How to use the Map Reliability Calculator

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1. Download your data.

You can do this using the Census API (as seen below) or by visiting American FactFinder and downloading your data from there. The chunk below downloads the number of Hispanic or Latino residents at the census tract level for PA and NJ and subsets the data for Burlington, Camden, Gloucester, and Mercer Counties in NJ; and Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties in PA.

Here's what the results look like:

```
head(trct)
```

```
## # A tibble: 6 x 4
##
     GEOID
                NAME
                                                        B03003_003E B03003_003M
##
     <chr>
                <chr>>
                                                               <dbl>
                                                                           <dbl>
## 1 420171001~ Census Tract 1001.02, Bucks County, ~
                                                                              72
                                                                 118
## 2 420171001~ Census Tract 1001.03, Bucks County, ~
                                                                 161
                                                                             108
## 3 420171001~ Census Tract 1001.04, Bucks County, ~
                                                                 666
                                                                             299
## 4 420171001~ Census Tract 1001.05, Bucks County, ~
                                                                 248
                                                                             259
## 5 420171002~ Census Tract 1002.01, Bucks County, ~
                                                                 173
                                                                             143
## 6 420171002~ Census Tract 1002.06, Bucks County, ~
                                                                 360
                                                                             215
```

2. Prep your data.

The calculator will not work if you supply it extra columns, blank cells, or special characters. The chunk below grabs the estimate and the MOE columns and drops any observations with NAs.

```
trct <- trct %>%
  select(B03003_003E, B03003_003M) %>%
  drop_na()
```

Here's what the results look like:

head(trct)

```
## # A tibble: 6 x 2
## B03003_003E B03003_003M
## <dbl> <dbl>
## 1 118 72
## 2 161 108
## 3 666 299
```

## 4	248	259
## 5	173	143
## 6	360	215

3. Export your data.

Export data as a .csv. Change the file path below to somewhere on your PC.

```
setwd("D:/alarson")
write.csv(trct, file = "export.csv", row.names = FALSE)
```

4. Use the calculator.

Visit the Map Reliability Calculator and drop in your new dataset.