

The Canadian Urban Environmental Health Research Consortium

Canue Metadata - Neighborhood Canadian Marginalization Index

2021-02-15

DATA SET INFORMATION

Dataset Code: CMG_A_YY

Description:

CAN-Marg is multifaceted, allowing researchers and policy and program analysts to explore multiple dimensions of marginalization in urban and rural Canada. The index was developed using a theoreticalframework based on previous work on deprivation and marginalization. It was then empirically derived using principal components factor analysis. It has been demonstrated to be stable across time periods and across different geographic areas (e.g. cities and rural areas). It has also been demonstrated to be associated with health outcomes including hypertension, depression, youth smoking, alcohol consumption, injuries, body mass index and infant birthweight.Canadian Marginalization Index (CAN-Marg) data for 1991, 1996, 2001 and 2006 for dissemination areas are freely available in Excel format (CAN-Marg_EA_1991.xls; CAN-Marg_EA_1996.xls; CAN-Marg_DA_2001.xls; and CAN-MargDA_2006.xls). CANUE staff downloaded Excel files for 2001 and 2006 on March 15, 2018; data for 1991 and 1996 were downloaded on August 21, 2018. ArcGIS was used by CANUE staff to associate the single link DMTI Spatial postal codes to the Statistics Canada dissemination or enumeration areas boundry files, and then join the CAN-Marg data to the postal codes, using dissemination or enumeration area unique identifiers. There may be many postal codes within a single dissemination area - these will have the same index values and may not be suitable for summation, etc. Please refer to the CAN-Marg documentation, listed below under Supporting Documentation.

Keywords: socioeconomic status|SES|marginalization|census|dissemination area

Place Keywords: Canada|national

GEOSPATIAL REFERENCE

Upper Left Corner: 65.14N, -141.02W **Lower Right Corner:** 41.68N, -52.62W

Coordinate System: GCS_WGS84 - EPSG:4326 Geometry Type: POINT - Units: Decimal Degree

Geometry Data Source: DMTI Spatial Inc. (postal codes)

QUALITY ASSESSMENT

QA/QC Procedures:

CANUE did not assess the quality of the CAN-Marg data. Users should review the supporting documentation and any recommended citations.

Geographic Coordinate Positional Accuracy:

These metrics are linked to the corresponding annual postal codes files for mapping and analysis purposes. Refer to the postal code metadata file in Supporting Documentation for more information.

Vertical Positional Accuracy: N/A

Attribute Accuracy: N/A

Data Validity: NoData = -9999 (for numeric fields) - NoData=null (for category fields) - Data insufficient to calculate value = -1111

Associated Files: N/A

Data Comment:

There may be many postal codes within a single dissemination area - these will have the same index values and may not be suitable for summation.

DATA SOURCE

Data Source

Centre for Urban Health Solutions, St. Michaels Hospital, Toronto, ON (CAN-Marg data)|DMTI Spatial Inc (postal codes)|Statistics Canada (enumeration/dissemination area boundary file). See supporting documentation.

Spatial Resolution: Dissemination/Enumeration Areas

Data Preparation Date: 2018-07-03

Beginning Date: 1991 **End Date:** 2006

Sampling Frequency of Data: Annual - census years only

Years Available:

1991 - 1996 - 2001 - 2006

MAINTENANCE

Description: N/A

File Type: Comma separated values(.csv)

File Size: Each file is between 62 MB to 67 MB in size

Number of Data Files: 4

DATA USE CONDITIONS

The Data User is REQUIRED:

(i) to acknowledge data sources listed under Acknowledgement(s)

(ii) cite the publication(s) listed under Recommended Citation(s) as the providers and source of these data when using them in support of research, analysis, operations, policy decision or any other undertaking including publication

(iii) complete and sign the CANUE Data Use and Sharing Agreement (available at http://canue.ca/data/), in which the name and signature of the researcher/analyst who takes responsibility for ensuring all conditions are met.

Data Sharing Restrictions:

These data files are provided solely for the purposes stated in the CANUE Data Sharing and Use Agreement and should not be re-distributed for any reason. These data also contain proprietary postal code data and may only be used for the project named in the CANUE Data Sharing and Use Agreement. Data can be shared only within a project team for the exclusive purposes of teaching, academic research and publishing, and/or planning of educational services in accordance to DMTI End User Agreement associated with the Spatial Mapping Academic Research Tools (SMART) Program.

Include the following references in any publications resulting from the use of these data:

[1] Matheson et al. "Development of the Canadian Marginalization Index: a new tool for the study of inequality." Canadian Journal of Public Health, 2012;103(Suppl. 2):S12-S16.

[2] CanMap Postal Code Suite v2016.3. [Computer file] Markham: DMTI Spatial Inc., 2016.

Include the following acknowledgements:

1. Canadian Marginalization Index (CAN-Marg), indexed to DMTI Spatial Inc. postal codes , were provided by CANUE (Canadian Urban Environmental Health Research Consortium)

SUPPORT DOCUMENTATION

- 1 CAN-Marg data link: (http://www.torontohealthprofiles.ca/ont/onmargON.php)
- 2 Canadian Marginalization Data User Guide (https://canue.ca/wp-content/uploads/2018/07/CANMARG_user_Guide_2012.pdf)
- 3 Canadian Marginalization Data Summary (https://canue.ca/wp-content/uploads/2018/09/CANMarg_1991-1996_DevelopmentSummary.pdf)
- 4 Postal Code metadata (https://canue.ca/wp-content/uploads/2019/09/CANUE-Browser-Metadata-PostalCodes.pdf)

VARIABLES

CMGYY_01 - Province Code

Province code (AB, BC, MB, NB, NL, NS, NT, NU, ON, PE, QC, SK, YT)

CMGYY_02 - Community Name

Community name

CMGYY_03 - Municipality

Municipality

CMGYY_04 - Dissemination/Enumeration Area Unique Identifier

Dissemination/Enumeration area unique identifier

CMGYY_05 - Maximum Distance from Postal Code to Nearest Dissemination Area

Maximum distance from postal code to nearest dissemination area

CMGYY_06 - Quintiles of Instability

Quintiles of instability (1 = least unstable, 5 = most unstable)

CMGYY_07 - Quintiles of Deprivation

Quintiles of deprivation (1 = leat deprived, 5 = most deprived)

CMGYY_08 - Quintiles of Dependency

Quintiles of dependency (1 = least dependent, 5 = most dependent)

CMGYY_09 - Quintiles of Ethnic Concentration

Quintiles of ethnic concentration (1 = least ethnically concentrated, 5 = most ethnically concentrated)

CMGYY_10 - Principal Component Factor Score - Instability

Princial component factor score - instability (higher values = higher instability)

CMGYY_11 - Principal Component Factor Score - Deprivation

Princial component factor score - deprivation (higher values = higher deprivation)

CMGYY_12 - Principal Component Factor Score - Dependency

Principal component factor score - dependency (higher values = higher dependency)

CMGYY_13 - Principal Component Factor Score - Ethnic Concentration

Principal component factor score - ethnic concentration(higher values = higher ethnic concentration)

SUPPORT CONTACT

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DATA SOURCE CONTACT

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