A look into Homelessness Data in America (Final Project Step2)

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Importing and Cleasing of Data

The different datasets gathered for Homeless data analysis were downloaded in excel (xlxs) and csv format. The following steps were applied to the data sources:

2021 AHAR: Part 1 - PIT Estimates of Homelessness in the U.S. 2007-2021-PIT-Counts-by-State

- The structure of the spreadsheet have Point In Time homeless information for each year separated in every excel sheet
- I have created a loop that will read through each Sheet (years) that I'm interested (2017-2022). Each Iteration will append to the new dataframe for PIT Homeless information
- Part of the loop is identifying the year where I created a constant variable of 'year'. The value is assigned is based from the excel sheet where the data is extracted from.

```
## Set the working directory to the root of your DSC 520 directory
setwd("C:/Users/janin/OneDrive/Documents/R_repo/dsc520/")

## Load the `PIT by State 2015-2022

# Using For loop, read sheet for year I wanted to extract.
pit_year <- c("2020","2019","2018","2017")

pit_homeless_df <- data.frame()
for (year in pit_year)
{
    # df_name <- paste("pit", year, "_df", sep = "")
    temp<- read_excel("data/homelessdata/2007-2021-PIT-Counts-by-State.xlsx", sheet =year )
    temp["year"] <- year
    # assign(x=df_name, value=temp) #data frame created for every PIT year
    #rm(temp)
    pit_homeless_df <- rbind(pit_homeless_df, temp)
    rm(temp) #Clean-up
}
head (pit_homeless_df)</pre>
```

```
## 2 AL
                        8
                                         3351
                                                          528
                                                                              198
## 3 AR.
                         4
                                         2366
                                                          195
                                                                              258
## 4 AS
                         0
                                           NΑ
                                                           NA
                                                                              NΑ
                        3
## 5 AZ
                                        10979
                                                         1722
                                                                             824
## 6 CA
                        44
                                       161548
                                                        16141
## # ... with 537 more variables: Total Over 24 <dbl>, Total Female <dbl>,
       Total Male <dbl>, Total Transgender <dbl>, Total GenderNonConform <dbl>,
       Total_NonHisp <dbl>, Total_Hisp <dbl>, Total_White <dbl>,
## #
## #
       Total_AfricanAmerican <dbl>, Total_Asian <dbl>, Total_AmericanIndian <dbl>,
       Total_Hawaiian <dbl>, Total_Multiple_Races <dbl>, S_ES_ <dbl>,
## #
## #
       S_ES_Under_18 <dbl>, S_ES_Age_18_to_24 <dbl>, S_ES_Over_24 <dbl>,
       S_ES_Female <dbl>, S_ES_Male <dbl>, S_ES_Transgender <dbl>, ...
## #
```

The accompanying Housing Inventory Count (HIC) data 2007-2021-HIC-Counts-by-State

- Similar with the PIT information. The structure of the spreadsheet have HIC data information for each year separated in every sheet
- I have created a loop that will read through each Sheet (years) that I'm interested (2017-2022). Each Iteration will append to the new dataframe for HIC Homeless information
- Part of the loop is identifying the year where I created a constant variable of 'year'. The value is assigned is based from the excel sheet where the data is extracted from.

```
## Set the working directory to the root of your DSC 520 directory
setwd("C:/Users/janin/OneDrive/Documents/R repo/dsc520/")
hic_year <- c("2020","2019","2018","2017")
hic_homeless_df <- data.frame()</pre>
for (year in hic_year)
  temp<- read_excel("data/homelessdata/2007-2021-HIC-Counts-by-State.xlsx", sheet =year, skip=1)
  temp["year"] <- year</pre>
  hic_homeless_df <- rbind(hic_homeless_df,temp)</pre>
  rm(temp) #Clean-up
head (hic homeless df)
## # A tibble: 6 x 78
##
     State TOTAL_YEAR_BED 'Total Non-DV Year-Ro~' 'Total HMIS Ye~' 'HMIS Particip~'
##
     <chr>>
                     <dbl>
                                              <dbl>
                                                                <dbl>
                                                                                  <dbl>
## 1 AK
                      1885
                                               1347
                                                                                  0.595
                                                                 1122
## 2 AL
                      2913
                                               2291
                                                                 1659
                                                                                  0.570
## 3 AR.
                                                                                  0.403
                      1686
                                               1193
                                                                  680
## 4 AZ
                      6079
                                               4943
                                                                 4352
                                                                                  0.716
## 5 CA
                     53265
                                                                35666
                                              48649
                                                                                  0.670
## 6 CO
                      8274
                                               7693
                                                                 4460
                                                                                  0.539
## # ... with 73 more variables: TOTAL_YEAR_BED_ES <dbl>, TOTAL_YEAR_BED_TH <dbl>,
       TOTAL YEAR BED SH <dbl>,
       'Total Units for Households with Children (ES, TH, SH)' <dbl>,
## #
       'Total Beds for Households with Children (ES, TH, SH)' <dbl>,
## #
## #
       'Total Beds for Households without Children (ES, TH, SH)' <dbl>,
       'Total Beds for Households with only Children (ES, TH, SH)' <dbl>,
       'Dedicated Veteran Beds (ES, TH, SH)' <dbl>, ...
## #
```

- ** Merging HUD Exchange Data Because of Similarity of data structure where data is by State and year. I have merged the information to have one raw HUD dataset (homeless_df) with data elements from:
 - 1. 2021 AHAR: Part 1 PIT Estimates of Homelessness in the U.S. 2007-2021-PIT-Counts-by-State
 - 2. The accompanying Housing Inventory Count (HIC) data 2007-2021-HIC-Counts-by-State

This raw data includes PIT and HIC information from HUD exchange for a State and Year (The scope is 2017-2020 for this research)

homeless_df <- merge(pit_homeless_df, hic_homeless_df , by=c("year", "State"))

```
homeless df %>% select(State, year, Number_of_CoCs, Total_PIT_Homeless, Total_Age_18_to_24, Total_Under_18
                         Total_Transgender, Total_GenderNonConform, Total_NonHisp, Total_White, Total_Asian,
                         ,Total_AmericanIndian,S_ES_Multiple_Races,TOTAL_YEAR_BED, TOTAL_YEAR_BED_ES, TOT.
head (homeless_df)
##
     State year Number_of_CoCs Total_PIT_Homeless Total_Age_18_to_24
        AK 2017
## 1
                                                                       186
## 2
        AL 2017
                               8
                                                 3793
                                                                       300
                               6
## 3
        AR 2017
                                                 2467
                                                                       209
        AZ 2017
                               3
## 4
                                                 8947
                                                                       660
        CA 2017
## 5
                              43
                                               131532
                                                                     13276
## 6
        CO 2017
                               3
                                                10940
                                                                       913
##
     Total_Under_18 Total_Over_24 Total_Female Total_Male Total_Transgender
## 1
                 305
                               1354
                                               765
                                                          1075
## 2
                 528
                               2965
                                              1314
                                                          2453
                                                                                21
## 3
                 265
                               1993
                                               965
                                                          1499
                                                                                 3
## 4
                1607
                               6680
                                              3331
                                                          5592
                                                                                22
## 5
               14207
                             104049
                                             42750
                                                        87609
                                                                               793
## 6
                2164
                               7863
                                              4014
                                                          6866
                                                                                37
     Total_GenderNonConform Total_NonHisp Total_White Total_Asian Total_Hawaiian
##
## 1
                                        1743
                                                                     20
                                                                                     69
                            1
                                                      641
## 2
                            5
                                        3721
                                                     1587
                                                                      9
                                                                                      1
## 3
                            0
                                                                      9
                                                                                      7
                                        2405
                                                     1447
## 4
                            2
                                        6876
                                                     6086
                                                                     51
                                                                                     46
## 5
                          380
                                       90040
                                                    68784
                                                                   2490
                                                                                   1459
## 6
                           23
                                        8142
                                                     7778
                                                                     51
                                                                                     45
##
     Total_AfricanAmerican Total_AmericanIndian S_ES_Multiple_Races TOTAL_YEAR_BED
## 1
                         147
                                                770
                                                                       94
                                                                                     1828
## 2
                        2064
                                                 21
                                                                       56
                                                                                     3444
## 3
                         892
                                                 24
                                                                       40
                                                                                     2062
## 4
                        1611
                                                704
                                                                      166
                                                                                     5880
## 5
                       42282
                                               5663
                                                                     2135
                                                                                    44473
## 6
                        1788
                                                546
                                                                      279
                                                                                     7071
##
     TOTAL_YEAR_BED_ES TOTAL_YEAR_BED_TH TOTAL_YEAR_BED_SH
## 1
                   1130
                                        698
                                                              0
                                       1334
                                                             37
## 2
                   2073
## 3
                   1513
                                        549
                                                              0
## 4
                   3866
                                       1978
                                                             36
## 5
                  24799
                                      19537
                                                            137
```

6

USA FACTS https://usafacts.org/ This website includes public statistic information collected by multiple agencies including US Census and for this analysis, I have gathered the following for the year 2017 -2020 (when available):

- 1. US Population by State
- 2. Employment by State
- 3. Poverty by State
- 4. Percent of Adult with Depression by State
- 5. Violence and Crime Rate by State
- I have created a loop that will read through each csv file and will capture the yearly information in column
- Part of the loop is identifying the year where I created a constant variable of 'year'. The value is assigned is based from the "COLUMN" where the data is is extracted from.
- While going to each file, the process append to a dataframe usfacts_df to merge all information coming from USFACTS source

```
# Data from USFACTS

# Read US Population
## Set the working directory to the root of your DSC 520 directory
setwd("C:/Users/janin/OneDrive/Documents/R_repo/dsc520/")

us_pop_df<- read.csv("data/homelessdata/USPOPULATION.csv")
colnames(us_pop_df)</pre>
```

| ## | [1] | "State.Name" | "State" | "X1900" | "X1901" | "X1902" |
|----|-------|--------------|---------|---------|---------|---------|
| ## | [6] | "X1903" | "X1904" | "X1905" | "X1906" | "X1907" |
| ## | [11] | "X1908" | "X1909" | "X1910" | "X1911" | "X1912" |
| ## | [16] | "X1913" | "X1914" | "X1915" | "X1916" | "X1917" |
| ## | [21] | "X1918" | "X1919" | "X1920" | "X1921" | "X1922" |
| ## | [26] | "X1923" | "X1924" | "X1925" | "X1926" | "X1927" |
| ## | [31] | "X1928" | "X1929" | "X1930" | "X1931" | "X1932" |
| ## | [36] | "X1933" | "X1934" | "X1935" | "X1936" | "X1937" |
| ## | [41] | "X1938" | "X1939" | "X1940" | "X1941" | "X1942" |
| ## | [46] | "X1943" | "X1944" | "X1945" | "X1946" | "X1947" |
| ## | [51] | "X1948" | "X1949" | "X1950" | "X1951" | "X1952" |
| ## | [56] | "X1953" | "X1954" | "X1955" | "X1956" | "X1957" |
| ## | [61] | "X1958" | "X1959" | "X1960" | "X1961" | "X1962" |
| ## | [66] | "X1963" | "X1964" | "X1965" | "X1966" | "X1967" |
| ## | [71] | "X1968" | "X1969" | "X1970" | "X1971" | "X1972" |
| ## | [76] | "X1973" | "X1974" | "X1975" | "X1976" | "X1977" |
| ## | [81] | "X1978" | "X1979" | "X1980" | "X1981" | "X1982" |
| ## | [86] | "X1983" | "X1984" | "X1985" | "X1986" | "X1987" |
| ## | [91] | "X1988" | "X1989" | "X1990" | "X1991" | "X1992" |
| ## | [96] | "X1993" | "X1994" | "X1995" | "X1996" | "X1997" |
| ## | [101] | "X1998" | "X1999" | "X2000" | "X2001" | "X2002" |
| ## | [106] | "X2003" | "X2004" | "X2005" | "X2006" | "X2007" |
| ## | [111] | "X2008" | "X2009" | "X2010" | "X2011" | "X2012" |
| ## | [116] | "X2013" | "X2014" | "X2015" | "X2016" | "X2017" |
| ## | [121] | "X2018" | "X2019" | "X2020" | "X2021" | |

```
uspop_year <- c("2020","2019","2018","2017")
us_pop_year_df <- data.frame()</pre>
for (year in uspop_year)
  colyear <- paste("X",year,sep = "")</pre>
  us pop df %>% select (State, colyear) -> temp
  temp["year"] <- year</pre>
  names(temp) <-c("State", "Population", "year")</pre>
  us_pop_year_df <- rbind(us_pop_year_df,temp)</pre>
}
## Note: Using an external vector in selections is ambiguous.
## i Use 'all_of(colyear)' instead of 'colyear' to silence this message.
## i See <a href="https://tidyselect.r-lib.org/reference/faq-external-vector.html">https://tidyselect.r-lib.org/reference/faq-external-vector.html>.
## This message is displayed once per session.
head(us_pop_year_df)
##
   State Population year
## 1 AL 4921532 2020
## 2 AK 731158 2020
## 3 AZ 7421401 2020
## 4 AR 3030522 2020
     CA 39368078 2020
## 5
        CO 5807719 2020
## 6
rm(us_pop_df) #Cleanup raw data
# Employment US Facts per state
us_emp_df<- read.csv("data/homelessdata/employment_usafacts.csv")</pre>
#uspop_year <- c("2020","2019","2018","2017")
us_emp_year_df <- data.frame()</pre>
for (year in uspop_year)
{
  colyear <- paste("X",year,sep = "")</pre>
  us_emp_df %>% select (State, colyear) -> temp
 temp["year"] <- year</pre>
 head(temp)
 names(temp) <-c("State", "Employment", "year")</pre>
  us_emp_year_df <- rbind(us_emp_year_df,temp)</pre>
}
tail(us_emp_year_df)
##
       State Employment year
## 203
        VT
                315100 2017
          VA 3958700 2017
## 204
```

```
## 205
               3321100 2017
          WA
## 206
          WV
                715500 2017
## 207
          WI 2948200 2017
## 208
                283600 2017
          WY
rm(us_emp_df) #Cleanup Raw Data
# Merge Variables USFACTS
usfacts_df <- merge(us_pop_year_df,us_emp_year_df, by =c("year", "State"))
# poverty US Facts per state
us_poverty_df<- read.csv("data/homelessdata/people_in_poverty_usafacts.csv")</pre>
us_poverty_year_df <- data.frame()</pre>
for (year in uspop_year)
  colyear <- paste("X",year,sep = "")</pre>
  us_poverty_df %>% select (State, colyear) -> temp
  temp["year"] <- year</pre>
 head(temp)
  names(temp) <-c("State", "Poverty", "year")</pre>
  us_poverty_year_df <- rbind(us_poverty_year_df,temp)</pre>
tail(us_poverty_year_df)
##
       State Poverty year
## 199
         VT
              53000 2017
## 200
          VA 862000 2017
## 201
         WA 810000 2017
## 202
        WV 306000 2017
## 203
         WI 537000 2017
## 204
          WY
              73000 2017
rm(us_poverty_df) #clean up raw data
usfacts_df <- merge(usfacts_df,us_poverty_year_df, by =c("year", "State"))</pre>
# Depression
us_meddepresspct_df<- read.csv("data/homelessdata/percent_of_adults_with_depression_usafacts.csv")</pre>
us_meddepresspct_year_df <- data.frame()</pre>
for (year in uspop_year)
  colyear <- paste("X",year,sep = "")</pre>
  us_meddepresspct_df %>% select (State, colyear) -> temp
  temp["year"] <- year</pre>
  head(temp)
```

```
names(temp) <-c("State", "DepressPCT", "year")</pre>
  us_meddepresspct_year_df <- rbind(us_meddepresspct_year_df,temp)</pre>
}
tail(us_meddepresspct_year_df)
##
       State DepressPCT year
## 203
          VT
                  0.252 2017
## 204
                  0.190 2017
          VA
## 205
          WA
                  0.232 2017
                  0.260 2017
## 206
          WV
## 207
          WI
                  0.188 2017
                  0.213 2017
## 208
          WY
rm (us_meddepresspct_df) #clean-up raw data
usfacts_df <- merge(usfacts_df,us_meddepresspct_year_df, by =c("year", "State"))
# Violence and Crime
us_violencecrime_df<- read.csv("data/homelessdata/violent_crimes_usafacts.csv")</pre>
colnames(us_violencecrime_df)
## [1] "Statename" "State"
                                 "X1979"
                                             "X1980"
                                                          "X1981"
                                                                      "X1982"
## [7] "X1983"
                    "X1984"
                                "X1985"
                                             "X1986"
                                                          "X1987"
                                                                      "X1988"
## [13] "X1989"
                    "X1990"
                                 "X1991"
                                             "X1992"
                                                          "X1993"
                                                                      "X1994"
## [19] "X1995"
                    "X1996"
                                 "X1997"
                                             "X1998"
                                                          "X1999"
                                                                      "X2000"
## [25] "X2001"
                    "X2002"
                                 "X2003"
                                             "X2004"
                                                          "X2005"
                                                                      "X2006"
## [31] "X2007"
                    "X2008"
                                 "X2009"
                                             "X2010"
                                                          "X2011"
                                                                      "X2012"
## [37] "X2013"
                    "X2014"
                                 "X2015"
                                             "X2016"
                                                          "X2017"
                                                                      "X2018"
## [43] "X2019"
                    "X2020"
us_violencecrime_year_df <- data.frame()</pre>
for (year in uspop_year)
{
  colyear <- paste("X",year,sep = "")</pre>
  us_violencecrime_df %>% select (State, colyear) -> temp
  temp["year"] <- year</pre>
  head(temp)
  names(temp) <-c("State", "CrimeViolence", "year")</pre>
  us_violencecrime_year_df <- rbind(us_violencecrime_year_df,temp)</pre>
  rm(temp)
}
head(us_violencecrime_year_df)
##
     State CrimeViolence year
## 1
        AL 22322 2020
## 2
        AK
                   6126 2020
```

FAIR MARKET RENTS (40TH PERCENTILE RENTS) https://www.huduser.gov/portal/datasets/fmr.html This dataset contains Fair Market Rents (FMRs) for each state.

- I have extracted the excel spreadsheet per state and created a loop to read data for each yearly spreadsheet.
- I created a constant variable year and assign a value based on the file the data came from.
- While going to each file, the process append the dataset to usfacts_df to merge this information with the USFACTS dataframe

```
# Mean housing
setwd("C:/Users/janin/OneDrive/Documents/R_repo/dsc520/")
pop_year <- c("2020","2019","2018","2017")</pre>
houserent_mean_year <- data.frame()</pre>
for (year in pop_year)
{
  excel_name <- paste("data/homelessdata/FY",year,"_50_County_rev.xlsx", sep = "")</pre>
  print(excel_name)
  temp<- read_excel(excel_name)</pre>
  temp["year"] <- year</pre>
  temp %>% select(rent50_1, rent50_2,rent50_3,rent50_4, state_alpha, year) -> temp1
  names(temp1) <-c("rent50_1", "rent50_2", "rent50_3", "rent50_4", "State", "year")
  houserent_mean_year <- rbind(houserent_mean_year,temp1)</pre>
  rm(temp) #Clean-up
  rm(temp1) #Clean-up
}
## [1] "data/homelessdata/FY2020 50 County rev.xlsx"
## [1] "data/homelessdata/FY2019 50 County rev.xlsx"
## [1] "data/homelessdata/FY2018_50_County_rev.xlsx"
## [1] "data/homelessdata/FY2017_50_County_rev.xlsx"
head(houserent_mean_year)
```

```
## # A tibble: 6 x 6
##
     rent50_1 rent50_2 rent50_3 rent50_4 State year
##
        <dbl>
                  <dbl>
                            <dbl>
                                     <dbl> <chr> <chr>
                    920
## 1
          699
                             1209
                                      1560 TX
                                                  2020
## 2
          699
                    920
                             1209
                                      1560 TX
                                                  2020
## 3
          699
                    920
                             1209
                                      1560 TX
                                                  2020
## 4
          397
                    452
                              591
                                       713 PR
                                                  2020
          397
                    452
                              591
                                       713 PR
                                                  2020
## 5
                              591
                                       713 PR
                                                  2020
## 6
          397
                    452
```

```
usfacts_df <- merge(usfacts_df,houserent_mean_year, by =c("year", "State"))</pre>
```

NOAA National Climatic Data Center of the United States This dataset contains current average temperature per state. This process reads the dataset and append to usfacts_df to merge this information with the USFACTS dataframe

```
# Extracted
setwd("C:/Users/janin/OneDrive/Documents/R repo/dsc520/")
state_ave_weather_df <- read_excel("data/homelessdata/average_weather_state.xlsx")</pre>
head(state_ave_weather_df)
## # A tibble: 6 x 5
     Statename State ave_f ave_c weather_rank
##
     <chr>>
                <chr> <dbl> <dbl>
                                          <dbl>
## 1 Alabama
                ΑL
                       62.8 17.1
                                              7
                       26.6 -3
                                             50
## 2 Alaska
                ΑK
## 3 Arizona
                ΑZ
                       60.3 15.7
                                             10
                                              9
                AR
                       60.4 15.8
## 4 Arkansas
## 5 California CA
                       59.4 15.2
                                             12
## 6 Colorado
                       45.1
                              7.3
                                             39
```

```
usfacts_df <- merge(usfacts_df,state_ave_weather_df, by =c("State"))</pre>
```

*** To create the Final data, I have merged the homeless_df with the HUD Exchange Information specific on homelessness and usafacts_df with state information that I believe can factor homelessness. Data is breakdown per State and Year.

- This information can be sliced to use Top state with homelessness or look at it in General population (all state)
- We can look at a specific year information within the period of 2017 2020
- I would like to look more on the homelessness demographic information but the challenge is that information is not available in public or may require permission to obtain which make sense because of the confidentiality of personal identifiable information. This limit this analysis and will not include identifying Person Risk factors to homelessness or being chronic homeless.

```
us_homeless_df <- merge(homeless_df, usfacts_df, by =c("year", "State"))
head(us_homeless_df, n=100)</pre>
```

```
year State Number_of_CoCs Total_PIT_Homeless Total_Age_18_to_24
##
## 1
       2017
                AK
                                  2
                                                    1845
## 2
       2017
                AK
                                  2
                                                    1845
                                                                          186
       2017
                                  2
## 3
                AK
                                                    1845
                                                                          186
## 4
       2017
                                  2
                                                    1845
                ΑK
                                                                          186
       2017
                                  2
## 5
                ΑK
                                                    1845
                                                                          186
## 6
       2017
                AK
                                  2
                                                    1845
                                                                          186
                                  2
## 7
       2017
                AK
                                                    1845
                                                                          186
## 8
       2017
                                  2
                                                    1845
                                                                          186
                ΑK
                                  2
## 9
       2017
                AK
                                                    1845
                                                                          186
```

| | 4.0 | 0047 | A 77 | • | 1015 | 400 |
|-----------------|-----|------|------|---|------|-----|
| ## | | 2017 | AK | 2 | 1845 | 186 |
| ## | 11 | 2017 | AK | 2 | 1845 | 186 |
| ## | 12 | 2017 | AK | 2 | 1845 | 186 |
| ## | 13 | 2017 | AK | 2 | 1845 | 186 |
| ## | 14 | 2017 | AK | 2 | 1845 | 186 |
| ## | 15 | 2017 | AK | 2 | 1845 | 186 |
| ## | 16 | 2017 | AK | 2 | 1845 | 186 |
| ## | 17 | 2017 | AK | 2 | 1845 | 186 |
| ## | 18 | 2017 | AK | 2 | 1845 | 186 |
| ## | 19 | 2017 | AK | 2 | 1845 | 186 |
| ## | 20 | 2017 | AK | 2 | 1845 | 186 |
| ## | 21 | 2017 | AK | 2 | 1845 | 186 |
| ## | 22 | 2017 | AK | 2 | 1845 | 186 |
| ## | 23 | 2017 | AK | 2 | 1845 | 186 |
| ## | 24 | 2017 | AK | 2 | 1845 | 186 |
| ## | 25 | 2017 | AK | 2 | 1845 | 186 |
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| ## | | Total U | | | Total Female | Total Male | Total_Transgender |
| ## | 1 | _ | 305 | 1354 | - 765 | 1075 | - 3 |
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| ## ## ## ## | 99 100 1 2 | 265 265 Total_GenderNonConform 1 | 1993 1993 Total_NonHisp 1743 1743 | 965 965 Total_White 641 641 | 1499 1499 Total_Asian 20 20 | 3 3 Total_Hawaiian 69 69 |
| ## ## ## ## | 99 100 1 2 3 | 265 265 Total_GenderNonConform 1 1 | 1993 1993 Total_NonHisp 1743 1743 | 965 965 Total_White 641 641 | 1499 1499 Total_Asian 20 20 20 | 3 3 Total_Hawaiian 69 69 |
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| ## ## ## ## ## ## | 99 100 1 2 3 4 5 6 7 8 | 265 265 Total_GenderNonConform 1 1 1 | 1993 1993 Total_NonHisp 1743 1743 1743 1743 1743 | 965 965 Total_White 641 641 641 641 641 | 1499 1499 Total_Asian 20 20 20 20 20 20 20 20 20 | 3 3 Total_Hawaiian 69 69 69 69 69 |
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| ## ## ## ## ## ## ## ## ## ## ## ## ## | 99 100 1 2 3 4 5 6 7 8 9 10 11 12 13 | 265 265 Total_GenderNonConform 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1993 1993 Total_NonHisp 1743 1743 1743 1743 1743 1743 1743 1743 | 965 965 Total_White 641 641 641 641 641 641 641 641 641 641 | 1499 1499 Total_Asian 20 20 20 20 20 20 20 20 20 20 20 20 20 | 3 3 Total_Hawaiian 69 69 69 69 69 69 69 69 69 |
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| ###################################### | 99 100 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | 265 265 Total_GenderNonConform 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1993 1993 Total_NonHisp 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 1743 | 965 965 Total_White 641 641 641 641 641 641 641 641 641 641 | 1499 1499 Total_Asian 20 20 20 20 20 20 20 20 20 20 20 20 20 | 3 3 Total_Hawaiian 69 69 69 69 69 69 69 69 69 69 |
| ######################## | 99 100 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | 265 265 Total_GenderNonConform 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1993 1993 Total_NonHisp 1743 1743 1743 1743 1743 1743 1743 1743 | 965 965 Total_White 641 641 641 641 641 641 641 641 | 1499 1499 Total_Asian 20 20 20 20 20 20 20 20 20 20 20 20 20 | 3 3 Total_Hawaiian 69 69 69 69 69 69 69 69 69 69 69 |
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| ## | 90 | 5 | 3721 | 1587 9 | |
| ## | 91 | 5 | 3721 | 1587 9 | |
| ## | 92 | 5 | 3721 | 1587 9 | |
| ## | 93 | 5 | 3721 | 1587 9 | |
| ## | 94 | 5 | 3721 | 1587 9 | |
| ## | 95 | 5 | 3721 | 1587 9 | |
| | 96 | 5 | 3721 | 1587 9 | |
| | 97 | 0 | 2405 | 1447 9 | |
| | 98 | 0 | 2405 | 1447 9 | |
| | 99 | 0 | 2405 | 1447 9 | |
| | 100 | 0 | 2405 | 1447 9 | |
| ## | | Total_AfricanAmerican T | | | |
| | 1 | 147 | 770 | 94 | |
| ## | | 147 | 770 | 94 | |
| ## | | 147 | 770 | 94 | |
| ## | | 147 | 770 | 94 | |
| ## | | 147 | 770 | 94 | |
| | 6 | 147 | 770 | 94 | |
| ## | 7 | 147 | 770 | 94 | |
| ## | 8 | 147 | 770 | 94 | |
| ## | | 147 | 770 | 94 | |
| | 10 | 147 | 770 | 94 | |
| ## | 11 | 147 | 770 | 94 | |
| ## | 12 | 147 | 770 | 94 | |
| | 13 | 147 | 770 | 94 | |
| | 14 | 147 | 770 | 94 | |
| | 15 | 147 | 770 | 94 | |
| | 16 | 147 | 770 | 94 | |
| | 17 | 147 | 770 | 94 | |
| | 18 | 147 | 770 | 94 | |
| | 19 | 147 | 770 | 94 | |
| | 20 | 147 | 770 | 94 | |
| | 21 | 147 | 770 | 94 | |
| | 22 | 147 | 770 | 94 | |
| | 23 | 147 | 770 | 94 | |
| | 24 | 147 | 770 | 94 | |
| | 2 4 25 | 147 | 770 | 94 | |
| | | 147 | 770 | 94 | |
| ## | 26 | 141 | 110 | 94 | |
| ## | 26 27 | | 770 | | |
| | 27 | 147 | 770 770 | 94 | |
| ## | 27 28 | 147 147 | 770 | 94 94 | |
| ## ## | 27 | 147 | | 94 | |

| ## 31 | 2064 | 21 | 56 |
|------------------------|------|----|----------|
| ## 32 | 2064 | 21 | 56 |
| ## 33 | 2064 | 21 | 56 |
| ## 34 | 2064 | 21 | 56 |
| ## 35 | 2064 | 21 | 56 |
| ## 36 | 2064 | 21 | 56 |
| ## 37 | 2064 | 21 | 56 |
| ## 38 | 2064 | 21 | 56 |
| ## 39 | 2064 | 21 | 56 |
| ## 39 ## 40 | 2064 | 21 | 56 |
| | | | |
| ## 41 | 2064 | 21 | 56 |
| ## 42 | 2064 | 21 | 56 |
| ## 43 | 2064 | 21 | 56 |
| ## 44 | 2064 | 21 | 56 |
| ## 45 | 2064 | 21 | 56 |
| ## 46 | 2064 | 21 | 56 |
| ## 47 | 2064 | 21 | 56 |
| ## 48 | 2064 | 21 | 56 |
| ## 49 | 2064 | 21 | 56 |
| ## 50 | 2064 | 21 | 56 |
| ## 51 | 2064 | 21 | 56 |
| ## 52 | 2064 | 21 | 56 |
| ## 53 | 2064 | 21 | 56 |
| ## 54 | 2064 | 21 | 56 |
| ## 55 | 2064 | 21 | 56 |
| ## 56 | 2064 | 21 | 56 |
| ## 57 | 2064 | 21 | 56 |
| ## 58 | 2064 | 21 | 56 |
| ## 58 ## 59 | 2064 | 21 | 56 |
| | | | |
| ## 60 | 2064 | 21 | 56 |
| ## 61 | 2064 | 21 | 56 |
| ## 62 | 2064 | 21 | 56 |
| ## 63 | 2064 | 21 | 56 |
| ## 64 | 2064 | 21 | 56 |
| ## 65 | 2064 | 21 | 56 |
| ## 66 | 2064 | 21 | 56 |
| ## 67 | 2064 | 21 | 56 |
| ## 68 | 2064 | 21 | 56 |
| ## 69 | 2064 | 21 | 56 |
| ## 70 | 2064 | 21 | 56 |
| ## 71 | 2064 | 21 | 56 |
| ## 72 | 2064 | 21 | 56 |
| ## 73 | 2064 | 21 | 56 |
| ## 74 | 2064 | 21 | 56 |
| ## 75 | 2064 | 21 | 56 |
| ## 76 | 2064 | 21 | 56 |
| ## 77 | 2064 | 21 | 56 |
| ## 78 | 2064 | 21 | 56 |
| ## 79 | 2064 | 21 | 56 |
| ## 7 <i>9</i> ## 80 | 2064 | 21 | 56 |
| ## 80 ## 81 | 2064 | 21 | 56 |
| ## 81 ## 82 | 2064 | 21 | |
| | | | 56 56 |
| ## 83 | 2064 | 21 | 56 |
| ## 84 | 2064 | 21 | 56 |
| | | | |

| ## | 85 | | 2064 | | 21 | | 56 |
|----------|----------|----------------|------------|-----------------|------------|------------|-------------------|
| | 86 | | 2064 | | 21 | | 56 |
| | 87 | | 2064 | | 21 | | 56 |
| ## | 88 | | 2064 | | 21 | | 56 |
| ## | 89 | | 2064 | | 21 | | 56 |
| ## | 90 | | 2064 | | 21 | | 56 |
| ## | 91 | | 2064 | | 21 | | 56 |
| ## | 92 | | 2064 | | 21 | | 56 |
| ## | 93 | | 2064 | | 21 | | 56 |
| ## | 94 | | 2064 | | 21 | | 56 |
| ## | 95 | | 2064 | | 21 | | 56 |
| ## | 96 | | 2064 | | 21 | | 56 |
| ## | 97 | | 892 | | 24 | | 40 |
| ## | 98 | | 892 | | 24 | | 40 |
| | 99 | | 892 | | 24 | | 40 |
| | 100 | MOMAL WEAR DED | 892 | DED EG | 24 | DDD | 40 |
| ## ## | 1 | 101AL_YEAK_BED | IUIAL_YEAR | _BED_ES 1130 | TUTAL_YEAR | 698_BED_IH | TOTAL_YEAR_BED_SH |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| | 7 | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | | 1828 | | 1130 | | 698 | 0 |
| ## | 10 | 1828 | | 1130 | | 698 | 0 |
| ## | 11 | 1828 | | 1130 | | 698 | 0 |
| ## | 12 | 1828 | | 1130 | | 698 | 0 |
| ## | 13 | 1828 | | 1130 | | 698 | 0 |
| ## | 14 | 1828 | | 1130 | | 698 | 0 |
| ## | 15 | 1828 | | 1130 | | 698 | 0 |
| ## | 16 | 1828 | | 1130 | | 698 | 0 |
| ## | 17 | 1828 | | 1130 | | 698 | 0 |
| ## | 18 | 1828 | | 1130 | | 698 | 0 |
| ## ## | 19 | 1828 | | 1130 | | 698 | 0 |
| | 20 21 | 1828 1828 | | 1130 1130 | | 698 698 | 0 |
| | 22 | 1828 | | 1130 | | 698 | 0 |
| ## | 23 | 1828 | | 1130 | | 698 | 0 |
| ## | 24 | 1828 | | 1130 | | 698 | 0 |
| ## | 25 | 1828 | | 1130 | | 698 | 0 |
| ## | 26 | 1828 | | 1130 | | 698 | 0 |
| ## | 27 | 1828 | | 1130 | | 698 | 0 |
| ## | 28 | 1828 | | 1130 | | 698 | 0 |
| | 29 | 1828 | | 1130 | | 698 | 0 |
| | 30 | 3444 | | 2073 | | 1334 | 37 |
| ## | 31 | 3444 | | 2073 | | 1334 | 37 |
| | 32 | 3444 | | 2073 | | 1334 | 37 |
| | 33 | 3444 | | 2073 | | 1334 | 37 |
| | 34 | 3444 | | 2073 | | 1334 | 37 |
| ## | | 3444 | | 2073 | | 1334 | 37 |
| ## | | 3444 | | 2073 | | 1334 | 37 |
| ## | 37 | 3444 | | 2073 | | 1334 | 37 |

| ## | 38 | 3444 | 2073 | 1334 | 37 |
|----|----|------|------|------|----|
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
| ## | | 3444 | 2073 | 1334 | 37 |
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| ## | 92 | 3 | 444 | 20 | 73 | 1334 | | 37 |
|----|----------|------------------|------------------|----------------|----------------|---------------|-------------|-------------|
| | 93 | | 444 | | 73 | 1334 | | 37 |
| | 94 | | 444 | | 73 | 1334 | | 37 |
| ## | 95 | | 444 | | 73 | 1334 | | 37 |
| | 96 | 3 | 444 | | 73 | 1334 | | 37 |
| | 97 | | :062 | | 13 | 549 | | 0 |
| ## | 98 | | .062 | | 13 | 549 | | 0 |
| ## | 99 | | .062 | | 13 | 549 | | 0 |
| ## | 100 | 2 | .062 | 15 | 13 | 549 | | 0 |
| ## | | Population | Employment | Poverty | DepressPCT | CrimeViolence | rent50_1 | rent50_2 |
| ## | 1 | 740983 | 329200 | 87000 | 0.185 | 6338 | 978 | 1128 |
| ## | 2 | 740983 | 329200 | 87000 | 0.185 | 6338 | 792 | 1052 |
| ## | 3 | 740983 | 329200 | 87000 | 0.185 | 6338 | 899 | 1037 |
| ## | 4 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1081 | 1374 |
| ## | 5 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1068 | 1398 |
| ## | 6 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1009 | 1341 |
| ## | 7 | 740983 | 329200 | 87000 | 0.185 | 6338 | 922 | 1226 |
| ## | 8 | 740983 | 329200 | 87000 | 0.185 | 6338 | 836 | 1068 |
| ## | 9 | 740983 | 329200 | 87000 | 0.185 | 6338 | 991 | 1265 |
| ## | 10 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1395 | 1609 |
| ## | 11 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1191 | 1374 |
| ## | 12 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1153 | 1330 |
| | 13 | 740983 | 329200 | 87000 | 0.185 | 6338 | 828 | 1100 |
| | 14 | 740983 | 329200 | 87000 | 0.185 | 6338 | 827 | 1099 |
| | 15 | 740983 | 329200 | 87000 | 0.185 | 6338 | 665 | 875 |
| | 16 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1182 | 1571 |
| | 17 | 740983 | 329200 | 87000 | 0.185 | 6338 | 931 | 1195 |
| | 18 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1122 | 1295 |
| | 19 | 740983 | 329200 | 87000 | 0.185 | 6338 | 891 | 1144 |
| | 20 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1226 | 1415 |
| | 21 22 | 740983 | 329200 | 87000 87000 | 0.185 | 6338 | 1349 825 | 1723 952 |
| | 23 | 740983 740983 | 329200 329200 | 87000 | 0.185 0.185 | 6338 6338 | 699 | 892 892 |
| | 24 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1202 | 1555 |
| | 25 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1372 | 1752 |
| | 26 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1357 | 1803 |
| ## | | 740983 | 329200 | 87000 | 0.185 | 6338 | 1144 | 1320 |
| | 28 | 740983 | 329200 | 87000 | 0.185 | 6338 | 989 | 1315 |
| | 29 | 740983 | 329200 | 87000 | 0.185 | 6338 | 1061 | 1370 |
| | 30 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 529 | 672 |
| ## | 31 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 536 | 636 |
| ## | 32 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 553 | 710 |
| ## | 33 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 480 | 621 |
| ## | 34 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 684 | 831 |
| ## | 35 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 665 | 800 |
| ## | 36 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 503 | 669 |
| ## | 37 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 631 | 836 |
| ## | 38 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 566 | 709 |
| ## | 39 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 475 | 621 |
| | 40 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 735 | 886 |
| | 41 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 908 | 1047 |
| | 42 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 538 | 621 |
| | 43 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 538 | 621 |
| ## | 44 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 539 | 716 |

| ## | 45 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 560 | 658 |
|----|----|---------|---------|--------|-------|-------|-----|-----|
| ## | 46 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 557 | 689 |
| ## | 47 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 529 | 639 |
| ## | 48 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 515 | 621 |
| ## | 49 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 812 | 937 |
| ## | 50 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 812 | 937 |
| ## | 51 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 467 | 621 |
| ## | 52 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 812 | 937 |
| ## | 53 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 545 | 725 |
| ## | 54 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 812 | 937 |
| ## | 55 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 702 | 841 |
| ## | 56 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 570 | 658 |
| ## | 57 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 467 | 621 |
| ## | 58 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 568 | 714 |
| ## | 59 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 501 | 666 |
| ## | 60 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 545 | 665 |
| ## | 61 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 538 | 621 |
| ## | 62 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 735 | 886 |
| ## | 63 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 545 | 678 |
| ## | 64 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 545 | 678 |
| ## | 65 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 494 | 621 |
| ## | 66 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 467 | 621 |
| ## | 67 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 735 | 886 |
| ## | 68 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 485 | 644 |
| ## | 69 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 684 | 831 |
| ## | 70 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 494 | 621 |
| ## | 71 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 553 | 710 |
| ## | 72 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 638 | 797 |
| ## | 73 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 528 | 664 |
| ## | 74 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 812 | 937 |
| ## | 75 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 506 | 672 |
| ## | 76 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 538 | 621 |
| ## | 77 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 510 | 621 |
| ## | 78 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 646 | 859 |
| ## | 79 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 665 | 800 |
| ## | 80 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 467 | 621 |
| ## | 81 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 570 | 758 |
| ## | 82 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 543 | 722 |
| ## | 83 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 474 | 621 |
| ## | 84 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 492 | 654 |
| ## | 85 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 538 | 621 |
| ## | 86 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 518 | 689 |
| ## | 87 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 563 | 650 |
| ## | 88 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 783 | 954 |
| ## | 89 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 564 | 713 |
| ## | 90 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 735 | 886 |
| ## | 91 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 600 | 718 |
| ## | 92 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 592 | 778 |
| ## | 93 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 547 | 717 |
| ## | 94 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 530 | 705 |
| ## | 95 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 594 | 707 |
| ## | 96 | 4877989 | 2018700 | 735000 | 0.238 | 25469 | 564 | 713 |
| ## | 97 | 3003855 | 1248700 | 436000 | 0.248 | 16996 | 486 | 611 |
| ## | 98 | 3003855 | 1248700 | 436000 | 0.248 | 16996 | 496 | 659 |

| ## | 99 | 300385 | 55 1248 | 3700 43600 | 00 | 0.248 | 16996 | 543 | 722 |
|----------|----------|--------------|--------------|--------------------|--------------|--------------|--------------|-----|-----|
| ## | 100 | 300385 | 55 1248 | 3700 43600 | 00 | 0.248 | 16996 | 538 | 696 |
| ## | | rent50_3 | $rent50_4$ | ${\tt Statename}$ | ave_f | ave_c | weather_rank | | |
| ## | | 1411 | 1555 | | | | 50 | | |
| ## | 2 | 1415 | 1633 | Alaska | 26.6 | -3.0 | 50 | | |
| ## | 3 | 1342 | 1610 | Alaska | 26.6 | -3.0 | 50 | | |
| ## | 4 | 2000 | 2421 | Alaska | | | 50 | | |
| ## | 5 | 1828 | 2421 | | | | 50 | | |
| ## | | 1952 | 2363 | | | -3.0 | 50 | | |
| ## | | 1534 | 1903 | | | -3.0 | 50 | | |
| ## | | 1336 | 1472 | | | -3.0 | 50 | | |
| ## | | 1583 | 1964 | | | -3.0 | 50 | | |
| | 10 | 2013 | 2218 | | | -3.0 | 50 | | |
| | 11 | 1858 | 2133 | | | -3.0 | 50 | | |
| | 12 | 1781 | 2343 | | | -3.0 | 50 | | |
| | 13 | 1601 | 1938 | | | -3.0 | 50 | | |
| | 14 | 1375 | 1515 | | | -3.0 | 50 | | |
| | 15 | 1095 | 1542 | | | -3.0 | 50 | | |
| | 16 | 2260 | 2516 | | | -3.0 | 50 | | |
| | 17 | 1560 | 1903 | | | -3.0 | 50 | | |
| | 18 | 1885 | 2282 | | | -3.0 | 50 | | |
| | 19 | 1431 | 1577 | | | -3.0 | 50 | | |
| | 20 | 1770 | 1950 | | | -3.0 | 50 | | |
| | 21 22 | 2230 | 2675 | | | -3.0 | 50 | | |
| | 23 | 1191 1225 | 1478 1230 | Alaska Alaska | | -3.0 -3.0 | 50 50 | | |
| | 23 24 | 2264 | 2414 | | | -3.0 | 50 | | |
| | 25 | 2192 | 2415 | Alaska | | -3.0 | 50 | | |
| | 26 | 2256 | 2799 | | | -3.0 | 50 | | |
| | 27 | 1922 | 2326 | | | -3.0 | 50 | | |
| | 28 | 1647 | 1813 | | | | 50 | | |
| | 29 | 1902 | 2127 | | | | 50 | | |
| | 30 | 943 | 1184 | | | 17.1 | 7 | | |
| ## | | 796 | 908 | | | 17.1 | 7 | | |
| ## | 32 | 955 | 1128 | | | | 7 | | |
| ## | 33 | 818 | 1029 | | | | 7 | | |
| ## | 34 | 1067 | 1145 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 35 | 1088 | 1410 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 36 | 890 | 956 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 37 | 1050 | 1152 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 38 | 905 | 977 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 39 | 904 | 1012 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | 40 | 1136 | 1536 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 1524 | 1751 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 884 | 887 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 784 | 1094 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 989 | 1027 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 953 | 1054 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 911 | 1052 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 844 | 1050 | Alabama | 62.8 | 17.1 | 7 | | |
| ## | | 818 | 887 1405 | Alabama | 62.8 | 17.1 | 7 7 | | |
| ## ## | | 1258 1258 | 1405 1405 | Alabama | 62.8 62.8 | 17.1 | 7 7 | | |
| ## | | 853 | 856 | Alabama Alabama | 62.8 | 17.1 17.1 | 7 | | |
| ## | ΟI | 003 | 000 | тараща | 02.0 | 11.I | 1 | | |

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## 52
            1258
                      1405
                              Alabama
                                         62.8
                                                17.1
## 53
             907
                      1036
                                         62.8
                                                17.1
                                                                  7
                              Alabama
## 54
                                                                  7
            1258
                      1405
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 55
            1171
                       1482
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 56
             958
                      1159
                              Alabama
                                         62.8
                                                17.1
## 57
                              Alabama
                                         62.8
                                                                  7
             884
                       887
                                               17.1
## 58
                                         62.8
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             954
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## 59
             879
                      1173
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## 60
             832
                       917
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## 61
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             860
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                                                                  7
## 62
            1136
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## 63
             903
                       947
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   64
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## 65
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## 66
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## 67
            1136
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## 68
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## 69
            1067
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                                                                  7
## 70
             884
                                         62.8
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                                                                  7
## 71
             955
                      1128
                              Alabama
                                         62.8
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## 72
             997
                      1099
                              Alabama
                                                17.1
                                                                  7
## 73
             912
                       915
                              Alabama
                                         62.8
                                                                  7
                                                17.1
                                                                  7
## 74
            1258
                                         62.8
                      1405
                              Alabama
                                               17.1
             873
                                                                  7
## 75
                              Alabama
                                         62.8
                                               17.1
                       979
                                                                  7
## 76
             884
                        887
                              Alabama
                                         62.8
                                               17.1
##
  77
             884
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                              Alabama
                                         62.8
                                               17.1
                                                                  7
## 78
            1157
                       1402
                                         62.8
                                               17.1
                                                                  7
                              Alabama
   79
                                         62.8
                                                                  7
##
            1088
                      1410
                              Alabama
                                               17.1
                                                                  7
## 80
             807
                       891
                                         62.8
                              Alabama
                                               17.1
                                                                  7
## 81
             948
                      1045
                              Alabama
                                         62.8
                                               17.1
                                                                  7
## 82
             903
                      1031
                              Alabama
                                         62.8
                                                17.1
## 83
             876
                       887
                              Alabama
                                         62.8
                                               17.1
                                                                  7
## 84
                                                                  7
             894
                      1152
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 85
                       1003
             896
                              Alabama
                                         62.8
                                               17.1
                                                                  7
## 86
             981
                        984
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 87
             837
                       923
                                         62.8
                              Alabama
                                               17.1
## 88
            1244
                      1440
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 89
             950
                              Alabama
                                         62.8
                                                17.1
                                                                  7
                      1156
                                                                  7
## 90
            1136
                      1536
                              Alabama
                                         62.8
                                                17.1
                                                                  7
## 91
                                         62.8
            1045
                      1265
                              Alabama
                                               17.1
                                                                  7
## 92
                                         62.8
             973
                      1117
                              Alabama
                                               17.1
                                                                  7
## 93
            1027
                      1046
                              Alabama
                                         62.8
                                               17.1
## 94
                                         62.8
                                                                  7
             882
                      1009
                              Alabama
                                               17.1
## 95
                                                                  7
             971
                       975
                                         62.8
                              Alabama
                                               17.1
## 96
                                         62.8
                                                                  7
             950
                      1156
                              Alabama
                                               17.1
## 97
             836
                        897
                                         60.4
                                                15.8
                                                                  9
                             Arkansas
## 98
                                                                  9
             857
                        908
                             Arkansas
                                         60.4
                                               15.8
## 99
             903
                                                                  9
                        995
                             Arkansas
                                         60.4
                                               15.8
## 100
             871
                      1058
                             Arkansas
                                         60.4
                                               15.8
```

```
#kable(usfacts_df, caption="US Homeless Data 2017 - 2020")
#New Variables
```

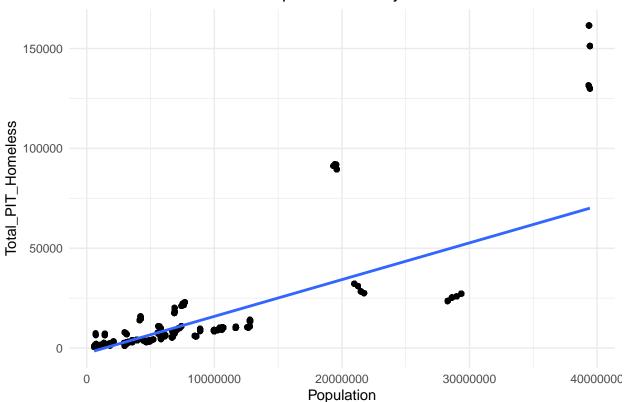
 $\verb|us_homeless_df$homeless_pop_ratio<- us_homeless_df$Total_PIT_Homeless/us_homeless_df$Population and the substitution of th$

The following scatter plots are generated to identify relationship of the different USFACTS variables with the PIT Homeless count.

#ggplot(us_homeless_df, aes(homeless_pop_ratio)) + geom_histogram(bins = 10, aes(y = ..density..)) + gg
Adding regression line to identify relationship between the PIT Homeless count with the different fac
#ggplot(data=us_homeless_df, aes(x=State, y=Total_PIT_Homeless)) + geom_bar() + ggtitle("State PIT Home
ggplot(data=us_homeless_df, aes(x=Population, y=Total_PIT_Homeless)) + geom_point() + geom_smooth(methode)

'geom_smooth()' using formula 'y ~ x'

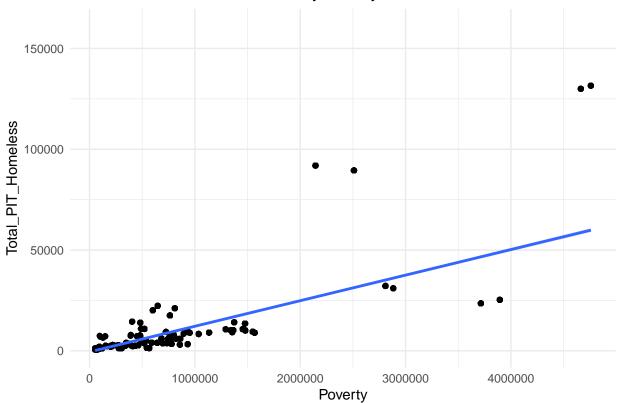
State PIT Homeless and Population Survey 2017 - 2019



ggplot(data=us_homeless_df, aes(x=Poverty, y=Total_PIT_Homeless)) + geom_point() + geom_smooth(method="

- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 9367 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 9367 rows containing missing values (geom_point).

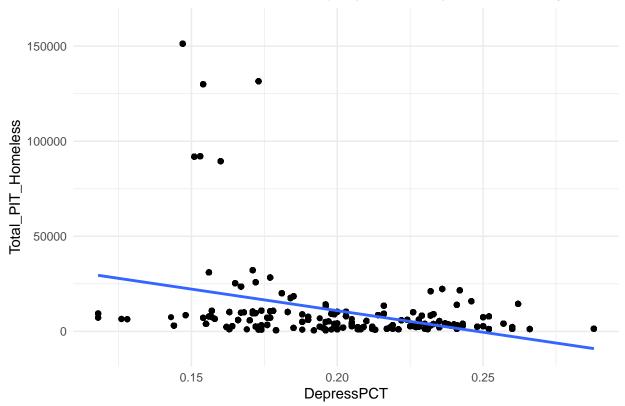




```
ggplot(data=us_homeless_df, aes(x=DepressPCT, y=Total_PIT_Homeless)) + geom_point() + geom_smooth(methode)
## 'geom_smooth()' using formula 'y ~ x'
```

- ## Warning: Removed 4704 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 4704 rows containing missing values (geom_point).

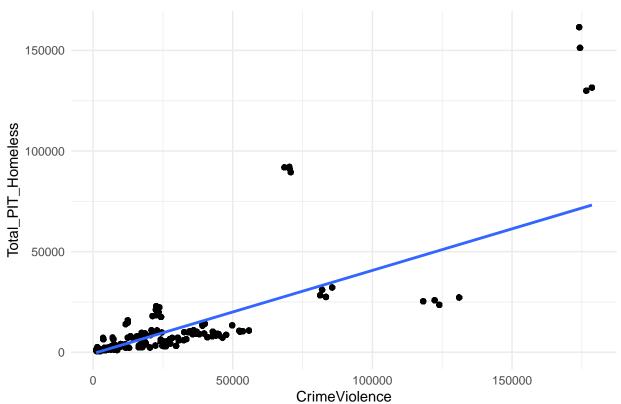




 ${\tt ggplot(data=us_homeless_df,\ aes(x=CrimeViolence,\ y=Total_PIT_Homeless)) \ + \ geom_point() \ + \ geom_smooth(mex)}$

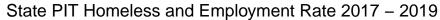
'geom_smooth()' using formula 'y ~ x'

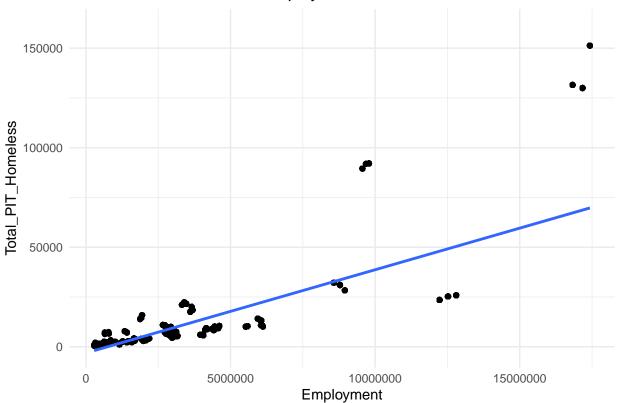




```
ggplot(data=us_homeless_df, aes(x=Employment, y=Total_PIT_Homeless)) + geom_point() + geom_smooth(methor
## (resp. gmosth()) ( using formula );
```

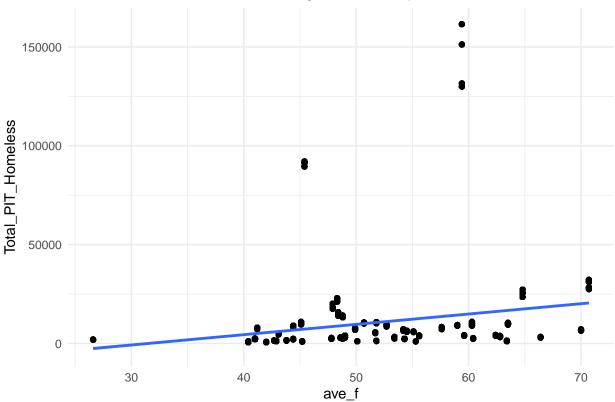
- ## 'geom_smooth()' using formula 'y ~ x'
- ## Warning: Removed 4683 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 4683 rows containing missing values (geom_point).





```
ggplot(data=us_homeless_df, aes(x=ave_f, y=Total_PIT_Homeless) ) + geom_point() + geom_smooth(method="left")
## 'geom_smooth()' using formula 'y ~ x'
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
## Warning: Removed 4 rows containing missing values (geom_point).
```

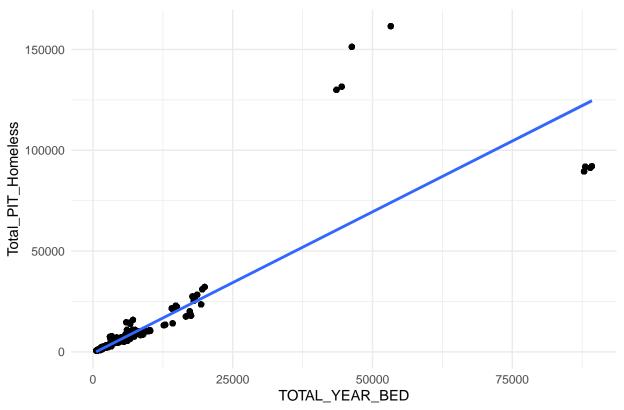




ggplot(data=us_homeless_df, aes(x=TOTAL_YEAR_BED, y=Total_PIT_Homeless)) + geom_point() + geom_smooth()

'geom_smooth()' using formula 'y ~ x'





Questions for future steps and Do you plan on incorporating any machine learning techniques to answer your research questions? Explain.

- Next step is to run Correlation Analysis using these different USFACTS variables with the Total PIT Homelessness and report the result.
- Data in the final dataset contains possible predictors that are quantitative continuous variables and the plot generated seem to indicate linear relationship with the TOTAL PIT Homelesness thus this can be used for generating a multiple linear regression model.