



Managing Air Quality in the U.S.

A trip back in time.....



Air Pollution – A Brief History

- 1306: Queen Eleanor (wife of Edward the 1st) complained about dirty air – led to first air pollution ordinances

Meuse Valley, Belgium 1930



Air inversion results in 60 dead and thousands sick from exposure to industrial air emissions.

The Smoky City – Pittsburgh



1906-1910

New York City



Constructing the Empire State Building in the NY smog - **1930**



Credit: Neal Boenzi/NYT Pictures

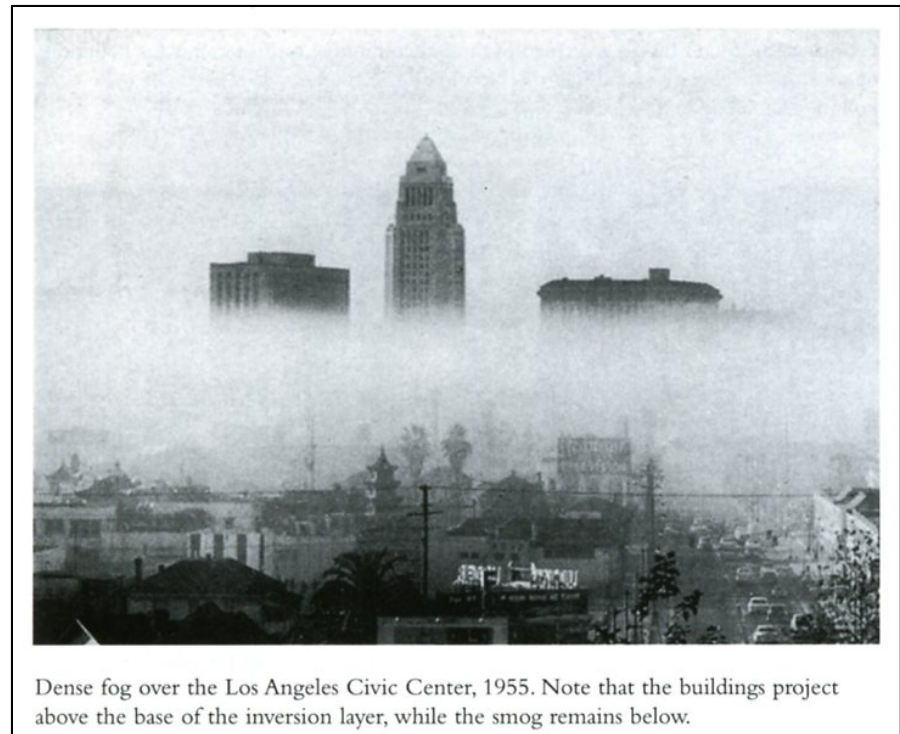
1966: New York City buried under a sea of smog.



Donora, PA 1948



Los Angeles 1955



Dense fog over the Los Angeles Civic Center, 1955. Note that the buildings project above the base of the inversion layer, while the smog remains below.


London – 1952





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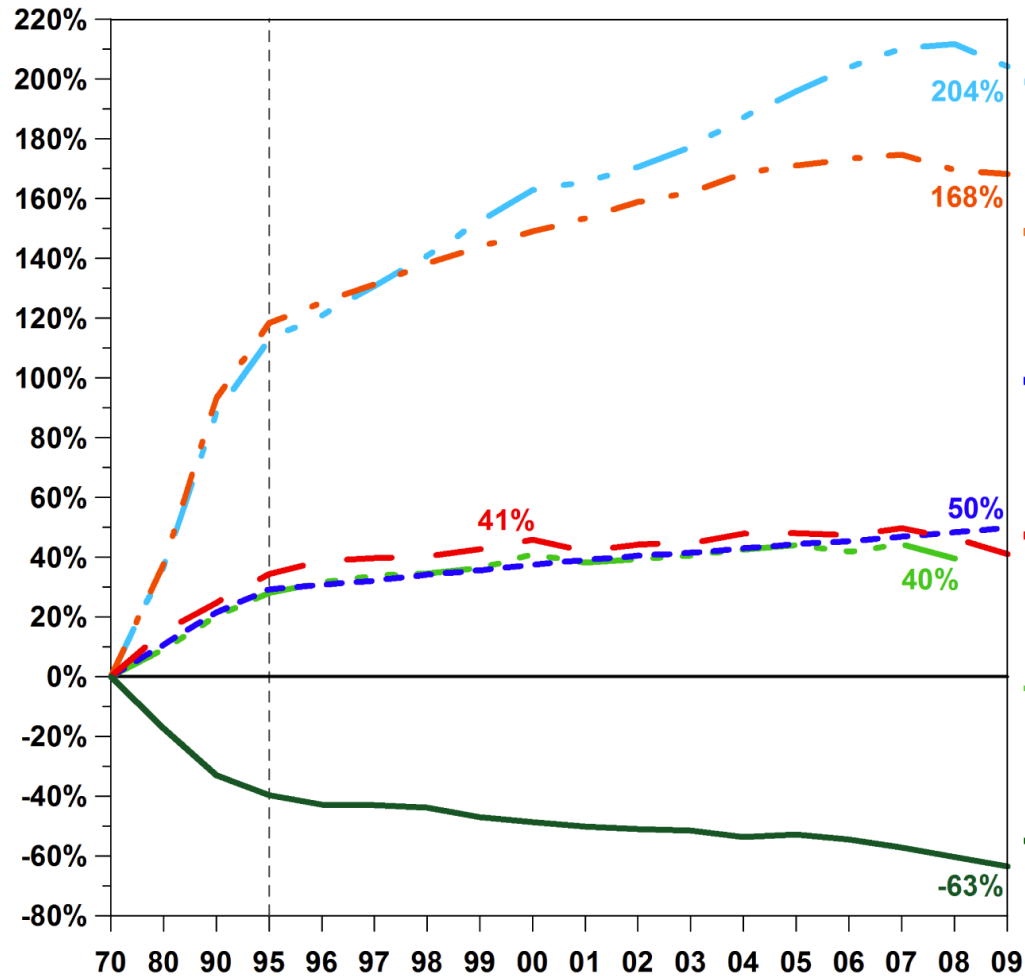
- 1930: 60 die in Belgium
- 1948: 20 die in Donora PA
- 1952: 4,000 die in London



Its July 9, 1970 ...

- President Nixon is looking for the first Administrator of the Environmental Protection Agency
- What are you going to do?

Comparison: Growth Measures and Emissions 1970 - 2009



Gross Domestic Product



Vehicle Miles Traveled



Population



Energy Consumption



CO₂ Emissions



Aggregate Emissions
(Six Common Pollutants)