

```

-----
> -----
> -----
      name: <unnamed>
      log: C:\KY-SNAP-ABAWD-Waivers\Log_Files\Census_Bureau_Population_Cleaning.log
      log type: text
      opened on: 24 Aug 2025, 22:53:56

.
. /*****
> FILE NAME: Census_Bureau_Population_Cleaning
> AUTHOR: Dylan Craig
> DATE CREATED: November 24, 2024
> DATE MODIFIED: November 26, 2024
>
> PURPOSE: Process and clean Census Bureau county population data for analysis.
> *****/

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

. di as txt "FILE NAME: Census_Bureau_Population_Cleaning"
FILE NAME: Census_Bureau_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 Census Bureau county population data for analy
> sis."
PURPOSE: Process and clean Census Bureau county population data for analysis.

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

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

. local file "co-est2023-pop-21.xlsx"

.
. // ----- Step 2: Import Data -----
. clear

. di "Processing file: `file'"
Processing file: co-est2023-pop-21.xlsx

.
. local filepath "`raw_folder'/'file'"

. capture import excel "`filepath'", cellrange(A4) firstrow clear

. if _rc {

```

```

.      di "Error importing `file'. Exiting."
.      exit
.  }

.
.  // ----- Step 3: Clean Data -----
.  drop if _n == 1 | inrange(_n, 122, 127)
(7 observations deleted)

.
.  rename A County

.  replace County = substr(County, ".", "", .)
(120 real changes made)

.  replace County = substr(County, "County, Kentucky", "", .)
(120 real changes made)

.  replace County = proper(trim(lower(County)))
(120 real changes made)

.  rename County COUNTY

.  label variable COUNTY "County Name"

.
.  drop B

.
.  rename C Ann_Population_2020
.  rename D Ann_Population_2021
.  rename E Ann_Population_2022
.  rename F Ann_Population_2023

.
.  reshape long Ann_Population_, i(COUNTY) j(Year)
(j = 2020 2021 2022 2023)

Data                                Wide   ->   Long
-----
Number of observations              120   ->   480
Number of variables                  5   ->    3
j variable (4 values)                ->   Year
xij variables:
Ann_Population_2020 Ann_Population_2021 ... Ann_Population_2023->Ann_Population_
-----

.  rename Ann_Population_ Ann_Population

.  label variable Ann_Population "Annual Population"

.  label variable Year "Year"

.
.  // ----- Step 4: Add Month Variable -----
.  expand 12
(5,280 observations created)

```

```

. bysort COUNTY Year: gen Month = _n
. label variable Month "Month"

.
. order COUNTY Year Month Ann_Population

.
. // ----- Step 5: Save Cleaned Data -----
. save "$base_path/Data_Outputs/Census_Bureau_County_Population_Data/County_Population
> .dta", replace
file C:\KY-SNAP-ABAWD-Waivers/Data_Outputs/Census_Bureau_County_Population_Data/County
> _Population.dta saved

. di "Census Bureau county population data successfully processed and saved."
Census Bureau county population data successfully processed and saved.

.
. // Close the log
. log close
    name: <unnamed>
    log: C:\KY-SNAP-ABAWD-Waivers/Log_Files/Census_Bureau_Population_Cleaning.log
    log type: text
    closed on: 24 Aug 2025, 22:53:56
-----
> -----
> -----

```