

Data Dictionary — Milestone 1

Project: Air Quality (EPA AQI) x Respiratory Admissions (CDC NHSN HRD)

Table: cdc_m1

- state (TEXT): 2-letter state/territory abbreviation (e.g., FL). Source: CDC HRD.
- week (DATE): Week ending date (normalized to midnight). Source: CDC HRD.
- covid_admissions (FLOAT): Total new COVID-19 admissions reported for the week/state.
- influenza_admissions (FLOAT): Total new influenza admissions reported for the week/state.
- rsv_admissions (FLOAT): Total new RSV admissions reported for the week/state.
- total_respiratory_admissions (FLOAT): Sum of the above admissions (missing treated as 0 in computation).

Table: aqi_m1

- state (TEXT): 2-letter state/territory abbreviation (derived from EPA state name).
- week (DATE): Week ending date (Saturday week; normalized to midnight).
- aqi_mean (FLOAT): Mean AQI for the state-week (from daily county AQI values).
- aqi_p90 (FLOAT): 90th percentile AQI for the state-week.
- aqi_max (FLOAT): Maximum AQI observed in the state-week.
- days_reported (INTEGER): Count of daily AQI records contributing to that state-week (coverage indicator).

Table: merged_m1

- state (TEXT): Join key. Same meaning as above.
- week (DATE): Join key. Same meaning as above.
- Includes all admissions + AQI metrics for matched state-weeks.

Sources

- CDC NHSN HRD: Weekly Hospital Respiratory Data (HRD) Metrics by Jurisdiction
- EPA AQS AirData: Daily AQI by county (annual zip files)