EPA Perspective: Environmental Priorities for Louisiana

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EPA Region 6, Dallas TX

Air & Waste Management Association

EPA Priorities

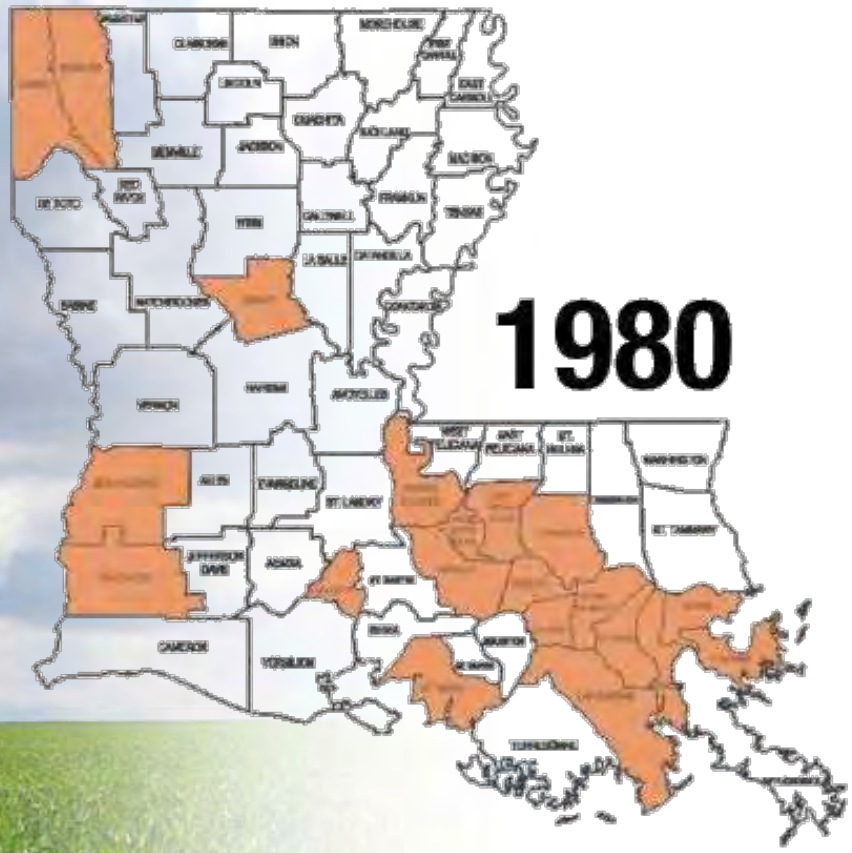
- Improve air quality
- Take action on climate change
- Clean up our communities
- Protecting America's waters

Improving Air Quality
- NAAQS -

- Meeting the new NAAQS
  - Designations
  - Progress
  - Challenges

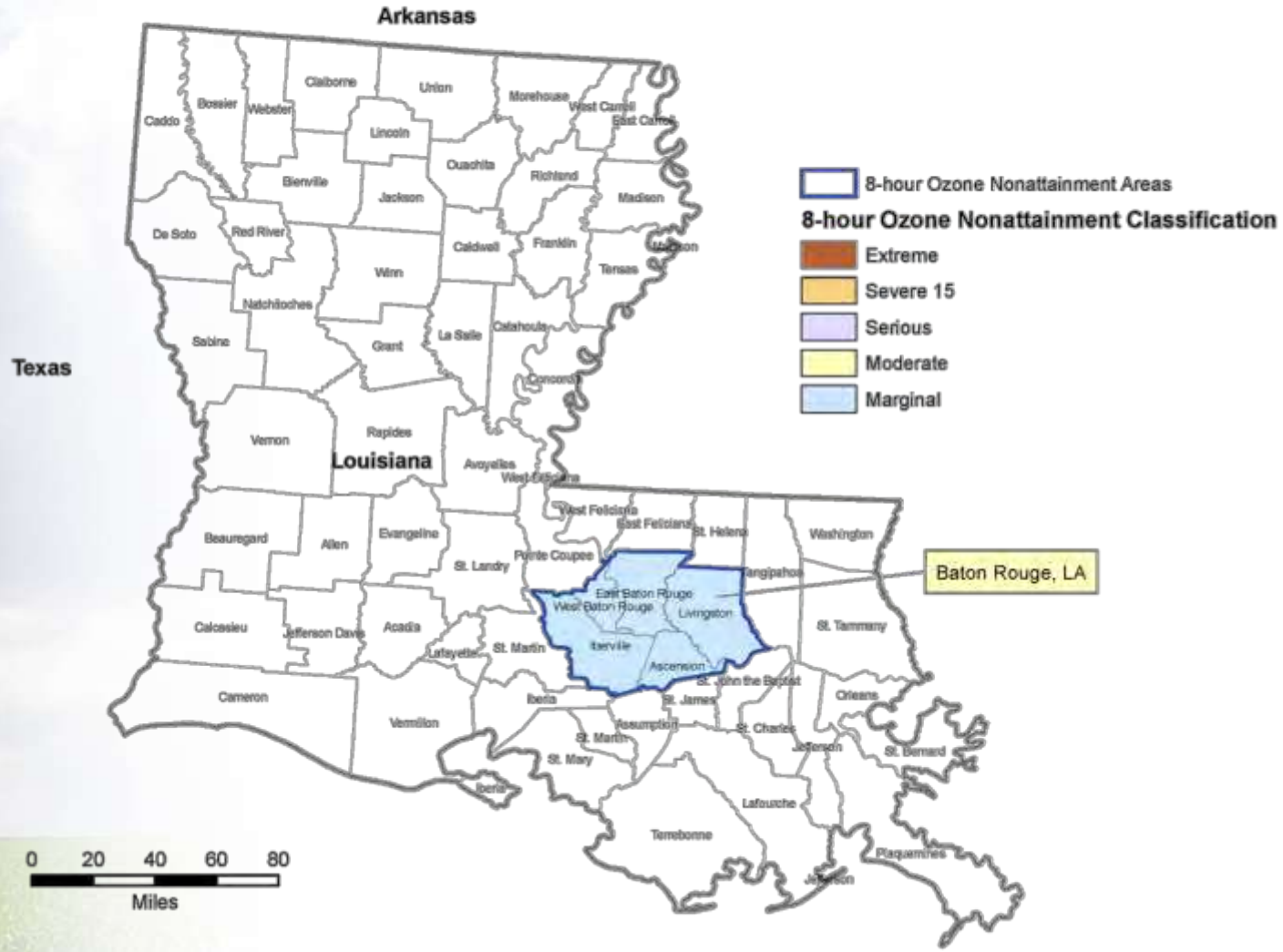
Louisiana Ozone Nonattainment Areas

124 ppb 1-HR and 85 ppb 8-HR Standards

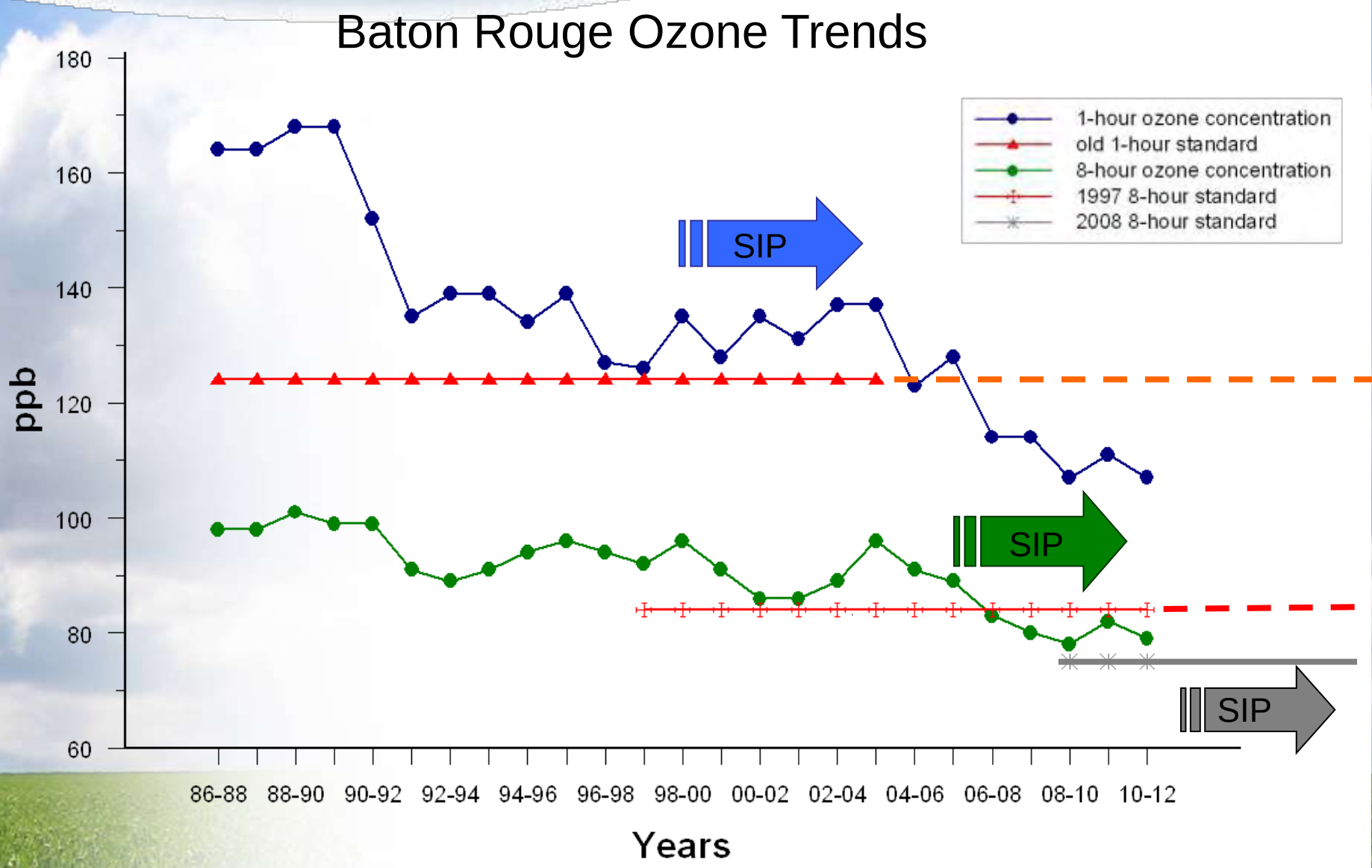


Air Quality
- Ozone -

Louisiana 8-hour Ozone Nonattainment Areas (2008 Standard)



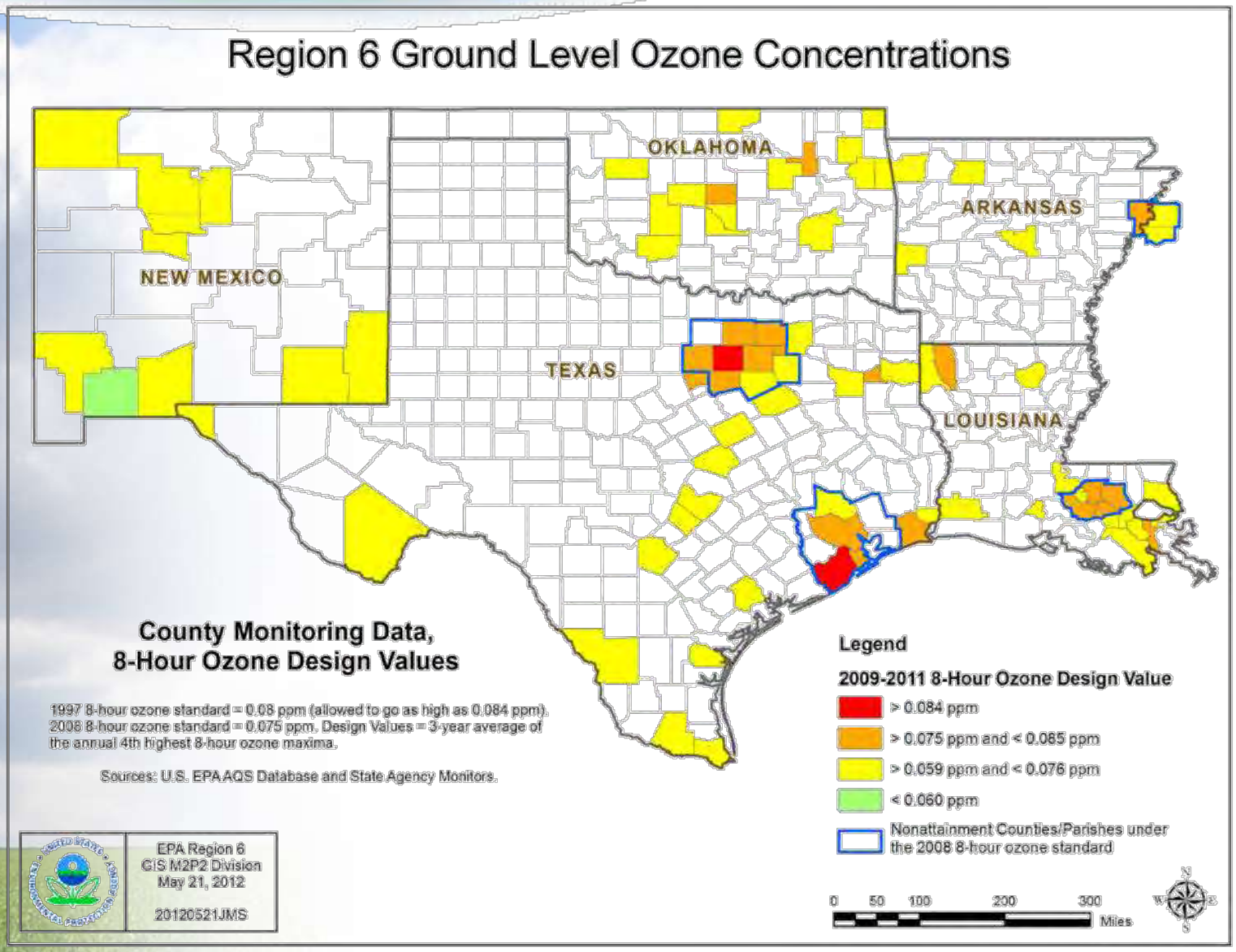
Air Quality
- Ozone -



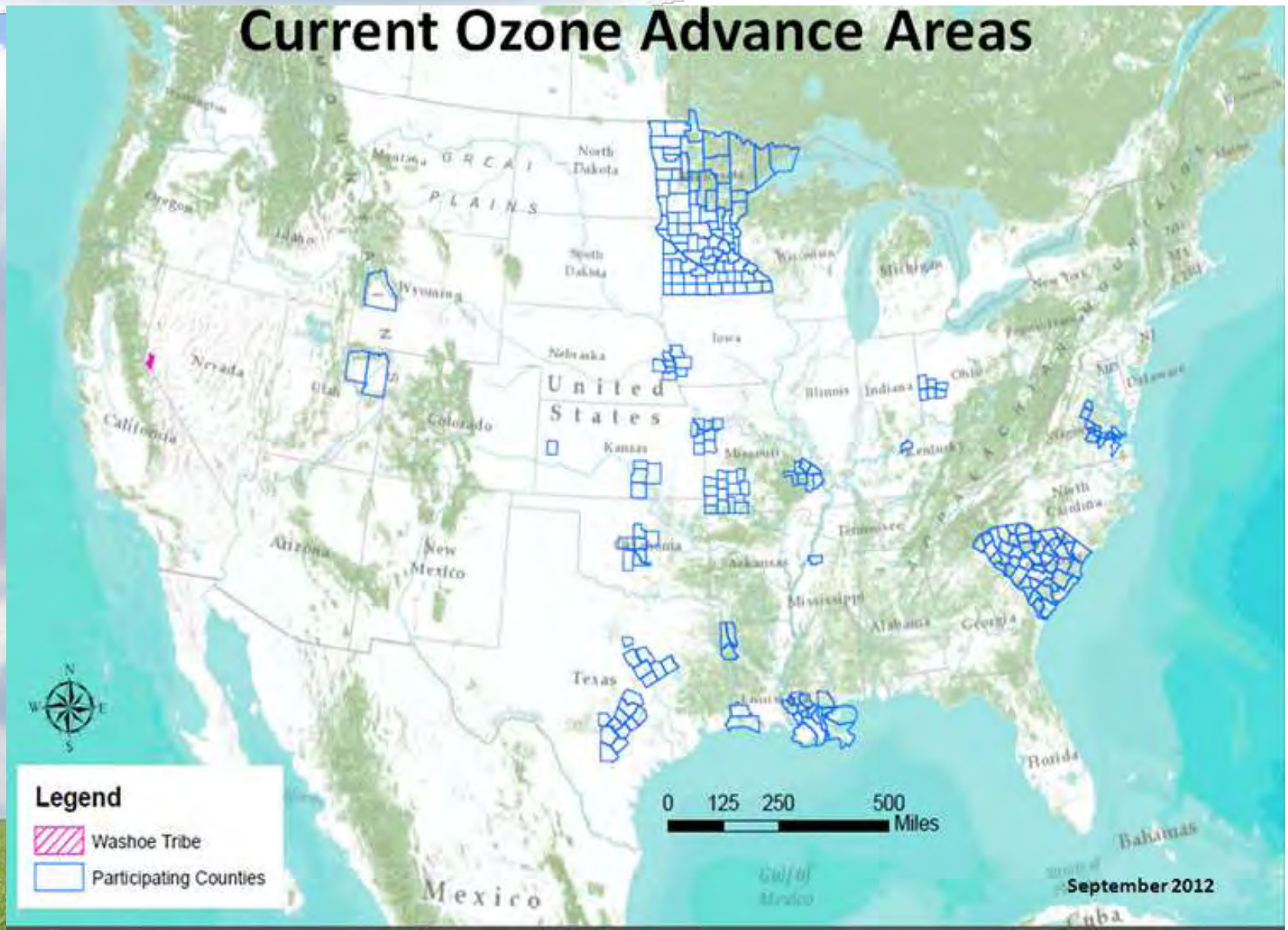
NAAQS Schedules

	NO_2/SO_2 2NDY	PM	O3	Pb	NO_2	SO_2	CO
CURRENT	MAR 2012	OCT 2006	MAR 2008	OCT 2008	JAN 2010	JUN 2010	JUN 2011
PROPOSED	MAR 2017	JUN 2012	2013	JAN 2014	AUG 2015	FEB 2016	JUL 2016
FINAL	DEC 2017	DEC 2012	2014	NOV 2014	MAY 2016	NOV 2016	APR 2017

Air Quality: Measured Ozone vs 75 ppb Std.



Air Quality
- Ozone -



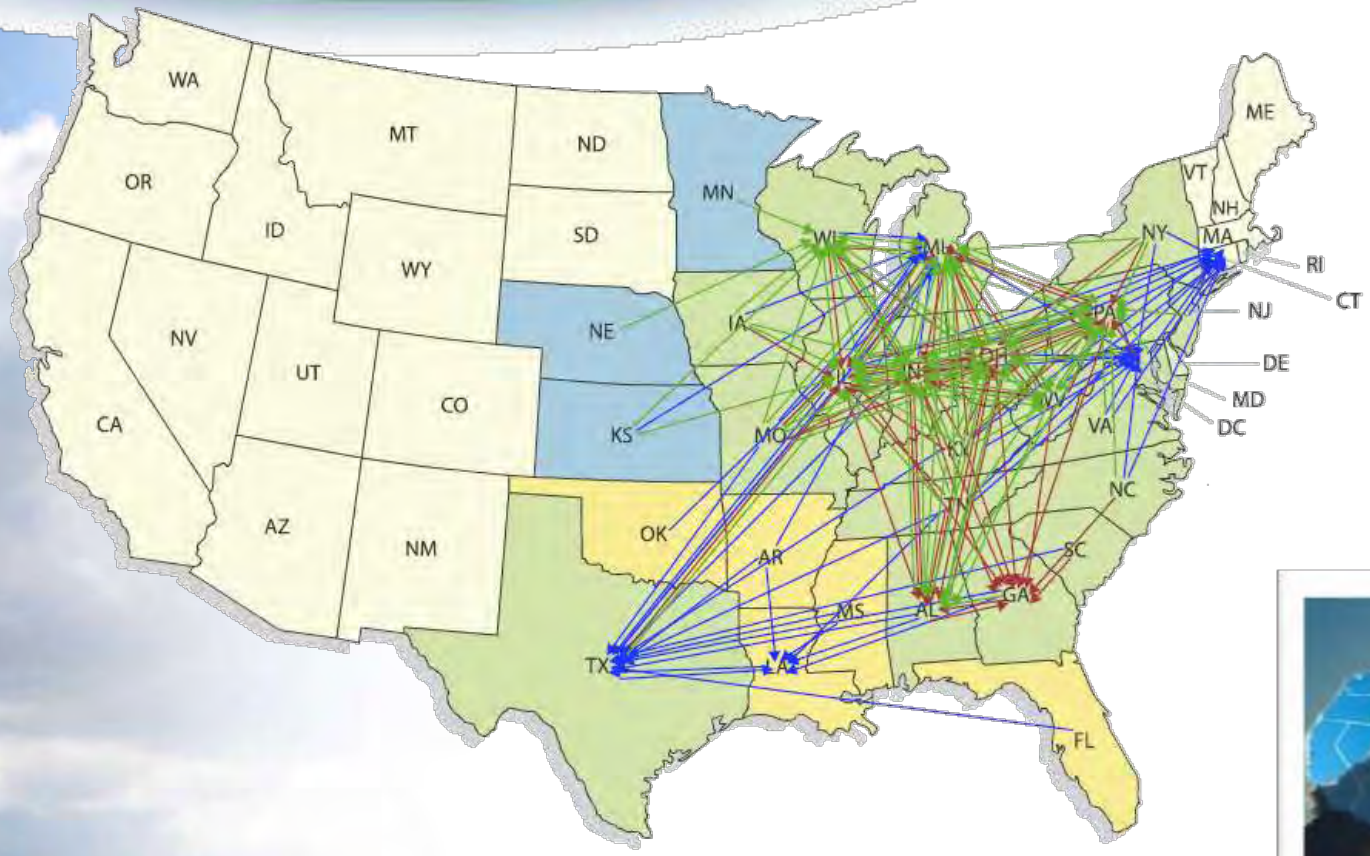
Air Quality

- Measured Sulfur Dioxide -

> 75 ppb measured 2009-2011

Air Quality

- Cross State Air Pollution Rule (CSPAR) -



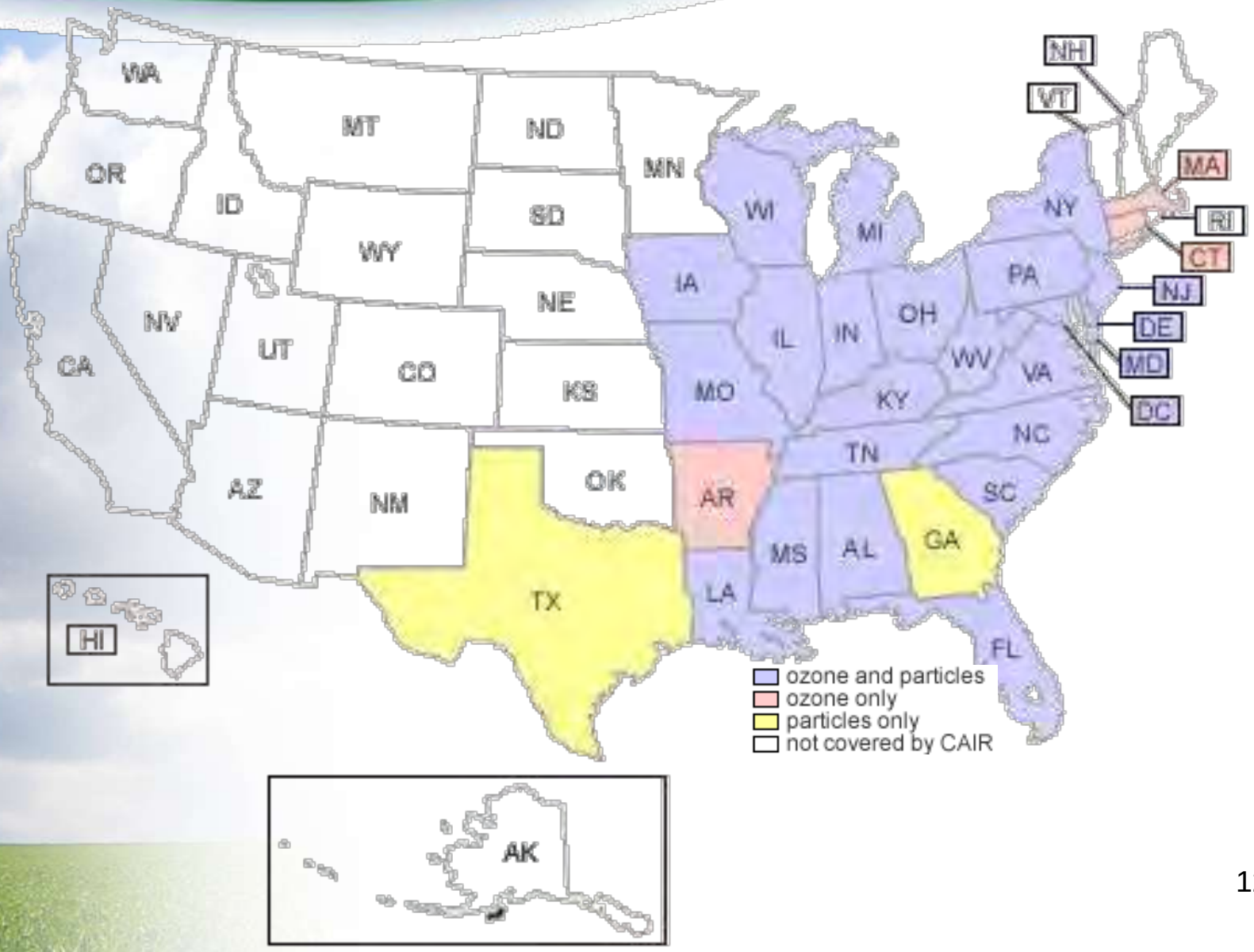
Legend

- States controlled for both fine particles (annual SO_2 and NOx) and ozone (ozone season NOx) (20 States)
- States controlled for fine particles only (annual SO_2 and NOx) (3 States)
- States controlled for ozone only (ozone season NOx) (5 States)
- States not covered by the Cross-State Air Pollution Rule

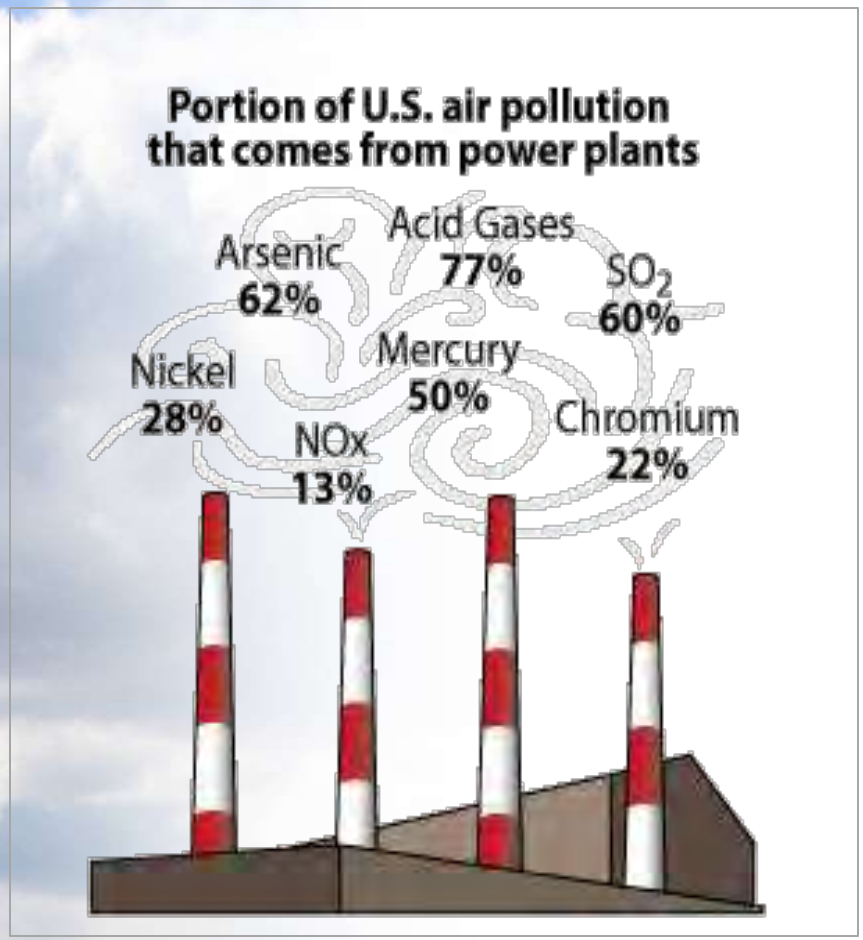
Key to Arrows

- Upwind-Downwind Linkage for Ozone
- Upwind-Downwind Linkage for Annual $PM_{2.5}$
- Upwind-Downwind Linkage for Daily $PM_{2.5}$

States Covered by the Clean Air Interstate Rule (CAIR)



Air Toxics Standards
Why Focus on Power Plants?



About **50%**

of coal-burning units are over 40 years old

Over **40%**

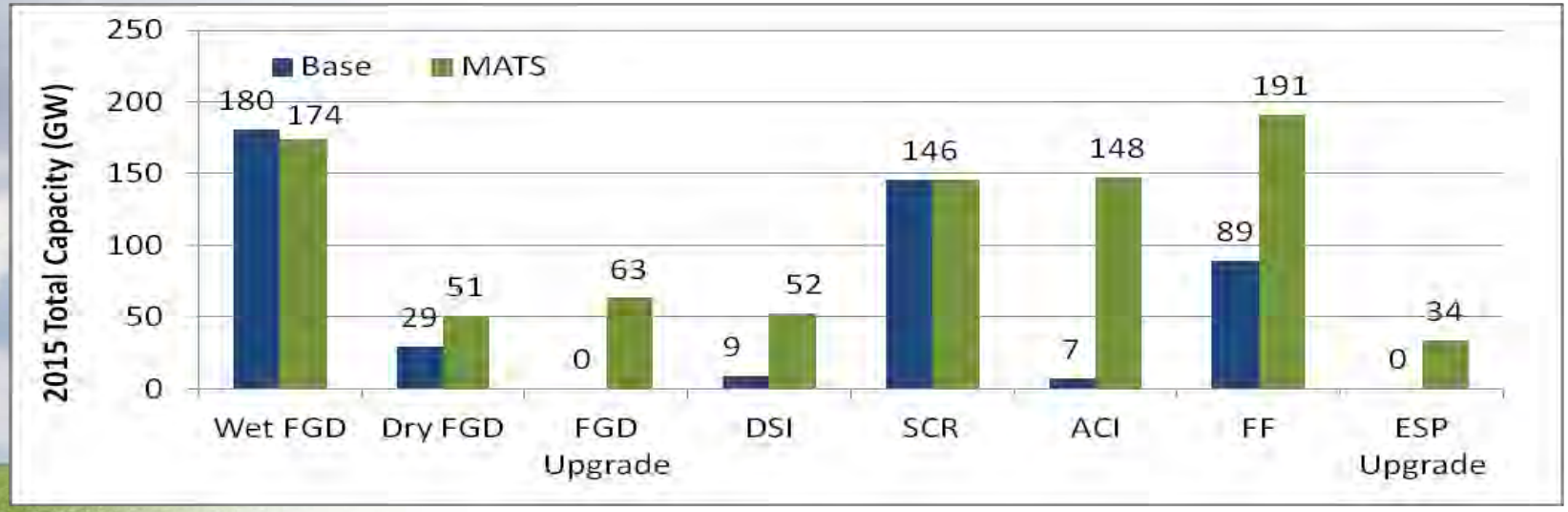
of coal-burning units do not have modern controls are over 40 years old

MATS Coverage

MATS Covers Approximately 1100 Coal- and 300 Oil-fired Units > 25 MW at about 600 Power Plants Nationwide.

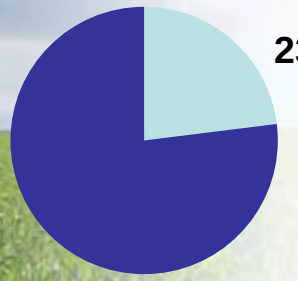
Sources Can Achieve These Standards

- **Proven control technologies include scrubbers, fabric filters, and activated carbon injection and are widely available**
- Many units already use one or more of these technologies
- Some plants will upgrade existing controls (e.g. electrostatic precipitators)
- Some plants may also install new controls (e.g. fabric filters, dry sorbent injection, or activated carbon injection)

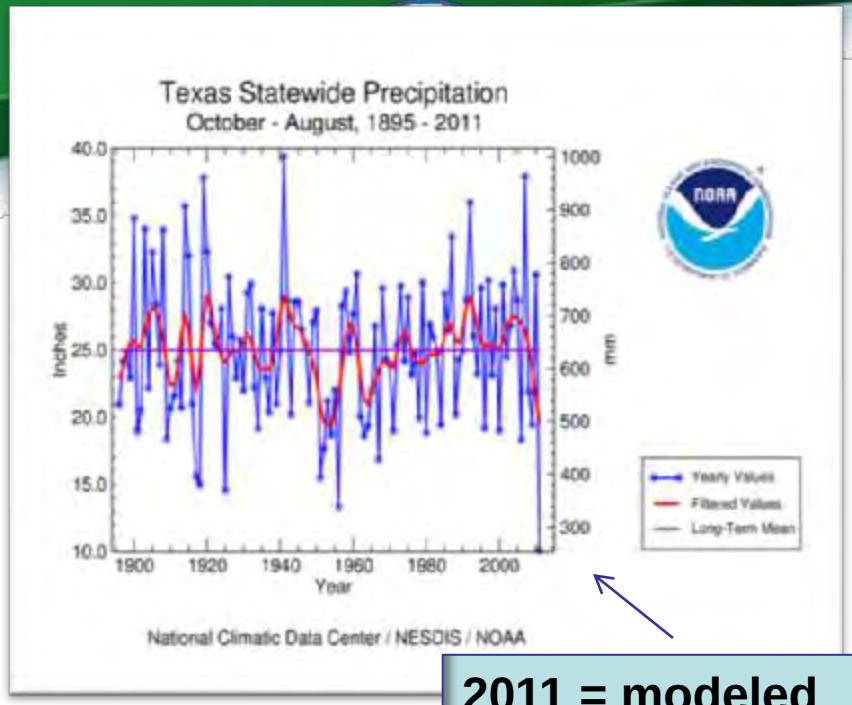


Taking Action on Climate Change

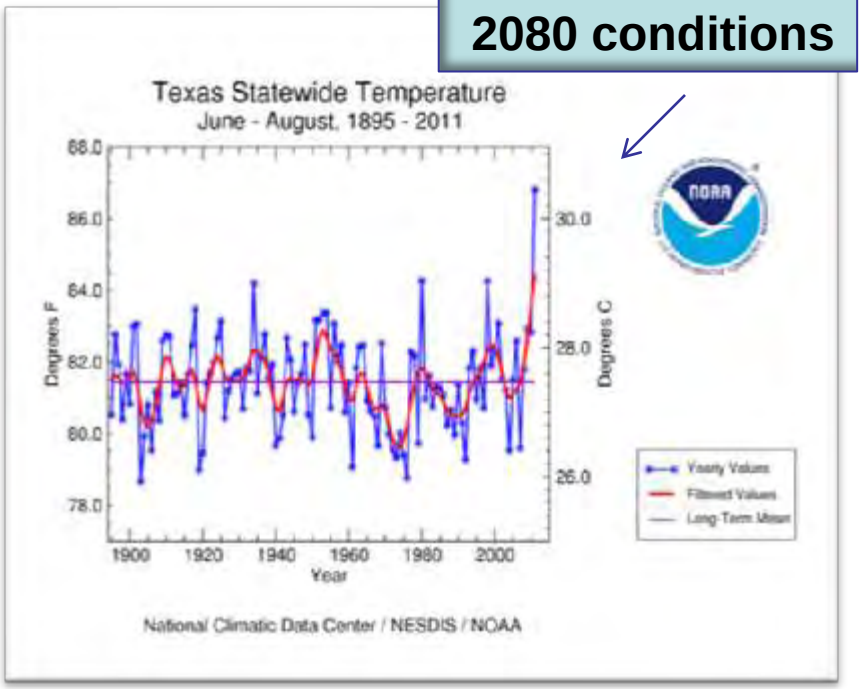
Number of GHG Emitters >= 1 million tons CO2e



- Region 6
- Rest of the US

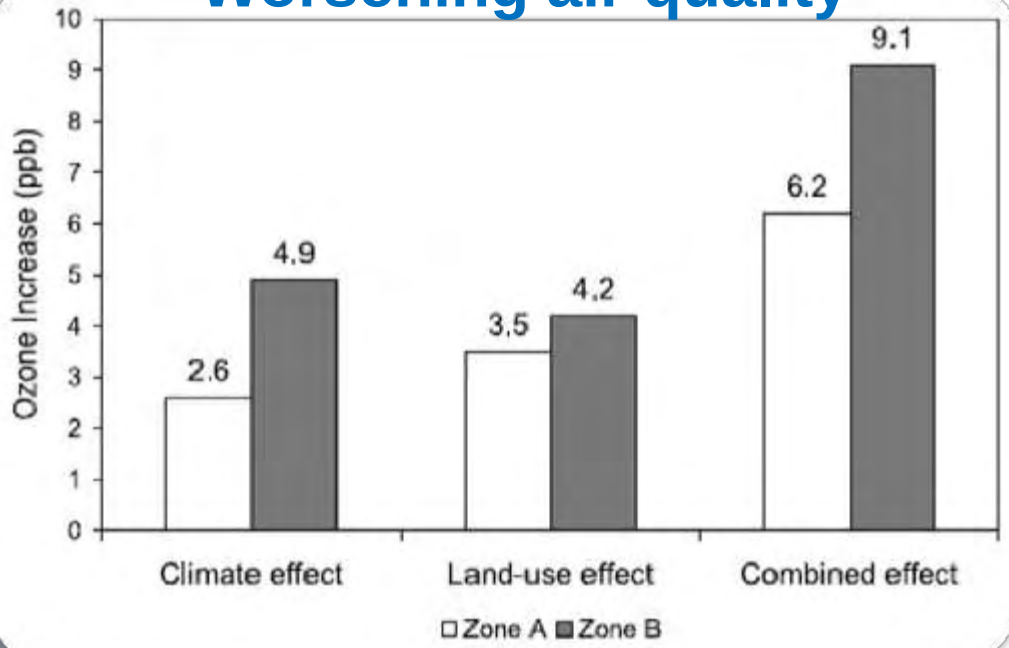


2011 = modeled 2080 conditions

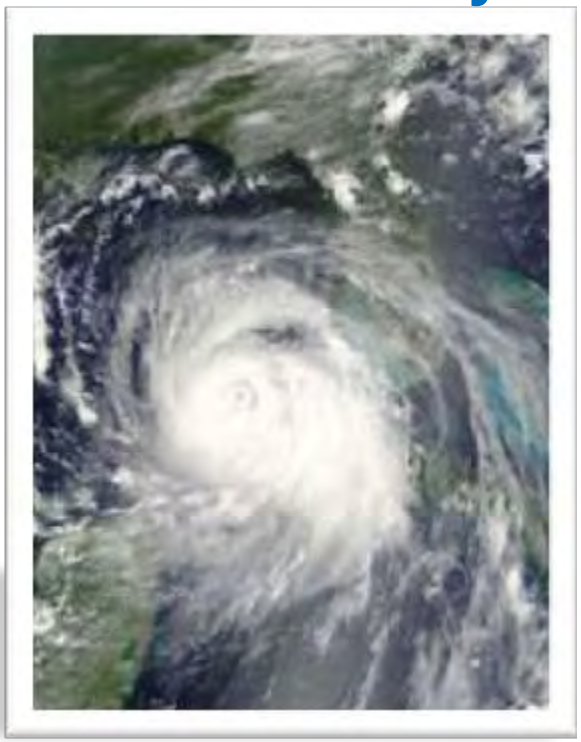


Taking Action on Climate Change

Worsening air quality



Increase in tropical storm intensity



Agricultural losses from drought

Hurricane Katrina, August 30, 2005

Taking Action on Climate Change

Successfully Restoring Coastal Habitat

Mississippi River Reintroduction

Barrier Island Restoration

Training and Planning Assistance

Green infrastructure- Low impact development

EPA Climate Change Adaptation Plan

Cleaning Up Our Communities

Removal of Contaminants From Communities

- Episodic Release Reduction Initiative
- Stolthaven Terminal Response (Plaquemines Parish,LA)

Ready For Reuse Program
A Tool To Promote Land Revitalization

England Airpark
(Formerly England AFB)

Since 2003 in Louisiana:

- **18 RfR determinations issued**
- **19 facilities**
- **2,900 acres of land re-purposed**

Protecting America's Water

- **New Orleans Urban Waters Pilot**—Enhance community's use of water resources in New Orleans
- **Coastal Restoration**—Advance Gulf Coast restoration by impacting NRDA and RESTORE efforts
- **Enforcement Priorities**—Focused compliance assistance, inspections and enforcement at SSOs, CAFOs, MS4s and gas production facilities; improving state and tribal drinking water compliance