Income mapping in the USA: Analysis

IncomeMapper

11/3/2020

```r
summary(params$data)
```

```
##       id              State_Code        State_Name       State_ab              County
## Min.   :      1026   Min.   : 1.00   California  : 3161   CA     : 3161   Adams County   : 6637   Ch:
## 1st Qu.:  7202941   1st Qu.:13.00   Texas       : 2254   TX     : 2254   Alameda County : 3011   Br
## Median : 28022495   Median :29.00   New York    : 2103   NY     : 2103   Anderson County: 2629   Hou
## Mean   : 61783638   Mean   :28.65   Florida     : 1644   FL     : 1644   Albany County  : 2038   Lo
## 3rd Qu.: 48028153   3rd Qu.:42.00   Pennsylvania: 1461   PA     : 1461   Adair County   : 1772   Ph
## Max.   :480221068   Max.   :72.00   Illinois    : 1404   IL     : 1404   Alachua County : 1553   Br
##                                     (Other)     :19892   (Other):19892   (Other)        :14279   (O
##           Place             Type         Primary        Zip_Code        Area_Code          ALand
## Alameda city    : 3010   Track :28858   place: 3061   Min.   :  601   718    :  710   Min.   :0.000
## Elkhart         : 2064   City  : 1066   Track:28858   1st Qu.:27259   787    :  379   1st Qu.:1.89
## Albany city     : 1984   CDP   :  982                 Median :48183   410    :  311   Median :5.03
## Gainesville city: 1553   Town  :  469                 Mean   :50270   773    :  290   Mean   :1.18
## Abbottstown     : 1283   Village:  386                3rd Qu.:76640   215    :  257   3rd Qu.:3.21
## Camp Point      : 1258   Borough:  129                Max.   :99950   304    :  250   Max.   :9.16
## (Other)         :20767   (Other):   29                                (Other):29722
##      Lat             Lon              Mean            Median          Stdev            sum_w
## Min.   :17.93   Min.   :-175.86   Min.   :     0   Min.   :     0   Min.   :     0   Min.   :     0
## 1st Qu.:34.01   1st Qu.: -97.65   1st Qu.: 45695   1st Qu.: 35746   1st Qu.: 35851   1st Qu.:   206
## Median :38.92   Median : -87.22   Median : 60088   Median : 51210   Median : 45853   Median :   333
## Mean   :37.72   Mean   : -91.32   Mean   : 64826   Mean   : 82642   Mean   : 46709   Mean   :   584
## 3rd Qu.:41.51   3rd Qu.: -79.96   3rd Qu.: 80489   3rd Qu.: 78028   3rd Qu.: 57308   3rd Qu.:   598
## Max.   :71.25   Max.   : -65.50   Max.   :148465   Max.   :300000   Max.   :113936   Max.   :612241
##
```

States

```r
# Selected states
if(is.null(params$selState)){
  print('None selected')
}else{
  params$selState
}
```

```
## [1] "None selected"
```

Counties

```r
# Selected counties
if(is.null(params$selCounty)){
  print('None selected')
}else{
  params$selCounty
}
```

```
## [1] "None selected"
```

Income range

```r
# Min and max income selected
params$income_min
```

```
## [1] 0
```

```r
params$income_max
```

```
## [1] 148509.7
```

Boxplot of mean income by county

```
## [1] "Due to the high number of observations, plotting is not possible with the selected data"
```

Bar plot of standard deviation in income by county

```
## [1] "Due to the high number of observations, plotting is not possible with the selected data"
```