The dataset is about the daily Air Quality Index from EPA of States, territories of U.S and regions around the U.S from January 1980 to May 2021 and this is a publicly available daily set which I got from:

<https://www.kaggle.com/threnjen/40-years-of-air-quality-index-from-the-epa-daily> and the site also referenced the source from: <https://aqs.epa.gov/aqsweb/airdata/download_files.html>.

The dataset contains Eight Columns with over 10 million records / rows, the eight columns are described below.

State Name: Name of States, Metro areas, territories, and very close regions around the U.S

Date: The date (year, month, and particular day) for which the Air Quality index was measured

AQI: Air Quality Index - This is the standard / yardstick which is a numerical scale used for reporting day to day air quality with regards to human health and the **environment**. It runs from 0 to 500

Category: A rating (Level of Concern) for the habitability of the region at that point in time

Defining Parameter: The major Air pollutants present at the time

Latitude: The angular distance of a place north or south of the earth’s equator. Latitudes to the north are positive while those to the south are negative

Longitude: The angular distance of a place west or east of the earth’s prime meridian. Longitudes to the east are positive while those to the west are negative

County Name: The different counties of the various States

A picture containing table

Description automatically generated

Defining Parameter or Air Pollutants (Eight Major Types)

* Particulate Matter (PM) 2.5 and 10
* Ozone
* Sulfur Dioxide (SO2)
* Nitrogen Dioxide (NO2)
* Carbon Monoxide (CO)
* Ammonia (NH3)
* Lead (Pb)