



Canadian Urban Environmental Health Research Consortium

CANUE Metadata Canadian Marginalization Index
2018-07-03

DATA SET INFORMATION

Data Set Title:	Canadian Marginalization Index
Description:	<p>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 theoretical framework 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.</p> <p>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) from: http://www.torontohealthprofiles.ca/ont/onmargON.php</p> <p>CANUE staff downloaded Excel files for 2001 and 2006 on March 15, 2018; data for 1991 and 1996 were downloaded on August 21, 2018 .</p> <p>ArcGIS was used by CANUE staff to associate the single link DMTI Spatial postal codes to the Statistics Canada dissemination or enumeration areas boundary 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.</p>
Theme Keywords:	socioeconomic status, SES, marginalization, census, dissemination area
Place Keywords:	Canada national
Data preparation date:	7/3/2018
File Names	CMG_A_91.csv; CMG_A_96.csv; CNM_A_01.csv; CMG_A_06.csv
File Type:	Comma separated values (.csv)
Beginning Date:	1991
End Date:	2006
Sampling Frequency of Data:	Census years
Number of Data Files:	4
File Size	Each file is between 62 MB to 67 MB in size. All files total 250 MB.
Data Sources:	Centre for Urban Health Solutions, St. Michael's Hospital, Toronto, ON (CAN-Marg data); DMTI Spatial Inc (postal codes); Statistics Canada (enumeration/dissemination area boundary file)
Spatial Resolution:	Dissemination/Enumeration Areas
Detection Range or Limit:	N/A
Log of Changes:	N/A
Maintenance Description:	Additional years will be added when available



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GEOSPATIAL REFERENCE

Geographic Coverage	Canada
West Bounding Coordinate	N/A
East Bounding Coordinate	N/A
North Bounding Coordinate	N/A
South Bounding Coordinate	N/A
Geometry Type:	N/A
Point Data Source:	N/A
Coordinates have Z values:	N/A
Geographic Coordinate System:	N/A
Datum	N/A
Unit:	N/A

QUALITY ASSESSMENT

QA/QC procedures:	CANUE did not assess the quality of the CAN-Marg data. Users should review the documentation provided in the recommended citation and in the supporting documentation listed below.
Geographic Coordinate Positional Accuracy:	These metrics can be linked to the corresponding annual postal codes files for mapping and analysis purposes, using the 6-digit postal code as a unique identifier in both files. Refer to the following metadata file for additional information on opportunities for assessing the spatial representativeness of postal code locations when these metrics are linked: CANUE Metadata Postal Codes.pdf
Vertical Positional Accuracy:	N/A
Attribute Accuracy:	N/A
Data Validity :	NoData = -9999 for numeric fields and NULL for text fields
Associated Files:	N/A
Data Comment:	N/A
Data Comment:	N/A

SUPPORTING DOCUMENTATION

Additional documentation:	CAN-Marg_UserGuide.pdf
	CANMarg_1991-1996_DevelopmentSummary.pdf

DATA DICTIONARY

Field Name	Description	Data Type
POSTALCODEYY	6 digit postal code with no space between the FSA and LDU. (i.e. L1R2H2)	Text
CMGY_01	Province code: AB, BC, MB, NB, NL, NS, NT, NU, ON, PE, QC, SK, YT	Text
CMGY_02	Community name	Text
CMGY_03	Municipality	Text
CMGY_04	Dissemination/Enumeration area unique identifier	Numeric
CMGY_05	Maximum distance from postal code to nearest dissemination area	Numeric
CMGY_06	Quintiles of instability (1 = least unstable, 5 = most unstable)	Category
CMGY_07	Quintiles of deprivation (1 = least deprived, 5 = most deprived)	Category
CMGY_08	Quintiles of dependency (1 = least dependent, 5 = most dependent)	Category
CMGY_09	Quintiles of ethnic concentration (1 = least ethnically concentrated, 5 = most ethnically concentrated)	Category
CMGY_10	Princial component factor score - instability (higher values = higher instability)	Numeric
CMGY_11	Princial component factor score - deprivation (higher values = higher deprivation)	Numeric
CMGY_12	Princial component factor score - dependency (higher values = higher dependency)	Numeric
CMGY_13	Princial component factor score - ethnic concentration (higher values = higher ethnic concentration)	Numeric



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DATA SET CONTACTS

Data Support:	Contact CANUE via the email below.
Email:	info@canue.ca
Affiliated Organization:	CANUE (Canadian Urban Environmental Health Research Consortium) Dalla Lana School of Public Health, University of Toronto
Website:	www.canue.ca
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Exposure Data Source Contact:	Flora Matheson
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Affiliated Organization:	Centre for Urban Health Solutions, St. Michael's Hospital
City:	Toronto
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DATA USE CONDITIONS

Conditions of Use:	The Data User is REQUIRED: (i) to acknowledge data sources listed under Acknowledgement(s); (ii) cite the publication(s) listed under Required 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; and (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.
Required Citation:	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.
Required Acknowledgment:	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);