BROCK UNIVERSITY MAP LIBRARY

Instructions For
Obtaining Census Data and Choropleth Mapping Using E-Stat

1. Access E-Stat through the *James A. Gibson Library* [http://www.library.brocku.ca/]. Under the **Research Tools** heading, select "Databases". From the "Alphabetical list of database titles" select "E".

   Select "E-Stat: Connect". A screen with a description of E-Stat will display. Select "E-Stat". Select the "Accept and Enter" button on the E-Stat home page.

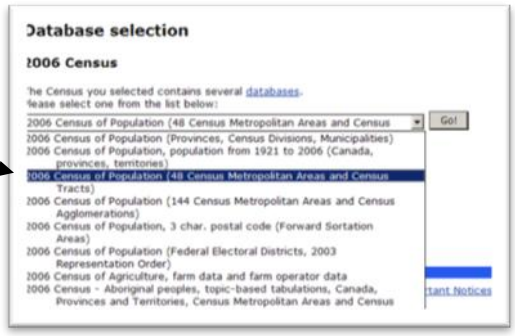
2. Select the "Search Censuses in E-Stat" option.

Search Censuses in E-Stat (button and link)

3. **Select a Census:** A list of census years is provided. Select the year of interest from the list provided. Select "Go".

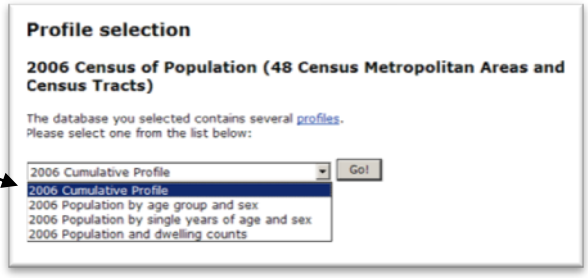
4. **Database Selection**: The Census selected in the previous step has several associated databases. Select the desired database (based on the subject and geography). Select "Go".

i.e. 2006 Census of Population (48 **Census Metropolitan Areas** and **Census Tracts**)



5. **Profile Selection:** The database chosen has several profiles. Select the desired profile. Select "Go".

i.e. 2006 Cumulative Profile—all data will be provided.



6. **Selection** page:

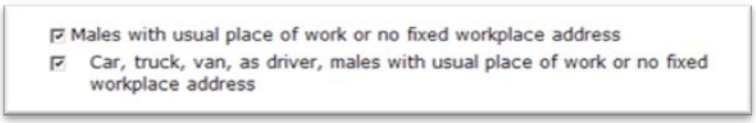
There are three steps to complete:

Step 1: Select a geographic region: A list of geographic regions is provided; select the location that best fits the study area.

In this example, the data will represent each census tract in the St. Catharines - Niagara area.

Step 2: Select one or more characteristics: A list of variables from the cumulative profile is provided; select the variable (s) to study.

The variables can be highlighted in the scroll down menu; or, the "View Checklist" button (shown in the example) can be used to select variables—select the "Return to selection page" button once complete.



Note: To make a choropleth map, it is necessary to select both the variable and the total figure for the variable.

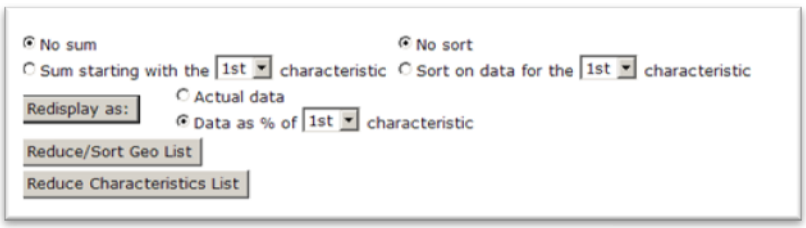
Step 3: Choose an output format: A list of formats for the display of the data is provided. It is necessary to do calculations on the raw data before creating a choropleth map.
Select "HTML Table (Geography-Rows)". Select the "Retrieve now" button.

While the example will display the data in screen output, there is the option to download the data to a file for use in computer applications, i.e. Excel.

The data for each census tract will display in chart form with columns for each selected variable.

7. In the middle of the HTML Table (Geography-Rows) page, there is a section to perform calculations on the data.

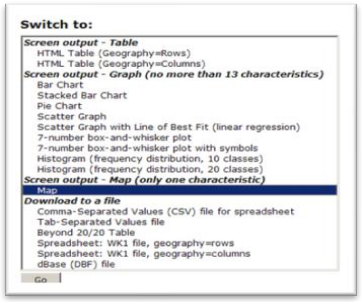
Redisplay as button →



For choropleth maps, the data must be shown as a % otherwise the map will be created with actual/real data, which is not an accurate representation.

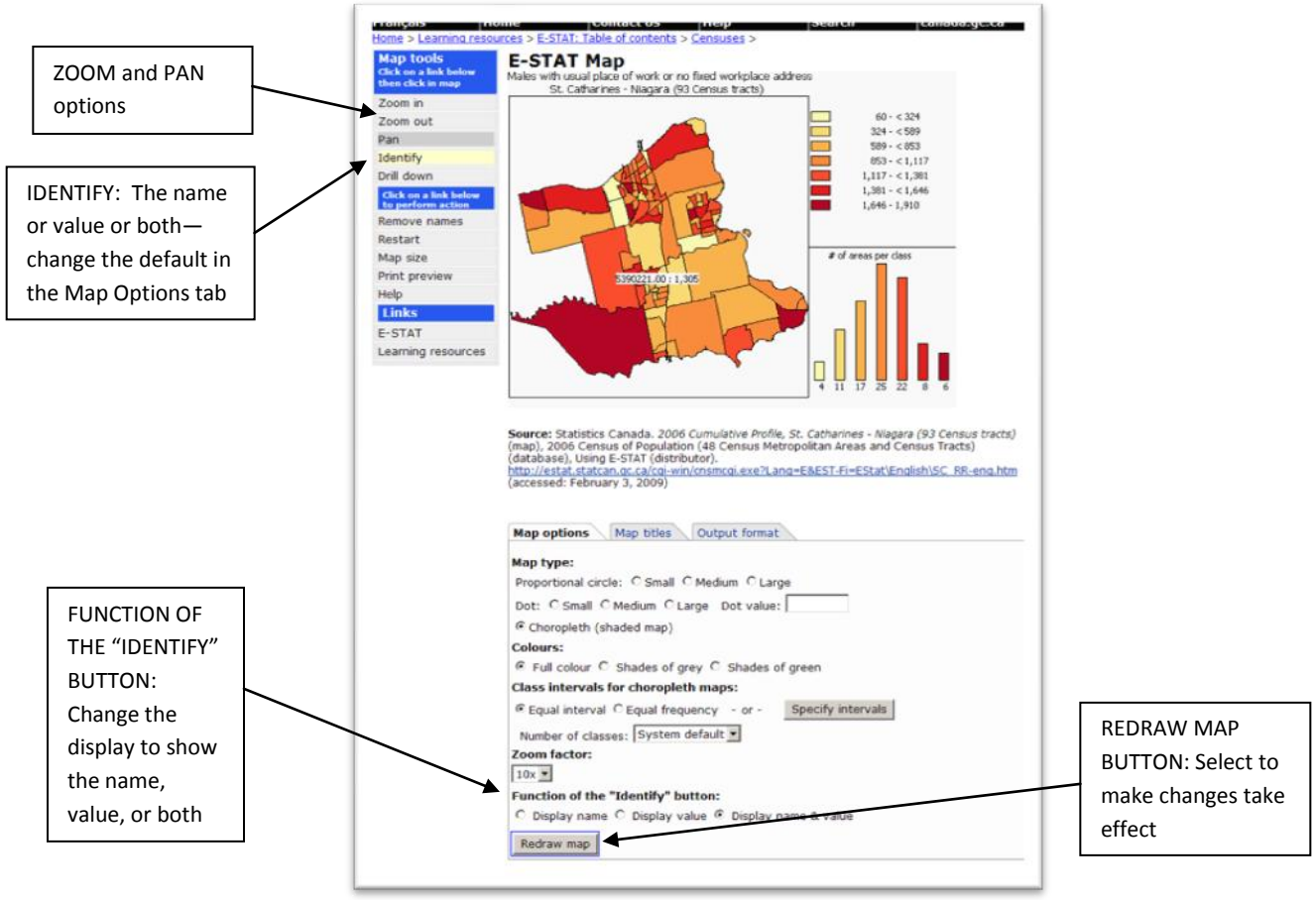
Select "Data as % of 1st characteristic" (make sure the total column is in the 1st column—otherwise change the number (i.e. 1st) to reflect the totals).

8. In the **switch to** portion of the HTML Table (Geography-Rows) page, select "Screen output- Map". Select "Go".

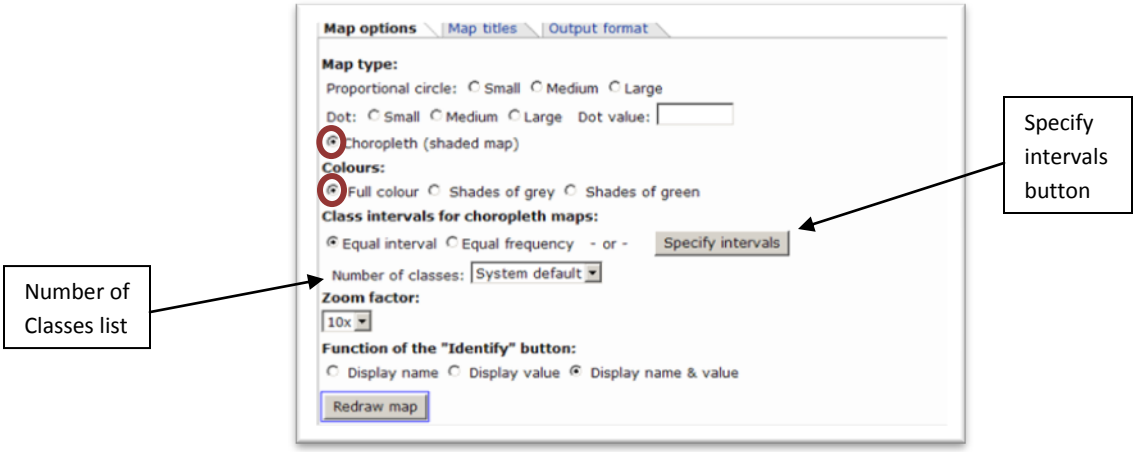


Choropleth Mapping Options in E-Stat

E-Stat map offers basic interactive mapping tools that can be used to display the map.



1. In the **Map options tab**, there is the ability to specify the number of classes, range of intervals, and other graphical options of the map interface.



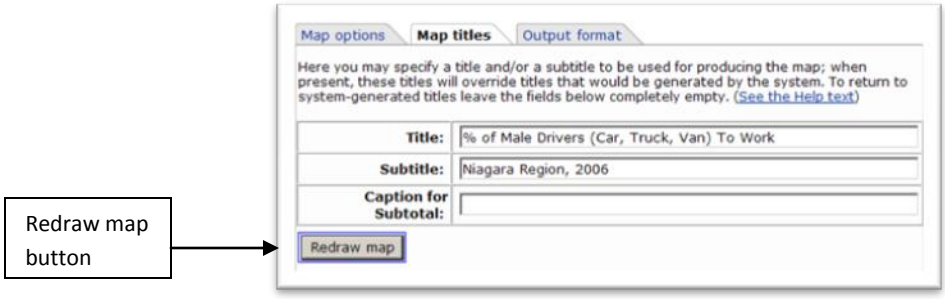
Select "Choropleth (shaded map)" (note that proportional circle and dot maps can also be made using preset diameters). Select the colour scheme "Full Colour".

2. Examine the data (for example, using the histogram beside the map window) to determine how many classes are desired and how the data should be divided between intervals.

   To display the map using the natural breaks method:

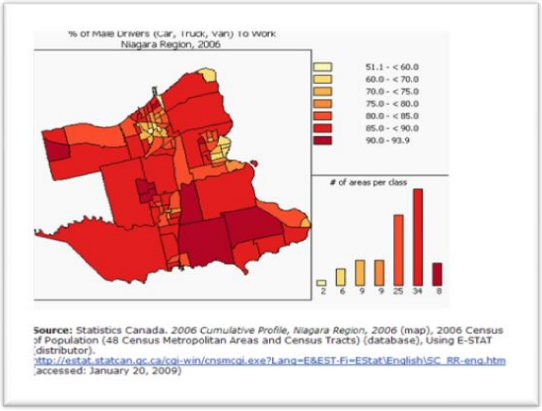
   a) Change the number of classes from the system default.
   b) Select the "Specify intervals" button. Enter a value for each interval.

3. In the **Map titles tab**, there is the option to specify a title, subtitle, and caption for subtotal (available only if a sum has been calculated). The user's titles will override the system generated titles.



4. Select the "Redraw map" button.

   Note: The **Output format tab** allows the user to change the format to a chart or to make further edits to the data displayed.



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