



# Canadian Urban Environmental Health Research Consortium

**CANUE Metadata Material and Social Deprivation Index (MSDI)  
2018-01-25**

DATA SET INFORMATION	
Data Set Title:	<b>Material and Social Deprivation Indices for Census Years 1991, 1996, 2001, 2006 and 2011</b>
Description:	<p>The National Material and Social Deprivation Indices (MSDI) for all Canadian Census enumeration areas (now called dissemination areas) were downloaded July 21, 2017 by CANUE staff from the INSPQ website: (<a href="https://www.inspq.qc.ca/expertises/gestion-et-analyse-de-l-information/diffusion-d-une-information-adaptee/santescope/indice-de-defavorisation">https://www.inspq.qc.ca/expertises/gestion-et-analyse-de-l-information/diffusion-d-une-information-adaptee/santescope/indice-de-defavorisation</a>).</p> <p>The indices were provided in Excel spreadsheets named TableEquivalenceCompleteCanada1991.xlsx; TableEquivalenceCompleteCanada1996.xlsx; TableEquivalenceCompleteCanada2001.xlsx; TableEquivalenceCompleteCanada2006.xlsx; and TableEquivalenceCompleteCanada2011.xlsx</p> <p>The above data are now available in English at: <a href="https://www.inspq.qc.ca/en/expertise/information-management-and-analysis/deprivation-index">https://www.inspq.qc.ca/en/expertise/information-management-and-analysis/deprivation-index</a></p> <p>ArcGIS was used by CANUE staff to associate the single link DMTI Spatial postal codes to the Statistics Canada enumeration/dissemination area boundary file, and then spatially join the MSDI data to DMTI single link postal codes using enumeration or dissemination area as a unique identifier. There may be many postal codes within a single enumeration or dissemination area - these will have the same index values. CANUE staff translated the variable names from French to English and added a distance attribute (maximum distance from postal code centroid to boundary of census area).</p>
Theme Keywords:	socioeconomic status, SES, material, social, deprivation, census, dissemination, enumeration
Place Keywords:	Canada national
Data preparation date:	2017-10-16
File Names	INDMSD_A_91.csv; INDMSD_A_96.csv; INDMSD_A_01.csv; INDMSD_A_06.csv; and INDMSD_A_11.csv
File Type:	Comma separated values (.csv)
Beginning Date:	1991
End Date:	2011
Sampling Frequency of Data:	Every 5 years
Number of Data Files:	5
File Size	Each file is between 60 MB and 77 MB in size. All five files together total 346 MB.
Data Sources:	INSPQ - Institut National de Sante Publique (MSDI data) ; DMTI Spatial Inc (postal codes); Statistics Canada (enumeration/dissemination area boundary file)
Spatial Resolution:	Census enumeration / dissemination areas
Detection Range or Limit:	N/A
Log of Changes:	<p>2017-11-25: renamed data set and variables to reflect change from Pampalon Index (PMP) to Material and Social Deprivation Index (MSD)</p> <p>2018-01-25: Field name MSDYY_PCODE changed to POSTALCODEYY.</p> <p>2018-01-25: Replaced blanks in numeric fields with -9999.</p>
Maintenance Description:	Indices for 2016 will be added when available.
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



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QUALITY ASSESSMENT		
QA/QC procedures:	CANUE did not assess the quality of the MSDI data. Users should review the documentation provided in the recommended citation, on the INSPQ website, and in the supporting documentation listed below.	
Geographic Coordinate Positional Accuracy:	<p>Attribute DIST_DA provides the maximum distance in metres between each postal code location (as per DMTI Spatial Inc. file) and the closest enumeration/dissemination area. In most cases, the distance is zero, indicating the postal code is located within the enumeration/dissemination area.</p> <p>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:</p>	
	<a href="#">CANUE Metadata Postal Codes.pdf</a>	
Vertical Positional Accuracy:	N/A	
Attribute Accuracy:	N/A	
Data Validity :	NoData = -9999 (for numeric fields).	
Associated Files:	N/A	
Data Comment:	N/A	
Data Comment:	N/A	
SUPPORTING DOCUMENTATION		
Additional documentation:	<p>Additional information and citations available at:  <a href="https://www.inspq.qc.ca/expertises/gestion-et-analyse-de-l-information/diffusion-d-une-information-adaptee/santescope/indice-de-defavorisation">https://www.inspq.qc.ca/expertises/gestion-et-analyse-de-l-information/diffusion-d-une-information-adaptee/santescope/indice-de-defavorisation</a></p>	
	<p>Users should refer to the User Guide before working with the MSDI data as it explains which version (provincial, regional, zone) is to be used when making comparisons. It also shows how to combine the material and the social quintiles into combined quintiles:</p>	
	<a href="#">MSDI User Guide EN.pdf</a>	
DATA DICTIONARY		
Field Name (YY = last two digits of specific year of data)	Description	Data Type
POSTALCODEYY	6 digit postal code with no space between the FSA and LDU. (i.e. L1R2H2)	Text
MSDYY_DIS_DA	Maximum distance in metres of postal code position from nearest enumeration/dissemination area, calculated as (distance in decimal degrees * 111,131.75), which considers the length of a degree of latitude at 45 degrees latitude (111, 131.75 meters). Since the length of a degree of latitude decreases toward the north pole, the distance calculated is overestimated for any location higher than 45 degrees north.	Numeric
MSDYY_DAPOP	Dissemination Area Population	Numeric
MSDYY_CSD	Census subdivision, for code list see <a href="http://www5.statcan.gc.ca/olc-cel/olc.action?ObjId=12-571-X&amp;ObjType=2&amp;lang=en&amp;limit=0">http://www5.statcan.gc.ca/olc-cel/olc.action?ObjId=12-571-X&amp;ObjType=2&amp;lang=en&amp;limit=0</a>	Text



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MSDYY_PR	Province: 10 Newfoundland and Labrador; 11 Prince Edward Island 12 Nova Scotia 13 New Brunswick 24 Quebec 35 Ontario 46 Manitoba 47 Saskatchewan 48 Alberta 59 British Columbia	Text
MSDYY_REG	Region : Atlantic, Quebec, Ontario, Prairies, British Columbia	Text
MSDYY_ZONE	Geographical area: Large CMA, Other CMA, Agglomeration, Rural	Text
MSDYY_CMA	Census Metropolitan Area - only three largest CMAs are identified, coded as	Text
MSDYY_MFS	Deprivation index - material factor score	Numeric
MSDYY_SFS	Deprivation index - social factor score	Numeric
MSDYY_MQ5PR	Material Factor Score Quintile within Province (1=lowest, 5 = highest)	Category
MSDYY_SQ5PR	Social Factor Score Quintile within Province (1=lowest, 5 = highest)	Category
MSDYY_MPPR	Social Factor Score Percentile within Province (1 = lowest, 100 = highest)	Category
MSDYY_SPPR	Material Factor Score Percentile within Province (1= lowest, 100 = highest)	Category
MSDYY_MQ5REG	Material Factor Score Quintile within Region (1=lowest, 5 = highest)	Category
MSDYY_SQ5REG	Social Factor Score Quintile within Region (1=lowest, 5 = highest)	Category
MSDYY_MQ5ZN	Material Factor Score Quintile within Zone (1=lowest, 5 = highest)	Category
MSDYY_SQ5ZN	Social Factor Score Quintile within Zone (1=lowest, 5 = highest)	Category
MSDYY_MQ5CMA	Material Factor Score Quintile within CMA (1=lowest, 5 = highest)	Category
MSDYY_SQ5CMA	Social Factor Score Quintile within CMA (1=lowest, 5 = highest)	Category
<b>DATA SET CONTACTS</b>		
Data Support:	Contact CANUE via the email below.	
Email:	<a href="mailto:info@canue.ca">info@canue.ca</a>	
Affiliated Organization:	CANUE (Canadian Urban Environmental Health Research Consortium)	
	Dalla Lana School of Public Health, University of Toronto	
Website:	<a href="http://www.canue.ca">www.canue.ca</a>	
City:	Toronto	
Prov/State:	Ontario	
Country:	Canada	
Exposure Data Source Contact:	See Institut National de Sante Publique website for current contact information	
Email:	<a href="mailto:christine.blaser@inspq.qc.ca">christine.blaser@inspq.qc.ca</a>	
Phone:	514-864-1600 #3712	
First Name:	Christine	
Last Name:	Blaser	
Affiliated Organization:	Institut National de Sante Publique	
City:	Montreal	
Prov/State:	Quebec	
Country:	Canada	



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### DATA USE CONDITIONS

<p>Conditions of Use:</p>	<p>The Data User is REQUIRED:</p> <ul style="list-style-type: none"> <li>(i) to acknowledge data sources listed under Acknowledgement(s);</li> <li>(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; and</li> <li>(iii) complete and sign the CANUE Data Use and Sharing Agreement (available at <a href="http://canue.ca/data/">http://canue.ca/data/</a>), in which the name and signature of the researcher/analyst who takes responsibility for ensuring all conditions are met.</li> </ul>
<p>Data Sharing Restrictions:</p>	<p>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.</p> <p>Data can be shared only within a project team, with those members who have access to a Research Data Centre (RDC) or are affiliated with an academic institution 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.</p>
<p>Required Citation:</p>	<p>Include the following references in any publications resulting from the use of these data:</p> <ol style="list-style-type: none"> <li>1. Pampalon, Robert, et al. "An Area-Based Material and Social Deprivation Index for Public Health in Québec and Canada." <i>Canadian Journal of Public Health / Revue Canadienne De Santé Publique</i>, vol. 103, 2012, pp. S17–S22. JSTOR, JSTOR, <a href="http://www.jstor.org/stable/41995684">www.jstor.org/stable/41995684</a>.</li> <li>2. CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015.</li> </ol>
<p>Acknowledgment:</p>	<p>Include the following acknowledgements:</p> <ol style="list-style-type: none"> <li>1. Material and Social Deprivation Indices (MSDI), indexed to DMTI Spatial Inc. postal codes , were provided by CANUE (Canadian Urban Environmental Health Research Consortium);</li> <li>2. Material and Social Deprivation Indices (MSDI) used by CANUE were provided by: Institut National de Santé Publique du Québec (INSPQ). Indiceses were compiled for 1991, 1996, 2001 and 2011 Census data by the Bureau d'information et d'études en santé des populations (BIESP). [online] [<a href="https://www.inspq.qc.ca/en/expertise/information-management-and-analysis/deprivation-index">https://www.inspq.qc.ca/en/expertise/information-management-and-analysis/deprivation-index</a>]</li> </ol>



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