Toronto Emergency Homeless Shelter Availabilities*

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In this paper I analyze the occupancy and capacity of emergency homeless shelters across Toronto.

1 Introduction

You can and should cross-reference sections and sub-sections. We use R Core Team (2023) and Wickham et al. (2019)

The remainder of this paper is structured as follows. Section 2….

2 Data

Some of our data is of occupancy rate of shelters across the months (Figure 1), from Gelfand (2022).

3 check if occupancy rate varies over months

Month	Mean Occupancy Rate
1	98.82139
2	99.17026
3	98.53031
4	98.93704
5	99.13200
6	98.77187
7	99.12143
8	99.37291
9	99.36013

Figure 1: Shelter Occupancy Rate in 2024 Over the Months

Table 2: Number of Unique Shelters vs FSA

FSA	Number of Shelter Locations
M5A	7
M5R	4
M5C	3
M5S	3
M6H	3
M6K	3

Figure 2: **?(caption)**

4 first find num shelters per fsa

```
hist(fsa_shelters$numshelters)
```

Histogram of fsa_shelters$numshelters
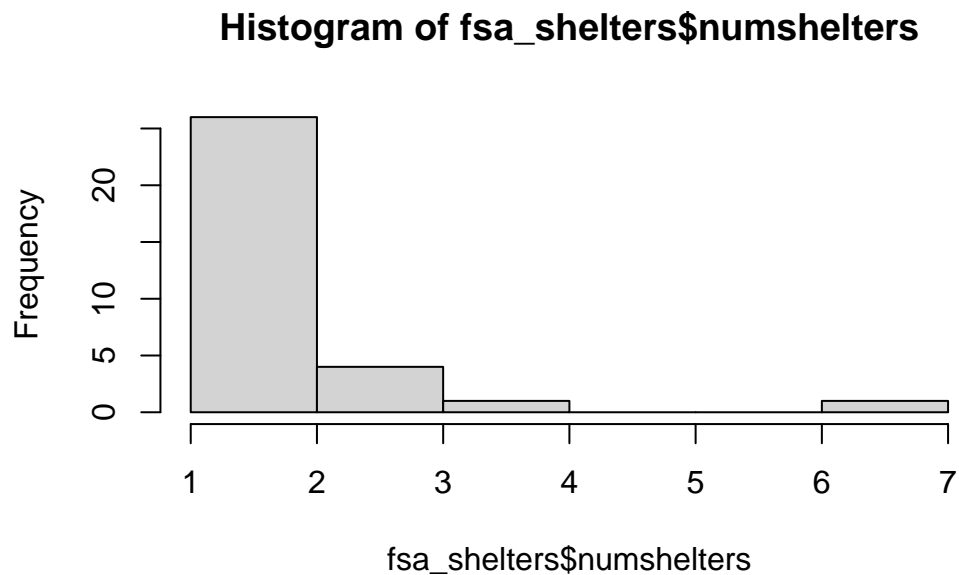
5 discuss summary stats of funding capacity in text, can consider to only include top few rows of this table

6 Results

Our results are summarized in **?@tbl-modelresults**.

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*Code and data are available at: https://github.com/cher-ning/shelter_occupancies
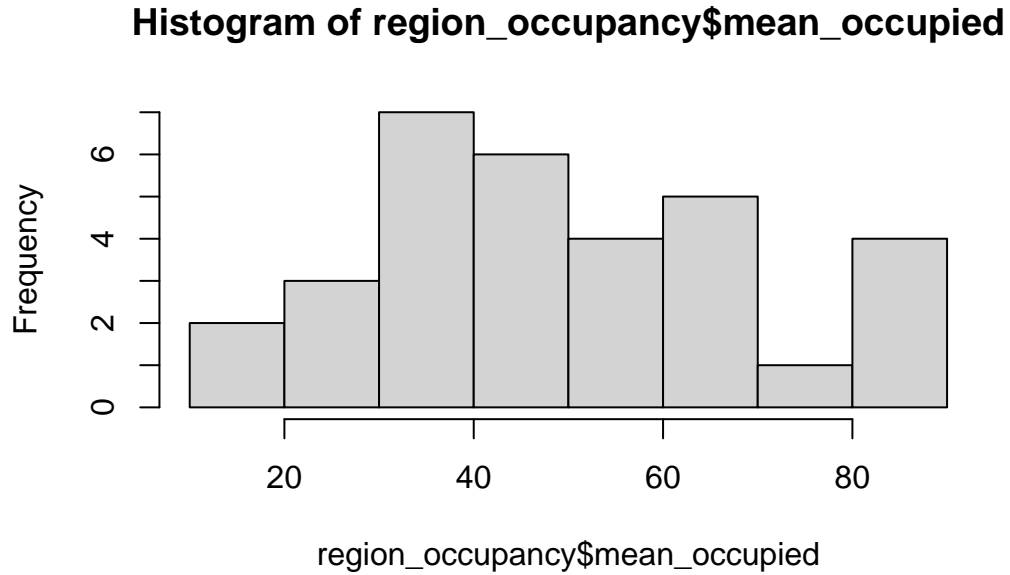
Histogram of region_occupancy$mean_occupied

Figure 3: Average Bed Occupancy of Shelters Across Different FSA Regions

Histogram of data$funding_capacity
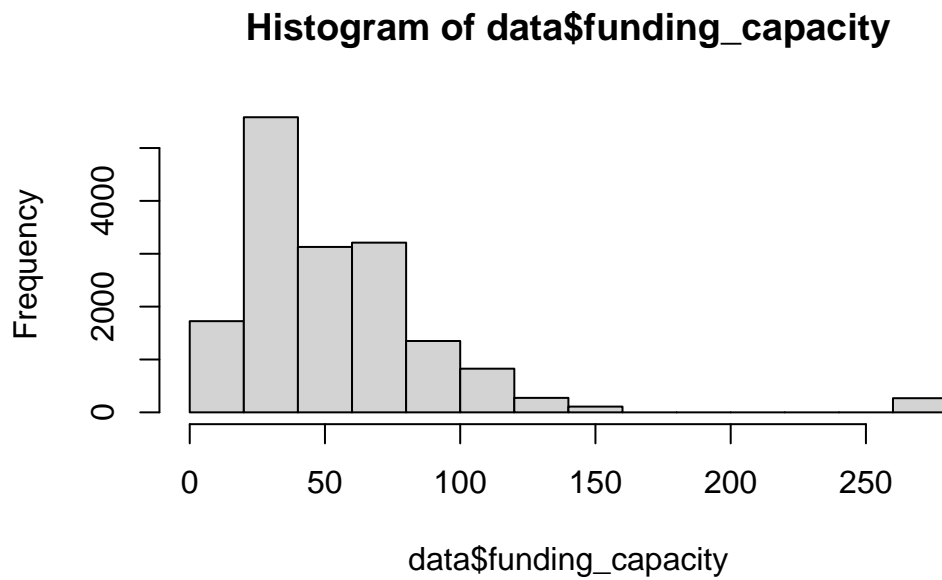
Figure 4: Funding Capacities of Toronto Emergency Shelters

Histogram of funding_means$mean_fundingcap
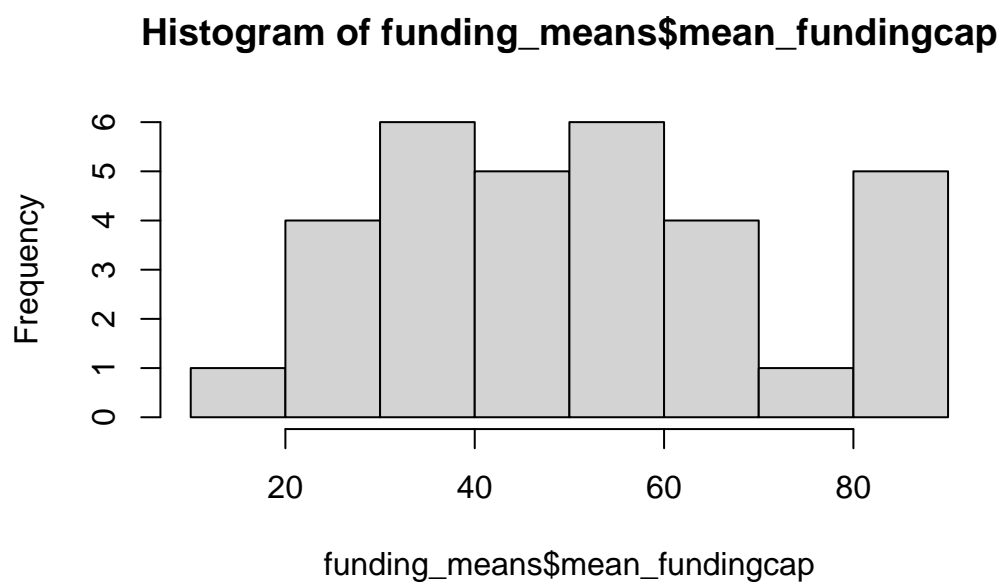

Figure 5: **?(caption)**

Table 3: Number of Unavailable Beds/Night At Different FSAs

FSA	Average Number of Unavailable Beds
M2N	9.225352
M5G	9.140187
M6K	4.385066
M5V	4.248835
M4C	3.630682

Figure 6: **?(caption)**

7 Discussion

7.1 First discussion point

If my paper were 10 pages, then should be be at least 2.5 pages. The discussion is a chance to show off what you know and what you learnt from all this.

7.2 Second discussion point

7.3 Third discussion point

7.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

Appendix

A Additional data details

References

Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal.* https://CRAN.R-project.org/package=opendatatoronto.

R Core Team. 2023. *R: A Language and Environment for Statistical Computing.* Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.