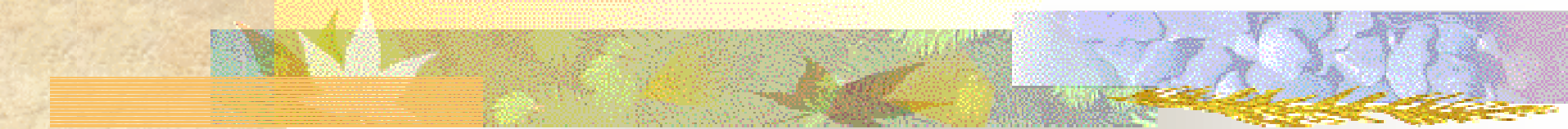


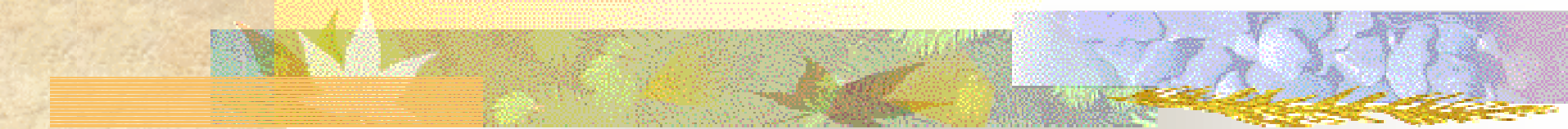
Air Quality Primer

- Monitoring activities
- Monitoring results
- Emission inventory
- Inventory results
- Kansas City ozone
- Nonattainment and consequences
- What can you do
- Educational materials



Monitoring activities

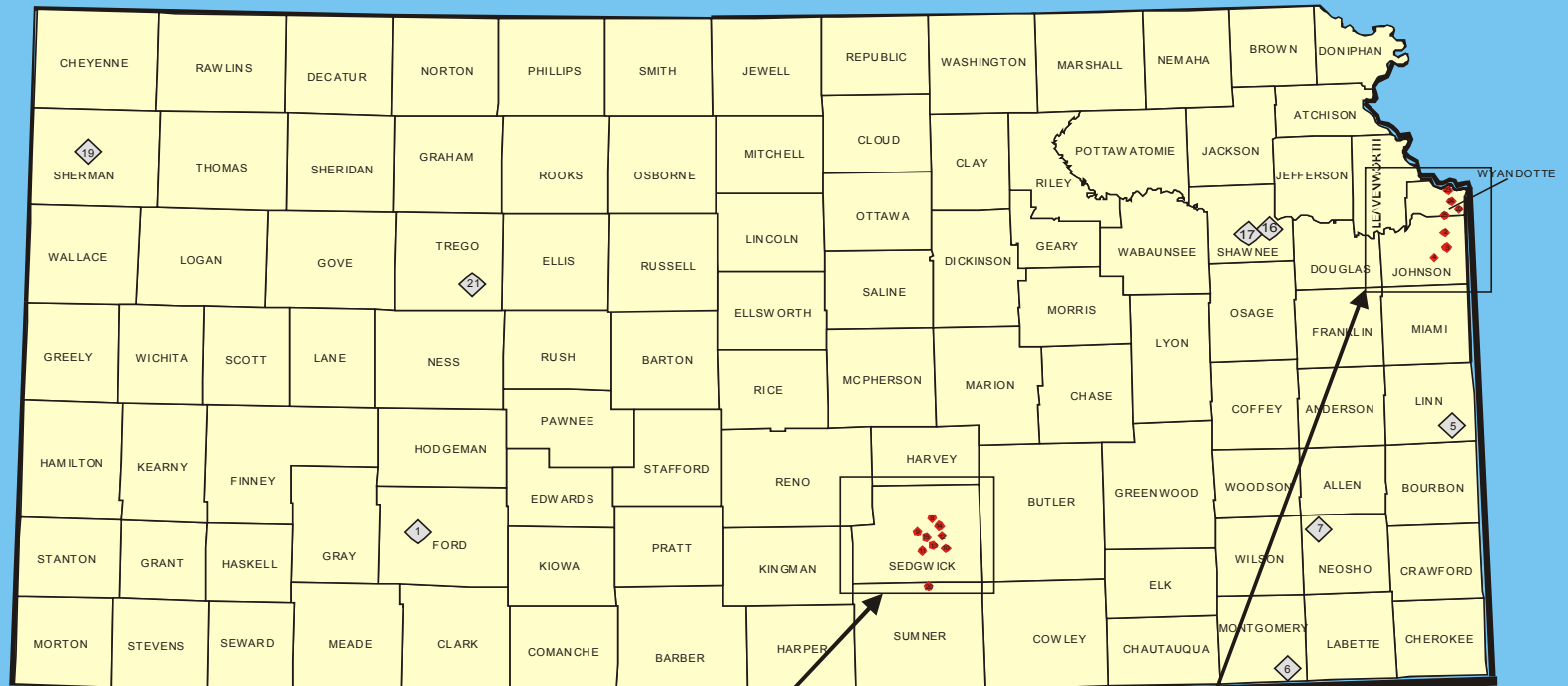
- 23 locations, 47 monitors, 5 met stations, 2 transport sites; 1 background site
- Monitors are generally population based
- Weekly or more frequent visits
- Quality assurance a priority
- Cost of comprehensive site up to \$150,000



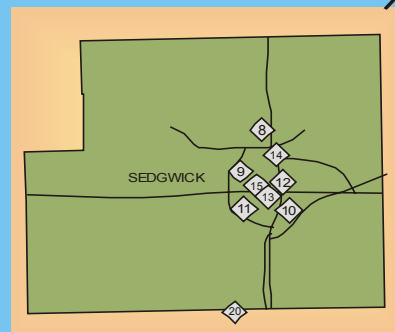
Regulated Air Pollutants

- Ozone (1 hour and 8 hour)
- Particulate Matter (PM_{2.5} and PM₁₀)
- Nitrogen Dioxide
- Sulfur Dioxide
- Carbon Monoxide
- Lead

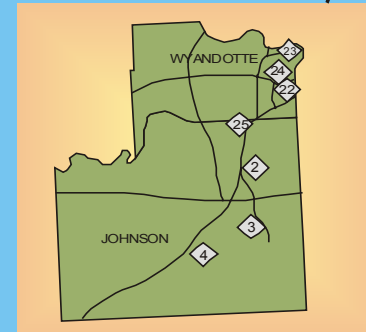
Air Quality Monitoring Sites In Kansas



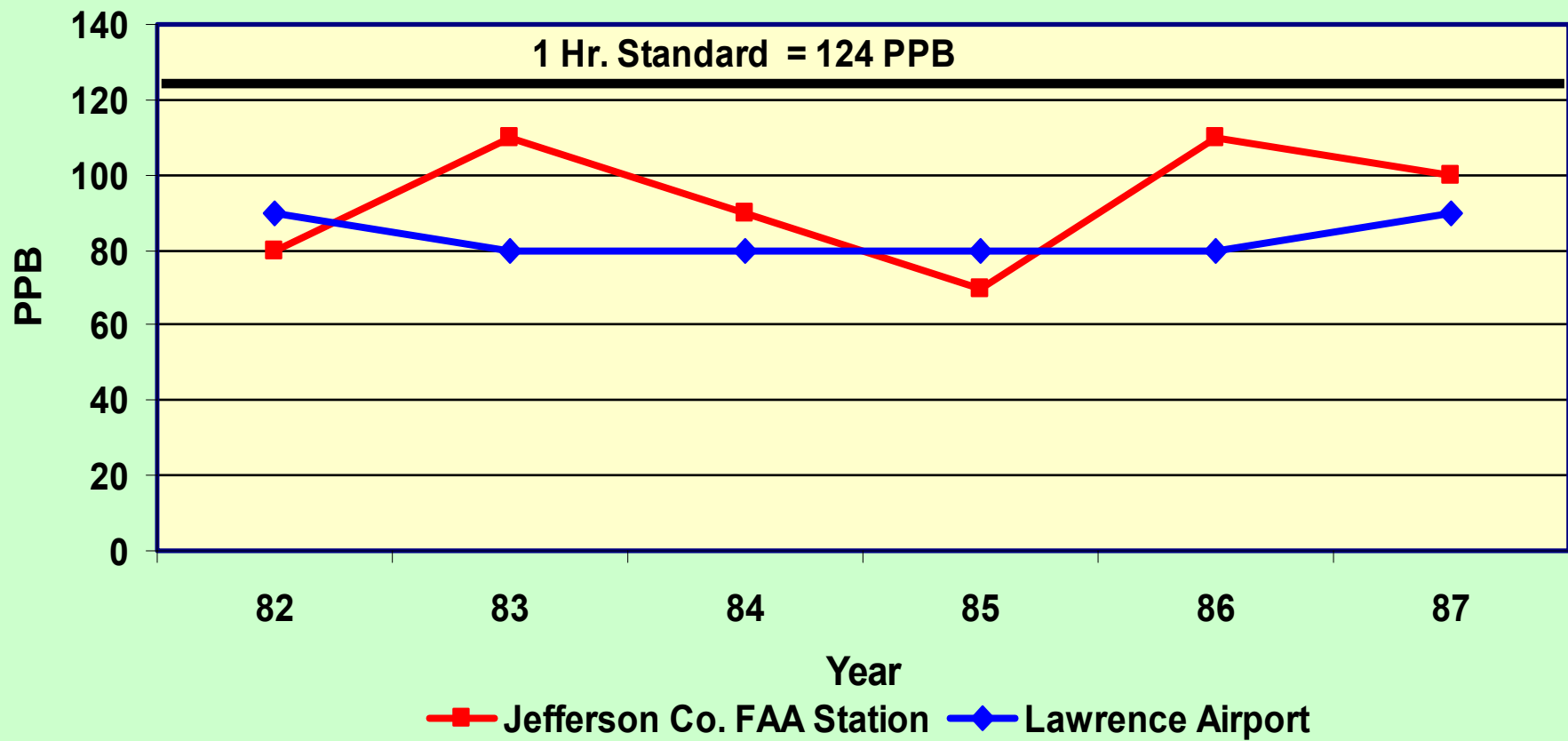
Wichita Area



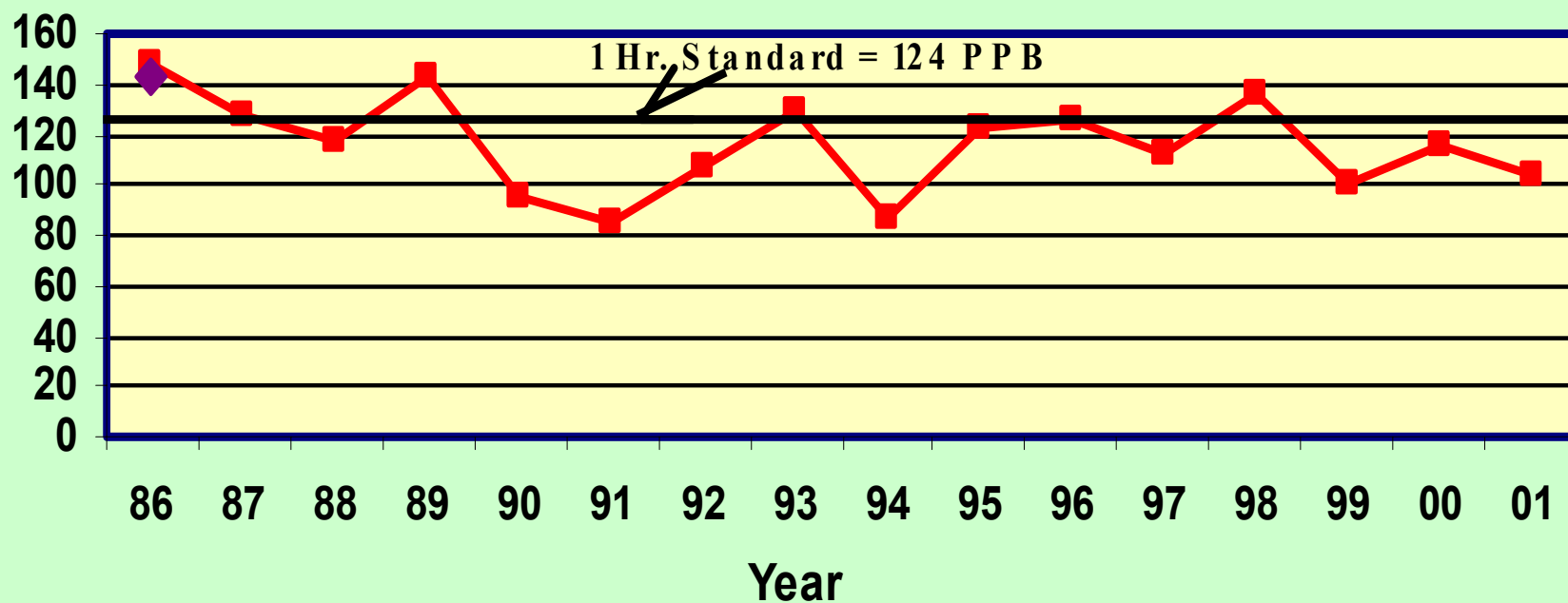
Kansas City Area



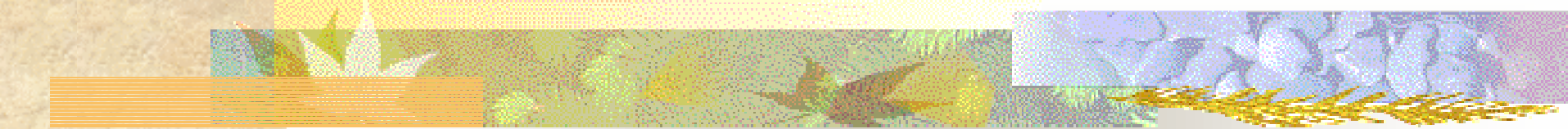
Lawrence Area - Ozone



Kansas City, KS - Ozone



—■— 1st High Daily Maximum 1 Hr. Average ◆ Additional Exceedances

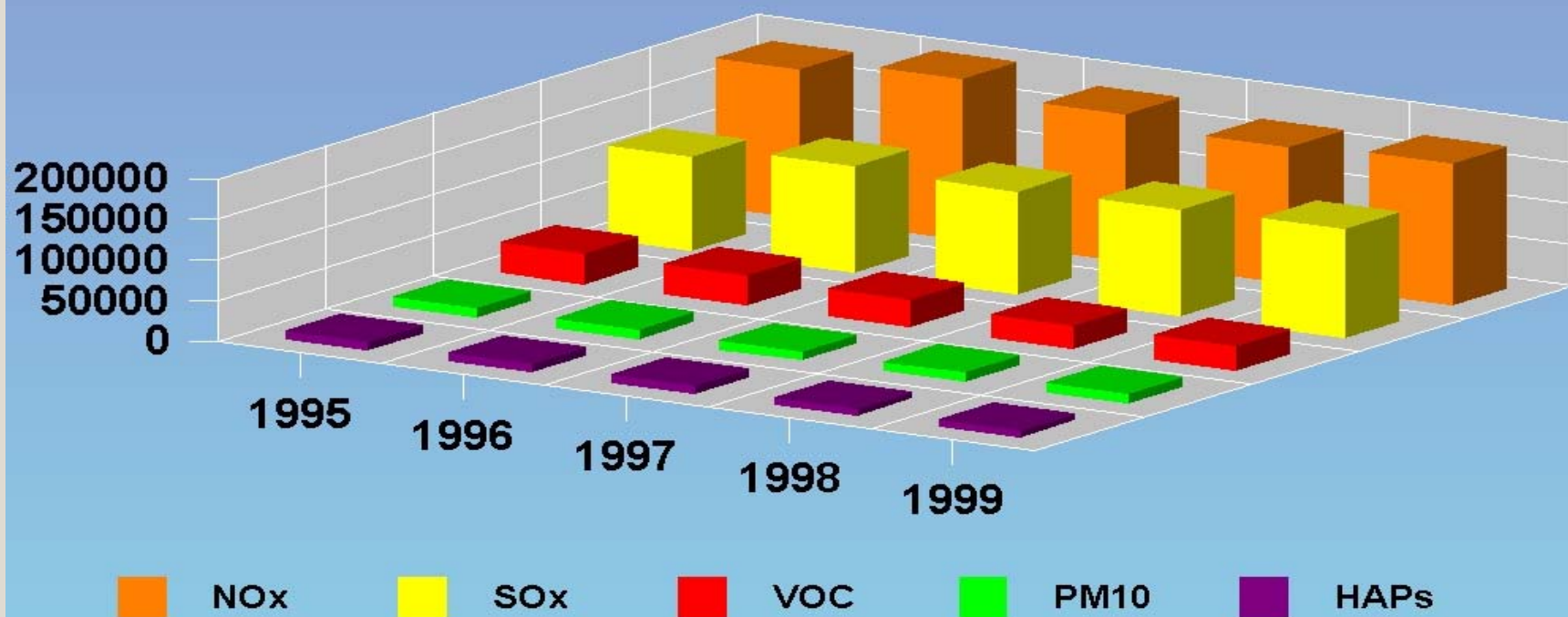


Emission Inventory

- Annual summary of pollutants emitted
- Point, area and mobile sources
- KDHE does point and some area, review others
- Applies to Class I and II permitted facilities
- Used for modeling, SIPs, planning
- Emission fees tied to inventory

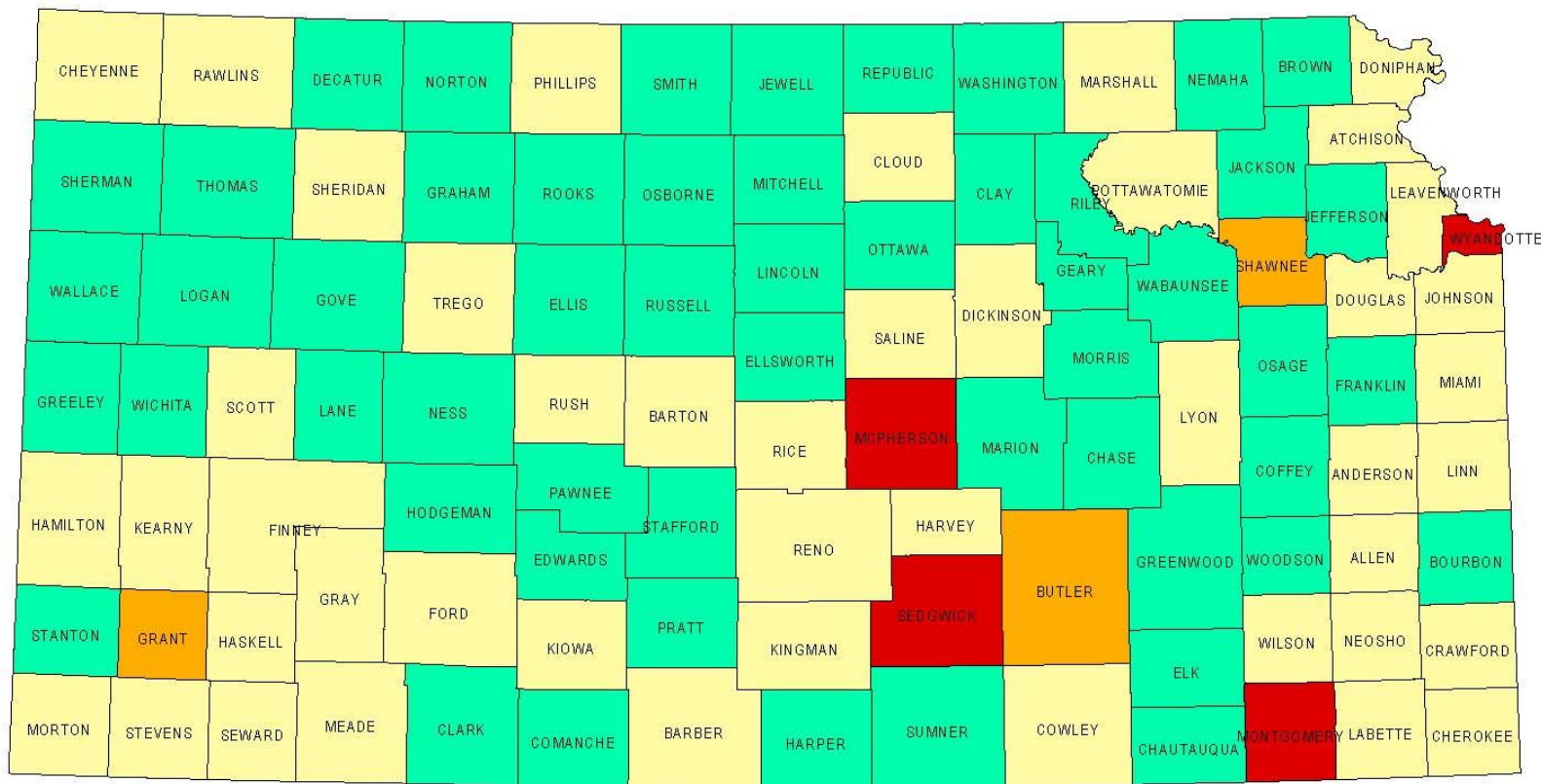
Kansas Air Emission Inventory

Total Reported Emissions - tons



Graph 9

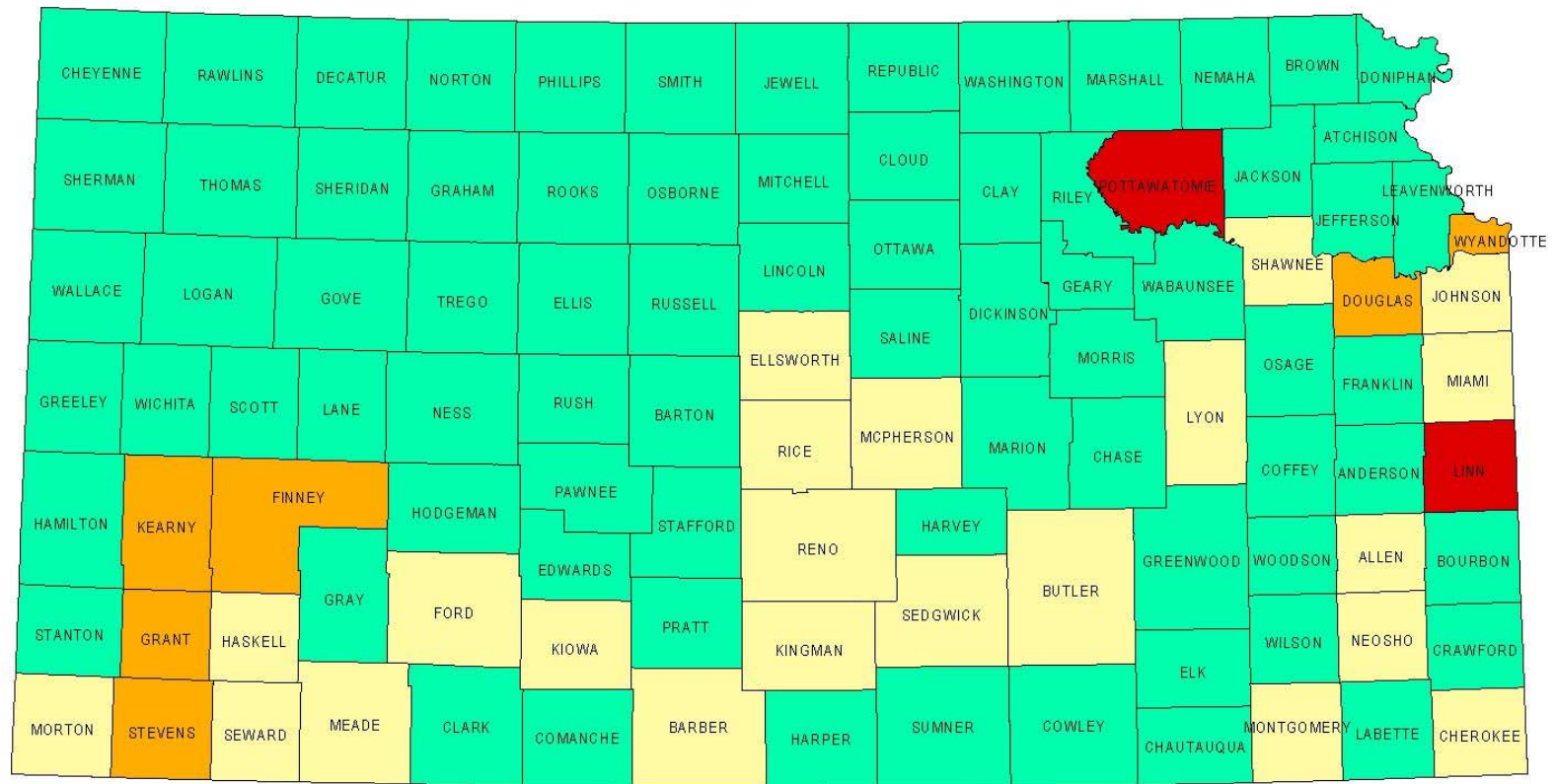
1999 Point Source Volatile Organic Compounds (VOCs) Emissions



VOCs (Tons)

- 0 - 100
- 101 - 1000
- 1001 - 2000
- >2,000

1999 Point Source NO2 Emissions



NO2 (Tons)

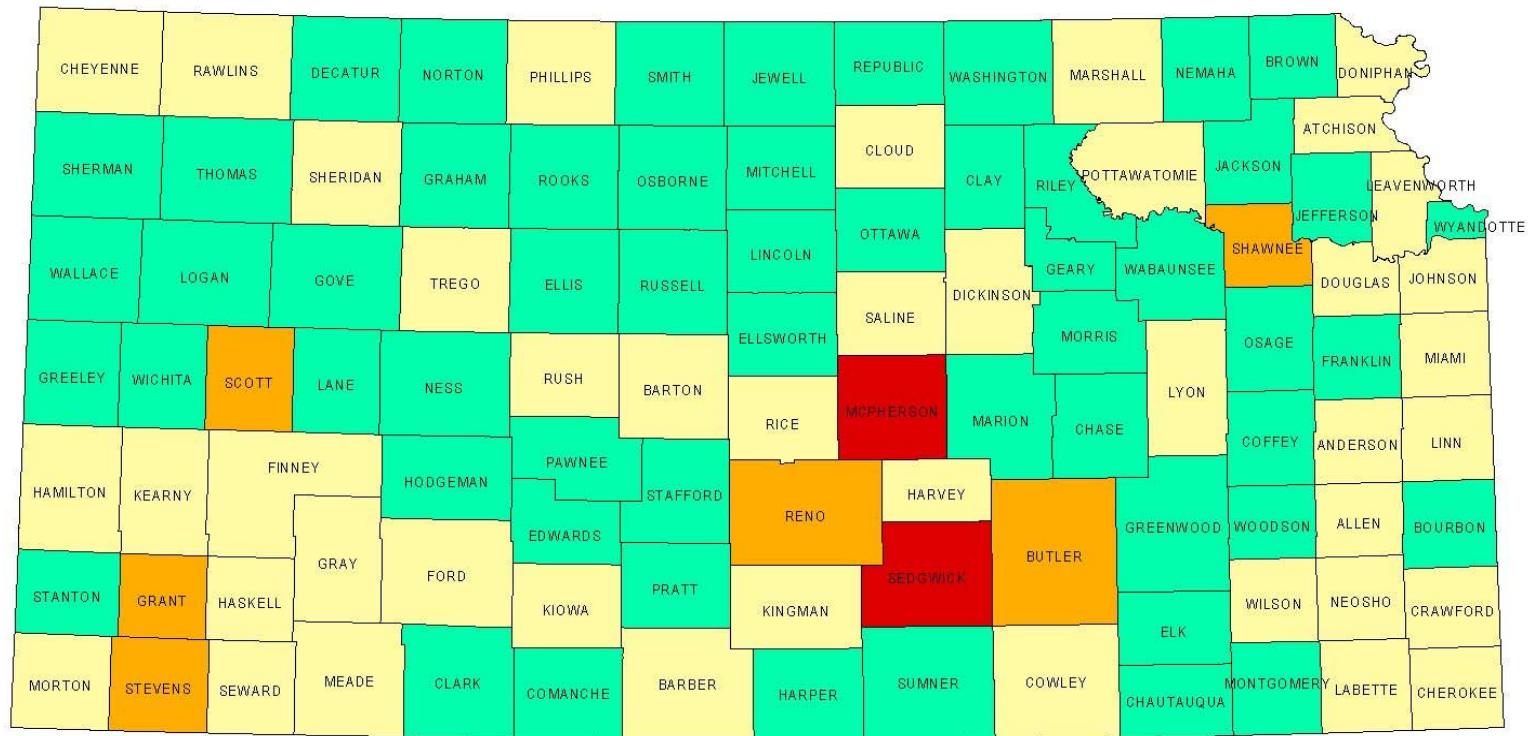
0 - 100

1,001 - 5,000

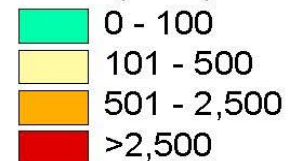
5,001 - 25,000

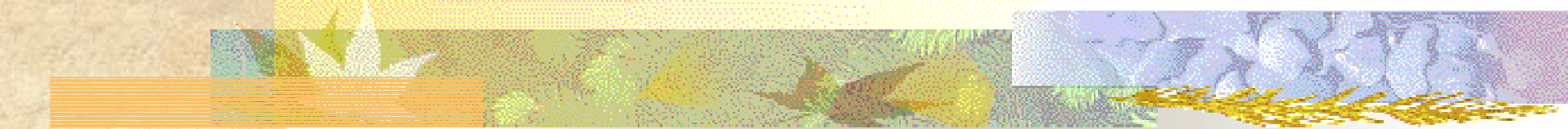
>25,000

1999 Point Source Hazardous Air Pollutants (HAPs)



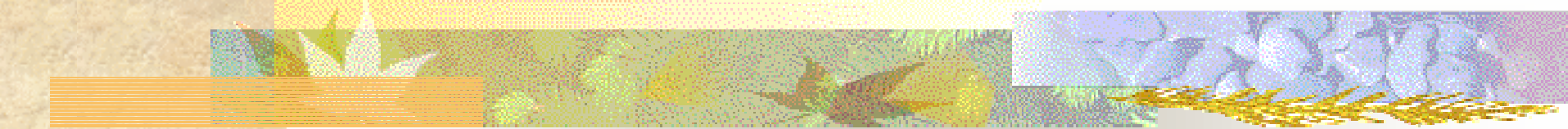
HAPs (Tons)





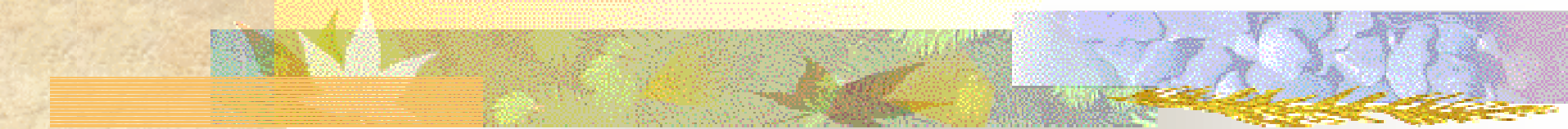
Kansas City Ozone

- Regional modeling
 - Underprediction in city core
 - Overprediction downwind
 - Emission inventory problems
 - Meteorological problems
- Maintenance plan due for 10 year revision
- Conformity analysis underway



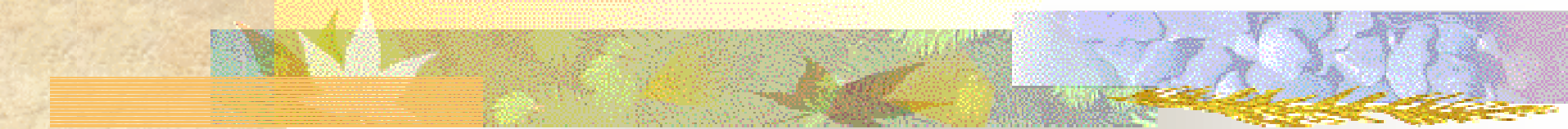
Nonattainment Consequences

- State Implementation Plan (SIP)
- Control strategy development
- RACT rules
- Transportation conformity
- More detailed emission inventory
- Photochemical modeling



What can you do??

- Educate public and decision-makers
- Voluntary pollutant reduction programs
- Monitor Kansas City activities
- Industry assistance through KSU program
- Practice what you preach—park the SUV



Educational Materials

- Posters
- Air quality annual report
- EPA web site
- KDHE web site
- Other state and local agency sites
- American Lung Association