

Using Census data to Enrich Alberta Non-profits Geography & Confidentiality



Delivering insight through data for a better Canada



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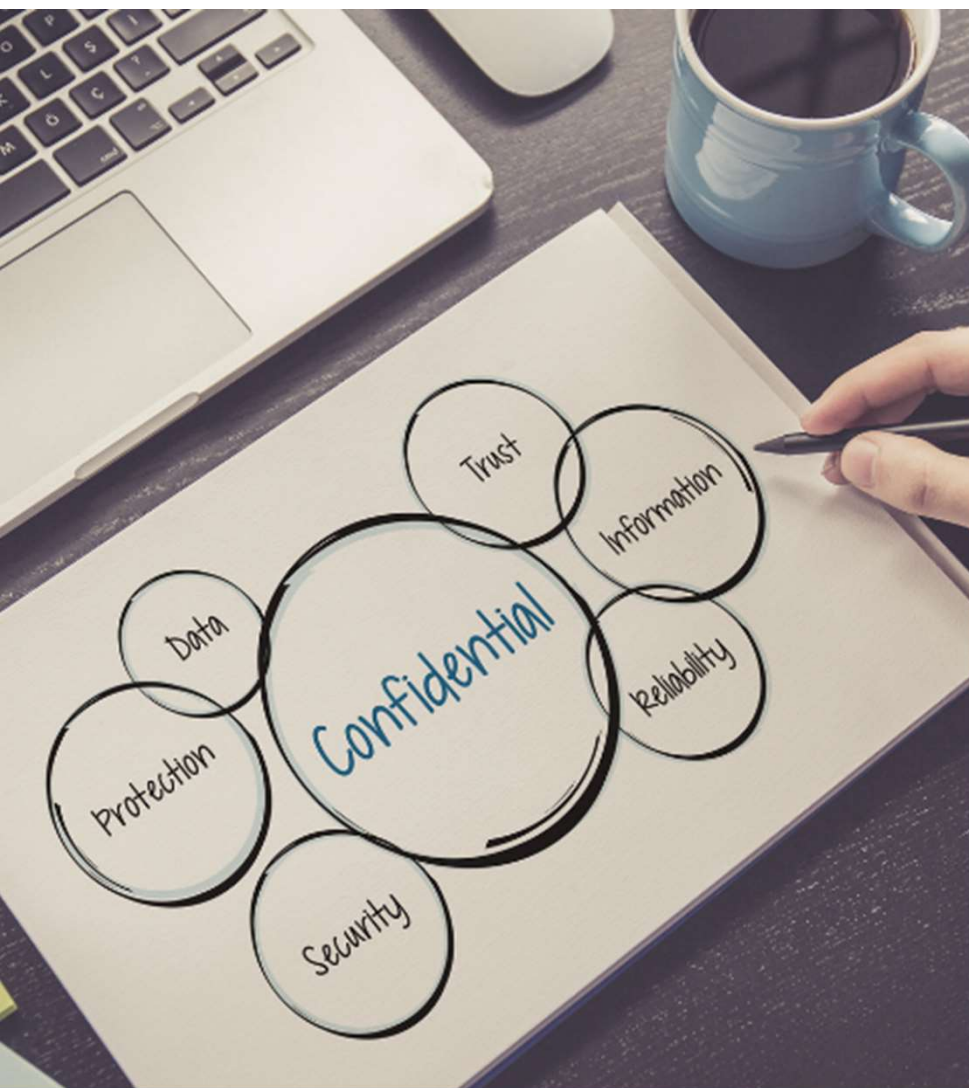
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Agenda



- Confidentiality standards and guidelines
- Highlights of standard Census Geography
- Website tour
 - Geography resources
 - Thematic maps
 - Focus on geography
- Exercise



Confidentiality Standards & Guidelines





Suppression

No census data are released for all standard or aggregations of standard areas below a population size of **40**. No census data are released for six-character (FSA-LDU) postal codes, geo-coded areas and aggregations of the block, block-face or LDU levels for populations below **100**

Income characteristic data are suppressed for areas where the population, for all standard, custom and geo-coded geographic areas, is less than **250**, or where the number of private households is less than **40** (except for Place of Work tabulations)

For census tabulations that include **Place of Work** data, the 40, 100 and 250 are applied to the **Employed Labour Force** counts for these areas, rather than the population of the areas

Suppression also occurs when certain questions are not asked of all respondents

x	x	x	0.9	1.0
0.2	x	x	2.4	2.7
1.0	0.6	0.6	13.0	14.3
x	x	x	0.9	0.9
..	x	x	0.8	0.7
x	x	x	1.6	1.7
x	x	..	0.7	0.7
0.5	x	x	9.0	10.3



Random Rounding

Short-Form Census (2A)

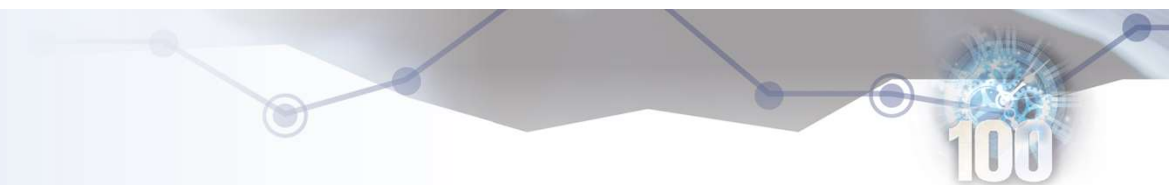
For short-form Census data, all counts are rounded to a base of 5

This means that all 2A counts will end in **either a 0 or 5**

Long-Form Census (2B)/NHS

For long-form Census and 2011 National Household Survey (NHS), all counts greater than 10 are rounded to base 5, but counts less than 10 are rounded to base 10

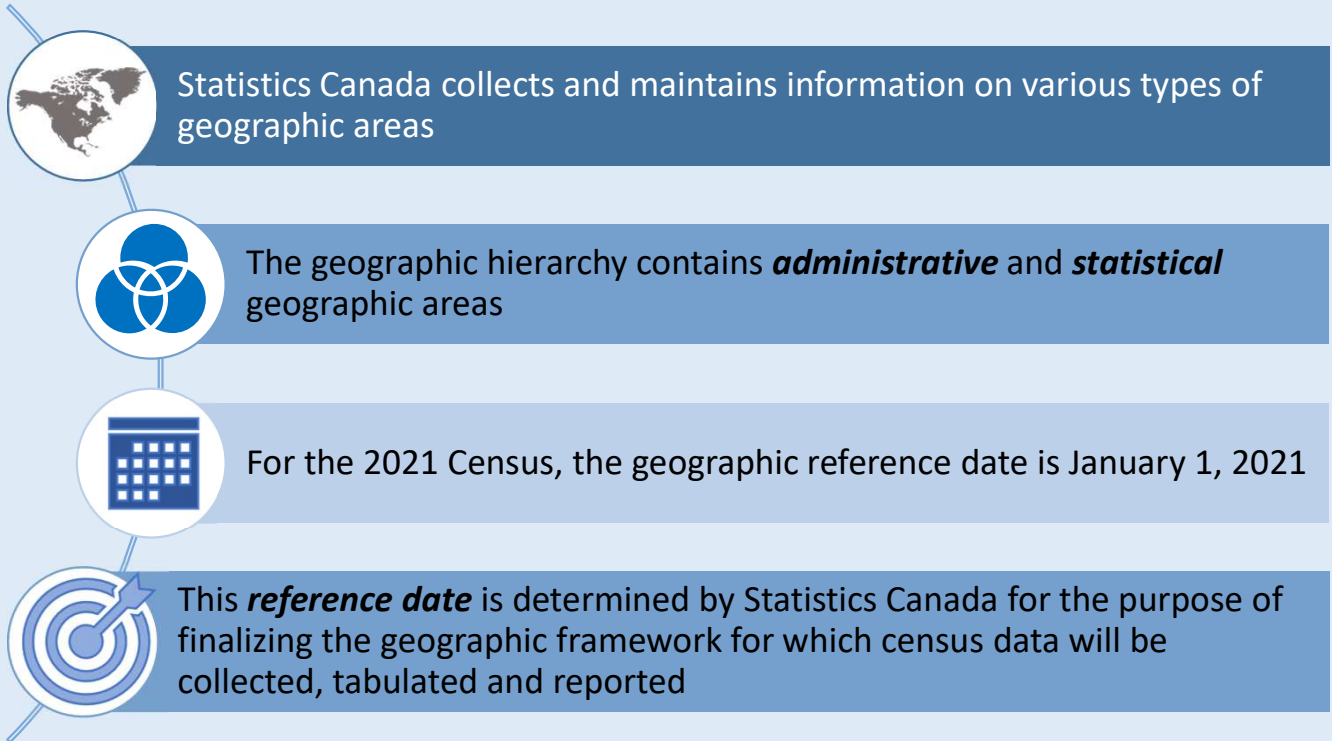
This means that any 2B Census or 2011 NHS counts less than 10 will always be changed to **0 or 10**



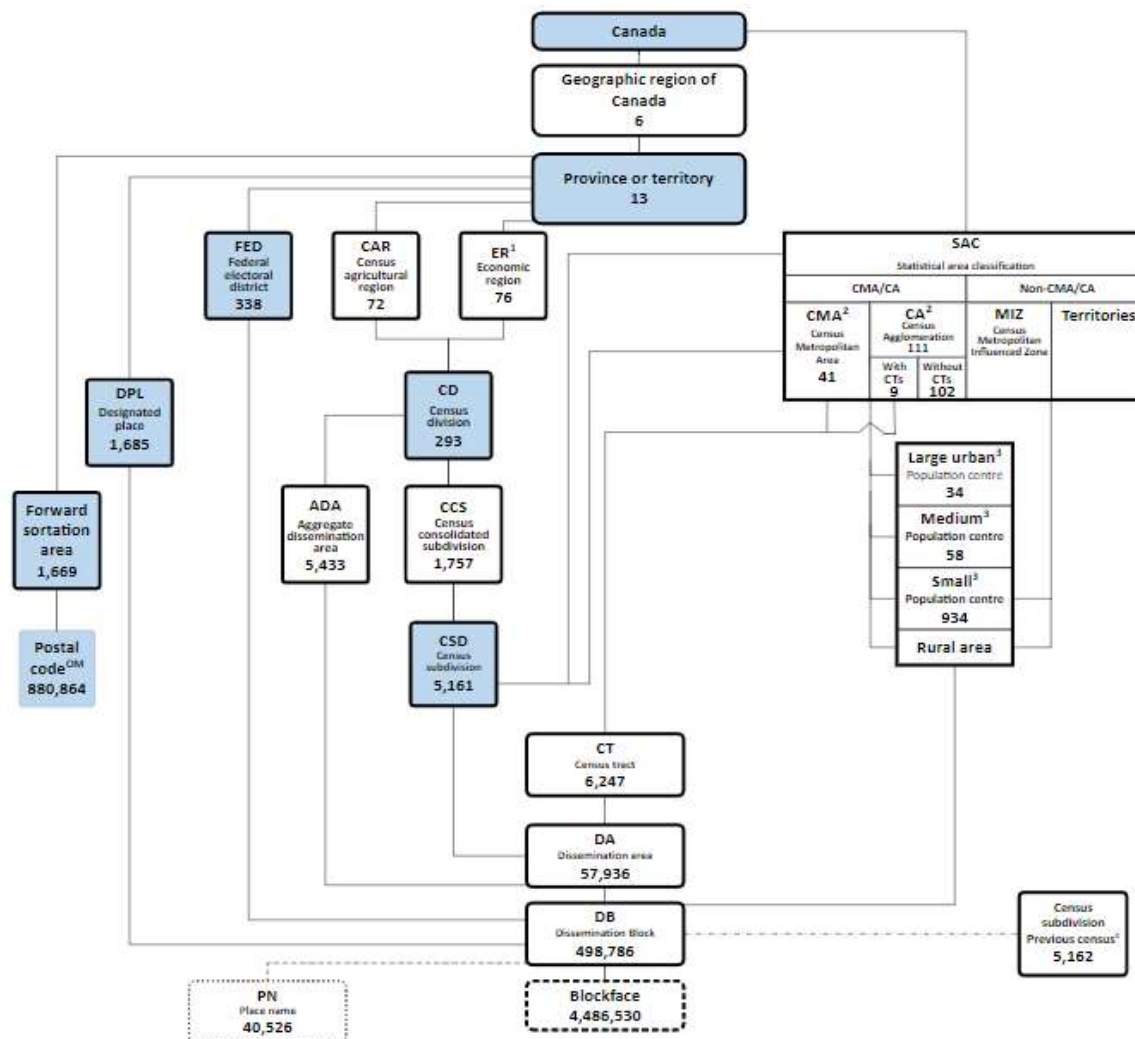
Census Geography



Geographic Hierarchy



Geographic Hierarchy





How can I find the geography that I need?

Most geographies are not tailored to or will 100% match the area the data user is interested in

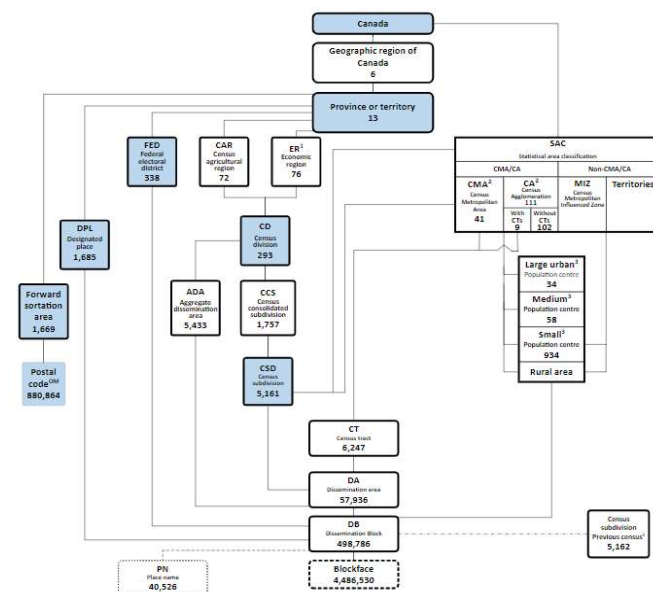
There are several options to find comparable geographies:

- Use the hierarchy chart
- Search using maps
- Search using place name, postal code^{OM}, or geographic code

How can I find the geography that I need?

Use the hierarchy chart

- When looking at large administrative areas
- To know what other levels are part of the area
- If the area of interest has a name





How can I find the geography that I need?



Search using maps

- Statistics Canada has a Standard Geographical Classification (SGC) that categorizes all of the geographic areas in Canada
- SGC reference maps are available on the StatCan website for users to review to identify the geography they are interested in:

<https://www12.statcan.gc.ca/census-recensement/2021/geo/maps-cartes/referencemaps-cartesdereference/sgc-cgt/index2021-eng.cfm?year=21>



How can I find the geography that I need?

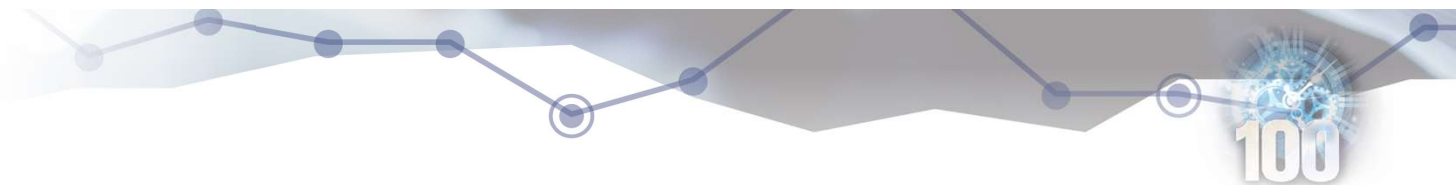
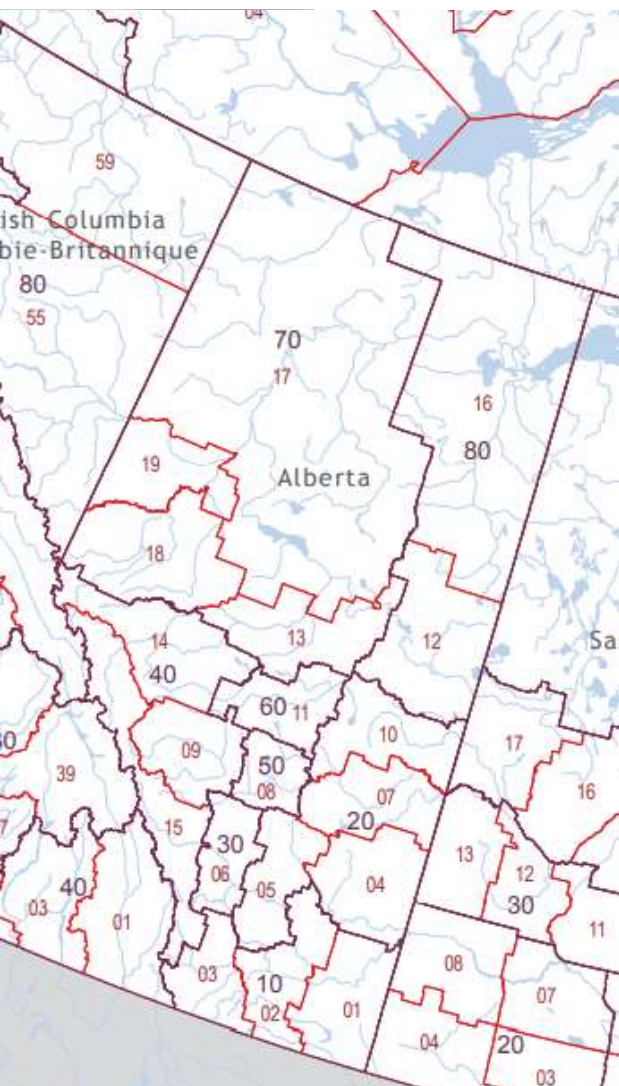


Search using geography name, postal code^{OM}, or geographic code

- Using the StatCan website, data users can search for different geographies by entering a:
 - Place Name
 - Postal Code^{OM}
 - Geographic Code

<https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/index.cfm?Lang=E>

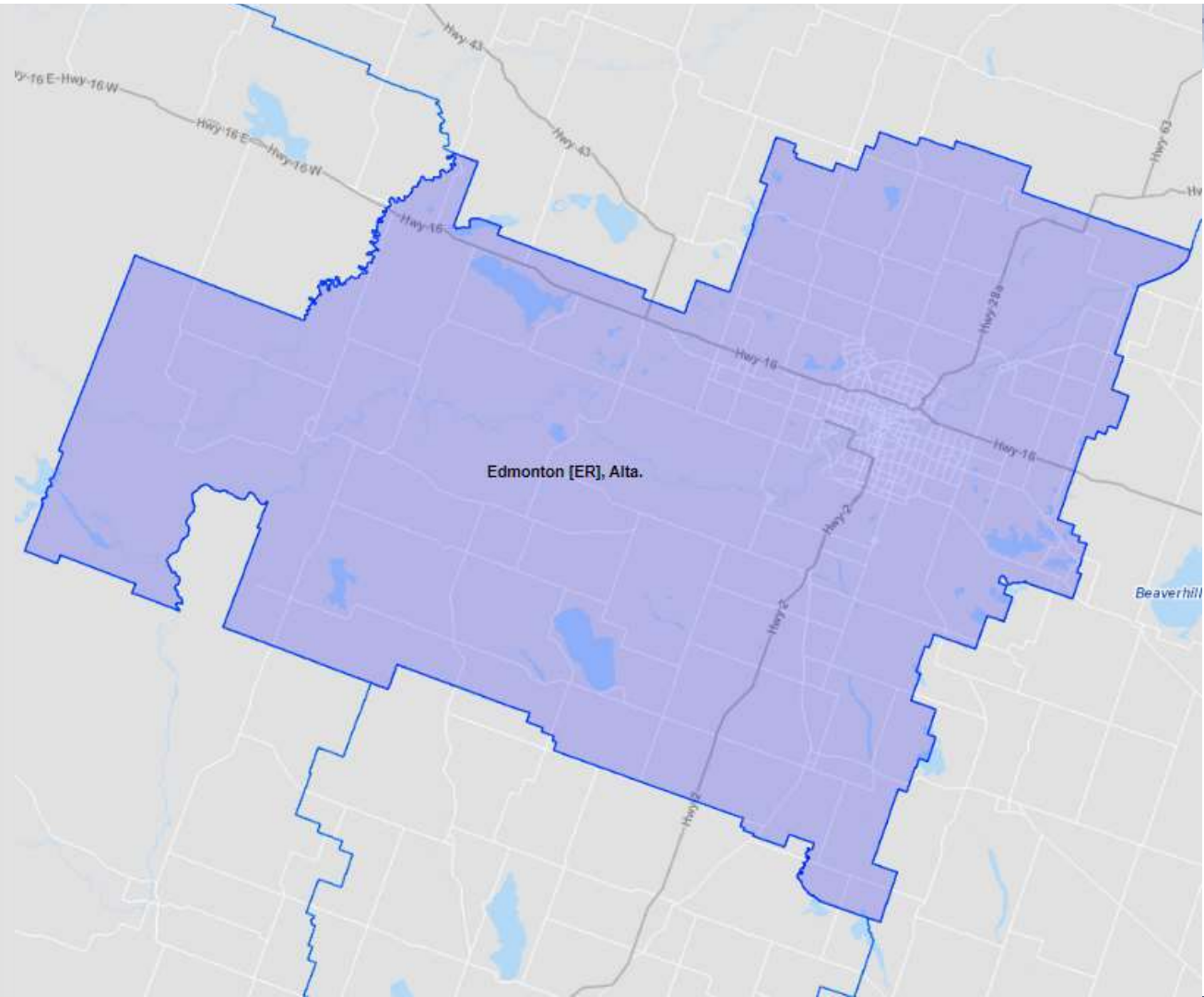
Or: <https://geosuite.statcan.gc.ca/geosuite/en/index>



Economic Region (ER)

An economic region (ER) is a **grouping of complete census divisions (CDs)**, with one exception in Ontario, created as a standard geographic unit for analysis of regional economic activity.

Edmonton Economic Region (ER) Boundary



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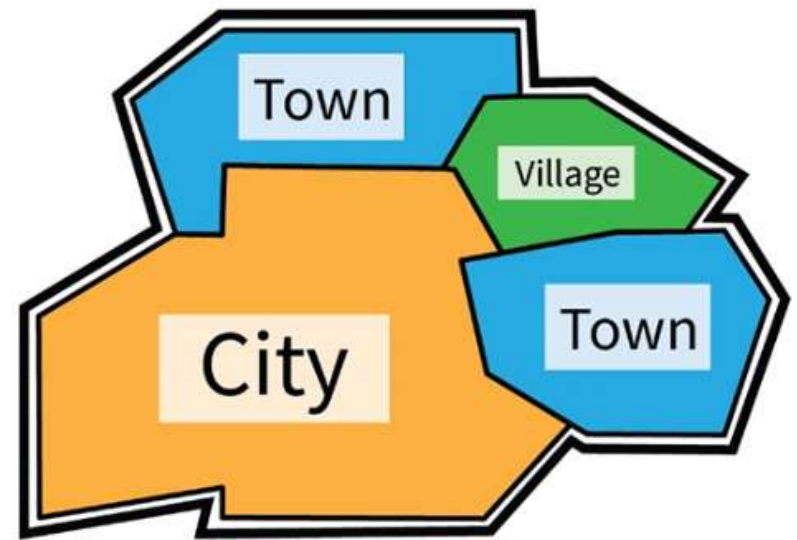
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Census Division (CD)

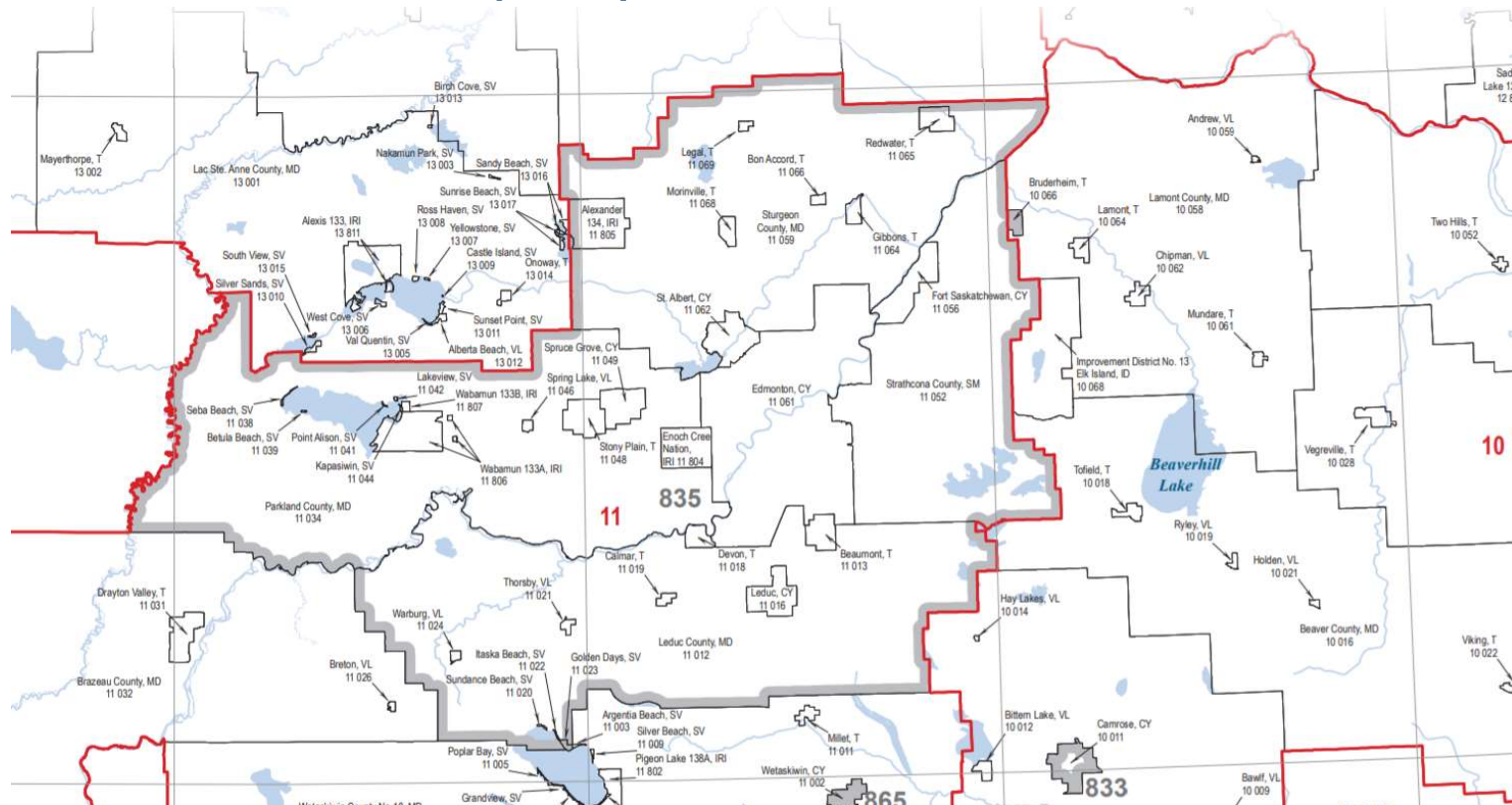
Group of **neighboring municipalities joined together** for the purposes of regional planning and managing common services (such as police or ambulance services).

These groupings are established under laws in effect in certain provinces of Canada.

Census division (CD) is the general term for provincially legislated areas (such as county, *municipalité régionale de comté* (MRC) and regional district) or their equivalents.



Census Division (CD) around Edmonton, Alberta



Census Metropolitan Area (CMA) & Census Agglomeration (CA)

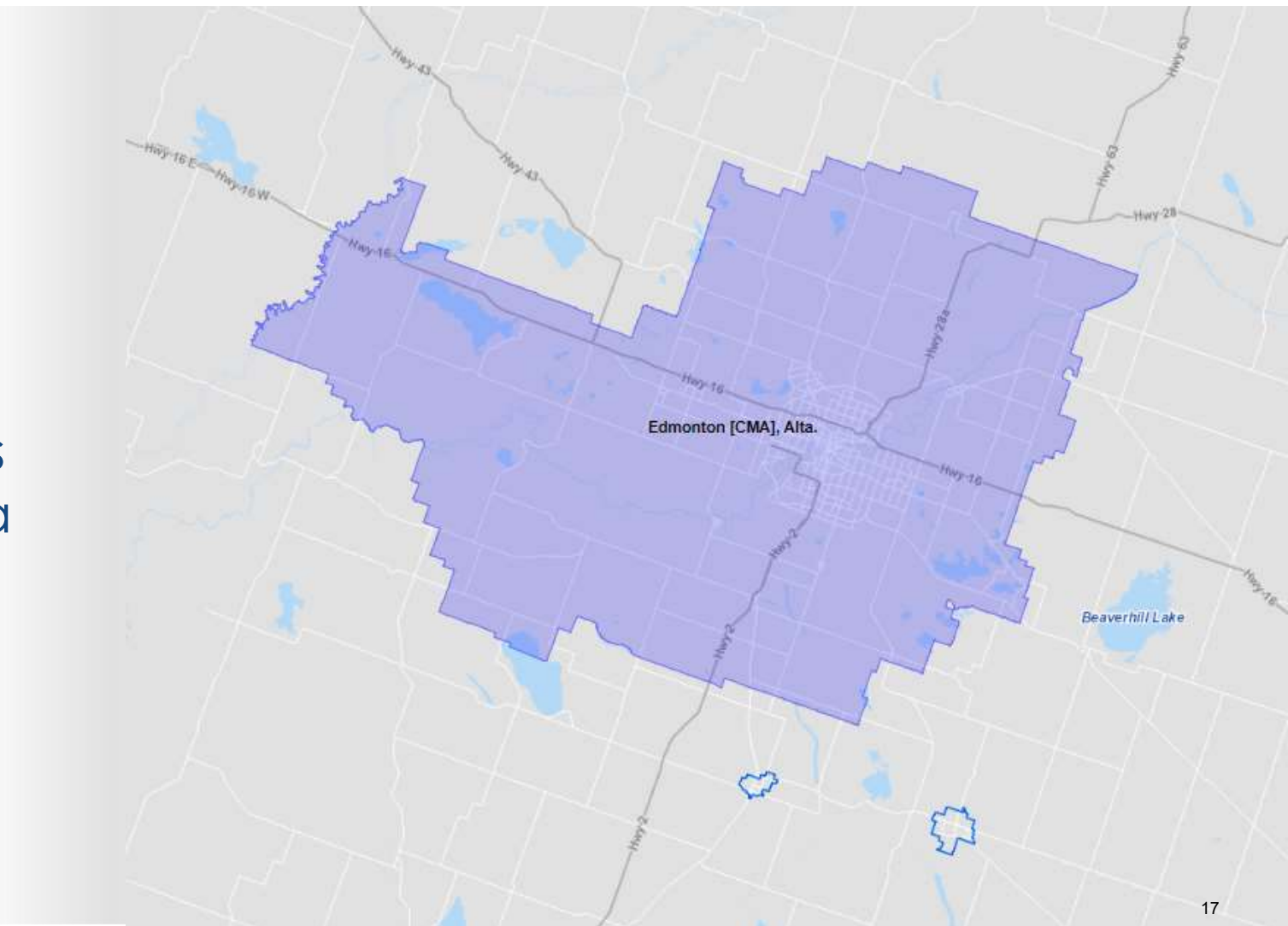
A census metropolitan area (CMA) or a census agglomeration (CA) is formed by **one or more adjacent municipalities centred on a population centre** (known as the core).

A CMA must have a total population of at least 100,000 based on data from the current Census of Population Program, of which 50,000 or more must live in the core based on adjusted data from the previous Census of Population Program.

A CA must have a core population of at least 10,000 also based on data from the previous Census of Population Program.



Edmonton Census Metropolitan Area (CMA) Boundary



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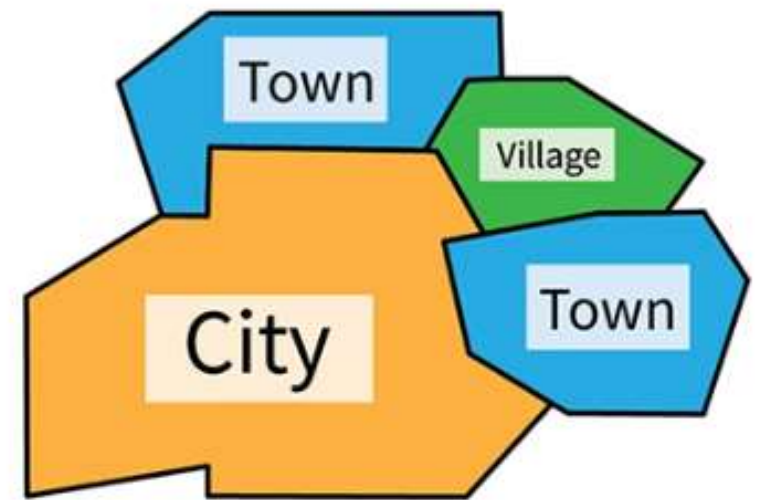
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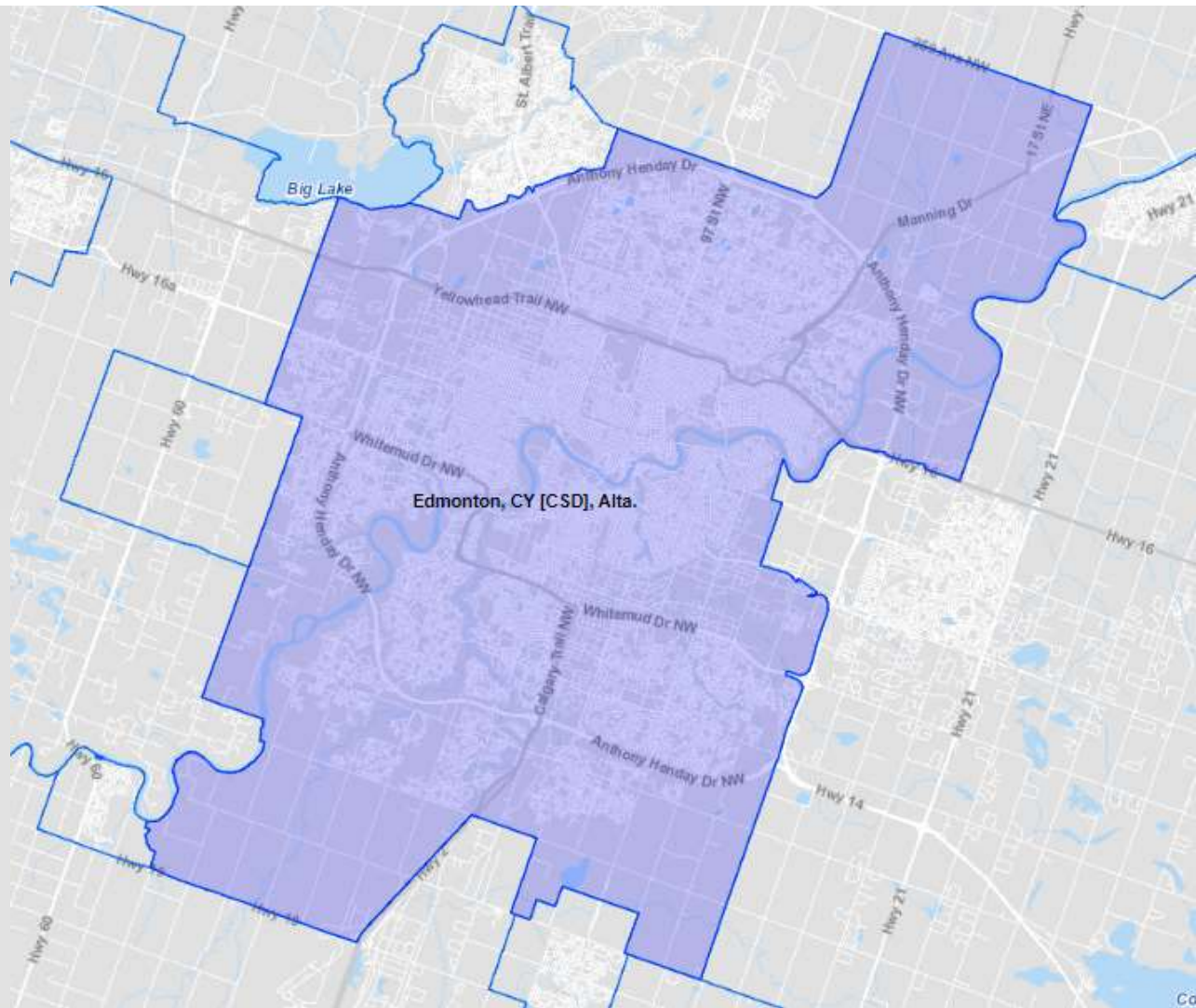
Census Subdivision (CSD)

Census subdivision (CSD) is the **general term for municipalities** (as determined by provincial/territorial legislation) **or areas treated as municipal equivalents** for statistical purposes (e.g., Indian reserves, Indian settlements and unorganized territories).

Municipal status is defined by laws in effect in each province and territory in Canada.



City of Edmonton Census Subdivision (CSD) Boundary



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Census Tract (CT)

Census tracts (CTs) are **small, relatively stable geographic areas that usually have a population of fewer than 7,500 persons**, based on data from the previous Census of Population Program

CTs are located in census metropolitan areas (CMAs) and in census agglomerations (CAs) that had a core population of 50,000 or more in the previous census.



Census Tracts (CT) in Edmonton CMA



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Dissemination Area (DA)

A dissemination area (DA) is a **small, relatively stable geographic unit composed of one or more adjacent dissemination blocks** with an average population of 400 to 700 persons based on data from the previous Census of Population Program.

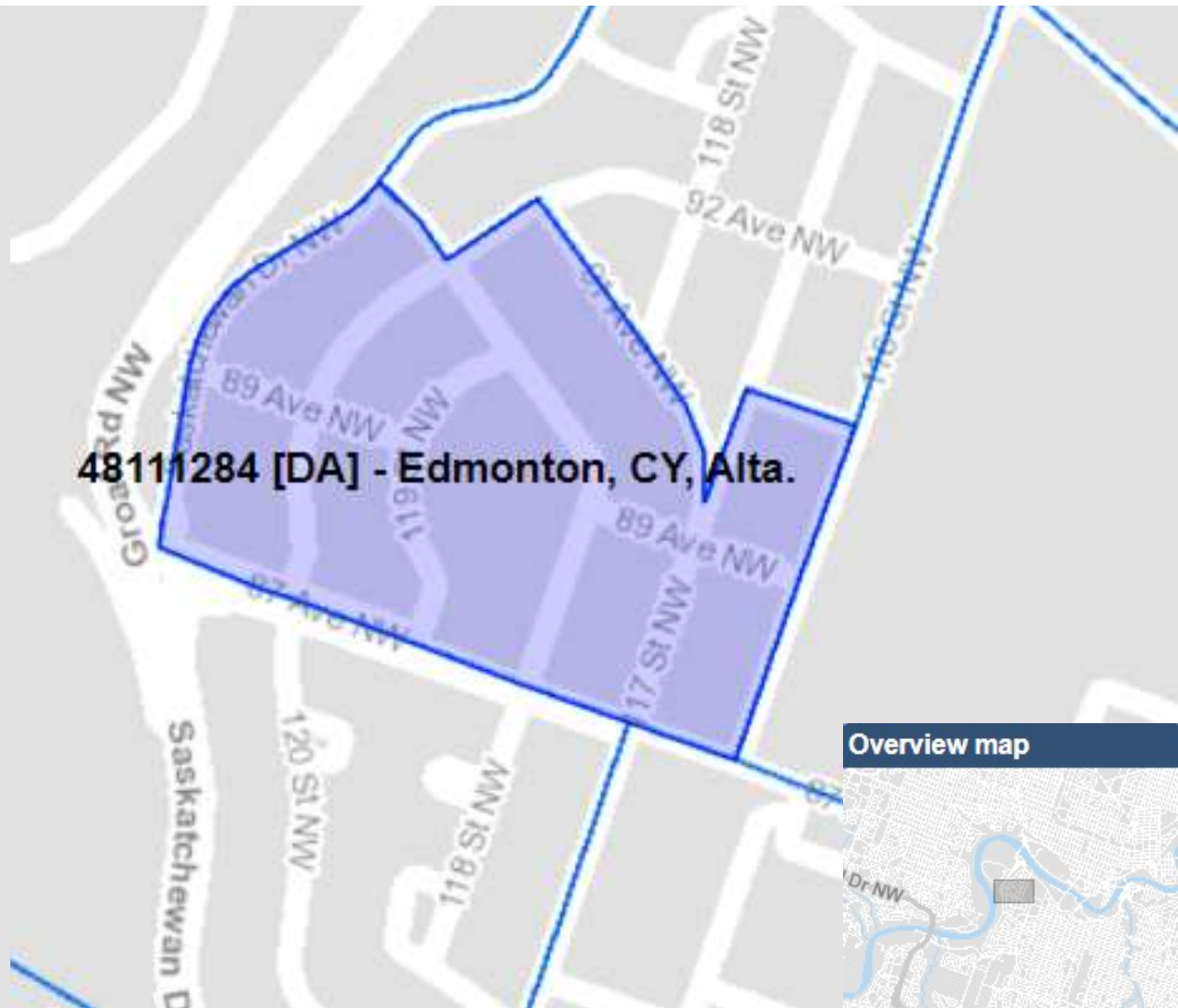
It is the smallest standard geographic area for which all census data are disseminated.

DAs cover all the territory of Canada.

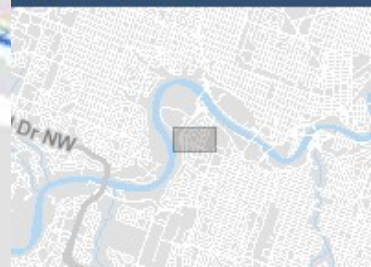


Dissemination Areas (DA) in Edmonton CMA

48111284 [DA] - Edmonton, CY, Alta.



Overview map



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Dissemination Block (DB)

A dissemination block (DB) is an **area bounded on all sides by roads and/or boundaries** of Statistics Canada's standard geographic areas for dissemination.

The dissemination block is the smallest geographic area for which population and dwelling counts are disseminated.

Dissemination blocks cover all the territory of Canada.



Dissemination Blocks (DB) in the Edmonton CMA





Census Concepts and Variables

We will explore the Census data concepts and variables

You will learn about the reference materials available and how to access highlight tables and data profiles.

Data products & Analyses

We will introduce the multi-variable cross tabulations available on the StatCan website

You will also learn how to use the Beyond 2020 data browser to view and manipulate data tables.



Topics selected by Participants

We will cover topics that you identify as relevant to your interests and data needs

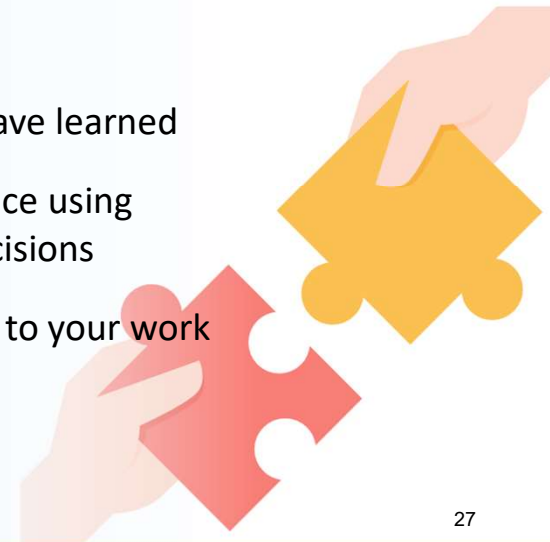
For example, we can help you with historical comparisons or how to create a Census profile

Summary & Exercises

In this final session, you will apply everything you have learned

You will collaborate with other participants to practice using Census data to make informed, evidence-based decisions

We will focus on topics that you identify as relevant to your work



Finding 2021 Census data on Statistics Canada Website



www.statcan.gc.ca

The screenshot shows the Statistics Canada website interface. At the top, there is a navigation bar with the Canadian flag, the text 'Statistics Canada / Statistique Canada', a search bar, and a menu with links: Subjects, Data, Analysis, Reference, Geography, Census, Surveys and statistical programs, About StatCan, and Canada.ca. Below the navigation bar is a 'Home' link. The main content area features a large banner for the 'Census Program' with the title 'Census of Population' and a description: 'A detailed statistical portrait of Canada and its people by their demographic, social and economic characteristics.' Below the banner is a row of links: Census data, Census analysis, Census reference, Census topics, Census geography, and Census of Agriculture. Underneath this is a 'Key indicators' section with a dropdown menu set to 'Canada'. It displays four indicators: English-French bilingualism rate (%) at 18.0, Population with more than one language spoken at home (%) at 18.7, Population with English as first official language spoken (%) at 75.5, and Population with French as first official language spoken (%) at 21.4. Below the key indicators is a 'Census news' section with a link to 'View all releases'. It lists two releases from August 17, 2022: 'Census Profile, 2021 Census of Population' and 'Data tables, 2021 Census of Population'. To the right of the news section is a box for the 'Next major 2021 Census release' on September 21, 2022, indicating '22 days' remaining for 'Indigenous peoples • Housing' and a link to 'View release plans'.

Statistics Canada / Statistique Canada

Search website

Subjects Data Analysis Reference Geography Census Surveys and statistical programs About StatCan Canada.ca

Home

Census Program
Census of Population
A detailed statistical portrait of Canada and its people by their demographic, social and economic characteristics.

Census data Census analysis Census reference Census topics Census geography Census of Agriculture

Key indicators | [View all key indicators](#)

Canada

Indicator	Value (%)
English-French bilingualism rate (%)	18.0
Population with more than one language spoken at home (%)	18.7
Population with English as first official language spoken (%)	75.5
Population with French as first official language spoken (%)	21.4

Census news | [View all releases](#)

17 AUG 2022 [Census Profile, 2021 Census of Population](#)

17 AUG 2022 [Data tables, 2021 Census of Population](#)

17 AUG 2022 [Data visualization: Mother tongue by geography](#)

17 AUG 2022 [Infographic: Increasing diversity of languages, other than English or French, spoken at home](#)

Next major 2021 Census release

September 21, 2022
22 days
Indigenous peoples • Housing
[View release plans](#)

2021 Census Profiles

Recall that you can compare up to four geographies, side by side. **Enter the postal code** for your own home, office, or other place of interest. Then, select the **Census Subdivision (CSD)** which contains this postal code.

From there, select the **Census Tract (CT)**. Add the **Dissemination Area (DA)**.

Check the maps using the **“i” option** beside the geography name/code that you select. Start selecting the appropriate ADA and keep adding geographies in your profile.



- Do any of these areas meet your criteria of the geography you are interested in?
- Will it be enough to aggregate more units (more DA's or more ADA's) to meet your needs?
- Can you get a better definition of your geography by using the Dissemination block from GeoSuite?
- Can you create your area of interest by aggregating several geographies?

Tell us your thoughts!

What process are you using to define your geography of interest using the SGD units that are available?

Now, **focus in one topic** of the data available (Household, religion, income, etc.) and **compare the different geographies**. Does the comparison produce enough information to satisfy your data needs? What else is missing?

CONTACT US

Toll-free: 1-800-263-1136
Email: infostats@statcan.gc.ca

Thank-you!

Questions?



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Helpful Links

[Release plans - 2021 Census dissemination planning \(statcan.gc.ca\)](https://statcan.gc.ca)

[2021 Census of Population – Data products \(statcan.gc.ca\)](https://statcan.gc.ca)

[Census Profile, 2021 Census of Population \(statcan.gc.ca\)](https://statcan.gc.ca)

[Select from a list of geographies - Alberta \(statcan.gc.ca\)](https://statcan.gc.ca)

[Focus on Geography Series \(statcan.gc.ca\)](https://statcan.gc.ca)

[GeoSearch \(statcan.gc.ca\)](https://statcan.gc.ca)

[Census Program Data Viewer \(statcan.gc.ca\)](https://statcan.gc.ca)

[Data tables, 2021 Census of Population \(statcan.gc.ca\)](https://statcan.gc.ca)

[2021 Census of Population - Analytical products \(statcan.gc.ca\)](https://statcan.gc.ca)

[Dictionary, Census of Population, 2021 \(statcan.gc.ca\)](https://statcan.gc.ca)

[Reference materials, 2021 Census \(statcan.gc.ca\)](https://statcan.gc.ca)