Lesson: Graphics

Patricia Hoffman, PhD

Basic Graphics

- The Homework Questions
 - HoffmanHWQuestGraph.pdf
- The Sample Code
 - graphSimple.R
 - graphDetailedSimple.R

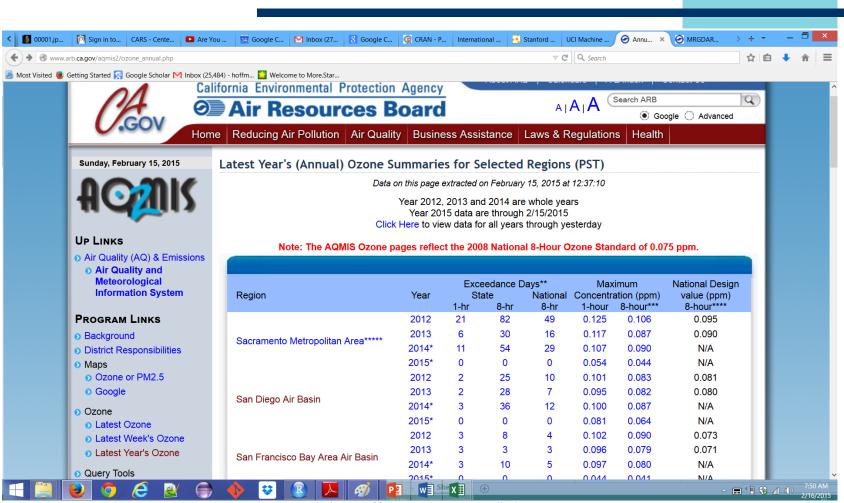
Lattice and ggplot Graphics

- The Homework Questions
 - HoffmanHWLatggplot.pdf
- The Sample Code
 - latticeSimple.R
 - ggplot.R

Data Sets

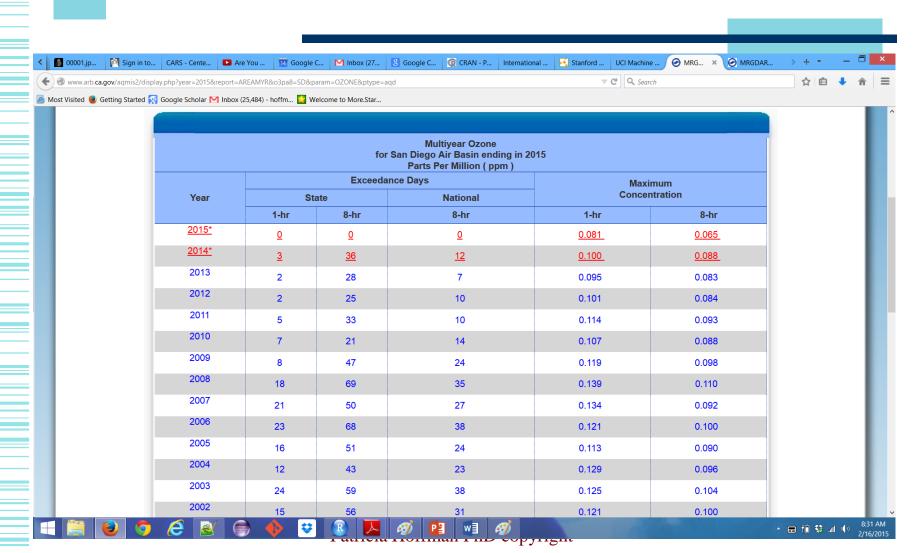
- Data Files
 - AirQualitySanFraciscoData.csv
 - AirQualitySanDiegoData.csv
- Data Set
 - state

Web Site as seen in February 2015 http://www.arb.ca.gov/aqmis2/ozone_annual.php

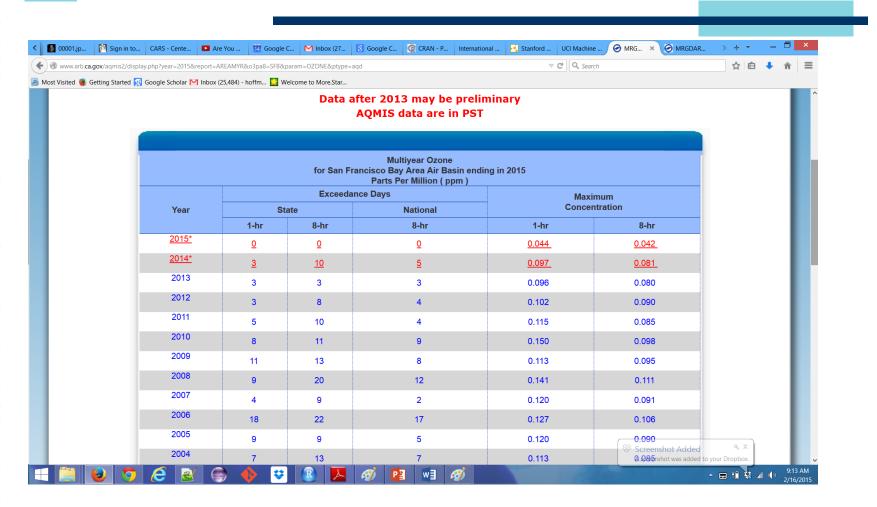


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San Diego Air Basin ending in 2015 Parts Per Million (ppm)



San Francisco Air Basin Parts Per Million (ppm)



States Data Set

- states {datasets}
 - state.abb
 - state.area
 - state.center
 - state.division

- state.name
- state.region
- state.x77

- U.S. Department of Commerce, Bureau of the Census (1977) Statistical Abstract of the United States.
- U.S. Department of Commerce, Bureau of the Census (1977) *County and City Data Book*.

state.x77

matrix with 50 rows and 8 columns giving the following statistics in the respective columns.

- Population:
 - population estimate as of July 1, 1975
- Income:
 - Per capita income (1974)
- Illiteracy:
 - illiteracy (1970, percent of population)

state.x77

- Life Exp:
 - life expectancy in years (1969–71)
- Murder:
 - murder and non-negligent manslaughter rate per 100,000 population (1976)
- HS Grad:
 - percent high-school graduates (1970)
- Frost:
 - mean number of days with minimum temperature below freezing (1931–1960) in capital or large city
- Area:
 - land area in square miles