

# Regional Air Quality Overview

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## Dallas Businesses Breakfast Group

October 21, 2010



**Chris Klaus**  
**Air Quality Planning and Operations**  
**Transportation Department**  
**North Central Texas Council of Governments**

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# Background And History

# REGIONAL AIR QUALITY OVERVIEW

## National Ambient Air Quality Standards

### Criteria Pollutants

**X:       Lead**

**Sulfur Dioxide**

**Carbon Monoxide**

**Nitrogen Oxides**

**Particulate Matter**

**X:       Ozone**

**Future:       Greenhouse Gas Emissions  
(i.e. Carbon Dioxide)**

# REGIONAL AIR QUALITY OVERVIEW

## DFW Ozone Standard History

### 1990 Clean Air Act – Establishes 5-Year Review Cycles

#### 1-Hour Standard

1991 = Standard Instigated  
(125 ppb)

1996 = Attainment Deadline  
(Not Met)

1999 = Attainment Deadline  
(Not Met)

2007 = Attainment Deadline  
(Standard Met in 2006)

In 2005, the standard was revoked  
due to new 8-hour standard.

#### 8-Hour Standard

2004 = Standard Instigated  
(85 ppb)

2010 = Attainment Deadline  
(Not Met)

2013 = Attainment Deadline  
(To Be Determined)

In 2010, new 60-70 ppb standard  
was proposed. A final number is  
expected by end of October 2010.

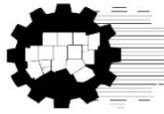
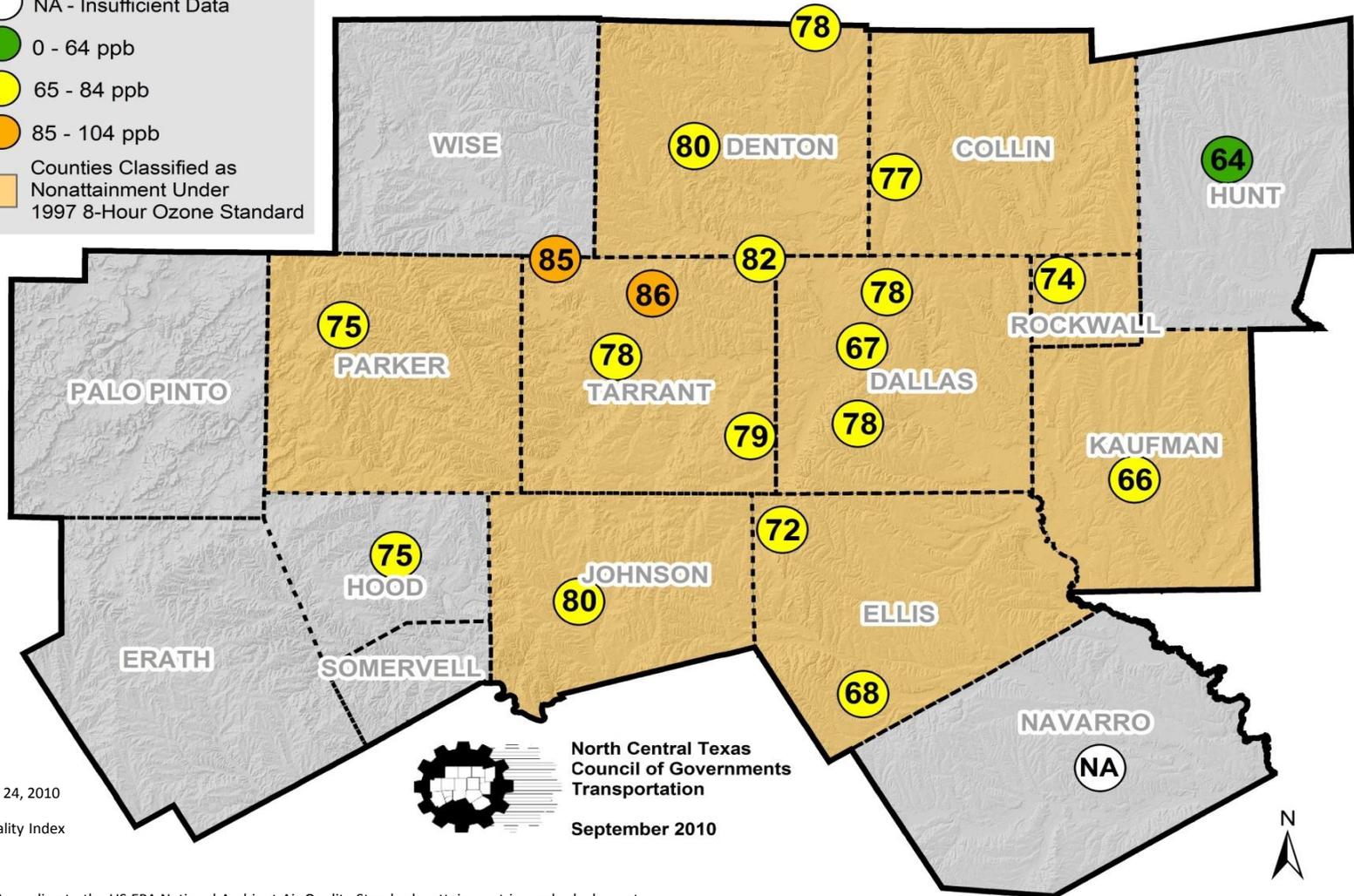
# 2010 OZONE SEASON UPDATE

## 8-Hour Ozone Design Values

**Legend**

2008-2010 Design Value (ppb)

- NA - Insufficient Data
- 0 - 64 ppb
- 65 - 84 ppb
- 85 - 104 ppb
- Counties Classified as Nonattainment Under 1997 8-Hour Ozone Standard



North Central Texas  
Council of Governments  
Transportation  
September 2010



Current as of September 24, 2010

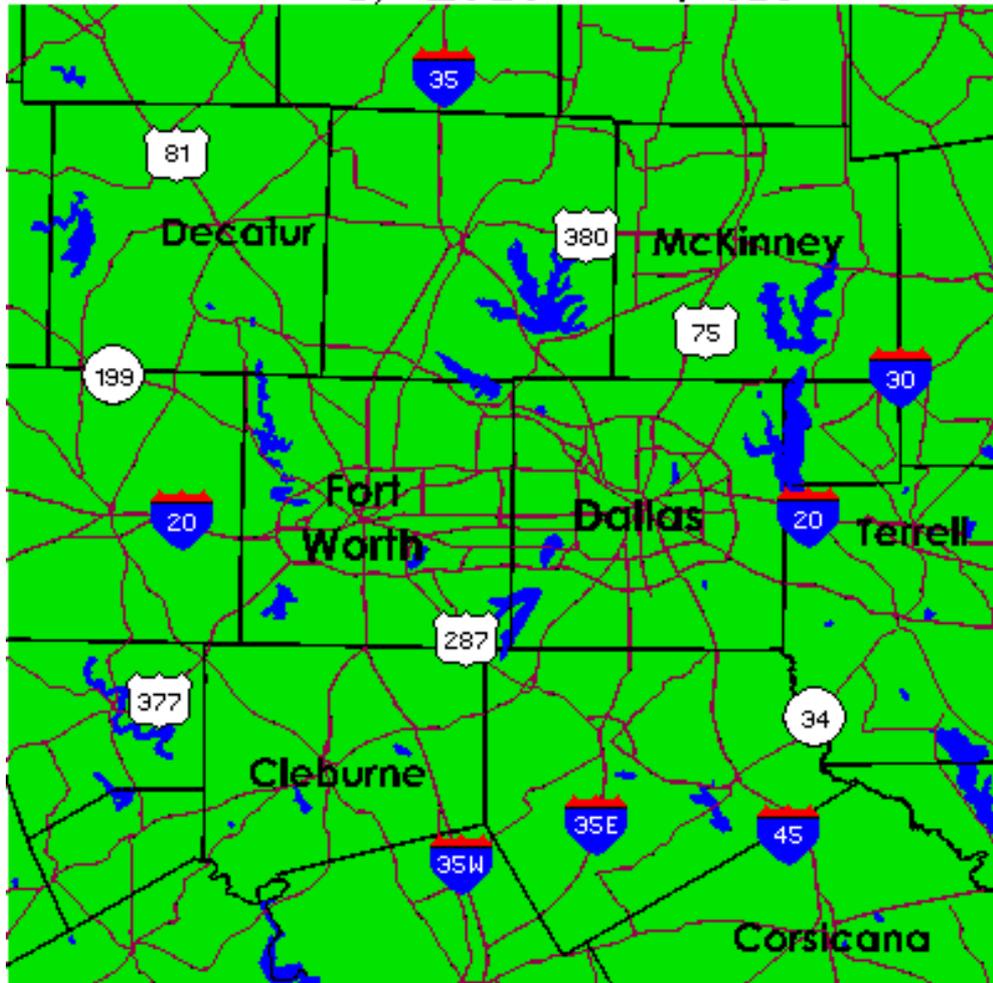
Colors represent Air Quality Index breakpoints

2010 Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

# 2010 OZONE SEASON

Maximum Daily 8-Hour Average\* was 94 ppb on June 4, 2010

North-Central Texas  
Jun 4, 2010 7 AM



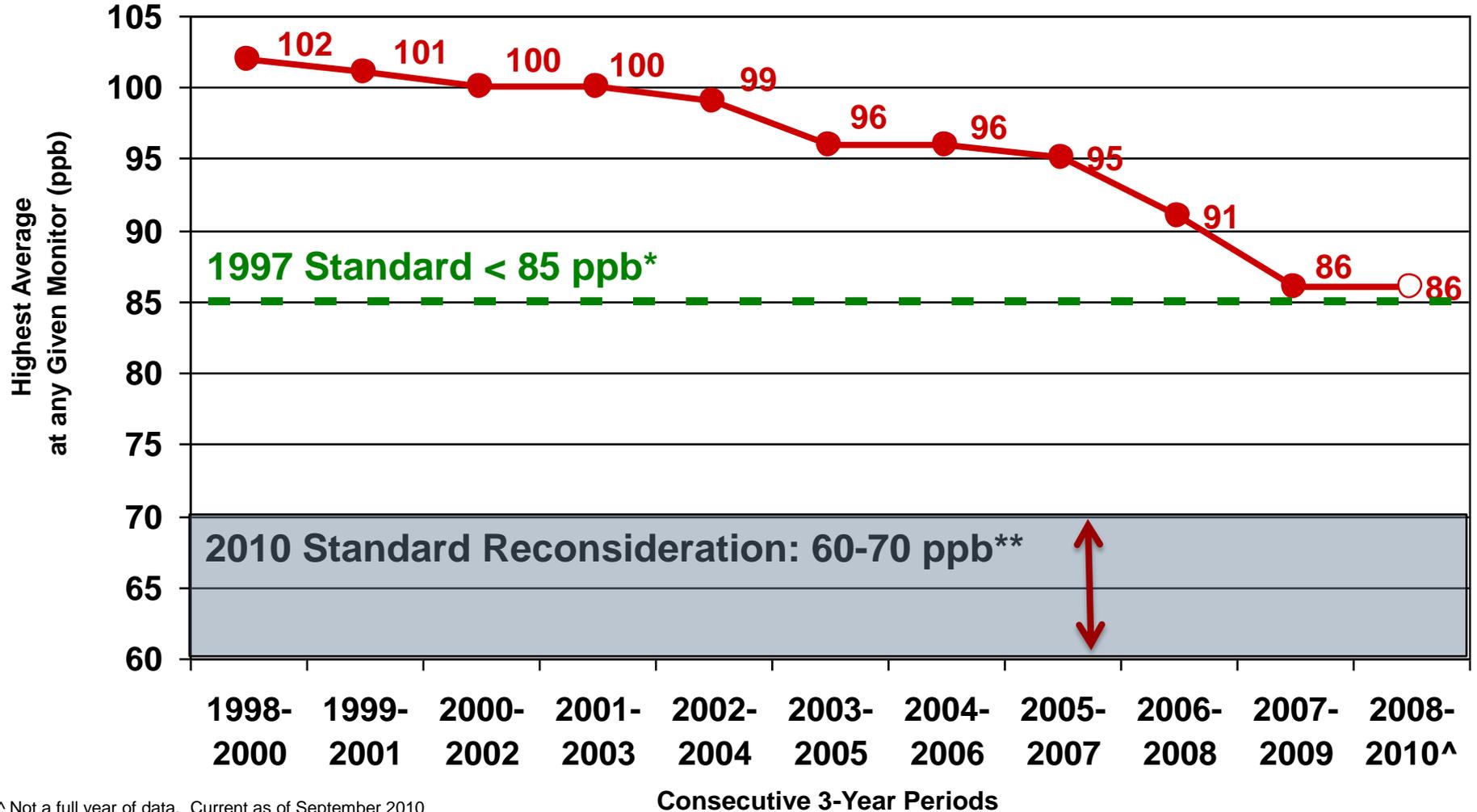
## Air Quality



\*Current as of October 2010

# 8-HOUR OZONE HISTORICAL TRENDS

## DFW Nonattainment Area



<sup>^</sup> Not a full year of data. Current as of September 2010

\* 2010 Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

\*\* Ozone Standard is currently under reconsideration by the EPA and is anticipated to be revised in October 2010 to between 60 and 70 ppb.

# REGIONAL AIR QUALITY OVERVIEW

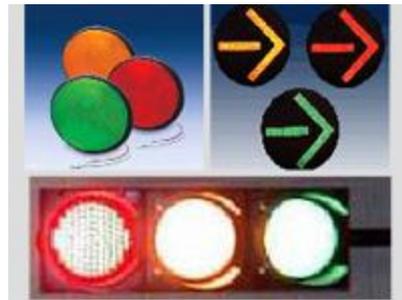
## Programs Minimizing Transportation Impacts



Don't Choke, Call #SMOKE



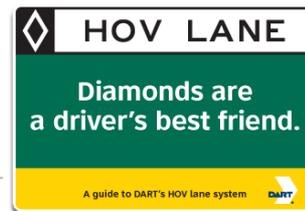
north.central.texas.clean.school.bus.program



BLUE SKYWAYS COLLABORATIVE



tryparkingit.com



# **Reclassification of Ozone Nonattainment Area**

# RECLASSIFICATION OF NONATTAINMENT AREA

## Timeline

Important Dates		Reclassification of Moderate Nonattainment Area
2010	May 1	TCEQ Submits Certified 2009 Ozone Data to EPA
	August	EPA Reclassification Action Proposal
	December	EPA Issues Final Action for Reclassification
2012	January	<b>Revised DFW Air Quality Plan to EPA</b>
2013	June 15	Serious Attainment Date Based on 2010–2012 Ozone Data

# **Reconsideration of 2008 8-Hour Ozone Standard**

# OZONE STANDARD RECONSIDERATION

## Proposed Revision

### Primary 8-Hour Standard

Protect Public Health

0.060-0.070 parts per million (ppm)

### Secondary Standard

Protect Sensitive Vegetation & Ecosystems

7-15 ppm-hours

### Milestone

### Date

Final Rule

End of October 2010

State Designation Comments Due

November 3, 2010

State Designation Recommendations

January 2011\*

EPA Designations & Classifications

July 2011\*

State Implementation Plans Due

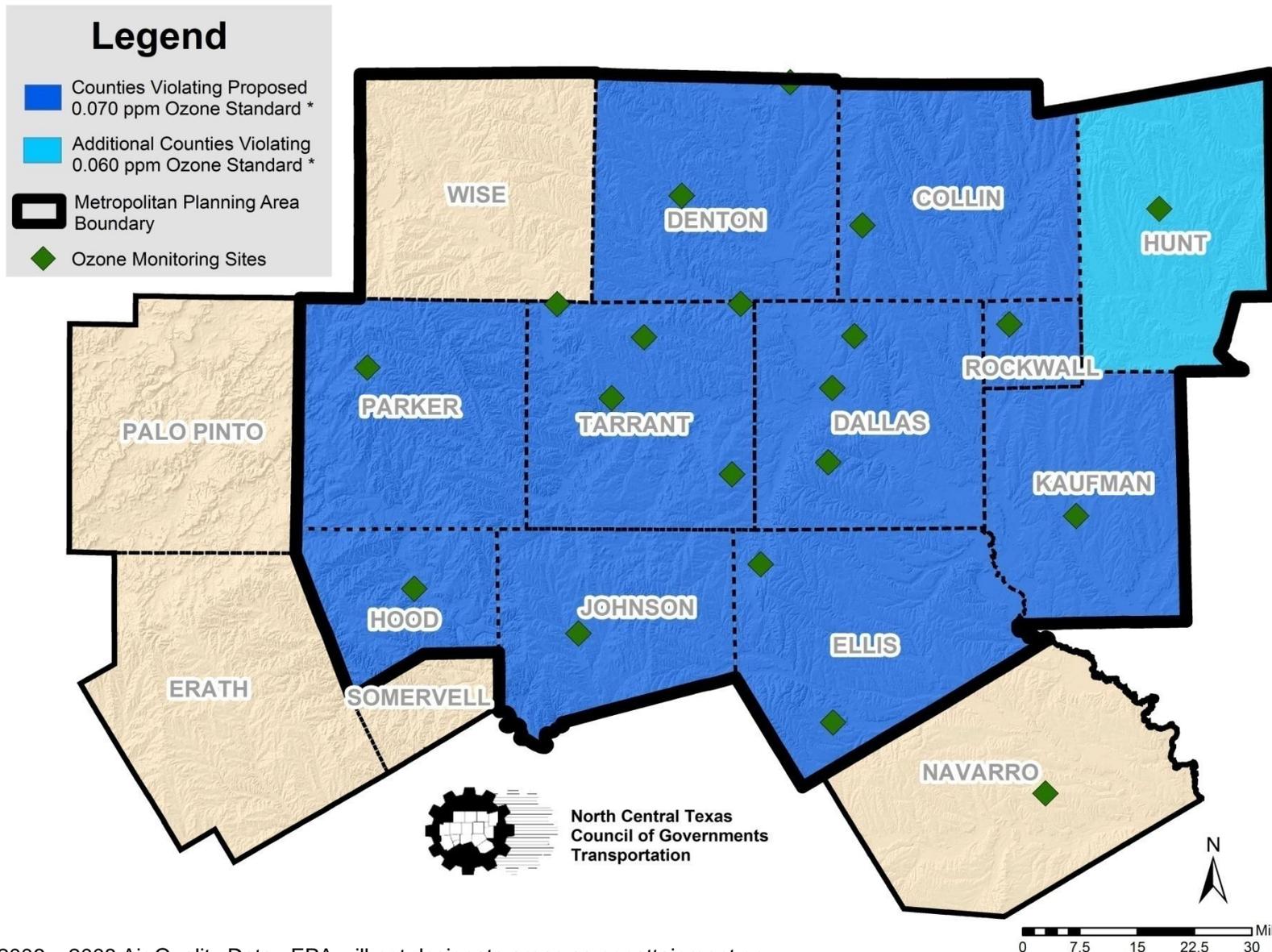
December 2013\*

Attainment Dates

2014-2031

# OZONE STANDARD RECONSIDERATION

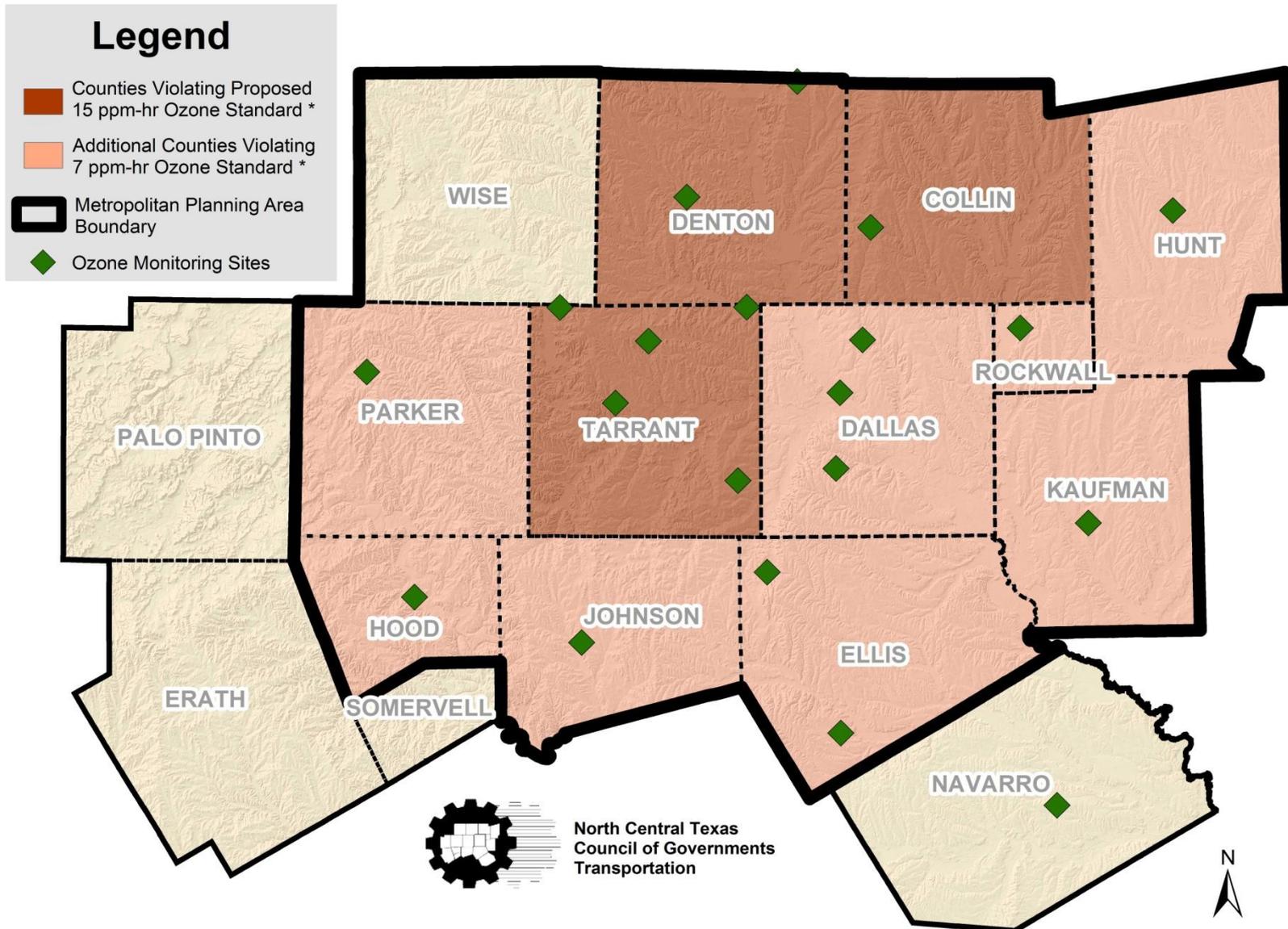
## Primary Standard



\* Based on 2006 – 2008 Air Quality Data. EPA will not designate areas as nonattainment on these data, but likely on 2008 – 2010 data which are expected to show improved air quality.

# OZONE STANDARD RECONSIDERATION

## Secondary Standard



\* Based on 2006 – 2008 Air Quality Data. EPA will not designate areas as nonattainment on these data, but likely on 2008 – 2010 data which are expected to show improved air quality.

# **CLEAN AIR INITIATIVE SUGGESTIONS**

## **Commuter Programs**

**Transit**

**Vanpool**

**Carpool**

**TryParkingIt.com**

**Incentives**

**Offer so employees participate in commuter programs**

## **Business Operations**

**Telecommuting**

**Flexible Scheduling**

**Energy Efficiency**

**Recycle/Renew**

**Green Building**

**Sustainable Development**

# GETTING INVOLVED

## North Texas Clean Air Coalition

**Non-Profit: Supporting Voluntary Efforts  
to Improve Air Quality in the Region**

**Created in 1993 and Guided by a Volunteer  
Executive Board**



**Promotes Commute Solutions, Business Operations, Fleet  
Operations and Community Impacts**

**Educates Local Business through **Let's Do Lunch Seminar Series****

**Hosts the **Annual Working for Clean Air™ Awards Ceremony**  
Recognizing Businesses for Their Positive Impacts on Air Quality**

**Participates in Local Outreach Events to Promote Clean Air**

Contact: Jennifer Cohen, 817-690-1921  
jennifer.cohen@yourprojectpartners.com  
[www.workingforcleanair.org](http://www.workingforcleanair.org)



# **CLEAN AIR INITIATIVE SUGGESTIONS**

## **Clean Vehicle and Fleet Operations**

**Address Vehicle Acquisitions**

**Limit Vehicle Idling**

**Maintain Vehicles**

**Provide Alternative fuel/Electric Recharging Stations**

**Complete Annual Fleet Survey**

**Operate a Fleet of Clean Vehicles for Car- or Vanpools**

**Delay Use of Two-Cycle Engines**

# GETTING INVOLVED

## Dallas-Fort Worth Clean Cities

### Coalition

National Program Created and Supported by the  
U.S. Department of Energy

Designated in July 1995

Clearinghouse for Information and Education on Clean Fuel  
and Advanced Technology Vehicles, Programs, and Policies  
with a Focus on Petroleum Reduction and Air Quality Benefits

Host Quarterly **DFW Clean Cities Technical Coalition Meetings**,  
Clean Vehicle Events, and an **Annual Advancing the Choice  
Event**

Create and Distribute the Electronic Newsletter  
***Clean Cities News Flash***

Contact: Pamela Burns, 817-704-2510  
pburns@nctcog.org  
<http://www.nctcog.org/cleancities>



# **REGIONAL AIR QUALITY OVERVIEW**

## **Conclusion**

**Region Experiences Cleanest Air on Record**

**Monitor Success => Control Strategies => Inventories**

**On-Road Mobile Sources Continue Significant Decline**

**Extensive Array of Emission Reduction Control Strategies**

**Efforts Addressing Multiple Pollutants**

**Major Challenges on Horizon**

# REGIONAL AIR QUALITY OVERVIEW

## Contact Information

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**Programs:** **[www.nctcog.org/trans/air](http://www.nctcog.org/trans/air)**

**Funding:** **[www.nctcog.org/aqfunding](http://www.nctcog.org/aqfunding)**