1. **Asthma Emergency Department Visit Rates**

URL: https://data.chhs.ca.gov/dataset/asthma-emergency-department-visit-rates

Geographical Location: California by County and by zip code

Time Granularity: County - Annual from 2015 to 2019, Zip code – Annual from 2013 to 2019 (note, treat 2013 to 2015 as a separate dataset from 2016 to 2019 due to a change in coding)

Details: This dataset contains counts and rates (per 10,000 residents) of asthma emergency department (ED) visits among Californians. The table "Asthma Emergency Department Visit Rates by County" contains statewide and county-level data stratified by age group (all ages, 0-17, 18+, 0-4, 5-17, 18-64, 65+) and race/ethnicity (white, black, Hispanic, Asian/Pacific Islander, American Indian/Alaskan Native). The table "Asthma Emergency Department Visit Rates by ZIP Code" contains zip-code level data stratified by age group (all ages, 0-17, 18+). The data are derived from the Office of Statewide Health Planning and Development emergency department database. These data include emergency department visits from all licensed hospitals in California. These data are based only on primary discharge diagnosis codes. On October 1, 2015, diagnostic coding for asthma transitioned from ICD9-CM (493) to ICD10-CM (J45). Because of this change, CDPH and CDC do not recommend comparing data from 2015 (or earlier) to 2016 (or later). NOTE: Rates are calculated from the total number of asthma emergency department visits (not the unique number of individuals).

2. **Air Data: Air Quality Data Collected at Outdoor Monitors Across the US**

URL: https://www.epa.gov/outdoor-air-quality-data (AQS), https://docs.airnowapi.org/ (real-time data)

Geographical Location: 2,498 AQS sites in 2020

Time Granularity: 1957 to 2021 for AQS. Daily, quarterly, and annual summaries. Sample durations from 3 minutes to 3 months.

Details: This API is the primary place to obtain row-level data from the EPA's Air Quality System (AQS) database. If you would like aggregated or visual data from AQS, or large files of pre-extracted data, AirData is the place to start.

AQS contains ambient air sample data collected by state, local, tribal, and federal air pollution control agencies from thousands of monitors around the nation. It also contains meteorological data, descriptive information about each monitoring station (including its geographic location and its operator), and information about the quality of the samples. More about AQS. Note, AQS does not contain real-time air quality data (it can take 6 months or more from the time data is collected until it is in AQS). For real-time data, please visit the AirNow API.

3. **SB1200CSA05: Statistics for All U.S. Firms by Industry, Gender, and Receipts Size of Firm for the U.S. and States**

URL: data.census.gov

Geographic Location: County aggregation

Time Granularity: Annual for 2012

Details: We would be interested in the annual sales, value of shipments, or revenue size by NAICS2017 to indicate the economic activity by industry type in a region. This can be used as another potential predictor of asthma risk in a region.