



User Manual

1996 Census Boundaries - Census Subdivisions

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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. Strategic business partner of Tele Atlas North America, 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.



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
- CanMap® Water

MultiNet™ - *Digital Map Data for USA*

- Tele Atlas MultiNet™

Municipal Amalgamations

- 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
- Enhanced Postal Code File
- Forward Sortation Area (FSA) Boundary File

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

- Address Management Solution (AMS)
- 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/error_reporting.html or send an e-mail to: fixme@dmtdispatial.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/product_wish_list.html or send an e-mail to: wishlist@dmtdispatial.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.

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1996 Census Boundaries Census Subdivision

Census Subdivision is the general term applied to municipalities (as determined by provincial legislation) or their equivalent (for example, Indian reserves, Indian settlements and unorganized territories).

Files Provided

File Name	Description
<i>AreaCSD</i>	Census Subdivision Boundary file
<i>AreaWAT</i>	Water file (This file is intended to be layered above the Census Metropolitan Areas boundary file when viewed in a GIS software package)

File Structure

Field Name	Description	Type	Size
PRDCSD	Census Subdivision Code	Char	8
PROV	2 letter alpha abbreviation (Canada Post) according to the first letter of the postal code (ie. L1R2H2 = ON)	Char	2
PROV_CODE	2 number numeric abbreviation (Statistics Canada) according to the geographic location of the postal code (ie. L1R2H2 = 35)	Char	2
PRCD	Census Division Code	Char	4
NAME	Census Subdivision Name	Char	68
TYPE	Census Subdivision Type	Char	3
PRCMA	Census Metropolitan Area \Census Agglomeration Code (with Provincial Code)	Char	3
CMA_CA	Census Metropolitan Area \Census Agglomeration Code	Char	5
PRPCMA	Primary Census Metropolitan Area \ Primary Census Agglomeration Code (with Provincial Code)	Char	5
PCMA_PCA	Primary Census Metropolitan Area \ Primary Census Agglomeration Code	Char	3
PRCDCCS	Census Consolidated Subdivision	Char	8
PRER	Economic Region	Char	4
POP96	1996 Population	Decimal	11,0
Pop_SqKm ¹	Population Density (per square kilometer)	Decimal	11,1
DWELL96	1996 Dwelling Counts	Decimal	11,0
UAPART	Urban\Rural Status of CSDs. This code indicates if the CSD is located within or outside of a CMA or CA	Decimal	11,0
IRFLAG96	Indian reserve refusal flag 1996 (1 - yes, 0 - no) On some Indian Reserves and Indian Settlements enumeration was not permitted or was not fully completed. These areas are called 'incompletely enumerated' and are identified at the EA level by the 'Indian Reserve Refusal Flag'. This flag is applied to higher level geographic areas if they contain one or more of these incompletely enumerated Eas ² .	Char	1
POP91ua	1991 Population Unadjusted	Decimal	11,0
POP91a	1991 Population Adjusted to reflect current CSD boundaries	Decimal	11,0

¹ Based on the 1996 population and land area in square kilometers

² Statistics Canada. 1996 Census Dictionary. Ottawa: Industry Canada, 1997

² All Area fields were calculated within a Robinson projection

SHORE_AREA	Actual CSD land area in sq km (not including any part of the CSD covered by water) This field can be used during land area analysis. ²	Decimal	11,0
IRFLAG91	Indian reserve refusal flag 1991 (1 - yes, 0 - no)	Char	1
ADJUSTED	Identifies if the current CSD boundary has changed from the 1991 census (1 - yes, 0 - no)	Char	1

CSD Types

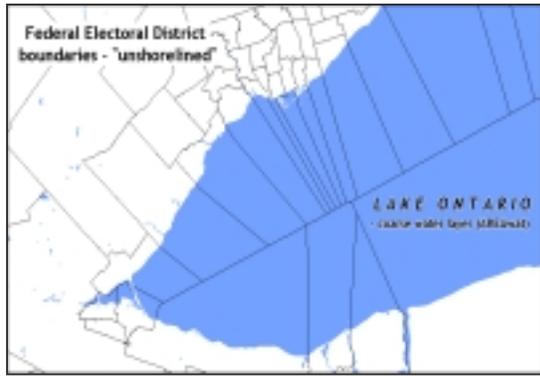
Type	Description	Type	Description
BOR	Borough	RGM	Regional Municipality
C	City	RM	Rural Municipality
CC	Chartered Community	RV	Resort Village
CM	County (Municipality)	S-E	Indian Settlement - Établissement indien
COM	Community	SA	Special Area
CT	Canton (Municipalité de)	SCM	Subdivision of county Municipality
CU	Cantons unis (Municipalité de)	SET	Settlement
DM	District Municipality	SM	Specialized Municipality
HAM	Hamlet	SRD	District
ID	Improvement District	SUN	Subdivision of Unorganized
IGD	Indian Government District	SV	Summer Village
LGD	Local government District	T	Town
LOT	Township and Royalty	TI	Terre inuite
M	Municipalité	TP	Township
MD	Municipal District	TR	Terres réservées
NH	Northern Hamlet	UNO	Unorganized - Non organisé
NT	Northern Town	V	Ville
NV	Northern village	VC	Village cri
P	Paroisse (Municipalité de)	VK	Village naskapi
PAR	Parish	VL	Village
R	Indian Reserve - Réserve indienne	VN	Village nordique
RC	Rural Community		

Province Codes

Code	Province
10	Newfoundland
11	Prince Edward Island
12	Nova Scotia
13	New Brunswick
24	Quebec
35	Ontario
46	Manitoba
47	Saskatchewan
48	Alberta
59	British Columbia
60	Yukon
61	Northwest Territories
62	Nunavut

Appendix A: Shorelined vs Unshorelined Boundaries

DMTI Spatial’s standard boundaries are all referred to as “unshorelined”, meaning that the boundary will not be necessarily reflect the physical shoreline. Products packaged with boundary type files will be shipped with a nationwide coarse water file (CANwat) that is generalized to limit the file size. It is recommended that when viewing DMTI Spatial’s boundary files, you should place the coarse water file above the boundary file as seen in the following diagrams.



“Unshorelined” boundaries shown with coarse water layer beneath the boundary file - Not recommended



Unshorelined” boundaries shown with coarse water layer on top - Recommended

DMTI Spatial produces a higher resolution water file that is supplied with the purchase of CanMap® and CanMap® RouteLogistics. This detailed water file (*AREAh*) is available in topographic coverage areas only, and may also be viewed with DMTI Spatial’s boundary files using the same layering technique described above.

“Shorelined” boundaries are also available from DMTI Spatial. These boundaries are created using a subset of the coarse water file. Major water bodies are extracted, and then superimposed onto the boundaries, creating a “shorelined” effect.



Entire coarse water layer - CANwat



Major water body subset from CANwat used to shoreline boundaries

Note: To receive “shorelined” boundaries, please contact your DMTI Spatial Account Manager.

It is not recommended that you view the "shorelined" boundaries with the detailed water file (*AREAh*), as the two files will typically not align with each other.



Detailed water layer (*AREAh*) shown with "shorelined" census boundaries



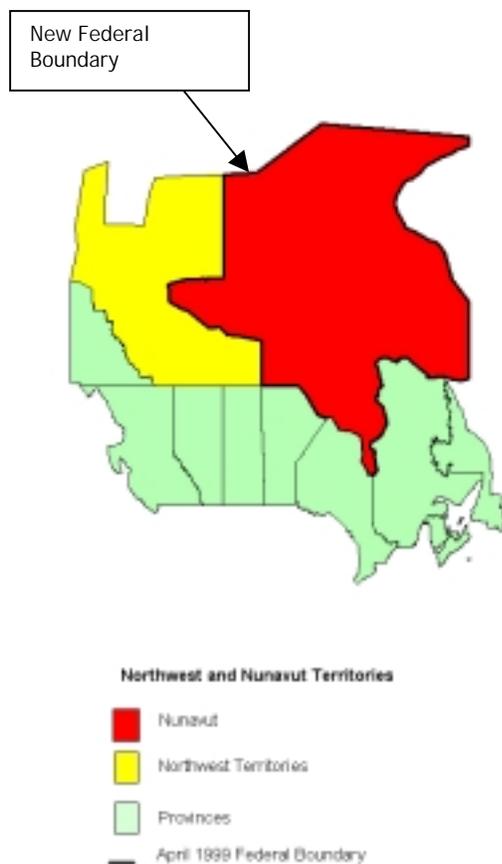
Coarse water layer (*AREAwat*) shown with the same "shorelined" census boundaries

Appendix B: Nunavut

Federal Boundary

On April 1, 1999 the Northwest Territories was split into two Territories to create Nunavut Territory. The province/territory code for Nunavut is 62 and the territory symbol is NU as recognized by Canada Post Corporation. The code for the Northwest Territories remains 61. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

Diagram 1 - New Federal Boundary - April 1999



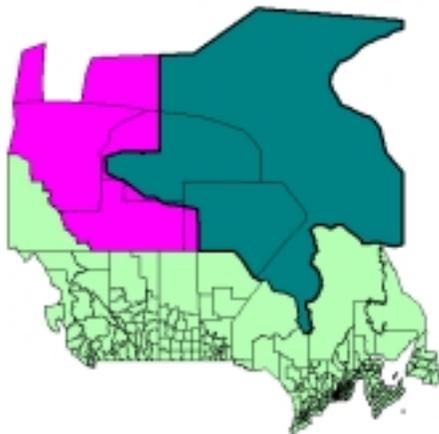
Census Divisions (CDs)

The five census divisions (CDs) that make up the Northwest Territories listed in the SGC are divided into Northwest Territories and Nunavut.

Baffin Region (04), Keewatin Region (05) and Kitikmeot Region (08) (displayed below in green) are part of Nunavut. Fort Smith Region (06) and Inuvik Region (07) (displayed below in magenta) remain within the Northwest Territories. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

The thick black line in *Diagram 2* shows the new Federal Boundary (April 1999). The thin black lines are the Census divisions referred to above. The two boundaries do not currently line up because the new Federal boundary came into effect in April 1999 and the new census boundaries will not be available until after the 2001 census is released. Once the new census data is available, the boundaries will be updated to line up with the Federal boundary.

Diagram 2 - Census Divisions



Census Boundary Legend

-  Census Divisions (CDs) 1996
-  Nunavut
-  Northwest Territories
-  Provinces
-  April 1999 Federal Boundary

Census Subdivisions (CSDs)

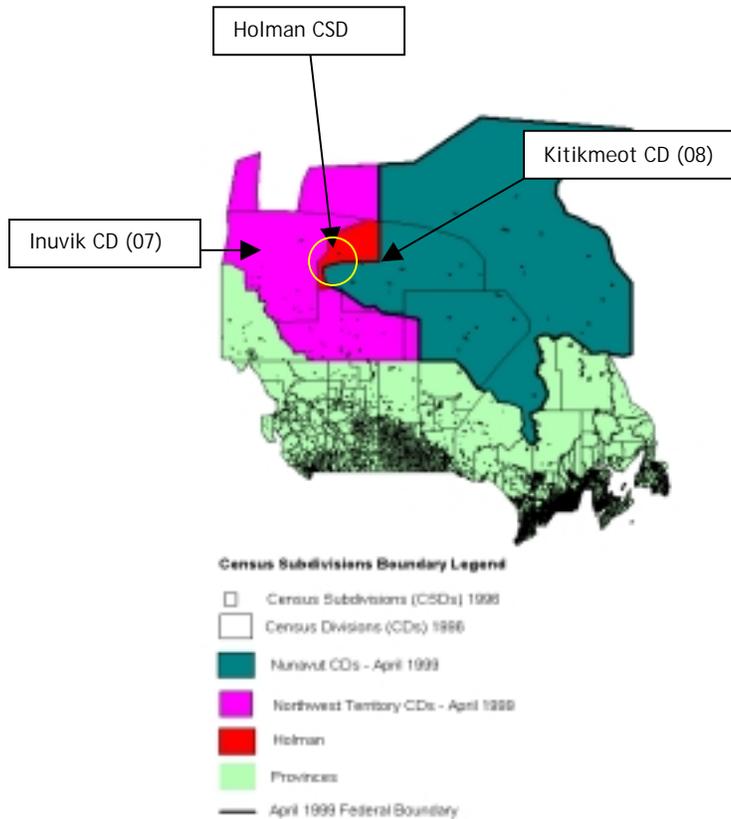
There are now 37 CSDs in the Northwest Territories and 31 CSDs in Nunavut.

For the geographic units of Nunavut, the first two digits of the SGC code have been changed from 61 to 62 and the rest of the digits have been retained as in the 1996 CD and CSD codes. For example, Resolute Bay CSD code formerly 6104022 becomes 6204022 and Baffin Region formerly 6104 becomes 6204.

The area outlined in red, in *Diagram 3* below, shows a part of Kitikmeot Region, including the CSD of Holman that has remained within the Northwest Territories. Both Holman and this part of the original Kitikmeot Region have become part of the Inuvik Region. Consequently, the CD code changed from 08 to 07.

These changes will be reflected in DMTI's new CDs and CSDs when the new census data is available and the boundaries realigned. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

Diagram 3 - Census Subdivisions (CSDs)



Finally, there are two CSD name changes since the release of the 1996 SGC manual:

6104010 Broughton Island, HAM becomes 6204010 Qikiqtarjuaq, HAM; and 6106052 Snare Lake, SET is now named 6106052 Wekweti, SET. [Source: addendum to the 1996 Standard Geographical Classification (SGC) Statistics Canada]

All of DMTI's CSD, CD and EA boundaries and data have been updated with the new attribute information outlined above. The boundaries will not line up with the current federal boundary until after the new census boundary and data information is released by Statistics Canada. For example, any EA boundaries and consequent data that fall within the new Federal boundary for Nunavut as shown in Diagram 1 above, will have PRFEDEA, PRCDCSD and PRCD codes beginning with the digits 62. Those boundaries and data that fall within the new Northwest Territories boundary will have codes beginning with the digits 61. Those boundaries and data that fall within the new Northwest Territories boundary will have codes beginning with the digits 61.