FHWA - Download

Datasets

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Contents

Preamble

```r
rm(list = ls())
pklist <- c("curl", "tidyverse", "rvest")
source("https://fgeerolf.github.io/datasets/load-packages.R")
options(tibble.print_max = 100)
```

Download FHWA

Data comes from: https://www.fhwa.dot.gov/policyinformation/statistics/2016/

Oil Volumes

```r
load("../crosswalks/crosswalk.state.names.RData")

oil.volumes <- read.csv("net-motor-fuel-volume-state.csv") %>%
  gather(year, value, -State) %>%
  mutate(state.name = State %>% paste) %>%
  select(-State) %>%
  mutate(value = value %>% gsub(",", "", .) %>% as.numeric,
         year = year %>% substr(2, 5) %>% as.numeric,
         state.name = ifelse(state.name == "Dist. of Col.",
                             "District of Columbia", state.name)) %>%
  left_join(crosswalk.state.names, by = "state.name") %>%
  filter(state.name != "Total") %>%
  mutate(variable = "MOTORFUEL",
         variable.desc1 = "Net Motor Fuel Volume - Table 8.2.6 from FHA") %>%
  select(variable, variable.desc1, state.code, state.name, date = year, value)

save(oil.volumes, file = "oil.volumes.RData")

oil.volumes %>% head
```

```
##    variable                                  variable.desc1 state.code
## 1 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          AL
## 2 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          AK
## 3 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          AZ
## 4 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          AR
## 5 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          CA
## 6 MOTORFUEL Net Motor Fuel Volume - Table 8.2.6 from FHA          CO
##   state.name date    value
## 1    Alabama 1950   573499
## 2     Alaska 1950        0
## 3    Arizona 1950   222485
## 4   Arkansas 1950   377161
## 5 California 1950  3212869
## 6   Colorado 1950   361005
```

Highway use gasoline

```r
highway.use <- read.csv("highway-use-gasoline.csv") %>%
  mutate(state.name = STATE %>% paste) %>%
  filter(state.name != "Total") %>%
  select(-STATE) %>%
  gather(year, value, -state.name) %>%
  mutate(value = value %>% gsub(",", "", .) %>% as.numeric,
         year = year %>% substr(2, 5) %>% as.numeric,
         state.name = ifelse(state.name == "Dist. of Col.",
                             "District of Columbia", state.name)) %>%
  left_join(crosswalk.state.names,  by = "state.name") %>%
  mutate(variable = "HIGHWAY",
         variable.desc1 = "Highway use") %>%
  select(variable, variable.desc1, state.code, state.name, date = year, value)

save(highway.use, file = "highway.use.RData")

highway.use %>% head
```

```
##   variable variable.desc1 state.code state.name date    value
## 1  HIGHWAY    Highway use         AL    Alabama 1949   464959
## 2  HIGHWAY    Highway use         AK     Alaska 1949        0
## 3  HIGHWAY    Highway use         AZ    Arizona 1949   187266
## 4  HIGHWAY    Highway use         AR   Arkansas 1949   321704
## 5  HIGHWAY    Highway use         CA California 1949  2878314
## 6  HIGHWAY    Highway use         CO   Colorado 1949   327975
```

Computing Environment

```r
Sys.time()
```

```
## [1] "2018-09-29 16:41:15 PDT"
```

```r
sessionInfo()
```

```
## R version 3.5.1 (2018-07-02)
```

```
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS High Sierra 10.13.6
##
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
##  [1] bindrcpp_0.2.2  rvest_0.3.2     xml2_1.2.0      forcats_0.3.0
##  [5] stringr_1.3.1   dplyr_0.7.6     purrr_0.2.5     readr_1.1.1
##  [9] tidyr_0.8.1     tibble_1.4.2    ggplot2_3.0.0   tidyverse_1.2.1
## [13] curl_3.2
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_0.12.18     cellranger_1.1.0 pillar_1.3.0     compiler_3.5.1
##  [5] plyr_1.8.4       bindr_0.1.1      tools_3.5.1      digest_0.6.15
##  [9] lubridate_1.7.4  jsonlite_1.5     evaluate_0.11    nlme_3.1-137
## [13] gtable_0.2.0     lattice_0.20-35  pkgconfig_2.0.2  rlang_0.2.2
## [17] cli_1.0.0        rstudioapi_0.7   yaml_2.2.0       haven_1.1.2
## [21] withr_2.1.2      httr_1.3.1       knitr_1.20       hms_0.4.2
## [25] rprojroot_1.3-2  grid_3.5.1       tidyselect_0.2.4 glue_1.3.0
## [29] R6_2.2.2         readxl_1.1.0     rmarkdown_1.10   modelr_0.1.2
## [33] magrittr_1.5     backports_1.1.2  scales_1.0.0     htmltools_0.3.6
## [37] assertthat_0.2.0 colorspace_1.3-2 stringi_1.2.4    lazyeval_0.2.1
## [41] munsell_0.5.0    broom_0.5.0      crayon_1.3.4
```