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

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Abstract

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

Warning: NAs introduced by coercion

Wellbeing Toronto - Demographics: NHS Indicators

The data set package we delve 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 analysize 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 used in the analysis: Demographics NHS Indicators 2011 and Education NHS Indicators 2011. Additionally, we incorporate the Wellbeing Toronto - Housing data set solely 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.

From this data set, we identify the neighbourd with the highest median household income (Bridle Path-Sunnybrook-York Mills) and the neighbourd with the lowest median household income (Regent Park). We also calculate the median household income of all neibourhoods in the city of Toronto as summary statistics to be compared with the two neighbourhoods, appended to the last row.

Table 1: Median household income before and after tax.

neighbourhood	median_income	$total_population_aged_15_years_and_over_by_highest_certification and all over_by_highest_certification and$
Bridle Path-Sunnybrook-York Mills	208674	
Regent Park	32172	
Toronto	62730	

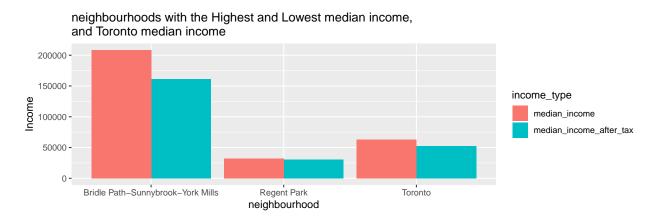
Education NHS Indicators 2011

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. Because the population in each neighbourhood is different, we can not compare the percentage of education attainment by the absolute values provided in the data set. Therefore, we transform the data to relative

values. The transformation is done by aggregating the number of population in all education levels and dividing it by the number in each education level.

neighbourhood	no_high_school_pt	above_bachelor_pt	university_diploma_pt	less_than_dip
Bridle Path-Sunnybrook-York Mills	7	45	4	
Regent Park	17	23	4	
Toronto	15	27	4	

Median Total Household Income Graph



Education Levels Percentage Graph

