Analysis of Air Pollution and Lung Cancer Rates

Bailey Bjornstad
Ahmed Safdar

Purpose
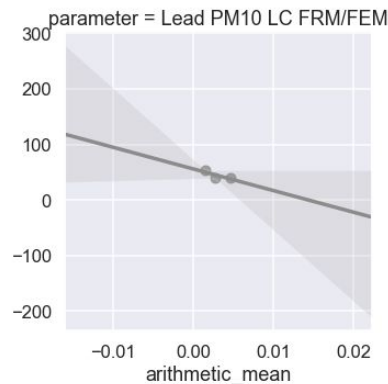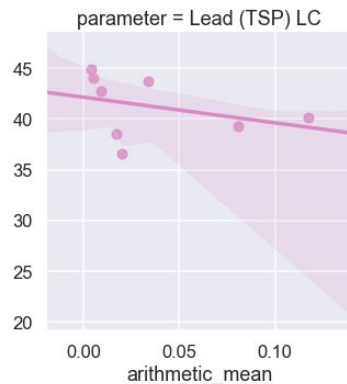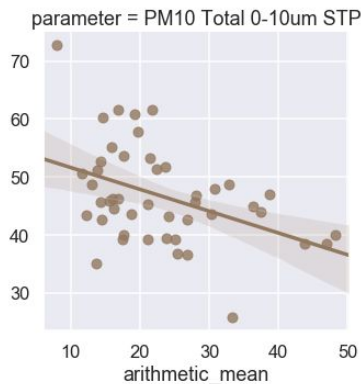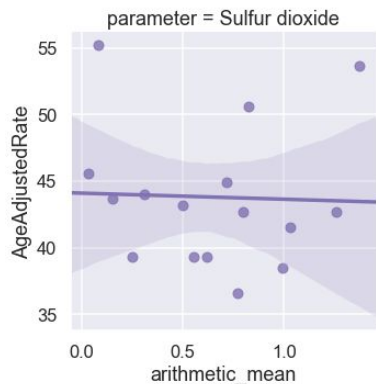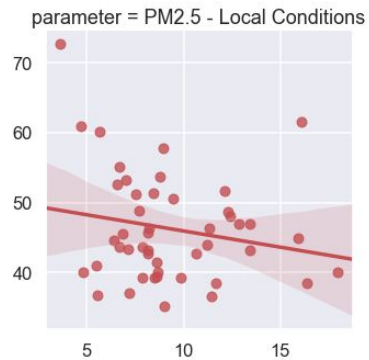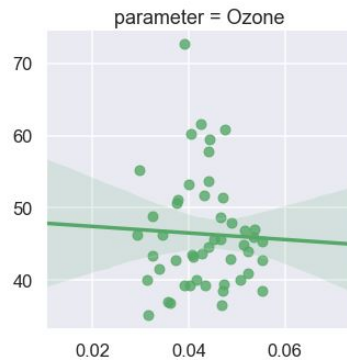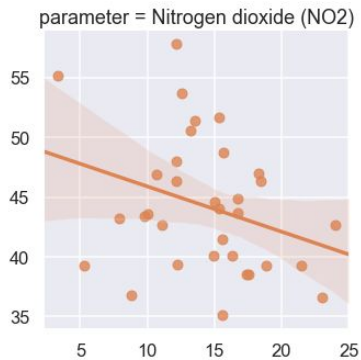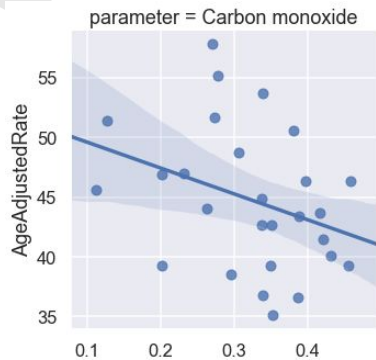
- Determine if there is a correlation between levels of air pollution and rates of lung cancer
- Focused on 4 states for the sake of simplicity

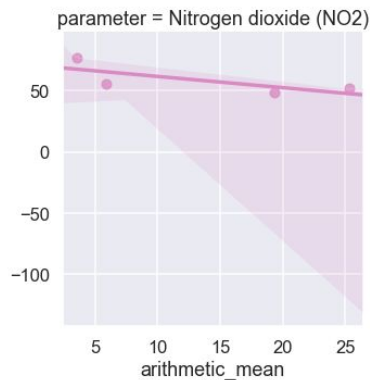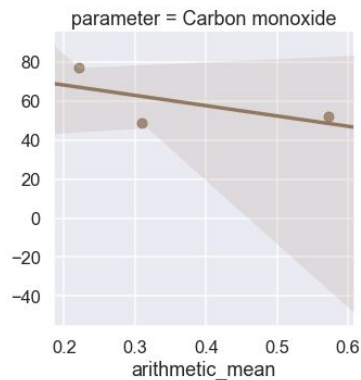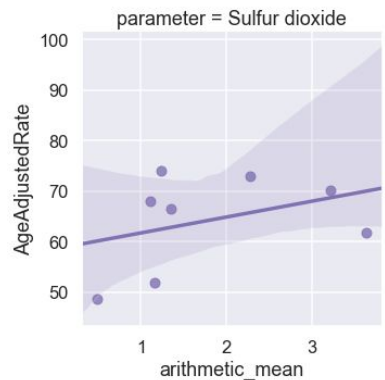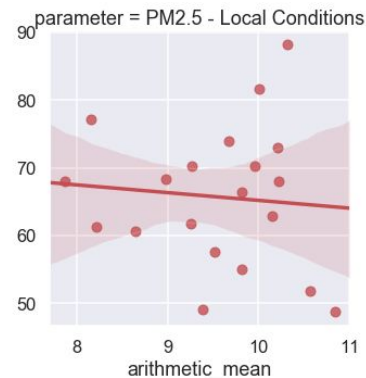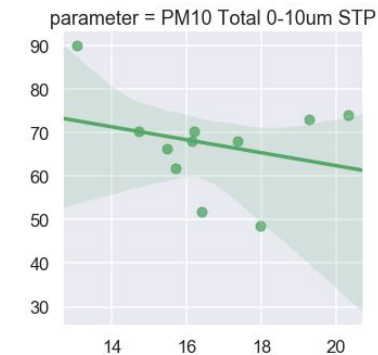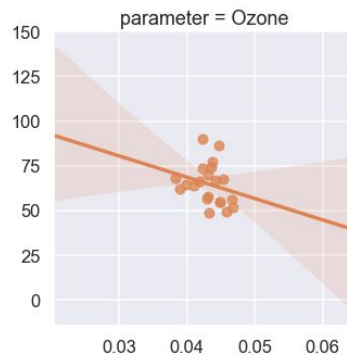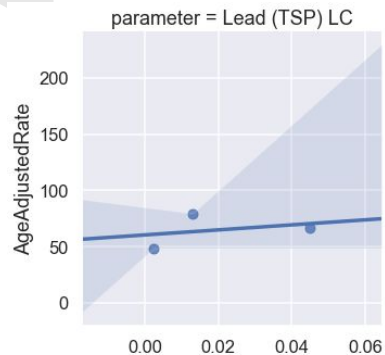# **Sources**

- EPA Air Quality System API
    - pyaqs: custom module to wrap API requests to pandas dataframes
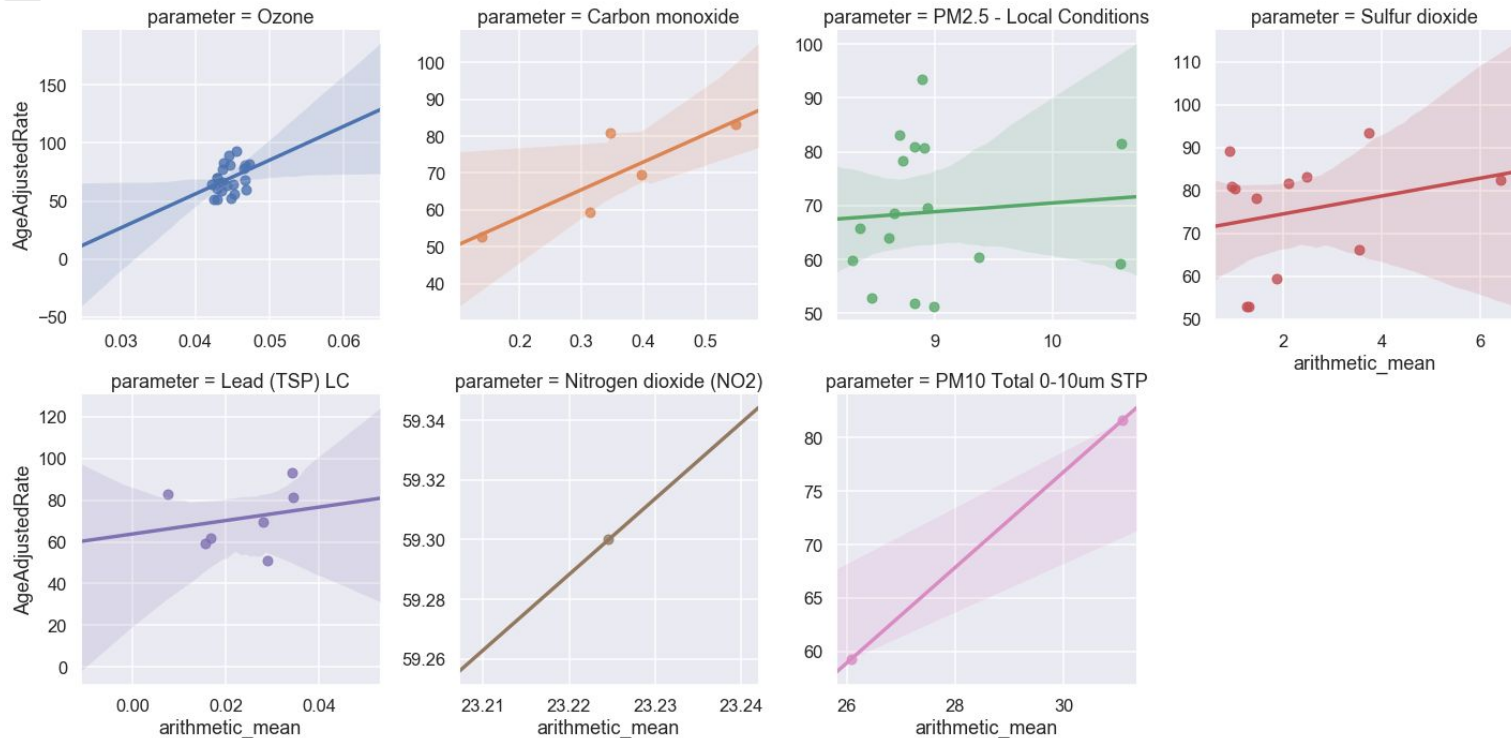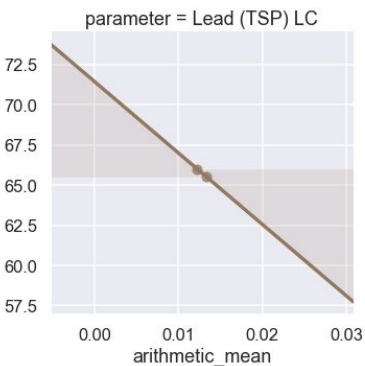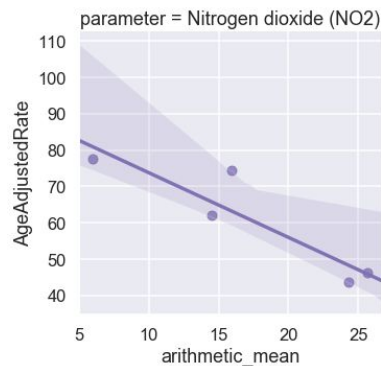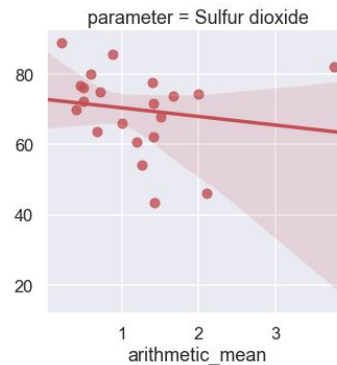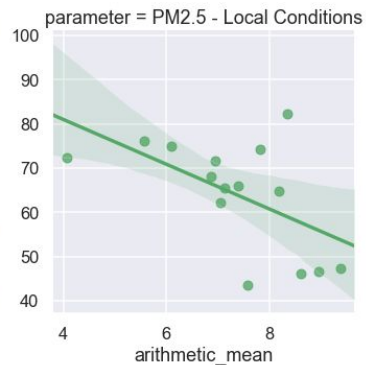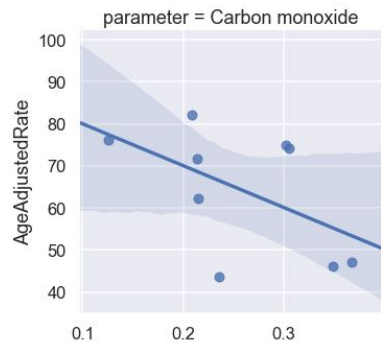- CDC Geographic Information Systems database

Results - CA

Results - GA

Results - IL

Results - NY

Conclusion

- Results: Inconclusive
    - We are unable to make any recommendations due to the lack of data points. Further study is required.
    - Perhaps aggregate over all states, though getting such county data for the entirety of the United States could prove challenging.