

Demography of Education in Toronto's neighbourhoods with Highest and Lowest Income

23/01/2020

Abstract

what was done, what was found, and why this matters. Descriptive, no prediction

Wellbeing Toronto - Demographics: NHS Indicators

The data set package we delved into is *Wellbeing Toronto - Demographics: NHS Indicators*, which provides information from the 2011 National Household Survey (NHS) and presents a profile of Toronto. Data is broken down by the 140 neighbourhoods that make up the City of Toronto. With this data set package, we first identify the two neighbourhoods that have the highest income and the lowest income and then analyze the education demographics in these two neighbourhoods to understand difference of education attainment between these two neighbourhood. We also identify the median household income and the average education levels of the city to be compared with the two neighbourhoods.

There are two data sets in this package in which we combine into one single data set: *Demographics NHS Indicators 2011* and *Education NHS Indicators 2011*. *Demographics NHS Indicators 2011*, in order to create a combined dataset with income and education levels in one dataset.

Additionally, We incorporate the *Wellbeing Toronto - Housing* data set strictly for extracting the names of the neighbourhoods; no housing indicators are used in our analysis.

Demographics NHS Indicators 2011 data set

Demographics NHS Indicators 2011 shows the profile of each neighbourhood regarding population breakdown by ethnicity, household income, education level, employment, age and sex. The indicators we are interested in are *Median household total income* and *Median after-tax household income*. These two columns show the median household income of every neighbourhood before and after tax in Canadian dollars.

Hood#	Median household total income \$	Median after-tax household income \$
ID	incprhh14	incprhh58
1	66241	59703
2	49934	46986
3	62042	57522
4	56545	51194
5	50846	49425

Education NHS Indicators 2011

Education NHS Indicators is provided for the population of age 15 and over living in private households. The data set presents the distribution of people's most advanced education level in each neighbourhood.

The levels we selected in the analysis are presented as follow.

x
No certificate, diploma or degree
High school diploma or equivalent
College, CEGEP or other non-university certificate or diploma
Bachelor's degree
University certificate, diploma or degree above bachelor level

Wellbeing Toronto - Housing

Wellbeing Toronto - Housing data set is used in order to extract the names of the neighbourhood. The indicators of housing are not in the scope of our analysis.

Neighbourhood	Neighbourhood Id
West Humber-Clairville	1
Mount Olive-Silverstone-Jamestown	2
Thistletown-Beaumont Heights	3

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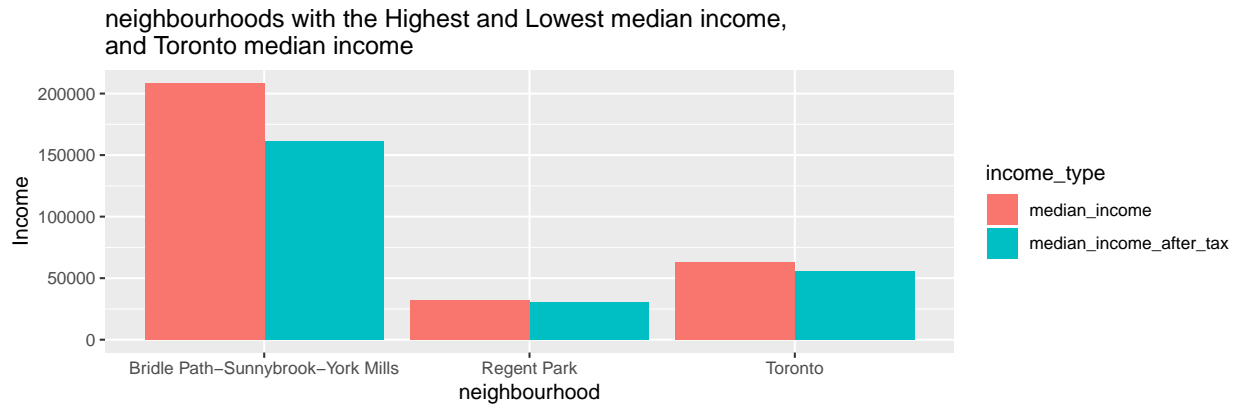
Merging all datasets

Explanation

ID	neighbourhood	total_population	median_income_after_tax
41	Bridle Path-Sunnybrook-York Mills	9585	161448
72	Regent Park	8605	30794
NA	Toronto	18662	55426

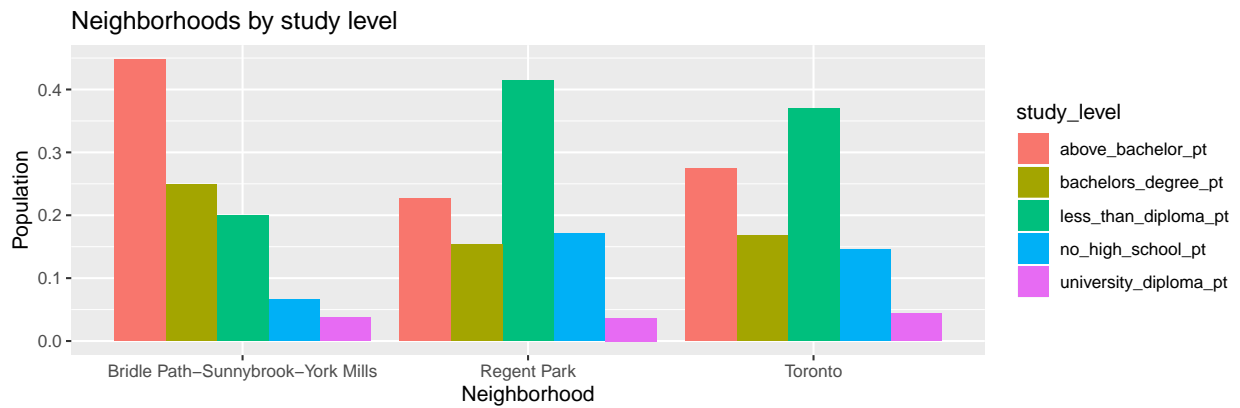
Analysing the neighbourhoods with the highest and lowest income, and Toronto's median

Finally, the median total income is presented in a bar graph comparing the median for that neighbourhood as compared to the median for the entire city of Toronto.



Create graph2 dataframe

Plotting Graph2



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