

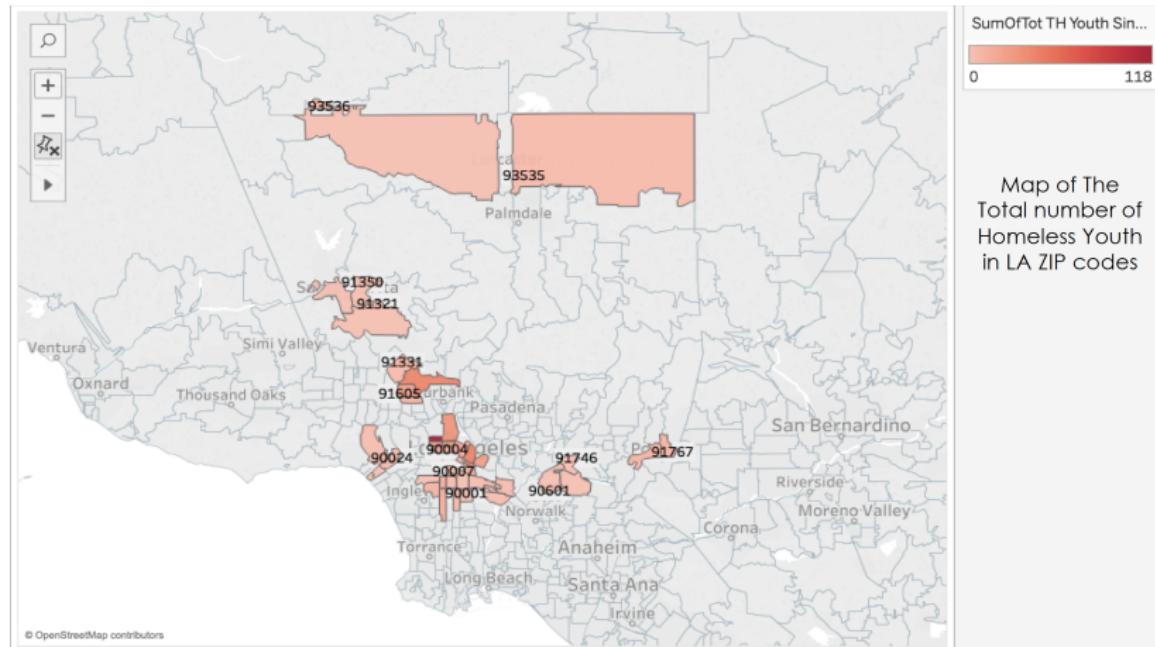
November 6, 2018

Finding a Place to Sleep

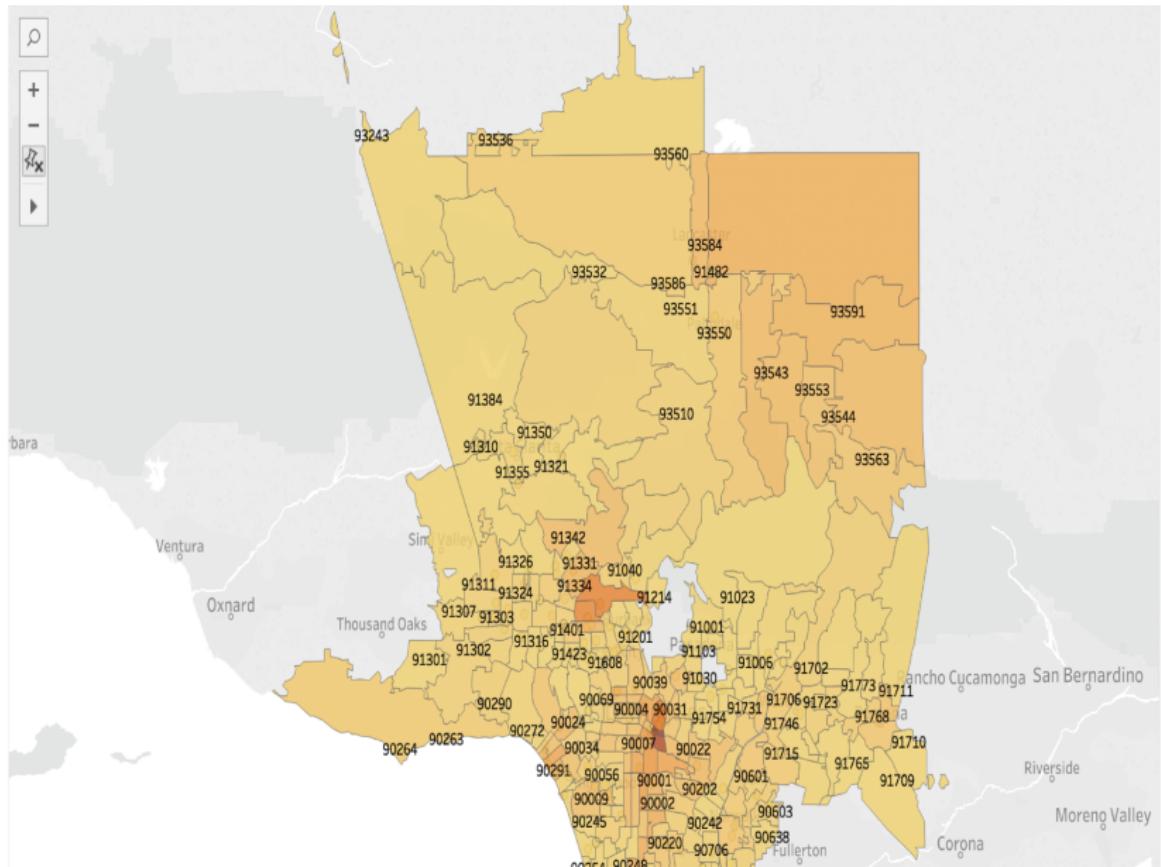
An analysis of the homeless population in Los Angeles and
shelters where they can find a bed

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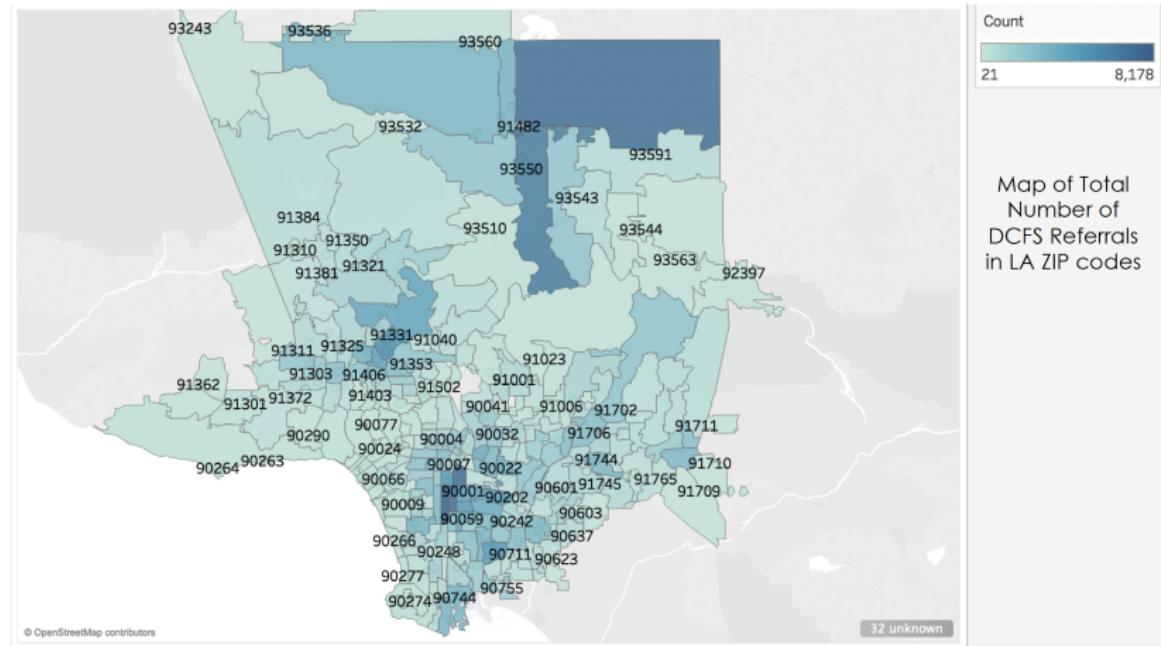
Map of The Total number of Homeless Youth in LA ZIP codes



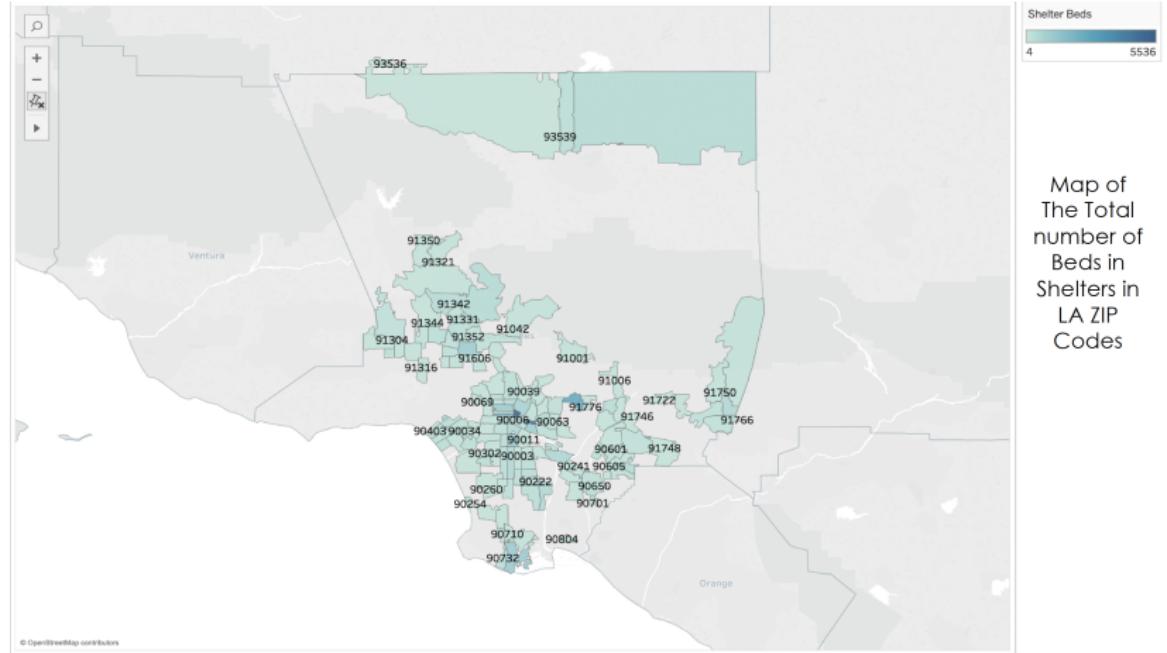
Map of The Total number of Homeless in LA ZIP Codes



Map of Total Number of DCFS Referrals in LA ZIP codes



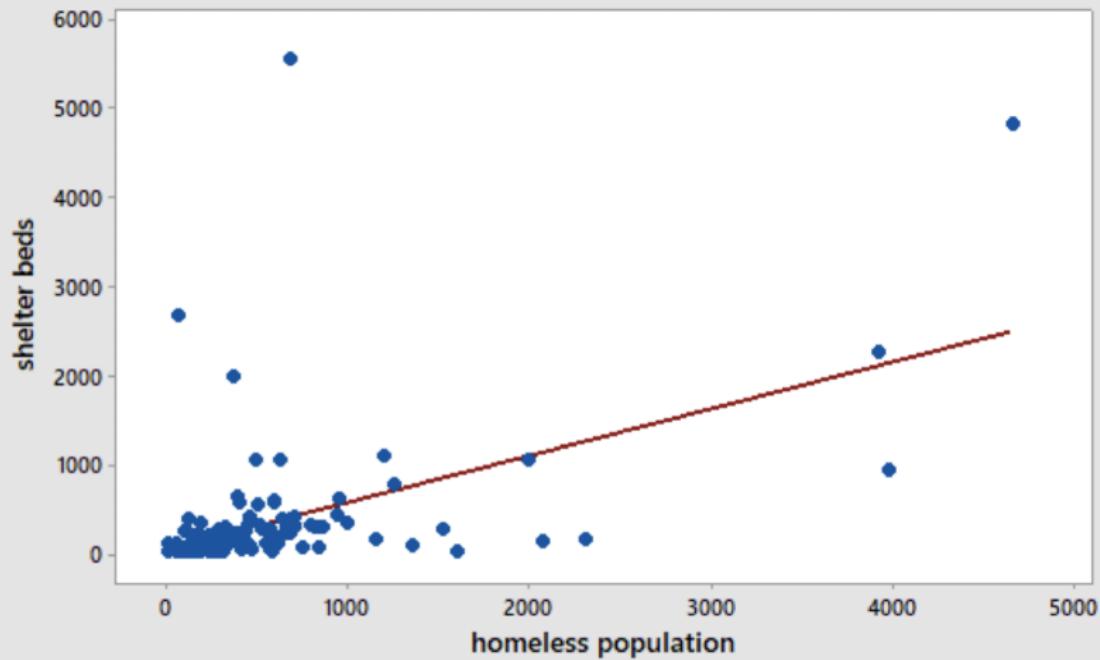
Map of Total Number of Beds in Shelter in LA ZIP codes



Map of The Total number of Beds in Shelters in LA ZIP Codes

Regression Line

Scatterplot of shelter beds vs population



The Outliers

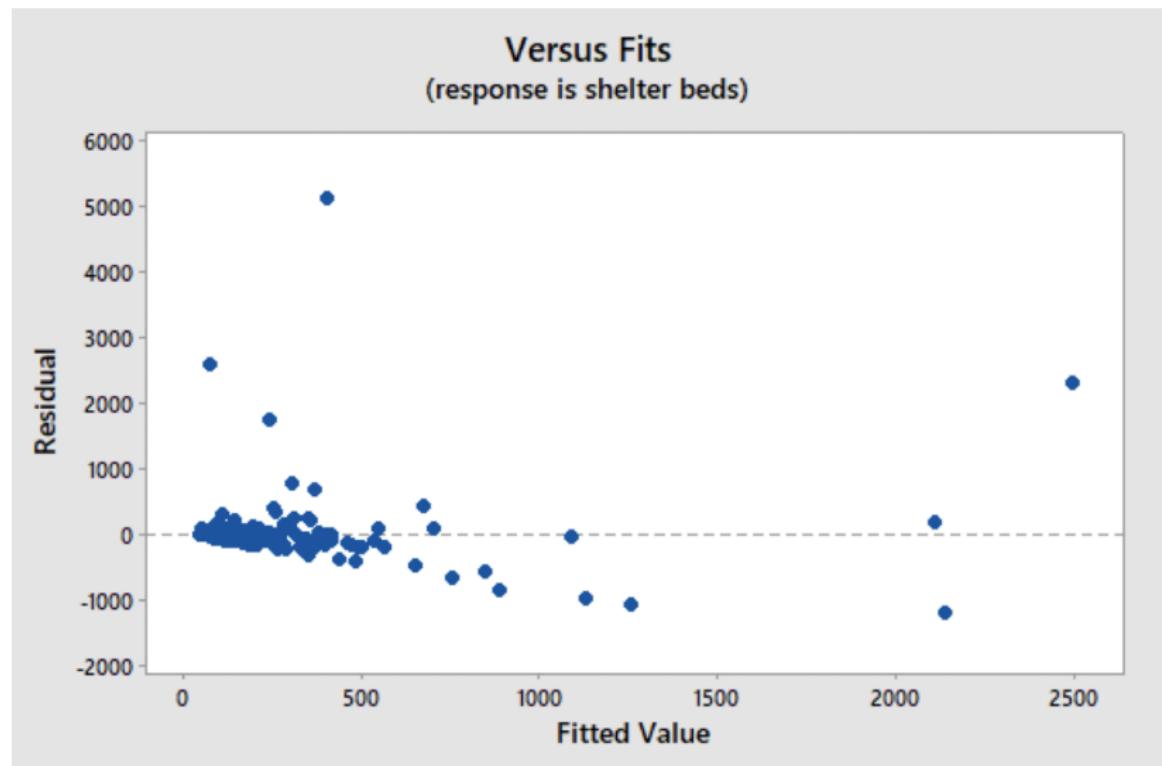
Regression Equation:

$$\text{ShelterBeds} = 42.5 + 0.5256 \text{ HomelessPop}$$

R-Squared(adjusted): 25.52 %

- ▶ Top right blue dot: At the Zip code 90013 with 4652 homeless and it also have 4800 beds
- ▶ Bottom right blue dot: At the Zip code 90021 with 3973 homeless but it has only 995 beds
- ▶ Dot closed to the regression line: At 90014 with 3918 homeless and has 2253 beds
- ▶ Top left blue dot: At Zip code 90057 with only 676 homeless but it has 5536 beds, so it has 4860 beds available.

Scatterplot of Residuals



This graph is important because it shows that there could be a missing variable in our analysis that we didn't consider.

◀ ▶ ⏪ ⏩

Why Homeless Aren't Staying in Shelters Beds

- ▶ When the shelter is full, there is no system in place to find an open bed somewhere else
- ▶ Many homeless try out shelters, however, prefer to sleep in the street due to freedom of a tent rather the confinement of a shelter
- ▶ Dirty, unsanitary conditions
- ▶ Staff is ill-equipped to handle violence in shelters

Sources

1. Canvas Datasets:

- ▶ Crime data from 2010 to present:
<https://data.lacity.org/A-Safe-City/Crime-Data-from-2010-to-Present/y8tr-7khq>
- ▶ DCFS Accumulated referrals
<https://data.lacounty.gov/Children-and-Family/DCFS-Accumulated-Referrals/7gi8-qjet>

2. Homeless count by Tracts numbers:

- ▶ The Greater Los Angeles Homeless Count :
<https://www.lahsa.org/homeless-count/>
- ▶ 2017 Housing Inventory
Count:<https://www.lahsa.org/documents?id=1505-2017-housing-inventory-count.xlsx>

3. Match Tact to zipcode: HUD USPS ZIP Code Crosswalk

Files: https://www.huduser.gov/portal/datasets/usps_crosswalk.html

4. Article used: Palta, Rina. "There Are Empty Beds. Here's What's Keeping Homeless People Out Of LA County Shelters":http://www.laist.com/2018/07/05/there_are_empty_beds_heres_what_s_keeping_homeless_peop