Air Quality Data Description

|  |  |  |
| --- | --- | --- |
| **ID** | **Title** | **Description** |
| 1 | State Name | The name of the state in the U.S. where the AQI measurement is recorded. |
| 2 | County Name | The name of the county within the state where the AQI measurement is taken. |
| 3 | State Code | FIPS code that uniquely identifies each state in the U.S. |
| 4 | County Code | FIPS code that identifies each county within a state |
| 5 | Date | The date when the AQI measurement was recorded |
| 6 | AQI | A numerical value that represents the level of air quality, calculated based on concentrations of pollutants. The AQI scale typically ranges from 0 to 500, with higher values indicating worse air quality. |
| 7 | Category | The health-related category that corresponds to the AQI value. Common categories include "Good," "Moderate," "Unhealthy for Sensitive Groups," "Unhealthy," "Very Unhealthy," and "Hazardous”.  Refer Table 1 in the assignment for more details. |
| 8 | Defining Parameter | The specific pollutant (e.g., ozone, PM2.5, PM10) that most heavily influences the AQI for that location and date. |
| 9 | Number of Sites Reporting | The total number of monitoring sites in the county reporting data on that date. Multiple monitoring stations can report AQI, and this field indicates how many contributed to the day's data. |
| 10 | Created | The date and time when this AQI data record was initially created in the system (synthetic data created for the assignment) |
| 11 | Last Updated | The date and time when this AQI data record was last updated in the system (synthetic data created for the assignment) |