

Reproducible Research Project

Madeleine Drost

12/10/2019

Data

The data used for this project comes from the Health and Retirement Study (HRS). The data can be accessed here: https://hrs.isr.umich.edu/data-products/access-to-public-data?_ga=2.232815070.1935280546.1575302496-742184638.1575302496. Data was pulled from the 2006, 2010, and 2014 waves of the HRS. The sample was merged and cleaned using Stata. The outcome variable of interest is loneliness, which is assessed in the psychosocial questionnaire that is administered to only half of the sample every two years, so the sample was restricted to participants who had received and returned the leave-behind psychosocial questionnaire. The sample was further restricted to those participants over the age of 50 years, removing spouses younger than the age of interest.

```
library(haven)
projectDTA <- read_dta('mastersfile8_rand.dta')
names(projectDTA)
```

```
## [1] "rahhidpn"      "year"          "age_"          "race"
## [5] "marstat_"      "empstat_"      "havejob_"      "educ_"
## [9] "lonely_"       "inc_"          "debt_"         "hasdebt_"
## [13] "homeown_"      "assets_"       "objburd2_"     "billpaydif_"
## [17] "finstrain_"    "female"        "conindex_"     "masindex_"
## [21] "selfeff_"      "depress_"      "childclose_"   "friendnear_"
## [25] "togethermonth_" "big50_"        "big5C_"        "big5E_"
## [29] "big5A_"        "big5N_"        "anxiety_"      "hhsizes_"
```

```
summary(projectDTA$lonely_)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##      3.000   7.000   8.000   7.686   9.000   9.000  19555
```

```
summary(projectDTA$objburd2_)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##      0.00   0.00   0.00   29.43   0.18 50000.00  19765
```

```
summary(projectDTA$billpaydif_)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##      1.000   1.000   2.000   1.874   2.000   5.000  19680
```

Create Plot

This is a histogram representing the frequency of loneliness scores. The loneliness score is on a scale of 1-9 with 9 representing the most lonely individuals.

```
hist(projectDTA$lonely_
      ,xlab = "Loneliness Score"
      ,main = "Loneliness")
```

Loneliness

