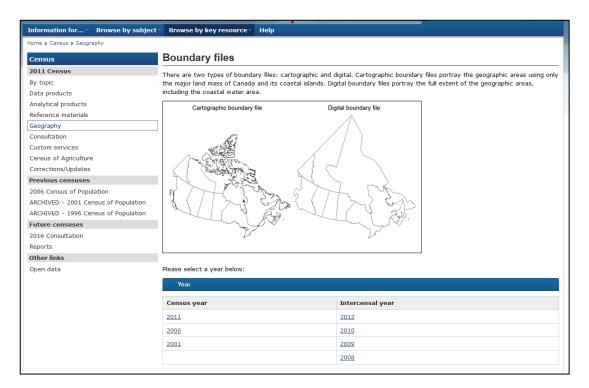
## **Instructions for Mapping 2011 Census Data**

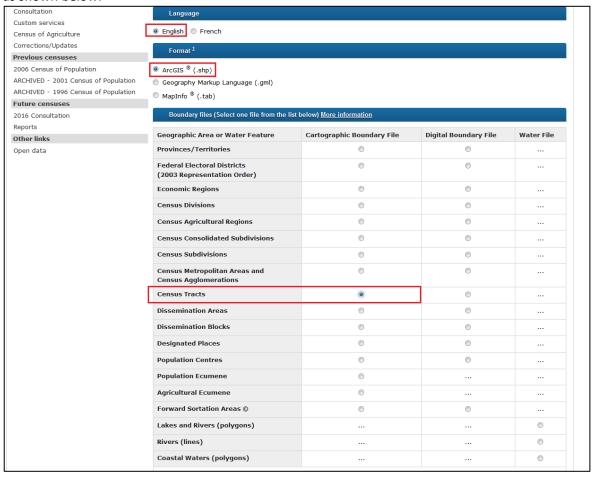
To map 2011 census data, you must download the census boundary files and the census data separately, then join the two files in ArcMap. In this guide, we will download the 2011 population for each census tract in Toronto.

## **Downloading Census Boundaries**

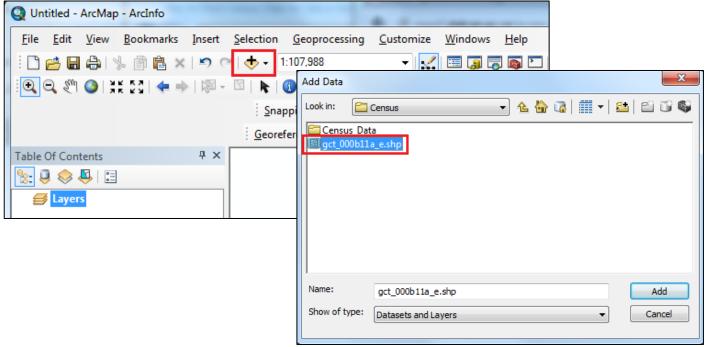
- 1. To download the census boundaries, go to the Statistics Canada census boundary files web page. http://www12.statcan.gc.ca/census-recensement/2011/geo/bound-limit/bound-limit-eng.cfm
- 2. Click on the appropriate year to download. Note the difference between the cartographic and digital files. For our purposes, we want to download the cartographic boundary file.



3. Select the language and the format of the boundary, and select Census Tracts under Cartographic Boundary File, as shown below.

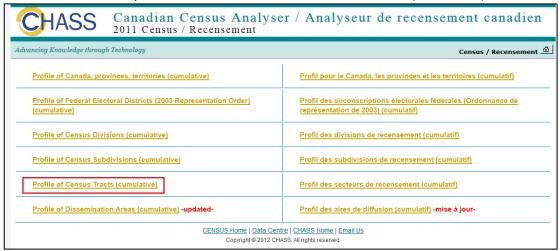


4. Download the zip file to an appropriate folder. Unzip the file, then open ArcMap. Use the add data button to add the census tracts to ArcMap.

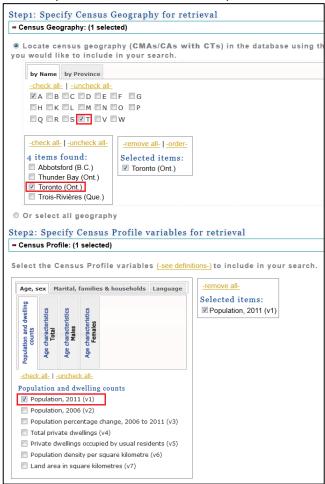


## **Downloading the Census Data**

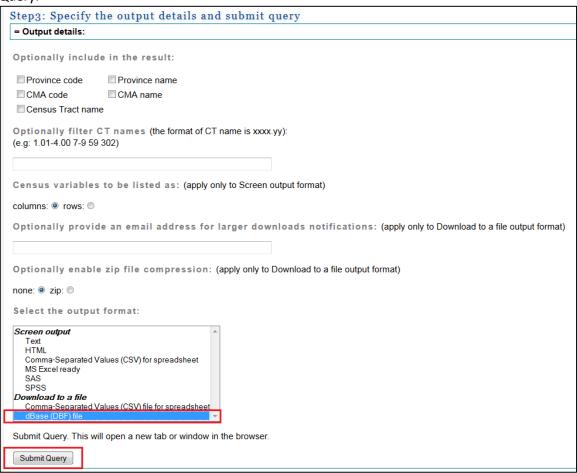
- 1. The next step is to download the census data, using the CHASS Canadian Census Analyzer. <a href="http://dc1.chass.utoronto.ca/census/index.html">http://dc1.chass.utoronto.ca/census/index.html</a>
- 2. Select 2011 for the year, and then choose Profile of Census Tracts (cumulative).



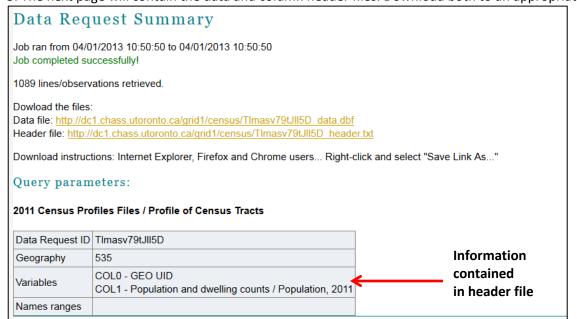
3. Next, choose 2011 Population for Toronto. Check the "T" box at the top, and select Toronto. In the variables box, select Population, 2011, under the Population and dwelling counts tab. You can also add additional variables here.



4. Next, choose your output options, in the same page. Make sure to select dbase (DBF) file, and click Submit Query.



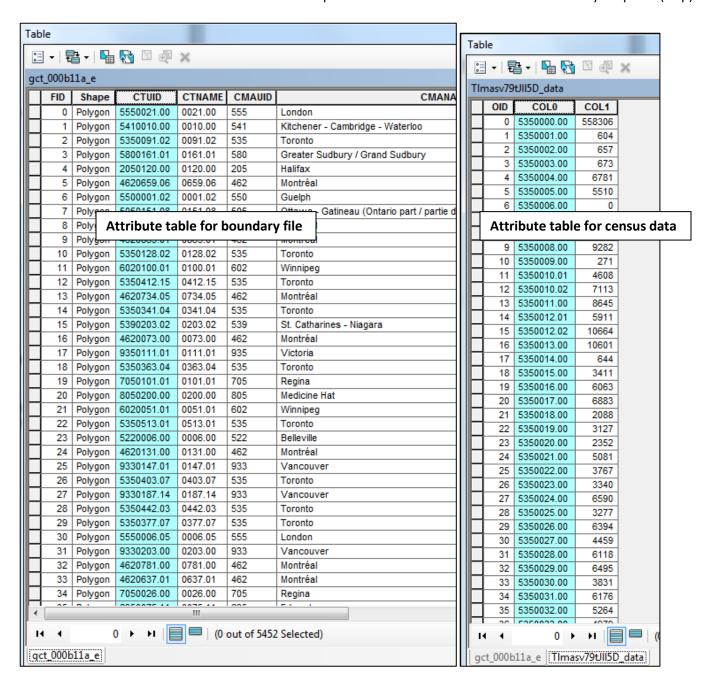
5. The next page will contain the data and column header files. Download both to an appropriate folder.



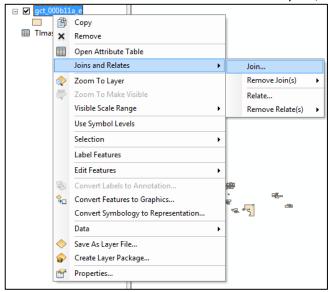
6. In ArcMap, add the data file to the map, using the Add Data button. The header file will contain the names of the columns in the shapefile.

## Joining the Data and Boundary Files Using ArcMap

- 1. In ArcMap, you should have the tracts file and the data file both showing in the table of contents on the left side of the screen.
- 2. To join the two tables, they must have a common field that contain the same values. To identify the common field, right click on each file and select "Open Attribute Table". You will notice that the COLO column in the data table is the GEO UID in the header file. COLO corresponds with the CTUID column in the boundary shapefile (.shp).

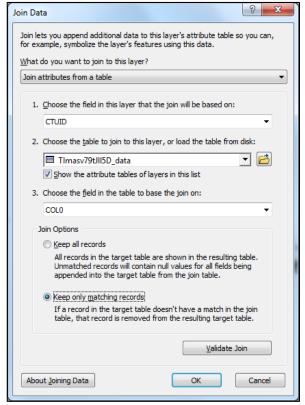


3. To join the census data to the boundary file, right click on the boundary file and select "Joins and Relates" > "Join...". Note: You must start with the boundary file, not the data file.

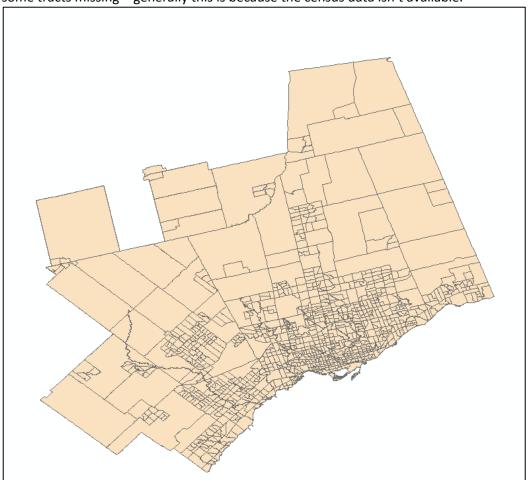


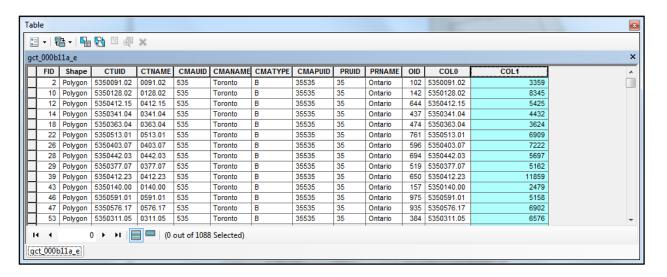
- 4. Fill out the form that pops up. Options should be:
  - Join attributes from a table
  - CTUID this is the field from the boundary file layer
  - the census data table
  - COLO this is the field from the census data table that matches the first field
  - Keep only matching records

We only want the matching records because we only want the census tracts from Toronto. If you recall, the census tracts are for all of Canada, and the census data table is only for Toronto.



5. You should be left with a map of the census tracts in Toronto, with the 2011 population counts in the attribute table. COL1 is the population count – remember to check the header file to see the column names. There may be some tracts missing – generally this is because the census data isn't available.





6. The joined shapefile is only a temporary file. To save it as a permanent shapefile, right click on the shapefile on the left side of the screen, and select Data → Export Data. Name and save this file to an appropriate folder.

