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**Census Metropolitan Area and
Census Agglomeration Influenced Zones (MIZ)
with Census Data**

by

Sheila Rambeau and Kathleen Todd

Geography Division
Statistics Canada

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GEO-Help
Geography Division
Statistics Canada
Jean Talon Building, 3rd floor
Ottawa, Ontario K1A 0T6

Telephone: (613) 951-3889
FAX: (613) 951-0569
Internet: geohelp@statcan.ca

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ABSTRACT

With this working paper, Statistics Canada is releasing 1991 Census data tabulated by a new geographic classification called "census **m**etropolitan area and census agglomeration **i**nfluenced **z**ones", or **MIZ**. This classification applies to census subdivisions (municipalities) that lie outside census metropolitan areas and census agglomerations. This part of Canada covers 96% of the country's total land mass and contains 22% of its population, yet up to now we have been limited in our means of differentiating this vast area. The MIZ classification shows the influence of census metropolitan areas (CMA) and census agglomerations (CA) on surrounding census subdivisions as measured by commuting flows based on 1991 Census place of work data. This version of the MIZ classification also incorporates a preliminary version of a north concept that flags census subdivisions according to their location in the north or south of Canada.

The series of tables presented here show detailed demographic, social and economic characteristics for Canada as a whole, for the six major regions of Canada, and for individual provinces and territories. Within each table, the data are subdivided into five categories: census metropolitan area or census agglomeration, strong MIZ, moderate MIZ, weak MIZ and no MIZ. Within each of these categories, the data are further subdivided into north and south.

Readers are invited to review and use the data tables to assess whether this combined MIZ and north/south classification of non-CMA/CA areas provides sufficient detail to support data analysis and research. The intent of this MIZ classification is to reveal previously hidden data detail and thereby help users address issues related to this vast geographic area.

This is the first of three related Geography Working Papers (Catalogue no. 92F0138MIE). The second working paper (No. 2000-2) provides background information about the methodology used to delineate the MIZ classification. The third working paper (No. 2000-3) describes the methodology used to define a continuous line across Canada that separates the north from the south to further differentiate the MIZ classification.

1. INTRODUCTION

Statistics Canada's user communities have indicated that existing classifications for the area that lies outside census metropolitan areas and census agglomerations are no longer adequate to support their analytical needs. Geography Division has responded to these demands with research into methods of enhancing the portrayal of this vast area of Canada that covers 96% of the country's total land mass and contains 22% of its population. The research has led to a new geographic classification of census subdivisions called "census metropolitan area and census agglomeration influenced zones", or **MIZ**.

This working paper briefly describes the MIZ categories and makes available 32 tables of 1991 Census data tabulated by these categories. The MIZ categories measure the influence of census metropolitan areas and census agglomerations on surrounding census subdivisions, based on commuting flows calculated from 1991 Census place of work data. The MIZ classification used to produce the tables also incorporates a preliminary version of the North concept that flags census subdivisions according to their location in the north or south of Canada.

The series of tables that accompany this working paper show detailed demographic, social and economic characteristics for Canada as a whole, for the six major regions of Canada, and for individual provinces and territories. This paper includes a brief description of the tables and a guide to reading them.

The intent of the MIZ classification is to reveal previously hidden data detail and thereby help users address issues related to the non-census metropolitan area/census agglomeration (non-CMA/CA) areas of Canada. Readers are invited to review and use the data tables, which are based on this combined MIZ and north/south classification, and to provide feedback to the Geography Division concerning the utility of this classification to support their analysis and research of non-CMA/CA areas.

2. BACKGROUND

Research by Geography Division into methods of enhancing the portrayal of non-CMA/CA areas was prompted by related work on rural classifications that began almost a decade ago. In 1990, the Organization for Economic Co-operation and Development (OECD) established a rural development program. One aspect of this program was a rural indicators project, designed to improve the understanding of rural conditions by collecting internationally comparable data (OECD, 1994). As part of Canada's contribution to this initiative, the Research Sub-committee of the Interdepartmental Committee on Rural and Remote Canada (on which Statistics Canada has representation) produced a further breakdown to the rural definition at the census division or "county" level for Canada (ICRRC, 1995). Statistics Canada and the Geography Division recognised the benefit of differentiating non-CMA/CA Canada at the census subdivision or "municipal" level and developed the metropolitan influence zone (MIZ) concept using a methodology similar to that used to delineate CMAs and CAs. The first studies done using these metropolitan influence zones showed their potential to demonstrate the diversity of non-CMA/CA Canada (Howatson-Leo and Earl, 1995). Based on feedback received on that early work, more research was done to refine the MIZ classification and to provide users with data profiles from the 1991 Census by this classification. Since retrieval of these data profiles, the classification has been modified further, especially regarding the north concept (see section 6 of this working paper).

3. DEFINITIONS

It is important to understand Statistics Canada's use of the terms, urban, rural, census metropolitan area (CMA), census agglomeration (CA) and non-CMA/CA. Urban areas have specific criteria to define their limits. Rural areas are merely the residual of urban areas—that which is not urban is, by default, rural. Urban areas and CMA/CA are not synonymous and neither are rural areas and non-CMA/CA areas. Rural areas exist both inside and outside of CMAs and CAs. Within CMAs and CAs, the rural portion is labelled "rural fringe". Likewise, urban

areas exist in non-CMA/CA areas. Table 1 illustrates that urban and rural areas exist in both CMA/CA and non-CMA/CA areas.¹

Table 1. Urban and Rural Areas in Canada

| | | CANADA | |
|--------|--------------------------------|--------------------------|--------------|
| | | Urban | Rural |
| CANADA | Census metropolitan area (CMA) | Urban core, urban fringe | Rural fringe |
| | Census agglomeration (CA) | Urban core, urban fringe | Rural fringe |
| | Non-CMA/CA areas | Urban area | Rural area |

The basic building blocks for these geographic areas are **enumeration areas** (for urban area) and **census subdivisions** (for CMA/CA). A brief explanation of all of these terms is provided here. For a detailed definition for each of these concepts, consult the *1996 Census Dictionary* (Statistics Canada, 1997).

3.1 Enumeration Area

Enumeration areas (EA) are the geographic areas used to collect census data. All the territory of Canada is covered by EAs. Their boundaries respect all other standard geographic areas in the geography hierarchy. They range in physical size from very small units such as the land occupied by a large apartment building to very large tracts of unoccupied land in the northern parts of provinces and territories.

3.2 Census Subdivision

Census subdivision (CSD) is the general term applying to municipalities (as determined by provincial legislation) or their equivalent (for example, Indian reserves, Indian settlements and unorganised territories). In Newfoundland, Nova Scotia and British Columbia, the term also describes geographic areas that have been created by Statistics Canada in co-operation with the provinces, as equivalents to municipalities for the dissemination of statistical data.

3.3 Urban Area and Rural Area

Statistics Canada uses census data to identify areas with an 'urban character'. To be identified as **urban**, an area must have a population concentration of at least 1,000 persons and a population density of 400 persons per square kilometre (based on the previous census population count). All territory outside urban areas (UA) is considered **rural**. Rural areas (RA) include small towns, villages and other populated places with less than 1,000 population and less than 400 persons per square kilometre. Rural areas also include agricultural lands and remote and wilderness areas. Taken together, urban and rural areas cover all of Canada.

Census subdivisions (municipalities) are evaluated to see if they meet the population concentration and population density criteria to be considered an urban area. If urban municipalities are adjacent, they are grouped to form a single urban area. Likewise, enumeration areas that are adjacent to an urban municipality are included in the urban area if they meet the population density criteria described above. The resulting urban area may cross municipal and even provincial boundaries. Some municipalities are part urban area and part rural area.

Individual enumeration areas that meet the population density criterion may be grouped with adjacent enumeration areas that also meet the density criterion so that together they meet the minimum population threshold of 1,000 and thus form an urban area.

¹ See also Chart 1 (p. 5) in Statistics Canada's 1991 Census publication *Profile of Urban and Rural Areas – Part B* (Catalogue No. 93-340). Non-CMA/CA areas are essentially small towns and rural Canada.

3.4 Census Metropolitan Area/Census Agglomeration and Non-CMA/CA

Large urban municipalities exert a social and economic influence beyond their city limits. Statistics Canada established the concepts of census agglomeration and census metropolitan area to delimit the extent of the influence of large towns and cities on their surrounding municipalities. A **census agglomeration (CA)** is built around a central urban area with a minimum population of 10,000 at the previous census. Once the population of the central urban area reaches 100,000, the census agglomeration becomes a **census metropolitan area (CMA)**. Each CA or CMA is composed of one or more adjacent census subdivisions (CSDs) that qualify to be included based on certain criteria, principally labour force commuting flows. The criteria are described in detail in the *1996 Census Dictionary*.

Commuting flows are calculated using place of work data from the previous census. In general, a CSD qualifies to be included in the CA or CMA if 50% or more of the employed labour force living in the CSD work in the central urban area (in-flow or forward commuting). Similarly, a CSD qualifies to be included in the CA or CMA if at least 25% of the employed labour force that works in that CSD lives in the central urban area (out-flow or reverse commuting).

The **non-CMA/CA** areas cover all areas outside both census metropolitan areas and census agglomerations and include small urban areas and rural areas.

3.5 Urban Core, Urban Fringe and Rural Fringe

Within CMAs and CAs, central and peripheral urban areas are identified. The central urban area is the large urban area or **urban core** around which a CMA or CA is delineated. The **urban fringe** includes those peripheral urban areas within a CMA or CA that are not contiguous with the urban core. The **rural fringe** is all the territory within the CMA or CA that is not classified as urban core or urban fringe. Rural fringes may contain estate lots, agricultural, undeveloped and non-developable lands.

4. MIZ CATEGORIES

All census subdivisions (CSDs) in Canada can be classified into either CMA/CA (i.e., they are part of a census metropolitan area or census agglomeration) or one of four MIZ categories. The MIZ categories are (1) Strong MIZ, (2) Moderate MIZ, (3) Weak MIZ, and (4) No MIZ.

The strong, moderate and weak MIZ categories were determined using commuting flows of the employed labour force derived from 1991 Census place of work data. The calculation of the commuting flows for strong, moderate and weak MIZ differs somewhat from the calculation used for CSD inclusion in CMA/CAs. The percentages of the employed labour force living in a particular CSD in the non-CMA/CA area and working in the urban core of **any** CMA/CA are **combined** to determine the degree of influence that one or more CMA/CAs have on that CSD. This approach recognises the possibility of multiple centres of attraction.

The **strong MIZ** category includes CSDs with a commuting flow of 30% or more (at least 30% of the total employed labour force living in the CSD work in *any* CMA/CA urban core). The **moderate MIZ** category includes CSDs with a commuting flow percentage between 5% and 30% (at least 5% but less than 30% of the total employed labour force living in the municipality work in *any* CMA/CA urban core). The **weak MIZ** category includes CSDs with a commuting flow percentage more than 0% but less than 5% (more than 0% but less than 5% of the total employed labour force living in the municipality work in *any* CMA/CA urban core). The **No MIZ** category includes those CSDs with either fewer than 40 people in the resident labour force (where data suppression rules apply to protect respondents' confidentiality) or no people commuting to work in CMA/CA urban cores.

4.1 Identification of CSDs in the North and South

As a further refinement, the CMA/CAs and the CSDs in each of the four MIZ categories are classified according to whether they belong to either the North or the South. For Tables 1 through 34 (see list in Appendix 1), the north/south separation of CSDs is based on four indicators. These include (1) a climatic factor (the 6,000

heating degree-day² line), (2) an environmental factor (the southern limit of the boreal forest), (3) the political boundary between the provinces and the territories, and (4) a population accessibility measure.

The CSDs in the **south** include:

- (a) those CSDs in the ten provinces for which the total population within a radius of 75 kilometres from the CSD's population weighted representative point was equal to 100,000 or more (accessibility measure); or
- (b) those CSDs in the ten provinces in which 50% or more of their land area falls *south* of either the southern limit of the boreal forest or the normal annual 6,000 heating degree-day line (where normal = the average for 30 years).

The CSDs in the **north** include:

- (a) all CSDs in the territories,
- (b) those CSDs in the ten provinces for which the total population within a radius of 75 kilometres from the CSD's population weighted representative point was less than 100,000, and
- (c) each CSD in the ten provinces in which 50% or more of its land area falls *north* of both the southern limit of the boreal forest and the normal annual 6,000 heating degree-day line (where normal = the average for 30 years).

Table 2 shows the distribution of the 6,006 CSDs defined for the 1991 Census when the MIZ categories and the north/south designation are applied.

Table 2. Number of CSDs by CMA/CA, MIZ Categories and North/South Location, Canada, 1991 Census

| MIZ Category | Census Subdivisions | | | Definition |
|---------------|---------------------|------------|--------------|--|
| | Total | North | South | |
| CMA/CA | 1,051 | 20 | 1,031 | CSDs belong to a CMA or CA and have a very strong attraction to the CMA/CA (50% or more of the total employed labour force living in the CSD work in the urban core of a single CMA/CA). |
| Strong MIZ | 674 | 4 | 670 | CSDs with a commuting flow of 30% or more (at least 30% of the total employed labour force living in the CSD work in any CMA/CA urban core). |
| Moderate MIZ | 1,631 | 65 | 1,566 | CSDs with a commuting flow between 5% and 30% (at least 5% but less than 30% of the total employed labour force living in the municipality work in any CMA/CA urban core). |
| Weak MIZ | 1,097 | 189 | 908 | CSDs with a commuting flow more than 0% and less than 5% (more than 0% but less than 5% of the total employed labour force living in the municipality work in any CMA/CA urban core). |
| No MIZ* | 1,553 | 352 | 1,201 | All CSDs that have a small employed labour force (less than 40), as well as any CSD that has no commuters (0% of the total employed labour force living in the municipality work in any CMA/CA urban core). |
| Canada | 6,006 | 630 | 5,376 | Total number of CSDs in 1991. |

*Under the No MIZ category the 1,553 CSDs can be broken down as follows:

- 1,130 CSDs with a labour force less than 40 and no commuters.
- 210 CSDs with a labour force less than 40, with commuters.
- 213 CSDs with a labour force greater than or equal to 40, with no commuters.

² Heating degree-days measures the annual heating energy consumption required in order to maintain an optimum inside temperature of 21°C. This is calculated by adding the temperature difference between daily mean temperature and 18°C for those days in a given year when the mean temperature is below 18°C. The measurement is also based on a 30 year average in order to minimise annual fluctuations.

There are 3,000 heating degree-days for the warmest regions of Canada (the extreme south of Ontario and British Columbia). The line of 6,000 degree-days was chosen as the climatic indicator of the North/South division because areas north of the 6,000 degree-days line would require at least twice as much energy consumption to maintain the optimum inside temperature compared to the warmest regions of Canada.

For more detailed explanations of the methodology used to define the MIZ categories, see McNiven, Puderer and Janes (2000). Since the development of the data tables, further refinements to the North concept have been made and are described by McNiven and Puderer (2000). Refer also to section 6 in this working paper.

5. MIZ DATA TABLES

The MIZ data tables are intended to demonstrate the type of information that could be produced for future census dissemination products or custom requests to provide data for non-CMA/CA Canada.

The main data sources used to create the MIZ categories and the resulting MIZ data tables were: 1991 CSDs (6,006 CSDs), preliminary 1996 CMAs and CAs (see Statistics Canada, 1993, 1994, 1995), 1991 place of work data, and 1991 Census Profile Data (100% and 20% sample data).

The 1991 place of work data used to classify the 1991 CSDs by MIZ category were originally extracted to update the CMAs and CAs for the 1996 Census. The CSDs flagged as CMA or CA components reflect the preliminary 1996 Census CMAs and CAs. **Therefore, CMA/CA data in these tables are not in every case comparable to either 1991 or 1996 Census data by CMA or CA.**

The 1991 Census Profile Data are divided into two parts. Part A, referred to as **100% data**, provides basic demographic, mother tongue, dwelling, household and family data collected from **all** households, that is, on a 100% basis. Part B, referred to as **20% sample data**, provides data collected from a 20% sample of households (but weighted to 100%) on characteristics such as home language, ethnic origin, place of birth, schooling, religion, labour force activity, housing costs and income.

Tables produced from the Part A Profile (100% data) show population counts by age and sex, by marital status, and by mother tongue. They also show dwelling counts by type and tenure, households by size, and families by size, structure and the presence of never-married sons and daughters. Tables produced from the Part B Profile (20% sample data) show population counts for characteristics such as home language, knowledge of languages, religion, ethnic origin, place of birth, period of immigration, mobility status, fertility, highest level of schooling, labour force activity, occupation, and industry. They also show dwelling counts by need for repair, period of construction, as well as average housing costs for households, and income distribution for individuals, households and families.

The data for each geographic area are displayed in the table columns. The data variables are identified down the sides of the table (the "stub"). The data have been grouped in the stub into blocks by universe (i.e., population, dwellings, households and families). For each universe, data are shown in relation to a number of different characteristics. For example, in the 100% data tables, population is first shown by age and sex, then by marital status and finally by mother tongue. In the 20% sample data tables, population is shown first by home language, then by knowledge of official languages, next by knowledge of non-official languages, by religion, by ethnic origin, and so on. The CMA/CA, MIZ categories and North/South designation run across the top of the page.

The figures in all tables have been subjected to a confidentiality procedure known as "random rounding" to prevent the possibility of associating statistical data with any identifiable individual. Under this method, all figures that are greater than 10 are randomly rounded either up or down to a multiple of "5" and figures that are 10 or less are randomly rounded to "0" or "10". All totals are calculated from full figures and rounded independently; consequently, totals may not equal the sum of their components. Production of these tables required special processing. As such, the data may not be directly comparable to standard published census data.

Appendix 1 lists the 35 file names and titles of the tables accompanying this working paper. There are two index tables that show the MIZ category and north/south location of each 1991 CSD (Tables 1 and 2). Tables 3 through 34 show selected characteristics from the 1991 Census tabulated by the MIZ categories and north/south location. Table 35 is a third index table showing MIZ and north/south location applied to 1996 CSDs.

Appendix 2 explains how to read the data tables from the 1991 Census Profile Data according to each MIZ category.

6. RECENT DEVELOPMENTS AND FUTURE PLANS

This working paper has described the concepts of MIZ and North as they relate to the 1991 Census data tables included with this paper. However, while this paper and 1991 Census database extractions were being prepared, feedback from the user community continued and led to the development of further refinements to the North concept. Given the lead-time required to produce the data profiles, it was not possible to regenerate the data tables to reflect these refinements. However, it was possible to tabulate the distribution of CSDs to illustrate and explain the revisions. These are briefly presented below.

6.1 Revised Definition of the North Concept

Table 3 shows the distribution of CSDs from the 1991 Census by CMA/CA, MIZ category and north/south location for each province and territory. It was observed that census subdivision shape and size significantly affected the definition of the north based on the four criteria used to include or exclude CSDs in the north or south. Thus, a revised approach that defines a **line** to separate north and south independent of existing statistical units has replaced the CSD polygon-based approach. The line is derived from the average of 16 factors (including social, biotic, economic and climatic indicators) instead of the four factors used previously. As well, north and south transition lines have been added that are based on one standard deviation from the mean north–south line. As a result, any geographic unit can be assigned to one of four zones—north, north transition, south transition, and south—based on the location of its population-weighted representative point³ relative to the mean and north and south transition lines. Table 4 shows the revised distribution of CSDs from the 1991 Census by CMA/CA and MIZ category and their location in the north, north transition zone, south transition zone, or south.

Table 3. Number of CSDs by CMA/CA, MIZ Categories and Preliminary North/South Location, 1991 Census

| Province/Territory | CSDs (1991) | Number of Census Subdivisions by CMA/CA, MIZ Category and Preliminary North/South Location | | | | | | | | | | | | | | |
|-----------------------|--------------|--|-----------|--------------|------------|----------|------------|--------------|-----------|--------------|--------------|------------|------------|--------------|------------|--------------|
| | | CMA/CA | | | Strong MIZ | | | Moderate MIZ | | | Weak MIZ | | | No MIZ | | |
| | | Total | North | South | Total | North | South | Total | North | South | Total | North | South | Total | North | South |
| Newfoundland | 404 | 38 | 2 | 36 | 22 | 0 | 22 | 151 | 1 | 150 | 83 | 9 | 74 | 110 | 14 | 96 |
| Prince Edward Island | 126 | 39 | 0 | 39 | 27 | 0 | 27 | 44 | 0 | 44 | 12 | 0 | 12 | 4 | 0 | 4 |
| Nova Scotia | 118 | 35 | 0 | 35 | 5 | 0 | 5 | 18 | 0 | 18 | 44 | 0 | 44 | 16 | 0 | 16 |
| New Brunswick | 287 | 65 | 0 | 65 | 34 | 0 | 34 | 91 | 0 | 91 | 69 | 0 | 69 | 28 | 0 | 28 |
| Quebec | 1,637 | 323 | 4 | 319 | 281 | 1 | 280 | 617 | 10 | 607 | 186 | 25 | 161 | 230 | 58 | 172 |
| Ontario | 951 | 222 | 0 | 222 | 201 | 0 | 201 | 295 | 12 | 283 | 102 | 24 | 78 | 131 | 47 | 84 |
| Manitoba | 293 | 18 | 1 | 17 | 13 | 0 | 13 | 70 | 7 | 63 | 109 | 30 | 79 | 83 | 37 | 46 |
| Saskatchewan | 953 | 61 | 0 | 61 | 36 | 0 | 36 | 207 | 13 | 194 | 234 | 35 | 199 | 415 | 64 | 351 |
| Alberta | 438 | 63 | 8 | 55 | 39 | 1 | 38 | 69 | 6 | 63 | 132 | 32 | 100 | 135 | 51 | 84 |
| British Columbia | 691 | 184 | 2 | 182 | 16 | 2 | 14 | 56 | 3 | 53 | 97 | 5 | 92 | 338 | 18 | 320 |
| Yukon Territory | 36 | 2 | 2 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 0 | 21 | 21 | 0 |
| Northwest Territories | 72 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 0 | 42 | 42 | 0 |
| Canada | 6,006 | 1,051 | 20 | 1,031 | 674 | 4 | 670 | 1,631 | 65 | 1,566 | 1,097 | 189 | 908 | 1,553 | 352 | 1,201 |

³ Where a geographic unit has zero population, the geographic centroid is used.

Table 4. Number of CSDs by CMA/CA, MIZ Categories and Location in North, North Transition, South Transition, or South, 1991 Census

| Prov./ Terr. | CSDs (1991) | Number of Census Subdivisions by CMA/CA, MIZ Category and North/South Location (where T = Total, N = North, NT = North Transition, ST = South Transition, S = South) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------------|---|---|----|-----|-----|------------|---|----|----|-----|--------------|---|----|-----|-------|----------|----|----|-----|-----|--------|-----|-----|-----|-----|
| | | CMA/CA | | | | | Strong MIZ | | | | | Moderate MIZ | | | | | Weak MIZ | | | | | No MIZ | | | | |
| | | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S |
| Nfld. | 404 | 38 | 2 | 0 | 0 | 36 | 22 | 0 | 0 | 0 | 22 | 151 | 0 | 1 | 11 | 139 | 83 | 8 | 6 | 16 | 53 | 110 | 7 | 14 | 21 | 68 |
| P.E.I. | 126 | 39 | 0 | 0 | 0 | 39 | 27 | 0 | 0 | 0 | 27 | 44 | 0 | 0 | 0 | 44 | 12 | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 0 | 4 |
| N.S. | 118 | 35 | 0 | 0 | 0 | 35 | 5 | 0 | 0 | 0 | 5 | 18 | 0 | 0 | 0 | 18 | 44 | 0 | 0 | 0 | 44 | 16 | 0 | 0 | 0 | 16 |
| N.B. | 287 | 65 | 0 | 0 | 0 | 65 | 34 | 0 | 0 | 0 | 34 | 91 | 0 | 0 | 0 | 91 | 69 | 0 | 0 | 0 | 69 | 28 | 0 | 0 | 0 | 28 |
| Que. | 1,637 | 323 | 0 | 0 | 38 | 285 | 281 | 0 | 0 | 27 | 254 | 617 | 0 | 5 | 56 | 556 | 186 | 14 | 9 | 35 | 128 | 230 | 24 | 14 | 42 | 150 |
| Ont. | 951 | 222 | 0 | 0 | 4 | 218 | 201 | 0 | 0 | 0 | 201 | 295 | 1 | 0 | 15 | 279 | 102 | 4 | 8 | 18 | 72 | 131 | 22 | 11 | 23 | 75 |
| Man. | 293 | 18 | 1 | 0 | 1 | 16 | 13 | 0 | 0 | 2 | 11 | 70 | 0 | 0 | 16 | 54 | 109 | 11 | 12 | 37 | 49 | 83 | 22 | 10 | 18 | 33 |
| Sask. | 953 | 61 | 0 | 0 | 5 | 56 | 36 | 0 | 0 | 4 | 32 | 207 | 0 | 0 | 44 | 163 | 234 | 4 | 14 | 62 | 154 | 415 | 7 | 35 | 78 | 295 |
| Alta. | 438 | 63 | 0 | 1 | 44 | 18 | 39 | 0 | 0 | 12 | 27 | 69 | 0 | 2 | 24 | 43 | 132 | 2 | 25 | 28 | 77 | 135 | 1 | 25 | 49 | 60 |
| B.C. | 691 | 184 | 0 | 2 | 26 | 156 | 16 | 0 | 3 | 3 | 10 | 56 | 0 | 5 | 10 | 41 | 97 | 3 | 12 | 19 | 63 | 338 | 7 | 26 | 62 | 243 |
| Y.T. | 36 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 11 | 10 | 0 | 0 |
| N.W.T. | 72 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 0 | 0 | 0 | 42 | 42 | 0 | 0 | 0 |
| Canada | 6,006 | 1,051 | 4 | 4 | 118 | 924 | 674 | 0 | 3 | 48 | 623 | 1,631 | 8 | 19 | 176 | 1,428 | 1,097 | 75 | 86 | 215 | 721 | 1,553 | 143 | 145 | 293 | 972 |

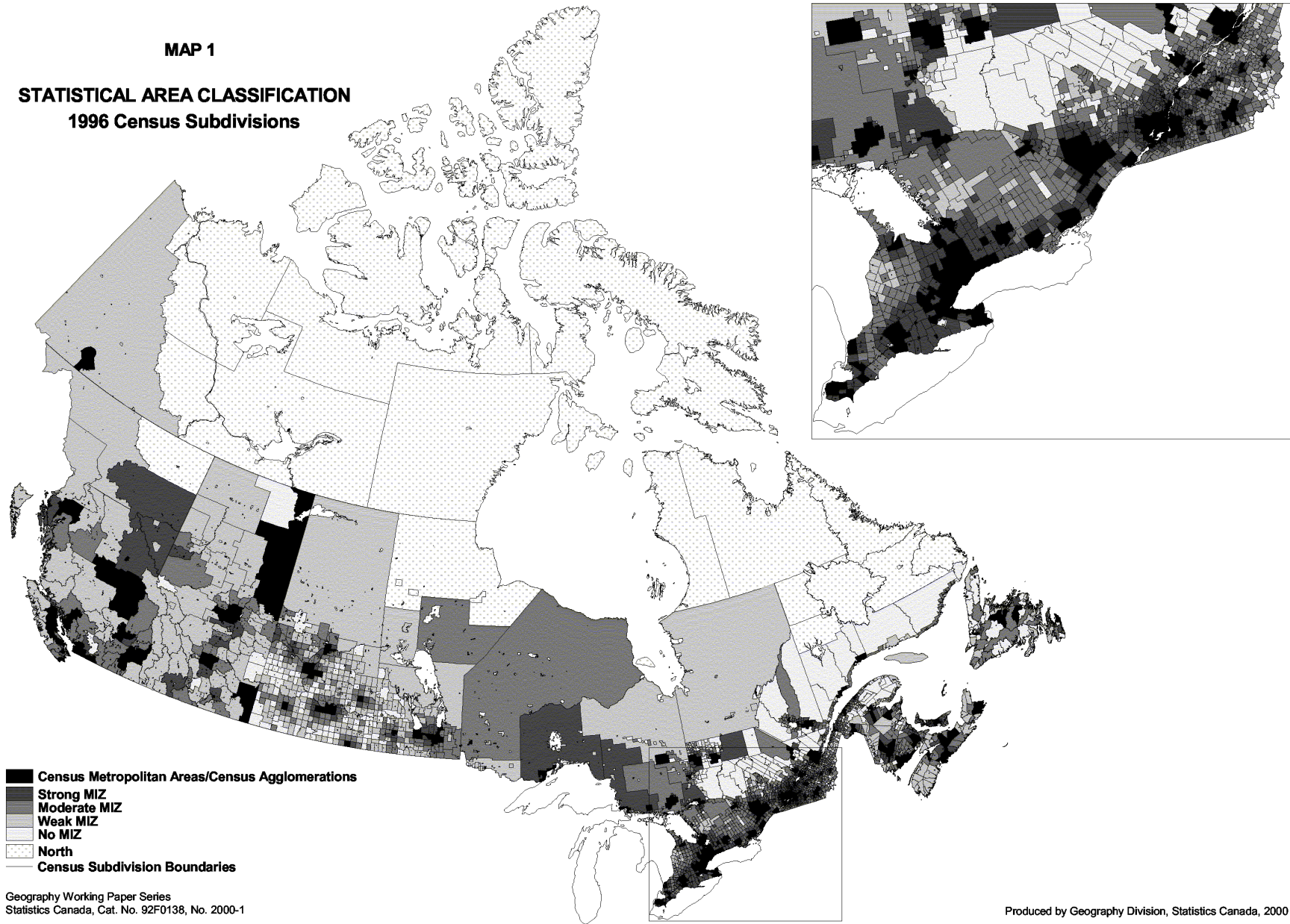
This north–south classification has now been applied to 1996 census subdivisions and Table 5 shows a summary of the results. For a complete list of 1996 CSDs flagged to show their classification by CMA/CA or MIZ category and their location in the north, north transition, south transition or south, see Table 35 in the accompanying data tables. This information is also displayed in Map 1. Further details about the derivation of this revised north–south classification are available (McNiven and Puderer, 2000).

Table 5. Number of CSDs by CMA/CA, MIZ Categories and Location in North, North Transition, South Transition, or South, 1996 Census

| Prov./ Terr. | CSDs (1996) | Number of Census Subdivisions by CMA/CA, MIZ Category and North/South Location (where T = Total, N = North, NT = North Transition, ST = South Transition, S = South) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------------|---|----|----|-----|-----|------------|---|----|-----|-----|--------------|---|----|-----|-------|----------|----|----|-----|-----|--------|-----|-----|-----|-----|
| | | CMA/CA | | | | | Strong MIZ | | | | | Moderate MIZ | | | | | Weak MIZ | | | | | No MIZ | | | | |
| | | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S | T | N | NT | ST | S |
| Nfld. | 381 | 32 | 2 | 0 | 17 | 13 | 19 | 0 | 0 | 9 | 10 | 153 | 2 | 3 | 57 | 91 | 73 | 5 | 8 | 22 | 38 | 104 | 5 | 17 | 37 | 45 |
| P.E.I. | 113 | 24 | 0 | 0 | 0 | 24 | 29 | 0 | 0 | 0 | 29 | 44 | 0 | 0 | 0 | 44 | 12 | 0 | 0 | 0 | 12 | 4 | 0 | 0 | 0 | 4 |
| N.S. | 110 | 28 | 0 | 0 | 0 | 28 | 3 | 0 | 0 | 0 | 3 | 20 | 0 | 0 | 0 | 20 | 42 | 0 | 0 | 0 | 42 | 17 | 0 | 0 | 0 | 17 |
| N.B. | 283 | 66 | 0 | 0 | 0 | 66 | 31 | 0 | 0 | 0 | 31 | 93 | 0 | 0 | 0 | 93 | 66 | 0 | 0 | 0 | 66 | 27 | 0 | 0 | 0 | 27 |
| Que. | 1,599 | 312 | 0 | 0 | 50 | 262 | 272 | 0 | 0 | 36 | 236 | 588 | 0 | 6 | 83 | 499 | 190 | 14 | 10 | 44 | 122 | 237 | 31 | 17 | 68 | 121 |
| Ont. | 947 | 219 | 0 | 0 | 10 | 209 | 196 | 0 | 0 | 4 | 192 | 270 | 1 | 1 | 14 | 254 | 119 | 3 | 7 | 29 | 80 | 143 | 21 | 14 | 44 | 64 |
| Man. | 298 | 19 | 1 | 0 | 5 | 13 | 17 | 0 | 0 | 9 | 8 | 69 | 0 | 2 | 24 | 43 | 105 | 8 | 12 | 45 | 40 | 88 | 18 | 16 | 29 | 25 |
| Sask. | 970 | 61 | 0 | 0 | 28 | 33 | 54 | 0 | 0 | 24 | 30 | 198 | 1 | 1 | 86 | 110 | 226 | 3 | 14 | 97 | 112 | 431 | 7 | 41 | 131 | 252 |
| Alta. | 467 | 94 | 13 | 12 | 54 | 15 | 34 | 0 | 0 | 20 | 14 | 79 | 0 | 6 | 28 | 45 | 128 | 24 | 44 | 60 | 132 | 28 | 66 | 66 | 38 | |
| B.C. | 713 | 188 | 0 | 2 | 36 | 150 | 14 | 0 | 4 | 3 | 7 | 58 | 0 | 3 | 10 | 45 | 96 | 3 | 12 | 25 | 56 | 357 | 3 | 31 | 72 | 251 |
| Y.T. | 35 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 12 | 5 | 7 | 0 | 0 | 17 | 6 | 11 | 0 | 0 |
| N.W.T. | 68 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 0 | 38 | 38 | 0 | 0 | 0 |
| Canada | 5,984 | 1,049 | 17 | 19 | 200 | 813 | 671 | 2 | 4 | 105 | 560 | 1,573 | 4 | 23 | 302 | 1,244 | 1,096 | 68 | 94 | 306 | 628 | 1,595 | 129 | 175 | 447 | 844 |

MAP 1

**STATISTICAL AREA CLASSIFICATION
1996 Census Subdivisions**



6.2 Statistical Area Classification for 2001 Census

It is Statistics Canada's intention to disseminate 2001 Census data using a statistical area classification (SAC) that is a blend of CMA/CA, MIZ categories and North/South. Tables 6 and 7 use 1996 Census data to show the type of standard output tables that are planned for 2001. The sums of the data represented by the light grey columns in Table 5 correspond to the CMA/CA and MIZ categories shown in the light grey columns in Table 6. Similarly, the sum of all the North columns shaded dark grey in Table 5 equals the North category shown in the dark grey column in Table 6. Nevertheless, users can obtain data on a custom request basis by the more detailed statistical area classification shown in Table 5.⁴ Table 7 shows the 1996 Census population counts by province and territory for the SAC categories.

Table 6. Number of CSDs, Showing the Statistical Area Classification, for Canada, Provinces and Territories, 1996 Census

| Province/Territory | Total CSDs | Number of CSDs by the Statistical Area Classification, 1996 Census | | | | | |
|-----------------------|--------------|--|------------|--------------|--------------|--------------|------------|
| | | CMA/CA | Strong MIZ | Moderate MIZ | Weak MIZ | No MIZ | North |
| Newfoundland | 381 | 32 | 19 | 151 | 68 | 99 | 12 |
| Prince Edward Island | 113 | 24 | 29 | 44 | 12 | 4 | 0 |
| Nova Scotia | 110 | 28 | 3 | 20 | 42 | 17 | 0 |
| New Brunswick | 283 | 66 | 31 | 93 | 66 | 27 | 0 |
| Quebec | 1,599 | 312 | 272 | 588 | 176 | 206 | 45 |
| Ontario | 947 | 219 | 196 | 269 | 116 | 122 | 25 |
| Manitoba | 298 | 19 | 17 | 69 | 97 | 70 | 26 |
| Saskatchewan | 970 | 61 | 54 | 197 | 223 | 424 | 11 |
| Alberta | 467 | 94 | 34 | 79 | 128 | 132 | 0 |
| British Columbia | 713 | 188 | 14 | 58 | 93 | 354 | 6 |
| Yukon Territory | 35 | 5 | 0 | 1 | 7 | 11 | 11 |
| Northwest Territories | 68 | 1 | 0 | 0 | 0 | 0 | 67 |
| Canada | 5,984 | 1,049 | 669 | 1,569 | 1,028 | 1,466 | 203 |

Table 7. Population Counts, Showing the Statistical Area Classification, for Canada, Provinces and Territories, 1996 Census

| Province/Territory | Total Population | Population by the Statistical Area Classification, 1996 Census | | | | | |
|-----------------------|-------------------|--|------------------|------------------|------------------|----------------|----------------|
| | | CMA/CA | Strong MIZ | Moderate MIZ | Weak MIZ | No MIZ | North |
| Newfoundland | 551,792 | 244,868 | 19,947 | 139,919 | 107,160 | 24,936 | 14,962 |
| Prince Edward Island | 134,557 | 73,225 | 18,966 | 29,713 | 11,925 | 728 | 0 |
| Nova Scotia | 909,282 | 557,614 | 29,777 | 102,422 | 214,691 | 4,778 | 0 |
| New Brunswick | 738,133 | 380,149 | 51,353 | 150,380 | 140,113 | 16,138 | 0 |
| Quebec | 7,138,795 | 5,543,060 | 422,875 | 802,485 | 300,757 | 49,492 | 20,126 |
| Ontario | 10,753,573 | 9,157,435 | 756,992 | 538,656 | 265,690 | 23,980 | 10,820 |
| Manitoba | 1,113,898 | 742,560 | 45,593 | 115,127 | 161,524 | 33,119 | 15,975 |
| Saskatchewan | 990,237 | 561,672 | 26,013 | 102,072 | 200,497 | 96,316 | 3,667 |
| Alberta | 2,696,826 | 2,002,352 | 115,974 | 169,300 | 377,669 | 31,531 | 0 |
| British Columbia | 3,724,500 | 3,147,837 | 77,210 | 212,996 | 250,753 | 29,742 | 5,962 |
| Yukon Territory | 30,766 | 21,808 | 0 | 196 | 4,802 | 402 | 3,558 |
| Northwest Territories | 64,402 | 17,275 | 0 | 0 | 0 | 0 | 47,127 |
| Canada | 28,846,761 | 22,407,600 | 1,564,700 | 2,361,144 | 2,024,564 | 302,285 | 186,468 |

⁴ A variable approach for handling geographic entities is also being researched and results will be published in a future Geography Working Paper. When preparing a database query, the variable approach would enable users to create more specific cross-tabulations that could, for example, combine a CSD type and a specific MIZ category with income and education criteria. It would also make it simpler to obtain data sub-divided between urban and rural in both CMA/CA and non-CMA/CA areas (as demonstrated in Table 1) or to extract MIZ categories for the north if desired.

7. USER FEEDBACK

Geography Division would appreciate receiving feedback from users with comments and suggestions on the utility of this approach, the accompanying tables, the concepts and/or the statistical area classification in general. For example:

- Does this approach meet your needs?
- Would this differentiation strategy be appropriate for your organisation, given that one of the objectives is to create greater consistency in definition and application?
- Would you use this classification?
- How would it benefit you?
- What changes or clarifications would you like?
- What data content would you like?

Our intent is to provide a new approach that would assist a large number of users in gaining a better understanding of the non-CMA/CA population of Canada.

Please send your comments to:

GEO-Help
Geography Division
Statistics Canada
Jean Talon Building, 3rd floor
Ottawa, Ontario K1A 0T6

E-mail: geohelp@statcan.ca

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Appendix 1

FILENAME AND TABLE TITLES

Note: This appendix lists the filenames and table titles. The files are available from the Statistics Canada website at www.statcan.ca under Products and Services, Downloadable research papers, Geography working paper series.

| Filename | Table Title |
|--------------|---|
| T01CSD91.xls | Table 1. Census Subdivisions, showing Population, MIZ Category and North/South Location, 1991 Census (CSDs sorted by Province/Territory and Standard Geographical Classification Code) |
| T02CSD91.xls | Table 2. Census Subdivisions, showing Population, MIZ Category and North/South Location, 1991 Census (CSDs sorted by Province/Territory, North/South Location, MIZ Category and SGC Code) |
| T03CASUM.xls | Table 3. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Canada Summary |
| T04CASUM.xls | Table 4. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Canada Summary |
| T05ATSUM.xls | Table 5. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Atlantic Provinces Summary |
| T06ATSUM.xls | Table 6. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Atlantic Provinces Summary |
| T07NFLD.xls | Table 7. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Newfoundland |
| T08NFLD.xls | Table 8. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Newfoundland |
| T09PEI.xls | Table 9. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Prince Edward Island |
| T10PEI.xls | Table 10. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Prince Edward Island |
| T11NS.xls | Table 11. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Nova Scotia |
| T12NS.xls | Table 12. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Nova Scotia |
| T13NB.xls | Table 13. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. New Brunswick |
| T14NB.xls | Table 14. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. New Brunswick |
| T15QUE.xls | Table 15. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Quebec |
| T16QUE.xls | Table 16. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Quebec |
| T17ONT.xls | Table 17. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Ontario |
| T18ONT.xls | Table 18. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Ontario |
| T19PRSUM.xls | Table 19. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Prairie Provinces Summary |
| T20PRSUM.xls | Table 20. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Prairie Provinces Summary |
| T21MAN.xls | Table 21. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Manitoba |
| T22MAN.xls | Table 22. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Manitoba |
| T23SASK.xls | Table 23. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Saskatchewan |
| T24SASK.xls | Table 24. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Saskatchewan |

| Filename | Table Title |
|-----------------|--|
| T25ALTA.xls | Table 25. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Alberta |
| T26ALTA.xls | Table 26. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Alberta |
| T27BC.xls | Table 27. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. British Columbia |
| T28BC.xls | Table 28. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. British Columbia |
| T29TRSUM.xls | Table 29. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Territories Summary |
| T30TRSUM.xls | Table 30. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Territories Summary |
| T31YUK.xls | Table 31. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Yukon Territory |
| T32YUK.xls | Table 32. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Yukon Territory |
| T33NWT.xls | Table 33. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 100% Data. Northwest Territories |
| T34NWT.xls | Table 34. Selected Characteristics for MIZ Categories and North/South Location, 1991 Census - 20% Sample Data. Northwest Territories |
| T35CSD96.xls | Table 35. Census Subdivisions, showing Population, MIZ Category and North/North Transition/South Transition/South Location, 1996 Census (CSDs sorted by Province/Territory and Standard Geographical Classification Code) |

READING THE MIZ TABLES

This appendix gives selected examples from the CSD index tables (Tables 1 and 2 – 1991 Census and Table 35 – 1996 Census) and the 1991 Census Profile Data tables (Tables 3 – 34) presented by MIZ categories. For the profile data tables, it is important to remember that for each data variable, the data value for each MIZ category is the sum of data for all the CSDs meeting the specified criteria for that MIZ group (see section 4).

Tables 1 and 2 list the 6,006 census subdivisions from the 1991 Census. For each census subdivision, the tables show the SGC code, CSD name, total 1991 population and the CSD's classification by MIZ category and location in the North or South (based on four factors). In Table 1, the 6,006 CSDs are sorted by SGC code (a 7-digit code that uniquely identifies each census subdivision). In Table 2, the 6,006 CSDs are sorted by province and territory, location (North/South) and MIZ category.

The following selection of data from Table 2 shows some of the municipalities found in each MIZ category for the province of Newfoundland. In Newfoundland, there are actually 22 municipalities (CSDs) that fall into the Strong MIZ category and they are all located in the south part of the province. Only 4 of those 22 Strong MIZ municipalities are shown in this example.

Example of Data from Table 2

| N/S Location | MIZ Category | SGC Code | Census Subdivision Name | 1991 CSDPOP | |
|---------------------|--------------|----------|--------------------------|----------------------|--------|
| NEWFOUNDLAND | | | | | |
| North | CMA/CA | 1010032 | Labrador City | 9,061 | |
| | | 1010034 | Wabush | 2,331 | |
| | Moderate MIZ | 1010002 | L'Anse au Loup | 630 | |
| | Weak MIZ | 1010008 | Division No. 10, Subd. B | 636 | |
| | | 1010009 | Port Hope Simpson | 614 | |
| | No MIZ | 1010001 | Division No. 10, Subd. A | 101 | |
| | | 1010003 | Red Bay | 288 | |
| | South | CMA/CA | 1001485 | Conception Bay South | 17,590 |
| | | | 1001502 | Portugal Cove | 2,726 |
| | | | 1001505 | Pouch Cove | 1,976 |
| Strong MIZ | | 1001124 | Division No. 1, Subd. U | 1,651 | |
| | | 1001126 | Cape Broyle | 693 | |
| | | 1001131 | Renews-Cappahayden | 551 | |
| | | 1001136 | Fermeuse | 505 | |
| Moderate MIZ | | 1001105 | Portugal Cove South | 341 | |
| | | 1001113 | Trepassey | 1,198 | |
| | | 1001155 | Division No. 1, Subd. W | 536 | |
| Weak MIZ | | 1001203 | Division No. 1, Subd. X | 545 | |
| | | 1001207 | Colinet | 232 | |
| | | 1001321 | Division No. 1, Subd. F | 753 | |
| | | 1001332 | Winterton | 667 | |
| No MIZ | | 1001101 | Division No. 1, Subd. V | 180 | |
| | | 1001109 | Biscay Bay | 97 | |
| | | 1001120 | St. Shott's | 232 | |

Tables 3 through 34 contain 1991 Census Profile Data, showing data characteristics from either the 100% data or the 20% sample data, according to each MIZ category and preliminary 1996 Census CMAs and CAs. To assist in reading Tables 3 through 34, the following examples show selected rows and columns from some 100% data and 20% sample data tables together with a brief narrative explaining how to interpret highlighted data.

The highlighted number from Table 3 shows that there are 16,145 husband-wife families living in No MIZ CSDs. These are CSDs that have a commuting flow percentage of 0% or fewer than 40 persons in the employed labour force and are located in the North part of the country.

Example of Selected Characteristics from Table 3 – Canada, 1991 Census (100% Data)

| Canada Summary | | | | | | | | | | |
|-------------------------------|--|--------------|---------|---------|----------|---------|---------|--------|--------|--------|
| No. | Characteristics | Moderate MIZ | | | Weak MIZ | | | No MIZ | | |
| | | North | South | Total | North | South | Total | North | South | Total |
| FAMILY CHARACTERISTICS | | | | | | | | | | |
| 100 | Total husband-wife families (5) | 21,785 | 564,210 | 585,995 | 67,890 | 406,655 | 474,550 | 16,145 | 57,100 | 73,245 |
| 101 | Total families of now-married couples | 18,400 | 504,120 | 522,515 | 56,800 | 365,005 | 421,805 | 13,020 | 51,200 | 64,220 |
| 102 | Total without sons and daughters at home | 6,310 | 201,605 | 207,915 | 16,660 | 142,365 | 159,020 | 2,910 | 20,605 | 23,515 |

The highlighted number from Table 5 shows that there are 430,250 occupied private dwellings in CSDs that are in CMAs and CAs located in the South part of the Atlantic Provinces.

Example of Selected Characteristics from Table 5 – Atlantic Provinces Summary, 1991 Census (100% Data)

| Atlantic Provinces Summary | | | | | | | | | | |
|---------------------------------|--|--------|---------|---------|------------|--------|--------|--------------|---------|---------|
| No. | Characteristics | CMA/CA | | | Strong MIZ | | | Moderate MIZ | | |
| | | North | South | Total | North | South | Total | North | South | Total |
| DWELLING CHARACTERISTICS | | | | | | | | | | |
| 72 | Total number of occupied private dwellings | 3,375 | 430,250 | 433,630 | ... | 44,030 | 44,030 | 175 | 134,890 | 135,070 |
| 73 | Owned | 2,630 | 284,645 | 287,275 | ... | 38,090 | 38,085 | 175 | 112,715 | 112,890 |
| 74 | Rented | 750 | 144,950 | 145,700 | ... | 5,760 | 5,760 | 0 | 22,030 | 22,035 |

The highlighted number from Table 6 shows that the total population (non-institutional) of all CSDs located within CMAs or CAs is 1,214,630 in the Atlantic Provinces. It also shows that there are 405,625 people living in Moderate MIZ CSDs (CSDs that have a commuting flow percentage of at least 5% but less than 30%) located in the South part of the Atlantic Provinces, who speak one home language.

Example of Selected Characteristics from Table 6 – Atlantic Provinces Summary, 1991 Census (20% Sample Data)

| Atlantic Provinces Summary | | | | | | | | | | |
|-----------------------------------|---|--------|-----------|-----------|------------|---------|---------|--------------|---------|---------|
| No. | Characteristics | CMA/CA | | | Strong MIZ | | | Moderate MIZ | | |
| | | North | South | Total | North | South | Total | North | South | Total |
| POPULATION CHARACTERISTICS | | | | | | | | | | |
| 1 | Total population (non-institutional) (1) | 11,390 | 1,203,240 | 1,214,630 | ... | 132,130 | 132,130 | 630 | 407,305 | 407,940 |
| by home language | | | | | | | | | | |
| 2 | Single responses | 11,370 | 1,197,005 | 1,208,370 | ... | 131,520 | 131,520 | 630 | 405,625 | 406,250 |
| 3 | English | 10,885 | 1,106,740 | 1,117,620 | ... | 99,010 | 99,015 | 630 | 346,760 | 347,390 |

The highlighted number from Table 18 shows that there are 7,922,920 people who are 15 years of age and older in Ontario. It also shows that there are 1,875 people living in No MIZ CSDs (CSDs with commuting flow percentages of 0% or fewer than 40 persons in the employed labour force) located in the South part of Ontario, that are 15 years and over and have less than a grade 9 education.

Example of Selected Characteristics from Table 18 – Ontario, 1991 Census (20% Sample Data)

| Ontario | | | | | | | | | | |
|--------------------------------------|---|----------|---------|---------|--------|-------|--------|---------|-----------|-----------|
| No. | Characteristics | Weak MIZ | | | No MIZ | | | Ontario | | |
| | | North | South | Total | North | South | Total | North | South | Total |
| 187 | Total population 15 years and over | 39,680 | 134,855 | 174,535 | 10,815 | 8,930 | 19,745 | 69,945 | 7,852,980 | 7,922,920 |
| by highest level of schooling | | | | | | | | | | |
| 188 | Less than grade 9 (18) | 7,400 | 19,045 | 26,450 | 4,295 | 1,875 | 6,170 | 14,970 | 896,995 | 911,965 |

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