

Postal Code Points

Canada

v1.9

Proprietary & Confidential



Contents

Contents	2
Document Control	3
Introduction	4
Purpose	4
Audience	4
Product Description.....	4
Definitions	4
Feature Representation	5
Locating Centroids.....	5
Record Types	6
Uses for Canadian Postal Code Points.....	6
Limitations	6
Technical Description	6
Formats	6
Character Set.....	8
Coverage	8
Projection/Datum Related Information.....	8
Attributes and Table Structure	9
Revision History	10

Document Control

The information below describes the changes made to this document for each version.

V1.0	11 July 2008	Initial Release
V1.1	18 February 2011	Updated format values for Attributes
V1.2	20 July 2011	Added File Geodatabase (GDB) format
V1.3	14 November 2011	Included optional DA ID note under attributes
V1.4	30 April 2012	Updated file naming format and attributes/table structure
V1.5	28 August 2013	Removed note regarding optional DA ID
V1.6	23 January 2014	Projection is WGS84
V1.7	6 February 2015	Precision description of Latitude and Longitude is now Eight decimal places instead of Five. This has no impact on the data
V1.8	24 August 2015	Changes to the data attributes. Added H2O_CTRD, ADMIN4, and ADMIN5 to the data tables. Quarter reference replaced with DVN
V1.9	5 May 2017	Clarification on Character Set Encoding

This document is provided to you in confidence, for the sole purpose of providing information about Postal Code Points Canada. It contains confidential information and may only be used for the purpose mentioned above. Any other use may cause irreparable harm to HERE, for which you may be held responsible.

©2017 HERE

Introduction

Purpose

The Postal Code Points Canada document is intended to be used in conjunction with the NAVSTREETS Street Data Reference Manual. The information described in this document is limited to the layer(s) provided for the Postal Code Points product.

Audience

This document is intended for use by HERE staff and current licensees of HERE.

Product Description

The full Canadian postal code consists of 6 characters (example: L7L 6R1). The first 3 characters are referred to as the Forward Sortation Area or FSA. The second 3 characters are the Local Delivery Unit or LDU. This HERE Map Content product contains the centroid representation of the area that covers a single 6-character postal code.

Definitions

FSA	FSA (Forward Sortation Area)- The FSA comprises the first three characters of a Postal Code. The FSA qualifies the area within a municipality that is permitted to use the valid alternate municipality name.
LDU	Local Delivery Unit (LDU) identifies a specific delivery point such as a building or address range on a street.

Feature Representation

- This product consists of 1 layer with centroids of the full Canadian Postal Service 6 character postal codes (or FSA-LDU). This layer can be overlaid upon the HERE map data for enhanced study.
- A centroid is a point feature which has an implicit X, Y coordinate. (The coordinates are explicit in the Pipe-delimited text format of this product).
- Centroids that represent odd or even ranges are offset five meters to the odd or even side of the street.
- The centroids are derived from the most current Canada Post file possible in conjunction with a given release of the highly accurate HERE core street database.
- A centroid can represent one side of a city block between intersections; both sides of a street, including cul-de-sacs; multiple streets; a company or building; a floor or group of floors within a building; a cluster of mailboxes; sections of post office boxes; or other similar delivery groups.

Locating Centroids

The Centroids in this product are located or placed at different levels of geocode precision. These are described as an attribute called "GEO_Level". There are 6 GEO_Levels.

GEO_Level	Name	Description
1	FSA-LDU	The centroid is located at the midpoint of the full FSA-LDU area.
2	*FSA+2	The centroid is located at the delivery centre point of the FSA+2 Postal Codes.
3	*FSA+1	The centroid is located at the delivery centre point of the FSA+1 Postal Codes.
4	*FSA	The centroid is located at the delivery centre point of the FSA Postal Code area.
5	City Centroid	The centroid is located at the midpoint of the incorporated city area (NT_City).
6	Admin 3/County Centroid	The centroid is located at the centre point of the County area.

*These 'GEO_Levels' are determined by the point of gravity of all the existing centroids that fall within those areas.

Record Types

This table describes the 5 different types of the Canadian Postal Code Point records as defined by Canada Post in their documentation.

Record Types	Name
1	Street Address Record
2	Street Served by Route Record
3	Lock Box Address Record
4	Route Service Address Record
5	General Delivery Address Record

Uses for Canadian Postal Code Points

- Geocoding
- Density mapping
- Sales territory creation and realignment
- Retail trade area creation and realignment
- Demographic analysis when used with your demographic data
- Direct mailing applications

Limitations

The information from Canada Post found within this product has not been altered or changed in any way. Any issues with the data may be reflected in the Postal Code Points Canada product.

Technical Description

Formats

Product delivered in ESRI Shapefile (.shp), MapInfo Tab File (.TAB), Pipe-delimited text, and File Geodatabase (.GDB) formats.

Shapefile format:

Versions Supported

- ArcView 3.x or higher
- ArcGIS 8.x or higher

Precision

- Double precision is used

Directories and Files

- Shapefiles are organized by whole country with the following file name:

CAN_DVN_POSTAL_CODE.ext

Where “DVN” = Product DVN

Where “ext” = shp files

File Geodatabase format:

Directories and Files

- Files are organized by whole country with the following file name:

PostalCodePoints.gdb

Tab file format:

Versions Supported

- MapInfo 3.x or higher

Precision

- Double precision is used

Directories and Files

- MapInfo files are organized by whole country with the following file name:

CAN_DVN_POSTAL_CODE.ext

Where “DVN” = Product DVN

Where “ext” = tab files

Workspace files are NOT created for Tab format

Pipe-Delimited Text format:

Versions Supported

- All expected applications that can read Pipe-Delimited Text files

Precision

- Double precision is used

Directories and Files

- Pipe-Delimited Text files are organized by whole country with the following file name:

CAN_ DVN_POSTAL_CODE.ext

Where “DVN” = Product DVN

Where “ext” = txt files

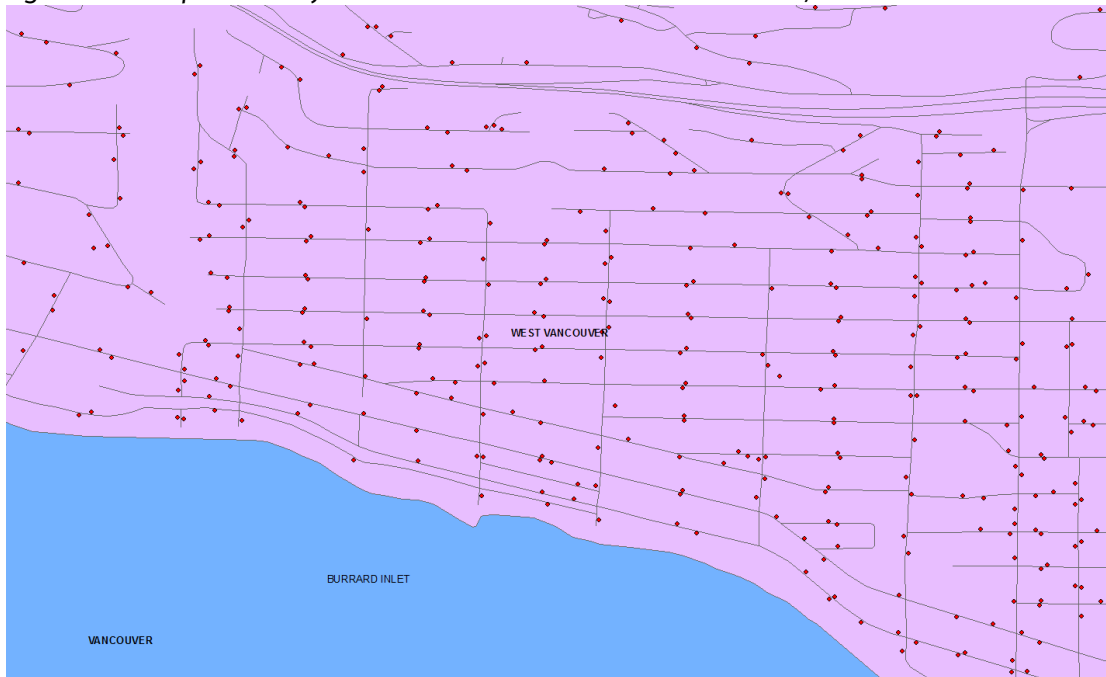
Character Set

- Windows Latin-1 ANSI (Windows-1252)

Coverage

- Coverage is all 10 Provinces and 3 Territories of Canada.

Figure 1- Sample view of Postal Code Points in the Vancouver, BC area



Projection/Datum Related Information

- Coordinate System: Geographic
- World Geodetic System 1984 (WGS84)
- Units: Decimal degrees
- Precision: Eight decimal places of precision. Double precision is used to store coordinate data.

Attributes and Table Structure

The layer in the Postal Code Point product contains the following attributes:

Column	Description	
POST_MAIN	FSA Postal Code	
POST_FULL	6-Character Postal Code (e.g.: V0A1A0)	
ISO_CTRY	ISO Alpha 3 code for the country	
GEO_LEVEL	<i>Level Code</i>	<i>Description</i>
	1	6-Character Postal Code match
	2	5-Character Postal Code centroid
	3	4-Character Postal Code centroid
	4	FSA Postal Code centroid
	5	Town centroid
	6	Division/Province Centroid
REC_TYPE	<i>Type Code</i>	<i>Description</i>
	1	Street Address
	2	Street Served by Route
	3	Lock Box Address
	4	Route Service Address
	5	General Delivery Address
LAT*	Latitude	
LON*	Longitude	
LINK_ID	Link ID to the nearest street feature	
PC_LABEL	6-Character Postal Code with a space in the middle (e.g.: V0A 1A0)	
DIRECTORY	Major community or greater municipality grouping that contains the Postal Code	
MUNICIPAL	Official Municipality Name	
ADMIN4	Identifies the name of the Administrative level 4 found in the HERE map associated with a point location. Formally known as NT_CITY	
ADMIN5	HERE map Settlement name (Admin 5 level)	
PRV_ABRV	Province Abbreviation	
PRUID	Province Unique Identifier	
CENSUS_DA	The Census Dissemination Area Unique Identifier for the Postal Code record	
H2O_CTRD	Identify points that are in a water body. 5 square km	
	<i>Type Code</i>	<i>Description</i>
	N	No (not on water)
	B	Centroid on bridge
	W	Centroid on water

*Latitude and Longitude only found in the Pipe-Delimited Text format. Coordinates are implicit in the other formats for this product.

Revision History

Version	Date	Page #	Description
1.0	11 July 08		Initial Release
1.1	18 Feb 11	8	Updated format values for Attributes
1.2	20 July 11	6	Added File Geodatabase (GDB) format
1.3	14 Nov 11	8	Included optional DA ID note under attributes
1.4	30 Apr 12	7,9	Updated file naming format and attributes/table structure
1.5	28 Aug 13	9	Removed note regarding optional DA ID
1.6	23 Jan 14	8	Projection is WGS84
1.7	6 Feb 15	8	Precision description of Latitude and Longitude is now Eight decimal places instead of Five. This has no impact on the data.
1.8	24 Aug 15	9	Changes to the data attributes. Added H2O_CTRD, ADMIN4, and ADMIN5 to the data tables. Quarter reference replaced with DVN
1.9	5 May 17	7	Clarification on Character Set Encoding