```
  -------------------------------------------------------------------------------
> -------------------------------------------------------------------------------
> -----
       name:  <unnamed>
        log:  C:\KY-SNAP-ABAWD-Waivers/Log_Files/ACS_Education_Cleaning.log
   log type:  text
  opened on:  24 Aug 2025, 22:53:52

.
. /*********************************************
> FILE NAME: ACS_Education_Cleaning
> AUTHOR: Dylan Craig
> DATE CREATED: November 24, 2024
> DATE MODIFIED: November 26, 2024
>
> PURPOSE: Process and clean ACS county-level education data with selected variables.
> *********************************************/
.
. // Echo header into log
. di as txt "*********************************************"
*********************************************

. di as txt "FILE NAME: ACS_Education_Cleaning"
FILE NAME: ACS_Education_Cleaning

. di as txt "AUTHOR: Dylan Craig"
AUTHOR: Dylan Craig

. di as txt "DATE CREATED: November 24, 2024"
DATE CREATED: November 24, 2024

. di as txt "DATE MODIFIED: November 26, 2024"
DATE MODIFIED: November 26, 2024

. di as txt "PURPOSE: Process and clean ACS county-level education data with selected
> variables."
PURPOSE: Process and clean ACS county-level education data with selected variables.

. di as txt "*********************************************"
*********************************************

.
. // ----------------------- Step 1: Set Up --------------------------
. local raw_folder "$base_path/Raw_Data/ACS_County_Characteristics_Data/ACS_Education"

. local file_pattern "*.csv"

.
. // ----------------------- Step 2: Initialize Master Dataset --------
. clear

. tempfile master

. save `master', emptyok replace
(dataset contains 0 observations)
(file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp not found)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format

.
. // ----------------------- Step 3: Process Files -------------------
```

```
. local files : dir "`raw_folder'" files "`file_pattern'"

.
. foreach file of local files {
  2.      di "Processing file: `file'"
  3.      local filepath "`raw_folder'/`file'"
  4.      di "Full file path: `filepath'"
  5.
  .      // Import CSV file
  .      capture import delimited "`filepath'", varnames(1) stringcols(_all) clear
  6.      if _rc {
  7.          di "Error: Could not import `file'. Skipping."
  8.          continue
  9.      }
 10.
  .      // Extract year from filename
  .      gen Year = real(regexs(1)) if regexm("`file'", "([0-9]{4})")
 11.      if missing(Year) {
 12.          di "Error: Could not extract year from `file'. Skipping."
 13.          continue
 14.      }
 15.
  .      // Append
  .      append using `master'
 16.      save `master', replace
 17. }
Processing file: acsst5y2017.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2017.s1501-data.csv
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsst5y2018.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2018.s1501-data.csv
(variable s1501_c01_014e was str77, now strL to accommodate using data's values)
(variable s1501_c01_015e was str74, now strL to accommodate using data's values)
(variable s1501_c02_015e was str76, now strL to accommodate using data's values)
(variable s1501_c03_014e was str76, now strL to accommodate using data's values)
(variable s1501_c03_015e was str73, now strL to accommodate using data's values)
(variable s1501_c05_015e was str75, now strL to accommodate using data's values)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsst5y2019.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2019.s1501-data.csv
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsst5y2020.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2020.s1501-data.csv
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsst5y2021.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2021.s1501-data.csv
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsst5y2022.s1501-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers/Raw_Data/ACS_County_Characteristics_Data/ACS_
> Education/acsst5y2022.s1501-data.csv
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format

.
. // ---------------------- Step 4: Keep Relevant Variables ----------
. use `master', clear
```

```
.
. keep s1501_c02_014e s1501_c02_015e name s1501_c01_006e Year

. rename s1501_c01_006e Ann_25_Over_Pop

. rename s1501_c02_014e Ann_Perc_HS_25_Over

. rename s1501_c02_015e Ann_Perc_Bach_25_Over

. rename name COUNTY

.
. // Drop first row if extra header
. drop in 1
(1 observation deleted)

.
. // Standardize COUNTY
. gen COUNTY_clean = upper(subinstr(COUNTY, " County, Kentucky", "", .))

. drop COUNTY

. rename COUNTY_clean COUNTY

.
. // ----------------------- Step 5: Add Month Variable ---------------
. gen Month = .
(725 missing values generated)

. expand 12
(7,975 observations created)

. bysort COUNTY Year (Month): replace Month = _n
(8,700 real changes made)

.
. gen MonthFormatted = string(Month, "%02.0f")

. drop Month

. rename MonthFormatted Month

.
. order COUNTY Year Month Ann_25_Over_Pop Ann_Perc_HS_25_Over Ann_Perc_Bach_25_Over

.
. drop if COUNTY == "GEOGRAPHIC AREA NAME"
(60 observations deleted)

.
. destring Month, replace
Month: all characters numeric; replaced as byte

. destring Year, replace
Year already numeric; no replace

. destring Ann_25_Over_Pop, replace
Ann_25_Over_Pop: all characters numeric; replaced as long

. destring Ann_Perc_HS_25_Over, replace
Ann_Perc_HS_25_Over: all characters numeric; replaced as double
```

```
. destring Ann_Perc_Bach_25_Over, replace
Ann_Perc_Bach_25_Over: all characters numeric; replaced as double


.
. replace COUNTY = proper(lower(COUNTY))
(8,640 real changes made)


.
. // Labels
. label variable Ann_25_Over_Pop "Annual estimate: Population 25 years and over"

. label variable Ann_Perc_HS_25_Over "Annual percentage: Population 25+ with high scho
> ol diploma or higher"

. label variable Ann_Perc_Bach_25_Over "Annual percentage: Population 25+ with bachelo
> r's degree or higher"


.
. // ----------------------- Step 6: Save Final Dataset ---------------
. di "Saving final dataset with selected variables..."
Saving final dataset with selected variables...

. save "$base_path/Data_Outputs/ACS_Education/ACS_Education_Cleaned.dta", replace
(file C:\KY-SNAP-ABAWD-Waivers/Data_Outputs/ACS_Education/ACS_Education_Cleaned.dta no
> t found)
file C:\KY-SNAP-ABAWD-Waivers/Data_Outputs/ACS_Education/ACS_Education_Cleaned.dta sav
> ed

. di "File successfully saved as ACS_Education_Cleaned.dta"
File successfully saved as ACS_Education_Cleaned.dta


.
. // Close log
. log close
      name:  <unnamed>
       log:  C:\KY-SNAP-ABAWD-Waivers/Log_Files/ACS_Education_Cleaning.log
  log type:  text
 closed on:  24 Aug 2025, 22:53:54
--------------------------------------------------------------------------------
> --------------------------------------------------------------------------------
> -----
```