

Moving Starter Kite Flat File:: Demographics, Employment, Education, Income, Infrastructure, Retirement, Crime, and Weather Variables

Note – The prefixes d_, r_, and w_ denote which Milestone file provided the information: d_ is Milestone 2 (demographics), r_ is Milestone 3 (regions), w_ is Milestone 4 (weather)

d_Metropolitan_Area (1-57)

Variable Type: String (Raw)

Description: Combined column with metropolitan and micropolitan area names, state codes, and metro/micro designation. Used as key for the 2021 American Community Survey information (race, total population, median age, mean income, employment rate, graduation rates, and internet usage).

d_Metropolitan_Short (58-103)

Variable Type: String (Raw)

Description: Combined column with metropolitan and micropolitan area names and state codes. Used as key for State name and state code, anchor city and population, and the number of airports through the Metro/Micro cross-reference table.

d_State (103-122)

Variable Type: String (Raw)

Description: State name from the Metro/Micro cross-reference table using Metropolitan_Short as the key. Used as a key for anchor city and population, number of airports, state income tax, retirement ranking, affordability, quality of life, education ranking and quality, and violent and property crime.

d_State_Code (123-124)

Variable Type: String (Raw)

Description: State code from the Metro/Micro cross-reference table using Metropolitan_Short as the key.

d_Total_Population (125-132)

Variable Type: Integer (Raw)

Description: Total population of a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Anchor_City (133-150)

Variable Type: String (Raw)

Description: The city within the metro/micro area with the largest population using the Metro/Micro cross-reference table. Used as a key for violent and property crime.

d_Anchor_City_Population (151-157)

Variable Type: Integer (Raw)

Description: Population of the Anchor_City

d_Median_Age (158-161)

Variable Type: Integer (Raw)

Description: Median age of a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Male_PCT (162-165)

Variable Type: Decimal (Raw)

Description: Percentage of men in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Female_PCT (166-169)

Variable Type: Decimal (Raw)

Description: Percentage of women in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_White_PCT (170-173)

Variable Type: Decimal (Raw)

Description: Percentage of people who are white in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Black_PCT (170-173)

Variable Type: Integer (Raw)

Description: Percentage of people who are black in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Asian_PCT (170-173)

Variable Type: Decimal (Raw)

Description: Percentage of people who are of Asian descent in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Latino_PCT (174-177)

Variable Type: Decimal (Raw)

Description: Percentage of people who are of Latino descent in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_American_Indian_Alaska_Native_PCT (178-181)

Variable Type: Decimal (Raw)

Description: Percentage of people who are American Indian or Alaskan Native in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Pacific_Islander_PCT (182-185)

Variable Type: Decimal (Raw)

Description: Percentage of people who are of Pacific Islander descent in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Mean_Income (186-191)

Variable Type: Integer (Raw)

Description: Adjusted mean income of a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_High_School_Grad_Rate (192-195)

Variable Type: Decimal (Raw)

Description: High school graduation rate by metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_College_Degree_PCT (196-199)

Variable Type: Decimal (Raw)

Description: Percentage of people enrolled in a college or university that graduate in a metro/micro area based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Education_State_Ranking (197-198)

Variable Type: Integer (Raw)

Description: The overall education system is ranked nationwide by state using the State name as the key.

d_Education_Quality_State_Ranking (199-200)

Variable Type: Integer (Raw)

Description: The nationwide ranking for the quality of education is by State, using the State name as the key.

d_Number_of_Airports (201)

Variable Type: Integer (Raw)

Description: Total number of airports for a metro area using the Metro/Micro cross-reference table to match the city containing an airport with the Metropolitan_Short column.

d_Income_Tax_Rate_Low (202-205)

Variable Type: Decimal (Raw)

Description: The lowest income tax rate for a state using the State name as the key.

d_Income_Tax_Rate_High (206-209)

Variable Type: Decimal (Raw)

Description: The highest income tax rate for a state using the State name as the key.

d_State_Retirement_Ranking (210-211)

Variable Type: Integer (Raw)

Description: The overall nationwide ranking as a state to retire using the State name as the key.

d_Retirement_Affordability_Ranking (212-213)

Variable Type: Integer (Raw)

Description: Nationwide ranking of retirement affordability by state using the State name as the key.

d_Retirement_Quality_of_Life_Ranking (214-215)

Variable Type: Integer (Raw)

Description: Nationwide ranking of quality of life in retirement by state using the State name as the key.

d_Retirement_Health_Care_Ranking (216-217)

Variable Type: Integer (Raw)

Description: Nationwide ranking of health care during retirement by state using the State name as the key.

d_Homes_With_Internet_PCT (218-221)

Variable Type: Decimal (Raw)

Description: Percentage of homes in a metro/micro area with internet based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Homes_Without_Internet_PCT (222-225)

Variable Type: Decimal (Raw)

Description: Percentage of homes in a metro/micro area without internet based on the 2021 American Community Survey information using Metropolitan_Area as the key

d_Violent_Crime_2019 (225-229)

Variable Type: Integer (Raw)

Description: Number of violent crimes in 2019 by city and state from the FBI crime statistics using the State name and Anchor_City as the key.

d_Property_Crime_2019 (230-235)

Variable Type: Integer (Raw)

Description: Number of property crimes in 2019 by city and state from the FBI crime statistics using the State name and Anchor_City as the key.

d_Metro_Micro_Area (236-245)

Variable Type: Computed

Description: The last 10 characters of the Metropolitan_Area. This is used when comparing the information between the Metropolitan and Micropolitan areas.

r_Region (246-254)

Variable Type: String (Raw)

Description: The region of the United States uses the State Name as the key. This is used to group information in visualizations.

r_State_Capital (255-269)

Variable Type: String (Raw)

Description: The capital of the state using the State Name as the key

r_Capital_and_State (270-294)

Variable Type: Computed

Description: Combination of State Capital and State Name.

r_Capital_and_Abbrev (295-312)

Variable Type: Computed

Description: Combination of State Capital and State Name.

w_Longitude (313-320)

Variable Type: Decimal (Raw)

Description: Half of the geographic coordinates using Anchor_city and State_code as the key

w_Latitude (321-327)

Variable Type: Decimal (Raw)

Description: Half of the geographic coordinates using Anchor_City and State_Code as the key

w_Forecast_Today (328-427)

Variable Type: Computed

Description: Weather forecast for today, including minimum, maximum, and average temperature, precipitation percentage, and the cloud cover description.

w_Forecast_Tom (428-527)

Variable Type: Computed

Description: Weather forecast for tomorrow, including minimum, maximum, and average temperature, precipitation percentage, and the cloud cover description.

file_create_date (528, 546)

Variable Type: Timestamp

Description: Date and time the Milestone 5 file was created.

Data Sources

DP05: ACS DEMOGRAPHIC AND HOUSING ESTIMATES

U.S. Census Bureau, 2021 American Community Survey 1-Year Estimates Retrieved April 2, 2023, from [https://data.census.gov/table?q=United+States+demographics&g=010XX00US,\\$31000M1&tid=ACSDP1Y2021.DP05&tp=true](https://data.census.gov/table?q=United+States+demographics&g=010XX00US,$31000M1&tid=ACSDP1Y2021.DP05&tp=true)

S1902: MEAN INCOME IN THE PAST 12 MONTHS (IN 2021 INFLATION-ADJUSTED DOLLARS)

U.S. Census Bureau, 2021 American Community Survey 1-Year Estimates Retrieved April 2, 2023, from <https://data.census.gov/table?q=income&tid=ACSST1Y2021.S1902&moe=false&tp=true>

S2301: EMPLOYMENT STATUS

U.S. Census Bureau, 2021 American Community Survey 1-Year Estimates Retrieved April 2, 2023, from [https://data.census.gov/table?q=employment+acs&g=010XX00US\\$3100000&tid=ACSST1Y2021.S2301&moe=false&tp=true](https://data.census.gov/table?q=employment+acs&g=010XX00US$3100000&tid=ACSST1Y2021.S2301&moe=false&tp=true)

City and Town Population Totals: 2010-2019

U.S. Census Bureau, 2021 Retrieved March 28, 2023, from <https://www.census.gov/data/tables/time-series/demo/popest/2010s-total-cities-and-towns.html#ds>

Income Tax Rates By State

Tax-Rates.org — The 2022-2023 Tax Resource Retrieved March 31, 2023, from <https://www.tax-rates.org/taxtables/income-tax-by-state>

United States Airports, by Name

Airport Codes Retrieved March 31, 2023, from <https://www.airportcodes.us/us-airports-by-name.htm>

Offenses Known to Law Enforcement by State by City, 2019

FBI - Federal Bureau of Investigation, 2019 Crime in the United States Retrieved April 7, 2023, from <https://ucr.fbi.gov/crime-in-the-u.s/2019/crime-in-the-u.s.-2019/topic-pages/tables/table-8/table-8.xls/view>
<https://ucr.fbi.gov/crime-in-the-u.s/2018/crime-in-the-u.s.-2018/topic-pages/tables/table-6>

Most Educated States

McCann, Adam (February 13, 2023) *2023's Most & Least Educated States in America*
<https://wallethub.com/edu/e/most-educated-states/31075>

Best & Worst States to Retire

McCann, Adam (January 23, 2023) *2023's Best States to Retire*
<https://wallethub.com/edu/best-and-worst-states-to-retire/18592>

Cross Reference Table – Joined together by FIPS Codes.

PRINCIPAL CITIES OF METROPOLITAN AND MICROPOLITAN STATISTICAL AREAS, MARCH 2020

U.S. Census Bureau, 2021 Retrieved April 1, 2023, from <https://www.census.gov/geographies/reference-files/time-series/demo/metro-micro/delineation-files.html>

American National Standards Institute (ANSI) and Federal Information Processing Series (FIPS) Codes

U.S. Census Bureau, Retrieved April 7, 2023, from <https://www.census.gov/library/reference/code-lists/ansi.html#state>

Scraped Websites – For Milestone #3

List Of 50 States And Their Capitals

TheFactFile.Org, Retrieved May 4, 2023

<https://thefactfile.org/u-s-states-and-capitals>

5 US Regions Map and Facts

Mappr.co, Retrieved May 4, 2023

<https://www.mappr.co/political-maps/us-regions-map/>

API Website – For Milestone #4

Weather Data & API - Global Forecast & History Data

VisualCrossing Retrieved May 21, 2023

<https://www.visualcrossing.com/>