



The Canadian Urban Environmental Health Research Consortium

Canue Metadata - Neighborhood Proximity to Roads

2021-02-15

DATA SET INFORMATION

Dataset Code: DTR_A_YY

Description:

Street network files from DMTI Spatial Inc. CanMap Content Suite for 1996, 2001, 2006, 2011 and 2016 were downloaded and used to create individual GIS files for each of the following road types: expressway; primary highway; secondary highway; arterial road; and local road. Distances, in metres, from each DMTI Spatial Inc. single-link postal code to the nearest road of each type were calculated by CANUE staff using PostGreSQL. Postal codes from 1994-1998 were associated with the road network for 1996; postal codes from 1999-2003 were associated with the road network for 2001; postal codes for 2004-2008 were associated with the road network for 2006; postal codes for 2009-2013 were associated with the road network for 2011; and postal codes for 2014-2018 were associated with the road network for 2016.

Keywords: roads|highway|expressway|arterial|local

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 DMTI road network 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:

NoData = -9999 for numeric fields, indicating no road of a specific type within 100 km.

DATA SOURCE

Data Source

<https://www.dmtispatial.com/canmap/>

Spatial Resolution: Postal code

Data Preparation Date: 2020-02-28

Beginning Date: 1994

End Date: 2018

Sampling Frequency of Data: Annual

Years Available:

1994 - 1995 - 1996 - 1997 - 1998 - 1999 - 2000 - 2001 - 2002 - 2003 - 2004 - 2005 - 2006 - 2007 - 2008 - 2009 - 2010 - 2011 - 2012 - 2013 - 2014 - 2015 - 2016 - 2017 - 2018

MAINTENANCE

Description: N/A

File Type: Comma separated values(.csv)

File Size: 28 to 34 MB

Number of Data Files: 25

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] Distance to Roads, prepared by the Canadian Urban Environmental Health Research Consortium
- [2] CanMap Postal Code Suite 2015, 2016, 2017, 2018 and 2019 [computer file] Markham: DMTI Spatial Inc.
- [3] CanMap Road files 1996, 2001, 2006, 2011, 2016 and 2019 [computer file] Markham: DMTI Spatial Inc.

Include the following acknowledgements:

- 1. The following [dataset name(s)] were accessed via the Canadian Urban Environmental Health Research Consortium (CANUE) Data Portal: <https://www.canuedata.ca/>

SUPPORT DOCUMENTATION

- 1 - DMTI CanMap documentation (<https://www.dmtispatial.com/canmap/>)
- 2 - Postal Code metadata (<https://canue.ca/wp-content/uploads/2019/09/CANUE-Browser-Metadata-PostalCodes.pdf>)

VARIABLES

DTRY_01 - Distance to Expressways (m)

Distance to nearest expressway in metres

DTRY_02 - Distance to Primary Highways (m)

Distance to nearest primary highway in metres

DTRY_03 - Distance to Secondary Highways

Distance to nearest secondary highway in metres

DTRY_04 - Distance to Major Roads (m)

Distance to nearest major road in metres

DTRY_05 - Distance to Local Roads (m)

Distance to nearest local road in metres

SUPPORT CONTACT

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Affiliated Organization:

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WebSite: <https://www.canue.ca>

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