

# Using Census data to Enrich Alberta Non-profits Data products & Analyses



Delivering insight through data for a better Canada

# Agenda

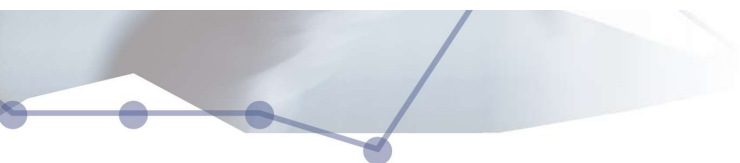


- Highlights of 2021 Census data products
  - Data visualizations
  - Census profile
  - Data tables
- Research considerations
- Beyond 2020 application
- Access to 2021 Census data products
- Activity



# Highlights of 2021 Census data products





## Increasing diversity of languages, other than English or French, spoken at home

### Language spoken predominantly at home<sup>1</sup>

While the number of Canadians who speak English or French predominantly at home has never been higher, their relative weight in the population has been declining since at least 2001 because of the more rapid increase of other languages.



## Data visualization



### 4.6 million Canadians (12.7%) speak a language other than English or French predominantly at home

- **Up** from 2001 (9.7%).
- **Strong growth** in the number of Canadians who spoke a language from **South Asia**, as well as **Mandarin**, **Arabic** and **Tagalog**, predominantly at home.

### Predominant language spoken at home among those whose mother tongue was neither English nor French

### Hello everyone!

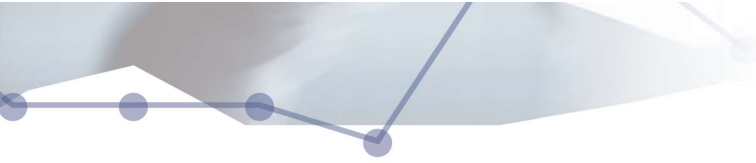
Ranking of languages spoken predominantly at home by the largest number of people<sup>2</sup>





**Predominant home language spoken by the largest number of people for some metropolitan areas<sup>2</sup>**





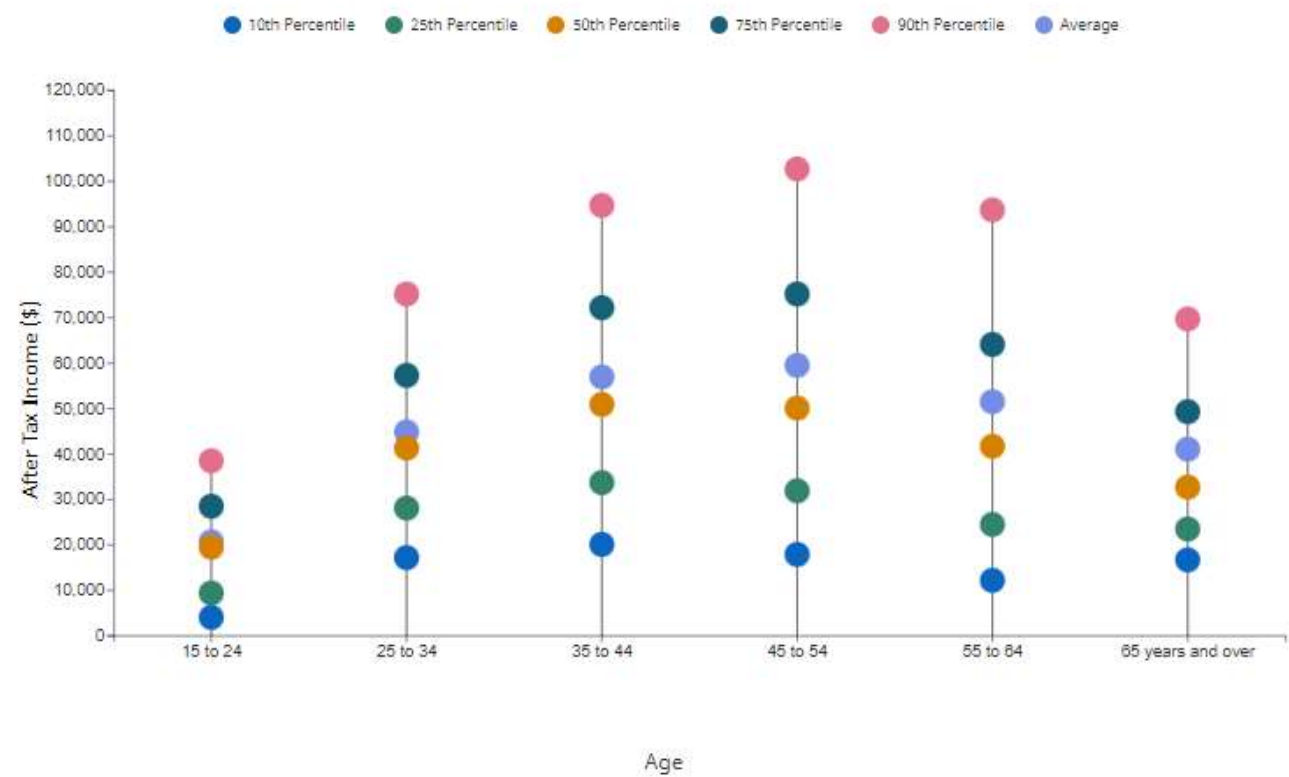
# Income Explorer

This interactive chart is comprised of two visualizations to show statistics of selected income sources by various characteristics and geographies ([link](#))

Category: Age  
Gender: Total - Gender  
Income Source: After-tax income  
Geography: Canada

Enter an income (numbers only):

Change visualization: **Characteristics** | 2019-2020 income





# 2021 Census profile

Presents information from the 2021 Census of Population for various levels of geography, including provinces and territories, census metropolitan areas, communities and census tracts

## Census Profile, 2021 Census of Population Profile table

[Feedback](#) | [Note: Gender](#) | [Download](#)

- ▶ Add a geography
- ▶ Add or remove data

Characteristic	Alberta ⓘ		
	[Province]		
	Counts		
	Total	Men +	Women +
<b>Population and dwellings</b>			
Population, 2021 <sup>1</sup>	4,262,635	...	...
Population, 2016 <sup>1</sup>	4,067,175	...	...
Population percentage change, 2016 to 2021	4.8	...	...
Total private dwellings <sup>2</sup>	1,772,670	...	...
Private dwellings occupied by usual residents <sup>3</sup>	1,633,220	...	...
Population density per square kilometre	6.7	...	...
Land area in square kilometres	634,658.27	...	...
<b>Age characteristics</b>			
			6



## Data tables

This series of cross-tabulations presents a portrait of Canada based on the various census topics. They range in complexity and are available for various levels of geography.

Topics will become available according to the [release schedule of topics](#). Data tables are also available and can be [browsed by variable](#) or browsed through a [map](#).

### Variables – Topics

- Population and dwellings counts
- Age, sex at birth and gender
- Families, households and marital status
- Canadian military experience
- Income
- Language
- Indigenous Peoples
- Type of dwelling
- Immigration, place of birth and citizenship
- Ethnocultural and religious diversity
- Mobility and migration
- Education
- Labour, commuting and language at work
- Instruction in the official minority language





## Example: Data table / Multi variables cross tabulation



### Marital status, age group and gender: Canada, provinces and territories, census divisions and census subdivisions

**Table:** 98-10-0128-01

**Geography:** Canada; Province or territory; Census division; Census subdivision

**Universe:** Population 15 years of age and older, 2021 and 2016 censuses — 100% data

**Variable list:** Marital status (13), Gender (3a), Census year (2), Age (16)

**Description:** Data on marital status, age group and gender for the population aged 15 and over, Canada, provinces and territories, census divisions and census subdivisions, 2021 and 2016 censuses.

#### Marital status (13)

Total - Marital status

Married or living common-law

Married

Living common-law

Living common law - Never married

Living common law – Separated

Living common law – Divorced

Living common law – Widowed

Not married and not living common-law

Not married and not living common law - Never married

Not married and not living common law – Separated

Not married and not living common law – Divorced

Not married and not living common law - Widowed

#### Gender (3)

Total – Gender

Men+

Women+

#### Age(16)

Total – Age

15 to 19 years

20 to 24 years

25 to 29 years

30 to 34 years

35 to 39 years

40 to 44 years

45 to 49 years

50 to 54 years

55 to 59 years

60 to 64 years

65 to 69 years

70 to 74 years

75 to 79 years

80 to 84 years

85 years and over



## Example: Data table / Multi variables cross tabulation

### Low-income status by age and gender: Canada, provinces and territories, census divisions and census subdivisions

Frequency: Occasional

Table: 98-10-0103-01

Release date: 2022-07-13

Geography: Canada, Province or territory, Census division, Census subdivision

#### Universe:

Persons in private households in occupied private dwellings, 2021 and 2016 censuses — 100% data

#### Variable List:

- Age (8)
- Gender (3a)
- Year (2)
- Individual low-income status (8)

Geography	Alberta						Edmonton					
	Total - Gender		Men+ <sup>6</sup>		Women+ <sup>7</sup>		Total - Gender		Men+ <sup>6</sup>		Women+ <sup>7</sup>	
Gender (3a) <sup>2, 3</sup>	2020		2015		2020		2015		2020		2015	
Year (2)	2020	2015	2020	2015	2020	2015	2020	2015	2020	2015	2020	2015
Individual low-income status (8) <sup>5</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>	Prevalence of low income (LIM-AT) (%) <sup>8</sup>
Age (8) <sup>4</sup>												
	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓
Total - Age	9.2	9.7	8.8	9.2	9.6	10.2	10.0	10.8	9.6	10.3	10.3	11.4
0 to 17 years	11.2	13.6	11.2	13.6	11.3	13.6	12.9	16.0	12.8	16.0	13.0	16.0
18 to 24 years	9.4	10.5	8.8	9.5	10.1	11.6	12.0	13.7	11.1	12.4	12.9	15.1
25 to 54 years	7.3	8.0	7.0	7.4	7.7	8.6	8.1	8.9	7.7	8.2	8.4	9.7
55 to 64 years	9.9	8.8	10.1	8.7	9.7	8.9	9.4	8.8	9.8	9.0	9.0	8.6
65 years and over	10.6	8.6	9.0	7.0	12.0	10.1	10.7	8.3	9.1	6.7	12.1	9.7

## Tips & Considerations

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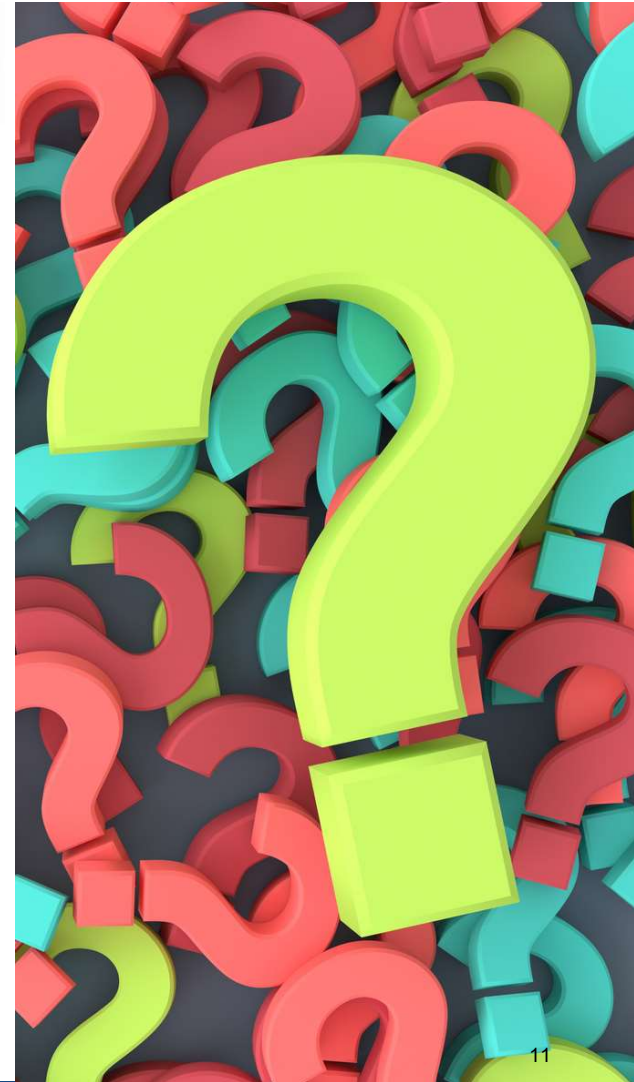


## Tips/Considerations: Research

What is the nature and scope of the research you plan to do?

- Simple univariate analysis?
- Cross tabulations with multiple variables?
- What level of geography?
- What are the confidentiality rules / thresholds?

Research objectives dictate which data products you use





## Tips/Considerations: Universes

- Variables should all be related to the same universe
- Sub-universes
- User-defined universes







## Tips/Considerations: Variables

- Use reference material on Statcan website (e.g. dictionary, reference guides, concept overviews, etc.)
- Always check to see if something can be done
- User-defined variables





## Tips/Considerations: Historical data

- Comparability of geographies
- Comparability of variables
- 2011 National Household Survey (NHS)
- Current dollars



## Tips/Considerations: Free data

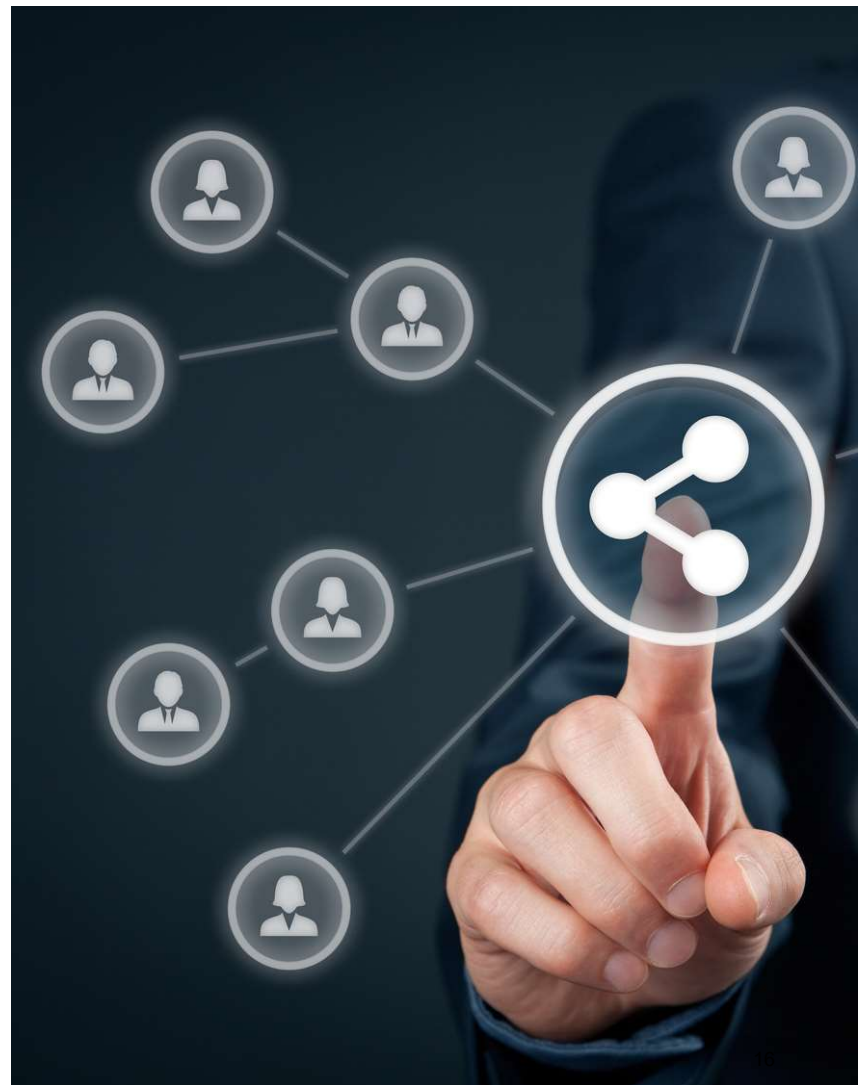
- Provincial/Territorial Statistical Agencies
- Open Government portal
- Library and Archives Canada
- Universities





## Tips/Considerations: Open Data License

- Usage
- Intellectual property
- Acknowledgement



# Beyond 20/20 Professional Browser



Beyond  
20/20





## What is Beyond 20/20?

The Beyond 20/20 Browser is a Windows-based program used to browse Beyond 20/20 tables and extracts. Link:

<https://www.statcan.gc.ca/en/public/beyond20-20>



## Beyond 20/20 Table View

Selected Table

Active Variable(s)

Dimension Bar Inactive Variable(s)

Status bar

Number and age	Census	Families with children aged...	Families with at least one ...	1 child (aged 0 to 24 years)	0 to 5 years	6 to 17 years
Total - Census family structure	878,325.0	4,938,095.0	1,885,545.0	609,205.0	474,105.0	271,015.0
Complex stepfamilies	482,365.0	3,721,250.0	1,248,200.0	474,105.0	271,015.0	142,885.0
Lone-parent census families	3,686,105.0	427,740.0	3,258,370.0	1,089,545.0	454,630.0	223,875.0
Male lone-parent census families	517,510.0	54,635.0	462,880.0	158,650.0	19,475.0	9,475.0
Female lone-parent census families	317,020.0	52,435.0	264,585.0	158,655.0	19,475.0	9,475.0
Complex stepfamilies	200,490.0	2,195.0	198,295.0	0.0	0.0	0.0
Lone-parent census families	1,612,805.0	395,960.0	1,216,840.0	637,345.0	135,100.0	63,975.0
Male lone-parent census families	350,470.0	81,550.0	268,920.0	159,515.0	25,505.0	12,500.0
Female lone-parent census families	1,262,340.0	314,410.0	947,925.0	477,825.0	109,590.0	51,475.0

Data in the Beyond 20/20 table are determined by:

- Dimensions that are “active” in the Table View
- Dimensions that are “parked” in the Table View

The active item of a dimension can be changed by:

- Selecting the dimension by highlighting it
- Using the arrow buttons to cycle/select the items, or dragging-and-dropping the variable into the table

Beyond 20/20 Professional Browser - Census Family Structure Including Stepfamily Status (9) and Number and Age Combinations of Children (29) for Census Famil

File Edit View Dimension Item Window Help

Census family s

Census Family Structure Including Stepfamily Status (9) and Number and Age Combinations of Children (29) for Census Families with Children in Private Households of Canada, Provinces and Territories, Census Di...

Geography: Canada (01) 20000 ( 4.0%) Census year (2): 2016

Census family s	Number and age	Total - Cen...	Families with children aged...	Families with at least one ...	1 child (aged 0 to 24 years)	0 to 5 years	6 to 14 years	15 to 17 years	18 to 24 years	2 children, of which at leas...	Bel...
Total - Census family structure	5,816,420.0	878,325.0	4,938,095.0	1,885,545.0	609,205.0	474,575.0	210,080.0	591,690.0	2,124,620.0		
Couple census families with children	4,203,615.0	482,365.0	3,721,250.0	1,248,200.0	474,105.0	277,985.0	119,495.0	376,615.0	1,711,330.0		
Intact families	3,686,105.0	427,740.0	3,258,370.0	1,089,545.0	454,630.0	233,720.0	92,925.0	308,270.0	1,539,635.0		
Stepfamilies	517,510.0	54,635.0	462,880.0	158,650.0	19,475.0	44,270.0	26,575.0	68,340.0	171,695.0		
Simple stepfamilies	317,020.0	52,435.0	264,585.0	158,655.0	19,475.0	44,270.0	26,575.0	68,340.0	85,210.0		
Complex stepfamilies	200,490.0	2,195.0	198,295.0	0.0	0.0	0.0	0.0	0.0	86,490.0		
Lone-parent census families	1,612,805.0	395,960.0	1,216,840.0	637,345.0	135,100.0	196,590.0	90,580.0	215,075.0	413,285.0		
Male lone-parent census families	350,470.0	81,550.0	268,920.0	159,515.0	25,505.0	47,300.0	24,720.0	61,995.0	84,075.0		
Female lone-parent census families	1,262,340.0	314,410.0	947,925.0	477,825.0	109,590.0	149,295.0	65,865.0	153,080.0	329,210.0		

For Help, press F1 9/9 Total - Census family structure ENG

# Table View Changes

The Table View can be changed by:

- Exchanging Columns for Rows
- Parking dimensions on the Dimension Bar
- Dragging dimension tiles to Row or Column positions
- Nesting tiles
- Changing the language

# Accessing 2021 Census Data Products



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## Census of Population

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

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Canada ▾

1,807,250

Indigenous population,  
2021

9.4

2016 to 2021 Indigenous  
population change (%)

33.6

Average age of the  
Indigenous population

66.5

Homeownership rate (%)



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# CONTACT US

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Thank-you!

Questions?