<https://aqs.epa.gov/aqsweb/airdata/FileFormats.html>

**Outline:**

1)Loop through states and collect them in a column in a data frame

2)Pick one parameter.. – ozone , nitrogen dioxide(42602)

3)Pick a year -2017

4)Data points that are useful:

* Arithmetic mean
* Std Dev
* Observation count
* Units of measurement
* 1st Max value
* 1st maxdatetime
* Take all 4 max values and time
* Pollutant standard
* Metric used
* Primary Exceedance Count

**Sources of news article**:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3943902/>

**CSV File – columns needed:**

* **LocationAbbr**
* YearEnd
* LocationDesc
* Data Value

**Link for the Source API** - https://dev.socrata.com/foundry/chronicdata.cdc.gov/hn4x-zwk7

Socrata API Key 5hvfvjz7u8f7yolac1cag8wzj[7:19 PM] Socrata Key Secret 1bn6x6dnphrzucy81r5ixri69cl5mtgigazfvfbekokuc3unwn

**Pseudo code:**

Drop columns not necessary:

Keep only 2017:

Group by state and question

Get the mean, standard deviation etc of the data value

Split up the questions into different columns ( Use iloc)

Go to the API and loop through all the states, choose the parameter as nitrous oxide { state}. Create a variable called state and make it loop through the list of states ( by state code).

Get a list of state

Brittany – Graphs