

## Calgary Data Consortium, Workshop:

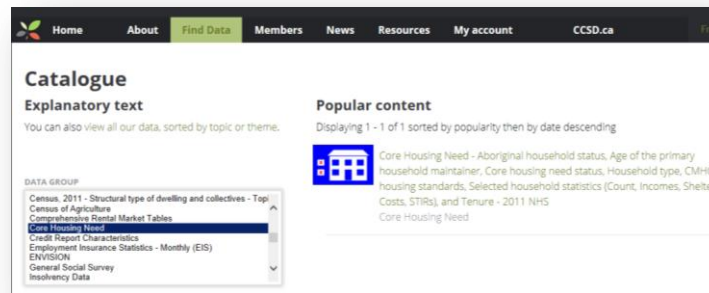
Calgary's / Alberta's Indigenous population: data sources and resources

September 20, 2016

### EXERCISE #1: What proportion of Aboriginal households in Calgary are in Core Housing Need compared to Edmonton?

#### STEP 1. Download the data and open the file

- Type [communitydata.ca](http://communitydata.ca) into your browser, and log in.
- Click the **Find Data** tab at the top.
- Scroll through the list in the **Data Group** filter, and select the **Core Housing Need**. Click search.
- Click on the result that is returned (there should only be one).



- On the next screen, select **PT CD CSD DA** under Geographies. Click **Add to cart**.



- On the Shopping Cart page, click **Checkout**.
- On the Checkout page, click **Submit order**.
- On the File downloads page, click on the filename of the Core Housing Need file (it should be at the top of your list of files, unless you have downloaded the same file previously). The filename is **sc\_nhs-enm\_2011\_chn-biml\_da-ad.zip**

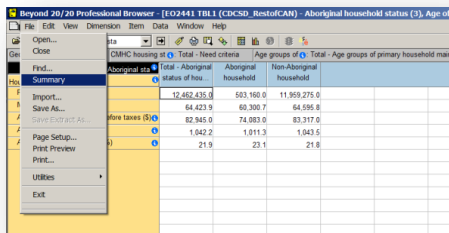
- i) Save the folder to the desired location on your computer. Navigate to where you saved the file, right click, and select “Extract All...”

Name	Date modified	Type	Size
EO2441 - Table 1 CDCSD (Atlantic)	9/9/2016 1:26 PM	Beyond 20/20 Prof...	77,841 KB
EO2441 - Table 1 CDCSD (QC-ON)	9/9/2016 1:26 PM	Beyond 20/20 Prof...	198,983 KB
EO2441 - Table 1 CDCSD (Rest of Canada)	9/9/2016 1:26 PM	Beyond 20/20 Prof...	201,131 KB
EO2441 - Table 3 (DA)	9/9/2016 1:27 PM	Beyond 20/20 Prof...	86,001 KB

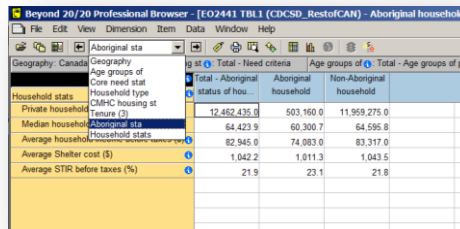
- j) Inside the extracted folder, there are four Beyond20/20 files. Double-click to open the file which says **Rest of Canada** at the end of its name – this contains the Alberta geographies.

**STEP 2. Explore the file**

- a) Click on the **File** menu and then **Summary** to browse through the metadata associated with this file.



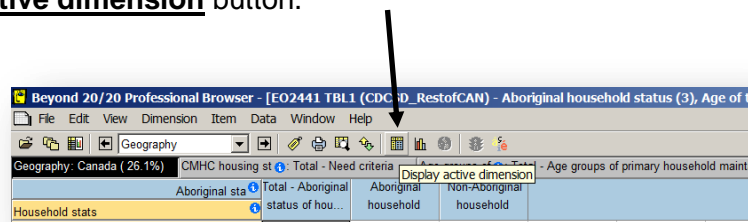
- b) Using the drop-down list, note how many different dimensions are in this file (there are eight).



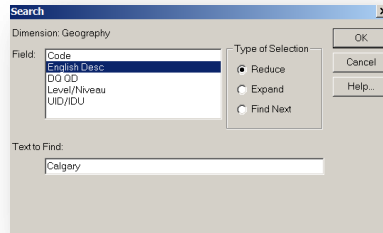
- c) Using the blue “i” logo, read the “Core need stat” dimension summary.
- d) Right click on the “Aboriginal sta” dimension and select “Dimension summary” to read about this dimension

**STEP 3: Narrow down your geography(ies) of interest**

- a) Select from the drop-down menu or click the heading to make the Geography dimension active.
- b) Click the **Display active dimension** button.



- c) Click the **Search** button at the top. From the list of fields, select **English Desc**, and ensure **Reduce** is selected under Type of Selection. In the Text to Find box, type **Calgary**, and click OK.



- d) Click the Search button again; from the list of fields select English Desc, but this time ensure Expand is selected under Type of Selection. In the Text to Find box, type **Edmonton**, and click OK. Close the active dimension window using the small “x”. You have now reduced the geography dimension to just Calgary and Edmonton.

#### STEP 4: Manipulate the dimensions

- Leave the “Household stats”, “Household type”, “Tenure (3)”, and “CMHC housing st” dimensions docked at the very top (we won’t be using these).
- Put the “Aboriginal sta” dimension so it runs along the top
- Put the “Core need stat” dimension on the left side.
- Drag the Geography dimension to the left of where the Core need stat dimension is situated until a blue line appears, then let go.

Aboriginal sta	Total - Aboriginal status of hou...	Aboriginal household	Non-Aboriginal household
<b>Core need stat</b>			
Total - Core need status	402,020.0	14,375.0	387,650.0
Household in core housing need	42,170.0	2,445.0	39,720.0
Household not in core housing need	359,855.0	11,925.0	347,925.0

Geography	Core need stat	Aboriginal household	Non-Aboriginal household
Calgary CY (23.0%)	Total - Core need status	402,020.0	387,650.0
	Household in core housing need	42,170.0	39,720.0
	Household not in core housing need	359,855.0	347,925.0
Edmonton CY (25.8%)	Total - Core need status	306,665.0	287,300.0
	Household in core housing need	40,105.0	35,075.0
	Household not in core housing need	266,565.0	252,225.0

- e) Click on the **Aboriginal household** header, then right-click and select **Copy**. Even though only the Aboriginal household column is highlighted in black, all the row labels will also copy over.

#### STEP 5. Copy into Excel and calculate percentages

- f) Open a new Excel sheet, and paste the cells. Calculate the proportion of Aboriginal households in core housing need in Calgary and in Edmonton.

## EXERCISE #2: How many persons with Aboriginal identity in Calgary know an Aboriginal language?

### STEP 1. Download the data and open the file

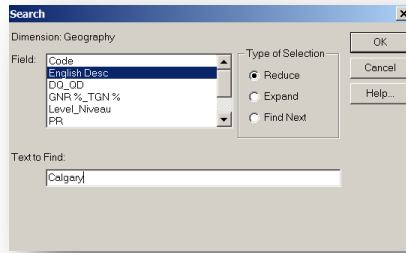
- a) Type [communitydata.ca](http://communitydata.ca) into your browser, and log in.
- b) Click the **Find Data** tab at the top.
- c) Scroll through the list in the **Data Group** filter, and select **NHS, 2011 – Target Group Profile**. Click search.
- d) Scroll through the results until you see the Target group profile of the Aboriginal identity population. (hint: you may have to go to the third page of results).
- e) On the next screen, select **PT CD CSD DA** under Geographies. Click **Add to cart**.
- f) On the Shopping Cart page, click **Checkout**.
- g) On the Checkout page, click **Submit order**.
- h) Click on the filename on your “File downloads” page and save it to the appropriate place on your computer or network.
- i) Navigate to where you saved the file, and unzip it.
- j) Double click on the Beyond20/20 icon to open the file (there should only be one).

### STEP 2. Explore the file

- a) Click on the **File** menu and then **Summary** to browse through the metadata associated with this file, then close that window.
- b) Using the drop-down list, note how many different dimensions are in this file (there are two).

### STEP 3. Narrow down to your geographies of interest

- a) Make the Geography dimension active by clicking on the header or selecting it in the drop-down menu.
- b) Click the **Display active dimension** button.
- c) Click the **Search** button at the top. From the list of fields, select **English Desc**, and ensure **Reduce** is selected under Type of Selection. In the Text to Find box, type **Calgary**, and click OK.



#### STEP 4. Manipulate the dimensions

- a) Put the Geography dimension along the top, and the 2011 NHS dimension along the left side.

Geography	Calgary, CY (23)	2011 NHS	0%
Total population in private households by citizenship	28,905		
Canadian citizens	28,800		
Canadian citizens aged under 18	9,790		
Canadian citizens aged 18 and over	20,070		
Not Canadian citizens	105		
Males in private households by citizenship	13,965		
Canadian citizens	13,915		
Canadian citizens aged under 18	4,395		
Canadian citizens aged 18 and over	9,575		
Not Canadian citizens	50		
Females in private households by citizenship	14,945		
Canadian citizens	14,895		
Canadian citizens aged under 18	4,400		
Canadian citizens aged 18 and over	10,495		

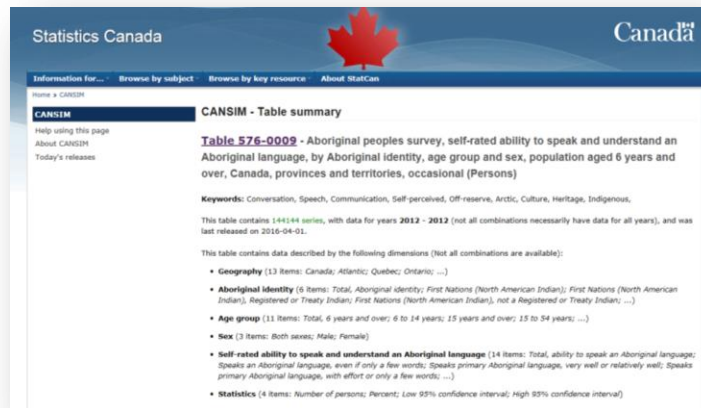
- b) With the 2011 NHS dimension active, click the **Search** button.
- c) Under the Field list, select **English Desc**. Under Type of Selection, select **Find Next**. In the Text to Find box, type language.
- d) Click the blue “i” next to Total population in private households by non-official languages spoken.
- e) There are 1,070 Aboriginal identity persons in Calgary who can conduct a conversation in an Aboriginal languages. As a share of the total Aboriginal identity population (28,905), this is 3.7 per cent.

#### STEP 5. Check CANSIM for complementary data

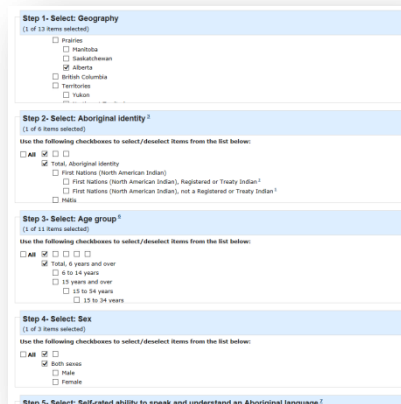
- a) Type **CANSIM** into your search engine and click on the first result.
- b) Under the Browse CANSIM by header, click **Aboriginal peoples**.



- c) Under the “CANSIM by Subject: Aboriginal peoples” heading, click on **Languages and cultures (14 tables)**
- d) Browse through the titles of the available tables. Click on the **Description** link beside Table 576-0009.
- e) On the CANSIM – Table summary page, read about the dimensions available in this table. Note that there is a dimension “Self-rated ability to speak and understand an Aboriginal language”.
- f) Click the **Table 576-0009** number.



- g) Click the Add/Remove data tab at the top of the screen. Now select the desired items Under Option 2, “Customize a table view”. Under Step 1-Select:Geography, uncheck Canada, and scroll down to select Alberta. Under Step 2-Select: Aboriginal identity, keep the default checked of Total, Aboriginal identity. Also keep the defaults for Step 3 – Age group and Step 4: Sex.



- h) Under Step 5, click the checkbox beside “All” to unselect everything. Click the checkboxes beside “Speaks an Aboriginal language, even if only a few words”, and scroll down and select “Understands an Aboriginal language, even if only a few words.” Under Step 6, select “Number of persons” and “Percent”. Click Apply under Step 9.