

Check List Select Representative Monitoring Data

Download Monitoring Data

Annual Summary Tables

https://aqhdr1.epa.gov/aqsweb/aqstmp/airdata/download_files.html#Annual

Download at least 3 years of data

Hourly Tables

https://aqhdr1.epa.gov/aqsweb/aqstmp/airdata/download_files.html#Raw

May be need to refine design concentration values when considering short-term concentrations

Design Values

<https://www.epa.gov/air-trends/air-quality-design-values>

Land Use Data

http://www.mrlc.gov/nlcd11_data.php

Download Emissions Data

County-wide emissions

Major source emissions

Import Data Into Database Program

Create Database

Import CSV files to database tables

Have all data fields typed as text

Query Data (Emissions)

Select Counties with monitors

Select Emissions of county for each monitor, by pollutant

Select Emissions of county for site of interest, by pollutant

Calculate total, industrial, and mobile source emissions for site of interest, by pollutant

Calculate total, industrial, and mobile source emissions for each monitor, by pollutant

Select Major sources within 10 km of each monitor

Select Major sources within 10 km of site of interest

Select Emissions of major sources within 10 km of each monitor, by pollutant

Select Emissions of major sources within 10 km of site of interest, by pollutant

Group emissions by distance, by pollutant

Query Data (Land Use)

Select area within 10 km of each monitor

Select area within 10 km of site of interest

Calculate percentage of area of each land use category for each monitor

Calculate percentage of area of each land use category for site of interest