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> -----
> -----
      name: <unnamed>
      log: C:\KY-SNAP-ABAWD-Waivers\Log_Files\ACS_Population_Cleaning.log
      log type: text
      opened on: 24 Aug 2025, 22:53:55

. /*****
> FILE NAME: ACS_Population_Cleaning
> AUTHOR: Dylan Craig
> DATE CREATED: November 24, 2024
> DATE MODIFIED: November 26, 2024
>
> PURPOSE: Process and clean ACS county-level population data with a month variable.
> *****/

. // Echo header into log
. di as txt "*****"
*****

. di as txt "FILE NAME: ACS_Population_Cleaning"
FILE NAME: ACS_Population_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 population data with a month
> variable."
PURPOSE: Process and clean ACS county-level population data with a month variable.

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

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

. 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

.

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. // ----- 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.
.     capture import delimited "`filepath'", varnames(2) 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.
.     // Drop unnecessary rows
.     drop if geographic == "" | missing(geographic)
16.
.     append using `master'
17.     save `master', replace
18. }
Processing file: acsdt5y2017.b01001-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2017.b01001-data.csv
(0 observations deleted)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsdt5y2018.b01001-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2018.b01001-data.csv
(0 observations deleted)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsdt5y2019.b01001-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2019.b01001-data.csv
(0 observations deleted)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsdt5y2020.b01001-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2020.b01001-data.csv
(0 observations deleted)
(variable marginoferrortotalmale18and19yea was str3, now str5 to accommodate using dat
> a's values)
(variable marginoferrortotalfemale18and19y was str3, now str5 to accommodate using dat
> a's values)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsdt5y2021.b01001-data.csv
Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2021.b01001-data.csv
(0 observations deleted)
(variable marginoferrortotalmale was str3, now str5 to accommodate using data's values
> )
(variable marginoferrortotalmaleunder5year was str3, now str5 to accommodate using dat
> a's values)
(variable marginoferrortotalmale18and19yea was str3, now str5 to accommodate using dat
> a's values)
(variable marginoferrortotalfemale was str3, now str5 to accommodate using data's valu
> es)
(variable marginoferrortotalfemaleunder5ye was str3, now str5 to accommodate using dat
> a's values)
(variable marginoferrortotalfemale18and19y was str3, now str5 to accommodate using dat
> a's values)
(variable estimatetotalfemale85yearsandove was str4, now str5 to accommodate using dat
> a's values)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format
Processing file: acsdt5y2022.b01001-data.csv

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Full file path: C:\KY-SNAP-ABAWD-Waivers\Raw_Data\ACS_County_Characteristics_Data\ACS_
> Population\acsdt5y2022.b01001-data.csv
(0 observations deleted)
(variable marginoferrortotalmale was str3, now str5 to accommodate using data's values
> )
(variable marginoferrortotalmale18and19yea was str3, now str5 to accommodate using dat
> a's values)
(variable marginoferrortotalfemale was str3, now str5 to accommodate using data's valu
> es)
(variable marginoferrortotalfemale18and19y was str3, now str5 to accommodate using dat
> a's values)
(variable estimatetotalfemale85yearsandove was str4, now str5 to accommodate using dat
> a's values)
file C:\Users\dscra\AppData\Local\Temp\ST_e504_000001.tmp saved as .dta format

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.
. // ----- Step 4: Add Month Variable & Clean -----
. use `master', clear

.
. // Expand to 12 months per year
. gen Month = .
(720 missing values generated)

. expand 12
(7,920 observations created)

. bysort geographicareaname Year (Month): replace Month = _n
(8,640 real changes made)

.
. // Format Month as two digits
. gen MonthFormatted = string(Month, "%02.0f")

. drop Month

. rename MonthFormatted Month

.
. // Reorder and clean variables
. order geographicareaname Year Month estimatetotal

. rename geographicareaname COUNTY

. rename estimatetotal Ann_Population

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

. drop COUNTY

. rename COUNTY_clean COUNTY

.
. // Keep only necessary vars
. keep COUNTY Ann_Population Year Month

. order COUNTY Year Month

```

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

. destring Year, replace
Year already numeric; no replace

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

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

.
. // Drop data for 2020 and later
. drop if Year >= 2020
(4,320 observations deleted)

.
. // Label variables
. label variable Ann_Population "Annual Population"

.
. // ----- Step 5: Save Final Dataset -----
. di "Saving final dataset with Month variable..."
Saving final dataset with Month variable...

. save "$base_path/Data_Outputs/ACS_Population/ACS_Population_Cleaned.dta", replace
(file C:\KY-SNAP-ABAWD-Waivers\Data_Outputs/ACS_Population/ACS_Population_Cleaned.dta
> not found)
file C:\KY-SNAP-ABAWD-Waivers\Data_Outputs/ACS_Population/ACS_Population_Cleaned.dta s
> aved

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

.
. // Close log
. log close
      name: <unnamed>
      log: C:\KY-SNAP-ABAWD-Waivers\Log_Files/ACS_Population_Cleaning.log
      log type: text
      closed on: 24 Aug 2025, 22:53:55
-----
> -----
> -----

```