

BEA - Regional - Download

Datasets

François Geerolf

Contents

Introduction	1
Datasets	1
State PCE	1
State GDP	2
Computing Environment	2

Introduction

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

An updated version of this note is available here: <https://fgeerolf.github.io/datasets/bea-regional-download.pdf>

Link to download the BEA Regional flat files: <https://apps.bea.gov/regional/downloadzip.cfm>

Datasets

State PCE

```
load("fips.statenames.xwalk.RData")

crosswalk <- fips.statenames.xwalk %>%
  select(state.code = stateabbrev, state.name = statenames1) %>%
  filter(state.name != "Foreign")

save(crosswalk, file = "crosswalk.RData")

PCE <- read.csv("PCEbyState/PCE_ALL_AREAS.csv") %>%
  gather(variable, value, -GeoFIPS, -GeoName, -Region, -ComponentId,
    -ComponentName, -Line, -IndustryClassification, -Description) %>%
  mutate(date = variable %>% paste %>% substr(2, 5),
    date = date %>% as.numeric) %>%
  select(-variable) %>%
  select(date, fips = GeoFIPS, GeoName, line = Line, Description, value) %>%
  filter(!is.na(line)) %>%
  mutate(variable.desc1 = Description %>% paste,
    state.name = GeoName %>% paste,
```

```

    fips = fips %>% paste %>% as.numeric/1000,
    variable = paste0("PCE_line", line)) %>%
inner_join(crosswalk, by = "state.name") %>%
select(variable, variable.desc1, state.code, state.name, date, value) %>%
mutate(variable.desc1 = variable.desc1 %>% paste)

save(PCE, file = "PCE.RData")

```

State GDP

```

GDP <- "qgdpstate_all/qgdpstate_all.csv" %>%
read.csv %>%
gather(variable, value, -GeoFIPS, -GeoName, -Region, -ComponentId, -ComponentName,
-IndustryId, -IndustryClassification, -Description) %>%
mutate(time = variable %>% paste,
year = time %>% substr(2, 5) %>% as.numeric,
qtr = time %>% substr(8, 8) %>% as.numeric,
date = year + (qtr - 1)/4) %>%
select(-time, -variable, -year, -qtr) %>%
mutate(value = value %>% as.numeric,
fips = GeoFIPS %>% paste %>% as.numeric /1000) %>%
select(-GeoFIPS, -GeoName) %>%
right_join(fips.statenames.xwalk %>%
select(fips, state.code = stateabbrev),
by = "fips") %>%
# Remove State = Foreign (FR)
filter(state.code != "FR") %>%
select(state.code, date, everything()) %>%
left_join(crosswalk, by = "state.code") %>%
select(-fips) %>%
arrange(state.code, date) %>%
mutate_at(vars(-date, -value), funs(paste)) %>%
mutate(variable = paste0("GDP_comp", ComponentId, "_ind", IndustryId)) %>%
select(variable, variable.desc1 = ComponentName, variable.desc2 = Description,
state.code, state.name, date, value)

```

```

## Warning: attributes are not identical across measure variables;
## they will be dropped

## Warning in function_list[[k]](value): NAs introduced by coercion

## Warning in function_list[[k]](value): NAs introduced by coercion

save(GDP, file = "GDP.RData")

```

Computing Environment

```

Sys.time()

## [1] "2018-09-29 16:42:42 PDT"

```

`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 forcats_0.3.0  stringr_1.3.1  dplyr_0.7.6
## [5] purrr_0.2.5    readr_1.1.1    tidyr_0.8.1    tibble_1.4.2
## [9] ggplot2_3.0.0  tidyverse_1.2.1
##
## 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     xml2_1.2.0      httr_1.3.1      knitr_1.20
## [25] hms_0.4.2       rprojroot_1.3-2 grid_3.5.1       tidyselect_0.2.4
## [29] glue_1.3.0      R6_2.2.2        readxl_1.1.0    rmarkdown_1.10
## [33] modelr_0.1.2    magrittr_1.5    backports_1.1.2 scales_1.0.0
## [37] htmltools_0.3.6 rvest_0.3.2     assertthat_0.2.0 colorspace_1.3-2
## [41] stringi_1.2.4   lazyeval_0.2.1  munsell_0.5.0   broom_0.5.0
## [45] crayon_1.3.4
```