing.

A brief description of each stage is provided below.

## 1. Regional office processing (ROP)

Regional office processing consisted of the following elements:
(a) Receipt and preparation of documents

When completed questionnaires reached the regional processing centres, they were logged, counted and prepared for key entry. Preparation involved checking questionnaires against Visitation Records - making sure, for example, that the number of household members on the two documents matched. Legibility checks ensured that the data were ready for computer entry. Finally, all responses concerning relationships between household members (Question 2) were converted to numerical codes.
(b) Reverse record check

A sample of persons was taken from the 1986 Census files and other external sources; 1991 documents were then searched for these same persons. Where a person was found, 1991 charactenistics were noted and sent to head office. Where persons were not found, further tracing determined whether they were enumerated elsewhere in Canada or missed altogether. The results of this reverse record check are presented in Section VI.
c) Coding of economic variables

Supervisors and coding consultants resolved any discrepancies in coding before the questionnaires for an enumeration area proceeded to the next stage. Other sources (city directories, subject-matter officers, and so on) were occasionally consulted.
d) Processing

Questionnaires were transferred to work units in charge of direct data entry at Revenue Canada. Taxation regional processing offices, before being sent to Staistics Canada in Ottawa.

## 2. Direct data entry (DDE)

Direct entry (key entry) of data from the census of population questionnaires was performed by 1,500 operators, sworn to secrecy under the Statistics Act, working for Revenue Canada in seven centres across the country. Data were then transmitted from the regional centres to Ottawa to be stored on tapes.

Regional Taxation Data Centres of Revenue Canada were used to provide office space for temporary staff hired to process and capture census data. Revenue Canada, Tazation data capture operators were also used for subsequent data entry, to be eventually processed and compiled at Statistics Canada.

[^4]Production took place during the period from August to December 1991.
The activities that were involved in this stage include:

- receipt and registration of enumeration area boxes from regional processing;
- key entry of census questionnaire data by operators;
- sample verification of the captured data by a different operator, including the correction of lagged errors by the system at operator entry;
- return of questionnaires to enumeration area boxes (in their original order);
- shipping to Ottawa (shipment of data cartridges between Revenue Canada, Taxation head office in Ottawa and Statistics Canada head office, on a daily basis).


## 3. Automated coding

The automated coding operation converted written responses to questions on mother tongue, home language, knowledge of other languages, registered indian status, place of birth, ethnic origin, major field of study, religion, and plate of residence 1 and 5 years ago, to numerical codes.
For the first time, this coding operation was done using batch processing to automatically match in alphabetical order the captured written responses received from head office processing against an automated reference filel classification structure. This structure contained a series of words or phrases and corresponding numerical codes for each of the above variables.

All responses which could not be coded by the system were coded manually by processing staff and coding consultants using a computer-assisted process. Once all responses were coded, an analysis was conducted for each variable to ensure compliance with rules goveming data quality, and then records were forwarded to edit and imputation.

## 4. Head office processing (HOP)

Head office processing involved a combination of automated and manual operations divided into four majorgroups.

- Visitation Records and questionnaires for each enumeration area were received, registered and stored at head office. Tapes containing respondent data were copied and loaded onto the HOP database.
- Automated structural edits were carried out at the enumeration area, household and person levels and any inconsistencies such as person count conflicts or household number conflicts were resolved manually.
- Special enumeration questionnaires from Canadians living outside Canada, temporary residents and persons aboard merchant, naval and coast-guard vessels were sent to head office and the data adjusted to include them. In addition, coverage check results of unoccupied dwellings and undercoverage and overcoverage were processed, and adjustments made to the data based on the results of the vacancy
check.
- HOP staff was also responsible for producing the preliminary and final population and dwelling counts and for microfilming census questionnaires for archival purposes.


## V. Edit and Imputation

Editing the collected data is one of the most important steps in the development and ultimate dissemination of the 1991 Census. This stage of census operations involves judgment as to the consistency of responses, and if necessary, the rejection of responses that are incompatible with responses given for other variables. This is to be followed by an assessment of the number of missing or invalid responses. Errors may be the result of respondents answering questions incorrectly or incompletely, or they may have been generated during coding or data capture activities. After errors are detected, values for missing or incomplete entries are imputed.
Imputation, which involves the automated assignment of responses to cases which are either invalid or missing, is of fundamental importance in following the edit procedures. The first concem in imputation is to retain as many of the original responses as possible. The imputation process is based on the principle that as much of the original data as possible contained in files rejected during the edit be conserved. Ultimately, the goal is to minimize the necessary changes that follow the data collection and edit procedures.
Imputation may be done using either the "deterministic" or "hot deck" method - both were used in the 1991 Census. "Deterministic" imputation involves correcting errors by infaring the appropriate value on the basis of other answers on the questionnaire. On the other hand, the "hot deck" approach involves selecting a record that has a number of characteristics in common with the record in error, and imputing the missing information from this "donor" record. The age, sex and marital status variables are imputed using the latter approach. Imputation is based upon a consistent record, taking into account certain geographic and auxiltary constraints.

## 1. Operations pertaining to family relationships

Before proceeding to a discussion of the edit and imputation process for age, sex and marital status variables, it is useful to briefly consider prior operations associated with the "DERIVE" program. More specifically, the DERIVE program has been developed to ensure consistency in census information collected on "family relationships.
"DERIVE" program operations are designed to properly designate what has come to be referred to as "the reference person" (i.e. the person who completes the census questionnaire for all members of the household) and correctly identify family members and their relationship to this reference person. Consequently, the manner in which the consistency in such relationships can be established involved explicitly the variables which are the focus of the report. If a response conflicts with other responses on the form with regard to age, sex, marital status and commonlaw status, the response is necessarily modified to ensure consistency in family relationships. In the present context, this potentially holds repercussions for the marital status and common-law status variables.
The impact of changes made through these operations on the "marital status" and "common-law" variables is shown in Table 5.1.

It seems clear, from this table, that these operations have a negligible effect on the marital status data. In fact, only $0.3 \%$ of marital status data is affected (Table 5.1). It should also be mentioned that these changes mostly affect data pertaining to single and married persons.

Table 5.1 Percentage of Data Modified by the "DERIVE" Operation, Canada and Regions, 1991

| Variable | Cunda | Esat | Ouebec | Ontario | Went | Ontside Canada |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | parcenting |  |  |  |  |  |
| Marital status | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.6 |
| Commonthw status | 8.0 | 6.1 | 9.0 | 8.3 | 7.3 | 7.7 |

In 1986, the "DERIVE" operation had a large impact on marital status data since it redesignated persons living in common-law unions as "Now married (excluding separated)". In 1991, the "DERVE" operation was further modified, such that persons living common-law were no longer redesignated in this manner. Since persons living common-law were asked in the 1991 census to indicate their legal marital status, the "DERIVE" function merely ensures consistency with reported relationship and marital status. For example, where one partner could not be identified from among household members, the "DERIVE" operation assured that the response concerning common-law status did not contradict this fact. Modifications of this nature to the data on common-law unions was considerable, in the order of $8 \%$. This was even higher for the province of Quebec, where $9.0 \%$ of cases were affected.

## 2. Editing and imputation software

The CANEDIT automated system was used to edit and impute data for age, sex and marital status. The system was used to correct data for age, sex, marital status and relationship to the reference person. Edits were specified in the form of several conflict rules. A conflict existed, for example, if a respondent's marital status was "legally married (and not separated)", but that person was under 15 years of age. "Hot deck" imputation was used in replacing values that surfaced through these conflicts. This method was relied upon, as it attempts to maintain the correlation of characteristics with mimimal change to the data. As an example, if a record indicated that a person was a married woman, but no age was provided, CANEDIT would search for a response that cornects this error without contradicting other information provided. The system would not impute an age of less than 15 since this is a logical impossibility for a married woman. It would search clean records to find a married woman in the same geographical area whose other relevant characteristics were the same, and match her age with the missing value.

## 3. Edit and imputation of responses

The edit rules for the 1991 Census were very similar to those for the previous census. In fact, 19 edit rules were established, some of which applied only to single responses and respondents, while others compared the responses of two different members of the household. Although the complete list of edit rules for the age, sex and manital status variables is included in the Appendix, some examples are presented below to illustrate the general principles and selected characteristics involved.

The most basic edit and imputation nule involves the automatic rejection of any questionnaire in which a response was missing. In Example 1, the questionnaire would be rejected in edit since the decade and year of birth for the son were not given. In the imputation of this missing value, an automated procedure searches through records already processed for a household with similar characteristics, which then serves as a reference record. Correspondingly, the missing data (i.e. the decade and year of birth of Person 3 in this case) are extracted from this file.

| Erample 1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Pergon | Relationship to Person 1 | Year of birth | Sex | Marital status |
| 1 | - | 1965 | M | Legally married (and not separated) |
| 2 | Spouse | 1967 | F | Legally married (and not separated) |
| 3 | Son | blank | M | Never molried (single) |
| 4 | Daughter | 1990 | F. | Nover married (single) |

In general, this matching of similar characteristics involves two types of specifications: stratification rules and auxjliary constraints. The former ensures that the processed reconds are from similar households, for example, live in the same region (nual or urban), have the same number of members, etc. The auxiliary constraints ensure, in this instance, the matching of data from the reference file relative to sex, relationship to Person 1, place of birth or marital status, depending on the variabie to be imputed.

In Example 1, a household is selected with four persons, the third reported being a son. In order to serve as a reference record, the record for this household would have to contain the same information as the household specified in Example 1, that is, the same relationship to Person 1, sex and marital status. The decade and year of birth of the son in the reference file are then assigned to the son in Example 1.

Only those reconds that have made it through the edit process may serve in the reference files. Data imputed must consequently be erroriess (in other words, only valid and consistent responses are acceptable).
In Example 2, either the date of birth of Person 3 or his/her relationship to Person 1 has been incorrectly coded or captured. Census edjit cules provide that the decade of birth reported for a son or daughter be at least fifteen years later than that of at least one parent. The questionnaire in Example 2 would therefore be rejected in the edit process.

In order to make the data relating to the household in Example 2 consistent, it is necessary to modify, at the edit and imputation stage, either the son's decade of birth, which conflicts with that reported by the first two persons, or the relationship of Person 3 to Person 1. Either option is acceptable and could be chosen as each requires only one modification. Once a choice was made, the imputation process would be simitar to that described for Example 1.

The overall impact of using these procedures for missing, invalid or conflicting data is relatively small when considering data on age, sex and marital status. Close to $98 \%$ of the data were in

| Example 2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Persus | Relationshis <br> to Person $\$$ | Year of birth | Sex | Marital status |
| t | - | 195 | M | Legally married (and not separated) |
| 2 | Spouse | 1967 | F | Legally married (and not separated) |
| 3 | Son | 1970 | M | Never married (singte) |
| 4 | Daughter | 1990 | F | Never married (single) | no way modified. Cases of conflict requiring a correction to the sex, decade, year and month of birth or marital status accounted for a very small proportion of the rejected reconds found in the edit In fact, over $90 \%$ of the values imputed involved missing responses. It should be mentioned, however, that the earlier "DERIVE" operation helped to reduce inconsistency for the marital status variable and to eliminate it for the common-law variable.

Table 5.2 Percentage of Data Modified Due to "Blank", "Invalid" or "Conflict" Responses, Canada and Regions, 1991

| Variable | Canseda | East | Quebec | Ontario | West | Cutisde Canad |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | percentage |  |  |  |  |  |
| Decade of birth | 1.7 | 1.1 | 1.9 | 2.0 | 1.4 | 2.8 |
| Year of birth | 1.6 | 1.0 | 1.7 | 1.9 | 1.3 | 2.6 |
| Month of birth | 1.7 | 1.0 | 1.8 | 2.0 | 1.4 | 2.6 |
| Sex | 1.9 | 1.1 | 1.9 | 2.4 | 1.6 | 2.4 |
| Marital status | 2.3 | 1.4 | 2.4 | 2.6 | 1.9 | 4.2 |

In a morespecific manner, the percentage of responses modified due to blank, invalid or inconsistent responses, with decade, year, and month of birth, was in the order of $1.7 \%$ for the country as a whole, although this percentage was as high as $2.8 \%$ for Canadians residing outside of the country. This was also higher in Ontario and Quebec (in the order of $2 \%$ for certain variables) while the lowest percentage was in the Atlantic provinces.

The percentage of responses that were changed for the sex variable was slightly higher ( $1.9 \%$ ), as associated with a higher number of missing values. The response pattern was also similar at the regional level, with percentages higher for Ontario and residents outside Canada (reaching 2.4\%).

[^5]With respect to the question pertaining to marital status, $2.3 \%$ of responses were missing, invalid or in conflict with other responses provided. Problematic responses from Canadjans residing outside Canada were relatively high at $\mathbf{4 . 2 \%}$, compared to $\mathbf{2 . 3 \%}$ for Canada as a whole.

In summary, only a small proportion of responses were missing, invalid or in conflict, with missing responses accounting for most of the rejected records found in the edit. Since the number of cases requiring imputation was relatively small, the imputation process had litule impact on the distribution of Canada's population by age, sex and marital status.

## VI. Data Evaluation

Once the data collection, capture, editand imputation operations were completed, the next stage involved evaluating the quality of the data gathered. Two approaches were used to carry out this evaluation. The first consisted of comparing the data on age, sex and marital status and on persons in common-law unions against data from outside sources. At this stage, the evaluation was limited to Canada, the provinces and territories. The second approach involved evaluating the comprehensiveness of the data by means of coverage measurement studies ${ }^{(1)}$.

## 1. Data evaluation process

Throughout the various stages of the census, measures were taken to ensure that results were of superior quality. Rigorous standards of quality control were established for data collection and processing, while a public relations program attempted to minimize non-response. These measures reduced, but could not ellminate, error. Consequently, a data quality measurement program was established to provide users with information on the quality of census data. Two studies were conducted within the framework of this program: one to measure undercoverage, and the other to measure overcoverage. Results from those studies are combined to provide an estimate of net undercoverage. Results with respect to the variables age, sex and marital status are briefly described in this section.

First, however, data on age, sex, marital status, and persons in common-law unions were evaluated using different sources. For comparative purposes, various indicators were calculated based on data from the following sources: vital statistics, demographic estimates as prepared by the Demography Division, selected surveys and previous censuses.

### 1.1 Evaluation of age data

Age data are derived from the question on date of birth. Consequently, the evaluation begins with data on the month and year of birth ${ }^{(2)}$.
Vital statistics on births during 1979-1988 period were used to calculate the mean distribution of births by month for Canadi as a whole, the provinces and territories. A distribution for January 1 to June 3 and June 4 to December 31 was also derived from this data. Accordingly, the percentage of births in each period was $42.5 \%$ and $57.5 \%$ respectively.
These same distributions were also computed on the basis of census data for Canada, the provinces and territories. They were then compared with the distribution Gigures based on vital statistics.
Table 6.1 shows only very small discrepancies in birth period distribution for Canada as a whole. The discrepancy of approximately one thitrd of a percentage for each birth period clearly falls within the expected range. Only the distribution for Newfoundland and the Territories are particularly noteworthy in falling outside the expected range (Table 6.2). Inaccuracy in the vital statisties might be responsible for the discrepancies observed in Newfoundland, while small numbers might merely be involved in the Territories.

[^6]Table 6.1 Population Distribution by Month of Birth, Mean for the 1979-1988 Period and Expected Range for Census, Canada, 1991

| Mionth and period | $\begin{array}{r} \text { Mann } \\ \text { 1979.1988(1) } \end{array}$ | $\begin{aligned} & \text { Expected range\{ } \\ & \text { for } 1991 \text { Census } \end{aligned}$ | Distribution fior 1991 Census |
| :---: | :---: | :---: | :---: |
|  | percentage |  |  |
| January | 7.89 | 7.64-8.14 | B. 14 |
| February | 7.59 | 7.34-7.84 | 7.67 |
| March | 8.70 | 8.45-8.95 | 8.56 |
| April | 8.59 | $8.34-8.84$ | 8.56 |
| May | 8.86 | $8.61-9.11$ | 8. 86 |
| June 1-3 | 0.85 | 0.60-1.10 | 0.84 |
| From Jamuary 1 to June 3 | 42.49 | 42.07-42.91 | 42.79 |
| Jure 4-30 | 2.65 | 7.40-7.90 | 7.59 |
| July | 8.71 | 8.46-8.96 | 8.56 |
| August | 8.51 | $8.26-8.76$ | 8.41 |
| September | 8.58 | 8.33-8.83 | 8.52 |
| October | 8.29 | 8.04-8.54 | 8.31 |
| November | 7.81 | 7.56-8.06 | 7.81 |
| December | 7.97 | 7.72-8.22 | 8.04 |
| From June 4 to Dectumber 31 | 57.51 | 56.93-58.09 | 57.21 |
| Total | 100.0 |  | 100.0 |

(1) Mean births by month, from vital statistics.
(2) Range for individual months is $\mathbf{4}-\mathbf{0 . 2 5 \%}$ of mean.

Range for birth period its $+1+1 \%$ of mean

Table 6.2 Population Distribution by Month of Birth, Canada, Provinces and Territories, 1991

| Prowince! teritiory | Janury 1 to Junal 2 |  | Jupe 3 to December 31 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Expected tramge for 1991 Cmpsus(1) | Distrlbution for 199] Cmpans | Expected ram务 for $19 \% 1$ Cansus(i) | Distribution for 1991 Cwnsus |
|  |  | perce | 过 |  |
| Canada | 42.1-42.9 | 42.8 | 56.9-58.1 | 57.2 |
| Newfoundland | 44.0-44.8 | 40.9 | 55.0 - 56.2 | 59.1 |
| Prince Edward Island | 42.0-42.9 | 42.5 | 57.0-58.1 | \$7.5 |
| Nown Scotis | 42.2-43.1 | 42.5 | 56.6-58.0 | 57.5 |
| New Rrunswick | 41.9-42.7 | 42.9 | 57.1-58.3 | 57.1 |
| Quebec | 42.4-43.3 | 43.1 | 56.6-57.7 | 56.9 |
| Ontaris | 41.6-42.4 | - 42.7 | 57.4-58.6 | 57.3 |
| Manitola | 42.3-43.1 | 42.7 | 56.8-57.9 | 57.3 |
| Saskatchewan | 42.6-43.5 | 42.8 | 56.4-57.5 | 57.2 |
| Alberta | 42.1-42.9 | 42.9 | 56.9-56.1 | \$7.2 |
| British Columbia | 42.0-42.8 | 42.7 | 57.0-58.2 | 57.3 |
| Yukon Territory | 42.8-43.8 | 42.0 | 56.1-57.2 | 58.1 |
| Northwese Territories | 42.7-43.5 | 43.9 | 56.3-57.5 | 36.1 |

[^7]The quality of birth year data was also evaluated. In order to do so, the birth year distribution from the 1991 Census was analyzed.
The 1991 population distribution by year of birth is presented in Table 6.3. Overall, this distribution corresponds closely to the pattern of births observed in Canada since the turn of the century. For example, the swelling of birth cohorts following World War $\Pi$ corresponds closely to the increase in fertility and the recovery of births during the "baby boom" period. This was also a period of heavy immigration, which also contributed to an increase in the number of persons reporting a birth during these years.
In addition, the decline in fertility from the middle of the 1960 s onward led to a decline in the size of the birth cohorts bom between 1965 and 1975. This decline in the size of birth cohorts was sharper in Quebec, while Western Canada experienced a less significant decrease. For this latter region, interprovincial migration has always had an important effect upon its age distribution which at least partially explains why this deeline was not as marked in other parts of the country.

Table 6.3 Population Distribution by Year of Birth(1), Canada and Regions, 1900 to 1991

| Birth year | Canada |  | East |  | Outber |  | Ontario |  | West |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Index | Namber | Index | Number | Index | Number | Index | Number | Index |
| 1900 | 9,960 | - | 1,895 | * | 4,160 | - | 7.575 | - | 6.330 | * |
| 1901 | 23,369 | - | 2,100 | - | 5,055 | - | 8,920 | - | 7,290 | - |
| 1902 | 29.110 | 983.0 | 2,505 | 955.3 | 6,465 | \$87.0 | 11,40 | 992.2 | 9,040 | 976.8 |
| 1903 | 34,760 | 988.9 | 3,050 | 993.2 | 7.745 | 980.4 | 13,115 | 991.2 | 10.850 | 991.4 |
| 1904 | 40,870 | 990.9 | 3,560 | 995.1 | 9,325 | 990.5 | 15,225 | 985.7 | 12,760 | 996.3 |
| 1905 | 47,640 | 997.5 | 4,145 | 996.0 | 10.910 | 988.0 | 17,7\% | 1,004.0 | 14,795 | 997.3 |
| 1906 | 53,850 | 978.0 | 4,620 | 959.7 | 12,620 | 986.1 | 20,010 | 979.2 | 16,60,0 | 975.5 |
| 1907 | 61,680 | 986.8 | 5,435. | 984.1 | 14,610 | 996.4 | 22,46S | 972.2 | 19,165 | 997.9 |
| 1908 | 71,285 | 1,1004.2 | 6.305 | 994.0 | 16,525 | 985.7 | 26,685 | 1,019.1 | 21,765 | 1,003.6 |
| 1909 | 78,045 | 981.0 | 7.110 | 991.2 | 18,653 | 988.5 | 28,570 | 977.2 | 23,705 | 977.5 |
| 1910 | 90,060 | 1,0]1.2 | 8.245 | 1,014.0 | 21,425 | 1,014.1 | 33,195 | 1,014.6 | 27.200 | 1,004.2 |
| 1911 | 96,705 | 983.2 | 8,780 | 972.7 | 23,230 | 992.0 | 35,270 | 981.8 | 29,420 | 981.2 |
| 1912 | 109.200 | 1,001.0 | 10.210 | 1.021 .5 | 25.795 | 999.0 | 39,86\$ | 1,000.7 | 33,335 | 996.9 |
| 1913 | 117.780 | 998.4 | 10.790 | 999.3 | 27,995 | J,000.8 | 42,725 | 993.6 | 36,270 | 1,002.0 |
| 1914 | 131.090 | 1,042.4 | 11.945 | 1,038.5 | 30,660 | 1,021.9 | 48,115 | 1.043 .7 | 40,970 | 1,058.1) |
| 1915 | 134,470 | 1,011.5 | 12,260 | 1,015.2 | 32.195 | 1,006.9 | 49,015 | 1.015 .7 | 41,005 | 1,009.2 |
| 1916 | 138,520 | 990.0 | 12,315 | 965.2 | 33,365 | 980.0 | 50,790 | 1,003.3 | 42,045 | 989.5 |
| 1915 | 142,215 | 974.9 | 13.060 | 979.6 | 35,655 | 997.6 | 50,650 | 957.5 | 42,845 | 975.9 |
| 1918 | 152,715 | 970.4 | 14,215 | 1,004.3 | 38,360 | 1,000,4 | 54,545 | 945.1 | 45,545 | 966.8 |
| 1919 | 161,450. | 949.5 | 14,820 | 982.8 | 39,130 | 939.7 | 59,470 | 946.3 | 48,030 | 951.7 |
| 1920 | 191,970 | 1,053.6 | 16,350 | 1,030.5 | 45,225 | 1,014.1 | 73,095 | 1.072.4 | 57,295 | 1,009.5 |
| 1921 | 201,805 | 1,044.7 | 16,950 | 1,039.2 | 49,830 | 1,053.9 | 76,460 | 1,043.2 | 58,569 | 1,040.6 |
| 1922 | 203,050 | 994.7 | 17.005 | 1,016.5 | 50.440 | 998.4 | 71,225 | 989.5 | 58,380 | 992.2 |
| 1923 | 207,560 | 988.1 | 16.425 | 968.1 | 51,780 | 979.3 | 80,240 | 997.3 | 59,115 | 989.2 |
| 1924 | 216,280 | 1,007,3 | 16,910 | 985.5 | 5\$,335 | 1,015.1 | 83,185 | 1,008.0 | 60,850 | 1,005.5 |
| 1925 | 221,600 | 1,0t0.1 | 17.545 | 1.015.0 | 57,000 | 1,010.2 | 85.175 | 1,010.0 | 61,880 | 1,008.8 |
| 1926 | 225.085 | 1,004.3 | 17,903 | 1,020.1 | 58.015 | 994.8 | 86,810 | 1.011 .7 | 62,365 | 998.6 |
| 1927 | 226,380 | 995.9 | 17,650) | 994.3 | 59.975 | \$,007.8 | 86,269 | 994.2 | 62,485 | 987.6 |

[^8]Age, Sex, Marital Status and Compmon-law Status

Table 6.3 Population Distribution by Year of Birth(1), Canada and Regions, 1900 to 1991

| Brath year | Canada |  | Eant |  | Quebec |  | Onterio |  | Weat ${ }^{\prime}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Index | Number | Index | Number | Index | Numberer | Index | Number | Ind*x |
| 4928 | 231,245 | 996.5 | 17.725 | 985.4 | 61,253 | 1,001.9 | 87,600 | 990.5 | 64,670 | 1,002.9 |
| 1929 | 232,205 | 984.7 | 17.950 | 983.0 | 61,310 | 977.9 | 87,990 | 984.0 | 64,950 | 992.6 |
| 1930 | 249,325 | 1,023.7 | 18.710 | 1,004.7 | 65,145 | 1,017.8 | 93,530 | 1,032.5 | 67,940 | 1.022 .7 |
| 1931 | 243,953 | 1,013.2 | 19.265 | t,023.4 | 65,815 | 1,023.3 | 91,745 | 1,008.0 | 67,130 | $1,007.7$ |
| 1932 | 245,505 | 1,013,2 | 19,470 | 1,020.8 | 66,510 | 1,025.8 | 92,055 | 1,006.6 | 67,470 | 1.007 .7 |
| 1933 | 236,265 | 978.3 | 18.725 | 974.1 | 62,780 | 970.3 | B9,775 | \$94.1 | 65,590 | 979.6 |
| 1934 | 239,880 | 987.7 | 19.185 | 989.9 | 63,925 | 990.6 | 90.145 | 982.5 | 66,625 | 991.2 |
| 1935 | 244,345 | 1,005.0 | 19.465 | 999.8 | 64.495 | 1,004.4 | \$2,420 | 1,005.0 | 67,960 | 1,007.1 |
| 1936 | 247,780 | 999.9 | 20,065 | 1,006.5 | 64,930 | 992.6 | 94,335 | 1,006.3 | 68,450 | 99.2 |
| 1937 | 246,765 | 975.8 | 19.895 | 970.8 | 64,940 | 970.5 | 93,140 | 974.6 | 68,790 | \$84.1 |
| 1938 | 260,240 | 1,000.9 | 21,070 | 1,000.8 | 68,780 | 994.3 | 98,675 | 1,008.0 | 71,710 | 997.7 |
| 1939 | 265,260 | 989.5 | 21.965 | 1,012.0 | 71,420 | 991.3 | 99,255 | \$89.3 | 72,620 | 981.1 |
| 1940 | 279,960 | 997.1 | 22,270 | 977.0 | 75,800 | 997.1 | 104,06s | 5\%4.6 | 77,825 | 1,006.6 |
| 1941 | 288,195 | 982.7 | 23,325 | 979.1 | 79,305 | 993.5 | 106,420 | 9783 | 79,145 | 979.0 |
| 2942 | 310,160 | 1.013.6 | 25,340 | 1,023.2 | 84,800 | 1,01t.3. | 114,745 | \$,015.4 | 85,280 | 1,010.7 |
| 1943 | 322.810 | $1,012.1$ | 26,215 | 1,005. 7 | 87,815 | 995.2 | 119,420 | 1,020.7 | 89,353 | 1,019.6 |
| 1944 | 328,840 | 970.1 | 26,675 | 955.9 | 91,540 | 986.4 | 121,345 | 963.7 | 90,353 | 966.6 |
| 1945 | 344,710 | 955.8 | 23,780 | 960.8 | 97,725 | 1,007.0 | 124,070 | 930.3 | 94,130 | 938.8 |
| 1946 | 380,405 | 1,028.0 | 32,520 | 1,027.4 | 102,100 | 1,012.1 | 145,845 | 1,044.1 | 107,935 | 1,022.1 |
| 1947 | 418.435 | 1,060.6 | 35,580 | 1,067.0) | 106,045 | 1,019.0 | 157,170 | 1,077.9 | 119,645 | 1,074.8 |
| 1948 | 408,700 | 998.1 | 34,710 | 1,000.9 | 106,980 | 1,004.0 | 150,995 | 998.9 | 116,015 | 994.7 |
| 1949 | 412,450 | 990.6 | 35.130 | 997.3 | 107,505 | 982.7 | 150.965 | 985.1 | 118,850 | 993.7 |
| 1950 | 419.440 | 997.7 | 35,450 | 998.2 | 114,130 | 1,003.1 | 153,139 | 995.9 | 120,725 | 995.1 |
| 1981 | 422,853 | 987.3 | 35.255 | 979.4 | 110,840 | 993.5 | 153,990 | 986.9 | 122,765 | 984.7 |
| 1982 | 438,490 | 998. 2 | 37.035 | 1,009.0 | 113.480 | 992.1 | 159,760 | 1,001.7 | 128,215 | 996.2 |
| 1953 | 448,150 | 996.8 | 37,110 | 994.7 | t15,885 | 992.7 | 162,360 | 9973 | 132,790 | 1,000.5 |
| 1984 | 467,525 | 1.014 .9 | 38,640 | 1,014.6 | 121,005 | 1.019 .3 | 168,220 | 1,0092 | 139,040 | 1,018.1 |
| 1955 | 470,855 | 1,000.0 | 38,485 | 994.7 | 121,875 | 996.18 | 169,675 | 997.3 | 140,825 | 1,007.6 |
| 1956 | 478,230 | 998.4 | 39,220 | 1,005.0 | 123,670 | 992.3 | 173,385 | 1,000.3 | 141,555 | 999.5 |
| 1957 | 489,460 | 1,010.2 | 39.975 | $1,021.5$ | 128,305 | 1,018.5 | 177,020 | 1,005.5 | 144,160 | 1,005.8 |
| 1958 | 488,960 | 996.0 | 38,805 | 986.2 | 127,665 | 1,004.3 | 178,335 | - 991.5 | 144,155 | 996.6 |
| 1959 | 494,985 | 1,001.7 | 39,180 | 993.6 | 128,370 | 1,007.7 | 181,845 | 997.5 | 145,590 | 1,004.0 |
| 1960 | 502,990 | 1,018.4 | 39,550 | 1,006.9 | 127,580 | 1,010.4 | 188,495 | 1,024.8 | 147,365 | 1,020.3 |
| 1961 | 494,300 | 1.001 .6 | 39,650 | 1,005.7 | 125,030 | 998.9 | 185,815 | 1,002.9 | 143,800 | 1,001.1 |
| 1962 | 488,325 | 998.6 | 39,215 | 996.7 | 122,685 | \$994.5 | 185,195 | 1,000.0 | 141,205 | 1,000.9 |
| 1963 | 486,930 | 1,022.2 | 39,540 | 1,019.3 | 122,140 | 1,017.8 | 185,040 | 1,020,4 | 140,205 | 1.029 .3 |
| 1964 | 472,435 | 1,030.3 | 38,765 | 1,025.0 | 119,375 | 1,034.7 | 181,380 | 1,035.6 | 132,915 | 1,020.9 |
| 1965 | 439,795 | 1,003.3 | 36,795 | 1,000.3 | 110,770 | 1,007.6 | 169,315 | 1,010.9 | 122,915 | 990.1 |
| 1966 | 405,150 | 971.7 | 34,775 | 976.2 | 101,870 | 981.0 | 154,605 | 972.3 | 113,695 | 961.5 |

Table 6.3 Popilation Distribution by Year of Birth(1), Canada and Regions, 1900 to 1991

| Blrth year | Canada |  | East |  | Quebec |  | Ontario |  | Weat |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Index | Number | Inder | Number | Index | Number | tmidex | Number | Index |
| 1967 | 387,490 | 970.3 | 34,035 | 977.0 | 95,505 | \$89.5 | 146,440 | 967.1 | 111,015 | 973.0 |
| 1968 | 379,780 | 975.3 | 33,740 | 971.4 | 91,700 | 967.9 | 143,640 | 973.3 | 110,705 | 985.2 |
| 1969 | 384,620 | 1,001.7 | 34,840 | 984.4 | 92.675 | 1,005.4 | 144,980 | 1,001.0 | 112.130 | 1,005.0 |
| 1970 | 350,025 | 1,025.8 | 36,265 | 1,003.0 | 91,940 | 1,019.2 | 147,555 | 1,033.1 | 114,265 | 1,029.0 |
| [97] | 377,990 | 1,002.8 | 38,075 | 1,033.0 | 89,085 | 997.3 | 141,090 | 1,003.7 | 109,735 | 996.0 |
| 1972 | 368,765 | 987.8 | 37,875 | 2,038.5 | 85,650 | 965.2 | 136.860 | 991.5 | 108,380 | 990.9 |
| 1973 | 363,260 | 981.0 | 37,245 | 998.2 | 87,270 | 980.1 | 132,355 | \$77.1 | 106,385 | 980.8 |
| 1974 | 366,625 | 993.9 | 36,455 | 988.3 | 89,750 | 995.2 | 132,305 | 992.0 | 108,115 | 996.9 |
| 1975 | 374,765 | 1,015.9 | 36,920 | 1,017.0 | 93,480 | 1,017.3 | 134,640 | 1,020.5 | 109,730 | 1,008.8 |
| 1976 | 371,015 | 1,003.3 | 35,945 | 1,005.6 | 94,760 | 1,014.9 | 130,675 | 995.6 | 109,635 | 1,000.8 |
| 1977 | 368,790 | 992.0 | 34,940 | 993.0 | 94,175 | 990.0 | 129,710 | 990.7 | 109,965 | 994.9 |
| 1978 | 367,820 | 985.7 | 33,930 | 982.0 | 94,680 | 985.9 | 128,900 | 984.6 | 110,310 | 987.9 |
| 1979 | 376,470 | 1,004.3 | 34,210 | 1,005.2 | 98,540 | 1,023.8 | 130,720 | 994.7 | 113,005 | 998.6 |
| 1980 | 381,695 | 1,013.8 | 33,735 | 1,001.2 | 97,990 | 1,024.4 | 134,585 | 1,017,3 | 115.390 | 1,003.9 |
| 1981 | 379.525 | 1,002.1 | 33,345 | 993.2 | 95,855 | 1,015.5 | 133,195 | 996.1 | 117,120 | 1,000.6 |
| 1982 | 377,450 | 994.0 | 3, 3,245 | 999.2 | 91,220 | 988.0 | 134,095 | 990.0 | 118.890 | 1,001.7 |
| 1983 | 378,530 | 996.5 | 33,345 | 1,008.1 | 88,370 | 979.7 | 135,990 | 995.7 | 120,82S | 1,006.9 |
| 1984 | 381,455 | 1,007.1 | 32,685 | 999.9 | 88,205 | 1,003.4 | t39,375 | 1,012.5 | 121,185 | 1,005.5 |
| 1985 | 382,300 | 1.014 .7 | 32.775 | 1,018.6 | 87,330 | 1,012.5 | 140,259 | 1,015.2 | 121,940) | 1,014,5 |
| 1986 | 374.140 | 998.3 | 31.395 | 995.2 | 84,410 | 987.7 | 138,530 | 1,002.1 | 119,800 | 1,002.3 |
| 1987 | 367,460 | 977.5 | 30,675 | 981.4 | 82,940 | 964.6 | 136,589 | 982.1 | 117,360 | \$80.5 |
| 1983 | 368,595 | 975.1 | 30.210 | 974.6 | 84,450 | 964.6 | 136,480 | 973.7 | 117,455 | 984.7 |
| 1989 | 387,050 | - | 31,240 | - | 90,805 | - | 143,520 | - | 121,480 | $=$ |
| 1990 | 392,750 | - | 31,470 | - | 95,145 | - | 145,715 | - | 120,415 | * |
| 1991 | 165,665 | - | 12,610 | - | 40,960 | - | 61.453 | - | 50,640 | * |

(1) Does not inchude Cansdians residing outside Canada.

To complete the evaluation of the year of birth data, an index was calculated to measure the regularity of the age distribution. The index was obtained by deternining the ratio of the number of births in year $x$ to the mean number of births in the five-year period centred in year $x$. This ratio is then multiplied by 5 , and presented as a multiple of 1,000.

$$
\text { index }=\frac{\text { births in year } x}{\text { births in years } x-2, x-1, x, x+1 \text { and } x+2} \times 5 \times 1,000
$$

An index above 1,000 is indicative of a "pull" toward birth year $x$ in reporting date of birth, while a lower index is indicative of a "push" away from birth year $x$. Indexes were calculated for Canada as a whole, the provinces and territories. Based on an earlier evaluation, indexes with values ranging from 975 to 1,025 were considered acceptable.
Mortality has a significant impact on the distribution of births by year. The earlier the year of birth, the more important its role. At the same time, undercoverage appears to have had a greater impact on the number of persons born. in the 1960s because of the higher undercoverage rate of the 20-24 and 25-29 age groups.

[^9]As illustrated in Table 6.3, the indexes reveal little variation from the acceptable range. Some discrepancies were noted for certain regions (namely in the east) but do not present problems in determining age. It should also be mentioned that discrepancies observed for the birth years 1917 through 1921 correspond exactly with discrepancies observed in the evaluation of the 1986 Census. The birth rate was lower during these years because of the First Worid War.
An evaluation of age data was also undertaken by using demographic estimates (June 1, 1991) ${ }^{(3)}$ as provided by the Demography Division. These estimates constitute an excellent source against which to compare census data, as they incorporate all components affecting the Canadian population and its composition since the last census. Since the quality of these estimates is high, the evaluation of census data by age is limited to a comparison with population estimates. Although estimates are available by province, territory, and census metropolitan area, the present evaluation was limited to Canadian provinces and territories ${ }^{(4)}$.
In order to facilitate data comparison, differences are expressed in percentage. Discrepancies for Canada as a whole are presented in Table 6.4, while those for the provinces and territories are presented in Table A1 in the Appendix. Acceptable discrepancies are established at $\pm 5 \%$ for populations greater than 100,000 and $\pm 10 \%$ for populations between 10,000 and 100,000 . Discrepancies for smaller populations are evaluated individually.

Table 6.4 Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Canada, 1991

| Age group | 1991 Cansus |  |  | Estimates |  |  | Discropancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Toeal | Men. | Wornen | Tond | Men | Women | Total | Men | Homen |
| TOTAL | 27,296,860 | 13,454,580 | 13,242, ${ }^{\text {2 }}$ ( 0 | 26,991,600 | 13,302,400 | 13,6\$9,200 | 1.1 | 1.1 | 1.1 |
| 0-4 | 1,906,495 | 975,760 | 930,735 | 1,936,100 | 990,700 | 945,400 | -1.5 | -1.5 | -1.5 |
| 5-9 | 1,903,045 | 478;220 | 929,625 | 1,866,400 | 956,600 | 909.700 | 2.2 | 2.3 | 2.2 |
| 10-14 | 1,878,015 | 962,925 | 915,0\% | 1,850,800 | 949,300 | 901,500 | 1.5 | 1.4 | 1.5 |
| 15-19 | 1,868,635 | 958,405 | 910,230 | 1,839,400 | 943,400 | 993,900 | 1.6 | 1.6 | 1.6 |
| 20-24 | 1,961,870 | 985,220 | 976,650 | 1,991,400 | 1,014,900 | 976,800 | +1.5 | $-2.9$ | 0.0 |
| 25-79 | 2,375,535 | 1,182,575 | 1,192,960 | 2,341,100 | 1,172,3016 | 1,168,800 | 1.5 | 0.9 | 2.1 |
| 30-34 | 2,491,045 | 1,237,685 | 1,253,360 | 2,429,200 | 1,207,400 | 1,221,800 | 2.5 | 2.5 | 2.6 |
| 35-39 | 2,284,475 | 1,133,665 | 1,150,810 | 2,245,400 | 1,112,400 | 1,133,000 | 1.7 | 1.9 | 1.6 |
| 40-44 | 2,086,900 | 1,042,185 | 1,044,715 | 2,054,800 | 1,023,300 | 1,031,500 | 1.6 | 1.8 | 1.3 |
| 4549 | 1,640,780 | 824,200 | 816,580 | 1,617,600 | - 810,200 | 807,500 | 1.4 | 1.7 | 1.1 |
| 50-54 | 1,325,460 | 663,285 | 662,175 | 1,309,200 | 652,6100 | 656,600 | 1.2 | 1.6 | 0.9 |
| 55-59 | 1,222,925 | 606,085 | 614.840 | 1,208,500 | 598,500 | 610,100 | 1.2 | 1.6 | 0.8 |
| 60.64 | 1,176,710 | 571,945 | 604,765 | 1,161,200 | 561,700 | 399,400 | 1.3 | 1.8 | 0.9 |
| 65.69 | 1,073,170 | 492,500 | 580,670 | 1,054,100 | 482,200 | 571,800 | 1.8 | 2.1 | 1.5 |
| 70-74 | 821,895 | 358,950 | 462,945 | 815,500 | 353,600 | 461,700 | 0.8 | 1.5 | 0.3 |
| 75-79 | 614,775 | 252,530 | 362,245 | 612,800 | 250,200 | 362,600 | 0.3 | 0.9 | -0.1 |
| 80-84 | 376,785 | 140,130 | 236,655 | 377,300 | 139.400 | 237,900 | 0.1 | 0.5 | -0.5 |
| 88.89 | 189,485 | 61,250 | 128,235 | 190.800 | 61,200. | 129,600 | -0.7 | 0.1 | -1.t |
| 90+ | 93,845 | 25,050 | 68.795 | 89,700 | 22,200 | 67,500 | 4.6 | 12.9 | 1.9 |

As illustrated in this comparison, there are few discrepancles in the data from these two sources. Other than for the two territories, no discrepancy outside the aecepted range is observed. However, this comparison hints at an undercoverage of young adult males, although the discrepancy remains within the accepted range. Overcoverage, in the order of $13 \%$, was also noted with respect to males over 90 years of age (indicative of a problem with the quality of data for the oldest age groups). Correspondingly, a more extensive evaluation would appear to be required with the aged.

### 1.2 Evaluation of sex data

Calculating sex ratios by five-year age groups for Canada, the provinces and territories, facilitates analysis of the population distribution by sex. The sex ratio is defined as the ratio of males to females, expressed as a multiple of 1,000. By examining the pattern of sex ratios in the 1976, 1981 and 1986 Censuses as well as 1991 demographic estimates, expected discrepancles can be established for the 1991 Census data. Acceptable discrepancies have been established at $\pm 15$ for the age groups $0-4$ to $55-59$, and $\pm 25$ for older groups. Sex ratios calculated from census data can correspondingly be evaluated on the basis of these discrepancies.

By and large, ratios remained within the acoeptable limits (Table 6.5) with only a few exceptions. Ratios for the $20-24$ age group were lower than the acceptable limits for Canada as a whole and for almost every province, (while this was also true for some of the provinces with the 25-29 age group). This is likely due to the higher rate of undercoverage associated with men in these age groups. Young adults in the $20-24$ age group are generally more mobile than the population in general, while this is particulanty tue for young men in this age group.

It should be mentioned that these discrepancies are very similar to those observed for the 1986 Census, suggesting that the problem of undercoverage for men in the 20-24 age group has not improved (or at least not in comparison with the level of undercoverage observed with respect to young women).

Moreover, a number of sex ratios depart slightly from the acceptable range for Prince Edward Island, the Yukon Territory and the Northwest Territories. While the small numbers involved likely explain such discrepancies, the quality of sex data for these regions can nonetheless be said to be satisfactory.

Table 6.5 Sex Ratios by Age Group, Canada, 1976, 1981, 1986 and 1991

| Agt group | Cenras |  |  | $\begin{array}{r} 1991 \\ \text { extimbtess (1) } \end{array}$ | Expected 1991 Censuas rayge | $\begin{array}{r} 1991 \\ \text { censur } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1976 | 1981 | 1986 |  |  |  |
| Total | 992 | 983 | 974 | 972 | 957-987 | 972 |
| 0-4 | 1,054 | 1.052 | 1,051 | 1,048 | 1,033-1,063 | 1.048 |
| 5-9 | 1,050 | 1,054 | 1,052 | 1,052 | 1,037-1,067 | 1.052 |
| 10.14 | 1,048 | 1,052 | 1,054 | 1,053 | 1,038-1,068 | 1.052 |
| 15-19 | 1,04! | 1,043 | 1,045 | 1,053 | 1,038-1,066 | 1,053 |
| 20-24 | 998 | 1,004 | 1,009 | 1,039 | $1.024-1.054$ | 1,009 |
| 25-29 | 1,008 | 492 | 990 | 1,003 | 988-1,018 | 991 |
| 30-34 | 1,022 | 1,004 | 984 | 988 | 973-1,003 | 987 |
| 35-39 | 1,02] | 1,018 | 99\% | 982 | 967-997 | 985 |
| 40.44 | 1,030 | 1,017 | 1,009) | 992 | 977-1,007 | 998 |
| 45-49 | 1,013 | 1,023 | 1,006 | 1,003 | 988-1,018 | 1,009 |
| 50-54 | 954 | 1,000 | 1,005 | 994 | 979-1,009 | 1,002 |
| 55-59 | 934 | 929 | 974 | 981 | 966-996 | 989 |
| 60-64 | 928 | 894 | 898 | 937 | 912-962 | 946 |
| 65.69 | 885 | 861 | 834 | 843 | 818-883 | 848 |
| 70-74 | 826 | 799 | 783 | 766 | 74t-791 | 775 |
| 75. | 653 | 623 | 604 | 593 | \$63-618 | 602 |

(1) According to dernographic estimatess, Demography Division

Table 6.6 Comparison of 1991 Census Sex Ratios with Expected 1991 Census Values Range, by Age Group and Provinces(1), 1991(2)

| Age group | Nad. | P.E.I. | N.S. | N.B. | Qpo. | Omt. | Man. | Sagk | Alta. | B.C. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-4 |  |  |  |  |  |  |  |  |  |  |
| 5.9 |  |  |  |  |  |  |  |  |  |  |
| 10-14 |  |  |  |  |  |  |  |  |  |  |
| 15.19 | * |  |  |  |  |  |  |  |  |  |
| 20-24 |  | - | - | - | - | * | - | - | - | - |
| 25-29 | - | - | - | - |  | - |  | - |  |  |
| 30-34 |  | - |  |  |  |  |  |  |  | * |
| 35-39 |  |  |  |  |  |  |  |  |  |  |
| 40-44 |  | + |  |  |  |  |  | + |  |  |
| 45-49 |  |  | + |  |  |  | , | + |  | * |
| 50-54 |  |  |  |  |  |  |  |  |  |  |
| 55-59 |  |  |  |  |  |  | * |  |  |  |
| 60.64 |  | 4 |  | . |  |  |  |  |  |  |
| 65-69 |  | + |  |  | . |  |  |  |  |  |
| 70-74 |  |  |  |  |  |  |  |  |  |  |
| 75+ |  | + | - |  |  |  |  |  |  |  |

(1) The Yukon Tertitory and Northwest Tertitories are excluded because the small ligures involved make comparisoos difficult.
(2) (+) Over exprocted range.
(-) Under expected range.

### 1.3 Evaluation of marital status data

Marital status data were evaluated through three separate analyses. The first involved comparing population distribution by legal marital status (for five year age groups, sex and province) with a corresponding distribution from the General Social Survey (GSS). This survey does not include data for Canada's territories. The GSS is the only source available for the purpose of comparing data on legal marital status. The second evaluation involved comparing marital status data with data derived from a historical series of previous censuses (1976, 1981, 1986), examining the degree of change by age group, sex, province and temitories. While acknowledging the difficulties in drawing comparisons overtime with cross-sectional data, a cohort analysis was enacted, in following the marital experiences of specific age cohorts over time. Finally, the third evaluation invoived comparing marital status data with demographic estimates as provided by the Demography Division, again working toward the same level of disaggregation.

Since the GSS collected data on common-law unions in early 1990, the data are not strictly comparable with the census, held on June 4, 1991. Nevertheless, given the fact that the GSS is the only survey source that provides a distribution by legal marital status and that data on legal marital status was first gathered for the 1991 Census, it appears useful to compare the two sources.

The comparison of 1991 Census and GSS data in Table 6.7 (and Table A2 of the Appendix for the provinces and territories) reveals few differences in distribution by legal marital status. For Canada as a whole, the discrepancy is less than 1 percentage point for men and 1.6 percentage points for married and widowed wormen. Larger discrepancies were noted, however, for specific age groups (and for a specific province, i.e. P.E.I.). This is likely due to GSS sampling errors, as the survey data show considerable variation by age group.

Table 6.7 Discrepancy Between Population Distribution from the $\operatorname{GSS}(1)$ and from the Census, by Age Group, Sex and Legal Marital Status, Canada, 1991

| A矢 group | Stinge | Married | Martied! sopperated | Yidowned | Dforored | Singie | Married | Manried) separated | Whdowed | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  |  | Women |  |  |  |  |
|  | in percontage point |  |  |  |  |  |  |  |  |  |
| Total | -0.72 | 0.79 | 0.15 | -0.23 | 0.00 | -0.71 | 1.58 | 0.10 | -1.61 | 0.63 |
| 15-19 | 0.57 | -0.44 | -0.05 | -0.03 | -0.04 | 0.27 | -0.25 | 0.10 | -0.06 | -0.06 |
| 20-24 | 0.49 | -0.02 | -0.47 | 0.08 | -0.08 | -0.23 | 0.54 | 0.29 | -0.10 | -0.50 |
| 25-29 | -6.07 | 6.28 | 0.54 | -0.06 | 0.70 | -4.10 | 3.14 | -0.08 | -0.16 | 1.17 |
| 30.34 | 1.42 | -0.92 | -0.25 | -0.13 | 4.11 | -2.01 | 2.04 | -0.55 | -0.07 | 0.58 |
| 35-39 | -4.30 | 3.08 | 0.31 | -0.08 | 1.00 | -1.18 | -0.49 | 0.97 | 0.52 | 0.18 |
| 40-44 | -2.18 | 2.23 | 0.04 | -0.02 | -0.07 | -1.56 | 3.54 | 0.57 | -0.60 | -1.94 |
| 45-49 | -2.18 | 0.27 | 2.21 | -0.18 | -0.1] | -2.97 | . 3.10 | 0.01 | -0.25 | 6.31 |
| 50-54 | 0.14 | -0.11 | 0.77 | -0.70 | -0.09 | -1.76 | 2.41 | .0.64 | -1.86 | 1.86 |
| 55-59 | -3.44 | 0.05 | 2.70 | -0.20 | 0.88 | -2.12 | 4.87 | 0.04 | -0.71 | -2.08 |
| 60-64 | -1.12 | -1.69 | -1.44 | 3.88 | 0.38 | -2.52 | 3.18 | 0.58 | -3.49 | 2.26 |
| 65.69 | -2.86 | 5.56 | -1.24 | -1. 25 | -0.22 | -1.26 | -2.39 | -0.03 | 3.57 | 0.11 |
| 70.74 | -3.59 | 0.51 | -1.13 | 1.65 | 2.55 | -0.28 | 4.44 | -0.33 | -4.33 | 0.50 |
| 75-79 | -1.29 | 3.12 | -0.24 | -1.00 | -0.59 | 1.23 | -0.81 | -0.38 | -0.59 | 0.55 |

(1) 1990 distribution figures.

Growth rates of the population by age group, sex and marital status were computed with census data for the 1976-1981, 1981-1986 and 1986-1991 periods. A cohort analysis was enacted since it is easier to interpret change in marital status within cohorts than to compare change across different cohorts. These rates as presented in Table 6.8 permit an analysis of population distribution by marital status (for selected age cohorts and by sex).

As suggested in Table 6.8, the percentage of persons with single status decreases sharply to the age of 35 . For example, this is reflected in the fact that the percentage of women with single status in the 25-29 age group in 1991 was $47.5 \%$ less than was the case for this same cohort 5 years earlier (i.e. persons aged 20-24 years in 1986). Table 6.8 also suggests that the percentage of persons with single status continues to decline after age 35 , but in a less dramatic manner (since the loss of never married status is most obviously irreversible).
As the number of single persons within a cohort decreases, the number of married persons increase. As the number of young married adults rises, the divorce rate simultaneouslygains in importance. In the older age groups, especially for women, the number of mamied persons correspondingly serves to increase the ranks of the divorced, separated and widowed.

Not surprisingly, the widowed population takes on greater importance for older age groups. The number of widowed persons has continued to increase, as a greater number of persons become widowed than leave widowhood (by either remarrying or entering a common-law union).

Table 6.8 Population Change of Age Group (i) in Census Year (m), Compared with Age Group (i-5) in Census Year (m-5), by Sex and Marital \$tatus, Canada, 1976-1981, 1981-1986 and 1986-1991

| Age cohnort <br> (1991) | Total |  | Single |  | Mmeried |  | Widowed |  | Divorced |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Men | Women | Mant | Wemen | Mer | Women | Hen | Women |
| percentige |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  |  |  | . |  |  |  |  |  |
| 1976-198] | 1.5 | 1.9 | $\pm .1$ | -4.9 | - | - | - | - | - | - |
| 1981-1986 | -4.3 | -1.0 | -23.0 | -36.2 | - | - | - | - | - | - |
| . 1986-1981 | 4.5 | 6.3 | +39.7 | -47.5 | 169.0 | 84.0 | 32.1 | 77.2 | 524.4 | 335.3 |
| 30-34 |  |  |  |  |  |  |  |  |  | . |
| 1976-1981 | -1.8 | 1.8 | -27.9 | 43.3 | - | - | - | - | - | - |
| 1581-1986 | -0.8 | 0.6 | 45.4 | -49.4 | 110.9 | 49.7 | 43.3 | 95.4 | 382.7 | 246.8 |
| 1986-1991 | 6.2 | 8.5 | -34.9 | -32.3 | 30.7 | 17.2 | 96.4 | 70.8 | 140.9 | 89.4 |
| 35.39 |  |  |  |  |  |  |  |  |  |  |
| t976-198] | 1.7 | 2.4 | 51.9 | -54.9 | 110.7 | 46.0 | 39.1 | 100.3 | 564.0 | 320.8 |
| 1981-1986 | 0.0 | 0.8 | -38.8 | -32.7 | 16.3 | 6.3 | 82.2 | 60.8 | 94.4 | 78.9 |
| 1986-1991 | 4.6 | 4.4 | -20.8 | -15.9 | 8.6 | 4.9 | 73.7 | 58.2 | 62.1 | 43.8 |
| 40.44 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | 2.1 | 2.5 | 43.4 | -34.3 | 16.9 | 6.7 | 52.8 | 66.4 | 138.3 | 102.2 |
| 1981-3986 | -1.0 | 0.2 | -24.3 | -17.5 | 1.3 | -1.2 | 75.3 | 61.2 | 51.9 | 48.7 |
| 1986-1991 | 3.1 | 2.9 | -11.4 | -6.5 | 2.9 | 0.8 | 66.4 | 57.1 | 40.0 | 32.5 |
| 45-49 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | 0.0 | 0.4 | -28.5 | -19.3 | 2.4 | -0.6 | 61.9 | 64.2 | 79.6 | 64.8 |
| 1981-1986 | -1.4 | . 0.5 | -12.8 | -8.8 | -2.2 | -3.2 | 71.3 | 60.4 | 44.9 | 38.7 |
| 1986-1991 | 1.6 | 1.6 | -7.0 | -3.6 | 0.7 | -1.3 | 59.8 | 56.0 | 26.0 | 23.8 |
| 50-54 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | 0.5 | 0.9 | -13.9 | -8.9 | 0.0 | -1.6 | 60.3 | 66.1 | 72.7 | 53.6 |
| 1991-1986 | 2.2 | -1.1 | -9.6 | -5.6 | -3.4 | 4.3 | 64.3 | 58.6 | 33.3 | 27.8 |
| 1986-4991 | 0.5 | 0.9 | . 5.9 | -2.1 | -0.4 | -2.8 | 54,0 | 56.9 | 16.4 | 18.3 |
| s5-s9 . |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -1.4 | -0.6 | -10.7 | -6.9 | -2.6 | -3.9 | 62.5 | 62.4 | 62.6 | 43.4 |
| 1981+1986 | -2.9 | -1.2 | -7.9 | 4,5 | 4.4 | - -5.3 | 58.4 | 58.2 | 26.8 | 21.3 |
| 1986-1991 | -1.3 | 0.3 | -7.6 | -1.9 | -2.1 | -5.2 | 48.1 | 54.8 | 6.9 | 14.7 |
| $60-64$ |  |  |  |  |  |  |  |  |  |  |
| [976-198] | -1.4 | -0.1 | -7.2 | -2.9 | . 3.0 | -4.8 | 60.1 | 64.1 | 53.4 | 36.3 |
| 1981+1986 | 4.5 | -2.0 | -9.6 | 4.8 | -5.9 | -7.8 | 49.5 | 52.7 . | 15.9 | 15.3 |
| 1986-199] | -3.7 | -0.8 | -6.9 | -1.9 | -4.8 | -9.1 | 45.0 | 48.4 | 0.0 | 9.8 |
|  |  |  |  |  |  |  |  |  |  |  |
| 1976-198] | -4.6 | -2.1 | -9.9 | -5.2 | -6.2 | -8.6 | 50.3 | 56.1 | 38.7 | 25.5 |
| 1981-1986 | -6.7 | -2.7 | -12.4 | 4.7 | -8.2 | -11.5 | 47.2 | 46.3 | 4.8 | 9.2 |
| 1986-1991 | . 72 | -2.4 | -13.1 | -3.4 | . -9.0 | -14.3 | 39.7 | 39.3 | -5.4 | 3.8 |

Table 6.8 Population Change of Age Group (j) in Census Year (m), Compared with Age Group (j-5) in Census Year (m-5), by Sex and Marital Status, Canada, 1976-1981, 1981-1986 and 1986-1991

| Age cobort (1991) | Total |  | Stingle |  | Matrited |  | Vidowned |  | Diforced |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Homan | M** | Whomen | Men | Women | Men | Women | Men | Women |
|  | percentage |  |  |  |  |  |  |  |  |  |
| 70.74 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -6.1 | -1.9 | -11.0 | -3.9 | -8.0 | -11.5 | 46.4 | 47.6 | 27.2 | 19.6 |
| 1981-1986 | -10.3 | -3.8 | -16.4 | -5.3 | -12.4 | -16.6 | 38.8 | 37.4 | -5.0 | 2.0 |
| 1986-1991 | -13.4 | -6.9 | -19.7 | -7.7 | -16.2 | -23.1 | 30.7 | 25.5 | .i7.1 | -8.1 |
| 75-79 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -10.4 | -3.4 | -15.4 | -5.1 | -12.8 | -17.2 | 36.7 | 38.4 | 13.0 | 9.4 |
| 1981-1986 | -16.9 | * 8.8 | -22.9. | -9.7 | 6.8 | 13.3 | 2.8 | 4.7 | $35.1)$ | 52.4 |
| 1986-1991 | -22.2 | -12.5 | -28.1 | -13.0 | -44.8 | -56.8 | 43.5 | 30.9 | -55.1 | . 51.2 |
| 80-84 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -16.9 | -7.9 | -22.5 | -8.8 | -20.3 | -26.6 | 26.6 | 24.3 | -2.3 | -3.6 |
| \$981-1986 | -25.4 | -14.7 | -31.1 | -15.3 | -29.9 | -36.8 | 12.3 | 8.0 | . 26.9 | -20.9 |
| J986-1991 | -33.2 | -21.2 | -37.8 | -21.4 | -39.4 | -47.2 | -2.4 | -5.6 | +37.5 | -28.6 |
| 85-89 |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -25.2 | -13.7 | -30.3 | -14.3 | -30.3 | -35.9 | 12.0 | 9.6 | -14.4 | -16.7 |
| 1981-1986 | -36.1 | -23.1 | 40.4 | -23.4 | -42.6 | -49.7 | -6.7 | +6.5 | . 37.3 | -27.7 |
| 1986-1991 | -46.9 | -33.9 | $-49.4$ | -34.0 | -54.8 | -60.9 | +25.5 | .25.7 | . 53.3 | .40.9 |
| $90+$ |  |  |  |  |  |  |  |  |  |  |
| 1976-1981 | -36.5 | -23.8 | -41.0 | .24.7 | -44.1 | -51.9 | -8.6 | -9.1 | -33.1 | -32.0 |
| 1981-1986 | -48.5 | -36.0 | -51.7 | -36.5 | +57.1 | . 64.3 | -29.4 | -28.2 | 49.9 | +38.8 |
| 1986-1991 | -48.4 | -33.6 | -41.3 | . 29.4 | +59.8 | . 61.2 | -34.6 | +30.5 | 41.1 | -23.2 |

This brief analysis reveals that patterns within cohorts (for each category of marital status) seem to correspond with patterns already observed. In this context, the data are consistent with expectations, without revealing any suspicious patterns.
To complete this evaluation of marital status data, demographic estimates are relied upon. Ratios of the census counts to the estimated population by age group, sex and marital status were calculated (as mentioned earlier, estimates do not include non-permanent residents, even though they were included in census data). As illustrated in Table 6.9, data from the two sources correspond fairly closely (with the exception of the following categories: "Married" in the 15-24 age group, and "Widowed" or "Divorced" in the younger age groups).

Estinates of the married population under the age of 25 (which include persons living in common-law unions) seem much too low. In addition, estimates of the number of separated persons, also included in this age category, also appear to be rather low. With regard to the discrepancies in the data on young divorced and widowed adults, small numbers make further comparisons difficult.

[^10]Table 6.9 Ratio of Enumerated Population to Estimated Population, by Age Group, Sex and Marital Status, Canada, 1991

| Afegroup | Single | Manted | Whdowed | Divoreed | Singa | Married | Whdowted | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  | Women |  |  |  |
| Total | 0.97 | 1.02 | 0.96 | 0.76 | 0.97 | 1.00 | 1.00 | 0.86 |
| 15-19 | 1.01 | 5.46 | 23.08 | 9.13 | 0.98 | 3.10 | 9.82 | 3.79 |
| 20-24 | 0.89 | 1.57 | 0.90 | 0.68 | 0.87 | 1.33 | 0.79 | 0.68 |
| 25-29 | 0.91 | 1.11 | 0.81 | 0.56 | 0.97 | 1.03 | 0.80 | 0.66 |
| 30-34 | 1.06 | 1.01 | 0.97 | 0.61 | 1.09 | 0.99 | 0.92 | 0.75 |
| 35-39 | 1.10 | 1.00 | 0.95 | 0.71 | 1.06 | 0.98 | 0.93 | 0.83 |
| 40.44 | 1.09 | 1.00 | 0.96 | 0.77 | 1.05 | 0.98 | 0.97 | 0.88 |
| 45-49 | 1.03 | 1.00 | 0.95 | 0.78 | 1.04 | 0.98 | 0.98 | 0.90 |
| 50.54 | 1.06 | 1.00 | 0.92 | 0.81 | 1.03 | 0.98 | 0.98 | 0.93 |
| 55-59 | 1.06 | 1.00 | 0.92 | 0.86 | 1.03 | 0.98 | 0.98 | 0.96 |
| 60.64 | 1.07 | 1.00 | 0.96 | 0.89 | 1.03 | 0.98 | 0.99 | 0.97 |
| 65-69 | 1.07 | 1.00 | 1.00 | 0.44 | 1.04 | 0.98 | 1.02 | 0.97 |
| 70-74 | 1.06 | 1.00 | 0.96 | 0.91 | 1.02 | 0.97 | t. 01 | 0.91 |
| 75-79 | 1.96 | 0.99 | 0.95 | 0.91 | 1.01 | 0.96 | 1.00 | 0.89 |

### 1.4 Evaluation of data on number of persons living in common-law unions

GSS data and dernographic estimates on the number of families in Canada can be used to evaluate data on persons living in common-law unions (by age, sex and marital status). These alternate data sources are to our knowledge, the only available sources of recent data on the distribution of the population living in common-law unions. Irrespective of this fact, this distribution can also be evaluated on the basis of changes wimessed with respect to the number of common-law unions in Canada, in drawing systematic comparisons with previous censures.
According to the census, $1,451,905$ persons were living in common-law unions in 1991. This represents an increase of $49 \%$ over 1986, when 973,880 persons were enumerated (Table 6.10). This sizeable increase is higher than that observed between 1981 and 1986 (37\%).

Table 6.10 Number and Rate of Increase in Number of Persons Living in Common-law Unions, Canada, Provinces and Territories, 1981, 1986 and 1991

| Provincetemitory | Narober |  |  | Rate (\%) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1981 | 19*6 | 1991 | 1981-1986 | 1986-1991 |
| Cansila | 713,215 | 973,8850 | 1,451,905 | 37 | 49 |
| Newfourdland | 5,605 | 10,075 | 19.925 | 80 | 98 |
| Prince Edward Island | 1,615 | 2,615 | 4,055 | 62 | 55 |
| Nowa Scouta | 18,443 | 26,405 | 40,245 | 43 | \$2 |
| New Brunswick | 12,710 | 19,205 | 31.730 | 51 | 65 |
| Quaber | 241,775 | 377,320 | 613,815 | 56 | 63 |
| Ontario | 203,730 | 269,440 | 364.310 | 32 | 35 |
| Manitoba | 23,750 | 30,610 | 42,625 | 29 | 39 |
| Saskawhewno | 19,280 | 27,475 | 35,500 | 43 | 29 |
| Aberra | 80,455 | 90,300 | 119,900 | 12 | 33 |
| British Cohumbia | 102,064 | 115,290 | 171,260 | 13 | 49 |
| Yukon Territory | 1,740 | 1,965 | 2.830 | 13 | 44 |
| Northwest Territories | 2,060 | 3,175 | 5,655 | 54 | 78 |

The number of persons living in common-law unions increased most rapidly in Newfoundland, where an increase of $98 \%$ was recorded. Sinilarly, in the Northwest Territories, this increase was in the order of $78 \%$. Further increases, at about $60 \%$, were also recorded for New Brunswick and Quebec. This growth was not as high in Ontario and the Prairies, where the percentage increase hovered at about $30 \%$.
In drawing comparisons across age groups, it would appear that the pattern observed for 1986-1991 is very similar to that recorded for the 1981-1986 period. The most rapid increase was among adults over 35 years of age (Table 6.11). For example, the number of persons in the 45-49 age group doubled between 1986 and 1991. A large increase was also noted in the 50-54 age group, whereby the number of persons living in common-law unions increased by $78 \%$ for men and $68 \%$ for women.

A comparison of the percentage increase in the number of persons living in common-law unions over the last two intercensal periods reveals that although a sharp increase appeared over the 1986-1991 period, this is not entirely out of line with a high rate of increase witnessed in 1981-1986. A noteworthy exception to the general prattern as documented was witnessed with respect to the 15-19 age group, which experienced a reduction in the incidence of common-law relationships over the 1981-1986 period, only to experience an increase in their likelihood over the 1986-1991 period. The percentage increase over the latter period ( $41 \%$ for young men and $21 \%$ for young women) appears to be a realistic portrayal of recent changes.

Table 6.11 Distribution and Rate of Increase in Number of Persons Living in Common-law Unions, by Age Group and Sex, Canada, 1981, 1986 and 1991

| Age <br> grocip | Number |  |  |  |  |  | (1ate (\%) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1981 |  | 1986 |  | 1991 |  | 1981-1986 |  | 1986-1991 |  |
|  | Men | Women | Man | Wonten | Mth | Women | Men | Women | Men | Women |
| Total | 356,610 | 356,610 | 486,945 | 4*6,945 | 725,945 | 725,945 | 37 | 37 | 49 | 49 |
| 15-19 | 8,340 | 32,450 | 4,655 | 21,535 | 6,570 | 26,135 | -44 | -34 | 41 | 21 |
| 20-24 | 83,080 | 109,625 | 81,630 | 123,500 | 89,195 | 138,485 | -2 | 13 | 9 | 12 |
| 25-29 | 88,120 | 77,675 | 122,670 | 116,085 | 163,840 | 169,060 | 39 | 49 | 34 | 46 |
| 30-34 | 61,160 | 47,865 | 90,335 | 76,730 | 140,410 | 130,900 | 48 | 60 | 55 | 71 |
| 35-39 | 38,715 | 29,325 | 65,010 | 52,670 | 101,305 | 91,980 | 68 | 80 | 56 | 75 |
| 40.44 | 24,230 | 18.715 | 42,395 | 33,950 | 76,735 | 65,490 | 75 | 81 | 81 | 93 |
| 45-49 | 17,630 | 13,275 | 26,525 | 21,110 | \$3,570 | 42,130 | 50 | 59 | 102 | 100 |
| 50.54 | 13,315 | 10,290 | 19,215 | 14,430 | 34,155 | 24,310 | 44 | 40 | 78 | 68 |
| 55-59 | 9,010 | 7.450 | 13,710 | 10,410 | 24,020 | 14,680 | \$1 | 40 | 75 | 4) |
| 60-64 | 5,740 | 4,770 | 9,245 | 7,625 | 16,330 | 9.710 | 61 | 60 | 77 | 27 |
| 65* | 7200 | 5,170 | 11,555 | 6,895 | 19,815 | 13,065 | 60 | 72 | 71 | 47 |

The second evaluation involved comparing census data with GSS data. Correspondingly, a ratio was calculated (by age group and sex for Canada as a whole, and the provinces ${ }^{(3)}$ ), that being the ratio of the population living in common-law unions according to the 1991 Census to the population living in common-law unions according to the GSS. Although the GSS was conducted in early 1990 (more than a full year before the 1991 Census), this date was used since it was one of the most recent data sources available on the incidence of common-law unions in Canada.

In reading Table 6.12, GSS sampling errors make it difficult to achieve decisive conclusions when drawing comparisons by age group. Nevertheless, with the exception of Newfoundland, census figures are lower than those from the survey. According to the census, there were $1,451,890$ persons living in common-law unions, while the GSS placed the figure at $1,589,160$. In other words, in comparison with the survey; the census appears to have underestimated the number of persons living in common-law unions by 137.3 thousand, or $8.7 \%$. Although small numbers often make comparison difficult, it is possible that young adults, in particular, were underestimated in the census. The Atlantic provinces, and Newfoundland in particular, were the only provinces for which census figures were significantly higher than survey figures.

[^11]Table 6.12 Ratio of Population in Common-law Unions from the Census to GSS, by Age Group and Sex, Canada and Provinces, 1991

| Age groulp and sax | Canada | Nild | P.E. 1. | N.S. | N.B. | Que. | Ont. | Man | Sank | Alts. | B.C. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Both sexes |  |  |  |  |  |  |  |  |  |  |  |
| 15+ | 0.91 | 2.12 | 1.07 | 0.94 | 1.21 | 0.69 | 0.92 | 0.79 | 0.78 | 0.84 | 1.00 |
| 15-19 | 0.77 | - | - | 0.26 | 1.40 | 0.75 | 0.63 | 1.63 | 0.51 | 0.62 | 3.25 |
| 20-24 | 0.81 | 0.98 | 1.32 | 0.65 | 0.92 | 0.80 | 0.80 | 0.47 | 0.70 | 0.97 | 0.90 |
| 25-29 | $0.9]$ | 2.05 | 1.15 | 1.14 | 2.58 | 0.79 | 1.03 | 0.87 | 0.86 | 1.25 | 0.84 |
| 30.34 | 0.80 | 3.29 | 0.74 | 0.81 | 1.04 | 0.75 | 0.85 | 1.37 | 0.71 | 0.66 | 0.85 |
| 35-39 | 0.97 | 3.66 | 0.96 | 1.22 | 0.82 | 1.09 | 0.75 | 0.60 | 0.75 | 1.47 | 1.01 |
| 40-44 | 1.11 | - | - | 0.91 | 3.54 | 1.21 | 1.21 | 0.71 | 0.56 | 0.52 | 1.47 |
| 45-49 | 0.89 | - | 1.07 | - | 0.70 | 4.82 | 1.13 | 0.91 | 1.13 | 0.38 | 1.18 |
| 50-54 | 1.46 | 1.08 | 0.61 | - | - | 1.22 | 1.15 | 1.03 | - | - | 3.04 |
| 55-59 | 1.57 | - | 0.21 | 1.14 | 1.04 | 2.55 | 1.10 | - | 0.73 | 0.43 | 0.85 |
| 60.64 | 0.77 | - | - | - | 0.36 | 1.80 | 0.48 | - | 1.76 | - | 1.19 |
| 65-69 | 1.04 | - | - | 0.49 | 0.84 | 1.68 | 2.01 | 0.58 | - | 0.41 | 0.90 |
| 70-74 | 1.40 | - | - | 0.59 | - | - | - | - | - | - | 0.80 |
| 75-79 | 1.45 | - | - | - | 0.38 | 0.63 | 1.59 | - | - | - | 1.59 |
| Men |  |  |  |  |  |  |  |  |  |  |  |
| 15* | 0.90 | 2.27 | 1.17 | 1.08 | 0.99 | 0.86 | 0.89 | 0.61 | 0.83 | 0.92 | 4.99 |
| 15-19 | 0.77 | - | - | 0.09 | - | 0.78 | 0.91 | - | - | 0.47 | - |
| 20-24 | 0.72 | 0.79 | 1.40 | 0.64 | 0.54 | 0.77 | 0.81 | 0.33 | 0.31 | 0.91 | 0.67 |
| 25-29 | 0.98 | 2.57 | 1.56 | 0.97 | 2.13 | 0.84 | 1.01 | 1.09 | 1.11 | 2.43 | 0.83 |
| 30-34 | 0.76 | 3.49 | 0.63 | 1.02 | 1.80 | 0.69 | 0.86 | 1.49 | 0.42 | 0.65 | 0.85 |
| 35.39 | 0.93 | - | - | 2.42 | 0.73 | 1.01 | 0.66 | 0.44 | 0.72 | 0.94 | 0.80 |
| 40-44 | 1.13 | - | - | - | 1.94 | 1.27 | 1.05 | 1.36 | 1.13 | 0.36 | 2.55 |
| 45-49 | 0.90 | - | 0.65 | - | 0.40 | 0.72 | 4.75 | - | - | 2.20 | 1.51 |
| 50.54 | 1.13 | 0.65 | - | - | - | 0.90 | 0.93 | 0.61 | - | - | 1.78 |
| 55-59 | 1.46 | - | 0.14 | 0.67 | - | 1.59 | 1.23 | - |  | 0.70 | 3.12 |
| 60.64 | 0.80 | - | - | - | 0.22 | 1.13 | 0.37 | - | - | - | - |
| 65-69 | 1.05 | - | - | 0.30 | 0.47 | 2.23 | 1.19 | - | * | 0.56 | 0.54 |
| 70.74 | 2.81 | - | - | - | - | - | - | - | - | - | 0.45 |
| 75-79 | 0.88 | - | - | - | 0.26 | 0.59 | 0.98 | - | $\cdots$ | - | 0.91 |
| Wowen |  |  |  |  |  |  |  |  |  |  |  |
|  | 0.92 | 1.98 | 0.98 | 0.83 | 1.55 | 0.91 | 0.95 | 0.77 | 0.74 | 0.77 | 1.02 |
| 15-19 | 0.76 | - | - | 0.50 | 1.13 | 0.77 | 0.58 | 1.28 | 0.40 | 0.68 | 2.61 |
| 20-24 | 0.87 | 1.14 | 1.26 | 0.66 | 1.67 | 0.82 | 0.79 | 0.67 | 0.96 | 1.01 | 1.16 |
| 25-29 | 0.86 | 1.68 | 0.86 | 1.39 | 3.28 | 0.75 | 1.04 | 0.72 | 0.69 | 0.83 | 0.85 |
| 30-34 | 0.54 | 3.07 | 0.88 | 0.66 | 0.71 | 0.82 | 0.83 | 1.25 | 3.62 | 0.68 | 0.85 |
| 35-39 | 1.02 | 1.67 | 0.45 | 0.79 | 0.95 | 1.19 | 0.66 | 0.99 | 0.77 | 4.05 | 1.41 |
| 40-44 | 1.08 | - | - | 0.43 | - | 1.14 | 1.47 | 0.46 | 0.35 | 1.06 | 0.99 |
| 45-59 | 0.88 | - | - | - | - | 0.98 | 2.96 | 0.40 | 0.52 | 0.19 | 0.93 |
| 50-54 | 2.47 | - | 0.26 | - | - | 2.53 | 1.68 | - | - | - | - |
| 55.59 | 1.180 | - | - | - | 0.40 | * | 0.95 | - | 0.27 | 0.26 | 0.38 |
| 60-64 | 0.72 | - | - | - | - | - | 1.03 | - | 0.63 | - | 0.45 |
| 65-69 | 1.04 | - | - | - | - | 1.30 | - | 0.24 | - | 0.29 | - |
| 70.74 | 0.82 | - | - | 0.25 | - | - | - | - | - | - | - |
| 75-79 | - | - | - | - | - | 0.70 | - | - | - | - | - |

The last evaluation involved comparing results with family number estimates obtained from the Demography Division. These estimates were arrived at by using 1986 Census results, adding or deleting all events which altered the number of families as required (marriages, divorces, deaths, migrations, common-law unions). These estimates can therefore be used to derive data on persons living in common-law unions.

Table 6.13 Number of Persons in Common-law Unions from the Census and Demographic Estimates, by Age Group and Sex, Canada, 1991

| Age group and sex | Cansus | Estimates | (Cemoundestimates) |
| :---: | :---: | :---: | :---: |
| Both sexts |  |  |  |
| 15 | 1.451.890 | 1,252,000 | 1.16 |
| 15.19 | 32,715 | 17,500 | 1.87 |
| 20-24 | 227,685 | 1\%6,900 | 1.16 |
| 25-29 | 332,900 | 295,100 | 1.13 |
| 30-34 | 271,305 | . 240,400 | 1.13 |
| 35-39 | 193,290 | 166.700 | 1.16 |
| 40-44 | 142,225 | 126,500 | 1.12 |
| 45-49 | 95,695 | 77,400 | 2.24 |
| 50-54 | 58,470 | 46,500 | 1.26 |
| \$5.59 | 38,700 | 31,300 | 1.24 |
| 60-64 | 26,045 | 22,500 | 1.16 |
| 65. | 32,685 | 31,200 | 1.06 |
| Men |  |  |  |
| 15* | 725,945 | 626,000 | 1.16 |
| 15-19 | 6,570 | 2,200 | 3.05 |
| 20-24 | 89,195 | 73,500 | 1.21 |
| 28-29 | 163,840 | 148,400 | 1.10 |
| 30.34 | 140.410 | 127,000 | 1.11 |
| 35-39 | 101,305 | 89,800 | 1.13 |
| 40-44 | 76.735 | 68,700 | 1.12 |
| 49-49 | 53,570 | 42,300 | 1.27 |
| 50-54 | 34,155 | 26,400 | 1.29 |
| 55-59 | 24,020 | 17,800 | 1.35 |
| 60-64 | 16,330 | 12,500 | 1.31 |
| 65. | 19,815 | 17,200 | 1.15 |
| Wharen |  |  |  |
| $15+$ | 725,945 | 626,000 | 1.16 |
| 15-19 | 26,135 | 15,300 | 1.70 |
| 20.24 | 138,485 | 123.300 | 1.12 |
| 25-29 | 169,060 | 146.700 | 1.15 |
| 30-34 | 130,900 | 113.400 | 1.15 |
| 35-39 | 91,980 | 76,900 | 1.20 |
| 40-44 | 65,490 | 57.800 | 1.13 |
| 45-49 | 42,130 | 35,100 | 1.20 |
| 50-54 | 24,310 | 20.100 | 1.21 |
| 55-59 | 14,680 | 13,500 | 1.09 |
| 60-64 | 9,710 | 10,000 | 0.97 |
| 65, | 13,065 | 14,000 | 0.94 |

Table 6.13 provides a comparison between census data and estimates with regard to persons in common-law unions. Compared to the estimates, the census appears to have overestimated the number of common-law unions by $16 \%$. This is even higher in examining the 15-19 age group, especially with respect to the men in this age group. In inter-

[^12]pretation, however, it remains possible that the estimates, extrapolated from trends observed over the 1981-1986 period, are much too low. In a similar manner, census figures for men over the age of 45 were significantly higher than those in the estimates.

In sum, many census figures appear higher than the estimates that were established on the basis of patterns from the 1981-1986 period. It seems reasonable to expect that they not reflect the rapid increase in common-law unions as experienced over the 1986-1991 period. However, census data correspond more closely with data from the GSS which apart from sampling problems, constitutes a reliable source of data.

## 2. 1991 Census data quality studies

Although the census attempts to enumerate every person residing in Canada on Census Day, results are never perfect. In order to determine the extent of census coverage errors, data quality studies are conducted. The reverse record check is used to measure undertoverage, that is, the number of persons missed in the census. The overcoverage study estimates the number of persons enumerated who should not have been enumerated and the number of persons enumerated more than once. The results of these two studies are combined to produce an estimate of net undercoverage, that is, undercoverage minus overcoverage.

A technical report on coverage in the 1991 Census is to be prepared, but since coverage errors are one of the main sources of errors in the age, sex and marital status variables, the main resulte are presented here.

### 2.1 Methodology for data quality studies

### 2.1.1 Reverse record check

Using sources not related to the 1991 Census, a sample of persons who should have been enumerated was taken from the following groups:

- persons enumerated in one of the ten provinces in the 1986 Census;
- persons born in the 1986-1991 intercensal period;
- persons who immigrated to Canada during the intercensal period;
- persons found not to have been enumerated in one of the ten provinces in the previous census;
- holders of student or employment authorizations or Minister's permits (or extensions to such permits), and refugee claimants;
- persons in the Yukon and Northwest Territories health insurance files.

Before the census, the most recent available address was ascertained for each person in the sample. Then, census documents were checked to determine whether or not the people in the sample were enumerated at those addresses. Persons not found were the subject of a field follow-up.
Tracing and searches made it possible to classify the selected persons according to the following categories: enumerated, missed, deceased, emigrated or residing abroad, and not found. The results were then weighted to produce estimates of the number of persons missed.

### 2.1.2 Overcoverage study

This study estimated the number of persons overenumerated in the 1991 Census, either because they were not part of the population covered by the census, or because they were enumerated more than once.

The study can be divided into four distinct components. First, samples were selected from records enumerated in the 1991 Census, among private households, institutional collective dwellings (hospitals, prisons, and so on), and non-institutional collective dwellings (hotels, residences, and so on). These households and dwellings were contacted in order to determine whether or not the people in these households or dwellings were part of the population covered and to obtain any address or addresses where these people might also have been enumerated. A check was then done to determine whether or not the persons in question had been included in the census documents for the new address(es) obtained.

The last component invoived an automated search of the census database in order to find "neighbouring" households containing persons with the same demographic characteristics (age and sex). A manual check of documents was then done for a subsample of matching households to determine whether the same persons had been enumerated in two households.

The results of all four components, weighted on the basis of the size of the population, were combined in order to obtain estimates of overcoverage.

### 2.2 Study results

Based on these studies, a net undercoverage rate of $3.21 \%$ was estimated for Canada as a whole (Table 6.14). However, undercoverage varies substantially depending on the age group. Age groups with higher propensities to mobility were also those with higher undercoverage rates. For example, the undercoverage rate for the $20-24$ age group was higher than the rate for the total population ( $7.46 \%$ ). The $25-34$ age group also had a high undercoverage rate ( $5.67 \%$ ). Net undercoverage in these age groups accounted for neariy $50 \%$ of total undercoverage.

The pattern of undercoverage by age is similar for both sexes, but the estimate of net undercoverage shows that the rate was higher for males than females, with rates of $3.73 \%$ and $2.71 \%$ respectively.

The studies revealed that underooverage rates were higher for single and divorced persons than for persons in the other marital status categories. The rates for single persons aged 15 years and over were $7.42 \%$ for men and $5.33 \%$ for women. Among the divorced population, males were much less likely to be enumerated than women, with an undercoverage rate of $7.69 \%$, compared to $2.04 \%$ for women (Table 6.15).

Table 6.14 Estimated Net Undercoverage Rates in 1991 Census, By Age Group and sex, Canada, 1991(1)

| A훈 <br> group | Both texes |  | Men |  | Womer |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rate | Standard enror | Rate | Standard error | Rate | Standard entor |
|  | percentige |  |  |  |  |  |
| Total | 3.21 | 0.14 | 3.73 | 0.17 | 2.71 | 0.19 |
| 0-4 | 3.29 | 0.51 | 2.47 | 0.61 | 4.13 | 0.78 |
| 5-14 | 2.19 | 0.29 | 2.03 | 0.36 | 2.37 | 0.40 |
| 15-19 | 3.37 | 0.47 | 3.23 | 0.68 | 3.52 | 0.60 |
| 20-24 | 7.46 | 0.59 | 8.29 | 0.87 | 6.61 | 0.77 |
| 25-34 | 5.67 | 0.34 | 7.39 | 0.57 | 3.92 | 0.36 |
| 35-44 | 2.69 | 0.32 | 3.61 | 0.44 | 1.75 | 0.36 |
| 45-54 | 1.46 | 0.29 | 1.63 | 0.46 | 1.29 | 0.43 |
| 55.64 | 1.48 | 0.28 | 1.69 | 0.46 | 1.28 | 0.34 |
| 65. | 1.24 | 0.30 | 1.17 | 0.50 | 1.29 | 0.38 |

(l) Preliminary estimates.

Table 6.15 Estimated Net Undercoverage Rates in 1991 Census, by Legal Marital Status and Sex, Canada, 1991(1)

| Legal marital stantus | Both sexes |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rate | Standond efror | Rate | Standard errpr | Rate | Stapdand etror |
| percentage |  |  |  |  |  |  |
| Tocal | 3.21 | 0.14 | 3.73 | 0.17 | 2.71 | 0.19 |
| Married or separated | 1.57 | 0.12 | 1.78 | 0.20 | 1.37 | 0.17 |
| Diworced | 4.57 | 0.68 | 7.69 | 1.12 | 2.04 | 0.82 |
| Whdowed | 2.74 | 0.48 | 4.13 | 1.30 | 2.44 | 0.50 |
| Nover married (single) | 4.71 | 0.25 | 5.14 | 0.32 | 4.22 | 0.32 |
| Under 15 years of age | 2.56 | 0.26 | 2.17 | 0.31 | 2.97 | 0.38 |
| 1\$ years of age and over | 6.47 | 0.37 | 7.42 | 0.46 | 5.33 | 0.51 |

(1) Preliminary estimates.

Moreover, the evaluation studies relating to net undercoverage indicate that, as was the case in 1986, undercoverage in Ontario in 1991 was slightly higher than the mean for the country. However, results by age, sex and marital status for the provinces and territories have very high levels of sampling error. It is therefore not possible to determine to what extent the undercoverage pattern for these variables differs regionally.

## 3. Summary of $\mathbf{1 9 9 1}$ Census results

Section VI has provided users with an explanation of the stages involved in the evaluation of data on age, sex, marital status and common-law status. To complete this evaluation, a brief demographic profile of the Canadian population based on 1991 Census results is presented.

Between 1986 and 1991, Canada's population increased by nearly two million ( $7.9 \%$ ), from 25.3 million to 27.3 milHon. This involved the first increase in the intercensal rate of population growth since 1951-1956. Reasons for this increase include a large growth in the number of immigrants, the inclusion of non-permanent residents in the 1991 Census for the first time and a small increase in fertility.
The greatest population growth was observed in British Columbla ( $13.8 \%$ ), Ontario ( $10.8 \%$ ) and Alberta ( $7.6 \%$ ), which has been favoured by migratory exchanges. As ilhustrated in Table 6.16, the population of the Yukon Territory and the Northwest Territories also lincreased significantly ( $\mathbf{1 8 . 3} \%$ and $\mathbf{1 0 . 4 \%}$ respectively), as associated with a higher level of fertility in relation to the provinces.
Canada's population continues to age, a trend first observed in the early 1970s. Although the number of persons under 15 years of age increased from 5.5 million to 5.7 million between 1981 and 1991, its proportion in terms of total population dropped from $\mathbf{2 2 . 5 \%}$ to $\mathbf{2 0 . 9 \%}$ (Table 6.17).
The population in older age groups grew faster than the population as a whole. The number of persons 65 years of age and older grew from 2.4 million to 3.2 million between 1981 and 1991, while their proportion increased from $9.7 \%$ to $11.6 \%$. The number of persons 75 years of age and over also increased significantly: from 883,000 to $1,275,000$ (or by $44.4 \%$ ). Similarly, the number of persons 85 years of age and over grew rapidly, from 194,000 in 1981 to 283,000 in 1991 (i.e. an increase of $45.9 \%$ ).

The ageing of the popalation is to a large extent due to the drop in births first recorded in the mid-sixties. Increases in life expectancy are less important to this ageing process.

Table 6.16 Poputation and Growth Rates, Canada, Provinces and Territories, 1986 and 1991

6.17 Population Distribution by Major Age Group, Canadia, 1971, 1981 and 1991

| Age group | 1971 | 1981 | 1991 | 1971 | 1981 | 1991 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in thourends |  |  | percentage |  |  |
| Tocal popalation | 21,568 | 24,343 | 27,297 | 100.0 | 100.0 | 100.0 |
| 0-14 | 6,381 | 5,481 | 5,693 | 29.6 | 22.5 | 20.9 |
| 15-64 | 13,443 | 16,501 | 18.434 | 62.3 | 67.8 | 67.5 |
| $65_{+}$ | 1,744 | 2,361 | 3,170 | 8.1 | 9.7 | 11.6 |
| 75+ | 667 | 883 | 1,275 | 3.1 | 3.6 | 4.7 |
| 85. | 137 | 194 | 283 | 0.6 | 0.3 | 1.0 |

With Canada's population steadily ageing, changes are also observed in this country's median age. As shown in Table 6.18, Canada recorded its highest median age ever in 1991 . Half of all Canadians were over 33.5 years of age in 1991 . The median age was 29.6 in 1981.

Populations of some provinces are ageing faster than others. British Columbia had the highest median age (34.7 years), followed by Quebec ( 34.2 years) and Ontario ( 33.6 years). The lowest median ages were in the Northwest Territories ( 24.8 years), Newfoundland ( 30.8 years) and the Yukon Territory ( 31.0 years).

[^13]Table 6.18 Median Age of Population, Canada, Provinces and Territories, 1976, 1981, 1986 and 1991

| Provincelteritiony | 1976 | 1981 |  | 1986 | 1991 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Canada | 27.8 | 29.6 |  | 31.6 | 33.5 |
| Newfoundland | 22.6 | 25.2 |  | 27.9 | 30.8 |
| Prince Edward Island | 26.6 | 28.18 |  | 30.6 | 32.8 |
| Nova Scotia | 27.1 | 79.3 |  | 31.2 | 33.4 |
| New Brunswick | 25.7 | 28.1 |  | 30.5 | 33.2 |
| Quebec | 27.7 | 29.7 |  | 32.0 | 34.2 |
| Ontario | 28.6 | 30.6 |  | 32.3 | 33.6 |
| Manitoba | 28.0 | 29.9 |  | 31.4 | 33.0 |
| Saskatchewan | 27.6 | 28.7 |  | 30.1 | 32.6 |
| Alberta | 26.1 | 26.9 |  | 29.2 | 31.3 |
| British Columbla | 29.1 | 30.9 |  | 33.1 | 34.7 |
| Yukon Tertitory | 24.9 | 26.6 |  | 28.9 | 31.0 |
| Northwest Territories | 20.6 | 22.0 |  | 23.7 | 24.8 |

Women consistently outnumbered men among persons aged 65 and over. The ratio of 138 women to every 100 men in this age group did not change between 1986 and 1991. Arnong the population 85 years of age and over, women continued to outnumber men at least 2 to 1 (Figure 2.1).

Figure 2.1 Population 85 Years of Age and Over, Canada, 1961 to 1991


In turning to Canada's population under 24 years of age, there has been somewhat of a reversal in previous trends over recent years. The $0-4$ age group increased by $5.3 \%$ between 1986 and 1991 to 1.9 million (Table 6.19). After declining over several intercensal periods, the population aged 5 to 14 years increased by $5.7 \%$ between 1986 and 1991 to 3.8 million. The young population between the ages of 15 and 24 continued to decline, while the decline between 1986 and 1991 was less than that recorded over the previous intercensal period ( $8.3 \%$ versus $10.3 \%$ ).

The number of persons between the ages of 25 and 44 grew from 8.2 million to 9.2 million between 1986 and 1991 (an increase of $13.1 \%$ ). This group includes the baby-boom generation, born in the years following the Second World War. As for the population between the ages of 45 and 64 , it grew from 4.9 million in 1986 to 5.4 million in 1991 (an increase of $10.1 \%$ ).

Table 6.19 Population and Growth Rates, by Age Group, Canada, 1981, 1986 and 1991

| Age 2roup | Number |  |  | Rate |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1981 | 1986 | 1991 | 1986 | 1991 |
|  | In thousands |  |  | percentage |  |
| Total | 24,343 | 25,309 | 27,297 | 4.0 | 7.4 |
| 0.4 | 1.783 | 1,810 | 1,907 | 1.5 | \$.3 |
| 5-14 | 3,698 | 3,582 | 3,786 | -3.1 | 5.7 |
| 15-24 | 4,659 | 4,178 | 3.831 | +10.3 | 8.3 |
| 25-44 | 7.184 | 8,168 | 9.238 | 13.7 | 13.1 |
| 45-64 | 4.658 | 4,874 | 5,366 | 4.6 | 10.1 |
| 65+ | 2,361 | 2,698 | \$,170 | 14.3 | 17.5 |

The proportion of young adults remaining single has increased. Nearly $65 \%$ of women between 20 and 24 years of age were single in 1991, compared to $60 \%$ in 1986(Table 6.20). The proportion of men between 20 and 24 years of age who had never married also increased ( $79 \%$ to $82 \%$ ). Similar patterns were observed for men and women in the 25-29 and 30-34 age groups.
The proportion of divorced persons (excluding those who have remarried or entered a common-law union) increased from $3.5 \%$ in 1986 to $4.2 \%$ in 1991 . This represented a growth of the number of divorced persons of $32 \%$. This increase was slightly lower, however, than that recorded between 1981 and 1986, when the number of divorced persons rose by $\mathbf{3 8 \%}$.

Figure 2.2 Population Distribution by Age and Sex, Canada, 1991


[^14]| Age <br> growf <br> and sex | 1986 |  |  |  |  |  | 1991 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tplat | Single | Mmrind | Sepperated | Whowed | Divoreed | Tofal | Singin | Married | Separated | Wdowed | Dtroweed |
|  | pencentage |  |  |  |  |  |  |  |  |  |  |  |
| Men mat |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | t09.0 | . 30.7 | 62.0 | 2.3 | 2.2 | 2.8 | 100.0 | 29.8 | \$2.6 | 2.0 | 2.1 | 3.4 |
| 15-19 | 100.0 | 98.7 | 1.1 | 0.1 | 0.0 | 0.0 | 100.0 | 98.7 | 1.1 | 0.1 | 0.0 | 0.0 |
| 20-24 | 100.0 | 79.2 | 20.0 | - 0.6 | 0.0 | 0.2 | 100.0 | 81.6 | 17.7 | 0.4 | 0.1 | 0.2 |
| 25-29 | 100.0 | 39.6 | \$6.9 | 2.1 | 0.1 | 1.3 | 100.0 | 45.7 | 51.5 | 1.5 | 0.0 | 1.3 |
| 30-34 | 100.0 | 19.6 | 74.2 | 3.0 | 0.1 | 3.1 | 100.0 | 24.2 | 70.2 | 2.4 | 0.1 | 3.1 |
| 35-39 | 100.0 | 11.4 | 80.6 | 3.3 | 0.2 | 4.4 | 100.0 | 14.8 | 77.3 | 2.9 | 0.2 | 4,8 |
| 40-44. | 100.0 | 8.3 | B2.7 | 3.5 | 0.4 | 5.2 | 100.0 | 9.8 | 60.8 | 3.1 | 0.3 | 5.9 |
| 45-49 | 100.0 | 7.2 | 83.4 | 3.5 | 0.7 | 5.3 | 100.0 | 7.6 | 82.4 | 3.0 | 0.6 | 6.4 |
| 50-54 | 100.0 | 7.1 | 63.2 | 3.2 | 1.4 | 5.1 | 1100.0 | 6.7 | 83.3 | 2.8 | 1.1 | 6.1 |
| 55-59 | 100.0 | 7.4 | 82.5 | 3.0 | 2.5 | 4.6 | 100.0 | 6.6 | 83.3 | 2.5 | 2.0 | 5.5 |
| 60-84 | 100.0 | 7.4 | 82.1 | 2.5 | 4.1 | 3.7 | 100.0 | 7.0 | 82.1 | 2.4 | 3.7 | 4.7 |
| 65-69 | 100.0 | 7.0 | 81.1 | 2.4 | 6.5 | 2.9 | 100.0 | 6.9 | 80.9 | 2.2 | 6.2 | 3.8 |
| 70-74 | 100.0 | 7.4 | 71.7 | 2.3 | 10.3 | 2.3 | 100.0 | 6.5 | 78.8 | 2.0 | 9.8 | 2.8 |
| 75-79 | 100.0 | 7.8 | 72.0 | 2.1 | 16.3 | 1.8 | 100.0 | 6.8 | 73.8 | 1.9 | 15.3 | 2.2 |
| 80-94 | 100.0 | 8.6 | 62.8 | 1.8 | 25.3 | 1.4 | 100.0 | 7.3 | 65.4 | 1.9 | 23.8 | 1.7 |
| 85 + | 100.0 | 8.6 | 46.0 | 1.5 | 42.9 | 0.9 | 100.0 | 8.7 | 49.1 | 1.8 | 39.2 | 1.2 . |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 100.0 | 23.9 | 58.9 | 2.9 | 10.2 | 4.1 | 100.0 | 23.2 | 59.2 | 2.6 | 10.1 | 4.9 |
| 15-19 | 100.0 | 95.3 | 4.4 | 0.1 | 0.1 | 0.0 | 100.0 | \$5.6 | 4.2 | 4.1 | 0.1 | 0.0 |
| 20-24 | 109.0 | 60.2 | 37.6 | 1.5 | 0.1 | 0.6 | 100.0 | 64.6 | 33.6 | 1.2 | 0.1 | 0.5 |
| 25-29 | 100.0 | 25.7 | 68.0 | 3.4 | 0.2 | 2.7 | 100.0 | 29.7 | 65.0 | 2.7 | 0.2 | 2.4 |
| 30-34 | 100.0 | 13.3 | 76.8 | 4.1 | 4.5 | 5.2 | 100.0 | 16.3 | 75.1 | 3.5 | 0.4 | 4.7 |
| 35-39 | 100.0 | 8.6 | 79.0 | 4.4 | 0.9 | 7.0 | 100.0 | 10.7 | 77.5 | 3.8 | 0.7 | 7.2 |
| 40-44 | 100.0 | 6.7 | 79.1 | 4.5 | 1.8 | 7.9 | 100.0 | 7.9 | 77.8 | 3.9 | 1.4 | 9.0 |
| 45-49 | 100.0 | 5.8 | 79.1 | 4.0 | 3.5 | 7.5 | 100.0 | 6.4 | 77.5 | 3.7 | 2.8 | 9.6 |
| 50-54 | 100.0 | 5.6 | 77.6 | - 3.6 | 6.6 | 6.7 | 100.0 | 5.6 | 76.8 | 3.3 | 5.5 | 8.8 |
| 55-59 | 100.0 | 5.9 | 73.6 | 3.1 | 11.8 | 5.6 | 100.0 | 5.5 | 73.8 | 2.9 | 10.1 | 7.6 |
| 60-64 | 100.0 | 6.2 | 67.4 | 2.5 | 19.6 | 4.4 | 100.0 | 5.8 | 67.8 | 2.5 | 17.7 | 6.2 |
| 65-69 | 100.0 | 7.0 | 57.4 | 2.2 | 30.1 | 3.3 | 100.0 | 6.1 | 59.2 | 2.1 | 37.9 | 4.7 |
| 70-74 | 100.0 | 8.4 | 45.1 | 1.7 | 42.5 | 2.3 | 100.0 | 7.0 | 47.4 | 1.8 | 40.6 | 3.2 |
| 75-79 | 100.0 | 9.6 | 31.8 | 1.3 | 55.8 | 1.6 | 100.4 | 8.4 | 34.0 | 1.3 | 54.1 | 22 |
| $80-84$ | 100.6 | 10.2 | 19.6 | 0.8 | 68.4 | 1.0 | 100.0 | 9.6 | 21.2 | 0.9 | 66.9 | 1.4 |
| E5 ${ }^{5}$ | 100.0 | 10.3 | 自. 1 | 0.4 | 80.7 | 0.5 | 300.0 | 10.4 | 9.4 | 0.6 | $7{ }^{\text {7 }}$. 8 | 0.8 |

The 1991 Census results also reveal that 1.5 million Canadians were living in common-law unions. This represents an increase of nearly $50 \%$ over 1986. The number of persons in this group had increased by $37 \%$ berween 1981 and 1986.

This propensity to live in common-law unions is primarily a characteristic of younger adults. In fact, $60 \%$ of persons tiving in common-law unions were under 35 years of age, with a very large proportion concentrated in the 25-29 age group ( $23 \%$ ) (Table 6.21). Most persons living with a common-law partner were single ( $64 \%$ ), followed by persons who had previously experienced a divorce ( $26 \%$ ), a separation ( $7 \%$ ) or a death of a spouse ( $3 \%$ ) (Table 6.22).

Table 6.21 Distribution of Persons Living in Common-law Unions, by Age Gronp and Sex, Canada, 1991

| Age <br>  | Number |  |  |  | Percentaga |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yotal | Meat | Women | Total | Men | Wemen |
| Total | 1,451,905 | 725,935 | 725,950 | 100.0 | 100.0 | 100.0 |
| 15-19 | 32,705 | 6,970 | 26,135 | 2.3 | 0.9 | 3.6 |
| 20.24 | 227,685 | 89,200 | 138,485 | 15.7 | 12.3 | 19.1 |
| 25-29 | 332,900 | 163,840 | 169.060 | 22.9 | 22.6 | 23.3 |
| 30-34 | 271,305 | 140,410 | 130,900 | 18.7 | 19.3 | 18.0 |
| 35.39 | 193,290 | 101,310 | 91,985 | 13.3 | 14.0 | 12.7 |
| 40-44 | 142,225 | 76,740 | 65,490 | 9.8 | 10.6 | 9.0 |
| 45-49 | 95,695 | 53,570 | 42,130 | 6.6 | 7.4 | 5.8 |
| 50.54 | 58,470 | 34,155 | 24,310 | 4.0 | 4.7 | 3.3 |
| 55-59 | 38.700 | 24,020 | 14,680 | 2.7 | 3.3 | 2.0 |
| 60-64 | 26,045 | 16,330 | 9.715 | 1.8 | 2.2 | 1.3 |
| 65+ | 32,865 | 19,820 | 13.065 | 2.3 | 2.7 | 1.8 |

Table 6.22 Distribution of Persons Living in Common-iow Unions, by Marital Status and Sex, Canada, 1991

| Marital status | Number |  |  | Percentage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tocal | Men | Women | Total | Men | Womer |
| Total | 1,451,8\%5 | 723,950 | 725,945 | 100.0 | 100.0 | 100.0 |
| Single | 923,400 | 457,185 | 466,215 | 63.6 | 63.0 | 64.2 |
| Separated | 102,430 | 57,260 | 45,170 | 7.1 | 7.9 | 6.2 |
| Widowed | 49,810 | 17.480 | 32,130 | 3.4 | 2.4 | 4.4 |
| Diworced | 376,455 | 194,025 | 182,430 | 25.9 | 26.7 | 25.1 |

## VII. Historical Comparability

Changes in various census operations and especially in the wording of questions may affect the historical comparability of data.
Generally speaking. data on age, sex and marital status from the 1991 Census are comparable with data from previous censuses. However, slight changes were made to the wording on the 1991 Census questionnaires (as was the case with previous censuses) and to the instructions to respondents on marital status and common-law status. These changes are described below. In addition, certain changes to the 1991 Census coverage, such as the inclusion of non-permanent residents, may affect the patterns observed on sex, marital status and common-law status.

## 1. Age

Up to and including 1966, census questionnaines asked respondents to give their age as of their last birthday. Since 1971, respondents have been asked to give their date of birth, and if the exact date of birth is not known, to give an estimate. It has been established that a question on the date of birth, rather than age, yields more accurate responses.
In 1961, data published for single years of age were graduated and smoothed within each five-year age group to counteract the "pull" toward rounded numbers, that is, the tendency of respondents to "round off" their age. In 1966 and 1971, this was not done, and the published tables represent the data as reported.
In 1976 and 1971, respondents were asked to indicate their birth date as corresponding to one of two broad categories, that is, January to May or June to December. In subsequent censuses, respondents were asked to give their exact date of birth by entering the day, month and year. This latter change did not affect age data.

## 2. Marital status

The different categories of marital status in the 1991 Census were defined in Section II. Changes have been made to these categories and to instructions to respondents in previous censuses, affecting the historical comparability of data.

The most significant change to this question was made in the 1991 Census. In contrast to previous censuses, respondents were asked to indicate their legal marital status. This led to problems in comparing data relating to persons in common-law unions with that from other censuses since persons in common-law untons were included in the "Now married (excluding separated)" category in the 1981 and 1986 censuses.
The main advantage to the change in 1991 is the improved quality of data on the number of persons in common-law unions. This also allows for data on the legal marital status of persons living in common-law unions.
It is possible. however, to attempt to maintain the historical comparability of data on marital status by using a derived variable: historical marital status. This variable is obtained by including persons living in common-law unions, regardless of their marital status, in the "Legally married (and not separated)" category (in the same way as in previous censuses).
Changes made to the wording of this question (along with the corresponding instructions given to persons in common-law unions in censuses prior to 1991) may have affected the historical comparability of marital status data. These changes can be further discussed below.

In 1966 and earlier, there were only four categories under marital status: "Single", "Married", "Divorced" and "Widowed". Separated persons were classified as "Married". Since 1971, separated persons have been included in the "Separated" category ("Legally married and separated" in 1991). Problems with historical comparability therefore seem quite obvious prior to 1971.

Table 7.1 Marital Status Categories in Census Questionnaires, 1961 to 1991

| 1991 | 1986 and 1981 | 1976 and 1971 | 1966 and 1961 |
| :---: | :---: | :---: | :---: |
| Legally married (and not separated) | Now married (excluding separated) | Now married | Martied <br> (inchuding separated) |
| Legrlly married and separated | Separated | Separated | - |
| Diverced | Diverced | Divorced | Divoriced |
| Widowed | Widowed | Widowed | Widowed |
| Never married (single) | Never married (single) | Never marrted (single) | Never married (singlo) |

In 1981, the census questionnaire contained specific instructions to respondents in common-law unions on how to respond to the question on marital status. Respondents were asked to mark the "Now married (excluding separated)" box. This procedure, however, led to some confusion in distinguishing legal marriage from common-law unions. Moreover, a separated or divorced person currently in a common-law type of relationship met both the common-law criterion (in other words, classified as "Now married (excluding separated)") and the "Separated" or "Divarced" criterion.
In 1986, irrespective of whether or not a respondent was living in a common-law union, persons were asked to mark either "Separated", "Divorced", "Widowed" or "Never married (single)" on the marital status question. Even though some respondents living in common-law unions erroneously marked "Now married (excluding separated)", this method moved beyond much of the ambiguity which occurred in 1981 (Peters, 1987). On theother hand, this procedure did not fully reflect the respondents' marital status at the time of the census. Instructing common-law respondents to answer in this fashion had the effect of masking an important fact about their conjugal status, particularly among that segment of the population which identified itself as living "alone" ("Separated", "Divorced", "Widowed" or "Never married (single)"). A significant proportion were, in reality, living in couples.

Table 7.2 Inctructions to Respondents Living in Common-law Unions Regarding their Reported Marital Status, 1971 to 1991

| Censas | Instuctions |
| :---: | :---: |
| 1991 | If this person is living in a common-law relationship, choose the category in Question 5 which best describes this person's legal marital status. |
| 1986 | Persons in a coumonhaw type of relationghip should mark ocie of the boxes "Separated", "Divorsed". "Widowed" or "Never married (single)", |
| 1981 | Couples living in a common-law type of amangenent are considered as "Now married (exchuding separated)", regardless of their legal marital status. |
| 1976 | "Now married" includes persons living in a common-law type of relationslutp. |
| 1971 | Persons tiving in a comunondaw union should mark. "Now married". |

## 3. Common-law unions

In the 1981 and 1986 Censuses, data on the number of persons living in common-law unions were derived from the question on the relationship between the reference person and other bousehold members. In the 1991 Census, a question relating specifically to common-law status was introduced. Respondents were asked to answer yes or no to a question asking whether they were currently living with a common-law partner. Data on the number of persons living in common-law unions were derived from responses to this question and the question on the relationship between the reference person and other household members. It should be noted that the retrieval data base contains no direct variable for this question. Retrievals are made in the same way as in 1986.

[^15]As indicated in previous sections, comparisons with GSS data would seem to indicate that the 1991 Census data on common-law status is relatively accurate as a result of the introduction of this question. Furthermore, a comparison in the incidence of common-law unions relative to previous censuses, suggests that many common-law unions went previously unreported in 1981 and 1986.

## 4. Non-permanent residents

The 1991 Census of population was the first census to include both permanent and non-permanent residents of Canada. Non-permanent residents include persons who hold student or employment authorizations or a Minister's permit, and refugee claimants.

Previous censuses enumerated only permanent residents of Canada (the only exception to this was in 1941). Nonpermanent residents were considered foreign residents and were not enumerated.

Total population counts as well as the distribution by age, sex and marital status will be affected by the change in the 1991 Census universe. Until immigration data are released, it will not be possible to know the extent to which differences in counts are due to the inclusion of non-permanent residents or other factors.
According to information gathered from administrative data sources, this segment of the population is relatively young since a large proportion of non-permanent residents are young adults. Their distribution by marital status is also different from that for the Canadian population as a whole. Because of the large number of young adults in this group, the proportion of single persons is high. These considerations suggest that the population distribution by age, sex and marital status will be affected by the inclusion of non-permanent residents, especially in large urban centres where there areconsiderable concentrations of non-permanent residents. (such as major metropolitan areas in Ontario; Ouebec and British Columbia).

## 5. Incompletely enumerated Indian reserves and settlements

In the 1986 and 1991 Censuses, enumeration was not permitted on some Indian reserves and settlements, was interrupted before it could be completed on others, or was enumerated yet with an inadequate level of quality.

Data for 1991 are therefore not available for incompletely enumerated Indian reserves and settlements, with tabulations excluding this data. Explanatory notes accompany data for geographtc areas which encompass one or more of these reserves and/or settlements. Hecause of the missing data, users are cautioned that for the affected areas, selected comparisons (e.g. of growth rates by age group and marital status between 1986 and 1991) are not exact. While for larger geographic areas (Canada, provinces, census metropolitan areas and census agglomerations), the impact of this missing data is very small, it can be significant for smaller areas (where the Indian reserves and/or settements can account for a high proportion of the population).
A list of these reserves and settlements along with population counts (where available) are provided in the appropriate census products.

## VIII. Products and Services

This section describes the different 1991 Census products and services which provide data on age, sex, marital status and common-law status. Users of census data have very different requirements in terms of the subjects covered, geographical breakdowns and media used (that is, paper, magnetic tape, diskette and CD-ROM products). The development of various products made it possible to ensure that users' most common needs were taken into actount in designing products and services. A wide variety of publications and machine-readable files are therefore available, and the needs of many users are met through special tabulations.

Products and services are divided into five categories: data products, analytical products, reference products, tabulation services and workshops and seminars.

## Data products

## 1. The Nation series

These publications contain various tables on the population by age, sex and marital status for Canada, the provinces and territories and the census metropolitan areas. Data by age group for previous censuses are also included. In addition, data on persons living in common-law unions are presented by age group, sex and legal marital status for Canada, the provinces and territories and the census metropolitan areas.
Age, sex and manital status (Cat. No. 93-310).

## 2. Dimensjons series

This series presents statistical information on selected themes of considerable public interest. The tables in these publications include several population characteristics associated with these themes. Historical trends from 1971 to 1991 are shown, for Canada, the provinces and territories. Tisles relating to the age, sex and marital status variables are:

- Population Growth and Distribution, 1971-1991 (Cat. No. 94-302);
- Women in Canada, 1971-1991 (Cat. No. 94-303);
- Children and Youth in Canada, 1971-1991 (Cat. No. 94-304):
- Canada's Seniors, 1971-1991 (Cat. No. 94-305).

For these products, selected subprovincial geographical detall not provided in the printed product will be available in an electronic format.

## 3. Basic Summary Tabulations $\mathbf{- 1 0 0 \%}$ Data

Basic Summary Tabulations contain data on the population and on persons living in common-law unions by age, sex and legal marital status for Canada, the provinces and territories, census metropolitan areas, census agglomerations, federal electoral districts, enumeration areas and census divisions and subdivisions. Data are on magnetic tape.

## 4. Area Profile series

This series gives a statistical overview or profile of geographic areas. A wide range of census variables are covered. Part A of the series contains data on age, sex and marital status.

Data in this series are available for the following geographic areas: federal electoral districts (FEDs), census metropolitan areas and census agglomerations (CMAs and CAs), urban and rural areas, census divisions and subdivisions (CDs and CSDs), census tracts (CTs), enumeration areas (EAs) and urban forward sortation areas (FSAs).

[^16]This series is also available on compact disc read-only memory (CD-ROM).

## Analytical products

## 1. Focus on Canada series

This series provides analytical, non-technical studies, with a large number of tables and charts which illustrate social, economic and demographic characteristics of the Canadian population. Four of these publications contain analysis of dernographic variables.

## 2. Census Highlights

This series provides the media with articles of general interest on current social issues. Results of the 1991 Census are illustrated through short articles of a non-technical nature. These articles include diagrams, charts and tables. Twelve Census Highlights deal with selected demographic topics.

## Reference products

## 1. 1991 Census Dictionary (Cat. No. 92-301E)

Provides detailed information on all census concepts, vartables and geographic terms. For the first time, the dictionary is also available on diskette.

## 2. 1991 Census Catalogue (Cat. No. 92-302E)

Gives a full description of products and services available, tncluding information on release dates, prices, media, table titles and catalogue numbers.

## 3. 1991 Census Handbook (Cat. No. 92-305E)

Provides a non-technical overview of the census. It describes the data collection and processing activities.

## 4. Census Tabulation Guide

Provides detail on the content and levels of geography of all available standard tabulations. It is available only on IBM compatible personal computer diskettes that operate on MS DOS.

## Tabulation services

Tabulation services provide products and services designed to meet users' needs in a more detailed or specific form than is available from standard products. The flexibility built into these services permit many demanding and complex data requests. Clients can therefore obtain products aimed at meeting specific data needs.
The services offer varying degrees of flexibility in terms of content, geographic level and medium.

## Workshops and seminars

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

## IX. Conclusion

As the data collection and processing operations were completed, the edit and imputation process served to identify invalid, missing or conficting responses. It has been established that close to $98 \%$ of the age, sex and marital status data have been in no way modified. Invalid or conflicting responses accounted for only a very small proportion of rejected cases disclosed through the edit procedure. More than $90 \%$ of all values imputed involved missing entries. The "DERIVE" operation has also determined that $8 \%$ of the data collected on the number of persons living in com-mon-law unions was inconsistent with responses to the question on the relationship between household members.

Data on year and month of birth, age, sex, marital status and the number of persons living in common-law unions have been compared with data from other sources. By and large, the comparisons revealed few differences between census data and the other sources consulted. The minor discrepancies noted could be explained by either errors inherent in the demographic estimates (as for example, when particularly small numbers are involved) or by survey sampling errors. Although the census reported a slightly lower number of persons living in common-law unions than was the case with the GSS, this count was much higher than that obtained from demographic estimates. The latter, which extrapolated from trends recorded in previous censuses, likely underestimates the growth in the number of common-law unions that occurred between 1986 and 1991.

The second part of this report's data evaluation involved a sudy of the coverage of age, sex and marital status data. Based on the reverse record check (RRC) which indicates the undercoverage rate and an accompaning study of overcoverage, a net undercoverage rate of $3.21 \%$ has been established for Canada as a whole. Although the pattern of undercoverage by age was similar for men and women, the undercoverage study indicated a higher undercoverage rate for men. Persons between the ages of 15 and 34 were also more likely to have been missed relative to the population as a whole. More specifically, undercoverage in these age groups accounted for nearly $50 \%$ of all persons that were erroneously missed in the 1991 Census. Moreover, these studies revealed that the undercoverage rate was higher for single and divorced persons than for Canadians in the other marital status categories.
The evaluation concluded with a brief description of 1991 Census results with the variables in question. Highlights included an increase of nearly $8 \%$ for the population as a whole between 1986 and 1991. Canada's population has increased to 27.3 million.
Canada's population has also continued to age. The percentage of the population under 15 years dropped from $23 \%$ to $21 \%$ between 1981 and 1991, while the proportion aged 65 and over increased rapidly from $9.7 \%$ to $11.6 \%$ (up to 3.2 million in 1991). The number of persons 75 years of age and over and 85 years of age and over also increased very rapidly, both in the order of $69 \%$. In 1991, Canada recorded its highest median age ever - 33.5 years.
Ageing was more rapid in some provinces. The median age was 34.7 in British Columbia, 34.2 in Quebec, and 33.6 years in Ontario.

Women continue to oumumber men in the population aged 65 and over. Among the population 85 years of age and over, women outnumbered men by at least 2 to 1 .
After declining over several intercensal periods, the population aged 5 to 14 increased by $5.7 \%$ between 1986 and 1991. The population between the ages of 15 and 24 continued to decline, but the decline between 1986 and 1991 was less than previously recorded.
The number of persons aged 25 to 44 ("baby-boomers") grew by $13.1 \%$, while the population between 45 and 64 increased by $10.1 \%$.
The proportion of young adults remaining single increased. The number of divorced persons increased by $31.7 \%$, a smaller increase than recorded for the 1981-1986 period ( $38.1 \%$ ).
According to the 1991 Census, 1.5 million Canadians were living in common-law unions, having climbed by $49.1 \%$ over 1986. Over $60 \%$ of these persons were under the age of 35 . With respect to the legal marital status of these persons, $64 \%$ of those living in common-law unions were single, while $26 \%$ were divorced.

[^17]
## Endnotes

1. Coverage errors, non-response errors, response errors and processing errors may also affect the quality of age, sex, and marital status data. A description of these errors is provided in Statistics Canada. Age, sex and marital status, Ottawa: Supply and Services Canada, 1991. 1991 Census of Canada. No. 93.310 in catalogue (pp. 217-219).
2. Data by day of birth were not subject to any particular evaluation since they have little impact on determination of age.
3. Population estimates avalable at the time of the data evaluation did not include non-permanent residents.
4. Although the evaluation was done by single year of age, the presentation here is limited to five-year groups.
5. Survey results are not available for the Territories.
6. A change in instructions in 1911 and 1921 resulted in "separated" persons being reported as "divorced".

## Appendix

## 1991 edit rules and auxiliary constraints relating to age, sex, marital status and commonlaw status

The edit rules set out the conditions whereby a questionnaire is rejected. When a questionnaire is rejected, imputation becomes necessary. In 1991, edit failure relating to age, sex, marital status and common-law status oceurred under the following conditions:
a) Within-person edit rules

Edit failure occurred if:
(1) any of the pertinent variables (sex, decade, year or month of birth, marital status) were blank;
(2) any of the pertinent variables (sex, decade, year or month of birth, marital status) were invalid (invalid value):
(3) a person coded as spouse was also reported as not being "Legally married (and not separated)";
(4) a person whose marital status was reported as "Never married (single)" was also coded as a father, mother, father-in-law, mother-in-law, son-in-law or daughter-in-law;
(5) a person reported as having been born after June 3, 1976, (i.e. as being younger than 15 years of age) was also reported as having a relationship to Person 1 which implied being an adult (e.g., mother-in-law);
(6) a person reported as having been born after June 3, 1976 was also reported as other than "Never married (single)";
(7) Person 1 was reported as having been born after June 3, 1976;
(8) a person was reported as having been born after June 3, 1991;
(9) a person reported as being a father or mother (or father-in-law or mother-in-law) was also reported as having been bom after June 3, 1961;
(10) a person reported as living with a common-law partner was also reported as "Legally married (and not separated)".

## b) Between-person edit rules

Edit fajlure occurred if:
(1) Person 1 and a person reported as hisher spouse were both reconded as being of the same sex;
(2) two persons reported as father and mother (or father-in-law and motherin-law) were also reported as being of the same sex;
(3) Person 1 was reported as not "Legally married (and not separated)", but another person was reported as his/her spouse;
(4) Person 1 was reported as "Never married (single)" and another person was reported as a "Never married" brotherin-law or sister-in-law;
(5) two persons were reported as father and mother (or father-in-law, mother-in-law) and one or both were reported as not married;
(6) . Person I was reported as "Never married (single)" and another person was reported as father, mother, father-in-law or mother-in-law;

[^18](7) the decade of birth reported for a son or daughter, and Jikewise a grandson or granddaughter, was the same as that reported for Person 1 or his/her spouse;
(8) the decade of bitth reported for a son or daughter preceded 188, or that reported for a grandson or granddaughter preceded 189;
(9) the decade of birth reported for a father or mother was the same as, or jater than, that reported for Person 1;
(10) the decade of birth reported for a father-in-law or mother-in-law was the same as, or later than, that reported for the spouse of Person 1.

## c) Auxdilary constraints

(1) Imputation of a person's sex by matching his/her decade of birth, marital status and relationship to Person 1.
(2) Imputation of a person's marital status by matching hisher decade of birth, year of birth, sex and relationship to Person 1.
(3) Imputation of decade of Birth for Person 1 by matching hisfher marital status and sex.
(4) Imputation of decade of birth for a person other than Person 1 by matching hisher relationship to Person 1, marital status and sex.
(5) Imputation of a person's year of birth by matching hisfher relationship to Person 1, decade of birth and marital status.

## APPENDIX TABLES

Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Age group | 1\%\%1 Censuis |  |  | Estimates |  |  | Discrepancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Total | Mien | Wormen | Total | Wen | Women | Total |
| Nowfoundland |  |  |  |  |  |  |  |  |  |
| Total | 283,840 | 284,635 | 568,475 | 286,300 | 287,900 | 574,200 | -0.9 | -1.1 | -1.0 |
| (1)4 | 18,950 | 18,290 | 37,240 | 19,600 | 18,800 | 36,400 | -3.4 | -2.8 | -3.] |
| 5-9 | 21,995 | 21,115 | 43,110 | 22,300 | 21,600 | 43,900 | -1.5 | -2.2 | -1.9 |
| 10-14 | 24,220 | 23,355 | 47,575 | 25,000 | 23,900 | 46,900 | -3.0 | -2.1 | -2.6 |
| 15-19 | 28,135 | 25,970 | 54,105 | 27,000 | 25,400 | 52,400 | 4.3 | 2.4 | 3.4 |
| 20-24 | 24,015 | 23,620 | 47.035 | 26,000 | 25,600 | 51,400 | -7.6 | . 7.7 | -7.6 |
| 25-29 | 23,020 | 23,940 | 46,960 | 23.600 | 24,100 | 47,700 | -2.5 | -0.7 | -1.6 |
| 30-34 | 23,210 | 24,310 | 47,520 | 22,900 | 23,900 | 46,900 | 1.2 | 1.6 | 1.4 |
| 35-39 | 23,295 | 23,585 | 46,840 | 23,000 | 23,6100 | 46,600 | 1.1 | -0.2 | 0.5 |
| 40-44 | 21,585 | 21,165 | 42,750 | 21,700 | 21,500 | 43,200 | -0.4 | -1.5 | -0.9 |
| 45-49 | 16,555 | 16,130 | 32,685 | 16,510 | 16,200 | 32,700 | 0.3 | -0.6 | -0.2 |
| 50-54 | 12,760 | 12,130 | 24,910 | 12,600 | 12,200 | 24,800 | 1.5 | -0.4 | 0.6 |
| 55-59 | 11,175 | 10,645 | 21,820 | 11,200 | 10,700 | 21,900 | -0.0 | -0.5 | .0.3 |
| 60-64 | 10,075 | 10,090 | 20,165 | 10,000 | 10,200 | 20,200 | 0.7 | -1.0 | -0.1 |
| 65.69 | 8,840 | 9,170 | 18,010 | 8,800 | \$,100 | 18,000 | 0.2 | 0.3 | 0.2 |
| 70.74 | 7.160 | 8,100 | 15,260 | 7,100 | 8,200 | 15,300 | 0.3 | -0.7 | -0.2 |
| 75-79 | 4.945 | 6,355 | 11.300 | 4,900 | 6,300 | 11,100 | 1.9 | 1.1 | 1.5 |
| 80-84 | 2,575 | 3,800 | 6,375 | 2,800 | 3,900 | 6.700 | -7.3 | $-2.2$ | 4.3 |
| 85-89 | 960 | 1,808 | 2.765 | 1,000 | 1,800 | 2,700 | -2.2 | 3.0 | 1.1 |
| 90 | 425 | 1,040 | 1,465 | 400 | 1,000 | 1,400 | 13.3 | 1.7 | 4.8 |
| Prince Edward island |  |  |  |  |  |  |  |  |  |
| Total | 63,970 | 65,600 | 129,770 | 64,200 | 66,100 | 130,500 | -0.3 | -10.4 | 0.4 |
| 0-4 | 4,760 | 4,735 | \$,495 | 4,900 | 4,900 | \$,800 | -3.3 | -3.1 | 3.3 |
| 5-9 | 5,095 | 4,855 | 9,950 | 5,100 | 4,900 | 10,000 | -4.3 | 0.3 | 0.3 |
| 10-14 | 5,1ts | 4,800 | 9,915 | 5,200 | 4,900 | 10.000 | -t. 1 | -5.2 | -1. |
| 15-19 | 5.210 | 4,815 | 10,025 | 5,100 | 4,700 | 9,700 | 2.8 | 2.9 | 2.9 |
| 20-24 | 4,685 | 4,720 | 9,405 | 4,900 | 4,800 | 9,700 | 4.2 | -1.0 | -2.6 |
| 25.29 | 5,050 | 5,135 | 10,185 | 5,400 | 5,300 | 10,700 | -6.1 | -3.4 | 4.8 |
| 30-34 | \$,065 | 5,340 | 10,405 | 5,300 | 5,500 | 10,800 | -4.6 | . 2.5 | -3.5 |
| 35-39 | 4,915 | 4,960 | 9,875 | 5,000 | \$,000 | 10,000 | -1.1 | -1.7 | -1.4 |
| 40.44 | 4,810 | 4,855 | 9,663 | 4,700 | 4,800 | \$,500 | 3.4 | 0.9 | 2.2 |
| 45.49 | 3,810 | 3,475 | 7,098 | 3,500 | 3,400 | 7,000 | 1.8 | 1.3 | 1.6 |
| 50.54 | 3.010 | 2,980 | 5,990 | 3,000 | 2,900 | 5,900 | 0.3 | 1.7 | 1.0 |
| 55-59 | 2,785 | 2,785 | 5,570 | 2,700 | 2.700 | 5,400 | 3.0 | 2.5 | 2.7 |
| 60.64 | 2,545 | 2,575 | 5,120 | 2,500 | 2,600 | 5,0010 | 3.5 | 0.6 | 2.0 |
| 65.69 | 2,360 | 2,590 | 4,950 | 2,300 | 2,600 | 4,900 | 2.9 | -0.7 | 1.0 |
| 70-74 | 1,900 | 2,420 | 4,320 | 1,900 | 2.400 | 4,300 | -0.7 | -0.4 | -0.5 |
| 75-79. | 1,500 | 2,100 | 3,600 | 1300 | 2.100 | 3,400 | 11.6 | 0.5 | 4.9 |
| 80-84 | 940 | 1,380 | 2,320 | 900 | 1.400 | 2,300 | 6.9 | 0.1 | 2.8 |
| 85.69 | 385 | 750 | 1,135 | 400 | 700 | 1,100 | 1.9 | 2.0 | 2.0 |
| 90. | 225 | 525 | 750 | 200 | 500 | 700 | 17.2 | 8.0 | 10.6 |

Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Ag* <br> group | 1991 Census |  |  | Estimates |  |  | Discrepancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Wornem | Total | Men | Women | Total | Men | Women | Total |
| Nowa Scota |  |  |  |  |  |  |  |  |  |
| Total | 441,645 | 458,295 | 899,940 | 441,300 | 458,100 | 899,600 | 0.0 | 0.0 | 0.0 |
| 0.4 | 31,125 | 29,945 | 60,970 | 31,300 | 30.400 | 61,700 | -0.9 | -1.6 | -1.2 |
| 5-9 | 31,665 | 30,040 | 61,705 | 31,100 | 29.700 | 60,800 | 1.8 | 1.2 | 1.5 |
| 10.14 | 31,335 | 30,355 | 61,690 | 31,200 | 30,500 | 61,700 | 0.3 | -0.4 | 0.0 |
| 19-19 | 34,455 | 32,545 | 67,000 | 34,000 | 32,000 | 66,000 | 1.3 | 1.7 | 1.5 |
| 20-24 | 33,845 | 33,410 | 67,255 | 36,000 | 34,000 | 70,100 | -6.1 | -1.8 | 4.0 |
| 25-29 | 38,425 | 38,980 | 77,405 | 40,000 | 39,600 | 79,600 | -3.9 | -1.6 | -2.7 |
| 30-34 | 39.055 | 40,070 | 79,125 | 38,600 | 39,500 | 78,100 | 1.2 | 1.5 | 1.4 |
| 35.39 | 35,525 | 36,795 | 72,320 | 35,300 | 36,500 | 71,800 | 0.7 | 0.7 | 0.7 |
| 40.44 | 33,895 | 34,040 | 67.935 | 33.600 | 33,500 | 67.500 | 0.9 | 0.3 | 0.6 |
| 45-49 | 26,455 | 26,125 | 52,580 | 26,100 | 26,300 | 52,400 | 1.4 | -10.6 | 0.4 |
| 50-54 | 31,295 | 21,435 | 42,730 | 21,000 | 21,300 | 42,300 | 1.5 | 0.6 | 1.0 |
| 55-59 | 19,415 | 19,710 | 39,125 | 19,100 | 19,600 | 38,700 | 1.5 | 0.7 | 1.1 |
| 60-64 | 17,565 | 19,200 | 36,705 | 17,200 | 19,100 | 36,300 | 1.7 | 0.5 | 1.1 |
| 65-69 | 16,150 | 18,775 | 34,925 | 15,900 | 18,800 | 34,700 | 1.7 | 4.0 | 0.8 |
| 70.74 | 13,355 | 17,075 | 30,430 | 13,200 | 17,200 | 30,500 | 1.0 | -1.0 | -0.1 |
| 75.79 | 9,610 | 13,620 | 23.230 | 9,500 | 13,600 | 23,200 | 0.8 | -0.0 | 0.3 |
| 80-34 | 5,485 | 8,580 | 14,065 | \$,200 | 8,700 | 13.900 | 4.8 | -1.2 | 1.1 |
| 85-89 | 2,205 | 4,810 | 7.015 | 2,300 | 4,760 | 7.000 | -2.3 | 1.6 | 0.3 |
| 90+ | 950 | 2,795 | 3.745 | 900 | 2,700 | 3,500 | 11.5 | 5.0 | 6.6 |
| New Brumswick |  |  |  |  |  |  |  |  |  |
| Total | 357,185 | 366,715 | 723,900 | 358,700 | 368,100 | 726,800 | 0.4 | 0.4 | -0.4 |
| 0-4 | 24,440 | 22,920 | 47,350 | 24,900 | 23,600 | 48,500 | -1.8 | -3.0 | +2.4 |
| 5-9 | 25,830 | 24,930 | 50.760 | 25,800 | 24,700 | 50,500 | 0.2 | 0.9 | 0.6 |
| 10-14 | 27,205 | 25,890 | \$3.095 | 27,500 | 26,100 | 53,600 | +1.0 | +1.0 | -1.0 |
| 15-19 | 29,480 | 28,110 | 57,590 | 29,300 | 23,000 | \$7,200 | 0.8 | 0.5 | 0.7 |
| 20.24 | 26.965 | 26,350 | 53,355 | 29,400 | 27,600 | 57,000 | -8.2 | 4.3 | -6.3 |
| 25-29 | 29,935 | 30,520 | 60.455 | 30,900 | 30,700 | 61,610 | -3.2 | -0.6 | -1.9 |
| 30-34 | 30,870 | 31,440 | 62,310 | 30,800 | 31,200 | 62,490 | 0.3 | 0.6 | 0.6 |
| 35-39 | 29,670 | 30,255 | 59.925 | 29,400 | 30,400 | 59,800 | 1.0 | -0.6 | 0.2 |
| 40-44 | 28,225 | 27,705 | \$5,930 | 27,900 | 27,800 | 55,600 | 1.3 | -0.2 | 0.6 |
| 45-49 | 21,285 | 20,585 | 41,870 | 21,000 | 20,400 | 41,400 | 1.5 | 0.9 | 1.2 |
| 50-54 | t6,975 | 16,760 | 33,735 | 16,700 | 16,600 | 33,300 | 1.6 | 0.8 | 1.2 |
| 55.59 | 14,950 | 15,505 | 30,459 | 14,6(0) | 15,300 | 30,000 | 2.2 | 1.1 | 1.6 |
| 60-64 | 13,875 | 15,035 | 28,910 | 13,700 | 15,000 | 28,800 | 1.1 | 0.0 | 0.5 |
| .65-69 | 33,070 | 15,105 | 28.175 | 12,900 | 15,100 | 28,000 | 1.3 | 0.4 | 0.8 |
| 70.74 | 10,255 | 12,830 | 23,085 | 10.100 | 12,800 | 22,900 | 1.5 | 0.2 | 0.8 |
| 75-79 | 7,420 | 10,145 | 17,565 | 7.400 | 10.100 | 17,500 | 0.3 | 0.0 | 0.1 |
| 80.84 | 4,160 | 6,840 | 11,000 | 4,200 | 6,800 | 11,000 | -t. 6 | 0.3 | -0.4 |
| 85-89 | 1,775 | 3,640 | 5,415 | 1,700 | 3,700 | 5,400 | 2.4 | -1.6 | 0.4 |
| 90. | 805 | 2,100 | 2,905 | 600 | 2,100 | 2,700 | 34.4 | -0.5 | 7.2 |

[^19]Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Age group | 1991 Cenmus |  |  | Estimates |  |  | Discrapancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M6n | Women | Total | Men | Women | Total | Men | Womato | Total |
| Quebec |  |  |  |  |  |  |  |  |  |
| Total | 3,377,670 | 3,518,295 | 6,895,965 | 3,353,700 | 3,491,300 | 6,849,000 | 0.7 | 0.8 | 0.7 |
| 0-4 | 227,410 | 217.925 | 445,335 | 231,100 | 219,800 | 450,900 | -1.6 | -0.9 | -1.2 |
| 5-9 | 230,135 | 218,560 | 448,695 | 227,100 | 215,600 | 442,600 | 1.3 | 1.4 | 1.3 |
| 10-14 | 248,410 | 235,735 | 484,145 | 247,300 | 233,500 | 480,800 | 0.5 | 0.9 | 0.7 |
| 15.19 | 230,945 | 220,285 | 451,230 | 229,200 | 217,900 | 447,000 | 0.8 | 1.1 | t.0 |
| 20-24 | 239,400 | 235,105 | 474,505 | 245,500 | 236,100 | 481,600 | -2.5 | 0.4 | -1.5 |
| 25-79 | 298,635 | 298,300 | 598,935 | 300,600 | 296,600 | 597,300 | -0.7 | 0.6 | -0.1 |
| 30.34 | 320,120 | 323,895 | 644,015 | 315,500 | 319,700 | 635,200 | 1.5 | 1.3 | 1.4 |
| 35.39 | 294,335 | 257,705 | 392,240 | 290,100 | 294,600 | 584,700 | 1.5 | 1.1 | 1.3 |
| 40-44 | 269,470 | 272,655 | 542,125 | 265,1000 | 269,500 | 534,500 | 1.7 | 1.2 | 1.4 |
| 45-49 | 225,670 | 227.880 | 453,550 | 222,400 | 225,300 | 447,700 | 1.5 | 1.1 | 1.3 |
| 50-54 | 175,050 | 179,215 | 354,265 | 173,200 | 178,000 | 351,100 | 1.1 | 0.7 | 0.9 |
| 58-59 | 158,965 | 167,820 | 326,785 | 156,300 | 166,000 | 322,300 | 1.7 | 1.1 | 1.4 |
| 60-64 | 146,075 | 164,330 | 311,205 | 143,900 | 162,200 | 306,100 | 2.1 | 1.3 | 1.7 |
| 65.69 | 122,280 | 149.755 | 272.035 | 119,400 | 147,000. | 266,400 | 2.4 | 1.9 | 2.1 |
| 70.74 | B4,515 | 116,505 | 201,020 | 83,500 | 115,500 | 198,500 | 1.3 | 0.9 | 1.1 |
| 75.79 | 56,660 | 89,55s | 146,215 | 55,900 | 89,600 | 145,500 | 1.4 | -0.1 | 0.5 |
| 80, 84 | 30,860 | 58,610 | 89.470 | 30,700 | 58,700 | 89,400 | 0.5 | -0.1 | 0.1 |
| 85-89 | 12,675 | 30.210 | 42.885 | 12,610 | 30,800 | 43,400 | 0.9 | -2.1 | -1.2 |
| $90+$ | 5,055 | 14,250 | 19,305 | 4,600 | 14,400 | 19,300 | 10.5 | -3.5 | -0.2 |
| Ontario |  |  |  |  |  |  |  |  |  |
| Total | 4,953,04*0 | 5,131,810 | 10,084,890 | 4,868,700 | 5,037,700 | 9,906,400 | 1.7 | 1.9 | 1.8 |
| 0-4 | 362,870 | 344.725 | 705,595 | 366,200 | 348,900 | 715,100 | -0.9 | +1.2 | -1.1 |
| 5-9 | 353,495 | 339,895 | 689,390 | 342,400 | 326,000 | 688,400 | 3.2 | 3.1 | 3.1 |
| 10.14 | 337,520 | 320.745 | 658,265 | 329,400 | 313,400 | 642,800 | 2.5 | 2.3 | 2.4 |
| 15-19 | 349,015 | 330,045 | 679,060 | 340,300 | 322,700 | 663,000 | 2.6 | 2.3 | 2.4 |
| 20-24 | 370,570 | 370,530 | 741,100 | 376,700 | 363,600 | 740,300 | -1.4 | 1.9 | 0.1 |
| 25-29 | 449,260 | 455.725 | 904,985 | 441,200 | 440,200 | 881,500 | 1.8 | 3.5 | 2.7 |
| 30-34 | 452,190 | 462,665 | 914,855 | 441,500 | 447,600 | 889.000 | 2.4 | 3.4 | 2.9 |
| 35-39 | 405,08s | 421,350 | 826,475 | 396,200 | 411,700 | 807,900 | 2.3 | 2.4 | 2.3 |
| 40-44 | 382,390 | 389,500 | 771.890 | 374,300 | 382,100 | 756,400 | 2.2 | 1.9 | 2.1 |
| 45.49 | 301.520 | 301,555 | 602,115 | 295,900 | 296,000 | \$91,8000 | 1.9 | 1.6 | 1.7 |
| 50.54 | 248,565 | 248,620 | 497,185 | 243,100 | 245,700 | 483,800 | 2.2 | 1.2 | 1.7 |
| 55-39 | 228,650 | 232,170 | 461,020 | 225,000 | 229,700 | 454,700 | 1.7 | 1.1 | 1.4 |
| 60-64 | 218,390 | 229,085 | 447.475 | 213,900 | 226,400 | 440,300 | 2.1 | 1.2 | 1.6 |
| 65-69 | 187,665 | 223,405 | 411,070 | 182,900 | 219,400 | 402,300 | 2.6 | 1.8 | 2.2 |
| 70.74 | 132,360 | 170.175 | 302,535 | 129,200 | 168,900 | 298,000 | 2.5 | 0.8 | 1.5 |
| 75-79 | 92,210 | 132,035 | 224,245 | 91,400 | 131,700 | 222.700 | 1.3 | 0.3 | 0.7 |
| 80-84 | 50,470 | 87,970 | 138,440 | 50,100 | 86,200 | 138,200 | 0.8 | . 0.3 | 0.1 |
| 85-89 | 21,853 | 49,345 | 71,200 | 21,800 | 49,400 | 71,100 | 0.5 | -0.1 | 0.1 |
| 90\% | 8,800 | 27.150 | 35,990 | 7.760 | 26,300 | 34,000 | 14.0 | 3.5 | 5.9 |

Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Age grop | 1991 Censas |  |  | Estimetes |  |  | Dituctepancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Total | Men | Woumen | Total | Men | Women | Toral |
| Maritabat |  |  |  |  |  |  |  |  |  |
| Total | 538,523 | 553,415 | 1,091,940 | \$40,000 | 556,200 | 1,096,200 | -0.3 | 0.0 | -10.4 |
| 0-4 | 41,990 | 40,145 | 82,135 | 43,700 | 4,500 | 85,200 | -3.9 | . 3.3 | -3.6 |
| 5-9 | 41,245 | 39.075 | 80,320 | 41.100 | 38,900 | B0,000 | 0.4 | 0.5 | 0.4 |
| 10.14 | 39,500 | 37,770 | 77,270 | 39,200 | 37,600 | 76.800, | 0.8 | 0.4 | 0.6 |
| 15-19 | 41,453 | 38,755 | 80,210 | 40,500 | 38,200 | 78,800 | 2.2 | 1.4 | 1.8 |
| 20.24 | 39,870 | 39,065 | 78.935 | 41,900 | 39,900 | 81,600 | -4.9 | +2.0 | -3.5 |
| 25-29 | 45,615 | 45,315 | 91,930 | 46,900 | 46,4014 | 93,300 | -2.7 | -2.3 | -2.5 |
| 30.34 | 46,660 | 45,970 | 92,630 | 46,900 | 4\$,909 | 92,900 | . 0.7 | 0.1 | 4.3 |
| 35-39 | 42.555 | 42,875 | 85,430 | 42,800 | 42,700 | \$5,500 | -0.5 | 0.4 | -0.0 |
| 40-44 | 38,385 | 38,410 | 76,795 | 37,700 | 38,200 | 75,900 | 1.7 | 0.6 | 1.2 |
| 45-49 | 29,925 | 29,675 | 59,600 | 29,300 | 29,400 | 58,700 | 2.2 | 0.8 | 2.5 |
| 50-54 | 24,520 | 24,535 | 49,055 | 24,200 | 24,600 | 48,800 | 1.2 | -0.2 | 0.5 |
| 55-59 | 23.040 | 23,225 | 46.265 | 22,700 | 23.500 | 46,200 | 1.5 | -1.1 | 0.2 |
| 60-64 | 22.110 | 23,650 | 45,760 | 21,800 | 23,700 | 4S.500 | 1.4 | -0.1 | 0.6 |
| 65-69 | 20.640 | 24,670 | 45,310 | 20,500 | 24,600 | 45,100 | 0.8 | 0.3 | 0.5 |
| 70-74 | 16,465 | 20,855 | 37,320 | 16,300 | 21,100 | 37,400 | 0.9 | -1.1 | -0.3 |
| 75-79 | 12,485 | 17.450 | 29,935 | 12,500 | 17,700 | 30,200 | 0.3 | $-1.5$ | 0.8 |
| 800.84 | 7,285 | 11,555 | 18,840 | 7,300 | 11,600 | 19,100 | 0.3 | -2.3 | -1.3 |
| 85-89 | 3.410 | 6,645. | 10,055 | 3,500 | 6,800 | 10,300 | -2.8 | -2.5 | -2.6 |
| $90+$ | 1,370 | 3,765 | 5,135 | 1,200 | 3,700 | 4,800 | 18.2 | 2.7 | 6.4 |
| Sopkatchewan |  |  |  |  |  |  |  |  |  |
| Total | 490,780 | 498,150 | 988,930 | 495,100 | 501,800 | 996,800 | -0.9 | -0.7 | -0.8 |
| 0-4 | 40,015 | 33,155 | 78,170 | 41,900 | 40,000 | 81,900 | -4.6 | 4.7 | -4.6 |
| 5-9 | 41,545 | 39,710 | 81,255 | 41,200 | 39,700 | 矿,900 | 0.8 | 0.1 | 0.5 |
| 10.14 | 40,160 | 37,880 | 78,040 | 40,000 | 37,900 | 77.900 | 0.3 | 0.0 | 0.2 |
| 15.19 | 37.210 | 35,940 | 73,150 | 36,800 | 35,200 | 71,900 | 1.2 | 2.1 | 1.7 |
| 20-24 | 32,315 | 32,170 | 64,485 | 35,600 | 33,700 | 69,300 | 9.2 | 4.5 | -7.0 |
| 25-29 | 37,680 | 38,605 | 76,285 | 39,400 | 39,600 | 79.000 | 4.3 | -2.6 | -3.4 |
| 30-34 | 40,870 | 40,785 | 81,655 | 40,900 | 40,400 | 81,300 | 0.1 | 0.9 | 0.4 |
| 35-39 | 33, 575 | 37,310 | 75,885 | 38,6100 | 37,400 | 75,900 | 0.0 | -0.2 | -0.1 |
| 40-44 | 32,140 | 31,030 | 63,170 | 32,100 | 31,400 | 63,500 | 0.3 | -1.3 | -0.5 |
| 45-49 | 24,565 | 24,120 | 48,685 | 24,700 | 24,700 | 49,300 | -0.4 | -2.3 | -1.3 |
| 50-54 | 21,355 | 21,465 | 42,830 | 21,600 | 21,700 | 43,200 | $\cdot 1.0$ | - -1.0 | -1.0 |
| 55-59 | 21,260 | 21,095 | 42,395 | 21,000 | 20,900 | 41,900 | 1.4 | 1.1 | 1.2 |
| 60-64 | 21,275 | 21,785 | 43,060 | 20,600 | 21,500 | 42,100 | 3.1 | 1.5 | 2.3 |
| 65-69 | 19,685 | 21.570 | 41,255 | 19,200 | 21,300 | 40,400 | 2.7 | 1.5 | 2.1 |
| 70.74 | 16,420 | 19,685 | 36,115 | 16,100 | 19,800 | 35,900 | 1.8 | -0.3 | 0.6 |
| 75-79 | 12,695 | 16,505 | 29,200 | 12,5100 | 16,500 | 29,000 | 1.6 | 0.1 | 0.8 |
| $80-84$ | 7,645 | 10.975 | -18,620 | 7,6610 | 10,900 | 18,500 | 0.3 | 0.6 | 0.4 |
| 85-89 | 3,685 | 6,075 | 9,760 | 3,810 | 6,100 | 9,900 | -3.4 | -0.1 | -1.4 |
| $90+$ | 1,675 | 3,290 | 4,965 | 1,600 | 3,300 | 4,900 | 4.3 | -0.2 | 1.3 |

[^20]Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Age今rop | 1991 Census |  |  | Esiturates |  |  | Discrupancy (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mep | Women | Total | Men | Womer | Total | Mien | Wonten | Total |
| Alberta |  |  |  |  |  |  |  |  |  |
| Total | 1,277,375 | 1,268,173 | 2,545,550 | 1,263,8000 | 1,257,700 | 2,321,300 | 1.1 | 0.8 | 1.0 |
| 0-4 | 106,365 | 101,220 | 207,589 | 108,700 | 104,400 | 213,100 | -2.1 | -3.0 | -2.6 |
| 5-9 | 106,130 | 100,850 | 206,980 | 103,200) | 97,600 | 200,800 | 2.9 | 3.3 | 3.1 |
| 10.14 | 95,830 | 90,710 | 186,540 | 93.400 | 88.100 | 181,500 | 2.6 | 3.0 | 2.8 |
| 1\$-19 | 90.910 | 87,020 | 177,930 | 92,300 | 88,510 | 180,700 | -1.5 | -1.7 | -1.6 |
| 20-24 | 97,015 | 96,425 | 193,440 | 100,200 | 96,400 | 190,000 | +3.2 | 0.1 | -1.6 |
| 25.29 | 117,170 | 117,555 | 234,725 | 113,000 | 113,200 | 226,100 | 3.7 | 3.9 | 3.8 |
| 30,34 | 129,675 | 126,090 | 253,765 | 123,900 | 121,700 | 245,500 | 4.7 | 3.6 | 4.2 |
| 35.39 | 115,995 | t 10.785 | 226,780 | 114,100 | 110,3000 | 224,400 | 1.7 | 0.5 | 1.1 |
| 40-44 | 95,395 | \$1,835 | 387,230 | 95,100 | 92,500 | 187,600 | 0.3 | -0.8 | -0.2 |
| 45.49 | 70,360 | 67.910 | t 38,270 | 70,300 | 67,700 | 138,000 | 0.1 | 0.3 | 0.2 |
| 50.54 | 56,110 | 54,040 | 110,150 | 55,800 | 54,000 | 109.700 | 0.8 | 0.2 | 0.4 |
| 55-59 | 50,640 | 48.520 | 99,160 | 50,400 | 48,800 | 99,200 | 0.5 | 0.7 | -0.1 |
| 60-64 | 45,445 | 44,995 | 90.440 | 44,700 | 45,000 | 89,700 | 1.6 | 0.1 | 0.8 |
| 65.69 | 36.510 | 41,075 | 77,585 | 35,500 | 40,400 | 75,900 | 2.8 | 1.7 | 2.2 |
| 70.74 | 26.855 | 32,985 | 59,820 | 26,700 | 32,800 | 59,600 | 0.5 | 0.4 | 0.5 |
| 75.79 | 18,590 | 25,580 | 44,170 | 18,800 | 25,700 | 44,500 | -1.2 | -0.5 | -0.8 |
| 80.64 | 10.855 | 16,050 | 27,505 | 10,700 | 16,900 | 27,600 | 1.6 | -1.4 | 0.2 |
| BS-89 | 5,360 | 9,085 | 14.445 | 5,200 | 9,300 | 14,400 | 3.9 | -1.8 | 0.3 |
| 90. | 2,160 | 4,865 | 7,025 | 1,500 | 4,600 | 6,500 | 13.4 | 5.2 | 7.6 |
| British Columbde |  |  |  |  |  |  |  |  |  |
| Total | 1,625,975 | 1,696,090 | 3,282,065 | 1,548,000 | 1,625,200 | 3,213,200 | 2.4 | 1.9 | 2.1 |
| 0-4 | 112,905 | 107,925 | 220,830 | 113,300 | 108,200 | 221,500 | -0.4 | -0.3 | -0.3 |
| 5-9 | 116,640 | 110,650 | 220,830 | 113,100 | 107,200 | 220,400 | 3.1 | 3.2 | 0.2 |
| 10-14 | 109,870 | 104,265 | 227,290 | 107,600 | 102,300 | 209.900 | 2.1 | 1.9 | 8.3 |
| 15-19 | 108, 170 | 103,550 | 211,720 | 105,600 | t00.200 | 205,900 | 2.4 | 3.3 | 2.8 |
| 20.24 | 132,755 | 111,590 | 224,385 | 114,900 | 111,700 | 226,600 | -1.8 | 4.3 | -1.0 |
| 25-29 | 133,455 | 134,485 | 267,940 | 127,300 | 129,000 | 256,300 | 4.9 | 4.3 | 4.6 |
| 30.34 | 145.579 | 148,565 | 294,140 | 137,000 | 142,400 | 279,300 | 6.3 | 4.3 | 5.3 |
| 35.39 | 139,520 | 141,450 | 281,010 | 134,500 | (37,400 | 271,800 | 3.7 | 3.0 | 3.4 |
| 40,44 | 132,425 | 130,55s | 262,980 | 128,000 | 127,100 | 255,100 | 3.4 | 2.7 | 3.1 |
| 45-49 | 10t,765 | 98,185 | 199,950 | 98,2100 | 96,300 | 194,500 | 3.6 | 2.0 | 2.8 |
| 50-54 | 81,935 | 79.555 | 161,490 | 80,000 | 78,300 | 158,300 | 2.5 | 3.6 | 2.0 |
| 55-59 | 75,685 | 72,295 | 147, \%\% | 74,300 | 71,800 | 146,100 | 1.9 | 0.7 | 1.3 |
| 60-64 | 73,875 | 73,330 | 146,205 | 72,410 | 73.100 | 145,400 | 0.7 | 0.4 | 0.5 |
| 65-69 | 64,720 | 74,035 | 138,605 | 64,300 | 73,100 | 137,400 | 0.7 | 1.3 | 1.0 |
| 70-74 | 49.275 | 61.995 | 111,270 | 49,300 | 62,700 | 112,000 | -0.1 | -[. 2 | .0.7 |
| 75-79 | 36,190 | 48.675 | 84,865 | 36,100 | 49,100 | 85,200 | 0.1 | -0.9 | 0.5 |
| 80-84 | 19,715 | 30,170 | 49,885 | 19,800 | 30,500 | 50,300 | +0.7 | -0.9 | -0.8 |
| 85-89 | 8,895 | 15,800 | 24,695 | 9,000 | 16,200 | 25,200 | -1.3 | -2.7 | -2.2 |
| 90. | 3.550 | 8,930 | 12,480 | 3,200 | B,500 | 11,700 | 11.4 | 4.8 | 6.6 |

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Table A1. Discrepancy Between Enumerated Population and Estimated Population, by Age Group and Sex, Provinces and Territories, 1991

| Age group | 1991 Cemens |  |  | Ertimates |  |  | Disereppney (\%) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Total | Hen | Womer | Total | Men | Worpeap | Total |
| Yulcon Territory |  |  |  |  |  |  |  |  |  |
| Total | 14,485 | 13,310 | 27,795 | 14,000 | 12,900 | 26,900 | 3.5 | 2.8 | 3.2 |
| 0.4 | 1,290 | 1,125 | 2,415 | 1,300 | 1.200 | 2,500 | -1.0) | -4.6 | -2.7 |
| \$-9 | 1,235 | t. 180 | 2,415 | 1,300 | 1.100 | 2,400 | -2.2 | 5.6 | 1.4 |
| 10-14 | 1,030 | 975 | 2,005 | 1,000 | 900 | 1,900 | 1.2 | 6.8 | 3.8 |
| 15-19 | 965 | 900 | 1,665 | 900 | 900 | 1,900 | 2.7 | -2.9 | 4.1 |
| 20-24 | 1,025 | 980 | 2,005 | 1,000 | 1,000 | 2.100 | 0.3 | 6.2 | -3.0 |
| 25-29 | 1,270 | 1,340 | 2,610 | 1,300 | 1,300 | 2,600 | -4.7 | 4.0 | -0.5 |
| 30.34 | 1,480 | t,565 | 3,045 | 1,600 | 1,500 | 3.000 | . 5.4 | 5.5 | -0.1 |
| 35-39 | 1,560 | 1,505 | 3,065 | 1,400 | J,400 | 2,700 | 15.5 | 9.9 | 12.6 |
| 40-44 | 1,350 | 1,235 | 2,585 | 1,200 | 1,200 | 2.400 | 12.1 | 4.4 | 8.3 |
| 45-49 | 1,070 | 765 | 1,835 | 900 | 700 | 1,700 | 14.0 | 7.0 | 10.9 |
| 50-54 | 705 | 550 | 1,255 | 600 | 5001 | 1,200 | 9.0 | 6.6 | 7.9 |
| 55-59 | 510 | 405 | 915 | 500 | 400 | 900 | 6.3 | 3.9 | 5.2 |
| 60-64 | 420 | 270 | 600 | 400 | 300 | 700 | -0.9 | -2.9 | -1.7 |
| 65-69 | 260 | 200 | 460 | 300 | 200 | 500 | 4.0 | -10.3 | -2.8 |
| 70.74 | 150 | 150 | 300 | 100 | 100 | 200 | 38.4 | 7.9 | 20.5 |
| 75.79 | 85 | 90 | 175 | 100 | 100 | 200 | 19.7. | 8.4 | 13.6 |
| 80-84 | So | 50 | 100 | 100 | 0 | 100 | -5.7 | 8.7 | 1.0 |
| 85.89 | 15 | 20 | 35 | 0 | 0 | 0 | 87.5 | -20.0 | 6.1 |
| 90+ | 15 | 15 | 30 | 0 | 0 | 0 | 68.7 | -25.0 | 3.5 |
| Narthwent Tarnitorieq |  |  |  |  |  |  |  |  |  |
| Total | 30,055 | 27595 | 57,650 | 28,300 | 26,300 | 54,600 | 6.1 | 4.9 | 5.5 |
| $0-4$ | 3,735 | 3,630 | 7,365 | 3,800 | 3,600 | 7,400 | -1.0 | 0.5 | -0.3 |
| 5-9 | 3,215 | 2,975 | 6,190 | 2,900 | 2,800 | 5,700 | 11.3 | 8.1 | 9.7 |
| 10.14 | 2,725 | 2,620 | 5,345 | 2,500 | 2,400 | 4,900 | 9.4 | 7.3 | 8.4 |
| 15.19 | 2,460 | 2,295 | 4,755 | 2,500 | 2,300 | 4,800 | -3.2 | -0.1 | -1.7 |
| 20-24 | 2,725 | 2,655 | 5,380 | 2.700 | 2,500 | 5,200 | 0.7 | 5.7 | 3.1 |
| 25-29 | 3.065 | 3,055 | 6.120 | 2,700 | 2,800 | 5,500 | 12.4 | 9.6 | 11.0 |
| 30-34 | 2,915 | 2,660 | 5,575 | 2,000 | 2,600 | 5,100 | 12.4 | 4.1 | 0.3 |
| 35-39 | 2,470 | 2,155 | 4,625 | 2,200 | 2,000 | 4,200 | 11.8 | 8.2 | 10.1 |
| 40-44 | 2,110 | 1,740 | 3,850 | 2,000 | 1,700 | 3,700 | 3.6 | 4.9 | 4.2 |
| 45.49 | 1,420 | 1.125 | 2,545 | 1,400 | 1,100 | 2,500 | 1.5 | 5.0 | 3.0 |
| 50.54 | 1,005 | 870 | 1,875 | 900 | 800 | 1,700 | 15.7 | 10.7 | 13.3 |
| 55-59 | 790 | 655 | 1,445 | 700 | 700 | 1,400 | 11.4 | -2.0 | 4.9 |
| 60-64 | 550 | 430 | 980 | 600 | 500 | 1,000 | -4.8 | -6.7 | -5.7 |
| 65-69 | 330 | 260 | 590 | 400 | 300 | 600 | -7.3 | -3.7 | -5.6 |
| 70.74 | 244 | 1710 | 410 | 200 | 100 | 300 | 25.10 | 14.9 | 20.6 |
| 75-79 | 150 | 135 | 285 | 100 | 100 | 300 | 20.0 | 0.0 | 9.6 |
| $80-84$ | 90 | 80 | 170 | 100 | 100 | 200 | 4.7 | -2.4 | 1.2 |
| 85-89 | 35 | 55 | 90 | 0 | 100 | 100 | -2.8 | +1.8 | +2.2 |
| 90. | . . 25 | 35 | 60 | 0 | 0 | 0 | 56.3 | 9.4 | 25.0 |

Table A2. Discrepancy Between Population Distribution from GSS(1) and from the 1991 Census, by Age Group, Sex, Legal Marital Status and Provinces, 1991

| Ag* group | Singlo | Manted | Mayried sepparoted | widowed | Divorced | Single | Martied | Married separated | Widowed | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  | Women |  |  |  |  |  |
| Newfoundland in percentr |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Total | -2.61 | 3.53 | -0.35 | 0.56 | -1.13 | -1.54 | 4.21 | .1.06 | 0.62 | -0.99 |
| 15-19 | 0.46 | -0.39 | -0.04 | -0.02 | -0.02 | 1.21 | -1.12 | -0.04 | -0.04 | -0.02 |
| 20-24 | -7.85 | 8.25 | -0.27 | -0.02 | -0.45 | -\$.49 | 5.36 | 0.64 | .0.06 | -0.42 |
| 25-29 | -1.96 | 3.40 | -1.19 | -0.14 | -0.27 | -5.13 | 7.27 | -1.34 | -0.23 | -0.59 |
| 30-34 | -3.30 | 8.64 | -1.98 | -0.13 | -3.19 | -5.62 | 9.59 | -1.51 | -0.51 | -1.94 |
| 35-39 | -9.98 | 13.92 | -2.32 | -0.17 | -1.44 | -6.56 | 8.07 | -0.37 | +4.10 | -0.02 |
| 40-44 | -2.47 | 5.19 | 2.82 | -0.42 | -5.14 | -5.86 | 12.63 | -2.53 | 1.90 | -6.17 |
| 45-49 | -3.81 | 3.65 | . 2.27 | 4.38 | -2.16 | 0.33 | 4.73 | -2.23 | -0.36 | -2.50 |
| 50.54 | -1.94 | 6.35 | 1.27 | -1.29 | -4.39 | 20.41 | +13.00 | -2.06 | -1.04 | -4.32 |
| 55.59 | -7.96 | -6.91 | 2.50 | 1.61 | 10.71 | -2.41 | 8.81 | -1.64 | . 8.14 | 3.38 |
| 60.64 | 4.28 | -6.34 | -1.64 | 15.18 | -2.93 | -4.66 | -5.15 | -1.68 | 14.03 | -2.63 |
| 65-69 | -6.19 | 7.08 | -1.53 | 2.56 | -1.58 | -1.90 | -14.77 | -1.15 | 19.45 | -1.69 |
| 70-74 | 6.31 | -4.6] | -1.33 | -1.89 | 1.51 | -2.62 | 0.43 | -1.17 | 4.05 | -0.68 |
| 75.79 | .2.50 | 0.30 | -1.31 | 4.52 | .0.91 | 1.56 | -14.01 | -0.79 | 3.43 | 9.81 |
| Prince Edward tsiand |  |  |  |  |  |  |  |  |  |  |
| Total | 1.36 | 2.33 | 0.10 | -1.99 | -1.80 | -5.24 | 11.40 | -1.12 | -4.58 | -0.46 |
| 15-19 | 0.77 | -0.58 | -0.10 | -0.10 | 0.00 | 1.35 | -1.24 | 0.10 | 0.00 | 0.00 |
| 20-24 | -0.89 | 1.64 | -0.53 | -0.11 | -0.2] | -8.88 | 10.68 | -1.17 | -0.11 | -0.64 |
| 25.29 | -10.48 | 14.14 | -2.27 | -0.10 | -1.29 | 4.48 | 4.94 | -3.31 | -0.29 | 3.86 |
| 30-34 | +12.96 | 8.13 | 8.98 | -0.30 | -4.05 | -11.29 | 10.58 | 1.44 | -0.56 | -0.06 |
| 35-39 | -2.17 | 11.01 | +3.46 | -0.20 | 5.18 | 8.37 | . 30.37 | 4.29 | -1.11 | 19.02 |
| 40-44 | 27.76 | -16.23 | -3.64 | -0.31 | .7.59 | .7.73 | 17.18 | -2.25 | -1.65 | -5.55 |
| 45-49 | -5,05 | 4.03 | -0.92 | .0.55 | 2.49 | -6.32 | 16.27 | 4.02 | -3.45 | -2.48 |
| 50-54 | -9.30 | 19.77 | -3.32 | -1.33 | -5.98 | -5.70 | 10.25 | +3.69 | . 2.92 | 2.24 |
| 55-59 | 2.20 | -2.75 | -2.87 | -2.15 | 5.40 | -5.75 | 25.67 | -2.69 | -11.85 | +5.39 |
| 60-64 | 13.67 | -7.51 | 2.89 | -4.52 | -3.93 | 3.95 | 10.05 | -2.13 | -7.41 | 4.26 |
| 65-69 | 6.09 | 4.71 | 2.70 | -0.90 | -3.39 | 9.01 | 1.32 | 1.55 | -9.76 | -2.51 |
| 70.74 | -4.84 | 19.05 | -2.63 | -10.00 | -1.84 | -6.82 | 26.91 | -1.86 | -18.96 | 0.73 |
| 75.79 | -4.82 | 14.15 | -1.67 | -4.00 | -1.33 | -9.09 | 15.11 | -1.19 | -3.68 | -1.67 |
| Nove Scotia |  |  |  |  |  |  |  |  |  |  |
| Total | -0.99 | -0.54 | 0.50. | 1.29 | -0.27 | 0.66 | -0.08 | 0.74 | -1.11 | -0.20 |
| 15-19 | 0.42 | -0.30 | - 0.06 | -0.03 | -0.03 | 1.35 | -1.14 | -0.10 | - 0.00 | 0.00 |
| 20-24 | 3.83 | -6.34 | 0.0 .46 | 3.17 | -0.21 | 5.27 | -6.22 | -0.24 | -0.11. | 1.18 |
| 25-29 | -5.6.] | -0.65 | 2.26 | .0.08 | 4.06 | 4.62 | -4.51 | 1.36 | -0.29 | -1.37 |
| 30.34 | -8.44 | -0.55 | 0.13 | -0.10 | 8.95 | -0.65 | -2.77 | -0.45 | -0.56 | 4.52 |
| 35-39 | -6.94 | 4.66 | 3.10 | -1.21 | -0.50 | 2.50 | -13.75 | 4.77 | 3.06 | 3.62 |
| 40-44 | 6.06 | 3.84 | -2.23 | -0.47 | -7.20 | +6.09 | 1.85 | -3.05 | -1.65 | 8.94 |
| 45-49 | -0.4] | 12.43 | -2.26 | -0.76 | -8.96 | -3.41 | 9.44 | -2.44 | +2.10 | -1.49 |
| 50-54 | +3.38 | -2.58 | 9.39 | -1.31 | -2.14 | -2.65 | -0.68 | 5.00 | -0.16 | -1.34 |
| 55-59 | -5. 52 | -0.57 | $4.16^{\circ}$ | 1.92 | -0.01 | 12.17 | -11.60 | 2.91 | -0.94 | -2.54 |
| 60-64 | 3.12 | -13.36 | '2.60 | - 12.25 | 0.61 | -7.17 | 6.14 | 5.28 | +3.24 | -0.82 |
| 65-69 | 0.70 | 2.14 | -2.51 | 1.46 | -1.83 | 6.25 | -12.08 | -1.54 | 8.84 | -1.85 |
| 70.74 | -4.54 | 2.36 | +1.60 | 2.15 | 1.83 | -2.24 | -0.36 | -0.24 | 2.31 | 0.53 |
| 75-79 | -7.50 | 12.02 | -1.93 | -4.10 | +2.50 | 0.29 | -8.12 | -1.19 | 3.14 | 5.41 |

Table A2. Discrepancy Between Population Distribution from GSS(1) and from the 1991 Census, by Age Group, Sex, Legal Marital Status and Provinces, 1991


Table A2. Discrepancy Between Population Distribution from GSS(1) and from the 1991 Census, by Age Group, Sex, Legal Marital Status and Prowinces, 1991

| Age group | Single | Manied | Mantied separated | Whidowed | Divorced | Stingle | Manted | Maurised separated | Whiowed | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  |  | Whamep |  |  |  |  |
|  | in percentage point |  |  |  |  |  |  |  |  |  |
| Mandtoba |  |  |  |  |  |  |  |  |  |  |
| Total | -2.40 | 4.72 | -0,46 | $\mathbf{0 . 7 5}$ | -1.11 | 0.85 | 0.34 | -0.37 | -1.30 | 0.47 |
| 15-19 | 0.63 | -0.49 | -1.06 | -0.02 | -0.04 | 1.94 | -1.72 | 0.13 | -0.05 | -0.04 |
| 20-24 | 5.26 | 4.48 | -0.49 | -0.04 | -0.24 | 3.47 | -6.47 | 1.67 | -0.12 | 1.45 |
| 25-29 | -11.18 | 14.33 | .0.65 | -0.07 | -2.23 | -1.42 | 0.53 | 1.08 | -0.22 | 0.04 |
| 30-34 | -17.78 | 21.35 | -3.21 | -0.11 | -0.25 | +1.63 | 3.72 | -1.28 | -0.44 | +0.36 |
| 35.39 | 3.21 | 0.63 | -3.76 | -0.26 | 0.18 | -4.15 | 2.65 | -2.83 | 4.25 | -3.90 |
| 40.44 | -1.25 | 7.44 | -3.76 | -0.46 | -1.98 | 5.09 | -4.17 | -1.15 | -1.73 | 1.93 |
| 45-49 | -8.87 | 3.55 | 11.00 | -0.72 | -4.99 | 6.72 | -8.65 | 6.89 | 0.30 | 8.16 |
| \$0-54 | -1.59 | -1.53 | -0.24 | -1.41 | 4.74 | 12.35 | 0.05 | -1.90 | 4.03 | -6.45 |
| 55-59 | 0.58 | 4.72 | 1.52 | -0.12 | -4.68 | -5.47 | 9.28 | -3.19 | 0.28 | -0.91 |
| 60-64 | 4.70 | -10.41 | 0. 39 | 5.52 | -0.18 | -5.67 | 10.44 | -2.45 | -4.08 | 1.76 |
| 65-69 | -5.82 | 9.13 | 1.17 | -0.46 | 4.910 | 3.00 | 6.78 | 0.49 | -11.67 | 2.38 |
| 70-74 | -8.47 | -3.91 | 1.40 | 1.46 | 9.52 | -0.88 | -9.79 | -1.70 | 6.17 | 6.21 |
| 75-79 | -0.74 | 11.93 | -2.08 | -6.66 | -2.44 | -5.11 | -0.93 | -1. 23 | 9.51 | -2.26 |
| Sanlettchewan |  |  |  |  |  |  |  |  |  |  |
| Total | -1.18 | 3.44 | 0.40 | 0.58 | -2.08 | -1.50 | -1.42 | 1.18 | -1.35 | 3.12 |
| 15-19 | 0.46 | -0.34 | -0,04 | -0.04 | -0.04 | 1.57 | -1.35 | -0.11 | -0.07 | -0.04 |
| 20.24 | 1.3) | .0.45 | -0.48 | -0.05 | +0.31 | -9.37 | 5.66 | 2.51 | -0.08 | 1.10 |
| 25-29 | -23.43 | 23.56 | 2.15 | .0.04 | -2.23 | -9.93 | 12.82 | -3.10 | -0.27 | 0.48 |
| 30-34 | 1.32 | 4.51 | +2.70 | -0.12 | -3.21 | -1.22 | 10.61 | -3.72 | -0.58 | -5.11 |
| 35.39 | -2.05 | 1.28 | 3.26 | 0.22 | -2.30 | 0.91 | -1.57 | 0.41 | -0.92 | 1.19 |
| 41)-44 | -5.32 | 2.74 | 1.77 | 1.68 | -0.86 | 2.18 | -23.52 | 14.00 | 1.33 | 6.03 |
| 45-49 | 16.32 | -30.53 | 2.56 | -0.81 | -7.55 | -5.00 | -2.30 | -3.44 | -3.48 | 14.22 |
| 50.54 | 4.38 | 6.53 | -2.93 | 1.62 | -0.84 | 0.05 | -21.71 | -2.73 | 6.03 | 18.36 |
| 59-59 | -6.71 | 11.93 | 3.01 | -2.16 | -6.04 | -1.37 | -15.06 | 12.61 | 3.85 | -0.01 |
| 60.64 | 12.63 | -6.29 | -2.28 | -3.55 | -0.56 | 4.63 | -17.08 | 3.01 | 1.48 | 7.91 |
| 65.69 | -2.63 | 7.61 | -0.69 | -4.07 | -0.22 | -4.02 | -3.11 | 4.22 | 2.76 | 0.15 |
| 70-74 | -4.33 | 1.62 | -1.89 | 7.16 | -2.56 | -2.16 | -7.11 | -1.50) | 13.29 | -2.56 |
| 75-79 | -2.24 | 1.29 | 6.20 | -6.37 | 1.11 | -6.67 | 13.22 | -1.12 | -10.43 | 4.61 |
| Aberte . 4.61 |  |  |  |  |  |  |  |  |  |  |
| Total | -1.27 | 0.22 | 0.17 | 0.49 | 0.39 | -0.05 | 2.04 | 0.53 | -2.16 | +0,36 |
| 15-15 | 0.63 | -0.52 | -0.04 | -0.03 | .0.04 | 0.71 | -0.45 | -0.13 | -0.05 | -1.07 |
| 20-24 | -13.70 | 12.70 | -0.55 | +0.04 | -0.41 | t. 26 | -0.39 | -0.24 | -0.09 | -0.53 |
| 25-29 | -1.32 | 1.91 | -1.22 | -0.06 | 0.69 | +8.48 | 7.35 | 0.96 | -0.23 | 0.42 |
| 30.34 | 5.11 | -4.73 | -0.24 | -0.12 | -0.02 | 4.58 | +2.39 | 4.60 | -0.45 | 2.83 |
| 35-39 | 4.00 | 4.88 | -1. 34 | 0.22 | 6.44 | 132 | 8.24 | -3.28 | -0.91 | -5.38 |
| 40.44 | -4.64 | -1.95 | 6.47 | 0.40 | 0.53 | 4.29 | 10.21 | -1.71 | +1.60 | -2.61 |
| 45.49 | -7.23 | 9.38 | 2.05 | 2.05 | -6. 25 | 3.32 | -17.89 | -3.68 | 1.60 | 16.65 |
| 50-54 | -6. 26 | 7.81 | -1.13 | 3.95 | 4.35 | 0.58 | 0.44 | 0.53 | 1.91 | -3.47 |
| 55-59 | -1.97 | -2.28 | 2.94 | -2.16 | - 3.54 | 0.02 | 13.64 | -0.63 | +2.92 | -56. 10 |
| 60-54 | -5.58 | -5.28 | -2.42 | 11.53 | 1.74. | 0.26 | 11.87 | 3.72 | -13.95 | -1. 92 |
| 69-69 | -0.43 | -2.58 | -2.08 | 3.42 | 1.67 | -2.72 | 2.42 | -2.03 | 4.68 | +2.34 |
| 70-74 | -3.55 | 0.55 | -1.15 | 2.44 | 1.66 | -0.11 | -6.16 | 8.69 | -0.38 | -2.03 |
| 75-79 | 15.20 | -3.95 | -1.96 | -6.69. | -2.59 | 8.66 | -17.96 | 4.06 | \$.36 | -0.11 |

Table A2. Discrepancy Between Population Distribution from GSS(1) and from the 1991 Census, by Age Group, Sex, Legal Marital Status and Provinces, 1991

| Age grotip | Single | Married | Married/ sepprated | Widowed | Divorced | Single | Manted | Mantited eaparatid | Widowed | Drvorcead |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  |  | Women |  |  |  |  |
| Eitelsh Cahumbig tim percentmge point |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Total | 0.92 | -1.46 | -0.22 | 0.33 | 0.44 | 1.34 | 0.60 | -0.36 | -0.54 | 0.17 |
| 15-19 | 0.58 | -0.46 | -0.05 | -0.03 | -0.04 | -2.05 | 0.40 | 1.76 | -0.05 | -0.06 |
| 20-24 | 5.40 | -4.41 | -0.62 | 0.03 | -0.34 | 17.22 | -14.46 | -1.76 | -0.10 | -0.88 |
| 25-29 | -2.29 | 1.33 | 1.98 | -0.04 | +0.98 | . 2.84 | 4.77 | -2.76 | -0.23 | 1.07 |
| 30.34 | 0.36 | -0.47 | -0.47 | -0.12 | 0.69 | -0.64 | 0.42 | .0.54 | 0.01 | 0.74 |
| 35.39 | -3.79 | -2.44 | 1.36 | -0.23 | 5.11 | -6.95 | 7.20 | 2.06 | -0.90 | -1.42 |
| 40-44 | 8.94 | +0.72 | -4.30 | 2.51 | -6.44 | 1.9\% | 2.01 | 0.70 | -0.58 | -4.12 |
| 45-49 | -7.02 | -3.35 | 2.41 | -0.69 | 8.65 | -1.64 | 4.02 | 1.72 | -t.93 | 5.86 |
| 50-54 | 1.08 | 1.45 | -0.77 | -1.19 | -0.57 | -2.87 | 4.88 | -1.0] | 3.15 | -4.16 |
| 55-59 | 1.14 | -2.81 | 3.88 | -0.44 | +1.75 | -1.92 | 6.40 | -3.40 | -1.56 | 0.48 |
| 60.64 | -2.51 | 1.22 | -3.05 | 4.52 | 0.18 | 0.46 | -15.05 | -1.45 | 10.38 | 5.67 |
| 65-69 | -3.00 | 2.76 | -1.89 | 2.07 | 0.07 | .0.40 | -5.20 | -0.95 | 2.19 | 4.36 |
| 70-74 | .0.78 | -12.16 | -1.21 | 12.36 | 1.82 | -2.85 | 13.87 | -2.10 | -5.76 | -3.16 |
| 75-79 | -4,69 | -2.51 | -1.13 | 3.95 | 4.58 | 6.55 | -2.38 | 2.65 | -8.22 | 1.40 |

Table A3. Ratio of Enumerated Population to Estimated Population, by Age Group, Sex, Marital Status and Provinces, 1991

| Age <br>  | Single | Married | Whdowed | Divorced | Single | Manted | Midowed | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hen |  |  | Wornen |  |  |  |  |
| Newforadiand |  |  |  |  |  |  |  |  |
| Total | 0.94 | 1.02 | 0.96 | 0.78 | 0.90 | 1.02 | 0.98 | 0.82 |
| 15-19 | 1.04 | 4.64 | 5.00 | - | 1.00 | 3.08 | - | 0.00 |
| 20.24 | 0.86 | 1.49 | 0.00 | 0.38 | 0.79 | 1.40 | 0.50 | 0.46 |
| 25-29 | 0.92 | 1.12 | 0.48 | 0.49 | 0.80 | 1.07 | 1.39 | 0.71 |
| 30-34 | 0.69 | 1.04 | 0.67 | 0.62 | 0.94 | 1.01 | 1.12 | 0.82 |
| 35-39 | 0,94 | 1.01 | 0.71 | 0.79 | 0.95 | 0.99 | 0.89 | 0.80 |
| 40-44 | 0.97 | 0.9\% | 1.08 | 0.86 | 0.91 | 0.98 | 0.89 | 0.79 |
| 45-49 | 0.98 | 0.99 | 1.07 | 0.88 | 0.99 | 0.98 | . 0.91 | 0.91 |
| 50-54 | 0.98 | 1.01 | 1.03 | 0.82 | 1.02 | 0.98 | 0.95 | 0.94 |
| 55-59 | 1.03 | 0.98 | 0.98 | 0.96 | 0.98 | 0.99 | 0.97 | 0.80 |
| 60-64 | 1.07 | 1.00 | 0.9] | 0.83 | 1.00 | 0.98 | 0.97 | 0.81 |
| 65.69 | 1.08 | 0.98 | 0.96 | 0.91 | 1.00 | 1.00 | 0.98 | 1.12 |
| 70.74 | 0.98 | 0.99 | 1.02 | 0.75 | 0.97 | 0.98 | 0.98 | 1.00 |
| 75-79 | 1.03 | 1.02 | 0.94 | 0.87 | 1.05 | 0.94 | 1.04 | 1.00 |
| Pince Edward Ialand 0.94 der |  |  |  |  |  |  |  |  |
| Towal | 0.97 | 0.98 | 1.13 | 0.92 | 0.99 | 0.96 | 0.99 | 0.97 |
| 15-19 | 1.01 | 9.29 | - | - | 1.00 | 4.10 | - | - |
| 20.24 | 0.91 | 1.21 | 0.00 | 0.63 | 0.90 | 1.21 | 2.50 | $0 . \%$ |
| 25-79 | 0.91 | 0.94 | - | 0.59 | 1.22 | 0.87 | 0.83 | 0.70 |
| 30-34 | 1.00 | 0.92 | 1.67 | 0.75 | 1.01 | 0.92 | 1.67 | 1.07 |
| 35-39 | 1.01 | 0.97 | 0.50 | 0.82 | 0.92 | 0.94 | 1.32 | 1.02 |
| 40-44 | 0.98 | 1.00 | 1.50 | 1.06 | 1.06 | 0.96 | 0.98 | 0.93 |
| 45-49 | 1.04 | 1.00 | 0.91 | 0.73 | 1,00 | 0.98 | 0.99 | 0.94 |
| 50-54 | 1.02 | 0.98 | 0.83 | 1.01 | 1.04 | 0.97 | 1.23 | 0.95 |
| 55.59 | 1.05 | 1.00 | 1.02 | 1.05 | 1.12 | 1.00 | 0.97 | 0.89 |
| 60.64 | 1.05 | 0.99 | 1.39 | 1.02 | 1.07 | 0.98 | 0.95 | 1.18 |
| 65-69 | 1.15 | 0.97 | 1.13 | 1.33 | 1.03 | 0.96 | 0.98 | 1.16 |
| 70.74 | 1.00 | 0.94 | 1.12 | 1.43 | 0.98 | 0.98 | 0.99 | 0.93 |
| 75.79 | 1.06 | 1.10 | 1.12 | 1.33 | 1.03 | 1.03 | 0.96 | 1.07 |
| Nove Scotia |  |  |  |  |  |  |  |  |
| Total | 0.94 | 1.01 | 0.99 | 0.78 | 0.96 | 0.99 | 0.99 | 0.85 |
| 15-19 | 1.00 | 4.51 | -0.63 | -1.25 | 0.99 | 3.46 | 3.75 | 3.33 |
| 20-24 | 0.86 | 1.54 | -1.43 | 0.41 | 0.86 | 1.31 | 1.25 | 0.57 |
| 25-29 | 0.84 | 1.07 | 1.00 | 0.48 | 0.96 | 0.98 | 0.58 | 0.55 |
| 30.34 | 1.04 | 1.00 | 0.58 | 0.58 | 1.10 | 0.98 | 0.84 | 0.75 |
| 35-39 | 1.07 | 0.98 | 1.14 | 0.75 | $t .01$ | 0.98 | 0.88 | 0.81 |
| 40.44 | 0.99 | 1.00 | 1.05 | 0.79 | 1.01 | 0.97 | 1.01 | 0.88 |
| 45-49 | 1.03 | 1.00 | 1.01 | 0.81 | 0.99 | 0.97 | 0.96 | 0.91 |
| 50.54 | 1.10 | 0.99 | 0.90 | 0.87 | 1.03 | 0.98 | 0.96 | 0.97 |
| 55-59 | 1.09 | 0.99 | 0.98 | 0.96 | 1.04 | 0.98 | 0.96 | 1.01 |
| 60.64 | 1.11 | 0.99 | 0.96 | 0.95 | 1.02 | 0.98 | 0.99 | 1.02 |
| 65.69 | 1.07 | 0.99 | 0.98 | 1.09 | 0.99 | 0.98 | 0.98 | 1.00 |
| 70.74 | 1.00 | 0.99 | 1.00 | I.11 | 0.98 | 0.95 | 1.00 | 1.01 |
| . 75.79 | 1.00 | 0.99 | 1.00 | 0.15 | 1.01 | 0.94 | 1.02 | 0. 89 |

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Table A3. Ratio of Enumerated Population to Estimated Population, by Age Group, Sex, Marital Status and Provinces, 1991

| Age group | Stingle | Married | Widowed | Divoreed | Single | Married | Widowed | Divoreed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  | Women |  |  |  |
| New Erumswick |  |  |  |  |  |  |  |  |
| Total | 0.93 | 1.00 | 1.03 | 0.80 | 0.94 | 0.99 | 1.01 | 0.83 |
| 15-19 | 1.00 | 6.00 | 2.50 | - | 0.98 | 3.59 | \$.00 | 2.50 |
| 20.24 | 0.83 | 1.56 | 0.33 | 0.78 | 0.80 | 1.36 | 0.96 | 0.68 |
| 25.29 | 0.84 | 1.07 | 0.77 | 0.61 | 0.95 | 0.98 | 1.00 | 0.66 |
| 30.34 | 1.06 | 0.97 | 0.49 | 0.67 | 1.12 | 0.96 | 0.95 | 0.81 |
| 35-39 | 1.05 | 0.99 | 0.93 | 0.71 | t.00 | 0.97 | 0.81 | 0.78 |
| 40.44 | 1.07 | 0.99 | 0.92 | 0.81 | 1.03 | 0.96 | 1.04 | 0.84 |
| 45.49 | 1.02 | 0.99 | 1.04 | 0.81 | 0.98 | 0.98 | 1.02 | 0.85 |
| 50-54 | 1.06 | 0.99 | 0.98 | 0.83 | 1.03 | 0.98 | 0.99 | 0.84 |
| 55-59 | 1.01 | 0.99 | 1.00 | 0.91 | 1.03 | 0.97 | 1.03 | 0.93 |
| 60-64 | 1.03 | 0.97 | 1.07 | 1.01 | 1.02 | 0.97 | 0.99 | 0.90 |
| 65.69 | 1.02 | 0.97 | 1.09 | 1.02 | 3.04 | 0.96 | 1.02 | 0.96 |
| 71-74 | 1.02 | 0.99 | 1.02 | 0.99 | 1.09 | 0.95 | 1.01 | 0.93 |
| 75.79 | 1.02 | 0.96 | 1.06 | 1.03 | 1.06 | 0.92 | 1.02 | 0.98 |
| Qupbec |  |  |  |  |  |  |  |  |
| Total | 0.92 | 1.07 | 0.90 | 0.68 | 0.89 | 1.05 | 0.98 | 0.82 |
| 15-19 | 1.00 | 10.67 | 11.67 | -25.00 | 0.97 | 6.46 | 20.71 | -12.00 |
| 20.24 | 0.84 | 2.57 | 0.96 | 0.93 | 0.76 | 2.00 | 0.83 | 0.88 |
| 25-29 | 0.76 | 1.34 | 1.27 | 0.58 | 0.76 | 1.16 | 0.75 | 0.66 |
| 30-34 | 0.93 | 1.10 | 1.39 | 0.53 | 0.95 | 1.03 | 0.82 | 0.68 |
| 35-39 | 1.04 | 1.03 | 0.93 | 0.58 | 0.99 | 1.01 | 0.89 | 0.76 |
| 40.44 | 1.09 | 1.02 | 0.96 | 0.67 | 1.02 | 1.00 | 0.93 | 0.63 |
| 45-49 | 1.09 | 1.02 | 0.93 | 0.71 | 1.03 | 0.99 | 0.95 | 0.67 |
| 50.54 | 1.07 | 1.01 | 0.89 | 0.74 | 1.03 | 0.98 | 0.95 | 0.68 |
| 55.59 | 1.05 | 1.01 | 0.88 | 0.80 | 1.03 | 0.98 | 0.96 | 0.94 |
| 60-64 | 1.10) | 1.00 | 0.91 | 0.84 | 1.04 | 0.98 | 0.99 | 0.93 |
| 65.69 | 1.08 | 1.00 | 0.94 | 0.87 | 1.04 | 0.98 | 1.02 | 0.91 |
| 70.74 | 1.09 | 1.00 | 0.89 | 0.81 | 1.04 | 0.99 | 0.99 | 0.84 |
| 75-79 | 1.11 | 1.03 | 0.84 | 0.81 | 1.01 | 1.00 | 0.97 | 0.83 |
| Ontario |  |  |  |  |  |  |  |  |
| Total | 1.01 | 1.00 | 1.00 | 0.77 | 1.03 | 0.98 | 1.01 | 0.87 |
| 15-19 | 1.02 | 4.07 | 8. 46 | 6.90 | 1.00 | 2.01 | 14.06 | 2.46 |
| 20-24 | 0.95 | 1.20 | 0.50 | 0.62 | 0.98 | 1.08 | 0.79 | 0.67 |
| 25-29 | 1.00 | 1.03 | 0.83 | 0.56 | 1.08 | 0.99 | 0.78 | 0.66 |
| 30-34 | 1.11 | 0.99 | 0.94 | 0.63 | 1.17 | 0.98 | 0.98 | 0.78 |
| 35-39 | 1.14 | 0.99 | 0.95 | 0.74 | 1.12 | 0.98 | 0.98 | 0.86 |
| 40-44 | 1.09 | 0.99 | 1.03 | 0.78 | 1.08 | 0.98 | 1.00 | 0.89 |
| 45.49 | 1.08 | 0.99 | 0.98 | 0.80 | 1.05 | 0.98 | 1.01 | 0.89 |
| 50-54 | 1.08 | 1.00 | 0.98 | 0.82 | 1.04 | 0.98 | 1.01 | 0.93 |
| \$5-59 | 1.06 | 1.00 | 0.95 | 0.86 | 1.03 | 0.98 | 1.00 | 0.97 |
| 60-64 | 1.09 | 1.00 | 1.00 | 0.88 | 1.05 | 0.98 | 1.00 | 0.98 |
| 65.69 | 1.10 | 1.00 | 1.04 | 0.93 | 1.05 | 0.98 | 1.03 | 0.96 |
| 70.74 | 1.09 | 1.01 | 0.98 | 0.92 | 1.02 | 0.97 | 1.12 | 0.91 |
| 75-79 | 1.06 | 0.99 | 1.01 | 0.90 | 1.02 | 0.95 | 1.02 | 0.92 |

[^21]Table A3. Ratio of Enumerated Population to Estimated Population, by Age Group, Sex, Marital Status and Provinces, 1991

| Age ExOLP | Single | Marited | Widowed | Divorced | Stingle | Married | Whdowed | Afivorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  | Women |  |  |  |
| Manito |  |  |  |  |  |  |  |  |
| Total | 0.97 | 0.99 | 1.00 | 0.81 | 0.96 | 0.98 | 0.99 | 0.87 |
| 15-19 | 1.01 | 3.93 | - | 7.50 | 0.98 | 2.47 | 6.25 | 5.00 |
| 20.24 | 0.88 | 1.45 | 1.67 | 0.39 | 0.67 | 1.24 | 0.95 | 0.53 |
| 25.29 | 0.91 | 1.02 | 1.25 | 0.58 | 0.55 | 0.97 | 0.81 | 0.61 |
| 30-34 | 1.05 | 0.97 | 0.77 | 0.64 | 1.11 | 0.96 | 0.98 | 0.79 |
| 35-39. | 1.06 | 0.96 | 1.20 | 0.78 | 1.06 | 0.96 | 1.00 | 0.87 |
| 40-44 | 1.10 | 0.98 | 1.03 | 0.87 | 0.99 | 0.97 | 1.06 | 0.92 |
| 45.49 | 1.10 | 0.99 | 0.90 | 0.86 | 1.03 | 0.97 | 0.99 | 0.96 |
| \$0-54 | 1.08 | 0.98 | 0.91 | 0.66 | 1.08 | 0.96 | 0.94 | 0.93 |
| 55-59 | 1.11 | 0.98 | 0.98 | 0.91 | 1.07 | 0.96 | 0.95 | 0.92 |
| 60-64 | 1.09 | 0.98 | 1.04 | 0.92 | 1.01 | 0.97 | 0.98 | 1.00 |
| 65-69 | 1.06 | 0.98 | 1.00 | 0.91 | 1.04 | 0.97 | 1.01 | 1.01 |
| 70-74 | 1.09 | 0.98 | 1.02 | 0.98 | $t .00$ | 0.95 | 1.00 | 0.94 |
| 75-79 | 1.10 | 0.97 | 0.99 | 0.85 | 0.99 | 0.93 | 1.00 | 0.87 |
| Saskatchewan 0.0 .808 |  |  |  |  |  |  |  |  |
| Total | 0.95 | 1.00 | 1.00 | 0.75 | 0.95 | 0.99 | 1.00 | 0.82 |
| 15+19 | 1.00 | 5.37 | - | 2.50 | 0.98 | 4.56 | 4.17 | 10.00 |
| 20-24 | 0.82 | 1.46 | 0.63 | 0.56 | 0.81 | 1.26 | 0.54 | 0.49 |
| 25.29 | 0.48 | 1.02 | 0.63 | 0.47 | 1.01 | 0.95 | 0.67 | 0.57 |
| 30-34 | 1.05 | 0.99 | 0.82 | 0.56 | 1.09 | 0.98 | 1.15 | 0.71 |
| 35-39 | 1.03 | 0.98 | 1.12 | 0.77 | 1.00 | 0.97 | 1.02 | 0.85 |
| 40-44 | 1.06 | 0.98 | t. $\$ 2$ | 0.74 | 1.07 | 0.96 | 0.84 | 0.85 |
| 45-49 | 1.02 | 0.98 | 1.08 | 0.76 | 1.01 | 0.96 | 0.95 | 0.84 |
| 50-54 | 1.09 | 0.96 | 1.03 | 0.84 | 1.05 | 0.96 | 1.01 | 0.95 |
| 55-59 | 1.08 | 0.99 | 1.02 | 0.81 | 1.05 | 0.98 | 0.99 | 0.92 |
| 60.64 | 1.10 | 1.01 | 0.97 | 0.94 | 1.10 | 0.99 | 1.00 | 0.97 |
| 65.69 | 1.05 | 1.00 | 1.01 | 1.00 | 1.13 | 0.99 | 1.00 | 0.94 |
| 70-74 | 1.05 | 1.00 | 0.97 | 0.94 | 1.01 | 0.96 | 1.01 | 0.91 |
| 75-79 | 1.03 | 0.99 | 1.04 | 0.95 | 1.07 | 0.95 | 1.01 | 0.97 |
|  |  |  |  |  |  |  |  |  |
| Total | 0.97 | 1.02 | 0.96 | 0.79 | 0.96 | 1.00 | 1.00 | 0.87 |
| 15-19 | 0.97 | 4.56 | +15.00 | 3.75 | 0.94 | 2.75 | 6.43 | 2.29 |
| 20-24 | 0.87 | 1.56 | 1.09 | 0.69 | 0.87 | 1.27 | 0.68 | 0.67 |
| 25-29 | 0.98 | 1.09 | 0.83 | 0.56 | 1.07 | 1.01 | 0.81 | 0.68 |
| 30-34 | 1.15 | 1.02 | 0.82 | 0.64 | 1.16 | 1.00 | 0.86 | 0.77 |
| 35-39 | 1.10 | 0.99 | 1.00 | 0.78 | 1.05 | 0.97 | 0.92 | 0.86 |
| 40.44 | 1.08 | 0.98 | 0.79 | 0.82 | 1.02 | 0.96 | 0.95 | 0.86 |
| 45-49 | 1.07 | 0.99 | 0.92 | 0.81 | 1.05 | 0.98 | 0.96 | 0.91 |
| 50-54 | 1.03 | 0.99 | 0.84 | 0.88 | 1.02 | 0.97 | 0.99 | 0.98 |
| 55.59 | 1.07 | 0.99 | 0.86 | 0.89 | 1.01 | 0.97 | 0.97 | 0.95 |
| 60-64 | 1.09 | 0.99 | 0.98 | 0.93 | 1.04 | 0.98 | 0.97 | 1.01 |
| 65.69 | 1.04 | 1.01 | 1.05 | 0.97 | 1.04 | 0.99 | 1.00 | 1.01 |
| 70.74 | 0.99 | 0.99 | 1.01 | 0.94 | 0.98 | 0.97 | 1.01 | 0.92 |
| 75.79 | 0.98 | 0.97 | 0.93 | 0.99 | 1.02 | 0.94 | 1.02 | 0.86 |

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Table A3. Ratio of Enumerated Population to Estimated Population, by Age Group, Sex, Marital Status and Provinces, 1991

| Age group | Single | Married | Whdowed | Divaread | Stugle | Manried | Windowed | Divorced |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  | Wompan |  |  |  |
| British Columbla |  |  |  |  |  |  |  |  |
| Total | 1.01 | 1.00 | 0.95 | Q.的 | 1.01 | 0.99 | 1.00 | 0.94 |
| 15-19 | 1.01 | 8.10 | 4.38 | 2.31 | 1.01 | 3.15 | 5.50 | 2.65 |
| 20.24 | 0.89 | 1.65 | 0.55 | 0.76 | 0.88 | 1.28 | 0.83 | 0.70 |
| 25-29 | 3.02 | 1.06 | 0.37 | 0.63 | 1.14 | 0.97 | 0.85 | 0.69 |
| 30.34 | 1.23 | 0.99 | 0.89 | 0.75 | 1.24 | 0.97 | 0.95 | 0.82 |
| 35.39 | 1.20 | 0.98 | 0.90 | 0.85 | 1.15 | 0.97 | 0.94 | 0.94 |
| $40 \cdot 44$ | 1.14 | 0.98 | 0.80 | 0.94 | 1.11 | 0.97 | 0.99 | 0.96 |
| 4\$-49 | 1.09 | 1.00 | 0.90 | 0.91 | 1.07 | 0.97 | 1.01 | 0.97 |
| \$0-54 | 1.01 | 1.00 | 4.91 | 0.91 | 1.02 | 0.98 | 0.98 | 0.99 |
| \$5-59 | 1.03 | 0.99 | 0.90 | 0.94 | 1.00 | 0.97 | 0.96 | 0.95 |
| 60.64 | 1.01 | 0.98 | 0.93 | 0.98 | 0.97 | 0.97 | 0.97 | 1.102 |
| 65.69 | 1.00 | 0.98 | 0.99 | 1.00 | 0.97 | 0.97 | 1.02 | 1.04 |
| 70-74 | 1.02 | 0.98 | 0.98 | 0.93 | 0.95 | 0.95 | 0.99 | 0.96 |
| 75-79 | 1.04 | 0.98 | 0.96 | 1.00 | 0.98 | 0.94 | 1.01 | 0.91 |

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