
Deliverable 2: Early Insights Report

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1 Overview

1.1 Key Questions

1. What is the current distribution of landlords NOT currently enrolled in different affordable housing programs?
 - a. # of units
 - b. Geographic distribution (by zip code)
 - c. Demographic profile of census block group (majority race, ethnicity, income)
2. What is the current distribution of landlords and housing listed in current affordable housing programs?

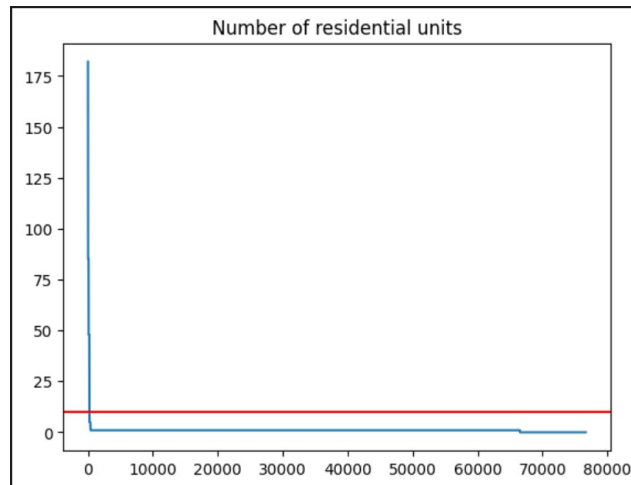
2 Methods

From our meetings, we decided that grouping properties by neighborhood would be the best way to visualize the distribution.

2.1 Filtering Commercial Units

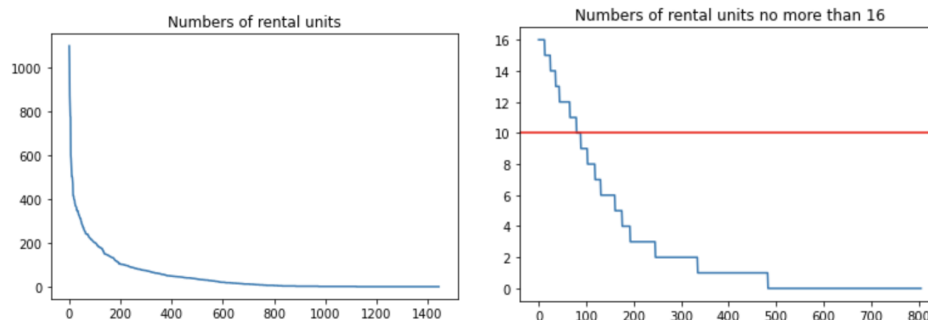
In order to get an accurate picture of non-commercial units, we wanted to filter out large-scale rental properties with many units. To decide where to make the cutoff, we looked at the distribution of the number of units in each dataset.

Figure 1: Plot of the number of rental units in each property. Taken from the Analyze Boston Property Assessment FY2022.



As the figure above illustrates, properties with more than 10 units are likely to be large-scale commercial properties. The following figures show a similar trend in the income-restricted housing:

Figure 2: Plots of the number of rental units in each property. Right plot is a filtered version of the first. Taken from the Analyze Boston Income-restricted Housing Inventory 2021.



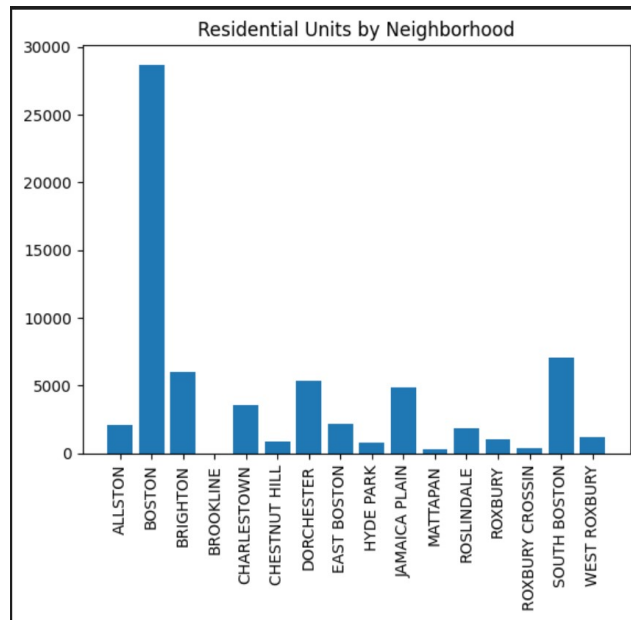
As such, we excluded all properties with 0 rental units, and more than 10 rental units from both datasets.

3 Results

Using these datasets, we plotted the distribution of the units by neighborhood:

3.1 Distribution of non-commercial rental units

Figure 3: Distribution of all non-commercial rental units. Taken from the Analyze Boston Property Assessment FY2022.



3.2 Distribution of income-restricted units

Figure 4: Distribution of non-commercial, income-restricted rental units. Taken from the Analyze Boston Income-restricted Housing Inventory 2021.

