HPS Variables

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Create the functions to print table and plot

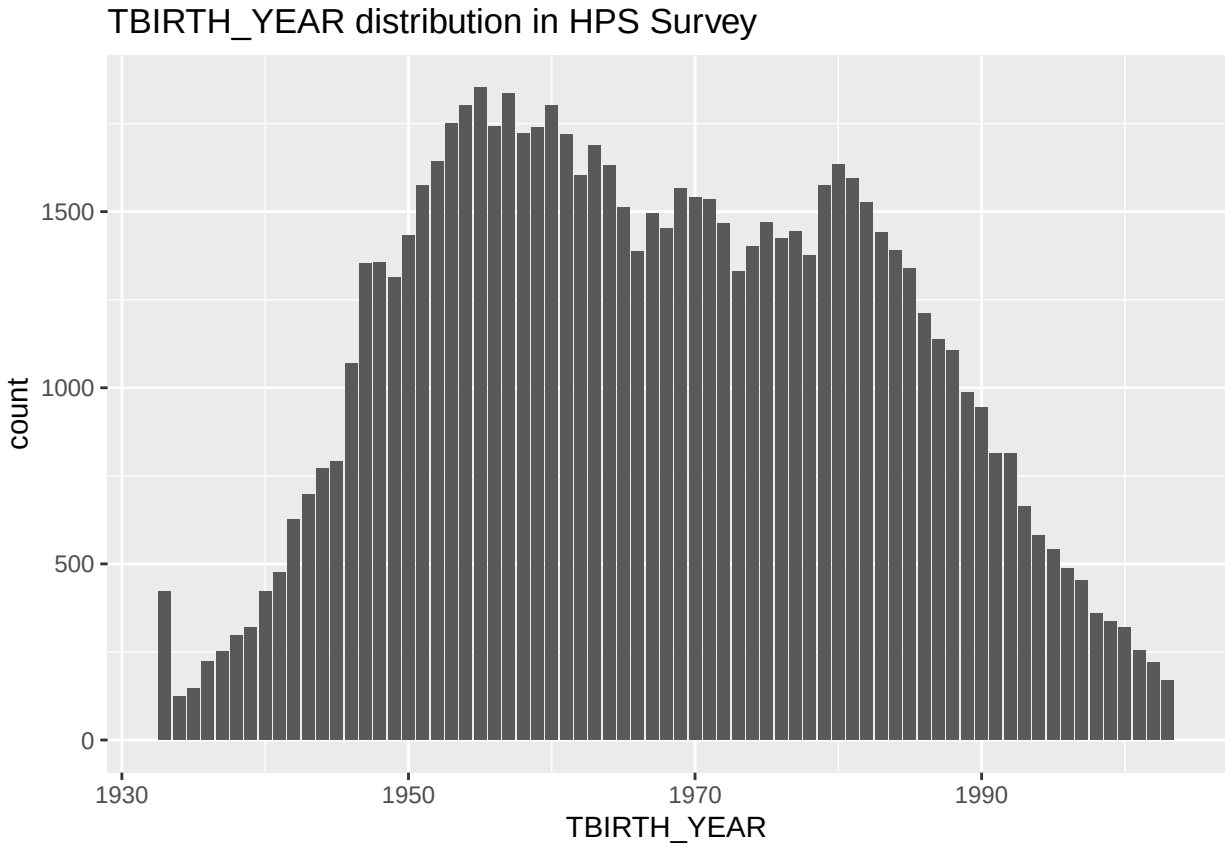
```
issue5_tab <- function(data, col) {
  col <- enquo(col)
  data %>%
    group_by(!!col) %>%
    summarise(count = n())
}

issue5_hist <- function(data, col) {
  col <- enquo(col)
 data %>%
  ggplot(aes(x = !!col, fill = !!col)) +
  geom_histogram(stat = "count") +
  labs(title = paste(colnames(hps_c[i]), "distribution in HPS Survey"), x = paste(colnames(hps_c[i])))
}
```

Loop to run the functions over all the columns

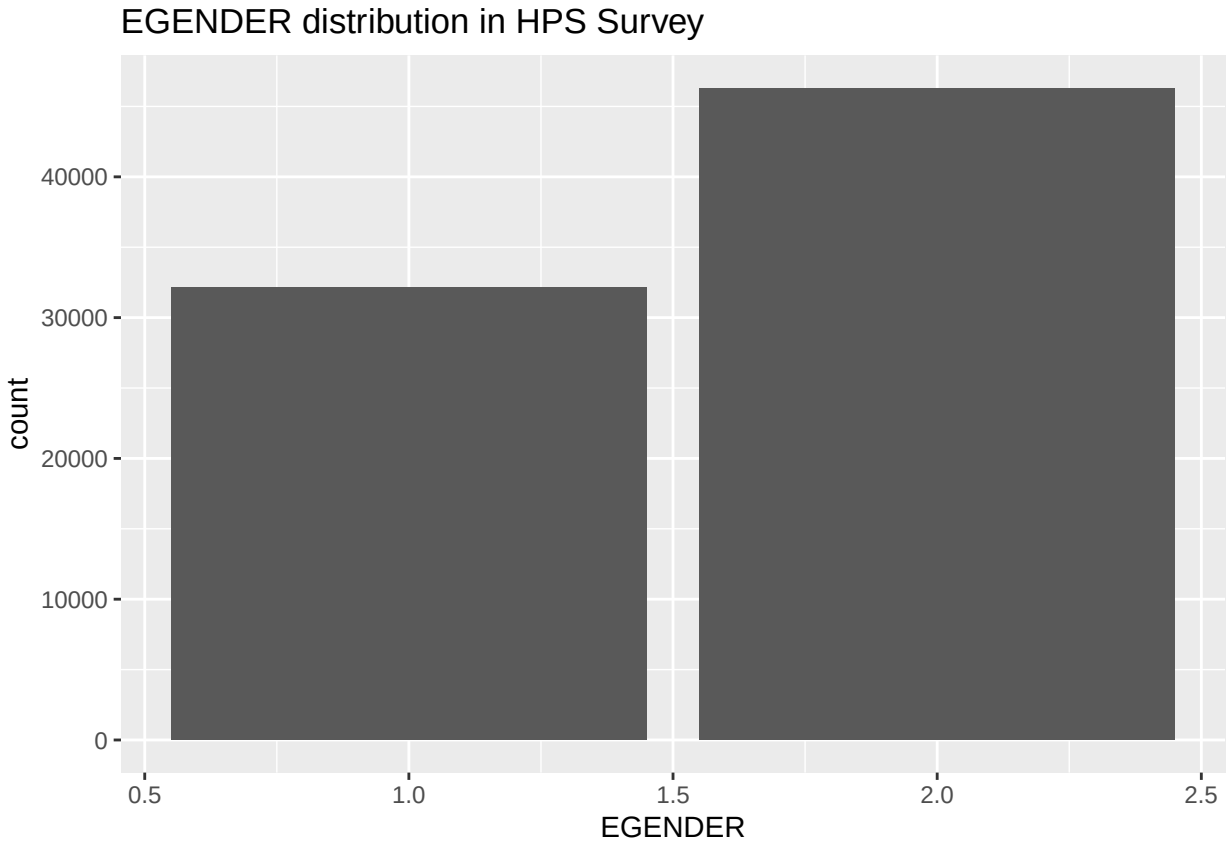
I am also asking it to print the variable name just to make the file more readable.

```
z <- ncol(hps_c)
for(i in 1:z) {
print(colnames(hps_c)[i])
print(issue5_tab(hps_c, hps_c[, i]))
print(issue5_hist(hps_c, hps_c[, i]))
}
```

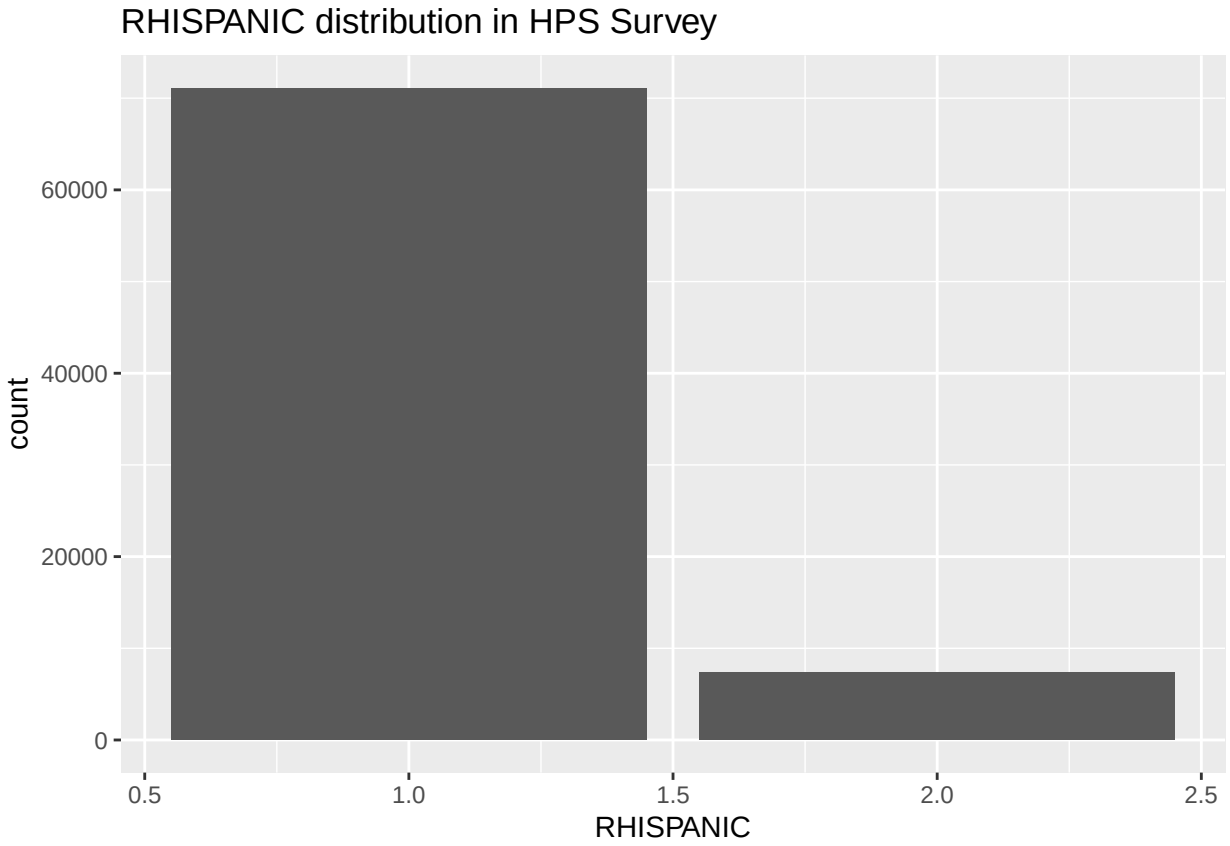
```
## [1] "TBIRTH_YEAR"
## # A tibble: 71 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1         1933   423
##  2         1934   123
##  3         1935   146
##  4         1936   222
##  5         1937   252
##  6         1938   297
##  7         1939   318
##  8         1940   421
##  9         1941   475
## 10         1942   626
## # ... with 61 more rows
```



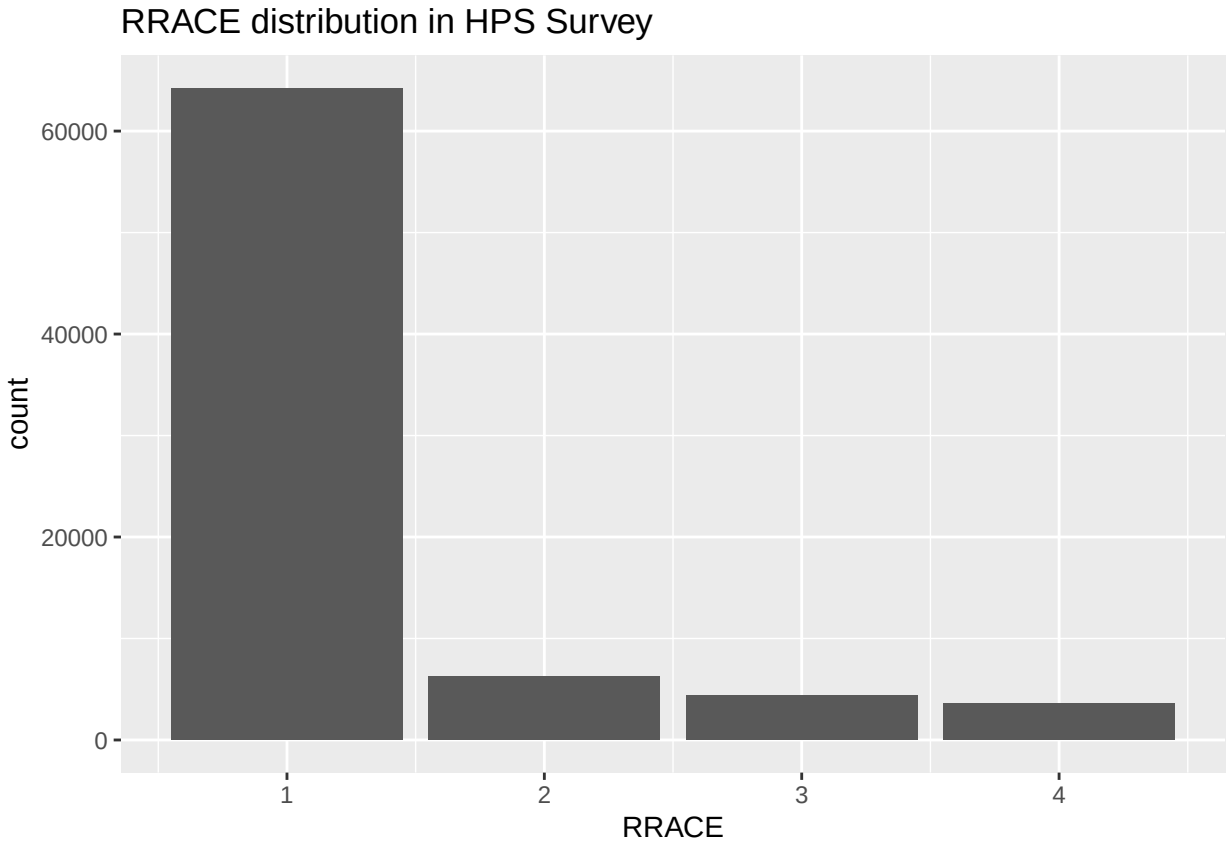

```
## [1] "EGENDER"
## # A tibble: 2 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            1 32158
## 2            2 46309
```



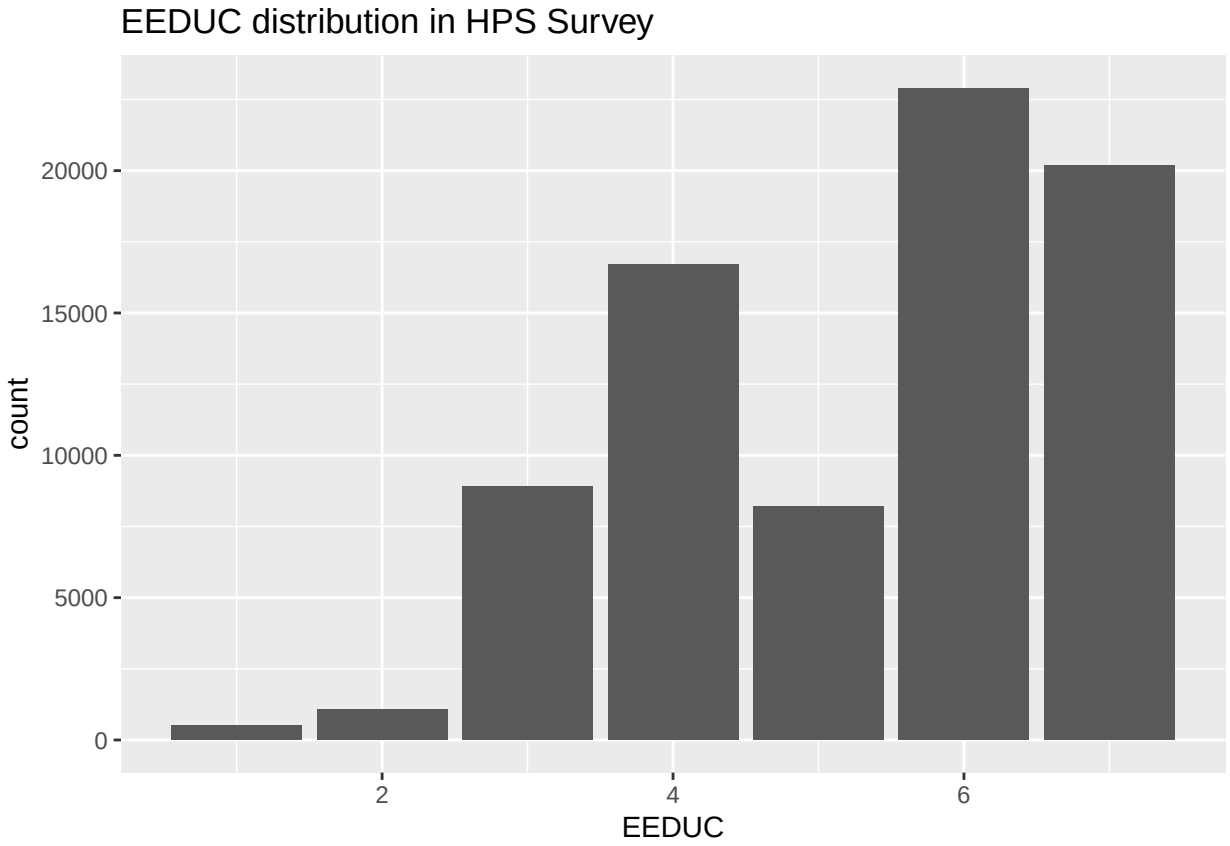

```
## [1] "RHISPANIC"
## # A tibble: 2 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            1 71110
## 2            2  7357
```



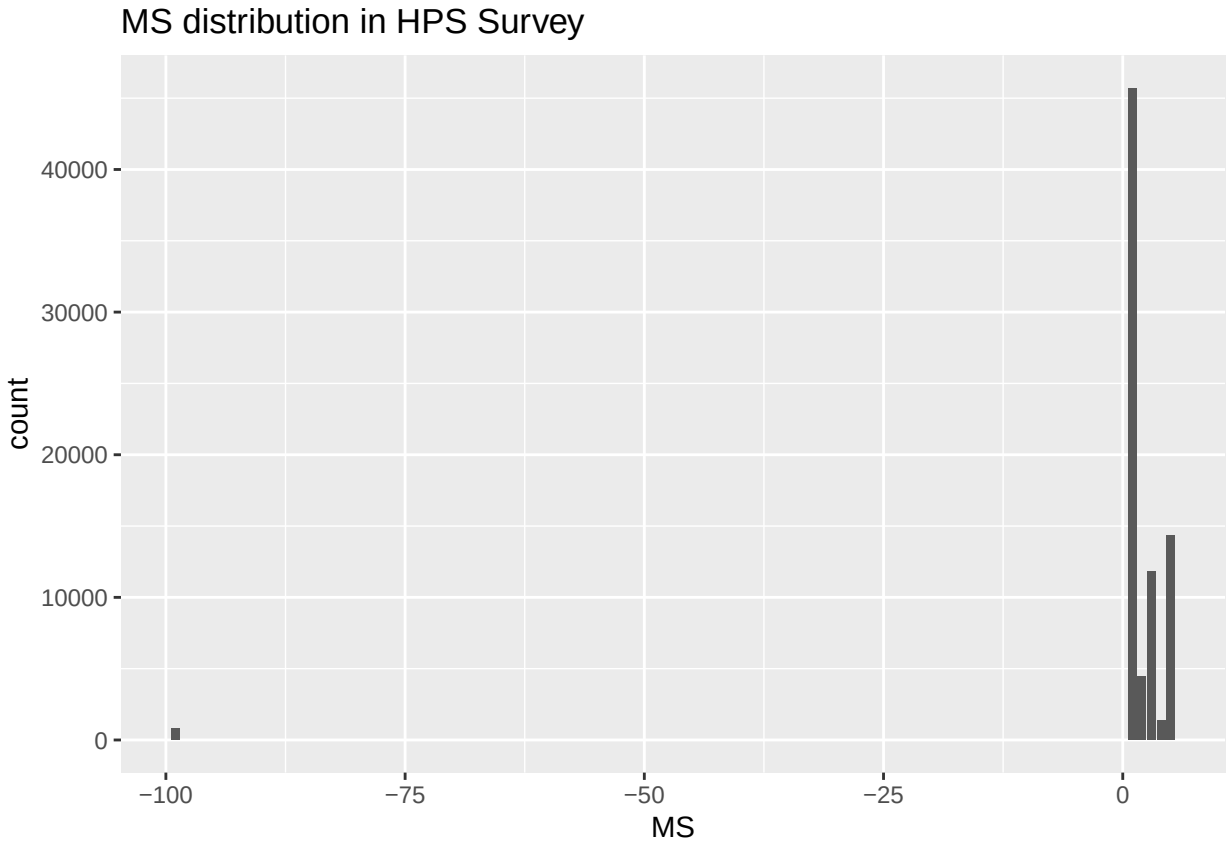

```
## [1] "RRACE"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            1 64245
## 2            2  6227
## 3            3  4366
## 4            4  3629
```



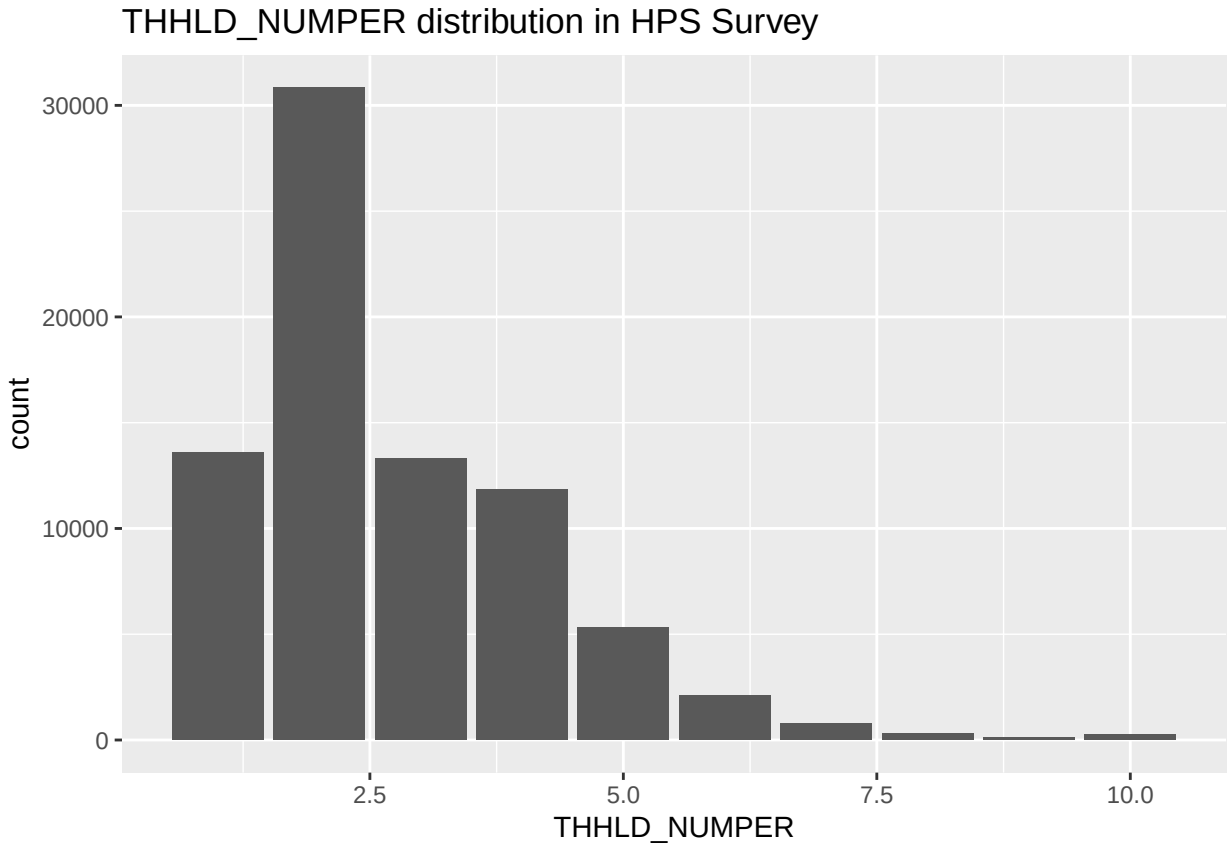

```
## [1] "EEDUC"
## # A tibble: 7 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            1   510
## 2            2  1077
## 3            3  8906
## 4            4 16686
## 5            5  8210
## 6            6 22903
## 7            7 20175
```



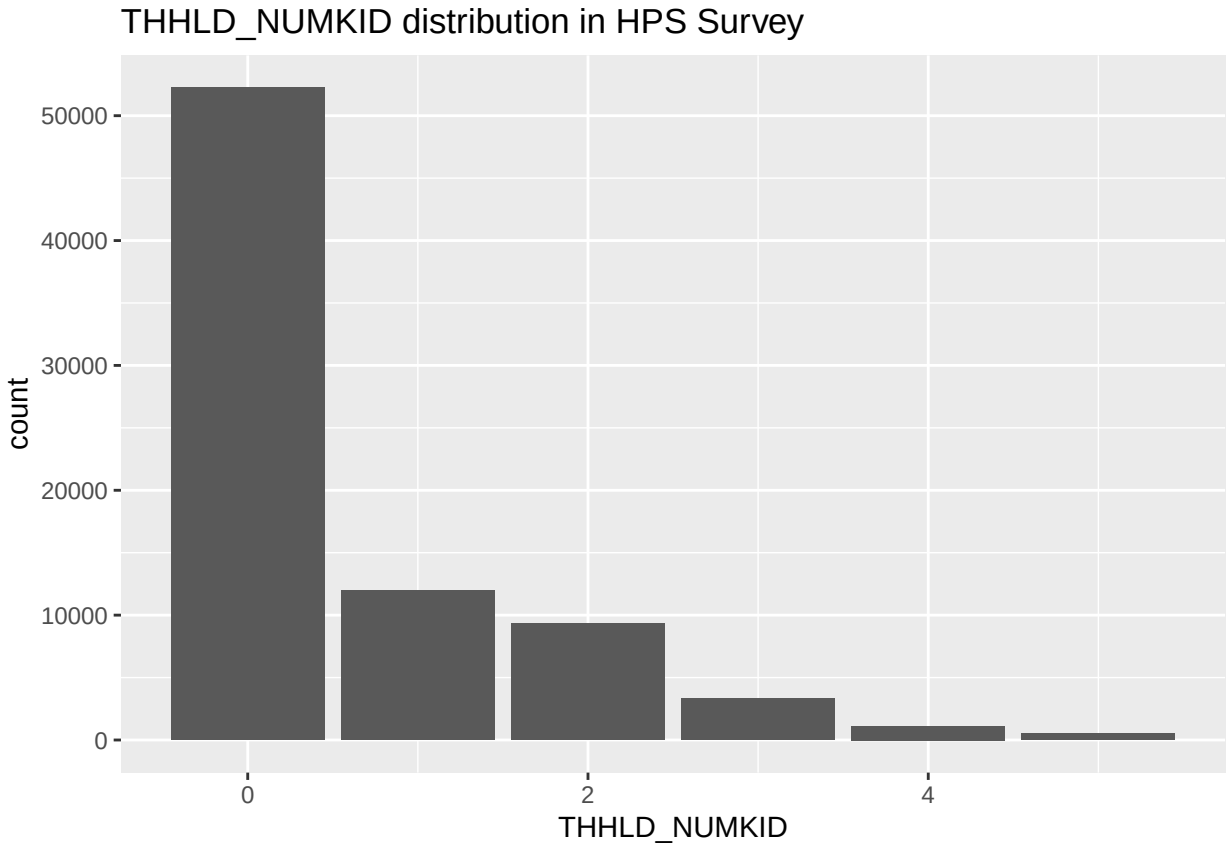

```
## [1] "MS"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   793
## 2            1 45712
## 3            2  4426
## 4            3 11841
## 5            4  1346
## 6            5 14349
```



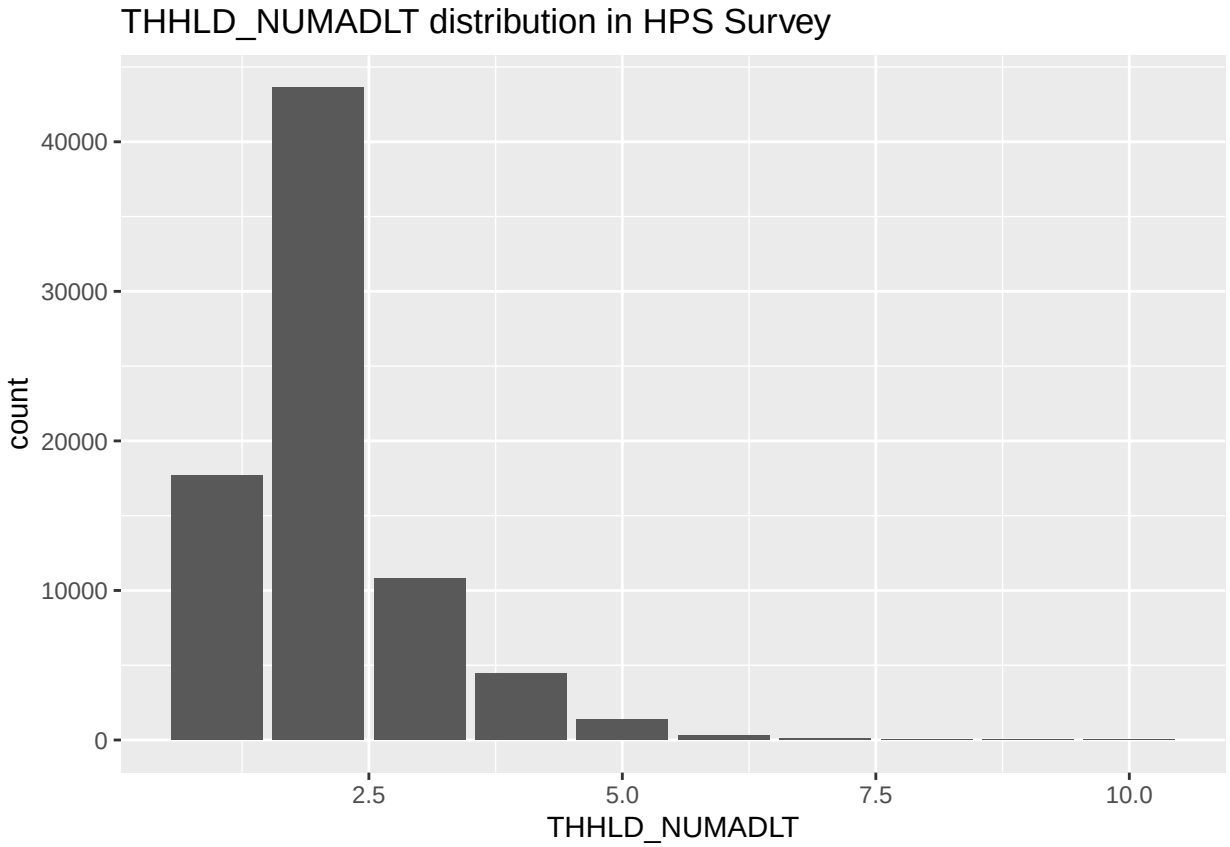

```
## [1] "THHLD_NUMPER"
## # A tibble: 10 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1            1 13606
##  2            2 30821
##  3            3 13284
##  4            4 11832
##  5            5  5328
##  6            6  2104
##  7            7   784
##  8            8   319
##  9            9   124
## 10           10   265
```



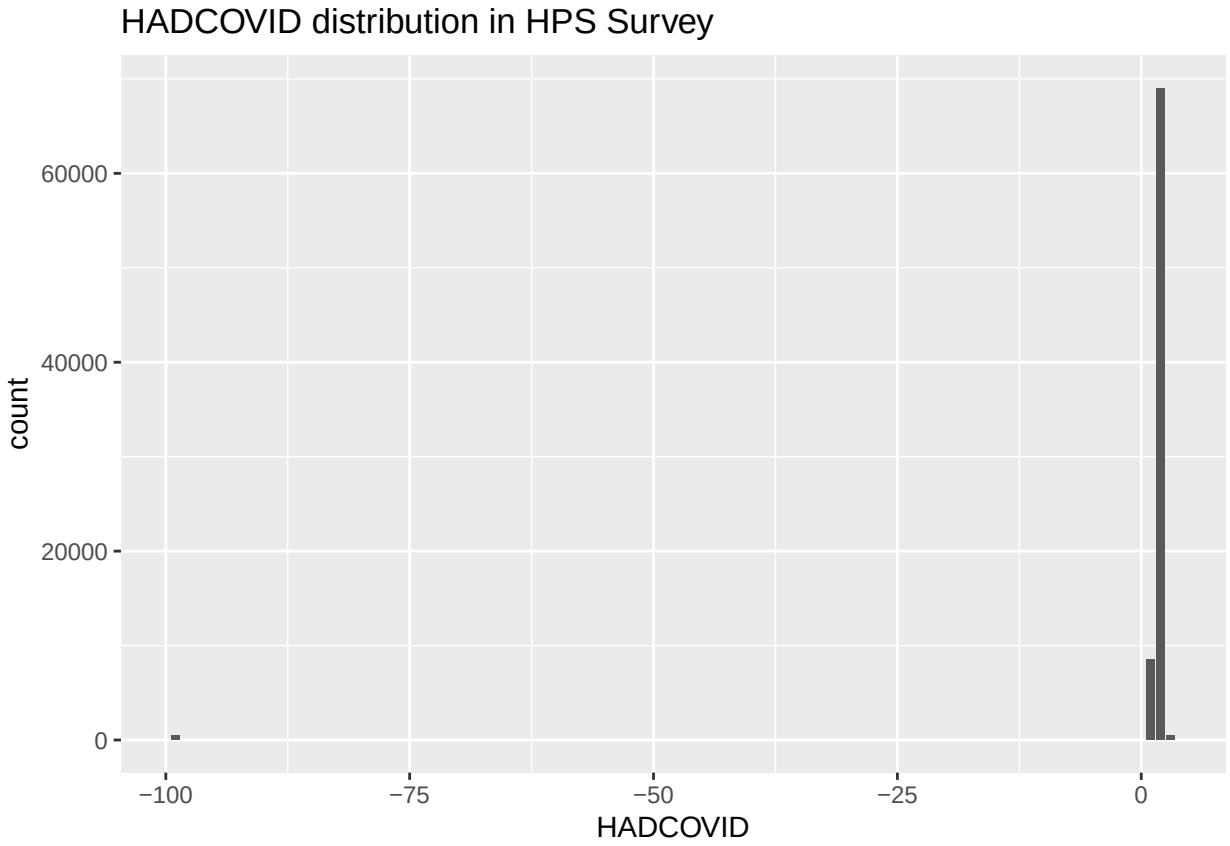

```
## [1] "THHLD_NUMKID"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            0 52217
## 2            1 11937
## 3            2  9311
## 4            3  3328
## 5            4  1122
## 6            5   552
```



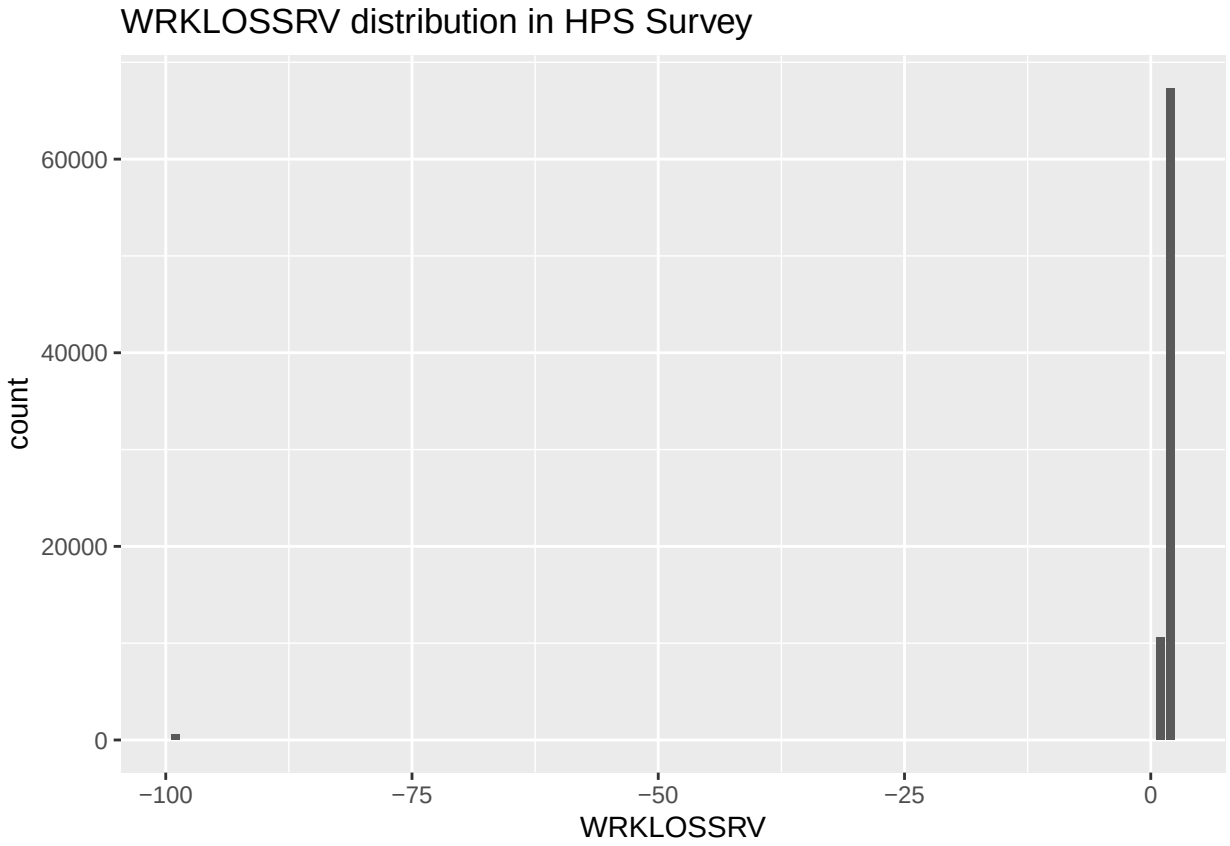

```
## [1] "THHLD_NUMADLT"
## # A tibble: 10 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1            1 17702
##  2            2 43597
##  3            3 10801
##  4            4  4474
##  5            5  1341
##  6            6   317
##  7            7   103
##  8            8    43
##  9            9    50
## 10           10    39
```



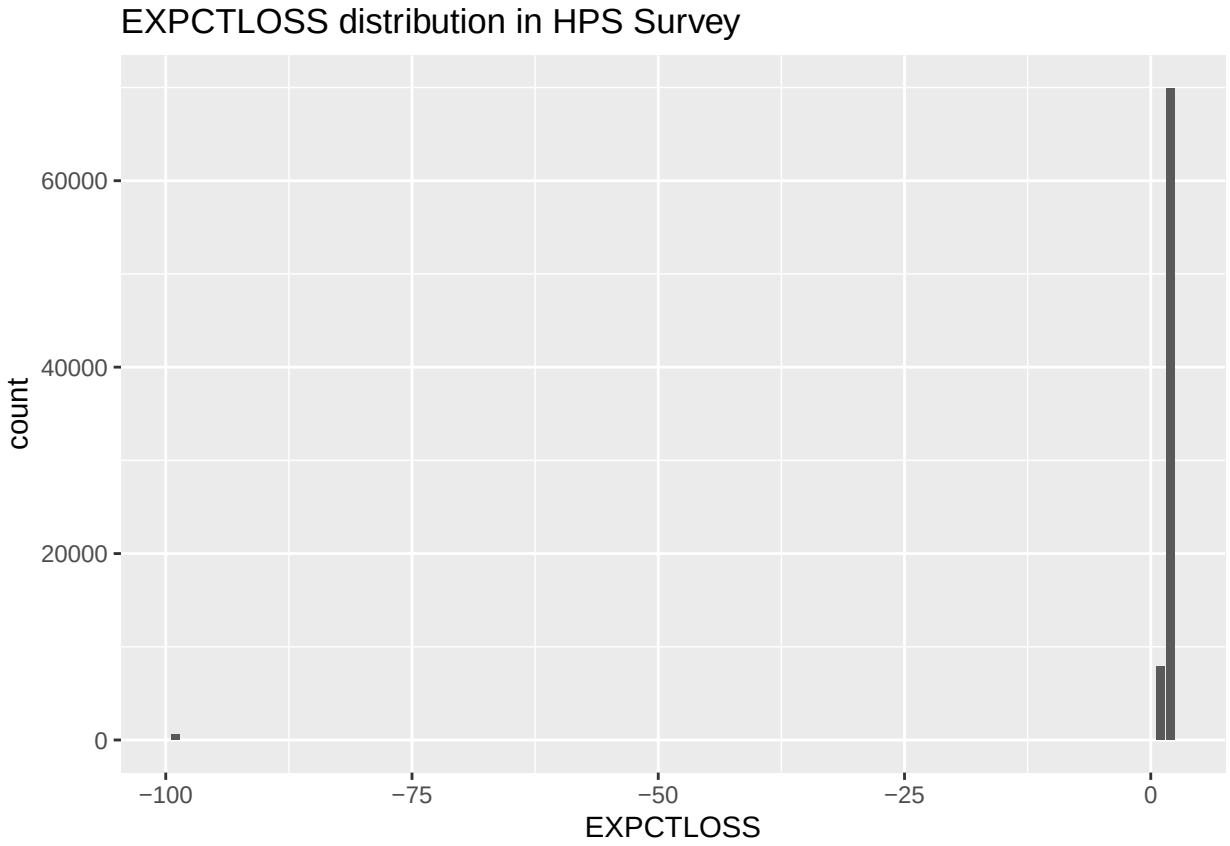

```
## [1] "HADCOVID"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   434
## 2            1  8519
## 3            2 69038
## 4            3   476
```



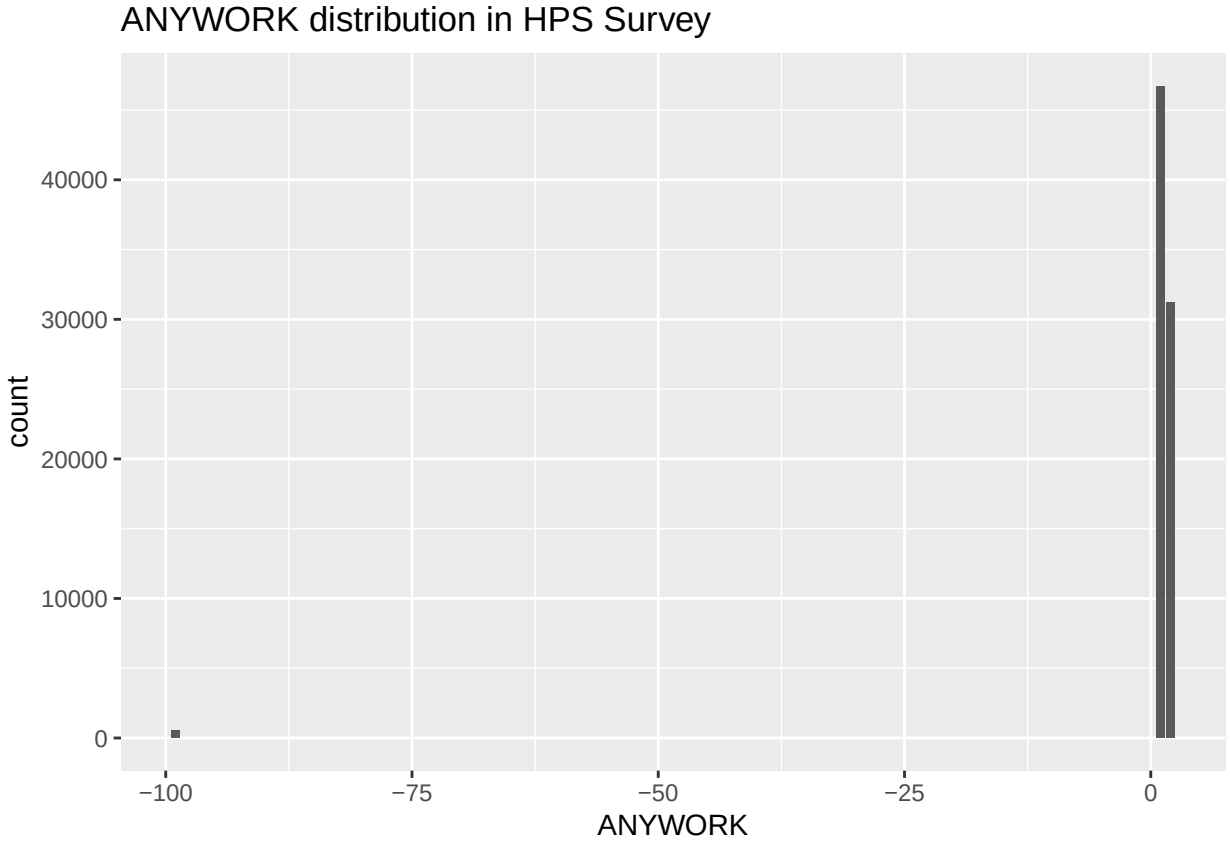

```
## [1] "WRKLOSSRV"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   542
## 2            1 10577
## 3            2 67348
```



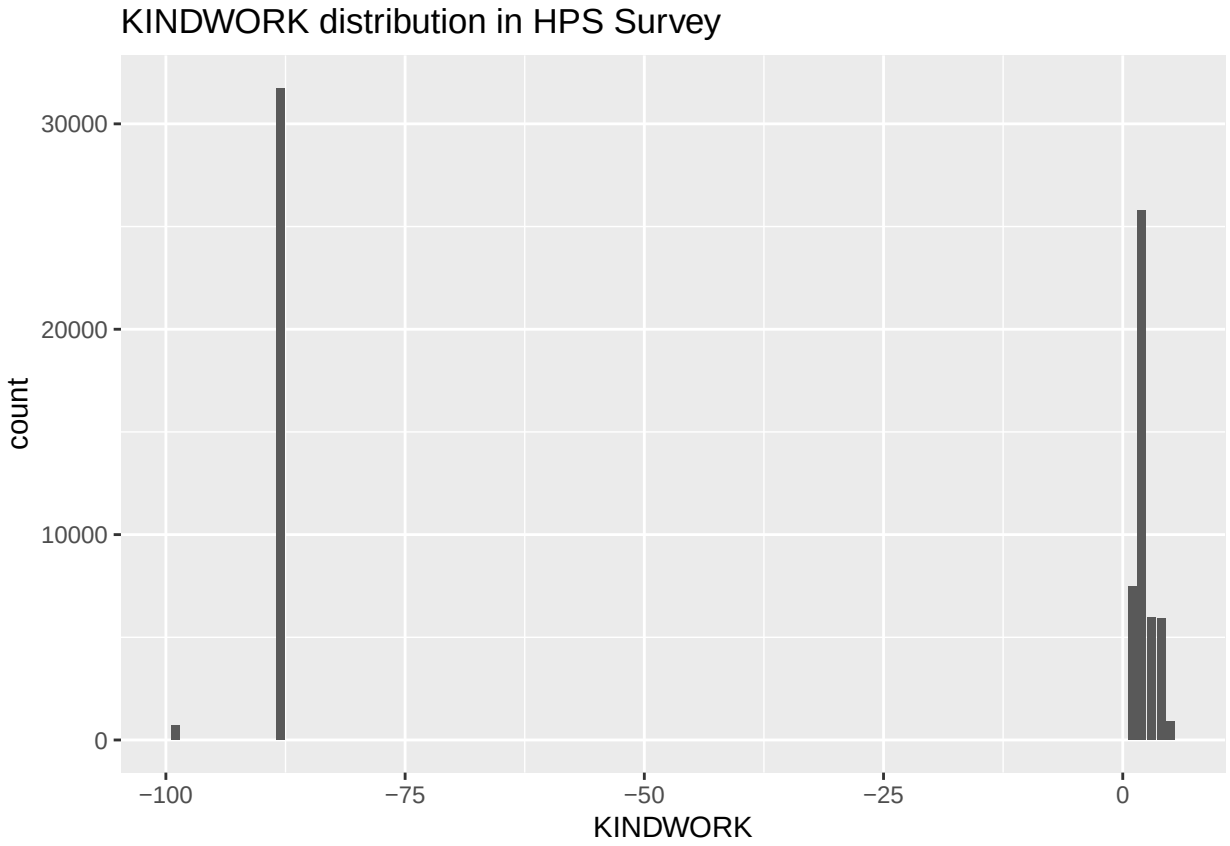

```
## [1] "EXPCTLOSS"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   599
## 2            1  7923
## 3            2 69945
```



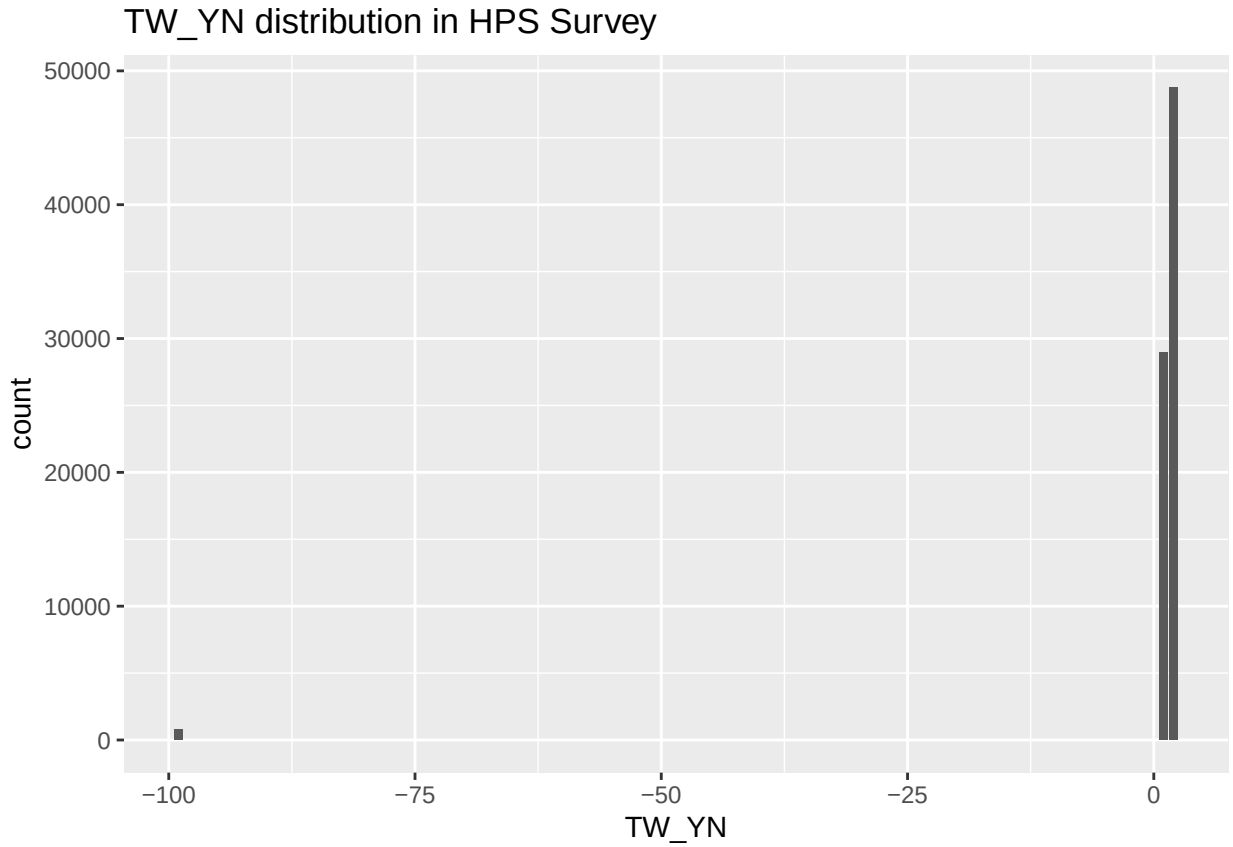

```
## [1] "ANYWORK"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   552
## 2            1 46721
## 3            2 31194
```



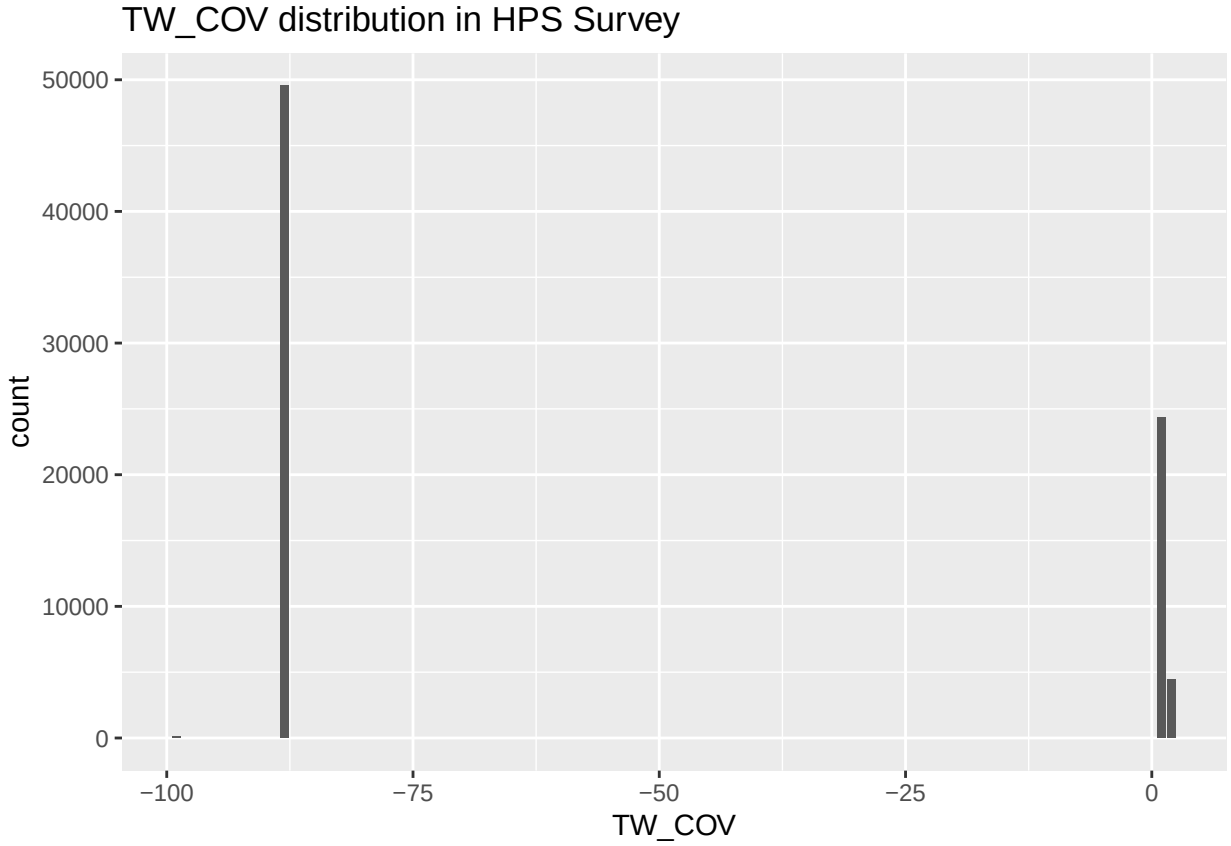

```
## [1] "KINDWORK"
## # A tibble: 7 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   703
## 2          -88 31746
## 3            1  7450
## 4            2 25801
## 5            3  5975
## 6            4  5895
## 7            5   897
```



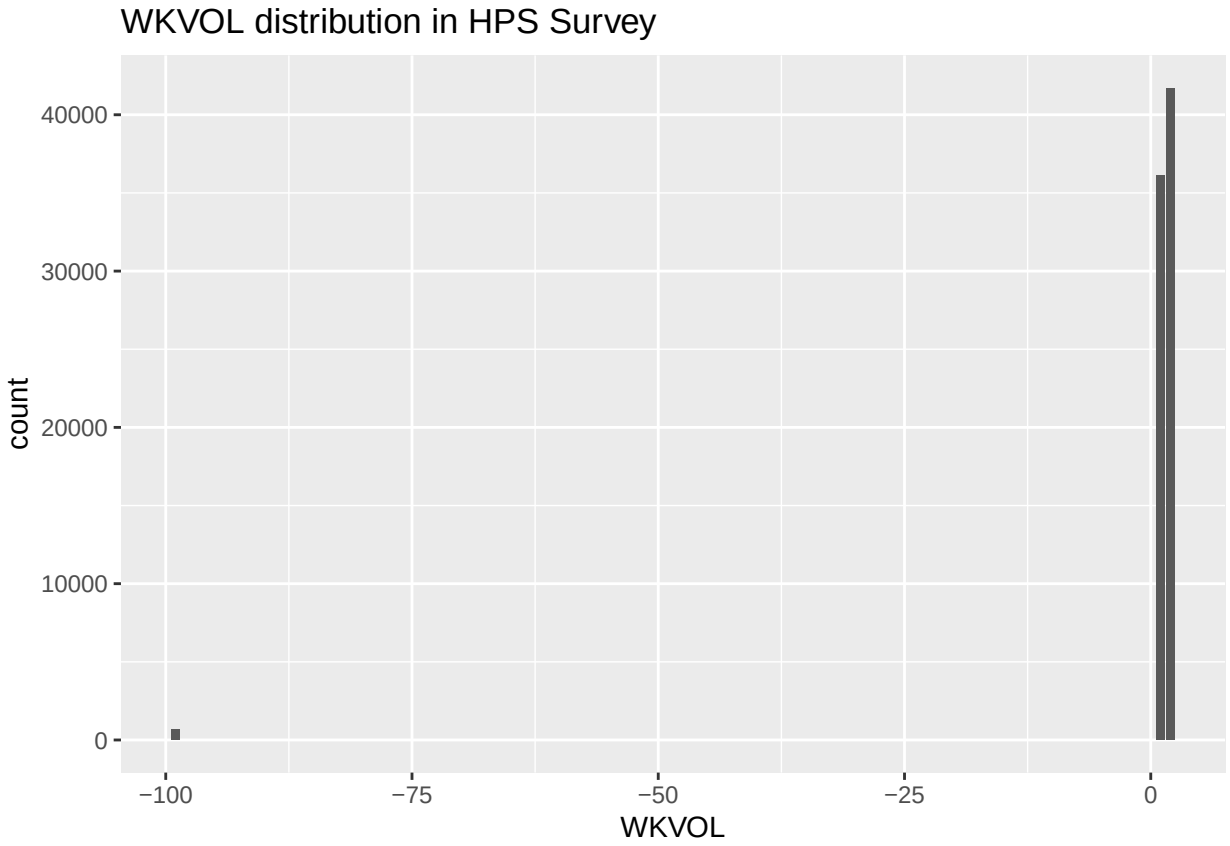

```
## [1] "TW_YN"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   807
## 2            1 28941
## 3            2 48719
```



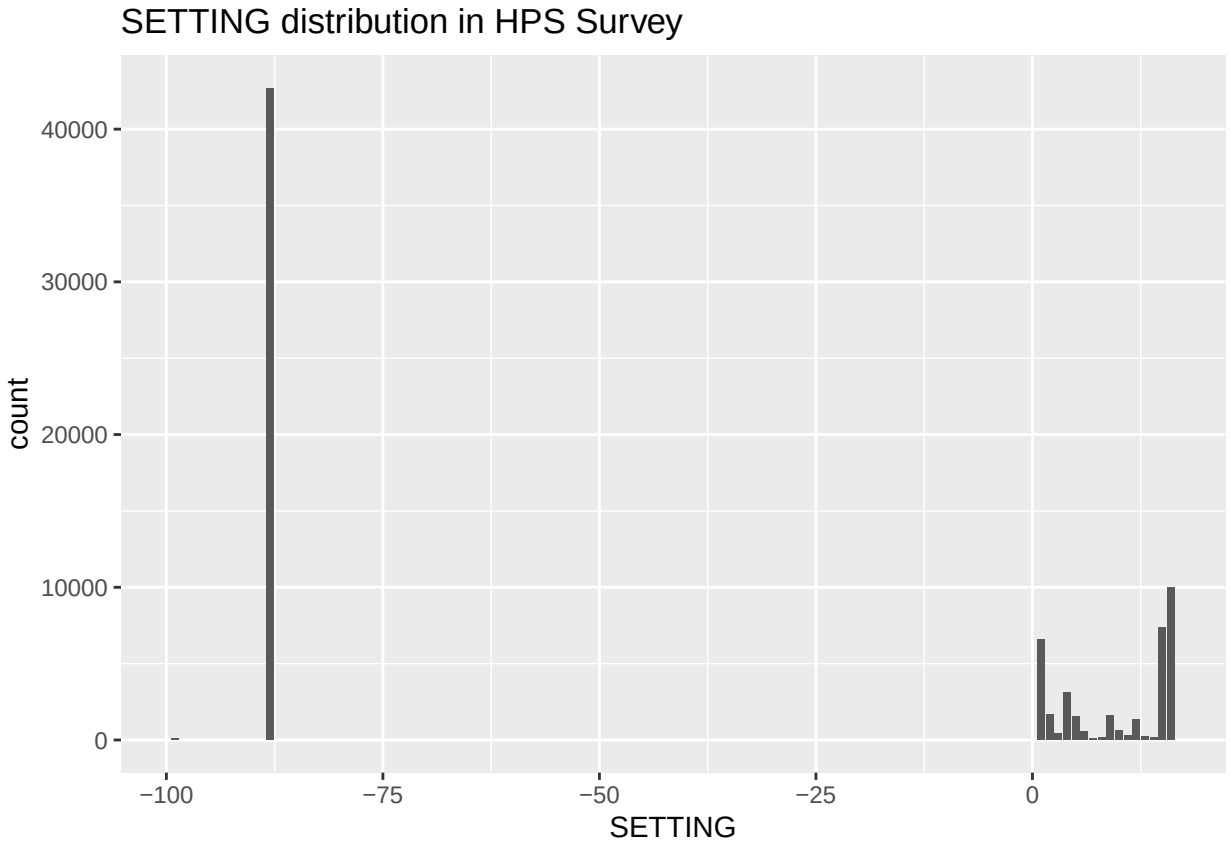

```
## [1] "TW_COV"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99    83
## 2          -88 49526
## 3            1 24381
## 4            2  4477
```



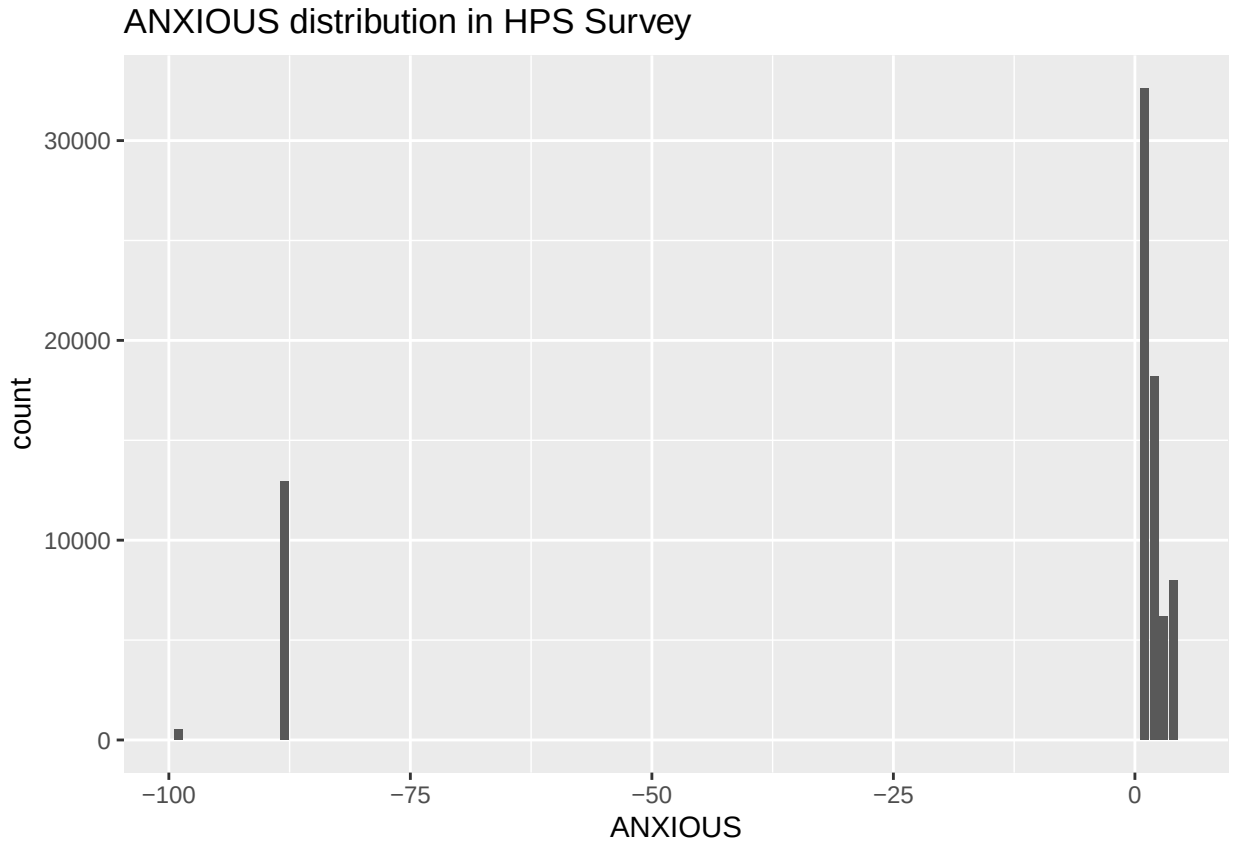

```
## [1] "WKVOL"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   645
## 2            1 36110
## 3            2 41712
```



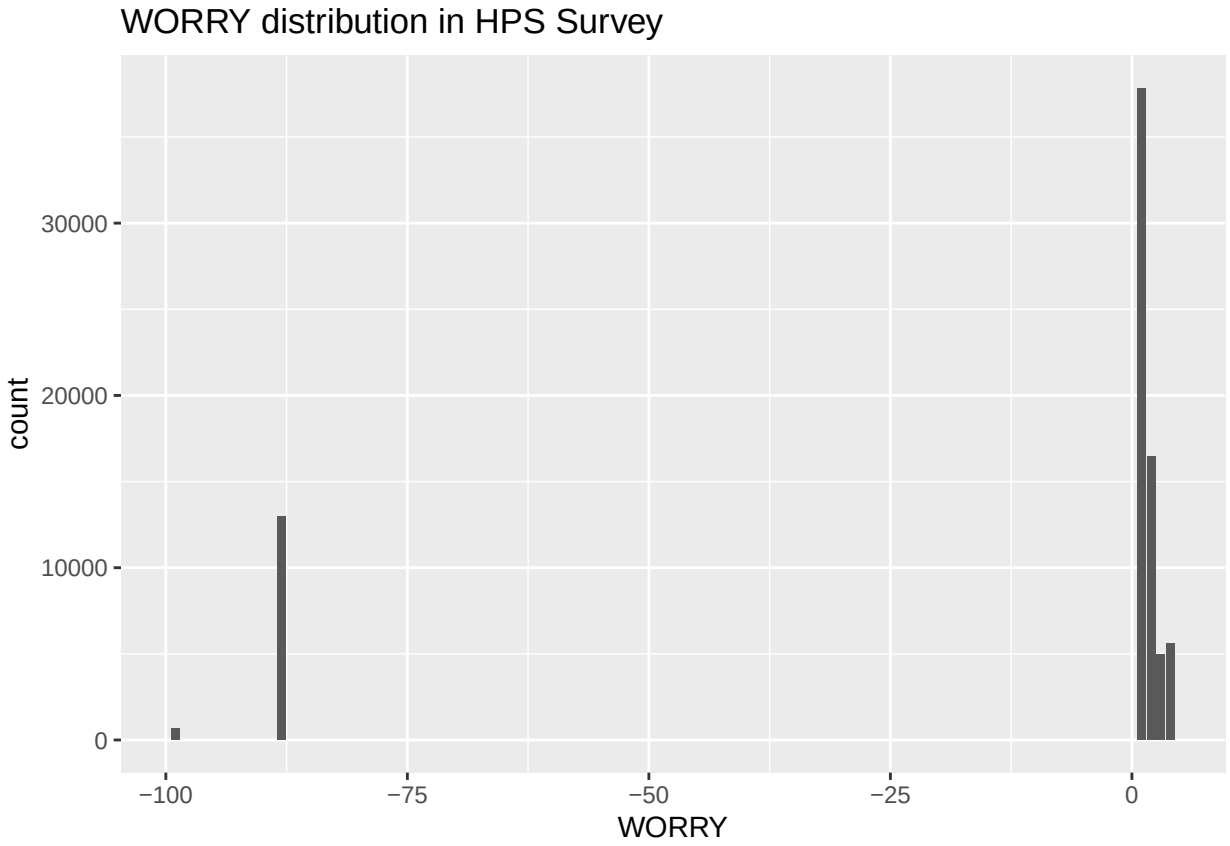

```
## [1] "SETTING"
## # A tibble: 18 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1          -99    84
##  2          -88 42693
##  3            1  6582
##  4            2  1678
##  5            3   438
##  6            4  3081
##  7            5  1527
##  8            6   579
##  9            7    78
## 10            8   144
## 11            9  1587
## 12           10   634
## 13           11   311
## 14           12  1310
## 15           13   255
## 16           14   146
## 17           15  7381
## 18           16  9959
```



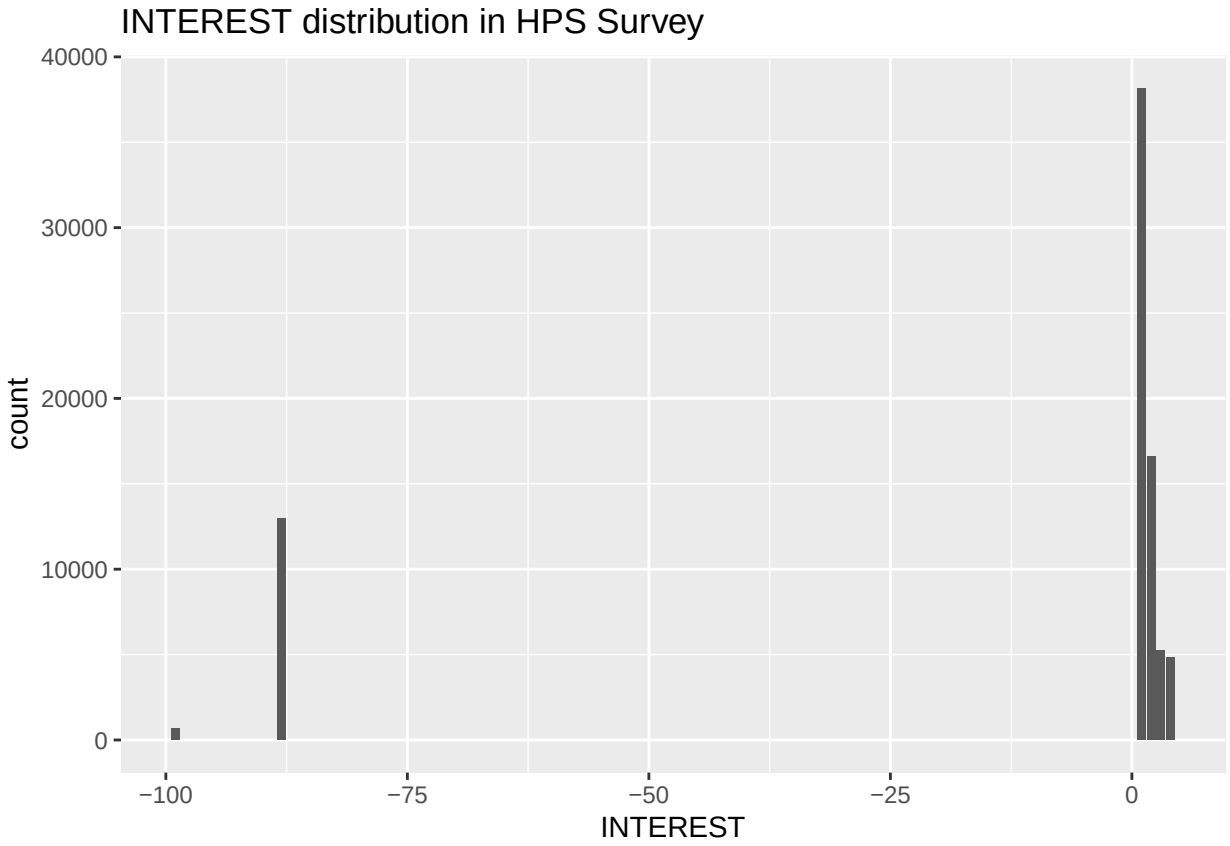

```
## [1] "ANXIOUS"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   540
## 2          -88 12954
## 3            1 32632
## 4            2 18188
## 5            3  6189
## 6            4  7964
```



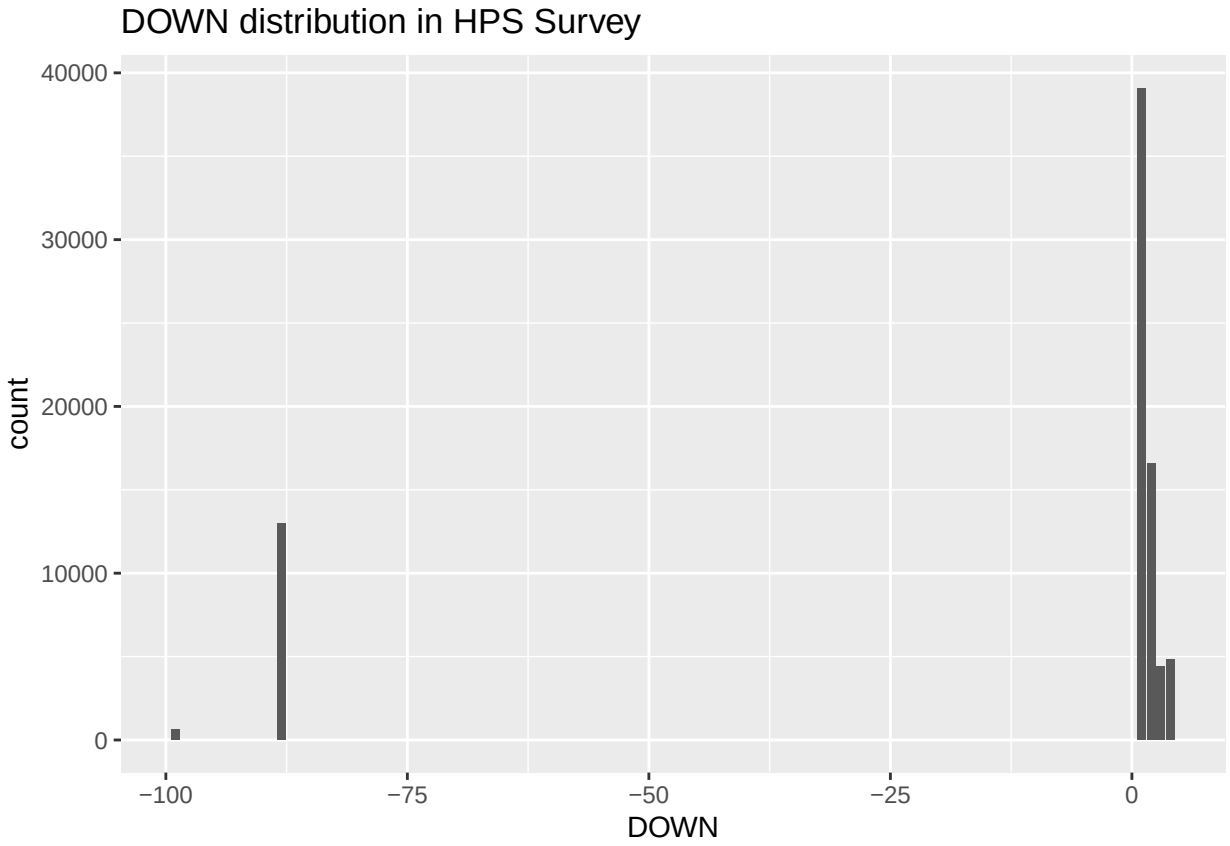

```
## [1] "WORRY"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   648
## 2          -88 12954
## 3            1 37844
## 4            2 16481
## 5            3  4956
## 6            4  5584
```



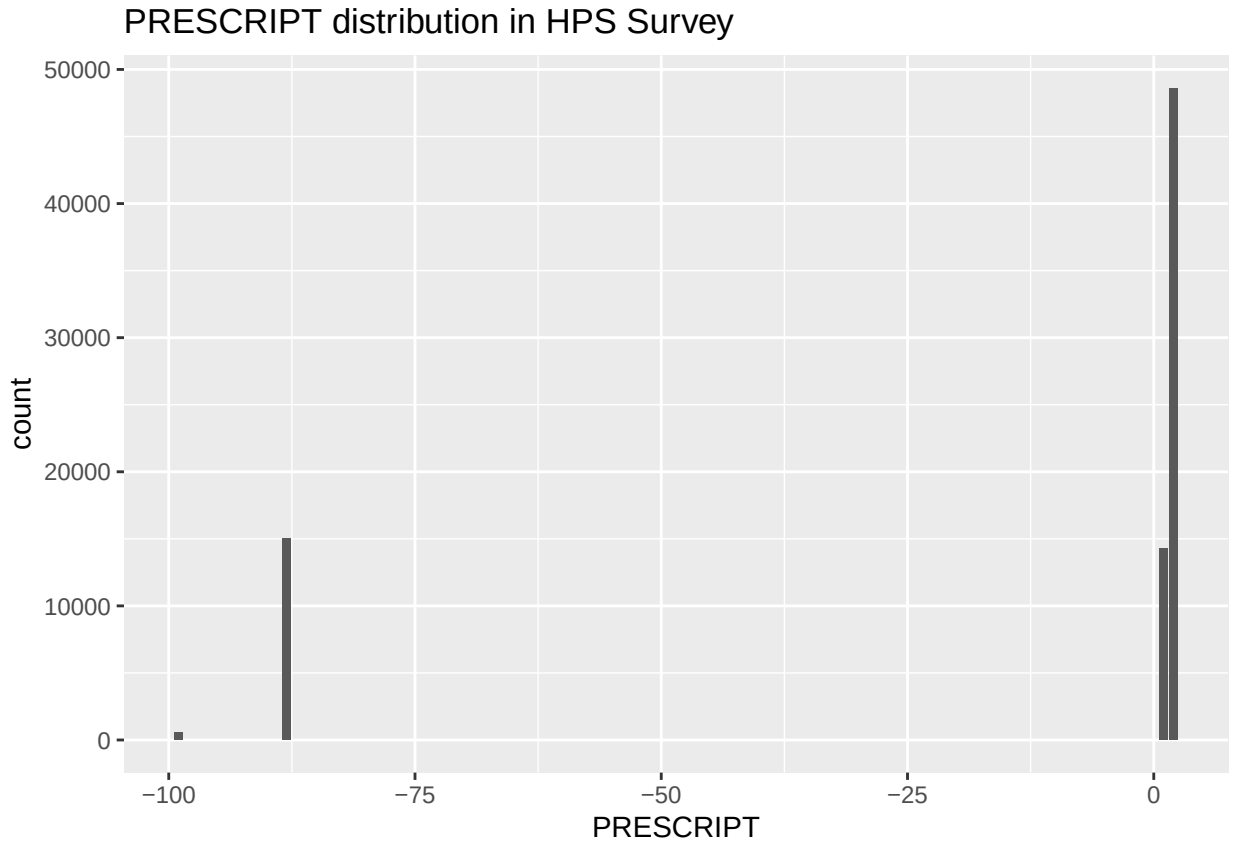

```
## [1] "INTEREST"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   675
## 2          -88 12954
## 3            1 38176
## 4            2 16576
## 5            3  5268
## 6            4  4818
```



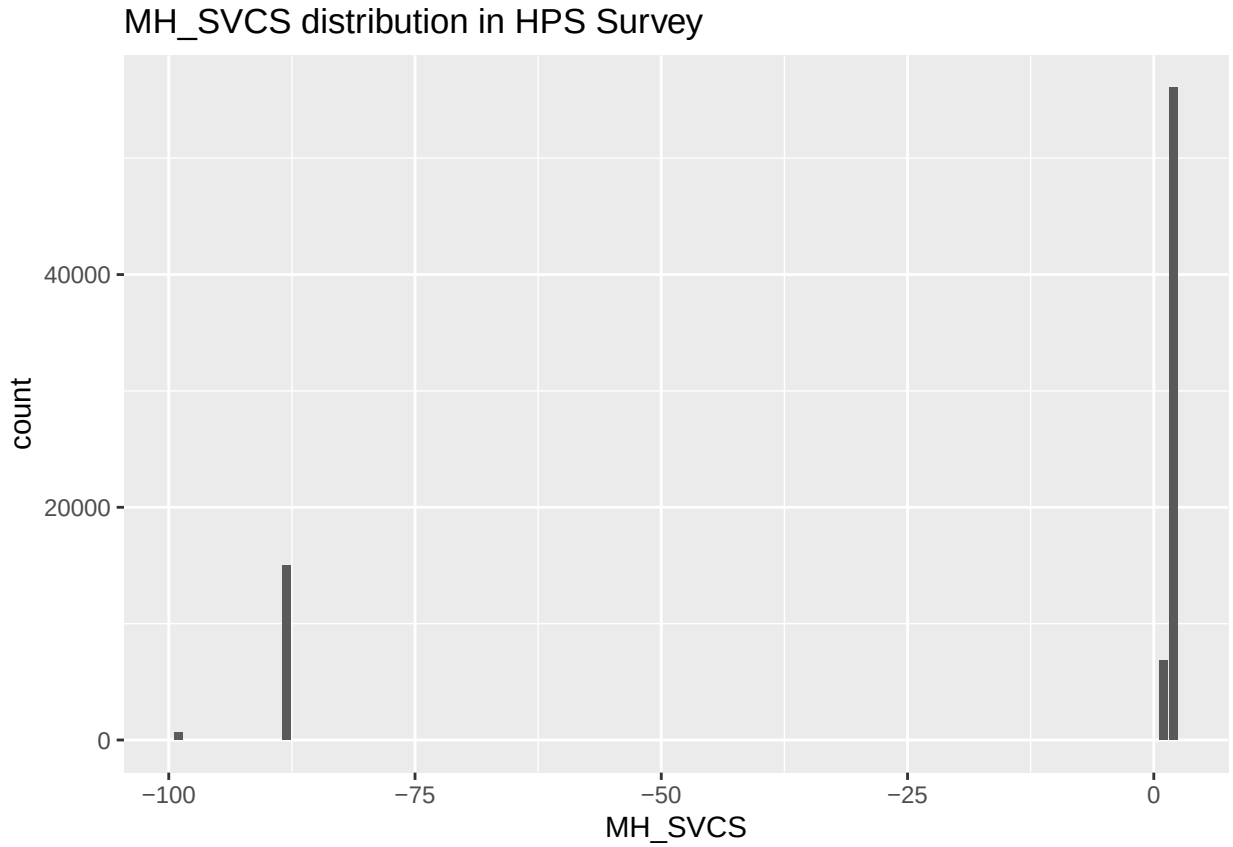

```
## [1] "DOWN"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   654
## 2          -88 12954
## 3            1 39092
## 4            2 16584
## 5            3  4381
## 6            4  4802
```



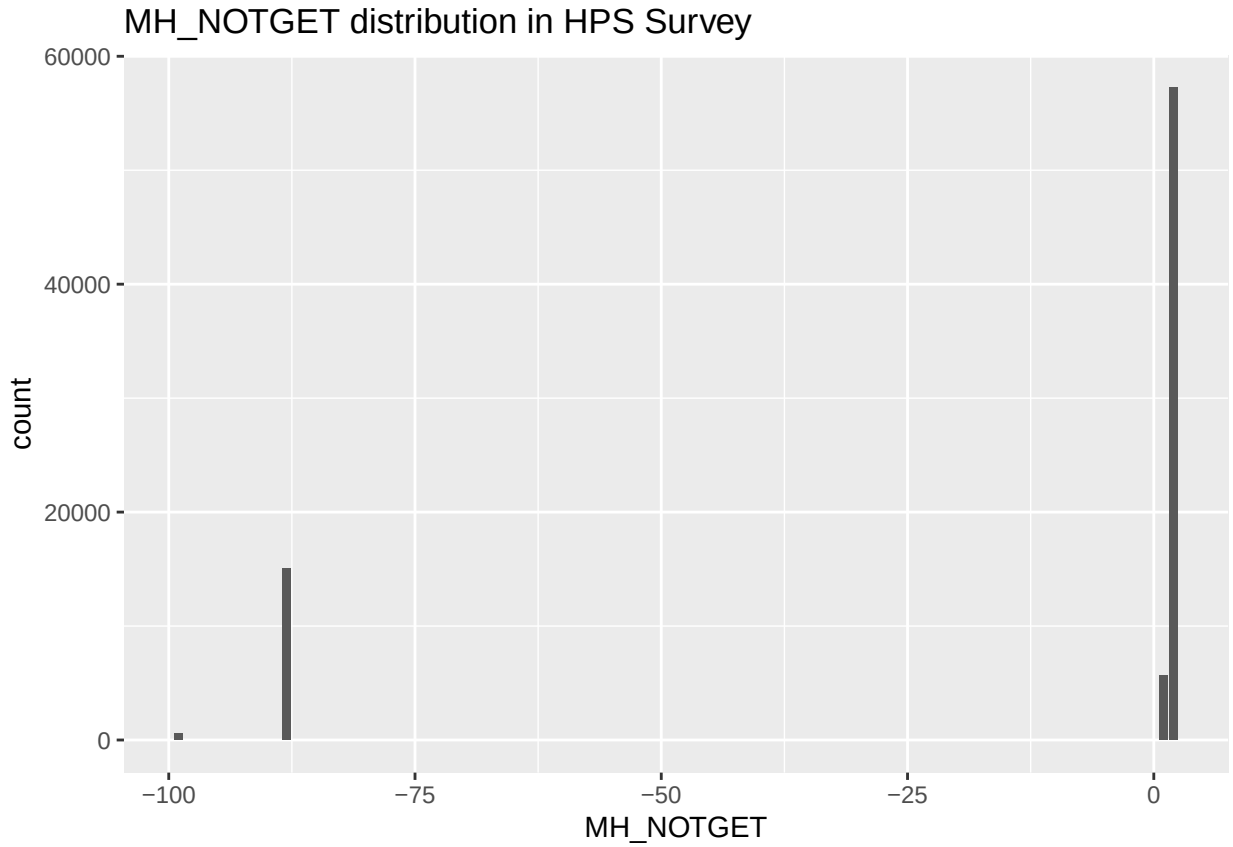

```
## [1] "PRESCRIPT"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   582
## 2          -88 15021
## 3            1 14248
## 4            2 48616
```



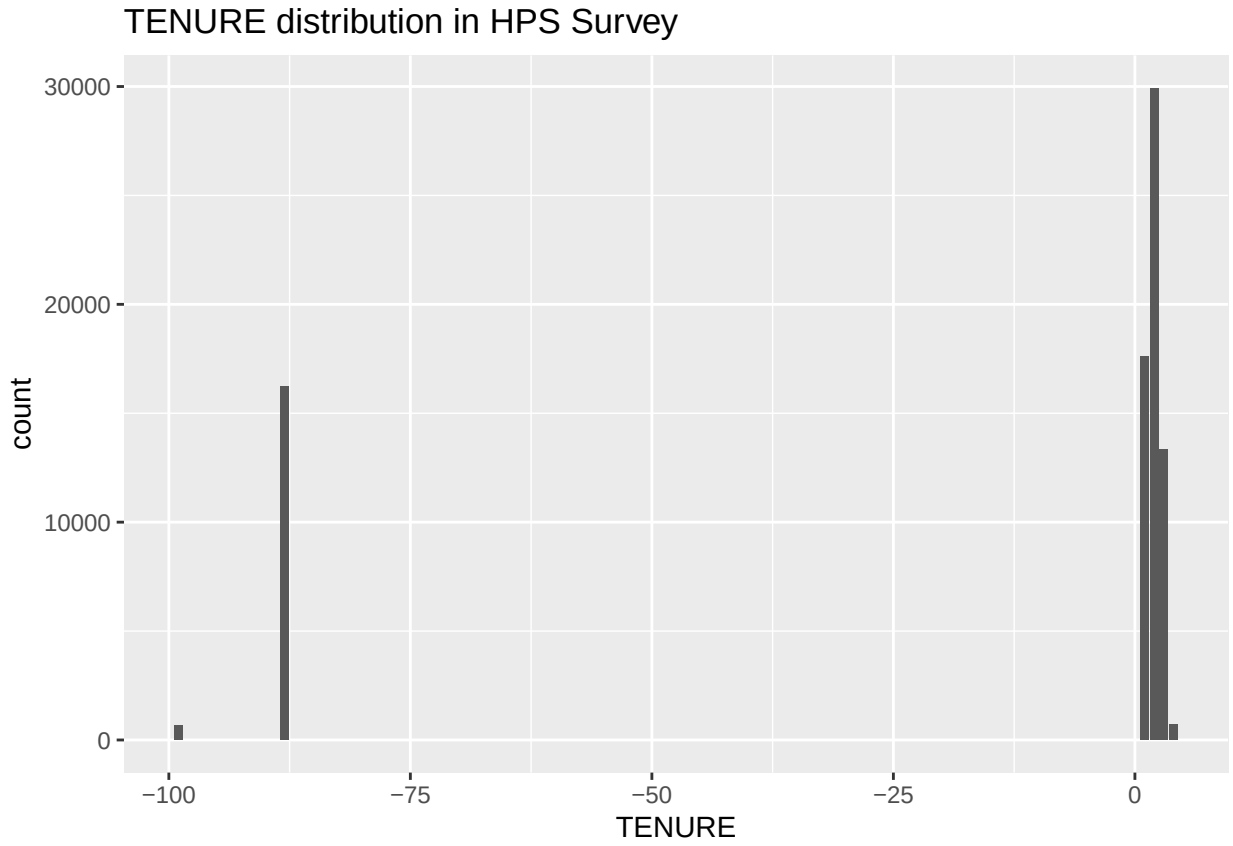

```
## [1] "MH_SVCS"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   610
## 2          -88 15021
## 3            1  6805
## 4            2 56031
```



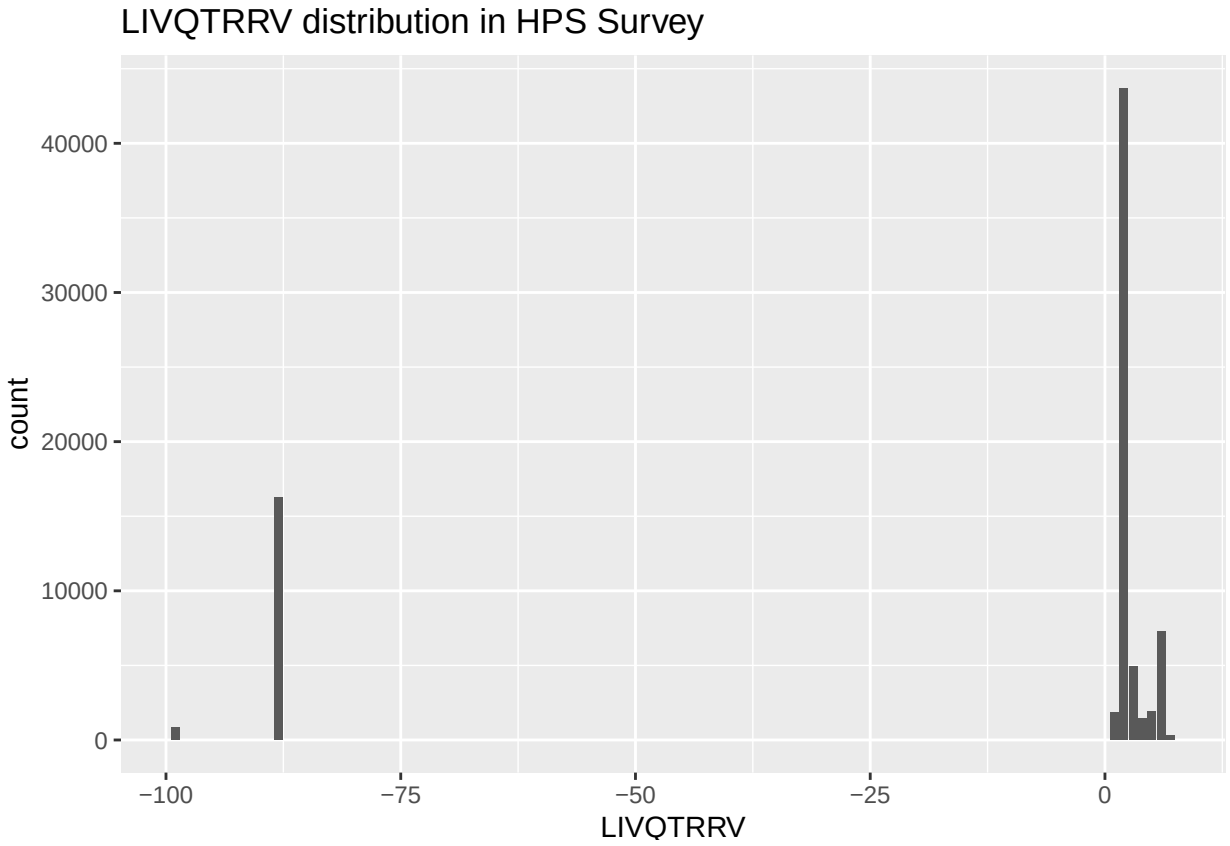

```
## [1] "MH_NOTGET"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   576
## 2          -88 15021
## 3            1  5655
## 4            2 57215
```



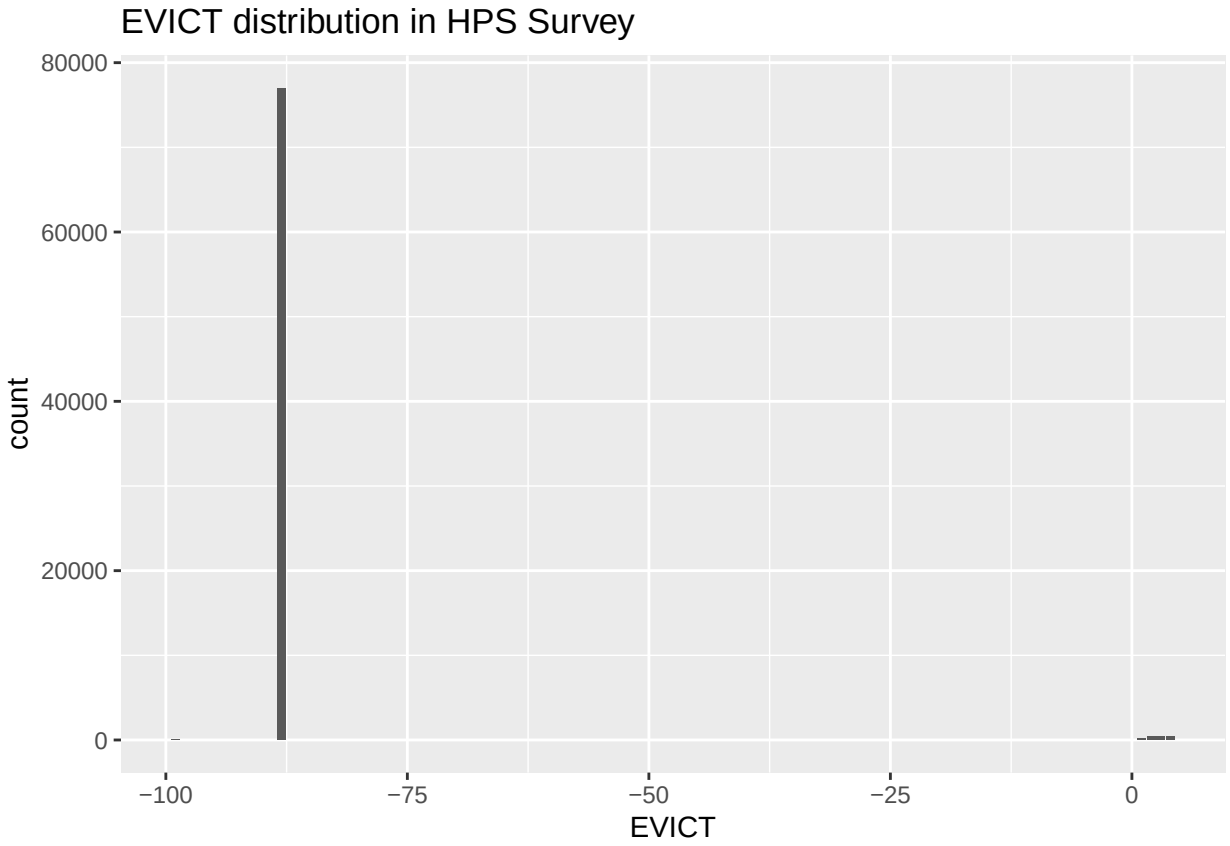

```
## [1] "TENURE"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   673
## 2          -88 16244
## 3            1 17594
## 4            2 29932
## 5            3 13324
## 6            4   700
```



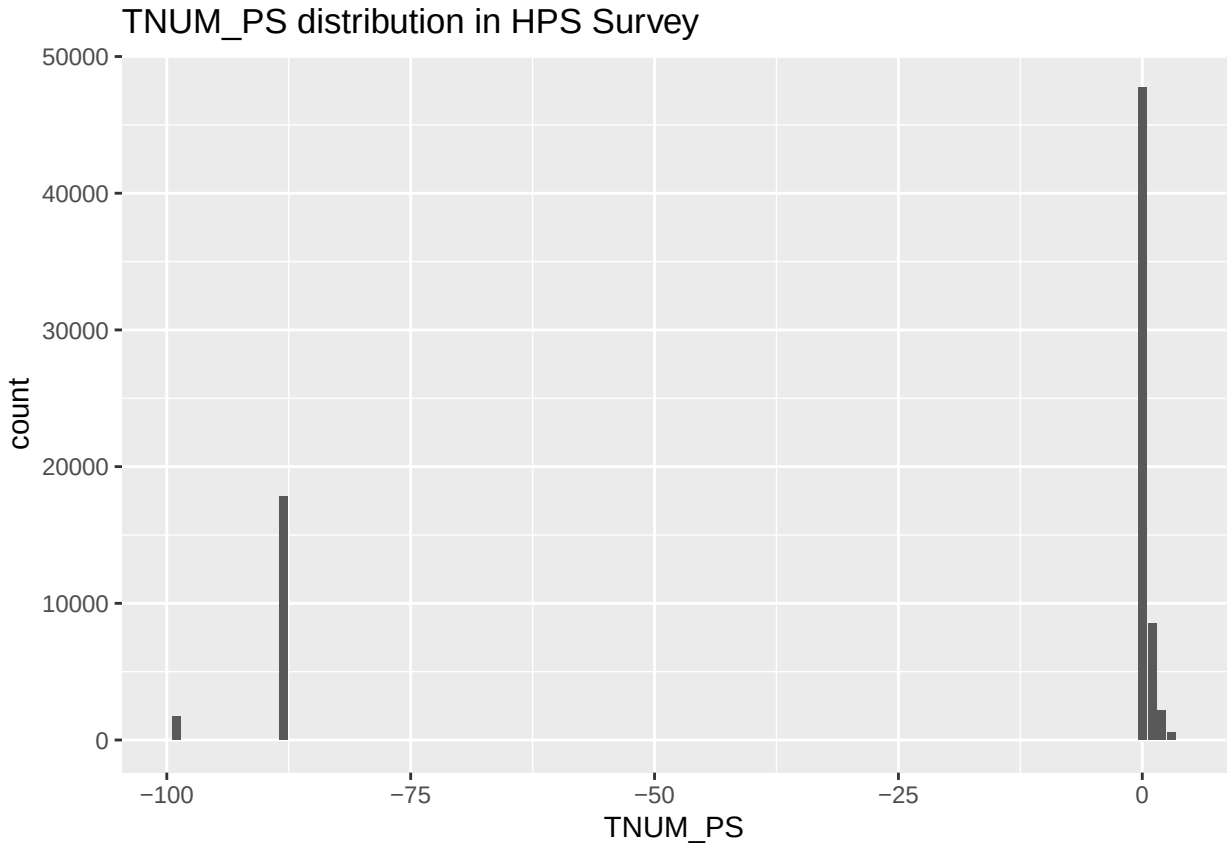

```
## [1] "LIVQTRRV"
## # A tibble: 9 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99   841
## 2          -88 16244
## 3            1  1843
## 4            2 43708
## 5            3  4938
## 6            4  1430
## 7            5  1933
## 8            6  7247
## 9            7   283
```



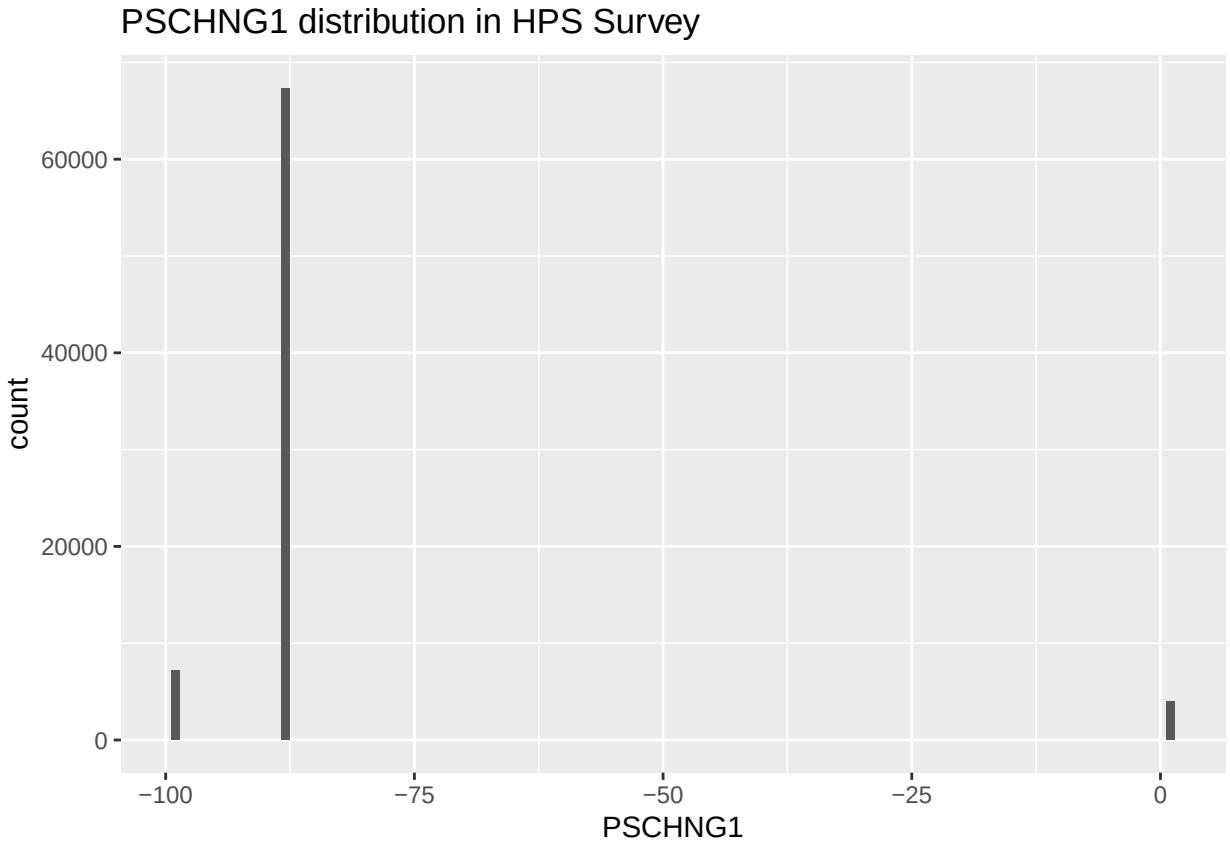

```
## [1] "EVICT"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99     6
## 2          -88 77009
## 3            1   219
## 4            2   369
## 5            3   446
## 6            4   418
```



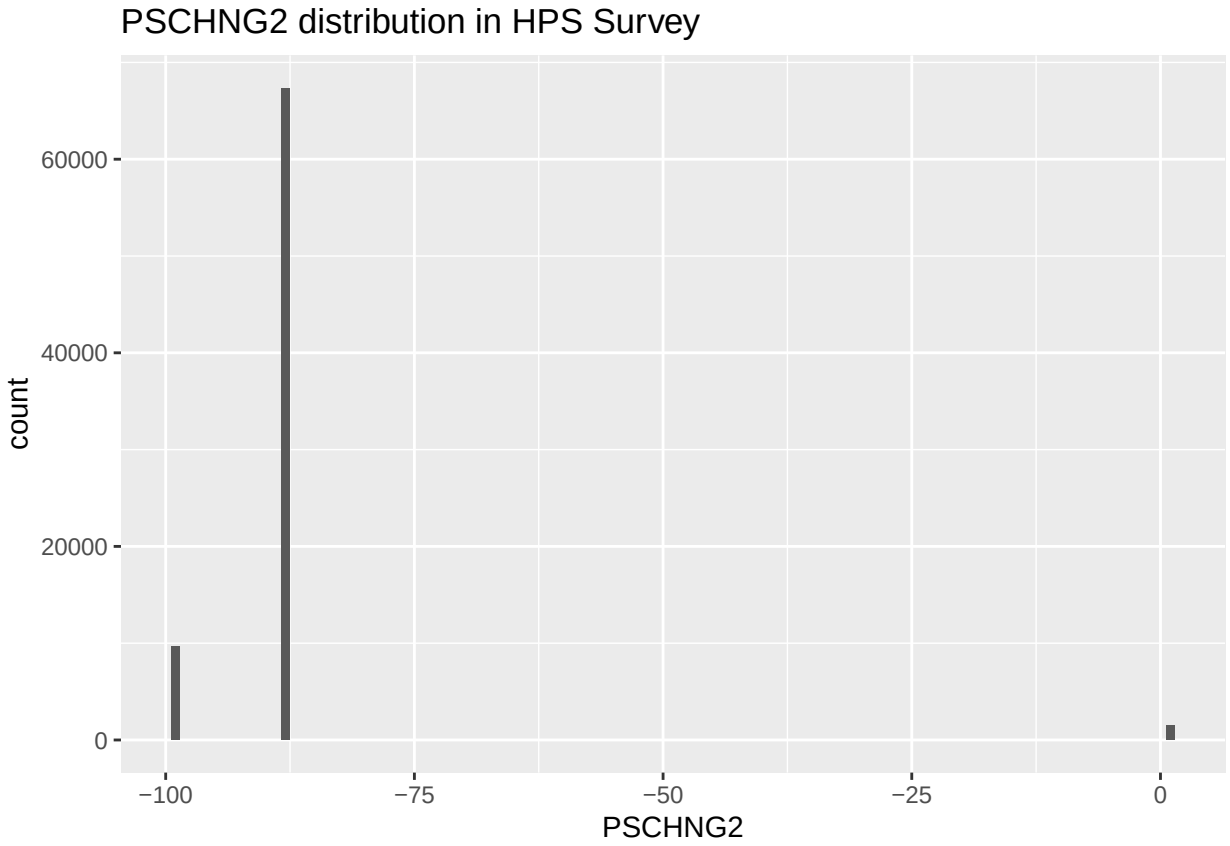

```
## [1] "TNUM_PS"
## # A tibble: 6 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  1691
## 2          -88 17846
## 3            0 47697
## 4            1  8510
## 5            2  2151
## 6            3   572
```



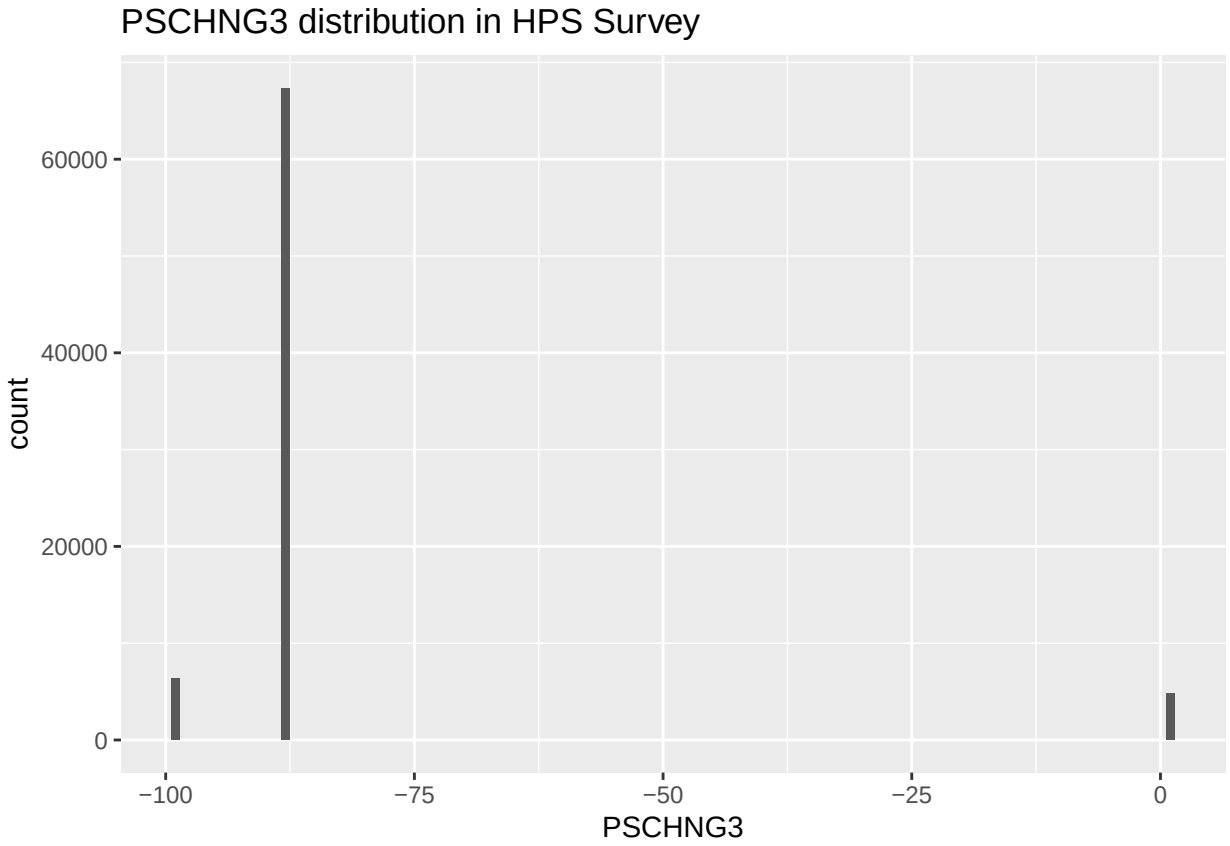

```
## [1] "PSCHNG1"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  7136
## 2          -88 67357
## 3            1  3974
```



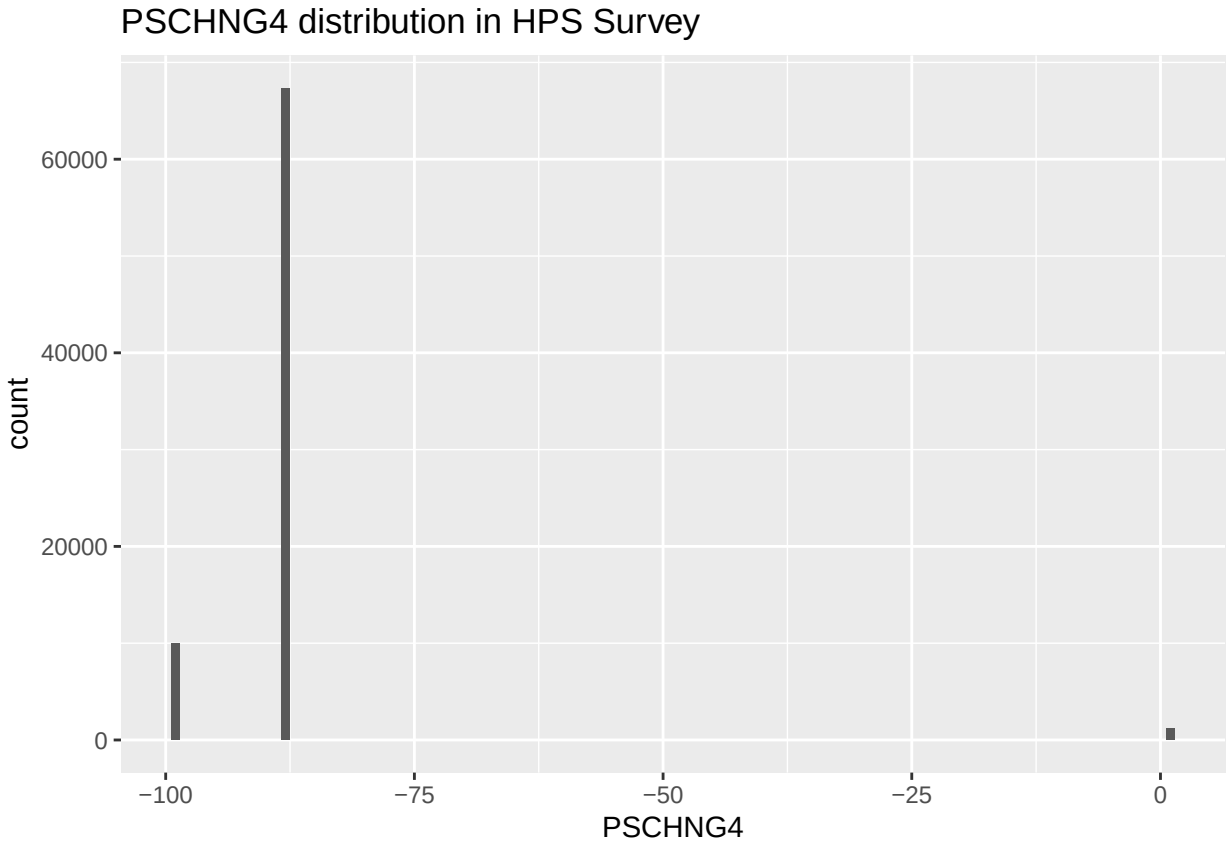

```
## [1] "PSCHNG2"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  9664
## 2          -88 67357
## 3            1  1446
```



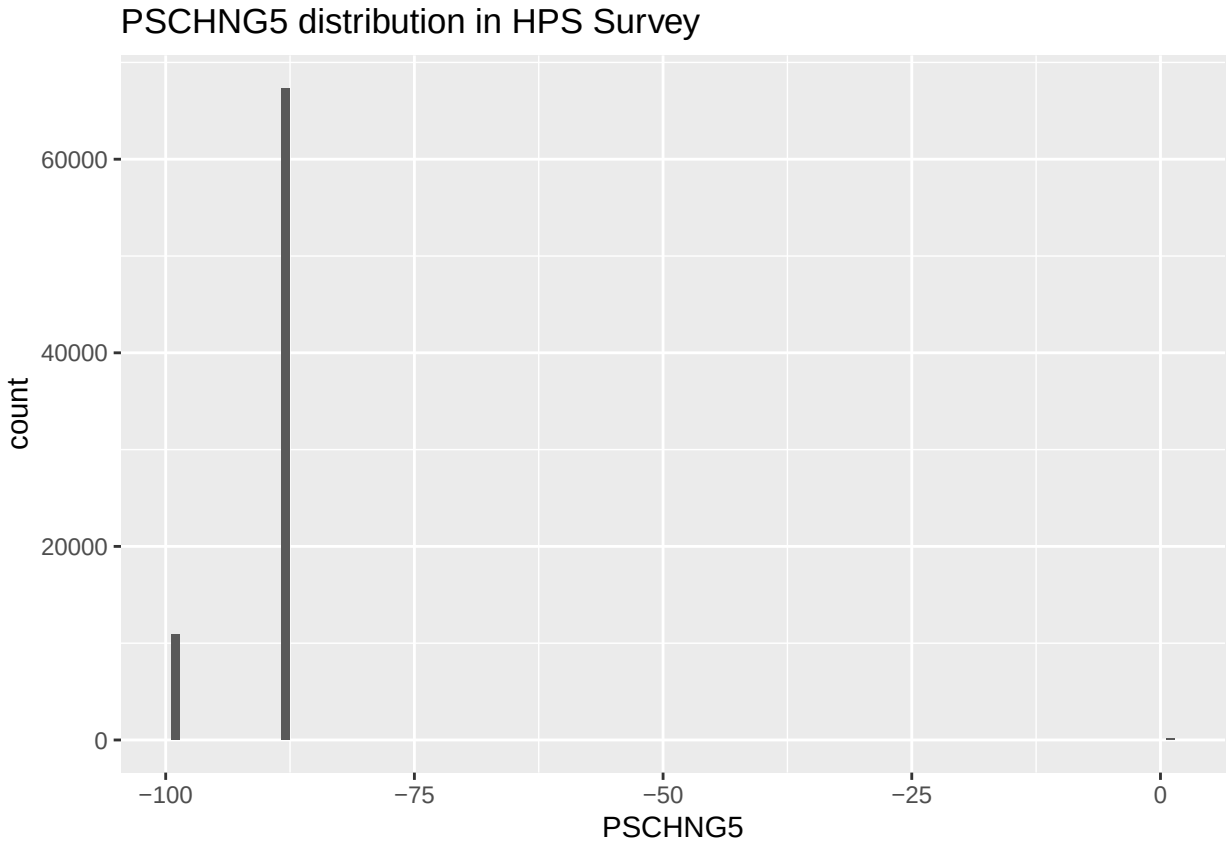

```
## [1] "PSCHNG3"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  6335
## 2          -88 67357
## 3            1  4775
```



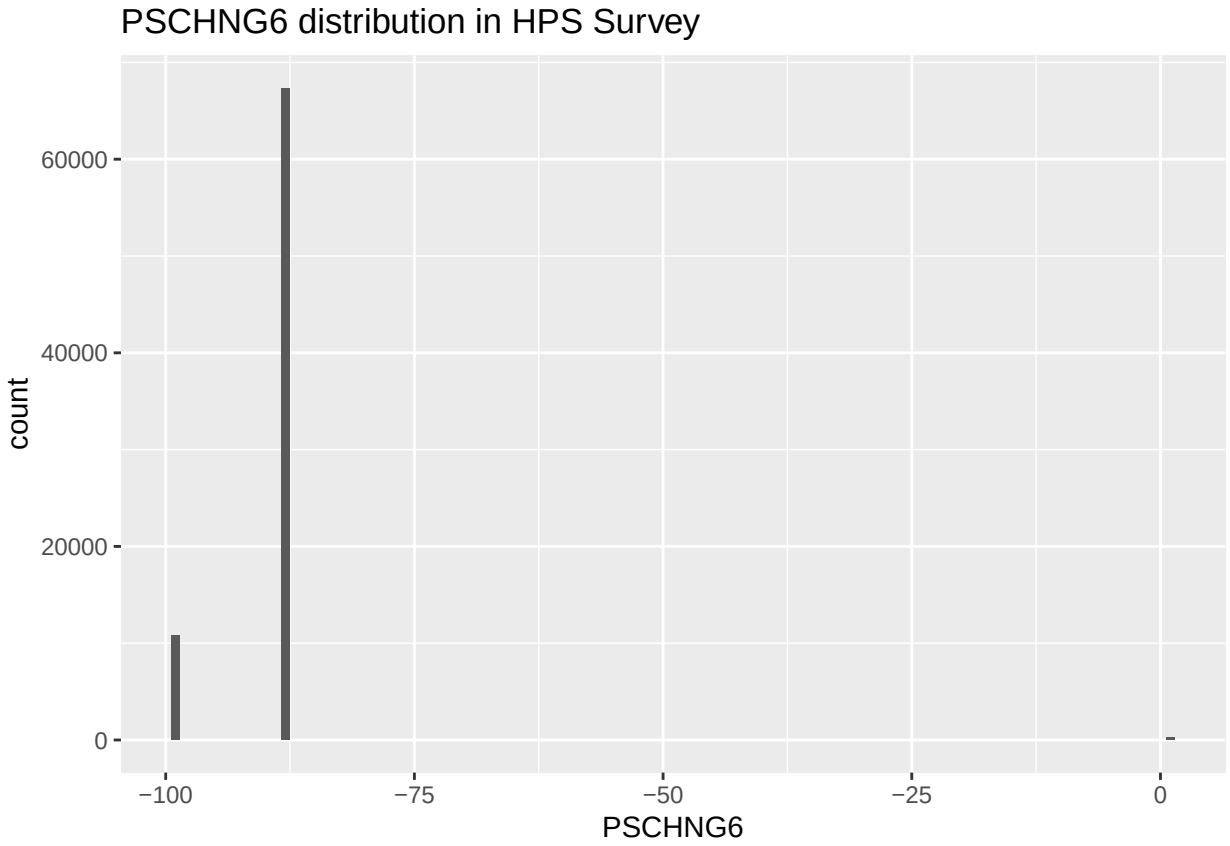

```
## [1] "PSCHNG4"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  9935
## 2          -88 67357
## 3            1  1175
```



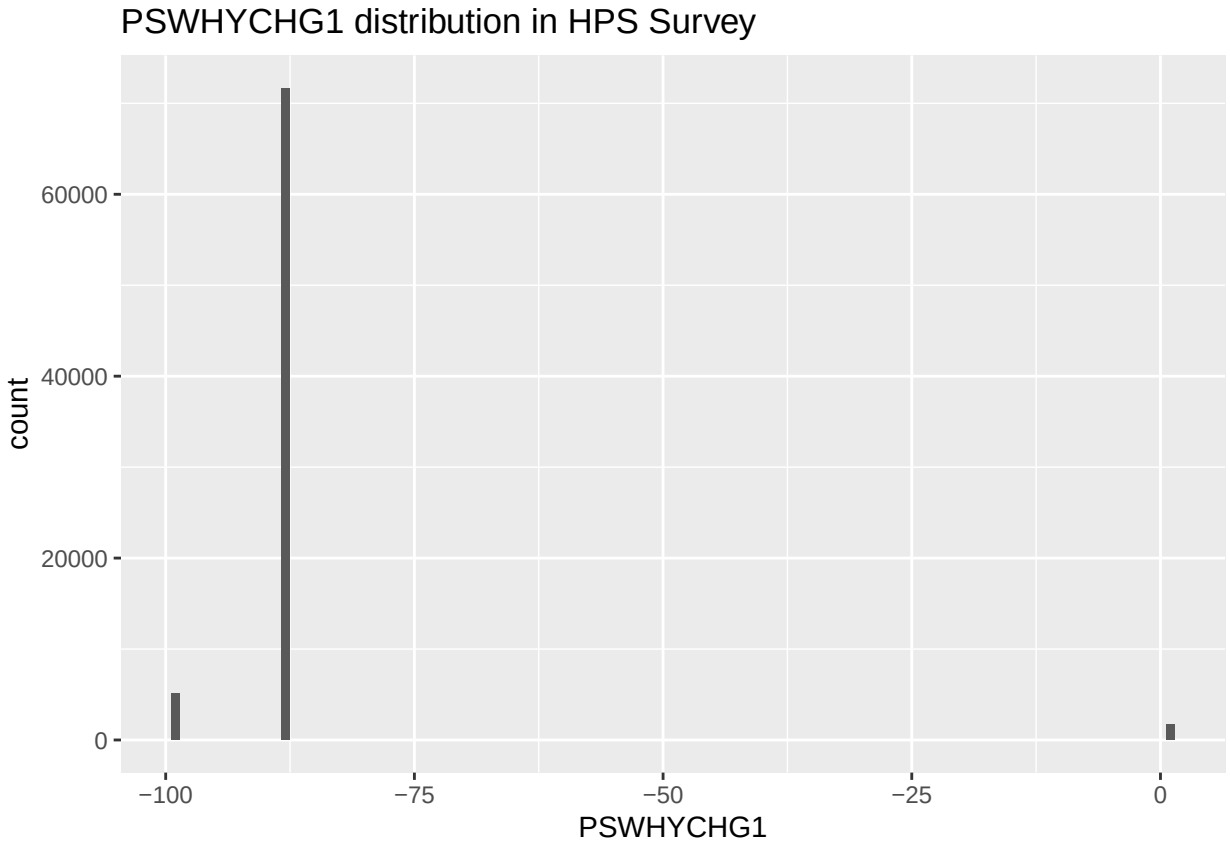

```
## [1] "PSCHNG5"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99 10919
## 2          -88 67357
## 3            1   191
```



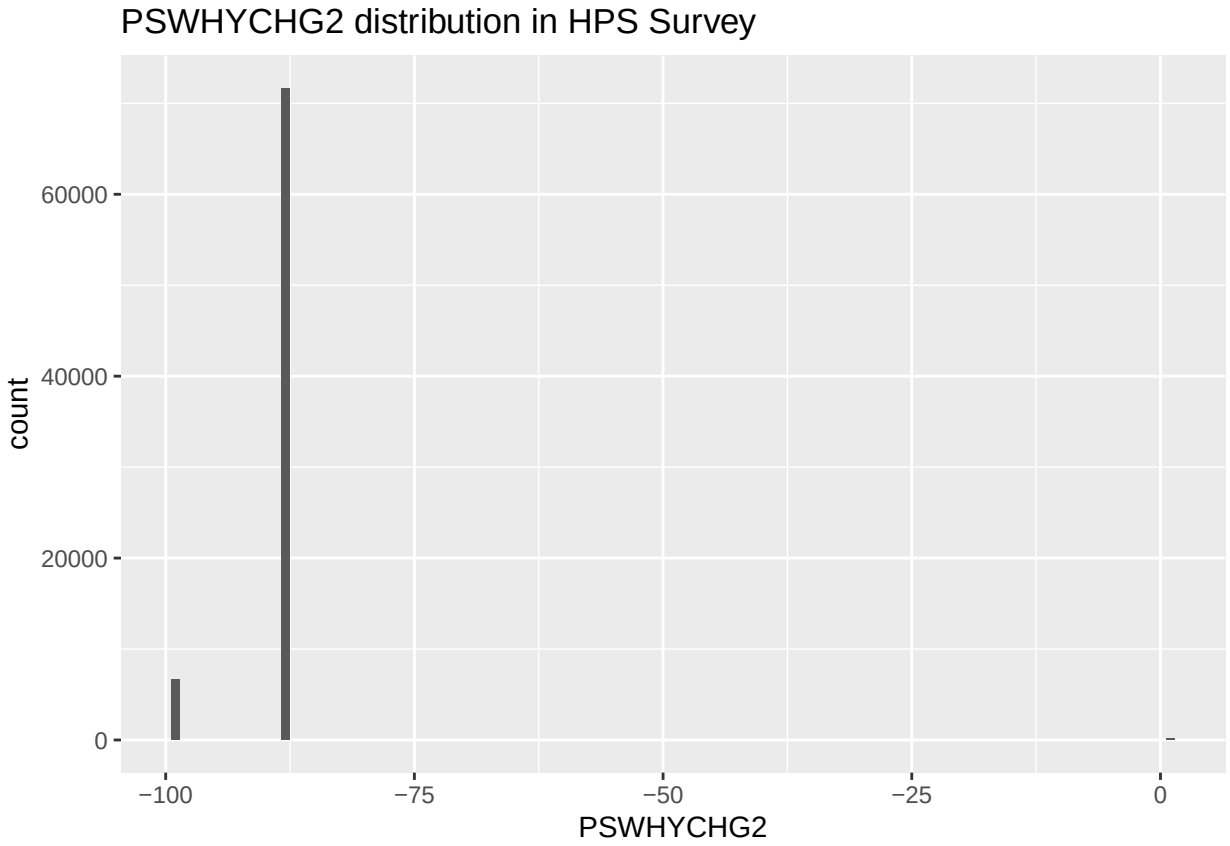

```
## [1] "PSCHNG6"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99 10807
## 2          -88 67357
## 3            1   303
```



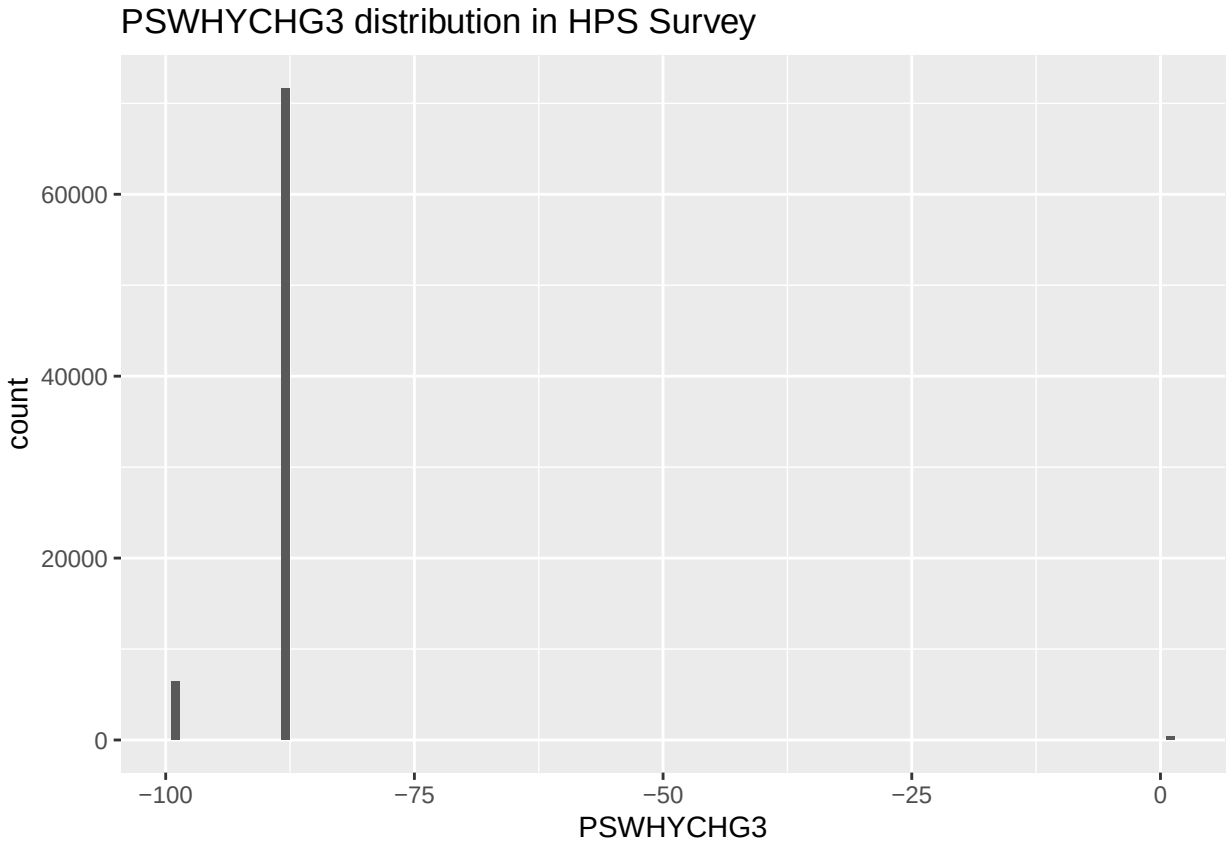

```
## [1] "PSWHYCHG1"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  5132
## 2          -88 71685
## 3            1  1650
```



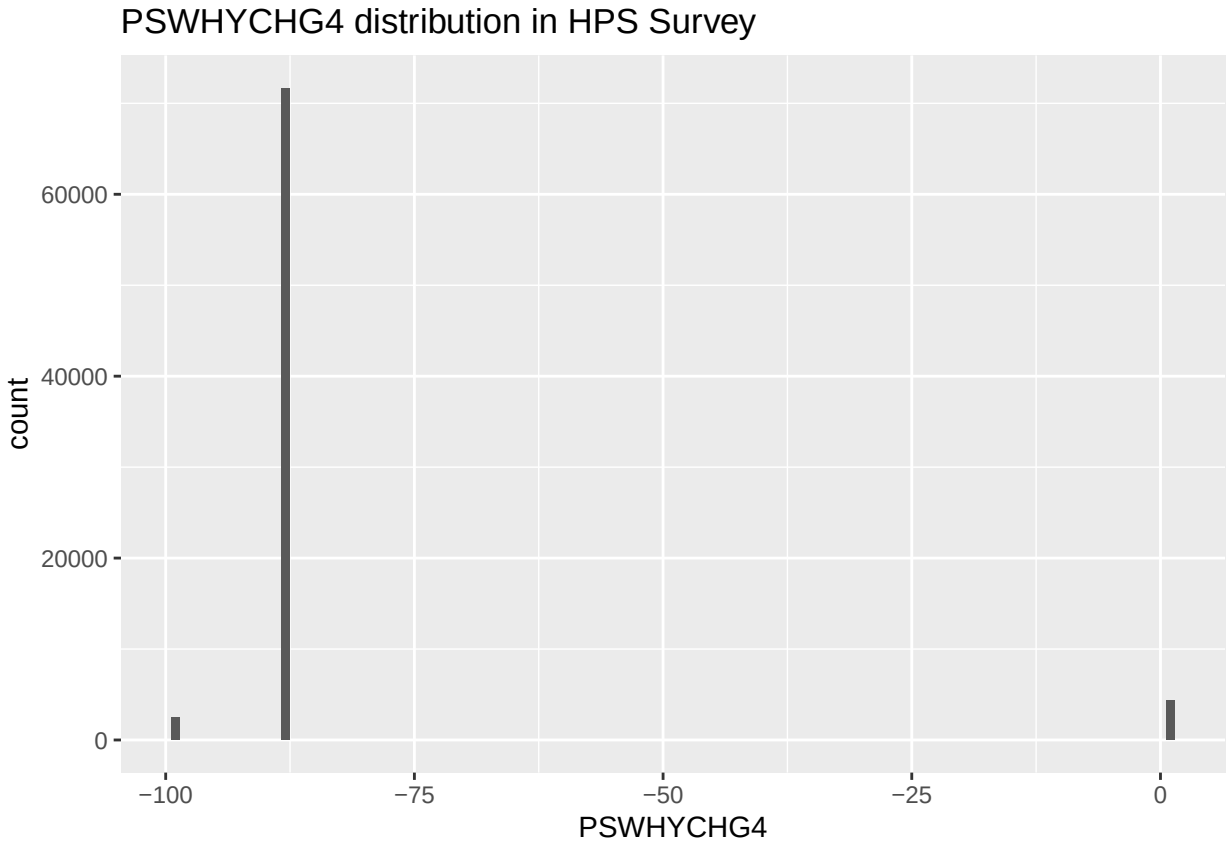

```
## [1] "PSWHYCHG2"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  6660
## 2          -88 71685
## 3            1   122
```



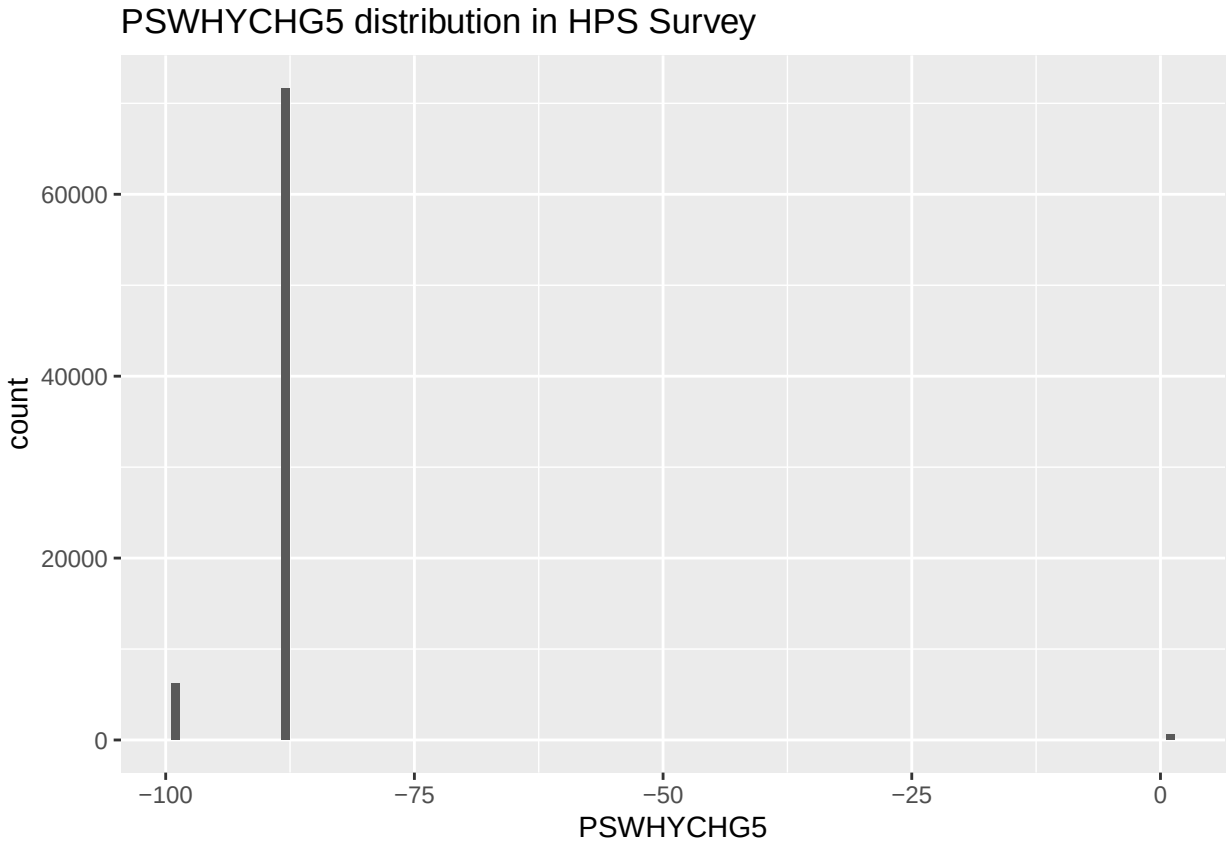

```
## [1] "PSWHYCHG3"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  6445
## 2          -88 71685
## 3            1   337
```



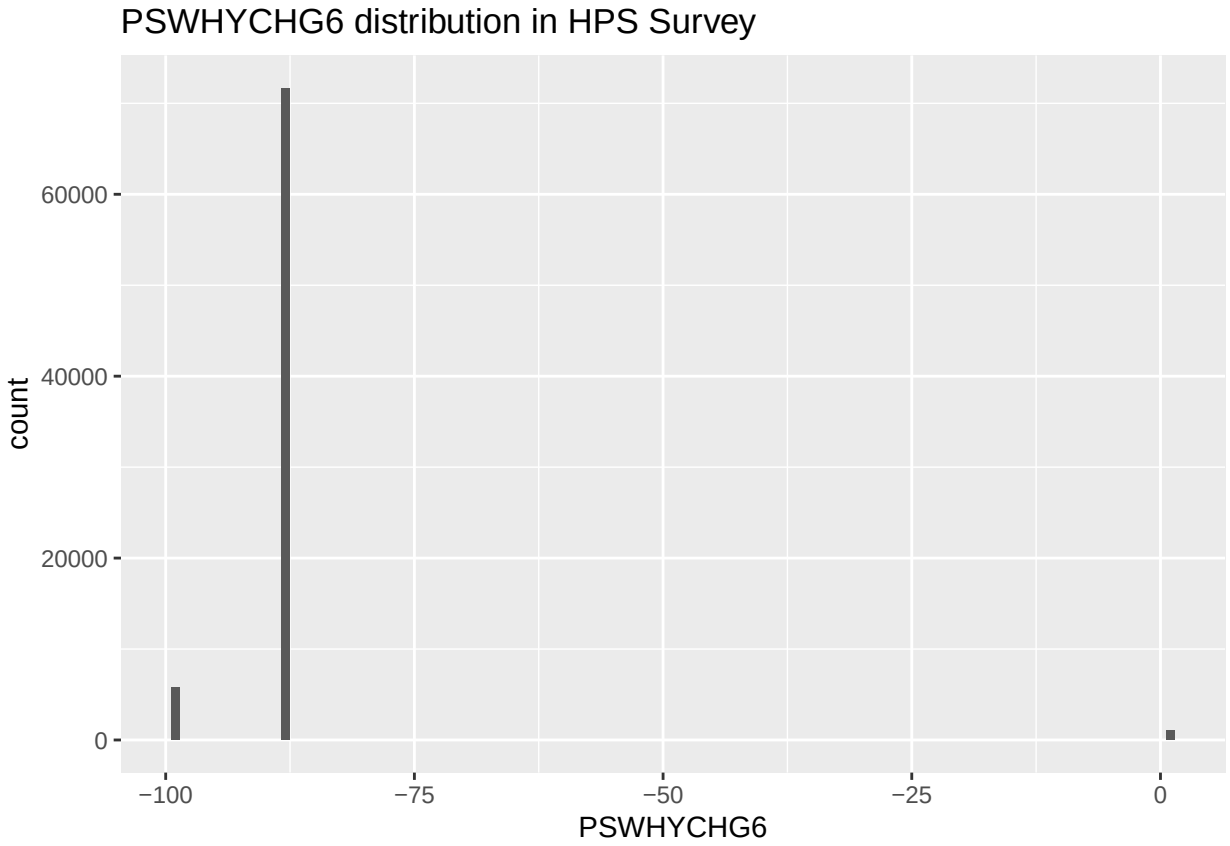

```
## [1] "PSWHYCHG4"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  2451
## 2          -88 71685
## 3            1  4331
```



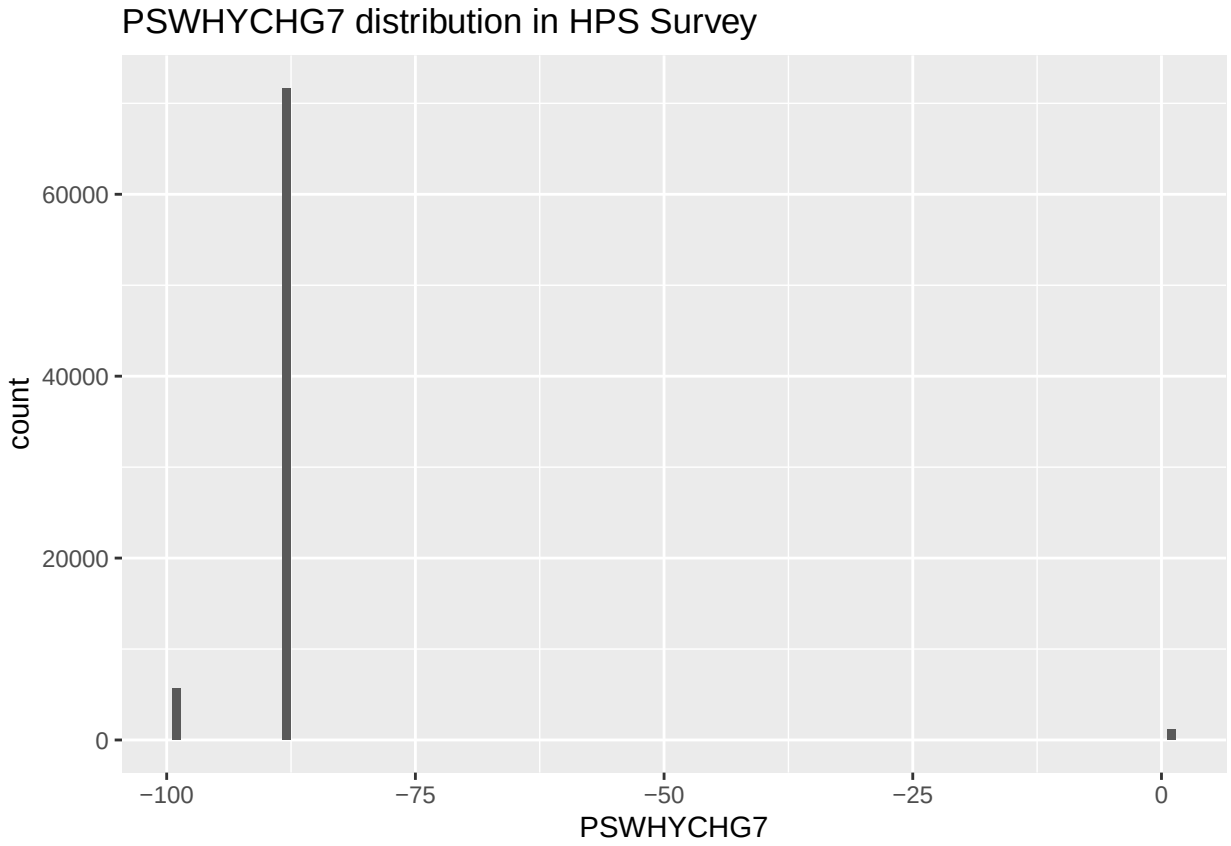

```
## [1] "PSWHYCHG5"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  6172
## 2          -88 71685
## 3            1   610
```



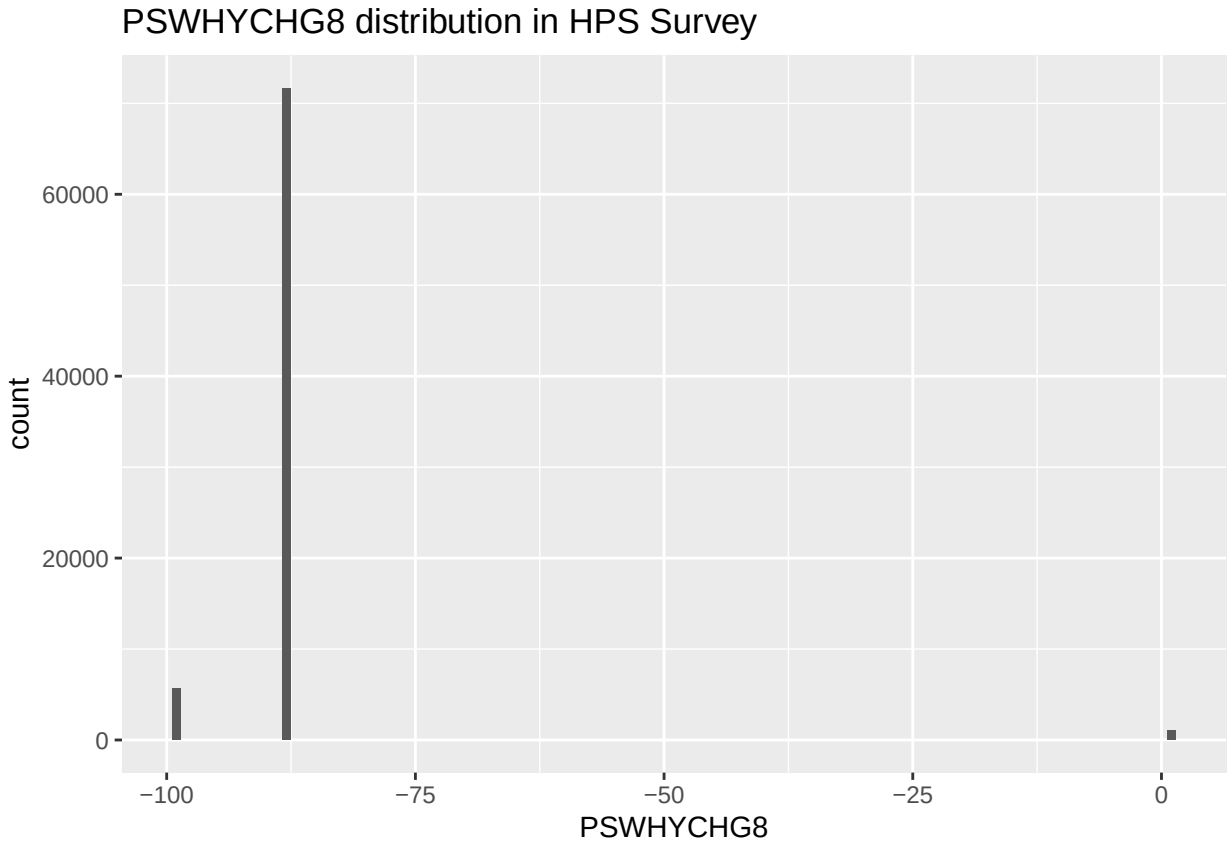

```
## [1] "PSWHYCHG6"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  5727
## 2          -88 71685
## 3            1  1055
```



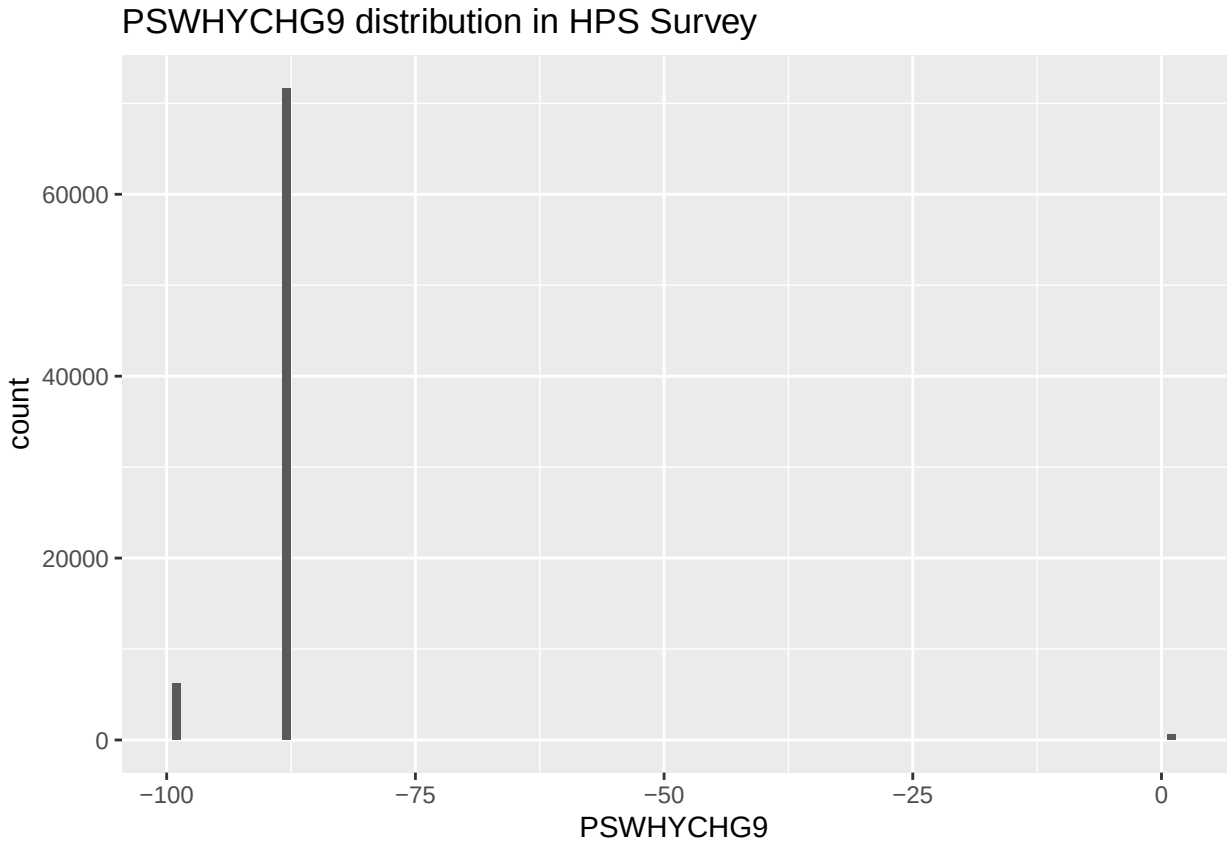

```
## [1] "PSWHYCHG7"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  5674
## 2          -88 71685
## 3            1  1108
```



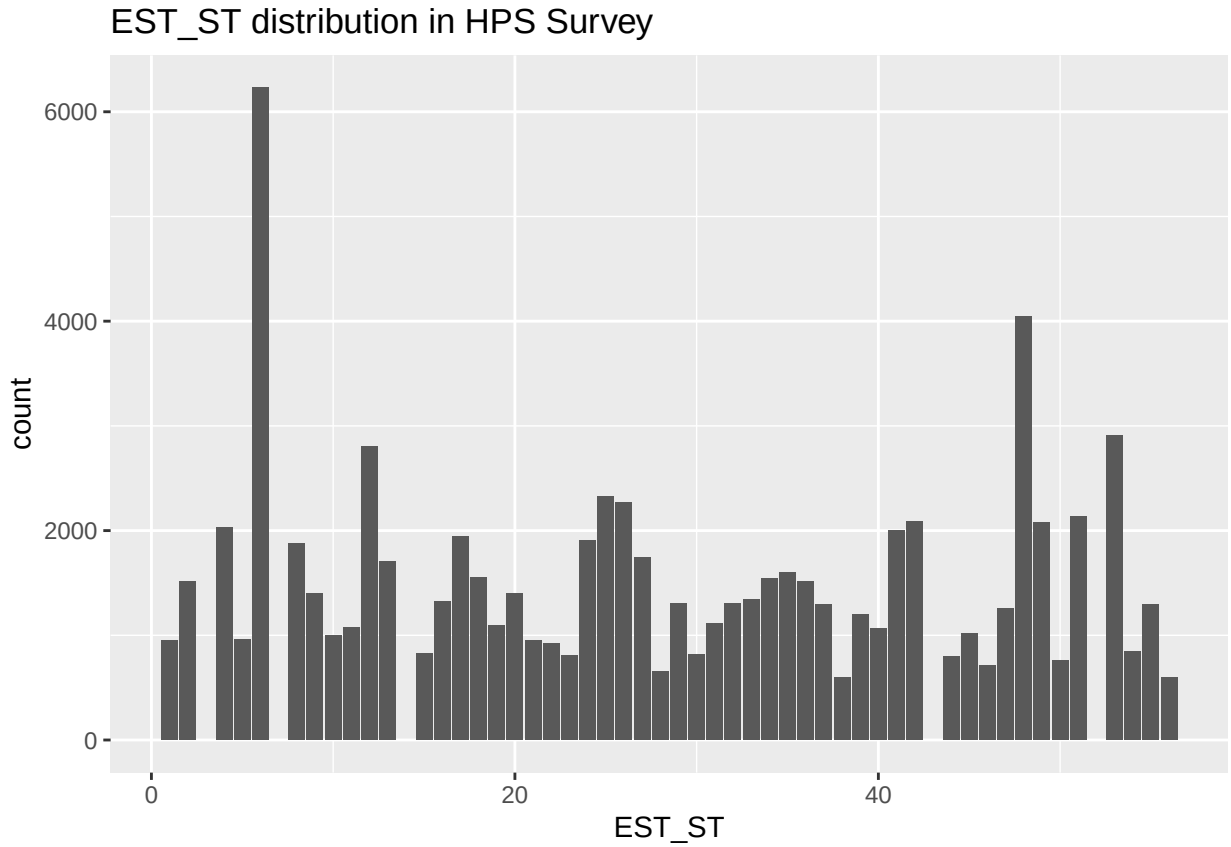

```
## [1] "PSWHYCHG8"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  5704
## 2          -88 71685
## 3            1  1078
```



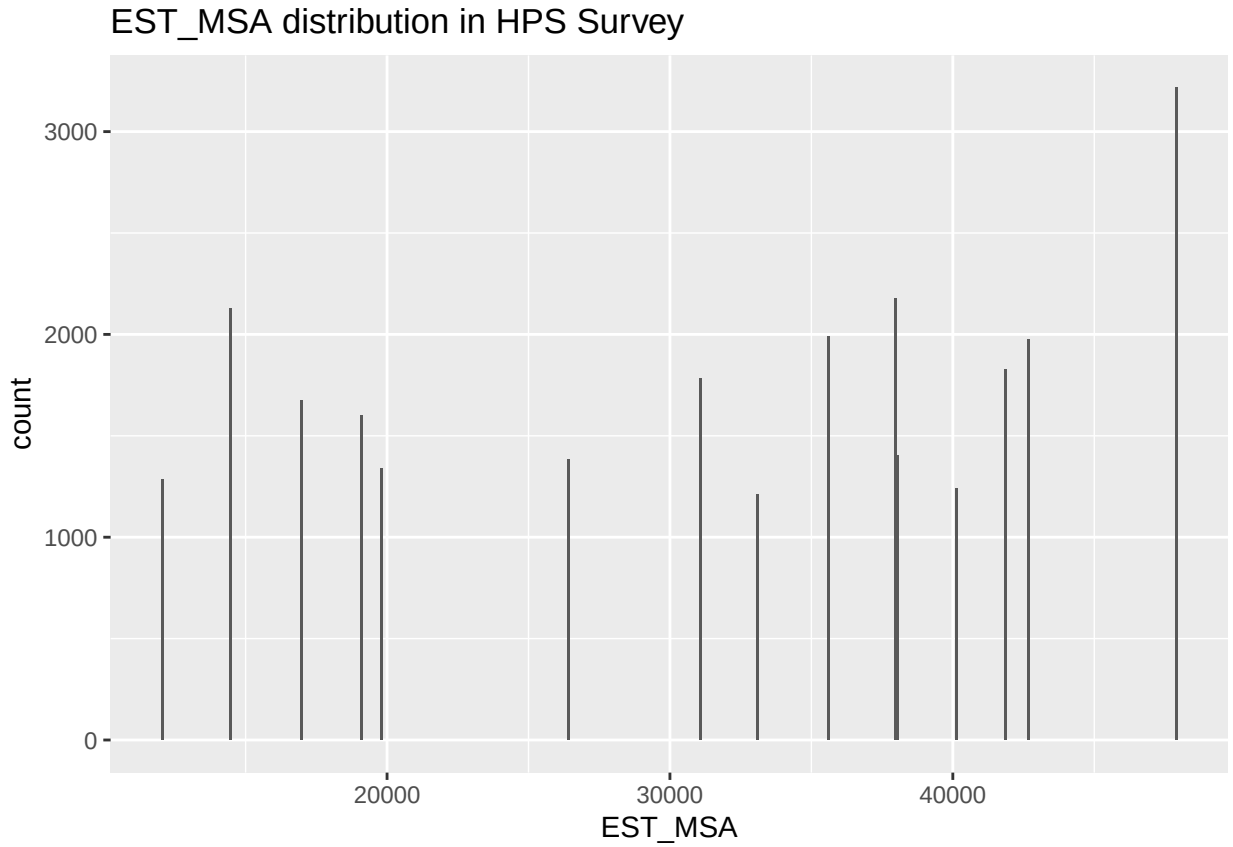

```
## [1] "PSWHYCHG9"
## # A tibble: 3 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1          -99  6205
## 2          -88 71685
## 3            1   577
```



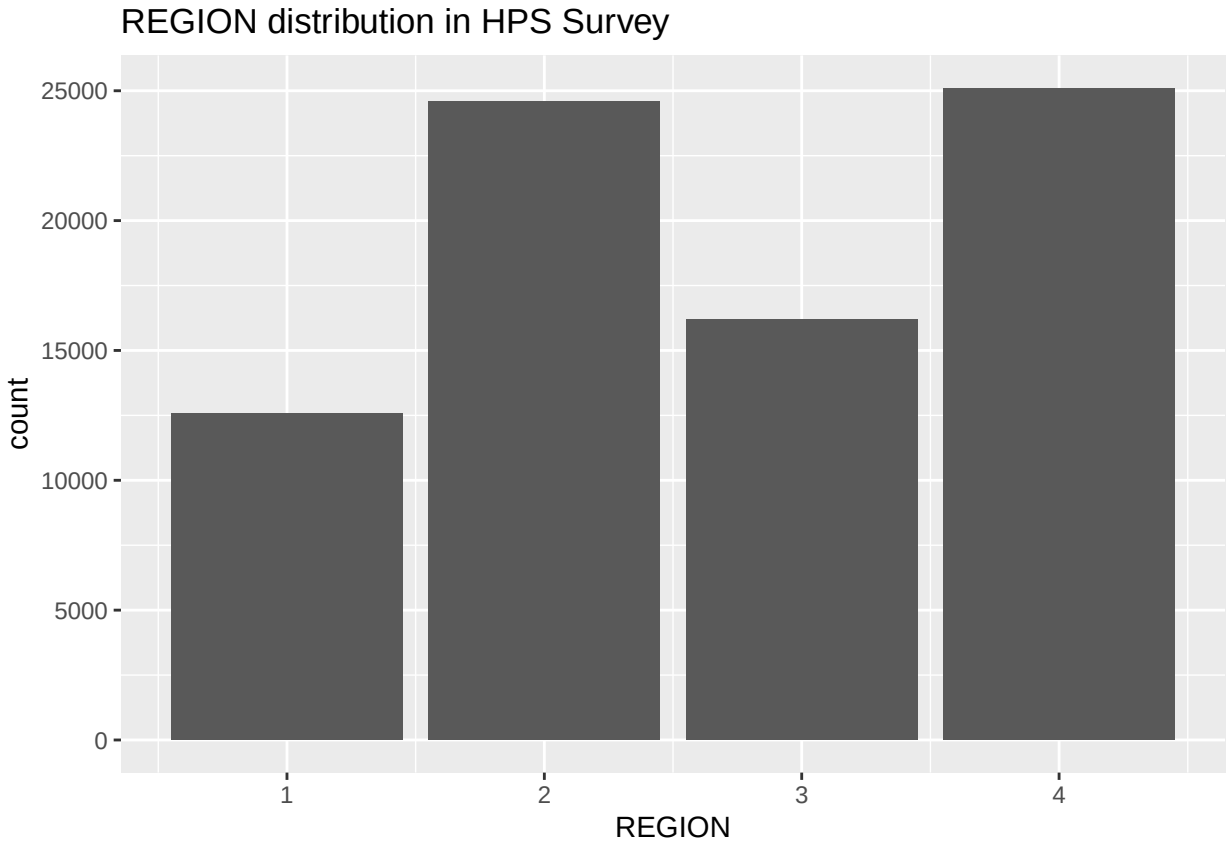

```
## [1] "EST_ST"
## # A tibble: 51 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1            1   948
##  2            2  1518
##  3            4  2029
##  4            5   957
##  5            6  6227
##  6            8  1881
##  7            9  1397
##  8           10   996
##  9           11  1075
## 10           12  2802
## # ... with 41 more rows
```




```
## [1] "EST_MSA"
## # A tibble: 16 x 2
##    `hps_c[, i]` count
##           <int> <int>
##  1        12060  1286
##  2        14460  2127
##  3        16980  1675
##  4        19100  1601
##  5        19820  1337
##  6        26420  1382
##  7        31080  1781
##  8        33100  1212
##  9        35620  1988
## 10        37980  2176
## 11        38060  1405
## 12        40140  1240
## 13        41860  1829
## 14        42660  1975
## 15        47900  3215
## 16           NA 52238
```




```
## [1] "REGION"
## # A tibble: 4 x 2
##   `hps_c[, i]` count
##          <int> <int>
## 1            1 12585
## 2            2 24569
## 3            3 16207
## 4            4 25106
```


REGION distribution in HPS Survey
25000
20000
15000
10000
5000
0
count
1
2
3
4
REGION