PIT 2022

Astrid Yu

## 2022-09-25

目录

1 Percentages for discrete varibles

the observed percentage and the projected percentage over three years are from people who answered the question about duration of homelessness.

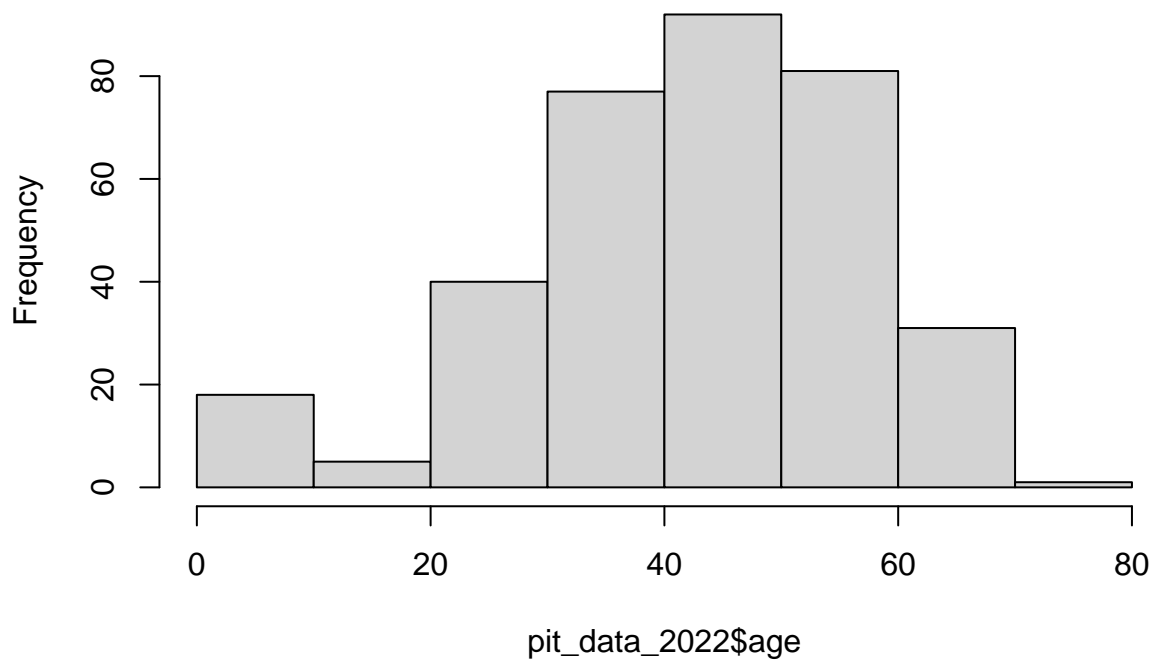|	Observed %	Projected %
Male	71.98697	76.55303
Race: African American	22.8013	23.43837
Race: White	68.07818	68.09565
Race: All other	5.211726	6.59496
Ethnicity: Hispanic/Latino	6.188925	0.76177
With any family or non-family members staying with you	19.64286	20.14803
With pet(s)	20.07435	17.44555
With either someone else or pets (this is union of last two)	31.48148	27.30444
First time homeless	44.95114	60.09261
Times homeless in last three years = 1	19.86971	11.55644
Times homeless = 2	11.07492	10.44033
Times homeless = 3	5.863192	3.578739
Times homeless = 4 or more	18.24104	14.33187
Stayed at any shelter	45.27687	46.11449
Had Covid	15.96091	13.6819
Physical disability	37.9085	29.60927
Serious mental illness	46.40523	43.23782
Substance use disorder	36.9281	27.82415
HIV/AIDS	0.9803922	0.4958739
Any disability	75.2443	31.928
Meets chronic definition	56.35179	29.78661
Homeless because of violence	10.78431	9.337224
SSI/SSDI income	17.97386	16.81152
Interested in housing if needs met	95.42484	97.25125
Military veteran	9.150327	7.807334

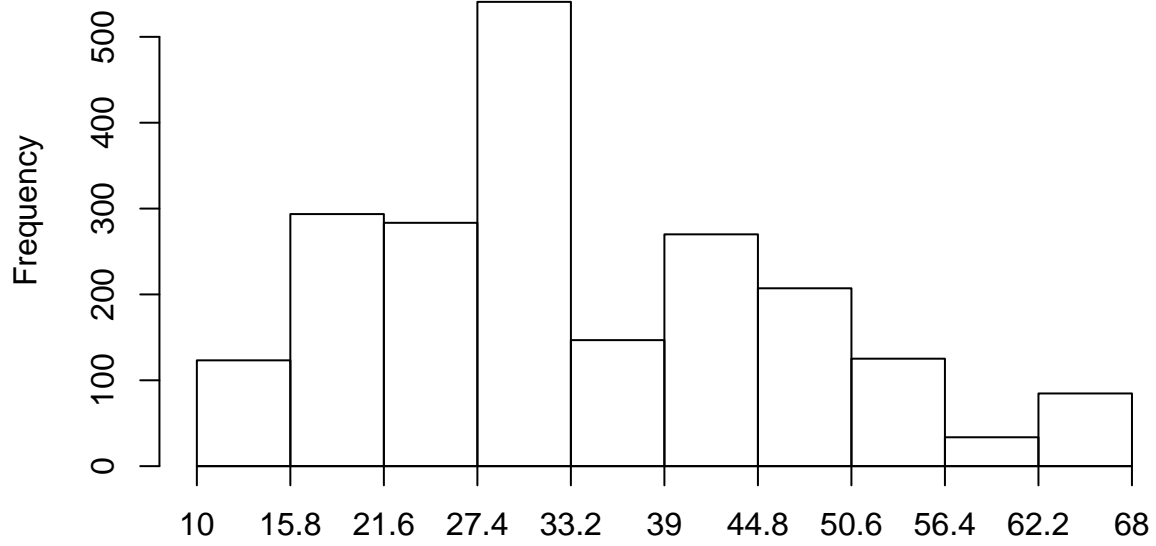|	Observed		Projected	
	mean	sd	mean	sd
Age	42.40870	15.54900	41.22022	12.80179
Age at first homelessness	34.57187	13.18025	33.86593	13.43090
# months homeless (top code at 36)	25.00814	12.60605	10.30554	12.46212

2 Distributions and Graphs for continuous variables
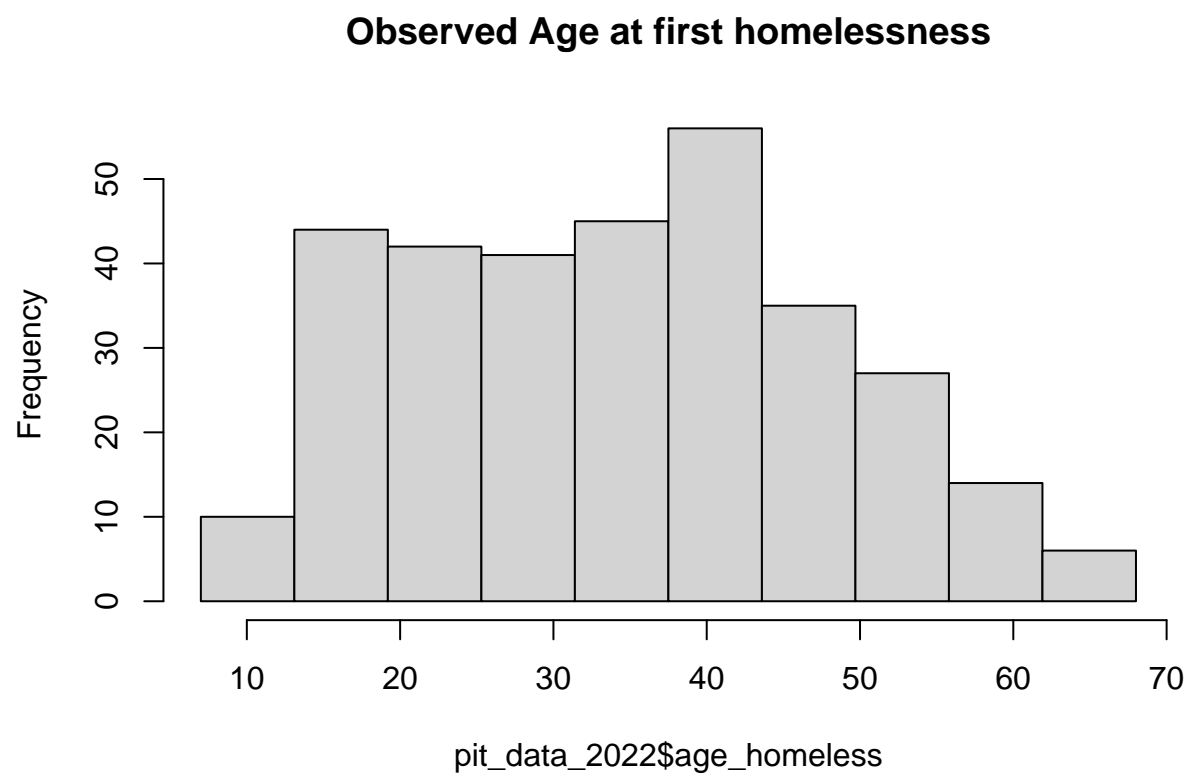
Projected Distribution: Age
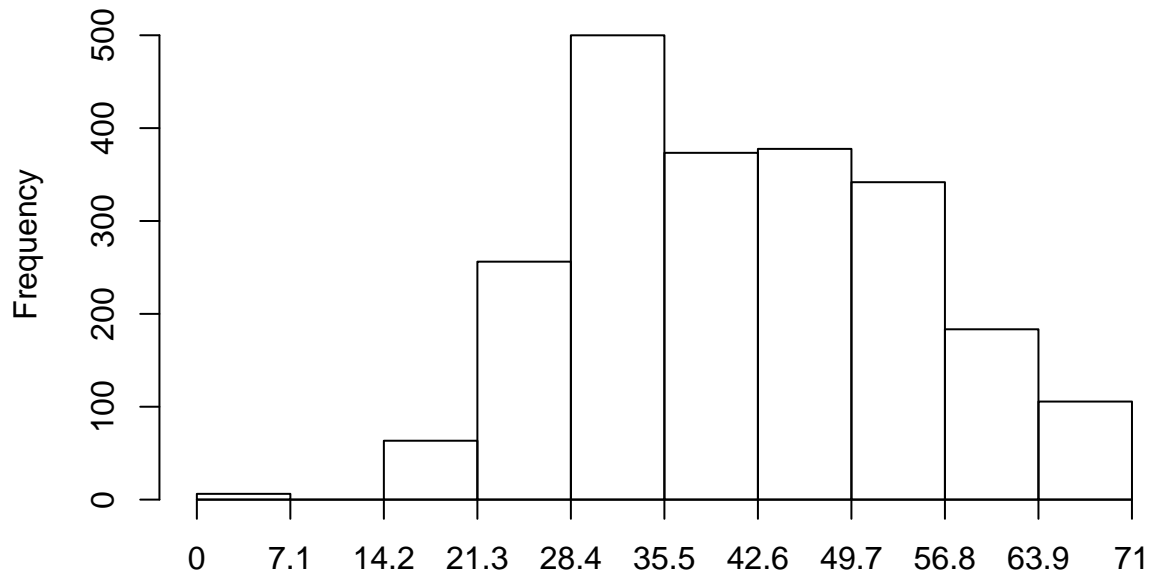
Observed Distribution: Age

pit_data_2022$age

Projected Age at first homelessness

Observed Age at first homelessness

The paired graphs above have the same break for each bar.

Observed Distribution

Projected Distribution
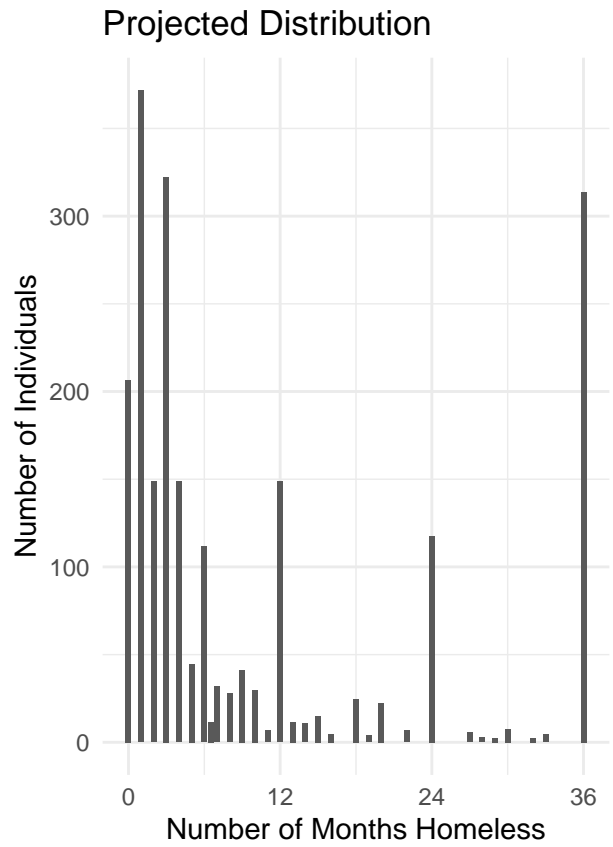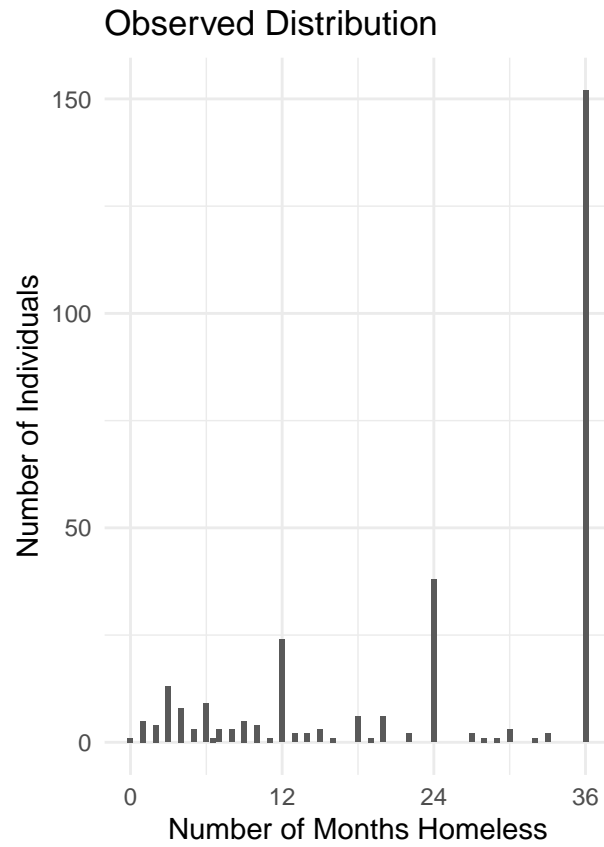
3   Number of people observed and projected

Observed Estimate	Count with Complete Data	Projected Total Estimate
634	307	2208

4 Crosstables for the observed data

For the crosstables, I used the original data (inlcuding all participants, answering or not answering the questions)

4.1 Stayed at any shelter by with someone

```
##
##
##    Cell Contents
## |-------------------------|
## |                       N |
## |         N / Table Total |
## |-------------------------|
##
##
## Total Observations in Table:  313
##
##
##                    | pit_data_2022$hoh_tonight
## pit_data_2022$shelter |      Self |     Other |   Missing | Row Total |
## ---------------------|-----------|-----------|-----------|-----------|
##              No Use |       124 |        37 |         0 |       161 |
##                     |     0.396 |     0.118 |     0.000 |           |
## ---------------------|-----------|-----------|-----------|-----------|
##                 Use |       120 |        19 |         0 |       139 |
##                     |     0.383 |     0.061 |     0.000 |           |
## ---------------------|-----------|-----------|-----------|-----------|
##             Missing |         6 |         3 |         4 |        13 |
##                     |     0.019 |     0.010 |     0.013 |           |
## ---------------------|-----------|-----------|-----------|-----------|
##        Column Total |       250 |        59 |         4 |       313 |
## ---------------------|-----------|-----------|-----------|-----------|
##
##
## Statistics for All Table Factors
##
##
## Pearson's Chi-squared test
```

```
## ----------------------------------------------------------
## Chi^2 =  98.60866     d.f. =  4     p =  1.945396e-20
##
##
##
```

4.2 Stayed at any shelter by with someone or with a pet

```
##
##
##    Cell Contents
## |-----------------------|
## |                     N |
## |         N / Table Total |
## |-----------------------|
##
##
## Total Observations in Table:  301
##
##
##                         | pit_data_2022$with_others
## pit_data_2022$shelter |          Self | With someone/pet(s) |          Row Total |
## --------------------|--------------------|--------------------|--------------------|
##            No Use |               100 |                 55 |                155 |
##                   |             0.332 |              0.183 |                    |
## --------------------|--------------------|--------------------|--------------------|
##               Use |               101 |                 32 |                133 |
##                   |             0.336 |              0.106 |                    |
## --------------------|--------------------|--------------------|--------------------|
##           Missing |                10 |                  3 |                 13 |
##                   |             0.033 |              0.010 |                    |
## --------------------|--------------------|--------------------|--------------------|
##        Column Total |               211 |                 90 |                301 |
## --------------------|--------------------|--------------------|--------------------|
##
##
## Statistics for All Table Factors
##
##
## Pearson's Chi-squared test
## ------------------------------------------------------------
## Chi^2 =  4.758513     d.f. =  2     p =  0.09261943
##
##
##
```

4.3 Stayed at any shelter by meets chronic definition

```
##
##
##    Cell Contents
## |-----------------------|
## |                     N |
## | Chi-square contribution |
## |           N / Row Total |
## |           N / Col Total |
## |         N / Table Total |
## |-----------------------|
##
##
## Total Observations in Table:  345
##
##
##                      | pit_data_2022$CHRONIC
## pit_data_2022$shelter |               No | CHRONIC HOMELSSNESS |           Row Total |
## ---------------------|--------------------|--------------------|--------------------|
##              No Use |               88 |                 93 |                 181 |
##                     |            0.024 |              0.022 |                     |
##                     |            0.486 |              0.514 |               0.525 |
##                     |            0.533 |              0.517 |                     |
##                     |            0.255 |              0.270 |                     |
## ---------------------|--------------------|--------------------|--------------------|
##                 Use |               60 |                 87 |                 147 |
##                     |            1.510 |              1.384 |                     |
##                     |            0.408 |              0.592 |               0.426 |
##                     |            0.364 |              0.483 |                     |
##                     |            0.174 |              0.252 |                     |
## ---------------------|--------------------|--------------------|--------------------|
##             Missing |               17 |                  0 |                  17 |
##                     |            9.676 |              8.870 |                     |
##                     |            1.000 |              0.000 |               0.049 |
##                     |            0.103 |              0.000 |                     |
##                     |            0.049 |              0.000 |                     |
## ---------------------|--------------------|--------------------|--------------------|
##        Column Total |              165 |                180 |                 345 |
##                     |            0.478 |              0.522 |                     |
```

```
## --------------------|--------------------|--------------------|--------------------|
## 
## 
```

4.4 Stayed at any shelter by race (white non-hispanic vs. all other)

```
##
##
##    Cell Contents
## |-------------------------|
## |                       N |
## |         N / Table Total |
## |-------------------------|
##
##
## Total Observations in Table:  345
##
##
##                           | pit_data_2022$white_nonhispanic
## pit_data_2022$shelter |             No | White and Non-His/Lat |           Row Total |
## --------------------|-----------------|-----------------------|--------------------|
##            No Use |             52 |                   129 |                 181 |
##                   |          0.151 |                 0.374 |                     |
## --------------------|-----------------|-----------------------|--------------------|
##               Use |             61 |                    86 |                 147 |
##                   |          0.177 |                 0.249 |                     |
## --------------------|-----------------|-----------------------|--------------------|
##            Missing |             14 |                     3 |                  17 |
##                   |          0.041 |                 0.009 |                     |
## --------------------|-----------------|-----------------------|--------------------|
##        Column Total |            127 |                   218 |                 345 |
## --------------------|-----------------|-----------------------|--------------------|
##
##
## Statistics for All Table Factors
##
##
## Pearson's Chi-squared test
## ------------------------------------------------------------
## Chi^2 =  21.6281     d.f. =  2     p =  2.011489e-05
##
##
##
```

4.5 Stayed at any shelter by homeless due to violence

```
##
##
##    Cell Contents
## |-------------------------|
## |                       N |
## |           N / Table Total |
## |-------------------------|
##
##
## Total Observations in Table:  327
##
##
##                     | pit_data_2022$violence
## pit_data_2022$shelter |        No |       Yes |        DK |   Missing | Row Total |
## ---------------------|-----------|-----------|-----------|-----------|-----------|
##              No Use |       158 |        18 |         1 |         2 |       179 |
##                     |     0.483 |     0.055 |     0.003 |     0.006 |           |
## ---------------------|-----------|-----------|-----------|-----------|-----------|
##                 Use |       125 |        20 |         1 |         0 |       146 |
##                     |     0.382 |     0.061 |     0.003 |     0.000 |           |
## ---------------------|-----------|-----------|-----------|-----------|-----------|
##             Missing |         0 |         1 |         0 |         1 |         2 |
##                     |     0.000 |     0.003 |     0.000 |     0.003 |           |
## ---------------------|-----------|-----------|-----------|-----------|-----------|
##         Column Total |       283 |        39 |         2 |         3 |       327 |
## ---------------------|-----------|-----------|-----------|-----------|-----------|
##
##
## Statistics for All Table Factors
##
##
## Pearson's Chi-squared test
## ------------------------------------------------------------
## Chi^2 =  59.11638     d.f. =  6     p =  6.803494e-11
##
##
##
```

4.6 Homeless due to violence by gender (use all the categories)

```
## 
## 
##    Cell Contents
## |-----------------------|
## |                     N |
## |       N / Table Total |
## |-----------------------|
## 
## 
## Total Observations in Table:  327
## 
## 
##                       | pit_data_2022$violence
## pit_data_2022$GENDER  |        No |       Yes |        DK |   Missing | Row Total |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##                     |         1 |         0 |         0 |         0 |         1 |
##                     |     0.003 |     0.000 |     0.000 |     0.000 |           |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##   Data Not Collected |         0 |         0 |         0 |         1 |         1 |
##                     |     0.000 |     0.000 |     0.000 |     0.003 |           |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##               Female |        67 |        24 |         0 |         0 |        91 |
##                     |     0.205 |     0.073 |     0.000 |     0.000 |           |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##                 Male |       214 |        15 |         2 |         2 |       233 |
##                     |     0.654 |     0.046 |     0.006 |     0.006 |           |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##          Transgender |         1 |         0 |         0 |         0 |         1 |
##                     |     0.003 |     0.000 |     0.000 |     0.000 |           |
## --------------------|-----------|-----------|-----------|-----------|-----------|
##         Column Total |       283 |        39 |         2 |         3 |       327 |
## --------------------|-----------|-----------|-----------|-----------|-----------|
## 
## 
```

4.7 Homeless due to violence by gender dichotomy (male vs. all others)

```
##
##
##    Cell Contents
## |-------------------------|
## |                       N |
## |         N / Table Total |
## |-------------------------|
##
##
## Total Observations in Table:  327
##
##
##                         | pit_data_2022$male
## pit_data_2022$violence |     Male |  Not Male | Row Total |
## ----------------------|-----------|-----------|-----------|
##                    No |       69 |      214 |      283 |
##                       |    0.211 |    0.654 |          |
## ----------------------|-----------|-----------|-----------|
##                   Yes |       24 |       15 |       39 |
##                       |    0.073 |    0.046 |          |
## ----------------------|-----------|-----------|-----------|
##                    DK |        0 |        2 |        2 |
##                       |    0.000 |    0.006 |          |
## ----------------------|-----------|-----------|-----------|
##               Missing |        1 |        2 |        3 |
##                       |    0.003 |    0.006 |          |
## ----------------------|-----------|-----------|-----------|
##          Column Total |       94 |      233 |      327 |
## ----------------------|-----------|-----------|-----------|
##
##
## Statistics for All Table Factors
##
##
## Pearson's Chi-squared test
## ------------------------------------------------------------
## Chi^2 =  23.94444     d.f. =  3     p =  2.565617e-05
##
```

##
##