

Income mapping in the USA: Analysis

IncomeMapper

11/3/2020

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

```
##          id          State_Code      State_Name  State_ab          County          City
## Min.      : 101980   Min.      : 1.00   Illinois :4    IL       :4    Shelby County  :12    Shelbyville :3
## 1st Qu.:13012813   1st Qu.:13.00   Alabama  :3    AL       :3    Abbeville County: 0    Calera       :1
## Median :17013637   Median :17.00   Missouri :2    MO       :2    Acadia Parish  : 0    Collierville:1
## Mean    :17686395   Mean    :17.75   Indiana  :1    IA       :1    Accomack County: 0    Columbiana  :1
## 3rd Qu.:21512166   3rd Qu.:21.50   Iowa     :1    IN       :1    Ada County     : 0    Fairland    :1
## Max.    :47011162   Max.    :47.00   Tennessee:1    TN       :1    Adair County   : 0    Harlan      :1
##                                     (Other) :0    (Other):0    (Other)       : 0    (Other)     :4
## Primary      Zip_Code      Area_Code      ALand          AWater          Lat          Lon
## place:12   Min.      :35040   217      :4   Min.      : 221645   Min.      : 0    Min.      :33.11   Min.      :
## Track: 0   1st Qu.:37299   205      :3   1st Qu.: 633266   1st Qu.: 0    1st Qu.:34.58   1st Qu.:
##           Median :57001   573      :2   Median : 1236026   Median : 9405   Median :39.28   Median :
##           Mean    :51492   317      :1   Mean    :21413228   Mean    :153418   Mean    :37.73   Mean    :
##           3rd Qu.:62559   712      :1   3rd Qu.:45773143   3rd Qu.:214574   3rd Qu.:39.66   3rd Qu.:
##           Max.    :63469   901      :1   Max.    :93320458   Max.    :685210   Max.    :41.72   Max.    :
##                                     (Other):0
##           Median      Stdev      sum_w
## Min.      : 22169   Min.      :20654   Min.      : 16.70
## 1st Qu.: 42858   1st Qu.:33252   1st Qu.: 49.71
## Median : 46185   Median :39830   Median : 120.01
## Mean    : 72167   Mean    :41370   Mean    : 818.41
## 3rd Qu.: 62228   3rd Qu.:52142   3rd Qu.: 428.07
## Max.    :300000   Max.    :68805   Max.    :5461.71
##
```

States

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

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

Counties

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

```
## [1] "Shelby County"
```

Income range

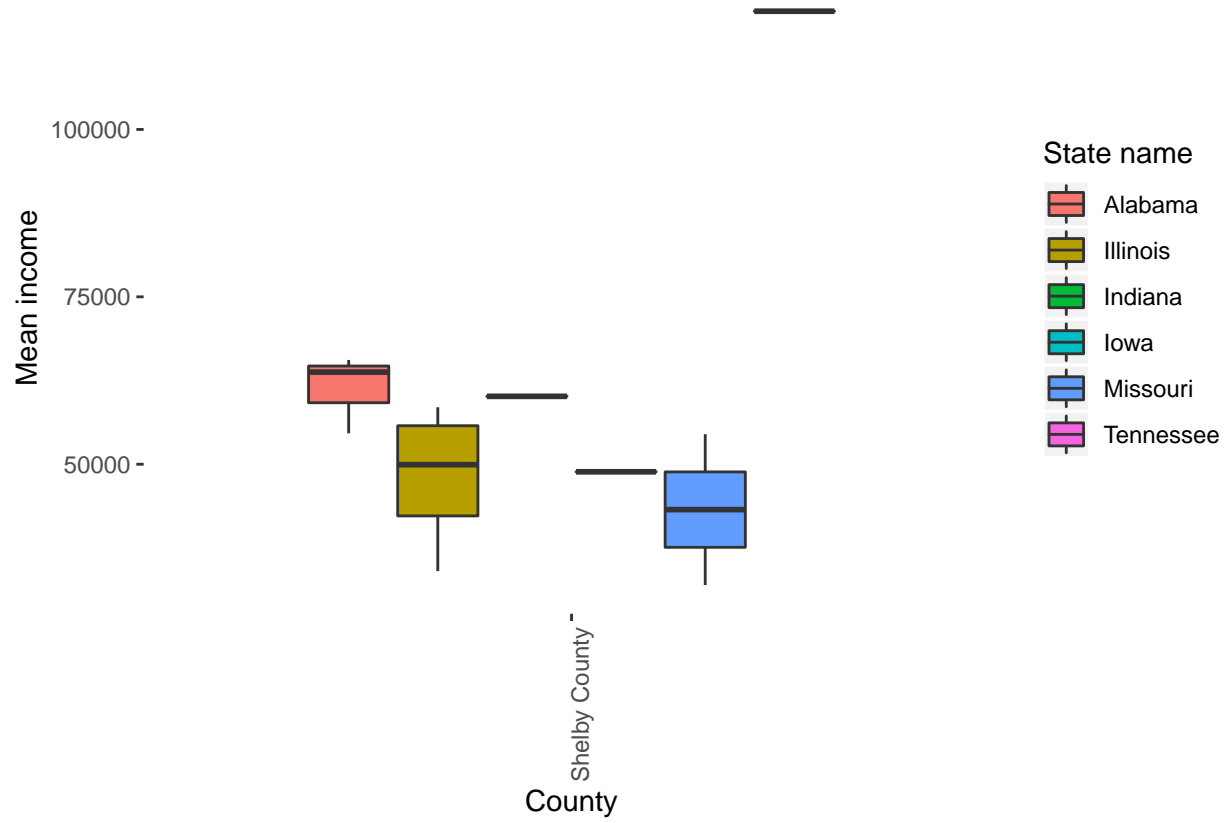
```
# Min and max income selected
params$income_min
```

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

```
params$income_max
```

```
## [1] 242857
```

Boxplot of mean income by county



Bar plot of standard deviation in income by county

