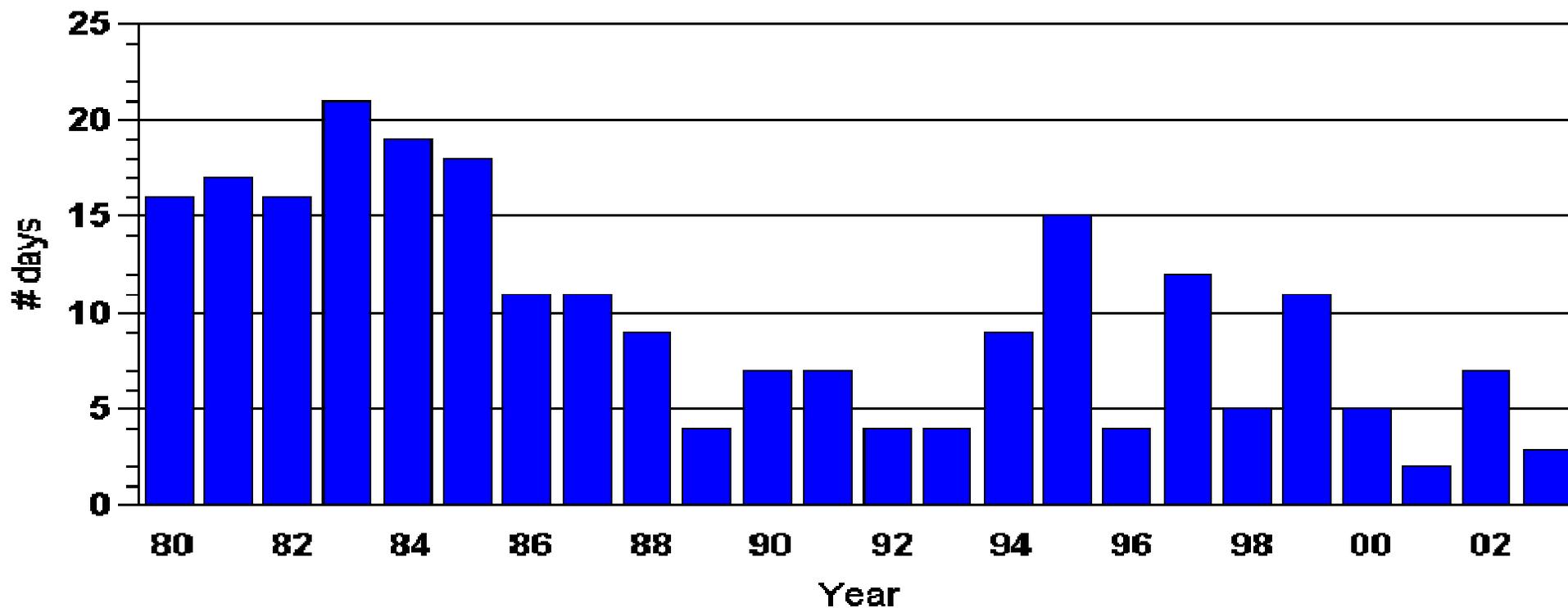


**FORT WORTH CHAMBER OF COMMERCE
AND
TARRANT COUNTY BAR ASSOCIATION
MEETING
FEBRUARY 5, 2004**



Dallas-Fort Worth Ozone Episodes

days > 1-hr standard from 1980-2003

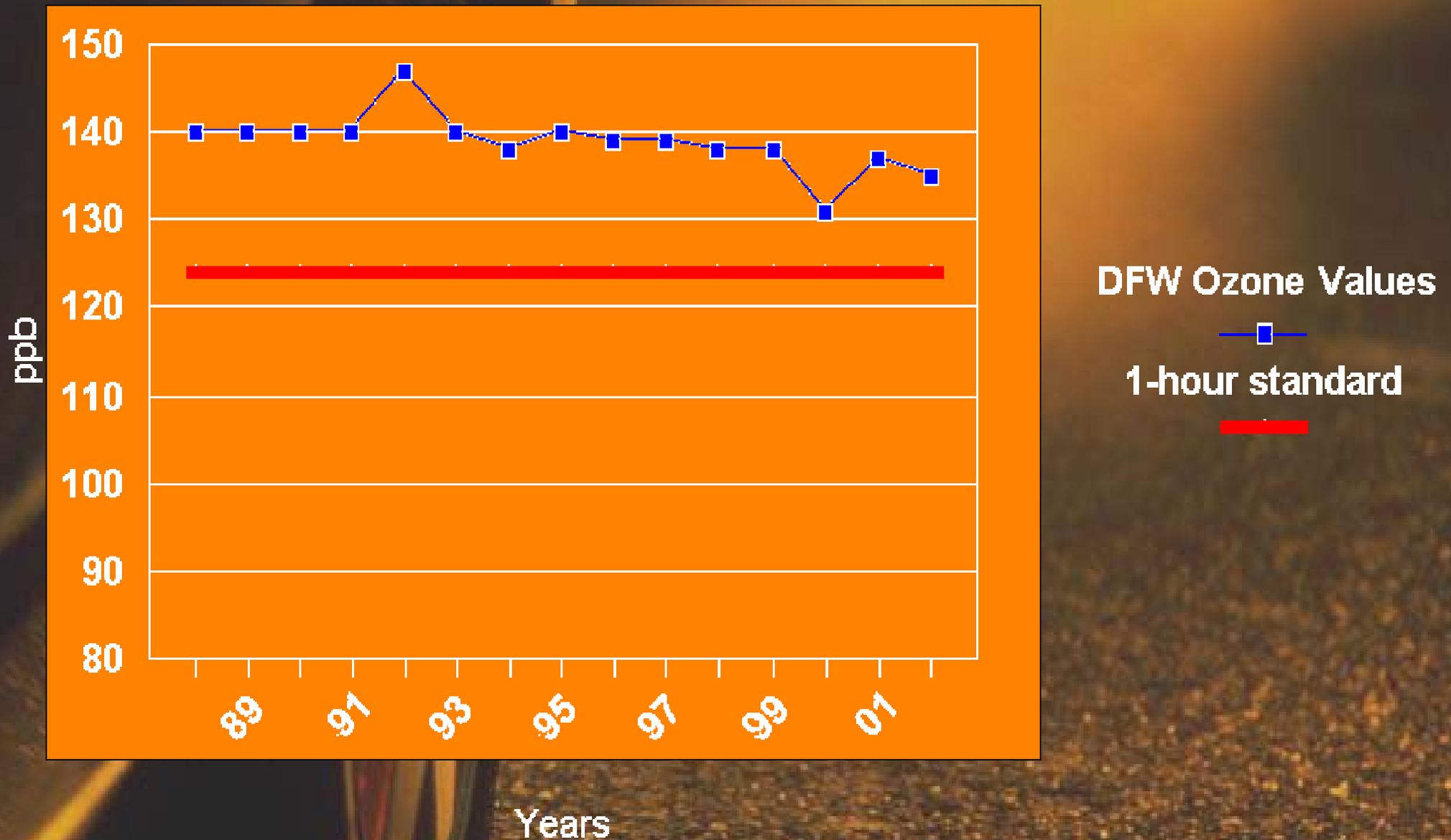


1-hr standard = 124 ppb

2003 data through August 14

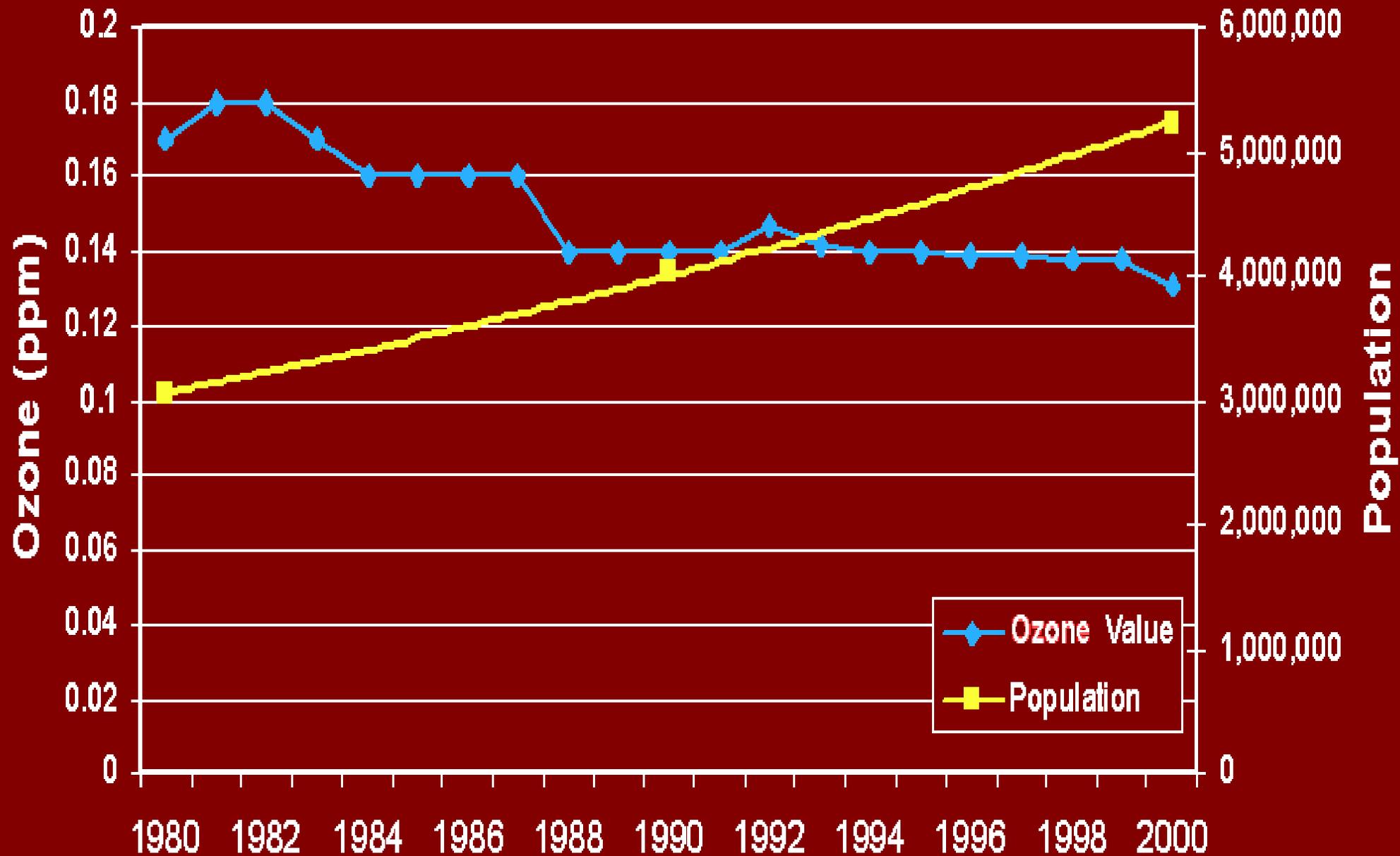
1-hour Ozone Trends

Dallas/Fort Worth, Texas

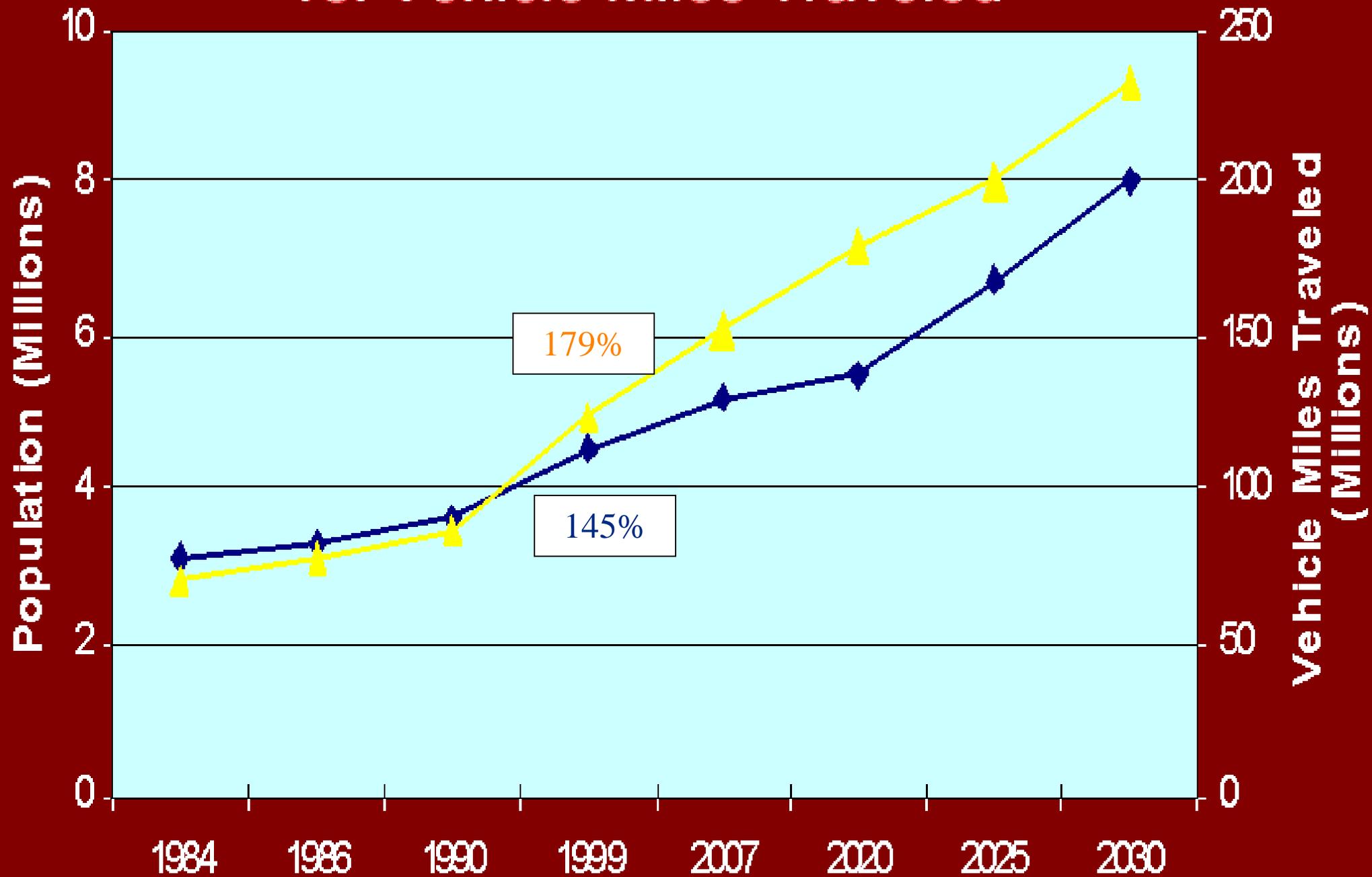


1-hour standard = 124 ppb

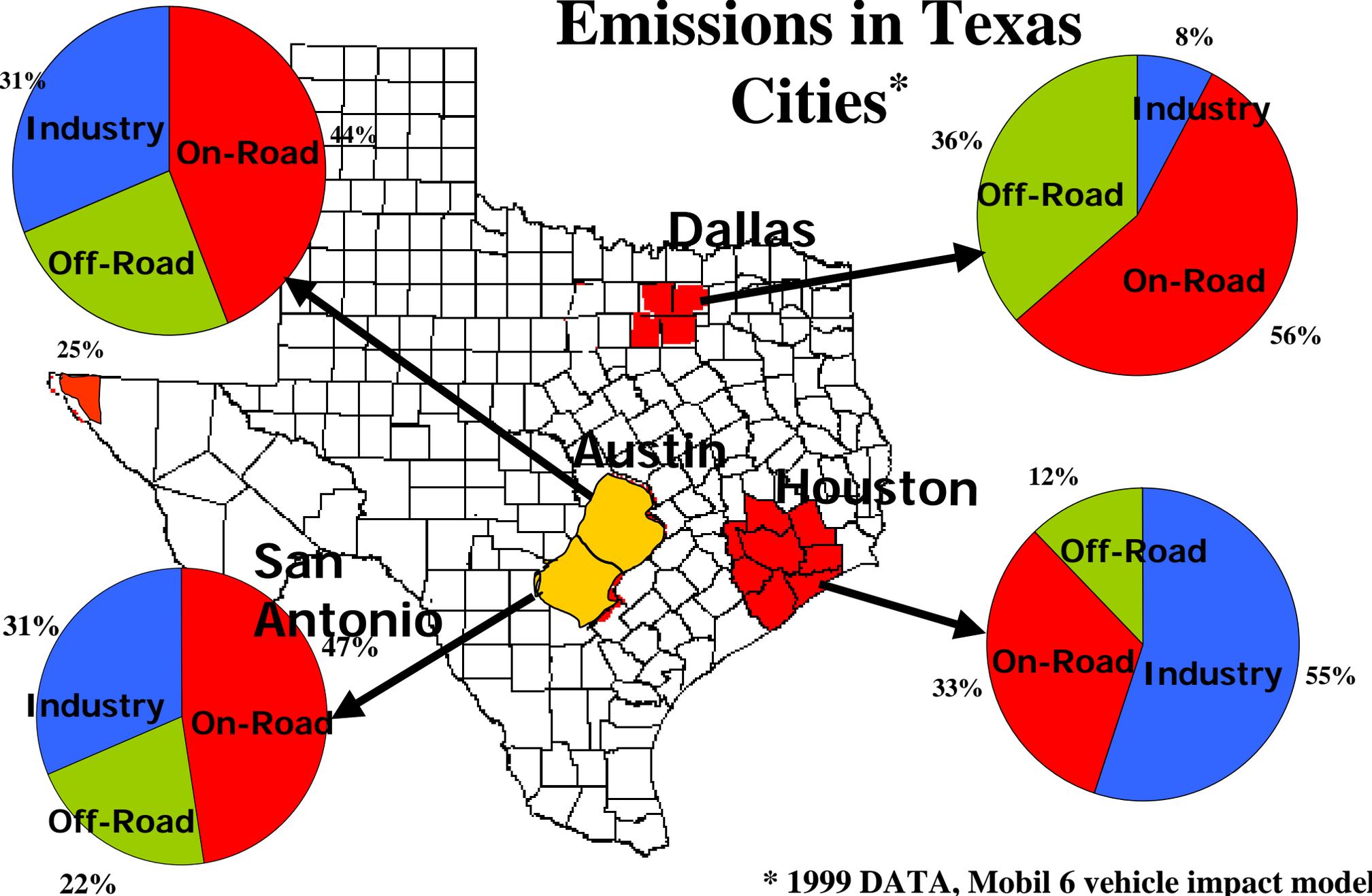
DFW Ozone Value Versus Population 1980-2000



DFW Population Growth vs. Vehicle Miles Traveled



Sources of NOx Emissions in Texas Cities*



* 1999 DATA, Mobil 6 vehicle impact model

DFW and the One-Hour Ozone Standard

- 1990 Clean Air Act:
 - DFW to meet 1-hour ozone standard by 1996 or
 - Be 'bumped up'

DFW and the One-Hour Ozone Standard

- 1990 Clean Air Act:
 - DFW to meet 1-hour ozone standard by 1996 or
 - Be 'bumped up'
- 1998 DFW was bumped up from 'Moderate' to 'Serious':
 - New SIP due from Texas by 1999
 - More controls [I&M; Transportation control measures; more stringent hydrocarbon, NOx controls]
 - Attain by 1999 [except ... transport policy]
- Jan. 2001 EPA proposed to approve the DFW SIP [19 different rulemakings]:
 - 2007 attainment date due to Houston pollution transport

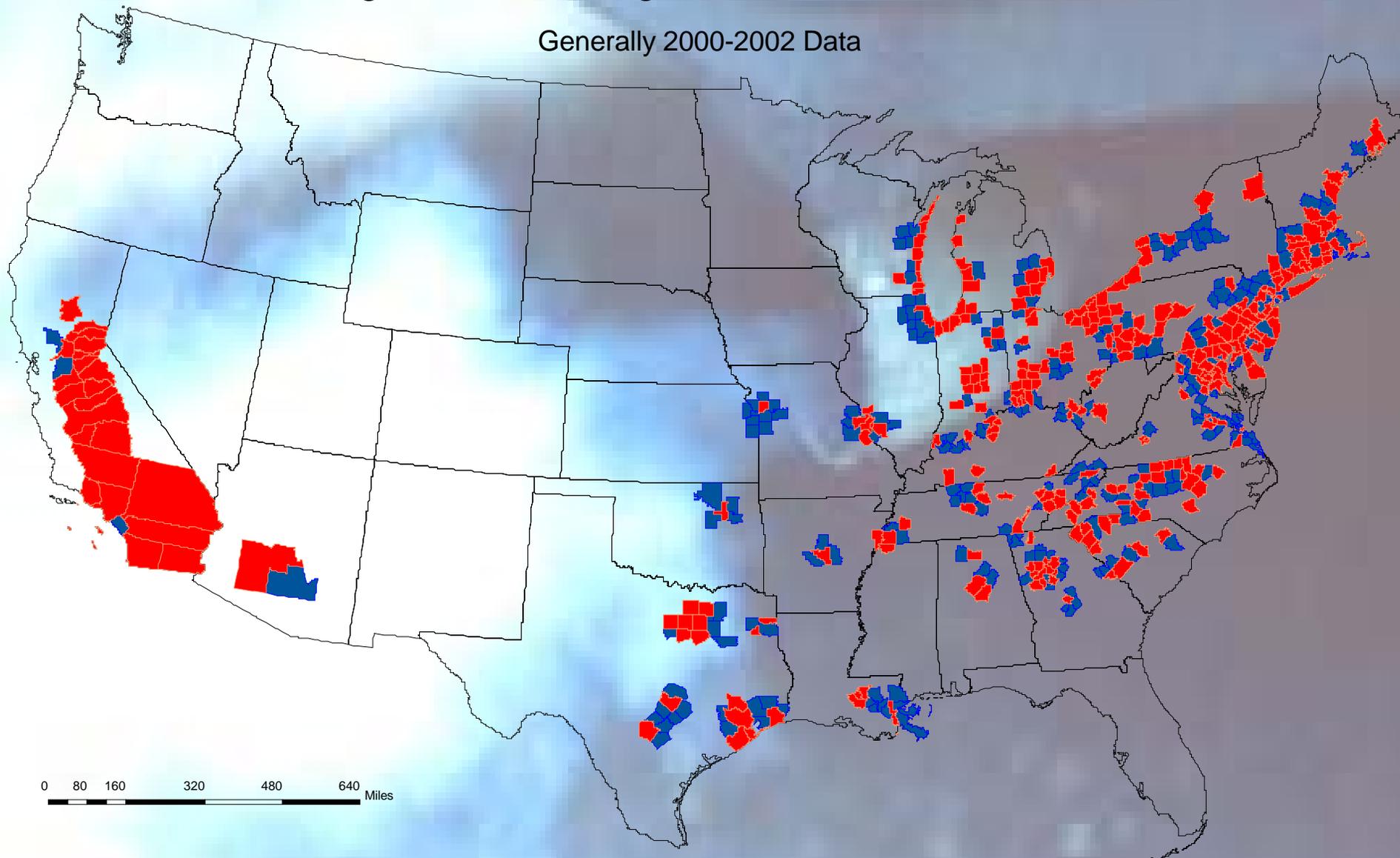
DFW and the One-Hour Ozone Standard

- Dec. 2002- 5th Circuit ruling on transport:
 - Transport a scientific reality, but
 - Clean Air Act does not allow EPA to expand attainment dates because of it.
- Challenge is transition from 1-hour to 8-hour ozone standard

8-hr Ozone Violating Areas

Violating Areas, Violating Counties and C/MSA Counties

Generally 2000-2002 Data

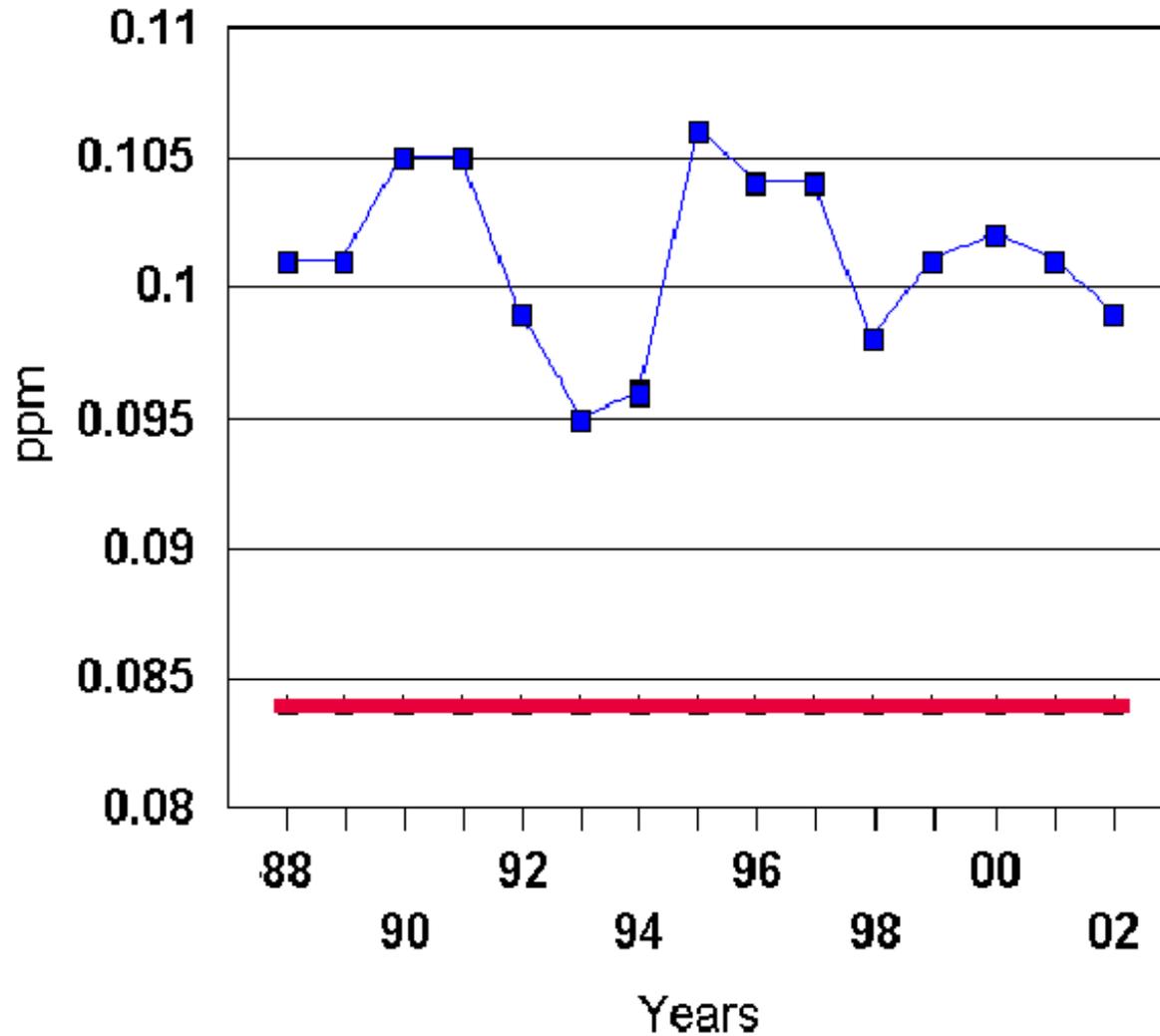


0 80 160 320 480 640 Miles

-  C/MSA Counties with No Data or Clean
-  Counties Violating 8-hour Ozone Standard

8-hour Ozone Trends

Dallas/Fort Worth, Texas



Dallas Ozone Values

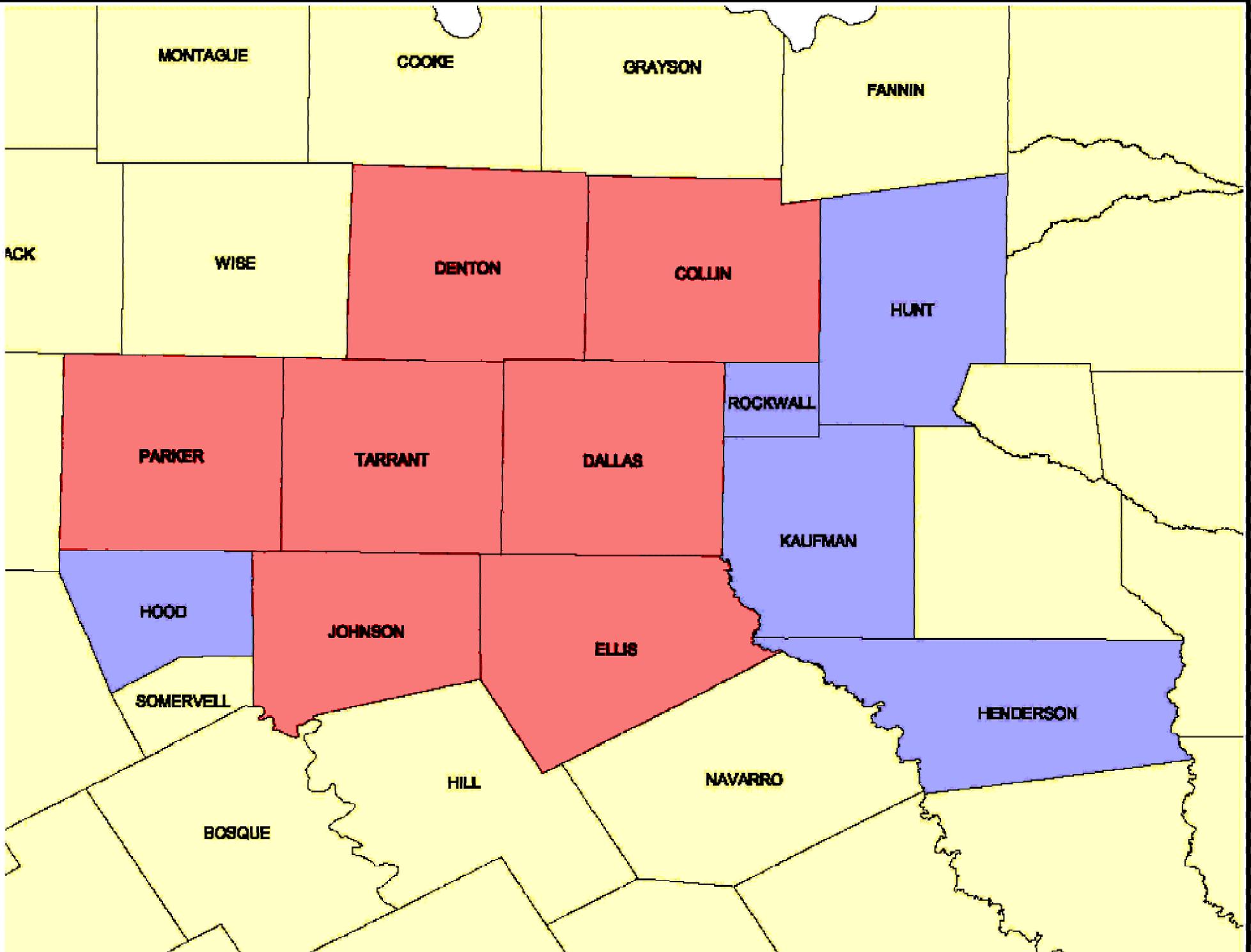


8-hr Standard



8-hr Standard = 0.084 ppm

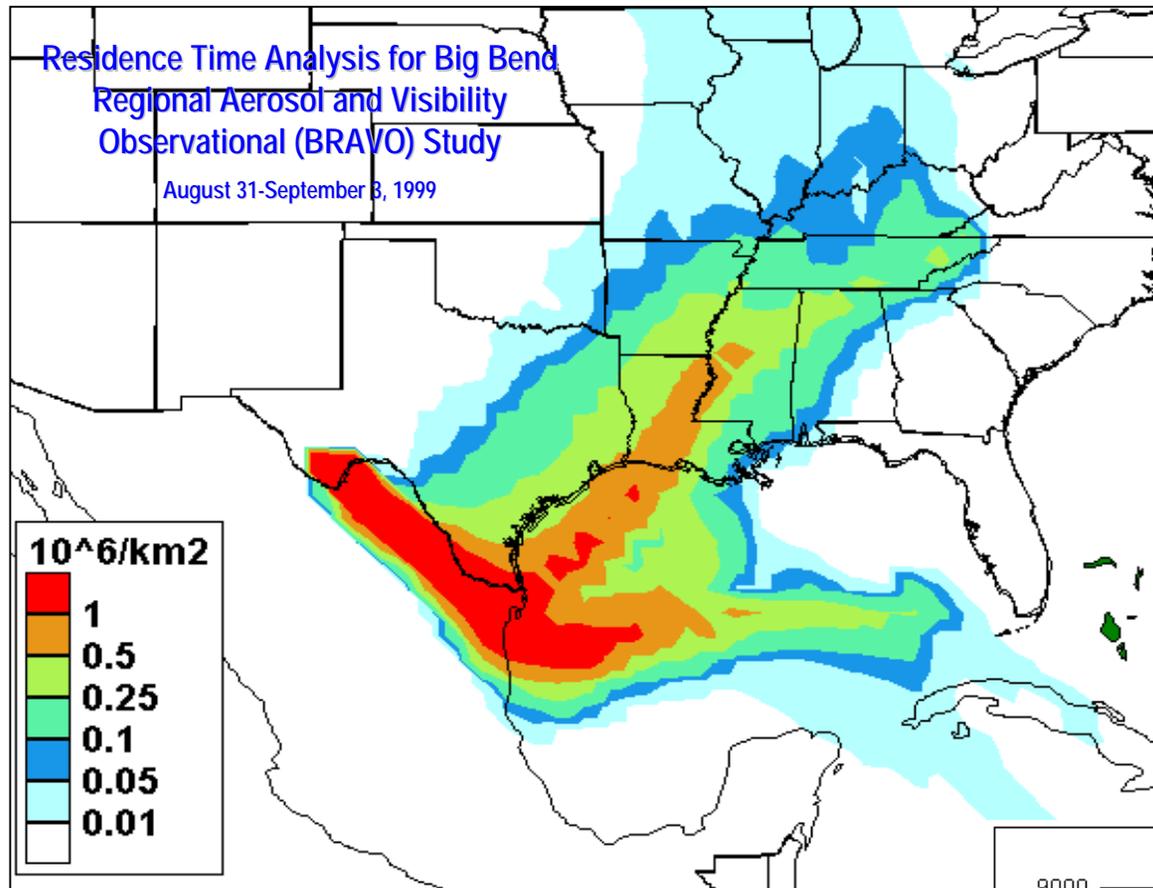




DFW 1-Hour and 8-Hour Schedule

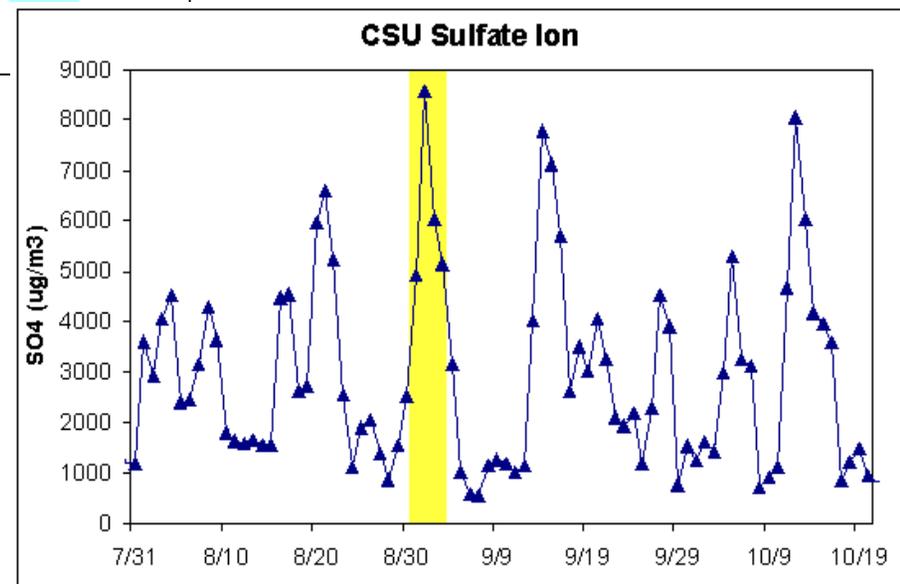
June 2003	EPA proposed the 8-hour implementation rule
July 15, 2003	States provided designation recommendations
December 2003	EPA provided recommendation to Governor Perry on DFW 8-hour ozone boundary.
February 2004	EPA to publish the final 8-hour implementation rule
Spring, 2004	Negotiations completed and State works in partnership with local areas and EPA to propose approval of DFW SIP revision.
April 2004	EPA to make final 8-hour nonattainment designations
October 2004	Expect new DFW SIP addressing 1-hour and early 8-hour plan.
April-May 2007	Nonattainment area SIPs submitted to EPA; attain by 2010 [or earlier?]

Long-Range, Continental Transport (PM_{2.5})



This map indicates that the air parcel arriving at Big Bend National Park August 31-September 3, 1999, likely passed over Mexico, the SE US and Ohio River Valley area.

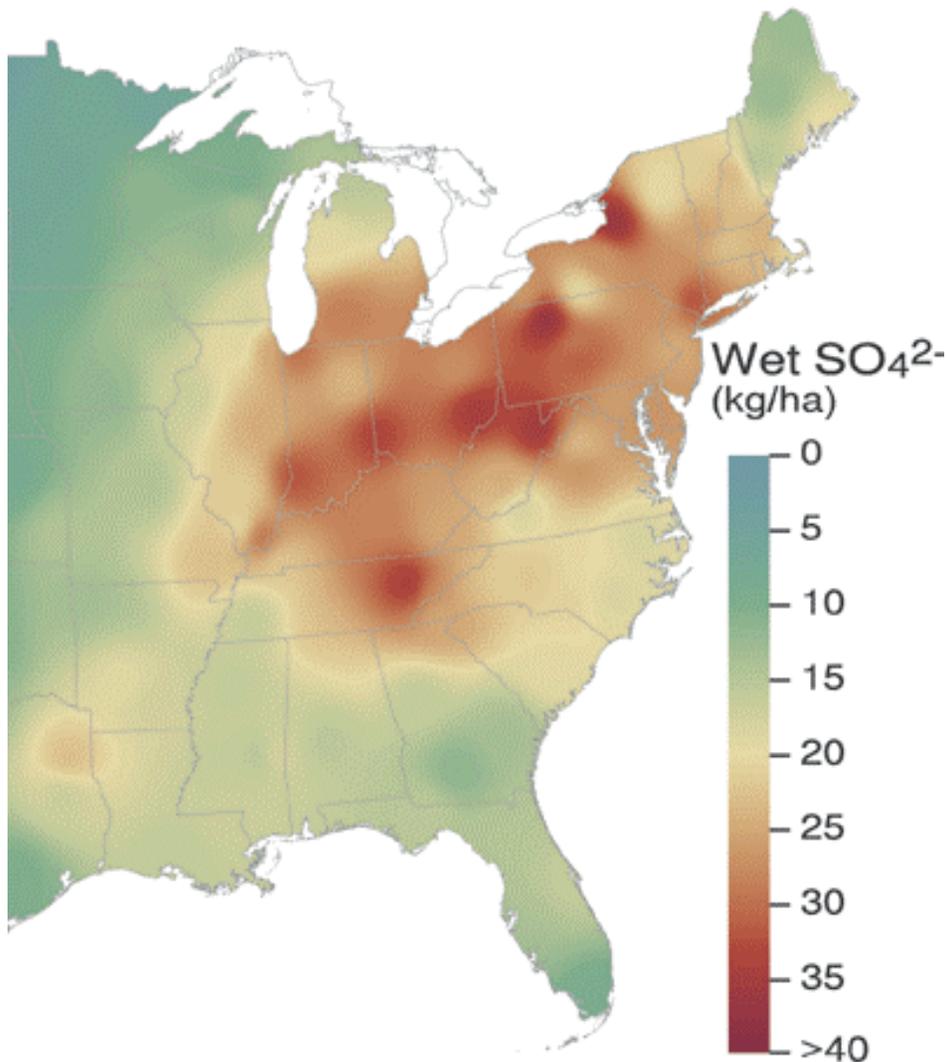
This was the highest PM-2.5 sulfate episode during the 4-month BRAVO study period.



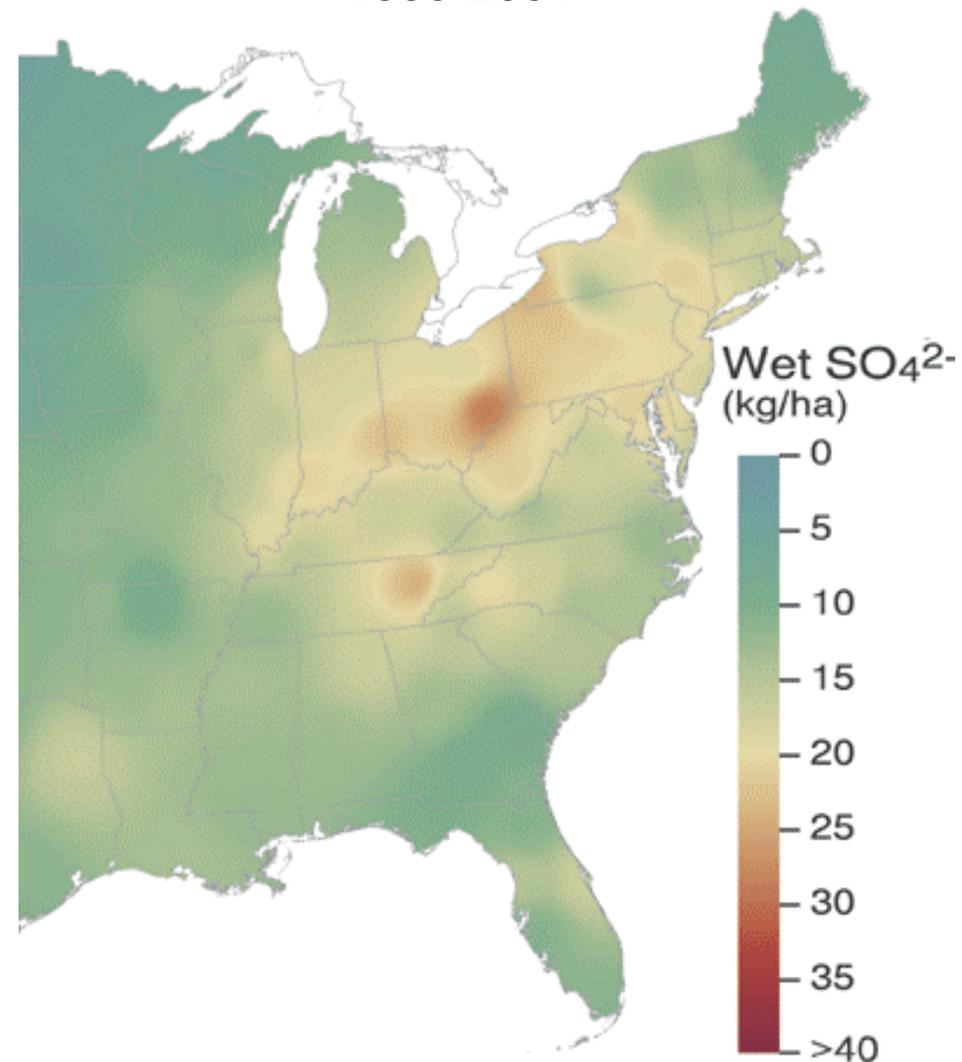
Building on Lessons Learned: Reductions in Acid Rain

Monitored Reductions in Wet Sulfate Deposition Under the Acid Rain Program

1989-1991



1999-2001



Clear Skies Act: Caps and Timing

	Emissions (2000)	Phase 1 Cap	Phase 2 Cap	Total Reductions at Full Implementation
Sulfur Dioxide (tons)	11 million	4.5 million (2010)	3 million (2018)	73%
Nitrogen Oxides (tons)	5 million	2.1 million (2008)	1.7 million (2018)	67%
Mercury (tons)	48	26 (2010)	15 (2018)	69%

Alternatives to Clear Skies

Interstate Air Quality Rule

- Regulated version of Clear Skies
- National cap-trade program for NO_x and SO₂
- Reductions in 2018
 - 70% reduction in SO₂
 - 65% reduction of NO_x

Utility Mercury Reductions Rule

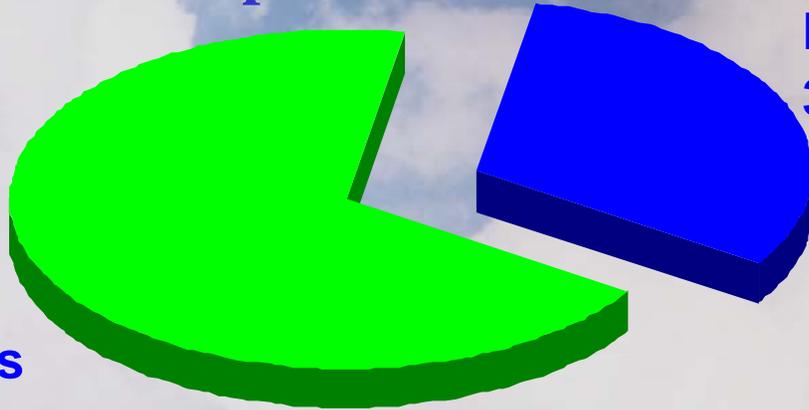
- MACT under Section 112, or
- Standards of Performance under Section 111
 - Reduce Hg emissions to 15 TPY by 2018

	SO ₂ Reductions in 2018	NO _x Reductions in 2018	Hg Reductions in 2018
Clear Skies	73%	67%	15 TPY
IAQR	70%	65%	NA
Utility Mercury Reductions	NA	NA	15TPY

Brownfields Redevelopment

Economic Development

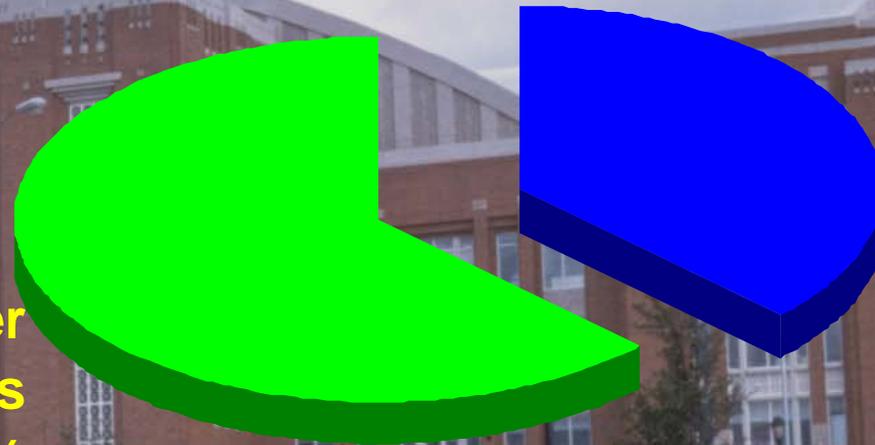
Other
Regions
69%



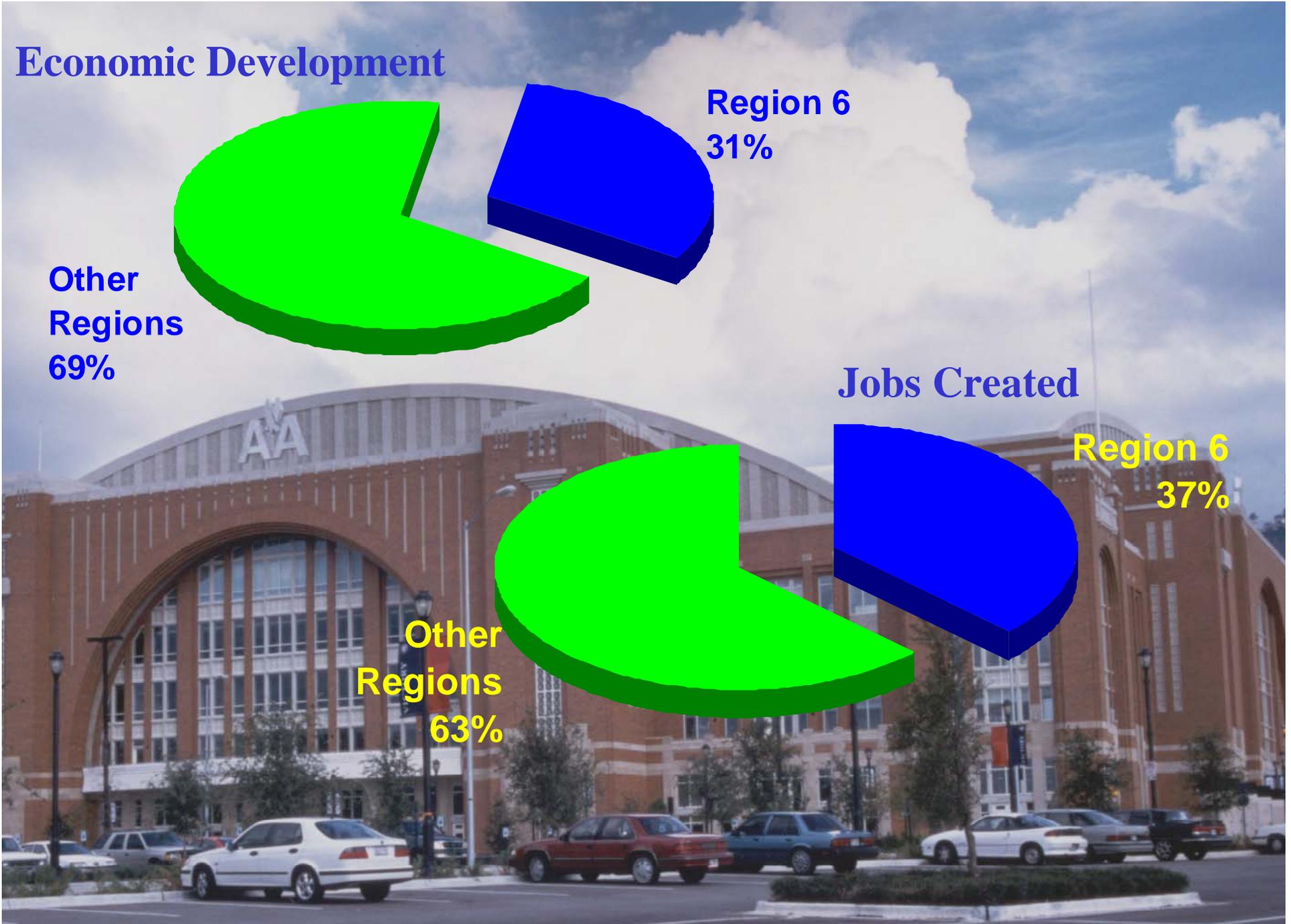
Region 6
31%

Jobs Created

Other
Regions
63%



Region 6
37%



Fort Worth / EPA Project XL Phase 1 Demolition April 2001



Project XL – Phase 2

- **Cowtown Inn, an abandoned motel**
- **Side by Side comparison of NESHAP vs. Fort Worth Method**
- **Method demonstration planned this summer (FY04)**



IdleAire – Clean Air Innovations



The IdleAire Service Module Gives You Total Control Of Your Home On The Road



EPA-R6 innovations in reducing air emissions



- **Dallas energy efficiency audits**
- **Fuel cell SEPs**
- **Clean-vehicle loaner to NCTCOG**
- **Energy Star benchmarking**
- **Adopt-a-school bus**
- **SB 5 workshops on air quality-energy efficiency**
- **Frisco green building program video**
- **Outreach to industry, governments, public**
- **MOU with DOE-NREL**

