www.dmtispatial.com

CanMap® Streetfiles
User Manual

Version v2006.3

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really smart spatial solutions™

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About DMTI Spatial™

DMTI Spatial Inc. is Canada's leading spatial solutions provider. We enable users to understand their customers, optimize resources, realize opportunities, maximize profitability and make more informed decisions through accurate products and innovative thinking.

DMTI Spatial publishes precision built street map, rail and routing data (CanMap®), a detailed water layer, and innovative geocoding and address management software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geospatial data products including: enhanced points of interest (EPOI), census data and boundaries, postal geography, topographic maps, and US mapping data. As part of a complete business geographic solution, DMTI Spatial offers a wide range of GIS services, consulting, and software training.

Established in 1994, DMTI Spatial is committed to setting the standard within the GIS industry for precision built spatial data and geocoding software products.

At DMTI Spatial, we believe that our true strength comes from working closely with our customers and providing innovative solutions to meet their strategic business objectives. As Canada's premier spatial solutions provider we pride ourselves with having worked with North America's leading organizations to support their mission critical applications.

DMTI Spatial works with large and small organizations representative of a wide variety of industries:

- Agriculture
- Banking/Finance
- Consulting
- Education
- Emergency Services
- Engineering
- Environmental
- Forestry
- Government
- Health
- High Technology
- Insurance
- Manufacturing
- Media
- Mining
- Real Estate
- Retail
- Telecommunications
- Transportation
- Utilities

We are a member of the ESRI Canada Business Partner Program, and winner of the 2001 ESRI Worldwide New Business Partner of the Year Award and the 2005 ESRI Foundation Partner of the Year Award. We are a strategic business partner of MapInfo and winner of the Markham Board of Trade 2000 Award for Entrepreneurship and Innovation. Recipient of The Association of Canadian Map Libraries and Archives (ACMLA) 2002 Certificate of Appreciation.

ESRI Canada Business Partner

MapInfo® Business Partner

Really Smart Spatial Solutions™

Through the application of its products and services, DMTI Spatial has been involved with projects such as: location-based services, logistics planning, emergency dispatch, facilities management, data management, customer care, address management, land base development in support of network planning, and marketing/demographic analysis applications.

DMTI Spatial can provide all of the components necessary for the acquisition, implementation, operation and maintenance of a successful GIS system within companies of all sizes. Through its product and service offering, DMTI Spatial can provide users with 5 key components:

1. Accurate, detailed, and compatible data
2. Comprehensive maintenance program
3. GIS software
4. Consulting and services
5. Software training

DMTI Spatial™ Product & Service Portfolio

DMTI Spatial's product & service offering includes:

CanMap® - *Digital Map Data for Canada*
- CanMap® Streetfiles
- CanMap® RouteLogistics
- CanMap® Rail
- CanMap® Major Roads and Highways
- CanMap® Parks & Recreation
- CanMap® Water

Satellite Imagery
- Satellite StreetView™

MultiNet™ - *Digital Map Data for USA*
- Tele Atlas MultiNet™

Municipal Amalgamations
- CanMap® Municipality Amalgamation File (MAF)

Business & Recreational Points of Interest
- Enhanced Points Of Interest (EPOI)

GeoPinpoint™ Suite
- Canada's Geocoding Solution
- Modular Architecture
- Windows Standalone Desktop Version
- UNIX, Java Wrapper, ActiveX (DLL Version)

Topographic Data and Base Maps
- Canadian Atlas Map Bundle (CAMB)
- Populated Placenames
- National Topographic Data Base (NTDB)
- 30 & 90m Digital Elevation Models (DEM)
- Clutter Data

Postal Geography & Data
- Six-Digit Postal Code File (LDU)
- Enhanced Postal Code File (MEP)
- Forward Sortation Areas (FSA)

1996 Census Boundaries & Demographic Data
- Enumeration Area (EA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

2001 Census Boundaries
- Dissemination Area (DA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

GIS Software
- Contour Modeling and Display
- Demographic Profiling and Lifestyle Targeting
- Geocoding and Mapping Software
- Routing and Logistics

Consulting and Services
- Application Development
- Database Marketing
- Data Conversion and Creation
- Database Scrubbing
- Geocoding Services
- GIS Consulting
- Technical Support

Error Reporting & Wish List Services

DMTI Spatial is committed to building the best products possible for our customers. By using our data every day in your mission critical application you are our best product tester. Please let us know if you have found an error in any of our products so that we can make the correction for the next release.

This is your opportunity to provide feedback directly to the DMTI Spatial Product Development Team. Please be as specific as possible so that we can improve our products quickly and accurately. To access the Error Reporting Web page please visit: http://www.dmtispatial.com/feedback.htm or send an e-mail to: fixme@dmtispatial.com

If you have an idea for a new product or an existing product enhancement, please submit your ideas to the Wish List Web page: http://www.dmtispatial.com/wish_list.htm or send an e-mail to: wishlist@dmtispatial.com

Over the coming months DMTI Spatial will keep you informed of new product releases, enhancements and strategic alliances. Our goal is to provide you with powerful knowledge based tools to help you attain and maintain your competitive advantage.

Contact Information

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Product Wish List Service: wishlist@dmtispatial.com
Technical Support: support@dmtispatial.com

Trademarks and Notices

About CanMap® Streetfiles V2006.3

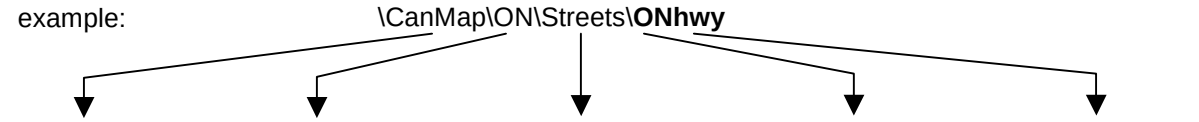
Layer Properties

Property	Description
Coverage	National
Currency	Aug. 15, 2006.
Level of Accuracy	Ranging from the National Topographic Data Base (NTDB) standard to sub-meter accuracy
Projection	All layers are displayed as unprojected Longitude-Latitude
Datum	All layers are in NAD83 datum
Format	ESRI and MapInfo[1]

Layer Naming Conventions

CanMap Streetfiles is organized into the following directory structure and uses the following directory and file naming conventions:

example: \CanMap\ON\Streets**ONhwy**



Product Directory	Geographic Area Directory	General Content Directory	Geographic Area Abbreviation	Layer Content Abbreviation
CanMap	ON	Streets	ON	hwy

The geographic area directory area indicates the geographic coverage of the layer, for example ON = Ontario.

The Geographic Area Name indicates the geographic extent of the file. DMTI Spatial's standard geographic coverage areas include all Provinces and Territories as well the coverage areas found in the CANtop file included with Bonus Canada Directory.

CanMap Streetfiles contain the following general content directories:

Directory Name	Description
Canada	Canada Directory
POI	Points of Interest Directory
Streets	Streets Directory
Topo	Topo Directory

[1] Custom formats available upon request. Refer to *Appendix A: ESRI File Extensions* and *Appendix B: MapInfo File Extensions* for more information regarding file extensions.

About CanMap Streetfiles V2006.3 *(cont'd)*

Layer Contents

CanMap Streetfiles is comprised of the following layers:

Canada Directory

Layer Name	Description	Feature Type
CAN**acb**	Area Code Boundaries	Polygon
CAN**cap**	Capital Cities	Point
CAN**prv**	Provincial/Territorial Boundaries	Polygon
CAN**rmn**	Regional Municipality Boundaries	Polygon
CAN**top**	Topographic Coverage Areas	Polygon
CAN**tzs**	Time Zones (Standard Time)	Polygon
CAN**tzd**	Time Zones (Daylight Savings Time)	Polygon
CAN**wat**	National Water	Polygon

The Canada Directory is included with the CanMap Streetfiles product. For more information regarding the Canada Directory refer to the *Canada Directory User Manual* included with CanMap Streetfiles.

Points of Interest Directory

Layer Name	Description	Feature Type
*AREA***cpl**[2]	Car Pool Lots	Point
*AREA***edu**	Education	Point
*AREA***glf**	Golf Courses	Point
*AREA***hcr**	Health Care	Point
*AREA***ppn**	Populated Placenames	Point
*AREA***tol**	Toll Booths	Point
*AREA***trs**	Transportation Stops	Point

Streets Directory

Layer Name	Description	Feature Type
*AREA***exc**[3]	Expressways Casements	Region
*AREA***hpc**	Primary Highways Casements	Region
*AREA***hrd**	Major Roads and Highways	Line
*AREA***hsc**	Secondary Highways Casements	Region
*AREA***hwy**	Highways	Line
*AREA***lnk**	Canada\US Roads Linkages	Point
*AREA***lrc**	Local Roads Casements	Region
*AREA***maf**	Municipal Amalgamations File	Region
*AREA***mrc**	Major Roads Casements	Region
*AREA***mun**	Municipality Boundaries	Region
*AREA***rds**	Roads	Line
*AREA***rds_lut**	Roads Lookup Table	None
*AREA***tlc**	Trails Casements	Region
*AREA***xit**	Highway Exits	Point

[2] Where *AREA* refers to a DMTI Spatial Standard Geographic Area
[3] Casements not available in ArcInfo Interchange Format (*.e00)

About CanMap Streetfiles V2006.3 *(cont'd)*

Topo Directory

Layer Name	Description	Feature Type
*AREA***bf**	Building Footprints	Region
*AREA***bp**	Building Points	Point
*AREA***hs**	Hydrographic Structures	Point, Line, Region
*AREA***hy**	Hydrography	Point, Line, Region
*AREA***ir**	Industrial and Resource	Point, Line, Region
*AREA***ll**	Land Feature Labels	Point
*AREA***lu**	Land Use	Region
*AREA***ot**	Other Transportation	Point, Line, Region
*AREA***ph**	Physiography	Point, Line, Region
*AREA***prl**	Parks and Recreation - Points	Line
*AREA***prp**	Parks and Recreation - Lines	Point
*AREA***prr**	Parks and Recreation - Regions	Region
*AREA***pt**	Pipelines and Transmission	Point, Line, Region
*AREA***rl**	Rail and Transit Lines	Line
*AREA***ve**	Vegetation	Region
*AREA***we**	Wetlands	Region
*AREA***wl**	Water Feature Labels	Point

All 2 character Topo layer names will be suffixed with a 'p' (point), 'l' (line/polyline), or 'r' (region) to indicate the object type contained within the file for ArcInfo, ArcView and ArcGIS formats only. For example, the hy (Hydrography) theme will be provided as hyp (containing points), hyl (containing lines), and hyr (containing regions) files. All topographic layers may not be available for all geographical areas.

For more information regarding these layers refer to the *Data Dictionary* of the CanMap Streetfiles user manual.

Using CanMap® Streetfiles V2006.3

Viewing DMTI Spatial Products

Packaged with DMTI Spatial products are several custom viewing files for MapInfo® Professional, ESRI® ArcView® GIS and ESRI® ArcGIS®.

Software	Extension	Version Support
MapInfo Professional	*.wor	Version 4.5 and higher
ESRI ArcView GIS	*.apr	Version 3.0 and higher
ESRI ArcGIS	*.mxd	Version 8.1 and higher

Located in the product directory, these viewing files have been provided to maximize the ease of use of DMTI Spatial products by intelligently layering various data layers and displaying them based on appropriate viewing scales.

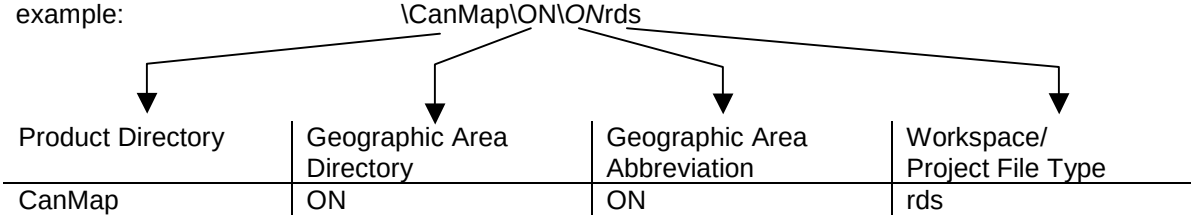
Viewing CanMap Streetfiles

There are currently two viewing files available for reference, mapping and analysis.

Filename	Description
*AREA*rds	Offers a limited number of files for reference purposes only. Opens and zoom layers capital cities, populated placenames, roads, major roads and highways, highways, municipality boundaries, and national water.
*AREA*top	Offers most of the files in the CanMap Streetfiles product for mapping and analysis. Opens and zoom layers almost all of the CanMap Streetfiles. Includes labeling of capital cities, populated placenames, roads, major roads & highways, highways, and municipality boundaries.

CanMap Streetfiles workspaces or project files are found in the product directory:

example: \CanMap\ON*ON*rds



Suggested Layering for CanMap Streetfiles

If you wish to view the CanMap product without the aid of the provided viewing files or the format purchased does not come with them, DMTI Spatial™ recommends using the following layering system to view your CanMap product:

Using CanMap® Streetfiles V2006.3 (cont'd)

Layering in MapInfo

Layer	Description
cap	Capital Cities
xit	Highway Exits
ll	Land Feature Labels
wl	Water Feature Labels
cpl	Car Pool Lots
edu	Education
glf	Golf Courses
hcr	Health Care
ppn	Populated Placenames
tol	Toll Booths
trs	Transportation Stops
prp	Parks and Recreation - Points
prl	Parks and Recreation - Lines
pt	Pipelines and Transmission
bp	Building Points
bf	Building Footprints
rl	Railway and Transit Lines
exc[4]	Expressways Casements
hpc	Primary Highways Casements
hsc	Secondary Highways Casements
mrc	Major Roads Casements
lrc	Local Roads Casements
tlc	Trails Casements
rds	Roads
hrd	Major Roads and Highways
hwy	Highways
hs	Hydrographic Structures
ot	Other Transportation
ir	Industrial and Resource
ph	Physiography
we	Wetlands
hy	Hydrography
prr	Parks and Recreation - Regions
ve	Vegetation
lu	Land Use
wat	National Water
top	Topographic Coverage Areas
rmn	Regional Municipality Boundaries
mun	Municipality Boundaries
prv	Provincial Boundaries

[4] Casements not available in ArcInfo Interchange Format (*.e00)

Using CanMap® Streetfiles V2006.3 *(cont'd)*

ArcView, ArcGIS Layering

Layer	Description
cap	Capital Cities
xit	Highway Exits
llp	Land Feature Labels
wlp	Water Feature Labels
cpl	Car Pool Lots
edu	Education
glf	Golf Courses
hcr	Health Care
ppn	Populated Placenames
tol	Toll Booths
trs	Transportation Stops
prp	Parks and Recreation - Points
ptp	Pipelines and Transmission - Points
otp	Other Transportation - Points
bpp	Building Points
hsp	Hydrographic Structures - Points
irp	Industrial and Resource - Points
php	Physiography - Points
hyp	Hydrography - Points
prl	Parks and Recreation - Lines
ptl	Pipelines and Transmission - Lines
otl	Other Transportation - Lines
bfr	Building Footprints
rll	Railway and Transit Lines
exc	Expressways Casements
hpc	Primary Highways Casements
hsc	Secondary Highways Casements
mrc	Major Roads Casements
lrc	Local Roads Casements
tlc	Trails Casements
rds	Roads
hrd	Major Roads and Highways
hwy	Highways

Using CanMap® Streetfiles V2006.3 *(cont'd)*

Layer	Description
hsl	Hydrographic Structures - Lines
irl	Industrial and Resource - Lines
phl	Physiography - Lines
hyl	Hydrography - Lines
ptr	Pipelines and Transmission - Regions
hsr	Hydrographic Structures - Regions
otr	Other Transportation - Regions
irr	Industrial and Resource - Regions
phr	Physiography - Regions
wer	Wetlands
hyr	Hydrography - Regions
prr	Parks and Recreation - Regions
ver	Vegetation
lur	Land Use
wat	National Water
top	Topographic Coverage Areas
rmn	Regional Municipality Boundaries
mun	Municipality Boundaries
prv	Provincial Boundaries

Other CanMap layers

Layer	Description
acb	Area Code Boundaries
lnk	Canada\USA Roads Linkages
rds_lut	Roads Lookup Table
tzs	Time Zones (Standard Time)
tzv	Time Zones (Daylight Savings Time)

Using CanMap® Streetfiles V2006.3 *(cont'd)*

DMTI Tools provided with CanMap Streetfiles

CanMap Label Tool for ArcView 3.x

DMTI Spatial provides ArcView 3.x users with a tool that allows the user to automatically label certain layers in the CanMap Streetfiles and CanMap Routelogistics project files. Using this tool eliminates the build-up of labels contained within the project file itself thereby maintaining a manageable file size.

Overview

There are two custom built buttons to manage the standard labeling of CanMap Streetfiles and CanMap Routelogistics located in the view's button bar to the left of the Help button.

 CanMap Label Button used to create the standard labels for the current extent of the view
 CanMap Remove Labels Button used to remove labels from the entire view

Usage

CanMap Label Button:

Click the CanMap Label Button
Before the labels are drawn, all existing labels will be deleted, except for user-customized labels (i.e. labels that have been manually added using Arcview's label tool, or moved on selected themes shown in Table 1).

CanMap Remove Labels Button:

Click the CanMap Remove Labels Button
The user will be asked to confirm that they do in fact want to proceed in the deletion of the labels. If they choose No, all labels will be left as is. If they click Yes, another prompt will ask, "Do you want to delete CanMap Label tool created labels only?" If they click 'Yes', only the labels created with the CanMap Label Button will be deleted. By choosing 'No', all labels (including user-customized) will be deleted.

Notes

Themes are labeled depending on the current scale of the view. (See Table 1 for the themes that are labeled and the scale ranges during which labels are applied). Each theme has predefined scale ranges to determine when it will be labeled (e.g. municipalities are labeled at scales between 1:1,000,000 and 1:100,000).
Labels are created only for the visible extent of the view when using the CanMap Label Button.
When the user changes the scale of the view (i.e. zooming in or out or manually changing the scale value) all labels in the entire view (except for any user-customized labels) will be deleted.
When the user moves a label (i.e. using the pointer tool), that label is subsequently considered to be a user-customized label.

Using CanMap® Streetfiles V2006.3 *(cont'd)*

If the user manually adds a label (using ArcView's label tool) to one of the layers labeled by the CanMap Label Button, the label will automatically be changed to the size and font style defined by the CanMap Label Button for that layer. The label is then subsequently considered to be a user-customized label.
If the newly added label overlaps another existing user-customized label with the same text, the newly created label will not be applied. If the existing label is not a user-customized label then the existing label will be removed and replaced by the new user-customized label.
Labels created with the CanMap Label Button will function like labels created using ArcView's auto-labeling tool (e.g. if you change the size and/or font style for one label in the roads theme, all labels for the roads theme will change as well.) User-customized labels are independent.
The CanMap Label Tool is not customizable, but does not prohibit the user in any way from using ArcView's label or auto-labeling tools to custom-label any theme or themes in any manner so desired.

Table 1: Labeled themes and their associated scale ranges in CanMap Streetfiles and CanMap RouteLogistics

Theme	Minimum Scale	Maximum Scale
llp	0	100,000
wlp	0	100,000
mun	100,000	1,000,000
rmn	1,000,001	3,500,000
hrd	25,001	50,000
hwy	50,001	275,000

Using CanMap® Streetfiles V2006.3 *(cont'd)*

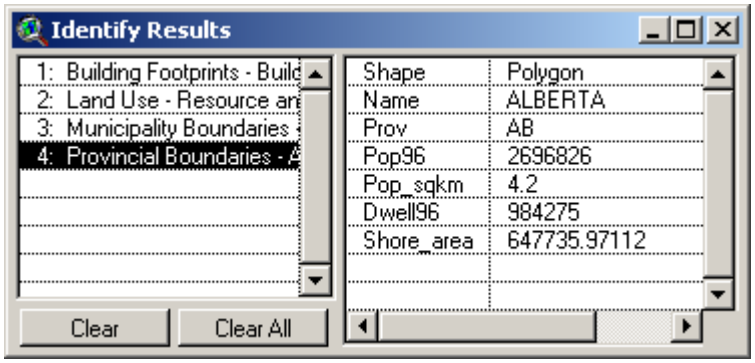
CanMap Identify Tool for ArcView 3.x

DMTI Spatial provides ArcView 3.x users with a custom built tool that allows the user to click anywhere on the map and identify features from all CanMap themes in the view regardless of what themes are active. ArcView's identify tool only identifies the features from the active theme.

Usage

CanMap Identify Tool Button:

Click the CanMap Identify Tool Button
Click anywhere on the map
A table called 'Identify Results" will open displaying all of the layers in the location where the user clicked.



Data Dictionary

Building Footprints (bf)

Layer Location

\Topo*AREA***bf***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type
CATEGORY	Character	40	Feature Category

Layer Content

Code	Feature
106	ARENA
107	ARMOURY
108	AUTOMOBILE PLANT
109	BARN/MACHINERY SHED
111	CEMENT PLANT
112	CHEMICAL PLANT
113	CHURCH
114	CITY HALL
115	COAST GUARD STATION
116	COLLEGE
117	COMMUNITY CENTRE
118	CONVENT
119	CORRECTIONAL INSTITUTE
120	COURTHOUSE
120	COURT HOUSE
121	CUSTOMS POST
122	DOME
123	ELECTRIC POWER STATION
124	FACTORY
125	FILTRATION PLANT
126	FIRE STATION
127	FIRE/POLICE STATION

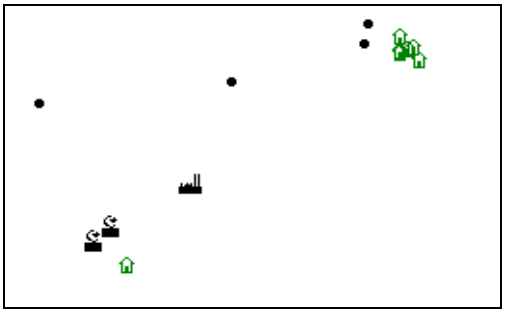
Code	Feature
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
131	HALL
132	HIGHWAY SERVICE CENTRE
133	HOSPITAL
134	HOSTEL
135	HOTEL
136	KILN (TOBACCO)
137	LUMBER MILL
139	MEDICAL CENTRE
140	MONASTERY
141	MOTEL
142	MUNICIPAL HALL
143	MUSEUM
144	NON-CHRISTIAN PLACE OF WORSHIP
145	OBSERVATORY
146	OIL/GAS FACILITIES BUILDING
146	GAS AND OIL FACILITIES
147	OTHER
149	PARLIAMENT BUILDING
150	PENITENTIARY

Data Dictionary *(cont'd)*

Code	Feature
151	PETROLEUM REFINERY
152	PLANT
153	POLICE STATION
154	PULP/PAPER MILL
155	RAILWAY STATION
156	REFORMATORY
157	SANATORIUM
158	SATELLITE-TRACKING STATION
159	SAWMILL
160	SCHOOL
161	SEMINARY
162	SENIOR CITIZENS HOME
163	SEWAGE TREATMENT PLANT
164	SHIPYARD
165	SHOPPING CENTRE
166	SPORTSPLEX
167	STEEL MILL
168	TRADING POST
169	UNIVERSITY
170	WARDEN/RANGER STATION
171	WATER TREATMENT PLANT
172	WEIGH SCALE (HIGHWAY)
172	WEIGHT SCALE
174	GREENHOUSE
175	PENAL BUILDING
176	LODGING FACILITIES
177	INDUSTRIAL BUILDING
178	RELIGIOUS BUILDING
179	EDUCATIONAL BUILDING
585	FORT: GENERIC/UNKNOWN
585	FORT
618	GREENHOUSE
1220	STADIUM

Data Dictionary *(cont'd)*

Building Points (bp)



Layer Location
\Topo*AREA***bp***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type
CATEGORY	Character	40	Feature Category

Layer Content

Code	Feature
109	BARN/MACHINERY SHED
110	CABIN
113	CHURCH
114	CITY HALL
115	COAST GUARD STATION
118	CONVENT
122	DOME
123	ELECTRIC POWER STATION
125	FILTRATION PLANT
126	FIRE STATION
127	FIRE/POLICE STATION
128	FISH HATCHERY
129	FISH PROCESSING PLANT
130	GRAIN ELEVATOR
136	KILN (TOBACCO)
137	LUMBER MILL
140	MONASTERY

Code	Feature
144	NON-CHRISTIAN PLACE OF WORSHIP
146	OIL/GAS FACILITIES BUILDING
148	OUTBUILDING
151	PETROLEUM REFINERY
155	RAILWAY STATION
159	SAWMILL
163	SEWAGE TREATMENT PLANT
164	SHIPYARD
167	STEEL MILL
170	WARDEN/RANGER STATION
171	WATER TREATMENT PLANT
174	GREENHOUSE
178	RELIGIOUS BUILDING
250	CEMETERY
684	LOOKOUT
1119	SHRINE

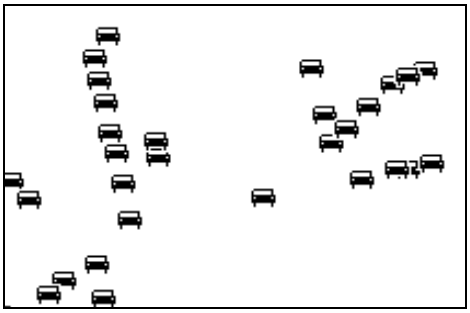
Data Dictionary *(cont'd)*

Bus Transit – Lines (btl) ** Discontinued for v8.1 **

Bus Transit - Points (btp) ** Integrated into Transportation Stops (trs) for v8.1 **

Data Dictionary *(cont'd)*

Car Pool Lots (cpl)



Layer Location
\POI*AREA***cpl**

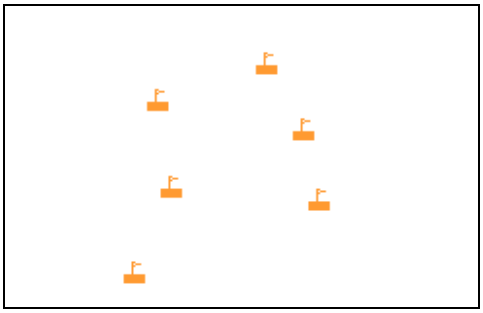
Layer Structure

Field Name	Type	Size	Description
NAME	Character	150	Car Pool Lot name
LOCATION	Character	100	Car Pool Lot Location
CITY	Character	68	City (or closest Municipality)
PROV	Character	2	Province (Abbreviation)
EXIT_NUM	Character	5	Highway Exit Number at Car Pool Lot Location
DIRECTION	Character	2	Direction of Highway at Car Pool Lot Location
PREC_CODE[5]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
ATTRIBCODE	Character	2	Code to indicate the accuracy of the attribute data
POI_ID	Character	15	Unique ID

[5] Refer to the Appendix E: Geographical Placement of Data for more information.

Data Dictionary *(cont'd)*

Education (edu)



Layer Location

\POI*AREA***edu**

Layer Structure

Field Name	Type	Size	Description
NAME	Character	150	Educational facility name
PREC_CODE[6]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
ATTRIBCODE	Character	2	Code to indicate the accuracy of the attribute data
POI_ID	Character	15	Unique ID

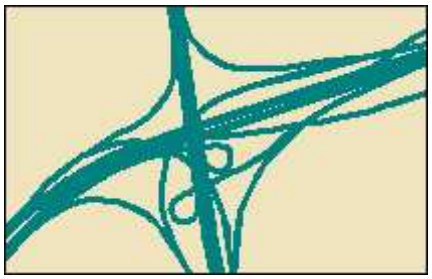
Layer Content

Includes Elementary, High Schools, Colleges, Cégeps and Universities.

[6] Refer to the Appendix E: Geographical Placement of Data for more information.

Data Dictionary *(cont'd)*

Expressway Casements (exc)



Layer Location

\Streets*AREA***exc**

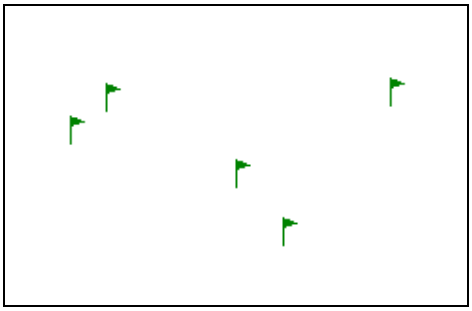
Layer Structure

Field Name	Type	Size	Description
STREET[7]	Character	64	Street Title
RDS_ID	Decimal	9,0	UniqueId of related Roads (rds) segment

[7] For more information refer to Appendix C: Street Types and Street Directions

Data Dictionary *(cont'd)*

Golf Courses (glf)



Layer Location

\POI*AREA***glf**

Layer Structure

Field Name	Type	Size	Description
NAME	Character	150	Golf Course name
PREC_CODE[8]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
ATTRIBCODE	Character	2	Code to indicate the accuracy of the attribute data
POI_ID	Character	15	Unique ID

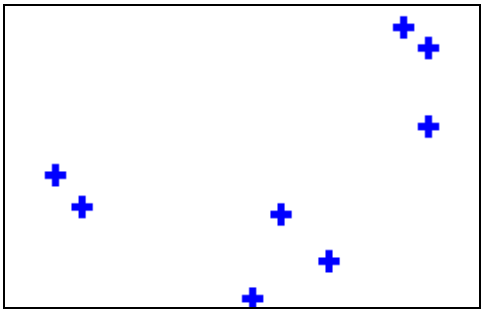
Layer Content

Includes both Private and Public golf courses as well as their locations, phone numbers and number of holes.

[8] Refer to the Appendix E: Geographical Placement of Data for more information.

Data Dictionary *(cont'd)*

Health Care (hcr)



Layer Location

\POI*AREA***hcr**

Layer Structure

Field Name	Type	Size	Description
NAME	Character	150	Health Care facility name
PREC_CODE[9]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
ATTRIBCODE	Character	2	Code to indicate the accuracy of the attribute data
POI_ID	Character	15	Unique ID (link to main POI database)

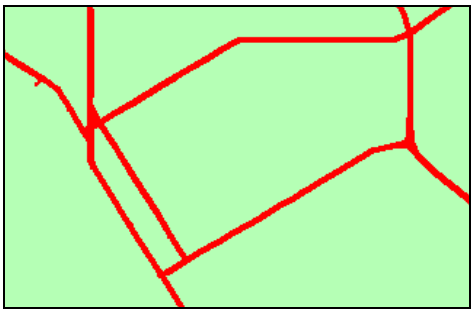
Layer Content

Includes Hospitals, Long-Term Care Centers, Nursing Stations, Outpatient Clinics and Community Health Centers.

[9] Refer to the Appendix E: Geographical Placement of Data for more information.

Data Dictionary *(cont'd)*

Primary Highway Casements (hpc)



Layer Location

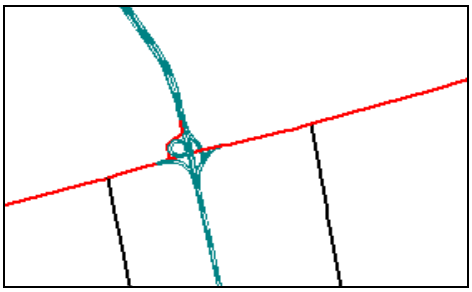
\Streets*AREA***hpc**

Layer Structure

Field Name	Type	Size	Description
STREET	Character	64	Street Title
RDS_ID	Decimal	9,0	UniqueID of related Roads (rds) segment

Data Dictionary *(cont'd)*

Major Roads and Highways (hrd)



Layer Location

\Streets*AREA***hrd**

Layer Structure

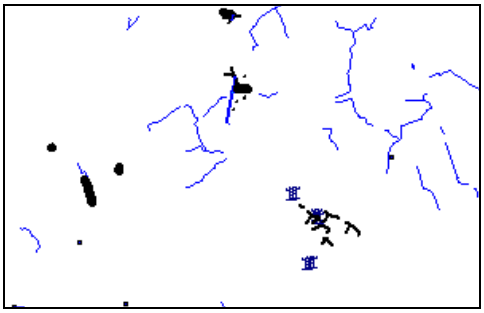
Field Name	Field Type	Field Size	Description
STREET	Character	69	Street Name
CARTO	Decimal	3,0	Cartographic Road Classification
LEFT_MUN	Character	70	Municipality
RIGHT_MUN	Character	70	Municipality
LEFT_MAF	Character	70	Municipal Amalgamation
RIGHT_MAF	Character	70	Municipal Amalgamation
LEFT_FSA	Character	3	Forward Sortation Area
RIGHT_FSA	Character	3	Forward Sortation Area
LEFT_PRV	Character	2	Provincial/Territorial Abbreviation
RIGHT_PRV	Character	2	Provincial/Territorial Abbreviation
UNIQUEID	Decimal	9,0	Unique Identifier of Street segment

Field Content

Please note that as of CanMap v8.2 the Municipality (_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **hrd** layer to the **rds_lut** layer via the UNIQUEID and RDS_ID fields.

Data Dictionary *(cont'd)*

Hydrographic Structures (hs)



Layer Location

\Topo\ *AREA***hs**

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
58	BOAT RAMP
58	BOAT RAMP: GENERIC/UNKNOWN
80	BREAKWALL/BREAKWATER
80	BREAKWATER: UNKNOWN
275	CONDUIT: ABOVEGROUND, PENSTOCK
275	CONDUIT: GROUND LEVEL, PENSTOCK
276	CONDUIT: UNDERGROUND, PENSTOCK
277	CONDUIT: ABOVEGROUND, OTHER
277	CONDUIT: GROUND LEVEL, OTHER
278	CONDUIT: UNDERGROUND, OTHER
289	CONDUIT BRIDGE: GENERIC/UNKNOWN
359	DAM
360	DAM: OTHER
361	DAM: SLUICE GATE
405	DRYDOCK
429	DYKE/LEVEE
429	DYKE/LEVEE: UNKNOWN
475	EXPOSED SHIPWRECK
486	FALLS
519	FISH LADDER
519	FISH LADDER: GENERIC/UNKNOWN
530	FISH POUND
530	FISH POUND: GENERIC/UNKNOWN
541	FLOODED AREA

Data Dictionary *(cont'd)*

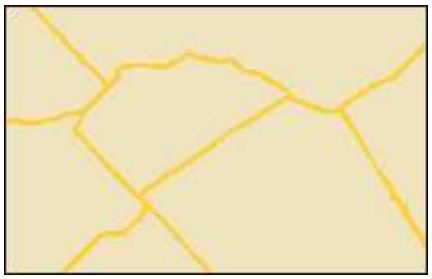
Code	Feature
651	IRRIGATION CANAL/DITCH
662	KELP: GENERIC/UNKNOWN
673	LOCK GATE: GENERIC/UNKNOWN
673	LOCK GATE
743	NAVIGABLE CANAL: ABANDONED
744	NAVIGABLE CANAL: OPERATIONAL
755	NAVIGATION BEACON
766	NAVIGATION LIGHT
766	NAVIGATIONAL AID: NAVIGATION LIGHT
767	NAVIGATIONAL AID: NAVIGATION BEACON
777	OBSTACLE IN WATER
847	PERMANENT SNOW AND ICE: OTHER
909	POND PARTITION: GENERIC/UNKNOWN
910	POND PARTITION: FISH POUND
911	POND PARTITION: RESERVOIR
912	POND PARTITION: WASTE
967	RAPIDS
979	RESERVOIR: OPEN, DRINKING WATER RESERVOIR
980	RESERVOIR: UNDERGROUND, DRINKING WATER RESERVOIR
981	RESERVOIR: OPEN,DUGOUT
982	RESERVOIR: OPEN,FILTRATION POND
1033	ROCK IN WATER
1044	ROCKY LEDGE/REEF
1044	ROCKY LEDGE/REEF: GENERIC/UNKNOWN
1108	SEAWALL
1108	SEAWALL: GENERIC/UNKNOWN
1163	SLIP
1174	SLUICE GATE
1209	SPRING
1209	SPRING: GENERIC/UNKNOWN
1453	WATER BODY: IRRIGATION CANAL
1503	WHARF
1503	WHARF: UNKNOWN
1514	WIND-OPERATED DEVICE: GENERIC/UNKNOWN
1666	LIQUIDS DEPOT/DUMPS: LIQUID WASTE, SEWAGE POND
1667	LIQUIDS DEPOT/DUMP: LIQUID WASTE, SETTLING POND
1668	LIQUIDS DEPOT/DUMP: LIQUID WASTE, UNKNOWN
1669	LIQUIDS DEPOT/DUMP: WATER, OTHER
1670	LIQUIDS DEPOT/DUMP: WATER, FILTRATION POND
1671	LIQUID DEPOT/DUMP: WATER, DRINKING WATER
1681	HAZARD TO NAVIGATION: ROCK IN WATER
1682	HAZARD TO NAVIGATION: EXPOSED SHIPWRECK
1683	HAZARD TO NAVIGATION: OBSTACLE IN WATER

Data Dictionary *(cont'd)*

Code	Feature
1701	WATER DISTURBANCE: FALLS
1702	WATER DISTURBANCE: RAPID
1710	UNDERGROUND RESERVOIR: GENERIC/UNKNOWN

Data Dictionary *(cont'd)*

Secondary Highway Casements (hsc)



Layer Location

\Streets\ *AREA***hsc**

Layer Structure

Field Name	Type	Size	Description
STREET[10]	Character	64	Street Title
RDS_ ID	Decimal	9,0	UniqueId of related Roads (rds) segment

[10] For more information refer to Appendix C: Street Types and Street Directions

Data Dictionary *(cont'd)*

Highways (hwy)

Layer Location

\Streets*AREA***hwy**

Layer Structure

Field Name	Type	Size	Description
STREET[11]	Character	69	Street Name
CARTO[12]	Decimal	3,0	Cartographic Road Classification
LEFT_MUN	Character	70	Municipality
RIGHT_MUN	Character	70	Municipality
LEFT_MAF	Character	70	Municipal Amalgamation
RIGHT_MAF	Character	70	Municipal Amalgamation
LEFT_FSA	Character	3	Forward Sortation Area
RIGHT_FSA	Character	3	Forward Sortation Area
LEFT_PRV	Character	2	Provincial/Territorial Abbreviation
RIGHT_PRV	Character	2	Provincial/Territorial Abbreviation
UNIQUEID	Decimal	9,0	Unique Identifier of Street segment

Field Content

Please note that as of CanMap v8.2 the Municipality (_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **hwy** layer to the **rds_lut** layer via the UNIQUEID and RDS_ID fields.

[11] For more information refer to Appendix C: Street Types and Street Directions
[12] For more information refer to Appendix D: Cartographic Road and Rail Classifications

Data Dictionary *(cont'd)*

Hydrography (hy)

Layer Location

\Topo*AREA***hy***

Layer Structure

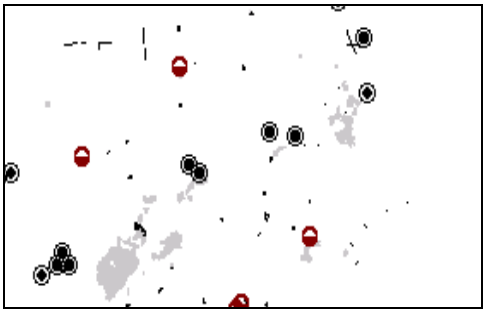
Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
371	DISAPPEARING STREAM: OTHER
372	DISAPPEARING STREAM: SINKHOLE
1450	WATERBODY: INTERMITTENT/SLOUGH
1451	WATERBODY: IN STRING BOG
1452	WATERBODY: OTHER
1454	WATERBODY: FLOODED AREA
1463	WATERCOURSE: UNKNOWN

Data Dictionary *(cont'd)*

Industrial and Resource (ir)



Layer Location
\Topo*AREA***ir**

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
34	AUTO WRECKER: GENERIC/UNKNOWN
34	AUTO WRECKER
347	CUT LINE: FIREBREAK
348	CUT LINE: OTHER
417	DUMP: ABANDONED
418	DUMP: OTHER
695	LUMBER YARD
695	LUMBER YARD: GENERIC/UNKNOWN
707	MINE: ABANDONED,N/A
708	MINE: OPERATIONAL,OPEN-PIT
709	MINE: OPERATIONAL,OTHER
788	OIL/GAS FACILITIES
788	GAS AND OIL FACILITIES: GENERIC/UNKNOWN
793	OIL OR GAS FIELD: GENERIC/UNKNOWN
898	PIT
923	QUARRY
1231	STOCKPILE
1242	STOCKYARD
1242	STOCKYARD: GENERIC/UNKNOWN
1435	WASTE: OTHER, LIQUID
1436	WASTE: SETTLING POND,LIQUID
1437	WASTE: SEWAGE DISPOSAL POND,LIQUID
1438	WASTE: OTHER,SOLID

Data Dictionary *(cont'd)*

Code	Feature
1656	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, ABANDONED
1657	SOLIDS DEPOT/DUMP: DOMESTIC, WASTE, OPERATIONAL
1658	SOLIDS DEPOT/DUMP: INDUSTRIAL, WASTE, UNKNOWN
1659	SOLIDS DEPOT/DUMP: INDUSTRIAL, STOCKPILE, UNKNOWN
1690	MINING AREA: UNKNOWN, UNKNOWN, UNKNOWN
1691	MINING AREA: PIT, OPEN PIT, OPERATIONAL
1692	MINING AREA: QUARRY, OPEN PIT, OPERATIONAL
1693	MINING AREA: MINE, OPEN, PIT, OPERATIONAL
1694	MINING AREA: MINE, UNKNOWN, ABANDONED
1697	MINING AREA: MINE, UNDERGROUND, OPERATIONAL

Data Dictionary *(cont'd)*

Land Feature Labels (ll)

Layer Location

\Topo*AREA***ll***

Layer Structure

Field Name	Type	Size	Description
NAME	Character	100	Feature Name
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
1851	TOPONYM: PLACE
1854	TOPONYM: RELIEF
1855	TOPONYM: TRANSPORT

Data Dictionary *(cont'd)*

Canada\USA Roads Linkages (lnk)

Layer Location

\Streets*AREA***lnk**

Layer Structure

Field Name	Type	Size	Description
RDS_ID	Decimal	9,0	UniqueId of related Roads (rds) segment
CAN_STREET	Character	69	Canadian Street at Roads Linkage
PROV	Character	2	Provincial/Territorial Abbreviation
USA_STREET	Character	69	American Street at Roads Linkage
STATE	Character	2	State Abbreviation
PORT_ENTRY	Character	100	Port of Entry Name (where applicable)
LONGITUDE	Decimal	11,6	Longitude of Roads Linkage
LATITUDE	Decimal	11,6	Latitude of Roads Linkage

Data Dictionary *(cont'd)*

Local Road Casements (lrc)

Layer Location

\Streets*AREA***lrc**

Layer Structure

Field Name	Type	Size	Description
STREET[13]	Character	64	Street Title
RDS_ ID	Decimal	9,0	UniqueId of related Roads (rds) segment

[13] For more information refer to Appendix C: Street Types and Street Directions

Data Dictionary *(cont'd)*

Land Use (lu)

Layer Location

\Topo*AREA***lu**

Layer Structure

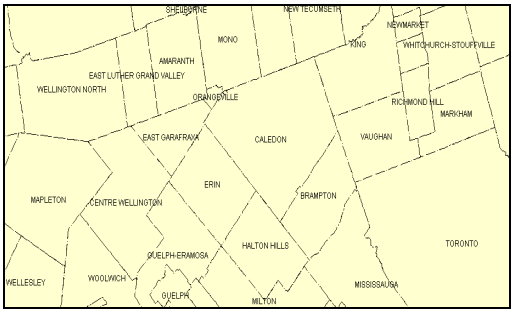
Field Name	Type	Size	Description
CATEGORY	Character	40	Category of Landuse

Field Content

Landuse Categories: Commercial; Government and Institutional; Open Area; Parks and Recreational; Residential; Resource and Industrial; Waterbody.

Data Dictionary *(cont'd)*

Municipal Amalgamation File (maf)



Layer Location

\MAF*AREA***maf**

Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	70	Municipality name
PROV	Character	2	Provincial/Territorial Abbreviation.
TYPE	Character	3	Municipality type
EFF_DATE	Character	8	Date the municipal amalgamation change comes into effect. Date appears in YYYYMMDD format. Null records indicate that amalgamations have not occurred.

Layer Content

The Municipal Amalgamation File (MAF) is a supplementary municipality boundary with CanMap® Streetfiles and CanMap® RouteLogistics and reflects recent changes to any amalgamated municipal boundaries, their subsequent changes to name, municipality type and date of amalgamation. An amalgamation is defined as a consolidation of two or more entire municipalities.

Derived from Statistics Canada 2001Census the Municipal Amalgamation file contains:

- Municipal amalgamations that have occurred since the 2001 Census
- Municipal amalgamations based on provincial/territorial sources
- Census Subdivision Name and Type revisions from the 2001 Census

Municipality type refers to the census subdivision (CSD) type definition given to a municipality by Statistics Canada. "CSD" is the general term for municipalities (as determined by provincial legislation) or areas treated as municipal equivalents for statistical purposes (for example, Indian reserves, Indian settlements and unorganized territories).

Census subdivisions (CSDs) are classified into 46 types according to official designations adopted by provincial or federal authorities." The following table provides a list of CSD types and their abbreviations:[14]

[14] Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

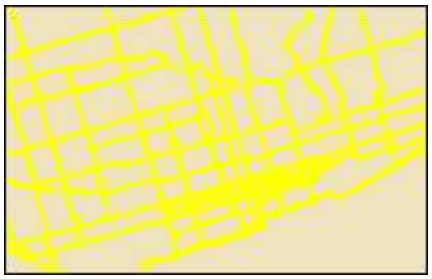
Data Dictionary *(cont'd)*

Type	Description
C	City
CC	Chartered Community
CM	County (Municipality)
COM	Community
CT	Canton (Municipalité de)
CU	Cantons unis (Municipalité de)
DM	District Municipality
HAM	Hamlet
ID	Improvement District
IGD	Indian Government District
IM	Island Municipality
LGD	Local Government District
LOT	Township and Royalty
M	Municipalité
MD	Municipal District
NH	Northern Hamlet
NL	Nisga'a Land
NV	Northern Village
NVL	Nisga'a Village
P	Paroisse (Municipalité de)
PAR	Parish
R	Indian Reserve / Réserve indienne
RC	Rural Community

Type	Description
RDA	Regional District Electoral Area
RG	Region
RGM	Regional Municipality
RM	Rural Municipality
RV	Resort Village
S-E	Indian Settlement / Établissement indien
SA	Special Area
SCM	Subdivision of County Municipality
SET	Settlement
SM	Specialized Municipality
SUN	Subdivision of Unorganized
SV	Summer Village
T	Town
TI	Terre inuite
TL	Teslin Land
TP	Township
TR	Terres réservées
UNO	Unorganized / Non-oraganisé
V	Ville
VC	Village cri
VK	Village naskapi
VL	Village
VN	Village nordique

Data Dictionary *(cont'd)*

Major Roads Casements (mrc)



Layer Location

\Streets*AREA***mrc**

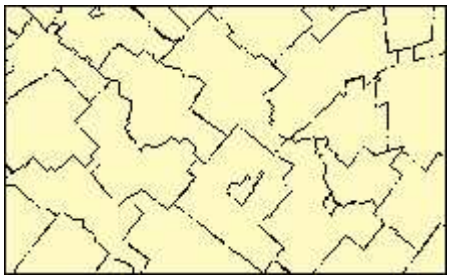
Layer Structure

Field Name	Type	Size	Description
STREET[15]	Character	64	Street Title
RDS_ ID	Decimal	9,0	UniqueId of related Roads (rds) segment

[15] For more information refer to Appendix C: Street Types and Street Directions

Data Dictionary *(cont'd)*

Municipality Boundaries (mun)



Layer Location

\Streets*AREA***mun**

Layer Structure

Field Name	Type	Size	Description
NAME	C	70	Municipality Name
TYPE	C	3	Municipality Type
POP2001	D	8,0	2001 Census Population Count
DWELL2001	D	7,0	2001 Census Dwelling Count
AREA_SQKM	D	12,4	Area (square kilometers) from Statistics Canada Land Base
POP_SQKM	D	13,4	Population Density (per square kilometer)
PROV	C	2	Provincial/Territorial Abbreviation

Layer Content

The Municipalities layer is comprised of political administrative entities such as cities, towns, or villages. The DMTI Spatial Municipalities layer corresponds to the Statistics Canada 2001 Census Subdivisions (CSD).

Field Content

Type

The Municipality Type is used to help distinguish Municipalities having the same name from one another. The Municipality Types correspond to the Statistics Canada 2001 Census Subdivision (CSD) Types.

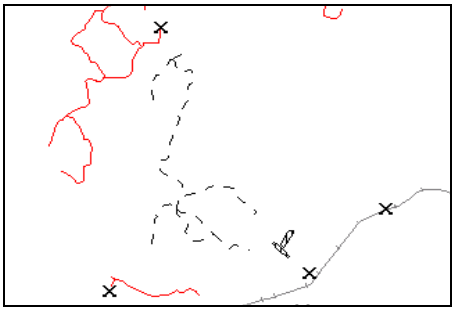
Data Dictionary *(cont'd)*

Type	Description
C	City – Cité
CC	Chartered Community
CM	County (Municipality)
COM	Community
CT	Canton (Municipalité de)
CU	Cantons unis (Municipalité de)
DM	District Municipality
HAM	Hamlet
ID	Improvement District
IGD	Indian Government District
IM	Island Municipality
LGD	Local Government District
LOT	Township and Royalty
M	Municipalité
MD	Municipal District
NH	Northern Hamlet
NL	Nisga'a Land
NV	Northern Village
NVL	Nisga'a Village
P	Paroisse (Municipalité de)
PAR	Parish
R	Indian Reserve - Réserve indienne
RC	Rural Community
RDA	Regional District Electoral Area
RG	Region
RGM	Regional Municipality
RM	Rural Municipality
RV	Resort Village
S-E	Indian Settlement - Établissement indien
SA	Special Area
SCM	Subdivision of County Municipality
SET	Settlement
SM	Specialized Municipality
SUN	Subdivision of Unorganized
SV	Summer Village

Type	Description
T	Town
TI	Terre inuite
TL	Teslin Land
TP	Township
TR	Terres réservées
UNO	Unorganized - Non organisé
V	Ville
VC	Village cri
VK	Village naskapi
VL	Village
VN	Village nordique

Data Dictionary *(cont'd)*

Other Transportation (ot)



Layer Location

\Topo*AREA***ot***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type
NAME	Character	100	Feature Name

Layer Content

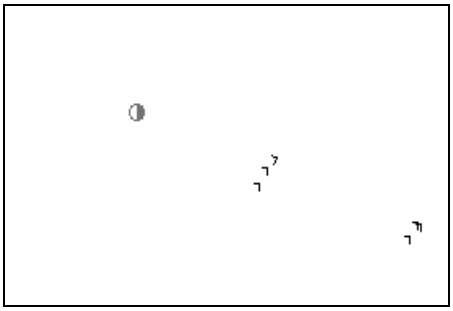
Code	Feature
10	AERIAL CABLEWAY: GENERIC/UNKNOWN
11	AERIAL CABLEWAY: OTHER
12	AERIAL CABLEWAY: SKI LIFT
45	BARRIER/GATE: GENERIC/UNKNOWN
46	BARRIER/GATE: OTHER
47	BARRIER/GATE: TOLLGATE
440	EMBANKMENT: GENERIC/UNKNOWN
441	EMBANKMENT: OTHER
442	EMBANKMENT: CAUSEWAY
552	FOOTBRIDGE: GENERIC/UNKNOWN
563	FORD: GENERIC/UNKNOWN
1066	RUNWAY: GENERIC/UNKNOWN
1067	RUNWAY: AIRFIELD, UNKNOWN, UNKNOWN
1068	RUNWAY: AIRFIELD, OPERATIONAL, HARD SURFACE
1069	RUNWAY: AIRFIELD, OPERATIONAL, LOOSE SURFACE
1070	RUNWAY: AIRPORT, OPERATIONAL, HARD SURFACE
1071	RUNWAY: UNKNOWN, ABANDONED, UNKNOWN
1072	RUNWAY: AIRPORT, OPERATIONAL, LOOSE SURFACE
1185	SNOWSHED: GENERIC/UNKNOWN
1376	TUNNEL: GENERIC/UNKNOWN
1387	TURNTABLE: GENERIC/UNKNOWN
1720	HAZARD TO AIR NAVIGATION: GENERIC/UNKNOWN

1721	HAZARD TO AIR NAVIGATION: PARABOLIC ANTENNA
1722	HAZARD TO AIR NAVIGATION: CHIMNEY
1723	HAZARD TO AIR NAVIGATION: TANK
1724	HAZARD TO AIR NAVIGATION: CROSS
1725	HAZARD TO AIR NAVIGATION: WIND-OPERATED DEVICE
1726	HAZARD TO AIR NAVIGATION: CRANE
1727	HAZARD TO AIR NAVIGATION: WATER DISTURBANCE
1728	HAZARD TO AIR NAVIGATION: BRIDGE
1729	HAZARD TO AIR NAVIGATION: NAVIGATIONAL AID
1730	HAZARD TO AIR NAVIGATION: AERIAL CABLEWAY
1731	HAZARD TO AIR NAVIGATION: TOWER

The OT layer also includes the ‘PATH’. The PATH is downtown Toronto's underground walkway and links various office towers, parking garages, subway stations, department stores, hotels, tourist attractions, and the Union Station railway terminal.

Data Dictionary *(cont'd)*

Physiography (ph)



Layer Location

\Topo*AREA***ph***

Layer Structure

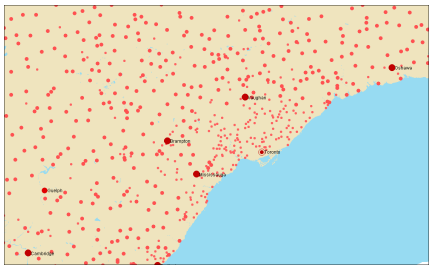
Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
239	CAVE ENTRANCE
239	CAVE ENTRANCE: GENERIC/UNKNOWN
394	DRY RIVER BED
394	DRY RIVER BED: GENERIC/UNKNOWN
451	ESKER
451	ESKER: GENERIC/UNKNOWN
574	FORESHORE FLATS
731	MORAINE: GENERIC/UNKNOWN
1083	SAND: OTHER
1084	SAND: UNDERWATER

Data Dictionary *(cont'd)*

Populated Placenames (ppn)



Layer Location

\PPN*AREA***ppn**

Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	68	Placename
PROV	Character	2	Provincial/Territorial Abbreviation
LONGITUDE	Decimal	11,6	Longitude of Populated Placename
LATITUDE	Decimal	11,6	Latitude of Populated Placename
PPN_CODE	Decimal	3,0	Populated Placename Code
PREC_CODE	Decimal	2,0	Code indicating the positional accuracy or precision of the geocoded feature
MJR_CITY	Decimal	1,0	Identifies cities with populations > 100,000
CAPITAL	Decimal	1,0	Identifies provincial capital cities and the national capital
PRCDCSD	Character	8	2001 Census Subdivision (CSD) code in which the placename is located
CSD_NAME	Character	68	2001 Census Subdivision (CSD) name in which the placename is located
CSD_POP01	Decimal	8,0	Census Subdivision (CSD) population (2001) in which the placename is located

Layer Content

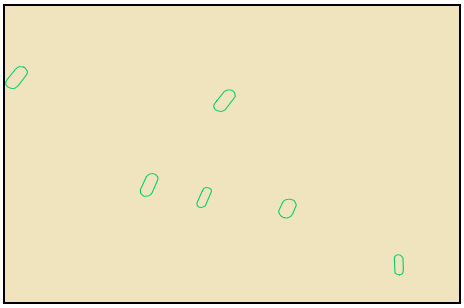
Based on the Canadian Geographic Names Database[16], the CanMap Populated Placenames file provides a rich and extensive layer of cities, towns, villages and communities across Canada. CanMap Populated Placenames have been enhanced by verifying and aligning points with CanMap® Streetfiles.

PPN_Code	Type of Populated Placename
101	Capital City
100	Major City
1	Minor City
2	Town or Village
3	Community (includes rural communities, small village, hamlets, settlements)
4	Urban or Suburban Community

[16] Source: Natural Resources Canada, Canadian Geographical Names Database (CGNDB), 1999

Data Dictionary (cont'd)

Parks & Recreation Lines (prl)



Layer Location

\Topo*AREA***prl***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Park or Recreational Feature Code
FEATURE	Character	76	Park or Recreational Feature Type
NAME	Character	68	Park or Recreational Feature Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks
CLASS	Character	40	Park or Recreational Feature Classification example wilderness, heritage or waterway
PROV	Character	2	Provincial/Territorial Abbreviation

Layer Content

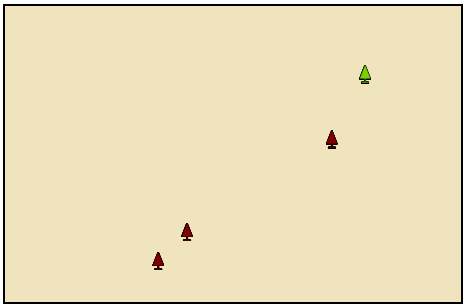
CanMap Parks & Recreation lines layer represents over 2,600 recreation line features across Canada.

Features - Recreational Features

Code	Feature
1198	Sports Track/Race Track: Other

Data Dictionary (cont'd)

Parks & Recreation Points (prp)



Layer Location

\Topo*AREA***prp***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Park or Recreational Feature Code
FEATURE	Character	76	Park or Recreational Feature Type
NAME	Character	68	Park or Recreational Feature Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks
CLASS	Character	40	Park or Recreational Feature Classification example wilderness, heritage or waterway
PROV	Character	2	Provincial/Territorial Abbreviation

Layer Content

CanMap Parks & Recreation points layer represents over 150 national, provincial and territorial parks and over 2,300 recreation areas across Canada.

Features - Parks

Code	Feature
2025	Provincial Parks
2026	Territorial Parks

Features - Recreational

Code	FEATURE
206	Camp: Generic/unknown
217	Campground: Generic/unknown
250	Cemetery: Generic/unknown
607	Golf Driving Range: Generic/unknown
684	Lookout: Generic/unknown
640	Historic Site/Point of Interest
858	Picnic Site: Generic/unknown
1525	Zoo: Generic/unknown
1672	Liquids Depot/dump: Water, Swimming Pool

Data Dictionary (cont'd)

Parks Features - Types

Type
Provincial Park
Territorial Park

Parks Features - Classes

Class
Natural Environment
Day Use
Nature Reserve
Recreation/Heritage
Wildlife

Provincial Parks Duplicate Naming

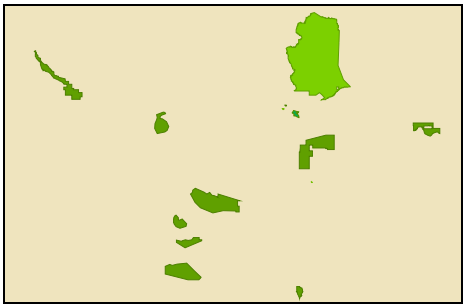
Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries or park names are shared by more than one province:

Park Name	Prov	Prov	Description
Long Point Provincial Park	NS	ON	Park name shared by more then one province
Ten Mile Lake Provincial Park	NS	BC	Park name shared by more then one province
White Lake Provincial Park	ON	BC	Park name shared by more then one province in the points layer

CanMap Parks & Recreation does not represent legal park boundaries. At this time discrepancies may exist between the CanMap Park boundaries and the CANwat boundaries.

Data Dictionary (cont'd)

Parks & Recreation Regions (prr)



Layer Location

\Topo*AREA***prr***

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Park or Recreational Feature Code
FEATURE	Character	76	Park or Recreational Feature Type
NAME	Character	68	Park or Recreational Feature Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks
CLASS	Character	40	Park or Recreational Feature Classification example wilderness, heritage or waterway
PROV	Character	2	Provincial/Territorial Abbreviation

Layer Content

CanMap Parks & Recreation regions layer represents over 1,600 national, provincial and territorial parks and over 14,000 recreation areas across Canada.

Features - Park Features

Code	Feature
2021	National Parks Polygons
2022	National Wildlife Area
2023	Migratory Bird Sanctuary
2025	Provincial Parks
2026	Territorial Parks
2027	Other Parks

Data Dictionary (cont'd)

Features - Recreational Features

Code	Feature
23	Amusement Park: Generic/unknown
69	Botanical Garden: Generic/unknown
217	Campground: Generic/unknown
250	Cemetery: Generic/unknown
383	Drive-in Theatre: Generic/unknown
463	Exhibition Ground: Fairground
464	Exhibition Ground: Other
596	Golf Course: Generic/unknown
607	Golf Driving Range: Generic/unknown
640	Historic Site/Point of Interest
684	Lookout: Generic/unknown
823	Parks/sports Field: Generic/unknown
858	Picnic Site: Generic/unknown
1197	Sports Track/Race Track/Drag Strip
1525	Zoo: Generic/unknown
1672	Liquids Depot/dump: Water, Swimming Pool

Parks Features - Types

Type
National Park
Provincial Park
Territorial Park
Park Reserve
Ecological Reserve
Wildland Park
Wilderness Area
Wilderness Park
Protected Area
Park Area
Recreation Area
Grizzly Bear Sanctuary
Natural Area
National Wildlife Area
Migratory Bird Sancurary

Data Dictionary (cont'd)

Parks Features - Classes

Class
Wilderness
Natural Environment
Heritage
Day Use
Camping
Waterway
Recreation
Nature Reserve
Historical
Recreation/Heritage
Ecological
Conservation
Education

Federal Parks Duplicate Naming

Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries are shared by more than one province:

Park Name	Prov	Prov	Description
St. Clair National Wildlife Area	ON	SK	Park boundary shared by more then one province
Tuktut Nogait National Park	NU	NT	Park boundary shared by more then one province
Wood Buffalo National Park	AB	NT	Park boundary shared by more then one province

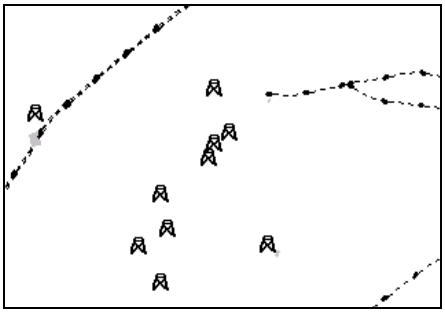
Provincial Parks Duplicate Naming

Duplicate naming exists within the Parks & Recreation files. Duplicates exist in the following parks where park boundaries or park names are shared by more than one province:

Park Name	Prov	Prov	Description
Cypress Hills Provincial Park	AB	SK	Park boundary shared by more then one province
Duck Mountain Provincial Park	SK	MB	Park name shared by more then one province
Long Lake Provincial Park	NS	AB	Park name shared by more then one province
Long Point Provincial Park	NS	ON	Park name shared by more then one province
Mara Provincial Park	ON	BC	Park name shared by more then one province
Sandbanks Provincial Park	ON	NL	Park name shared by more then one province
Silver Lake Provincial Park	ON	BC	Park name shared by more then one province
Ten Mile Lake Provincial Park	NS	BC	Park name shared by more then one province
White Lake Provincial Park	ON	BC	Park name shared by more then one province

Data Dictionary *(cont'd)*

Pipelines and Transmission (pt)



Layer Location
\Topo\ *AREA***pt**

Layer Structure

Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

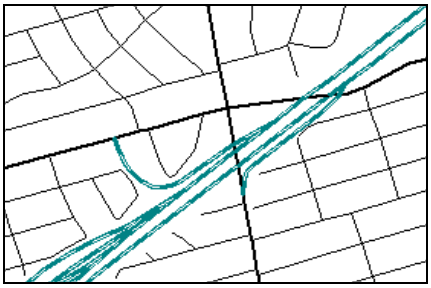
Code	Feature
881	PIPELINE: NATURAL GAS, ABOVEGROUND
881	PIPELINE: NATURAL GAS ,ABOVEGROUND
882	PIPELINE: NATURAL GAS,UNDERGROUND
882	PIPELINE: NATURAL GAS, UNDERGROUND
883	PIPELINE: OIL,ABOVEGROUND
883	PIPELINE: OIL ABOVEGROUND
884	PIPELINE: OIL UNDERGROUND
884	PIPELINE: OIL,UNDERGROUND
885	PIPELINE: SEWAGE/WASTE, ABOVEGROUND
885	PIPELINE: SEWAGE/WASTE,ABOVEGROUND
886	PIPELINE: UNKNOWN,ABOVEGROUND
886	PIPELINE: UNKNOWN, ABOVEGROUND
887	PIPELINE: UNKNOWN,UNDERGROUND
887	PIPELINE: UNKNOWN, UNDERGROUND
890	PIPELINE: MULTIUSE, ABOVEGROUND
891	PIPELINE: MULTIUSE, UNDERGROUND
1318	TRANSFORMER STATION (ELECTRIC)
1318	TRANSFORMER STATION: GENERIC/UNKNOWN
1330	TRANSMISSION LINE: POWER,OTHER
1330	TRANSMISSION LINE: POWER, OTHER
1331	TRANSMISSION LINE: POWER, SUBMARINE

Data Dictionary *(cont'd)*

Code	Feature
1331	TRANSMISSION LINE: POWER,SUBMARINE
1332	TRANSMISSION LINE: TELEPHONE,OTHER
1332	TRANSMISSION LINE: TELEPHONE, OTHER
1398	VALVE: GENERIC/UNKNOWN
1398	VALVE

Data Dictionary *(cont'd)*

Roads (rds)



Layer Location

\Streets*AREA***rds**

Layer Structure

Field Name	Type	Size	Description
STREET[17]	Character	69	Street Title (comprised of PRETYPE, PREDIR, STREETNAME, SUFTYPE, SUFDIR)
FROMLEFT	Decimal	6,0	Address on the Left side at the From end of the street segment
TOLEFT	Decimal	6,0	Address on the Left side at the To end of the street segment
FROMRIGHT	Decimal	6,0	Address on the Right side at the From end of the street segment
TORIGHT	Decimal	6,0	Address on the Right side at the To end of the street segment
PREDIR	Character	2	Prefix Direction component of the Street Title (e.g. **W** 5 St)
PRETYPE	Character	10	Prefix StreetType component of the Street Title (e.g. **Rue** Jean)
STREETNAME	Character	45	StreetName component of the Street Title (e.g. **John** St E)
SUFTYPE	Character	10	Suffix StreetType component of the Street Title (e.g. John **St** E)
SUFDIR	Character	2	Suffix Direction component of the Street Title (e.g. John St **E**)
CARTO[18]	Decimal	3,0	Cartographic Road Classification
LEFT_MUN	Character	70	Municipality
RIGHT_MUN	Character	70	Municipality
LEFT_MAF	Character	70	Municipal Amalgamation
RIGHT_MAF	Character	70	Municipal Amalgamation
LEFT_FSA	Character	3	Forward Sortation Area
RIGHT_FSA	Character	3	Forward Sortation Area
LEFT_PRV	Character	2	Province (Abbreviation)
RIGHT_PRV	Character	2	Province (Abbreviation)
UNIQUEID	Decimal	9,0	Unique Identifier of Street segment

Note: Address fields contain only zeros in Unaddressed CanMap Streetfiles.

Field Content

Please note that as of CanMap v8.2 the Municipality (_MUN) fields are attributed with 2001 Census based Municipality names. 1996 Census based Municipality names can be obtained by linking the **rds** layer to the **rds_lut** layer via the UNIQUEID and RDS_ID fields. ESRI users should also note that as of CanMap v8.2 all geocoding indexes have been created using 2001 Census based Municipality names.

[17] For more information refer to Appendix C: Street Types and Street Directions
[18] For more information refer to Appendix D: Cartographic Road and Rail Classifications

Data Dictionary *(cont'd)*

Roads Look Up Table (rds_lut)[19]

Layer Location

\Streets*AREA***rds_lut**

Layer Structure

Field Name	Type	Size	Description
RDS_ID	Decimal	9,0	UniqueId of related Roads (rds) segment
ALIAS_NAME	Character	69	Alternate Street Name
FORMERNAME[20]	Character	69	Former Provincial Hwy Name
HWY_NUM	Character	20	Highway Number(s) (e.g. Highway 404)
HWY_NUMNAM	Character	69	Road Numeric Name (e.g. Regional Rd 4)
HWY_NAME	Character	69	Highway Name Non-Numeric (e.g. Don Valley Pky)
RD_NUM	Character	20	Road Number (e.g. 4)
RD_NUMNAM	Character	69	Road Numeric Name (e.g. Regional Rd 4)
RD_NAME	Character	69	Road Name Non-Numeric (e.g. Taunton Rd W)
ALASKAHWY	Decimal	1,0	Alaskan Highway flag
CARIBOOHWY	Decimal	1,0	Cariboo Highway flag
CRWSNSTHWY	Decimal	1,0	Crowsnest Highway flag
DEMPSTRHWY	Decimal	1,0	Dempster Highway flag
JOHNHRTHWY	Decimal	1,0	John Hart Highway flag
KLONDKEHWY	Decimal	1,0	Klondike Highway flag
MCKNZIEHWY	Decimal	1,0	Mackenzie Highway flag
TRNSCDAHWY	Decimal	1,0	TransCanada Highway Flag
YELOWHDHWY	Decimal	1,0	Yellow Head Highway Flag
TOLL_RD	Decimal	1,0	Toll Road Flag
BRIDGE	Decimal	1,0	Bridge Flag
TUNNEL	Decimal	1,0	Tunnel Flag
BRUNNELNAM	Character	69	Bridge/Tunnel Name
TRAILNAME	Character	100	Trail Name
TRAILTYPE	Character	50	Trail Type
TRAILCLASS	Character	20	Trail Class
TRAILCODE	Decimal	4,0	Trail Code
L_MUN_96	Character	68	Municipality (1996 Census based)
R_MUN_96	Character	68	Municipality (1996 Census based)

[19] For more information on joining the rds_lut Table to the rds Layer refer to Appendix F: Joining the rds Layer and rds_lut Table
[20] Applicable only in Ontario

Trail Classes, Types and Codes

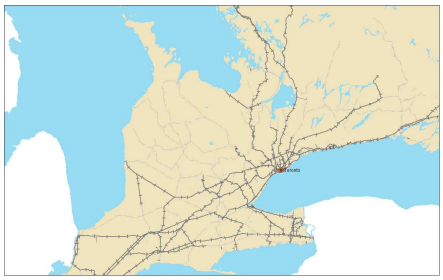
TrailCode	TrailType	TrailClass
1000	OTHER PARK	PARK
1001	NATIONAL PARK	PARK
1002	PROVINCIAL PARK	PARK
1003	MUNICIPAL PARK	PARK
1004	CONSERVATION AREA	PARK
1005	NATIONAL HISTORIC SITE	PARK
1006	WILDLIFE/NATURE SANCTUARY	PARK
1007	EXHIBITION GROUNDS	PARK
2000	OTHER RECREATIONAL	RECREATIONAL
2001	HIKING/WALKING	RECREATIONAL
2002	BIKING	RECREATIONAL
2003	RIDING	RECREATIONAL
2004	SNOWMOBILE	RECREATIONAL
2005	SKIING	RECREATIONAL
2006	GOLF COURSE	RECREATIONAL
2007	PORTAGE	RECREATIONAL
3000	OTHER PRIVATE	PRIVATE
3001	TOWNHOUSE/CONDOMINIUM	PRIVATE
3002	SHOPPING MALL	PRIVATE
3003	TRAILER PARK	PRIVATE
3004	LOGGING ROAD	PRIVATE
3005	CEMETERY	PRIVATE
3006	ALLEY WAY	PRIVATE
3007	AIRPORT/HELIPORT	PRIVATE
3008	ABANDONED RAILWAY	PRIVATE
3009	INDUSTRIAL	PRIVATE
3010	FOREST SERVICE ROAD	PRIVATE
3011	REST AREA	PRIVATE
3012	SERVICE STATION	PRIVATE
3013	ABANDONED ROAD	PRIVATE
3014	COUNTRY CLUB	PRIVATE
3015	HOTEL/MOTEL	PRIVATE
3016	RETAIL/OFFICE	PRIVATE
4000	OTHER EMERGENCY SERVICES	EMERGENCY SERVICES
4001	HOSPITAL	EMERGENCY SERVICES
4002	FIRE ACCESS	EMERGENCY SERVICES
4003	EMERGENCY SERVICES ROAD	EMERGENCY SERVICES

Trail Classes, Types and Codes (con't)

TrailCode	TrailType	TrailClass
5000	OTHER EDUCATIONAL	EDUCATIONAL
5001	PRIVATE ELEMENTARY SCHOOL	EDUCATIONAL
5002	PUBLIC ELEMENTARY SCHOOL	EDUCATIONAL
5003	PRIVATE HIGHSCHOOL	EDUCATIONAL
5004	PUBLIC HIGHSCHOOL	EDUCATIONAL
5005	UNIVERSITY	EDUCATIONAL
5006	COLLEGE	EDUCATIONAL
5007	MILITARY SCHOOL	EDUCATIONAL
5008	SEPARATE ELEMENTARY SCHOOL	EDUCATIONAL
5009	SEPARATE HIGHSCHOOL	EDUCATIONAL
6000	OTHER GOVERNMENT	GOVERNMENT
6001	EXPERIMENTAL FARM	GOVERNMENT
6002	DEPARTMENT OF NATIONAL DEFENCE	GOVERNMENT
6003	CORRECTIONAL FACILITY	GOVERNMENT
6004	WEIGH STATION	GOVERNMENT
6005	PEDESTRIAN WALK WAY	GOVERNMENT
6006	POLICE TRAINING FACILITY	GOVERNMENT
6007	SEWAGE OR WATER TREATMENT FACILITY	GOVERNMENT
6008	NO PUBLIC ACCESS/BUS ROUTE	GOVERNMENT
7000	LIMITED USE ROAD: OTHER	LIMITED USE ROAD
7001	LIMITED USE ROAD: WINTER	LIMITED USE ROAD
7002	LIMITED USE ROAD: DRY WEATHER	LIMITED USE ROAD
7003	LIMITED USE ROAD: CART TRACK	LIMITED USE ROAD

Data Dictionary *(cont'd)*

Railway and Transit Lines (rl)



Layer Location

\Rail*AREA***rl**

Layer Structure

Field Name	Type	Size	Description
OWNER	Char	68	Railway Owner/Operator
CARTO	Decimal	3,0	Cartographic Rail Classification
ACCESS1	Char	50	Alternate Railway Owner/Operator
ACCESS2	Char	50	Alternate Railway Owner/Operator
ACCESS3	Char	50	Alternate Railway Owner/Operator
TRS_RTE	Char	68	Transit Route
RTE_TYPE	Char	3	Route Type
PROV	Char	2	Province
US_RAILCO	Char	15	American owner/operator of connecting US railway line
US_STP	Char	50	American railway station of entry on connecting US railway line
US_STATE	Char	2	American State the connecting US railway line enters
CR	Decimal	1,0	Transit: Commuter Rail Flag
LRT	Decimal	1,0	Transit: Light Rail Flag
RT	Decimal	1,0	Transit: Rapid Transit Flag
CODE	Decimal	4,0	Classification Code
FEATURE	Char	76	Railway Feature Type
RL_ID	Decimal	9,0	Railway unique identifier (Unique ID)

- Rail Transit lines have been integrated with the Railway lines. The TRS_TYPE and RTE_TYPE fields have been added to the Railway lines in order to accomadate the transit data. Three flag fields CR, LRT and RT have been included so that Rail Transit lines can be queried out to create a separate transit layer. In cases where a transit line has shared access with a railway line, the OWNER field will contain the railway data and the transit data will be contained in one of the ACCESS fields.

- The MAIN, SIDETRACK and ABANDONED fields have been removed and replaced by a new CARTO field that includes rail classifications for each of those categories and a transit carto. See Appendix A : Cartographic Road and Rail Classifications for carto descriptions.

Layer Content

CODE	FEATURE
91	BRIDGE
935	RAILWAY: ABANDONED
961	RAILWAY: SPECIAL, OTHER, OPERATIONAL, SINGLE
962	RAILWAY: OPERATIONAL
963	RAILWAY: OPERATIONAL, SIDETRACK
1376	TUNNEL

Transit Definitions

Commuter rail (CR) is a transit railway within urbanized areas, or between urbanized areas and outlying suburbs and regions within commuting distance. These transit lines are often shared with Railway lines.

Rapid Transit (RT) (**metro**, **subway)** is a high speed transit railway at ground level or below within urbanized areas.

Light rail (LRT) (**streetcar**, **tramway**, **automated guideway transit**) is a transit railway that operates on a loop within the central business district of a city or connecting the business district to its suburbs.

Data Dictionary *(cont'd)*

Rail Stops (rs) ** Integrated into Transportation Stops (trs) for v8.1 **

Rail Transit - Lines (rtl) ** Integrated into Railway and Transit Lines (rl) for v8.1 **

Rail Transit - Points (rtp) ** Integrated into Transportation Stops (trs) for v8.1 **

Data Dictionary *(cont'd)*

Trail Casements (tlc)

Layer Location

\Streets*AREA***tlc**

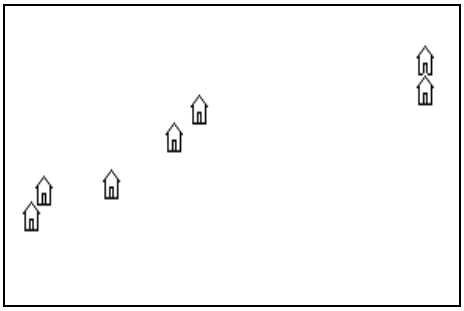
Layer Structure

Field Name	Type	Size	Description
STREET[21]	Character	64	Street Title
RDS_ID	Decimal	9,0	UniqueId of related Roads (rds) segment

[21] For more information refer to Appendix C: Street Types and Street Directions

Data Dictionary *(cont'd)*

Toll Booths (tol)



Layer Location

\POI*AREA***tol**

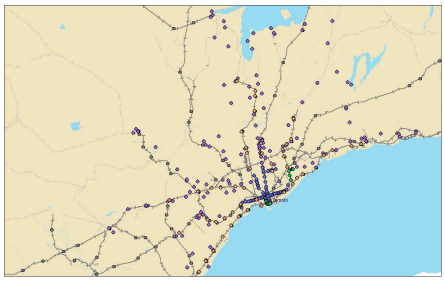
Layer Structure

Field Name	Type	Size	Description
NAME	Character	150	Toll Booth name
LOCATION	Character	100	Toll Booth location
CITY	Character	68	City (or closest Municipality)
PROV	Character	2	Province (Abbreviation)
DIRECTION	Character	2	Direction of Highway at Car Pool Lot Location
PREC_CODE[22]	Character	2	Code indicating the positional accuracy or precision of the geocoded feature
ATTRIBCODE	Character	2	Code to indicate the accuracy of the attribute data
POI_ID	Character	15	Unique ID

[22] Refer to the Appendix E: Geographical Placement of Data for more information.

Data Dictionary *(cont'd)*

Transportation Stops (trs)



Layer Location

\POI*AREA***trs**

Layer Structure

Field Name	Type	Size	Description
NAME	Char	150	Transportation Stop name
CITY	Char	68	City or municipality
PROV	Char	2	Provincial/Territorial Abbreviation
TRS_TYPE	Char	25	Transportation Stop classification (if available)
OWNER	Char	68	Transportation Stop owner/operator
ROUTE	Char	100	Transportation Stop Route
TRS_NUM	Char	8	Transportation Stop number (if available)
CODE	Decimal	4,0	Classification Code
FEATURE	Char	76	Transportation Stop Feature Type
PREC_CODE	Char	2	Precision Code
ATTRIB_CODE	Char	2	Attribute Code
POI_ID	Char	15	Transit Stop unique identifier (Unique ID)

- Bus and Rail Transit stops have been merged with the Railway Stops to create a Transportation Stops layer. Some fields were added and others changed name or type to accommodate the transit data. See table above for descriptions of each field.

Layer Content

CODE	FEATURE
150	BUS STOP
151	BUILDING: RAPID TRANSIT STATION
152	BUILDING: LIGHT RAIL TRANSIT STATION
154	BUILDING: COMMUTER RAIL STATION
155	BUILDING: RAILWAY STATION

Data Dictionary *(cont'd)*

Vegetation (ve)

Layer Location

\Topo*AREA***ve***

Layer Structure

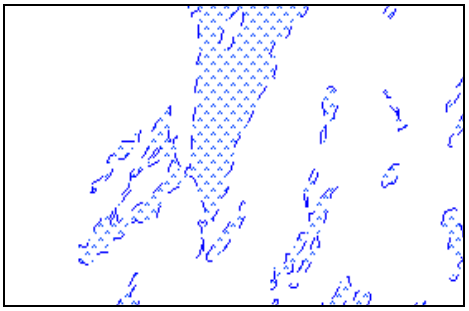
Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
834	PEAT CUTTING
834	PEAT CUTTING: GENERIC/UNKNOWN
1343	TREE NURSERY
1410	VEGETATION: ORCHARD
1411	VEGETATION: VINEYARD/HOPFIELD
1412	VEGETATION: WOODED AREA
1413	VEGETATION: TREE NURSERY

Data Dictionary *(cont'd)*

Wetlands (we)



Layer Location

\Topo*AREA***we***

Layer Structure

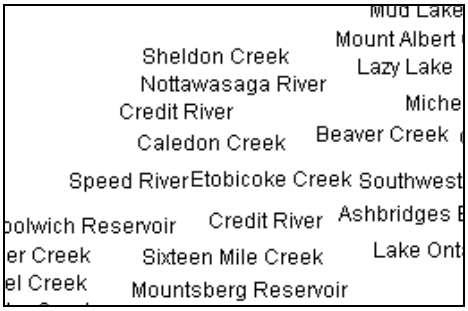
Field Name	Type	Size	Description
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
1253	STRING BOG
1253	STRING BOG: GENERIC/UNKNOWN
1492	WETLAND
1492	WETLAND: GENERIC/UNKNOWN

Data Dictionary *(cont'd)*

Water Feature Labels (wl)



Layer Location

\Topo*AREA***wl***

Layer Structure

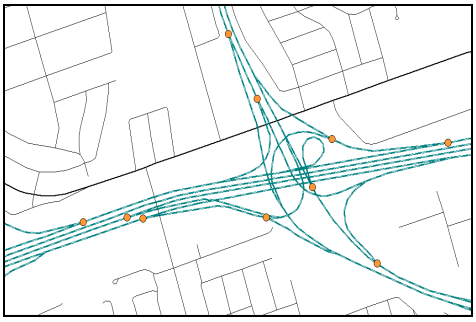
Field Name	Type	Size	Description
NAME	Character	100	Feature Name
CODE	Decimal	4,0	Feature Code
FEATURE	Character	76	Feature Type

Layer Content

Code	Feature
1852	TOPONYM: HYDROGRAPHY
1853	TOPONYM: SHORELINE

Data Dictionary *(cont'd)*

Highway Exits (xit)



Layer Location

\Streets*AREA***xit**

Layer Structure

Field Name	Type	Size	Description
EXIT_NUM	Character	30	Highway Exit Number
EXIT_DIR	Character	2	Direction of Exit ramp

Layer Content

The exit layer is composed of points containing exit number and direction attribution. Exit sourcing is only available for the provinces of British Columbia, New Brunswick, Nova Scotia, Ontario and Quebec.

- EXIT_NUM field contains comma-delimited records where multiple exit numbers exist. 356, 357 – denotes exit 356 and exit 357
- STREET field from rds table contains ampersand-delimited records where multiple exit numbers exist: "HIGHWAY 401 (EXIT 356 & 357)"
- EXIT_DIR field direction attribution is associated with the exit number only

Appendix A: ESRI® File Extensions

Refer to the following table for descriptions of ESRI file extensions. All file extensions are not available for all DMTI products.

File Extension	ArcView	ArcGIS	Both	File Description
*.shp			x	Part of standard ESRI Shapefile
*.shx			x	Part of standard ESRI Shapefile
*.dbf			x	Part of standard ESRI Shapefile
*.aih	x			Part of Attribute Index
*.ain	x			Part of Attribute Index
*.sbn			x	Part of Spatial Index
*.sbx			x	Part of Spatial Index
*.avl	x			Legend Properties
*.lyr		x		Layer Properties
*.prj		x		Datum and Projection Properties
*.apr	x			ArcView Project file
*.mxd		x		ArcGIS Project file

Appendix B: MapInfo® Professional File Extensions

Refer to the following table for descriptions of MapInfo file extensions.

File Extension	File Description
*.dat	Attribute Data
*.id	Graphic Index
*.ind	Attribute Index
*.map	Graphic Data
*.tab	Tab File
*.wor	Workspace

Appendix C: Street Types and Street Directions[23]

Street Types

Street Types used in the CanMap® suite of products correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street types in English (E) and street types in French (F).

Street Type	Abbreviation	Language
Abbey	ABBEY	E
Acres	ACRES	E
Allée	ALLÉE	F
Alley	ALLEY	E
Autoroute	AUT	F
Avenue	AV	F
Avenue	AVE	E
Bay	BAY	E
Beach	BEACH	E
Bend	BEND	E
Boulevard	BLVD	E
Boulevard	BOUL	F
By-Pass	BYPASS	E
Byway	BYWAY	E
Centre	C	F
Campus	CAMPUS	E
Cape	CAPE	E
Carr	CAR	F
Carrefour	CARREF	F
Cul-de-sac	CDS	E
Cercle	CERCLE	F
Chemin	CH	F
Chase	CHASE	E
Circle	CIR	E
Circuit	CIRCT	E
Close	CLOSE	E
Common	COMMON	E
Concession	CONC	E
Côte	CÔTE	F
Cour	COUR	F
Cours	COURS	F
Cove	COVE	E

Street Type	Abbreviation	Language
Crescent	CRES	E
Corners	CRNRS	E
Croissant	CROIS	F
Crossing	CROSS	E
Court	CRT	E
Centre	CTR	E
Dale	DALE	E
Dell	DELL	E
Diversion	DIVERS	E
Downs	DOWNS	E
Drive	DR	E
Échangeur	ÉCH	F
End	END	E
Esplanade	ESPL	E
Estates	ESTATE	E
Expressway	EXPY	E
Extension	EXTEN	E
Farm	FARM	E
Field	FIELD	E
Forest	FOREST	E
Front	FRONT	E
Freeway	FWY	E
Gate	GATE	E
Gardens	GDNS	E
Glade	GLADE	E
Glen	GLEN	E
Green	GREEN	E
Grounds	GRNDS	E
Grove	GROVE	E
Harbour	HARBR	E
Heath	HEATH	E
Highlands	HGHLDS	E

[23] Source: Canada Post Corporation, The Canadian Addressing Guide, October 2002

Appendix C: Street Types and Street Directions *(cont'd)*

Street Type	Abbreviation	Language
Hill	HILL	E
Hollow	HOLLOW	E
Heights	HTS	E
Highway	HWY	E
Île	ÎLE	F
Impasse	IMP	E
Inlet	INLET	E
Island	ISLAND	E
Key	KEY	E
Knoll	KNOLL	E
Landing	LANDNG	E
Lane	LANE	E
Line	LINE	E
Link	LINK	E
Lookout	LKOUT	E
Limits	LMTS	E
Loop	LOOP	E
Mall	MALL	E
Manor	MANOR	E
Maze	MAZE	E
Meadow	MEADOW	E
Mews	MEWS	E
Montée	MONTÉE	F
Moor	MOOR	E
Mount	MOUNT	E
Mountain	MTN	E
Orchard	ORCH	E
Parade	PARADE	E
Parc	PARC	F
Passage	PASS	E
Path	PATH	E
Pines	PINES	E
Park	PK	E
Parkway	PKY	E
Pathway	PTWAY	E
Place	PL	E
Place	PLACE	F
Plateau	PLAT	E
Plaza	PLAZA	E
Port	PORT	E
Point	PT	E
Pointe	POINTE	F

Street Type	Abbreviation	Language
Private	PVT	E
Promenade	PROM	E
Quai	QUAI	F
Quay	QUAY	E
Ramp	RAMP	E
Rang	RANG	F
Road	RD	E
Rond-point	RDPT	F
Range	RG	E
Ridge	RIDGE	E
Rise	RISE	E
Ruelle	RLE	F
Row	ROW	E
Route	RTE	E
Rue	RUE	F
Run	RUN	E
Sentier	SENT	E
Square	SQ	E
Street	ST	E
Subdivision	SUBDIV	E
Terrace	TERR	E
Thicket	THICK	E
Townline	TLINE	E
Towers	TOWERS	E
Trail	TRAIL	E
Turnabout	TRNABT	E
Terrasse	TSSE	F
Vale	VALE	E
Via	VIA	E
View	VIEW	E
Villas	VILLAS	E
Village	VILLGE	E
Vista	VISTA	E
Voie	VOIE	F
Walk	WALK	E
Way	WAY	E
Wharf	WHARF	E
Wood	WOOD	E
Wynd	WYND	E

Appendix C: Street Types and Street Directions *(cont'd)*

Street Directions

Street Directions used in the CanMap® suite of products correspond to the standard abbreviations used by Canada Post. The Language column distinguishes between street types in English (E) and street types in French (F).

Street Direction	Abbreviation	Language
East	E	E
Est	E	F
Nord	N	F
NordEst	NE	F
NordOuest	NO	F
North	N	E
NorthEast	NE	E
NorthWest	NW	E
Ouest	O	F
South	S	E
SouthEast	SE	E
SouthWest	SW	E
Sud	S	F
SudEst	SE	F
SudOuest	SO	F
West	W	E

Appendix D: Cartographic Road and Rail Classifications

Carto #	Carto Name	Description
1	Expressway	Expressways and 400 series highways, e.g. Highway 401, Don Valley Parkway
2	Primary Highway	Primary Highway, e.g. Highway 7, Highway 11
3	Secondary Highway	Secondary Highways
4	Major Road	Major road or Arterial road, e.g. Bayview Ave
5	Local Road	Subdivision road in a city or gravel road in a rural area
6	Trail	Trails
10	Main	Main Railway and Transit Lines (includes segments of rail that are shared with transit)
11	Sidetrack	Sidetrack of Main Railway Route
12	Abandoned	Abandoned sections of Main Railway Route
13	Transit	Transit lines that are not shared with Railway lines
20	Ferry Route	Approximate travel route of Ferry
21	Ferry Ramp	Ferry Ramp
22	Ice Road	Approximate travel route of Ice Road
23	Ice Ramp	Ice Ramp
24	Ferry Route/Ice Road	Approximate travel route of Ferry/Ice Road
25	Ferry/Ice Ramp	Ferry/Ice Ramp

Appendix E: Geographical Placement of Data

Precision Codes

Code indicating the positional accuracy or precision of the positioned or geocoded feature.

Prec_Code	Description
1	Centroid of 1:50 000 NTDB feature or placed via Orthorectified photo
2	Block-face representative point from CanMap streets – High precision
3	Block-face representative point from CanMap streets – Lower precision
4	Postal Code - Block-face representative point
5	Postal Code - EA Centroid / FSA Centroid
6	Municipal Centroid
7	Canadian Geographical Names Database (CGNDB)[24]

[24] May have been enhanced by removing points from water bodies

Appendix F: Joining the rds Layer and rds_lut Table

To view the *AREA*rds data linked to the *AREA*rds_lut data the user must complete a manual join.

MapInfo

- Open both the *AREA*rds data file and the *AREA*rds_lut data file in MapInfo.
- Select 'Query'> 'SQL Select…'
- Complete the following query in the Query Menu *(See Figure 1)*
- Select * from *AREArds*, *AREArds*_lut where *AREArds*.UniqueId = *AREArds*_lut.Rds_Id
- 'Verify' the SQL query and if valid, press 'OK'.

Once the query result has been obtained you can then view the joined tables e.g. 'Joined_Results' via the Info Tool in the Map Window or through the 'Joined_Results' Table Browser.

To create a permanent join simply save the joined tables as a new MapInfo Table.

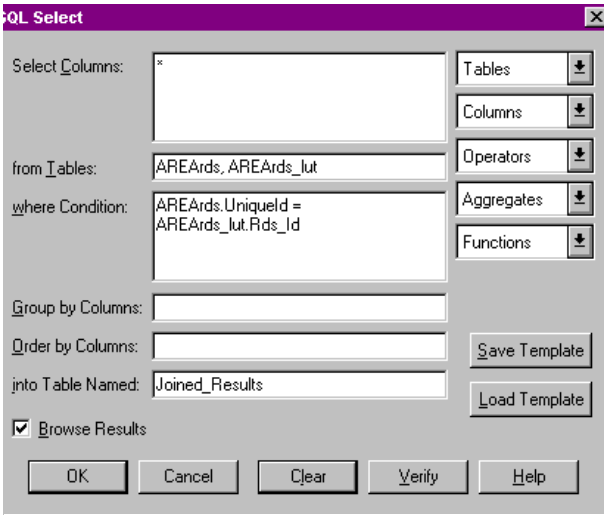


Figure 1: Joining MapInfo Tables

ArcView

- With the project file open, click on the Window menu and select the project (AREArds.apr) to display the project window.
- With the project window now displayed select the 'Tables' icon. Click on the 'Add' button, locate and open the AREArds_lut data table you wish to join.
- With the AREArds_lut table displayed click on the field (Rds_Id) that will be used to join the AREArds_lut table to the AREArds data table. Now return to the View with the AREArds file.
- Click on the AREArds theme in the legend to make it active.
- Click on the 'Open Theme Table' button to display the AREArds attribute table (or choose Theme from the Table menu).
- Click on the field that will be used to join the AREArds data table (UniqueId).
- Finally, click on the Join button (or choose Join from the Table menu)

When you scroll along the *AREArds* attribute table you will notice the *AREArds*_lut data has been joined. Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables click on the *AREArds* attribute table making it active and from the 'Table' menu select 'Remove All Joins'.

Appendix F: Joining the rds Layer and rds_lut Table *(cont'd)*

ArcGIS

- Open the appropriate project file (AREArds.mxd).
- Select the 'Add Data' button to open the corresponding attribute data file (AREArds_lut.dbf) you wish to join.
- Select the AREArds theme, right click and select 'Joins and Relates' selecting 'Join…' from the sub-menu of choices.
- Complete the 'Join Data' GUI as shown below using the UniqueId and Rds_Id fields as the common field between the tables. Once complete hit 'OK'.
- Once the join is complete select the AREArds theme, right click and select 'Open Attribute Table'. Once open, you can now scroll through the results of the join.
- Additional data tables can be joined, so that many table attributes can be shown at one time. To undo the joins between the data tables select the AREArds attribute table, right click and select 'Joins and Relates' selecting 'Remove Join(s)' from the sub-menu of choices. Select the table you wish to remove the join from the list provided (i.e. AREArds_lut.dbf).

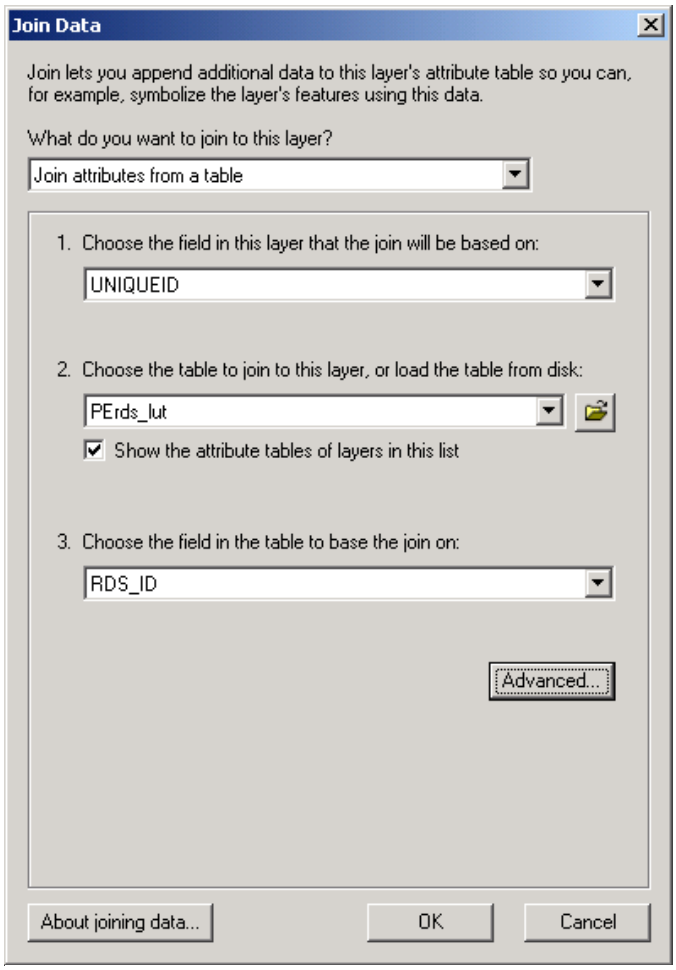


Figure 2: Joining Layers in ArcGIS.

Appendix G: ISO 19115:2003 Compliant Metadata

Metadata Notification

As of May 15th 2005, DMTI Spatial data products have metadata that are IS0 19115:2003 compliant.

This product now includes structured metadata files as provided in XML and/or HTM format. These metadata files reside with the graphic or database files to which they are associated. It is recommended that users review and customize the metadata as per their specific needs.

This latest addition to the CanMap® line of products is another enhancement that will benefit our users and increase overall product satisfaction.

Appendix H: SDC Format

The SDC v2.0 format files are available in the following packaged areas: Canada, Ontario, Quebec, British Columbia, Atlantic Region (PEI, NB, NS, NFL/Lab), Prairies/Central (AB, SK, MB, YK, NWT, NU), and GTA.

Software Requirements

CanMap is packaged using SDC version 2.0 standards. As such, these files can only be used with versions of ESRI ArcGIS 9.x and above, including ArcIMS 9.x.

Because CanMap SDC files are standardized to comply with ESRI software standards**, it is necessary to install ESRI Street Map Rules (SMrules.exe)** in order ensure geocoding functionality.

File

\CanMap\SMrules.exe

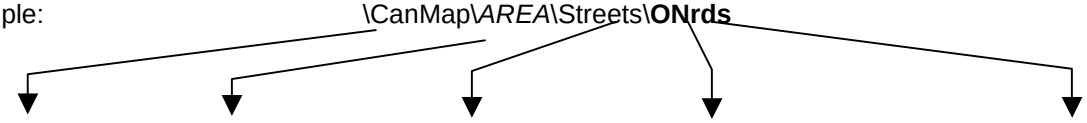
For more information on geocoding rules please refer to the following link:

http://support.esri.com/index.cfm?fa=knowledgebase.gisDictionary.search&searchTerm=geocoding%20rule%20base

SDC Naming Conventions

CanMap SDC files are organized into the following directory structure and use the following directory and file naming conventions:

Example: \CanMap*AREA*\Streets**ONrds**



Product Directory	Geographic Area Directory	General Content Directory	Geographic Area Abbreviation	File Content Abbreviation
CanMap	ON	Streets	ON	rds

The geographic area directory area indicates the packaged areas, for example
ATLTC= Atlantic Region
PRCTL= Prairies/Central

For the layers' attributes, please refer to the *Data Dictionary* of the CanMap User Manual.

Geocoding Index

The geocoding index enables geocoding in ArcIMS RouteServer and ArcGIS. ESRI calls upon the geocoding index via address locators, files with the *.loc extension. CanMap provides four address locators:

File Location

\CanMap*AREA*\Streets*rs_AREArds_gc_street_address.can.loc*
\CanMap*AREA*\Streets*rs_AREArds_gc_street_reverse.can.loc*

\CanMap*AREA*\Streets\sm_AREArds_gc_street_address.can.loc
\CanMap*AREA*\Streets*sm_AREArds_gc_street_address_altname.can.loc*

The geocoding index itself is a series of files that point towards specific fields in the SDC files.

File Location

\CanMap*AREA*\Streets*AREA*rds_GC.idx

For more information on geocoding please refer to the following link:

http://support.esri.com/index.cfm?fa=knowledgebase.gisDictionary.search&searchTerm=geocoding%20index

Geocoding Layer Structure (AREArds_GC)

Field Name	Type	Size	Description
ADDR_PD	Character	2	Prefix Direction component of the Primary Street Title (e.g. **W** 5 St)
ADDR_PT	Character	20	Prefix Street Type component of the Primary Street Title (e.g. **Rue** Jean)
ADDR_SN	Character	40	Street Name component of the Primary Street Title (e.g. **John** St E)
ADDR_ST	Character	20	Suffix Street Type component of the Primary Street Title (e.g. John **St** E)
ADDR_SD	Character	2	Suffix Direction component of the Primary Street Title (e.g. John St **E**)
ADDR1_PD	Character	2	Prefix Direction component of Alias Street Name
ADDR1_PT	Character	20	Prefix Street Type component of Alias Street Name
ADDR1_SN	Character	40	Street Name component of Alias Street Name
ADDR1_ST	Character	20	Suffix Street Type component of Alias Street Name
ADDR1_SD	Character	2	Suffix Direction component of Alias Street Name
ADDR2_PD	Character	2	Prefix Direction component of Former Provincial Hwy Name
ADDR2_PT	Character	20	Prefix Street Type component of Former Provincial Hwy Name
ADDR2_SN	Character	40	Street Name component of Former Provincial Hwy Name
ADDR2_ST	Character	20	Suffix Street Type component of Former Provincial Hwy Name
ADDR2_SD	Character	2	Suffix Direction component of Former Provincial Hwy Name
ADDR3_PD	Character	2	Prefix Direction component of Highway Numeric Name
ADDR3_PT	Character	20	Prefix Street Type component of Highway Numeric Name
ADDR3_SN	Character	40	Street Name component of Highway Numeric Name
ADDR3_ST	Character	20	Suffix Street Type component of Highway Numeric Name
ADDR3_SD	Character	2	Suffix Direction component of Highway Numeric Name
FROMLEFT	Decimal	6,0	Address on the Left side at the From end of the street segment
TOLEFT	Decimal	6,0	Address on the Left side at the To end of the street segment
FROMRIGHT	Decimal	6,0	Address on the Right side at the From end of the street segment
TORIGHT	Decimal	6,0	Address on the Right side at the To end of the street segment
PREDIR	Character	2	Prefix Direction component of the Street Title (e.g. **W** 5 St)
PRETYPE	Character	10	Prefix StreetType component of the Street Title (e.g. **Rue** Jean)
SUFTYPE	Character	10	Suffix StreetType component of the Street Title (e.g. John **St** E)
SUFDIR	Character	2	Suffix Direction component of the Street Title (e.g. John St **E**)
CARTO[25]	Decimal	3,0	Cartographic Road Classification
LEFT_MUN[26]	Character	70	Municipality

[25] For more information refer to Appendix D: Cartographic Road Classifications
[26] Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

LEFT_FSA	Character	3	Forward Sortation Area
LEFT_PRV	Character	2	Province Abbreviation
UNIQUEID	Decimal	9,0	Unique Identifier of Street segment

AXL files

Customizable *.axl files are available for use with ESRI's ArcIMS software. These files attempt to mimic the CanMap symbology and contain all CanMap layers.

File Location

\CanMap*AREA*\AREAtop.axl

In order for the *.axl files to work 'out of the box' the SDC files must be put into the following directory structure:

C:\SDC\CanMap*AREA*