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August 31 2013

Pima County DEQ AIR Info Now Data Reports
<http://www.airinonow.com/monsites/report.asp>

Pima County's own Department of Environmental Quality releases its hourly data through the AIR Info Now site. This data set includes various atmospheric chemistry and aerosol measurements from multiple locations in the Pima County area with a concentration of monitor locations within the Tucson City limits. To go with the atmospheric chemistry data, common meteorological parameters (temperature, humidity, wind variables) are also included to provide more useful analysis opportunities. This is especially true when analyzing the production and transport of ozone, which is heavily driven by higher temperatures. This also explains why shelter temperature is also provided when it is applicable.

As with all forms of atmospheric observations, issues can occur that cause problems during data analysis. This is especially true in this case where autonomous instruments are taking measurements over long periods of time with little to no human interactions needed. This data set, along with the numerical atmospheric information, also provides qualitative issues that could have occurred while monitoring (power failures, invalid values, etc.) adding to quality of the data collected.

The current limitations of using this resource are its temporal resolution and retrieval methods. Each data point is given in one hour periods. For extreme and short aerosol events, the provided temporal resolution may be inadequate for analysis. The issue in retrieving the data is a bit limited. You can only retrieve data from one site at a time, and you can only retrieve a week's worth of data per requested report. Extra steps will be needed to combine data sets for a larger area as well as a longer time period being analyzed.