

IMPROVING AIR QUALITY IN NORTH TEXAS

University of Texas at Arlington
Fort Worth

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North Central Texas Council of Governments

IMPROVING AIR QUALITY IN NORTH TEXAS

Overview

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- **Overview of the North Central Texas Council of Governments (NCTCOG)**
- **Background on Air Quality**
- **What Can I Do?**
- **Air Quality Programs**



Overview of NCTCOG

OVERVIEW OF NCTCOG

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What is NCTCOG?

Voluntary Association Of, By and For Local Governments

Established in 1966

16-County Region Centered Around Dallas-Fort Worth (DFW)

240 Member Governments (Cities, Counties, Special Districts)

Goals Include Planning for Common Needs, Cooperating for Mutual Benefit, and Coordinating for Sound Regional Development

Metropolitan Planning Organization Designation

12-County Metropolitan Planning Area

9-County Ozone Nonattainment Area

Responsibilities Include Reducing Congestion, Enhancing Mobility, and Improving Air Quality



Background on Air Quality

BACKGROUND

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Criteria Pollutants

Carbon Monoxide (CO)

Lead (Pb)

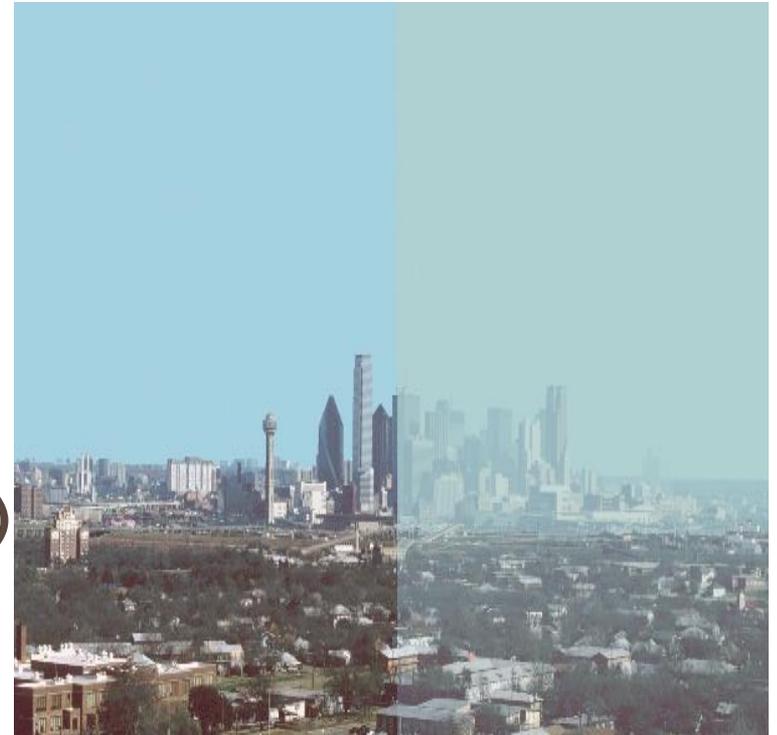
Nitrogen Oxides (NO_x)

Ozone (O₃)

Particulate Matter (PM₁₀ & PM_{2.5})

Sulfur Dioxide (SO₂)

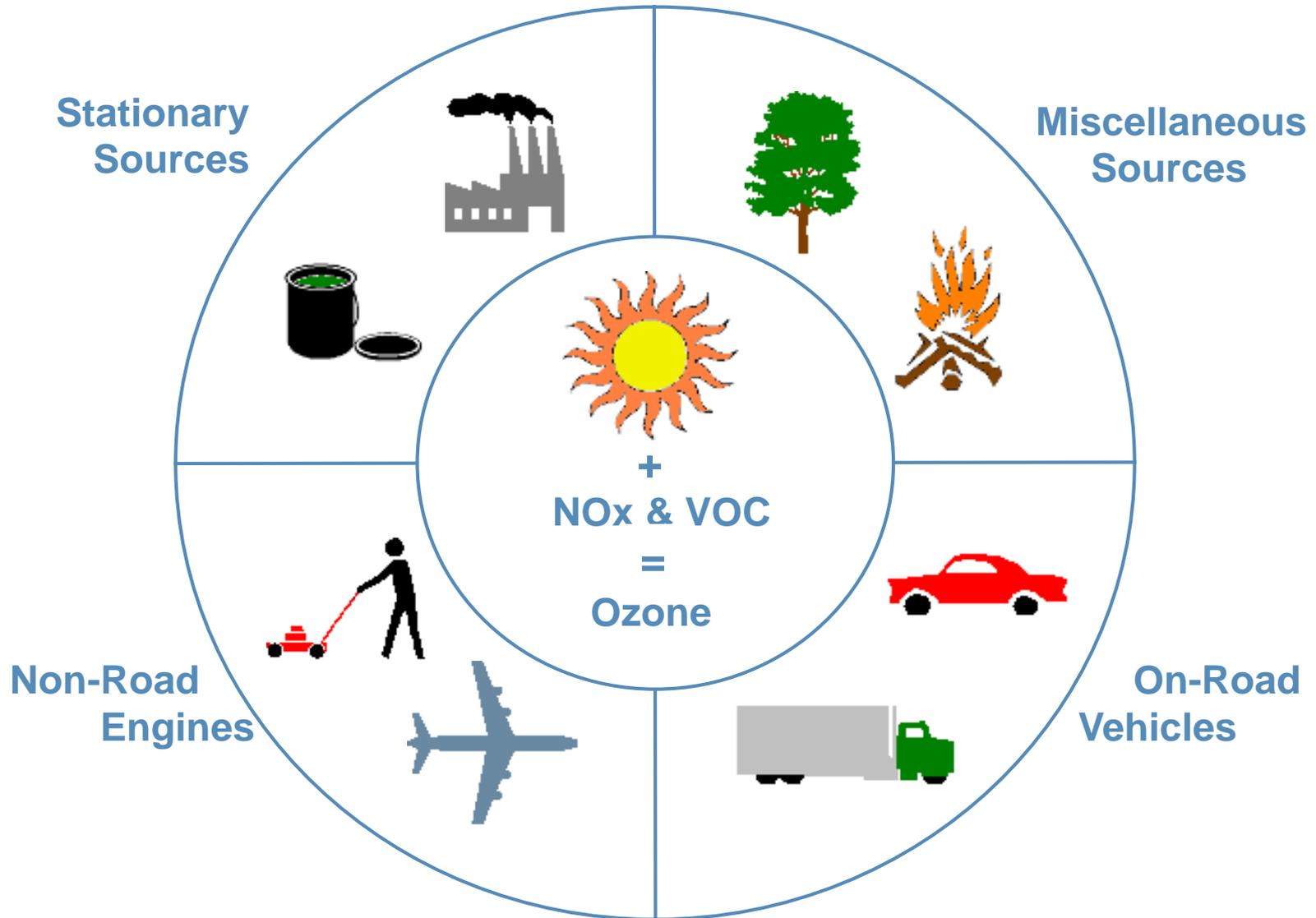
Future ? CO₂, NO₂, Etc.



STATE OF AIR QUALITY IN NORTH TEXAS

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Ozone Formation



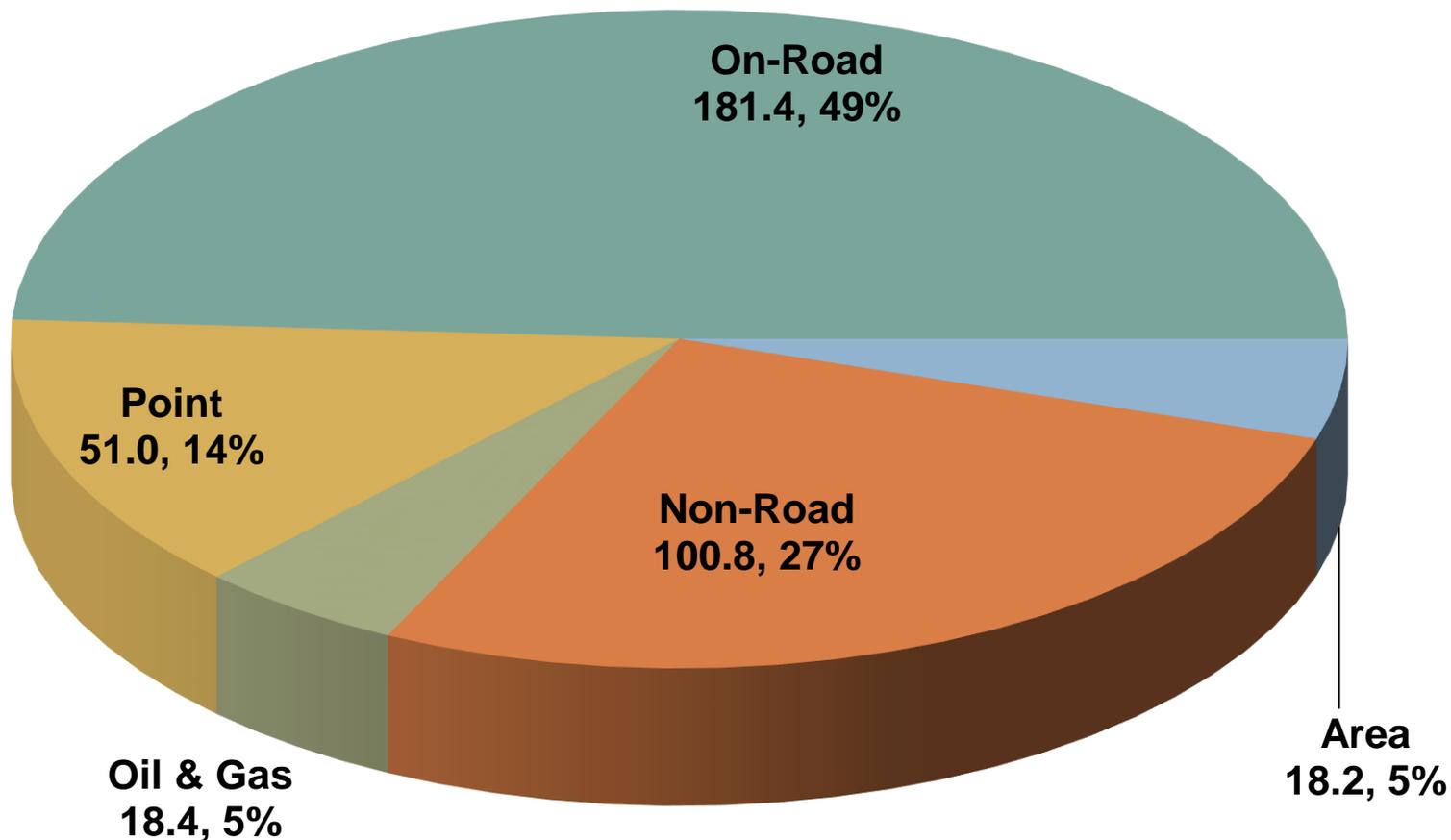
DFW NONATTAINMENT AREA

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NO_x Emission Inventories* by Source

Total NO_x = 370 Tons Per Day (tpd)

*Source: TCEQ



O₃ STANDARD AND NONATTAINMENT HISTORY

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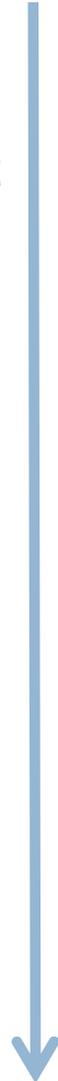
1990 Clean Air Act Amendments: 5-Year Review Cycles

1-Hour Standard

- 1991 = Standard Instigated (< 125 ppb)
- 1996 = “Moderate” Attainment Deadline: Missed
- 1999 = “Serious” Attainment Deadline: Missed
- 2005 = Standard Revoked
- 2007 = “Serious” Attainment Deadline: Met in 2006

8-Hour Standard

- 2004 = Standard Instigated (< 85 ppb)
- 2008 = Standard Revised (= 75 ppb)
- 2010 = “Moderate” Attainment Deadline: Missed
- 2010 = Draft Revision Proposed (60-70 ppb)
- 2011 = Draft Revision Withdrawn
- 2013 = “Serious” Attainment Deadline



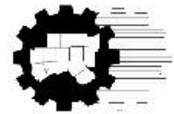
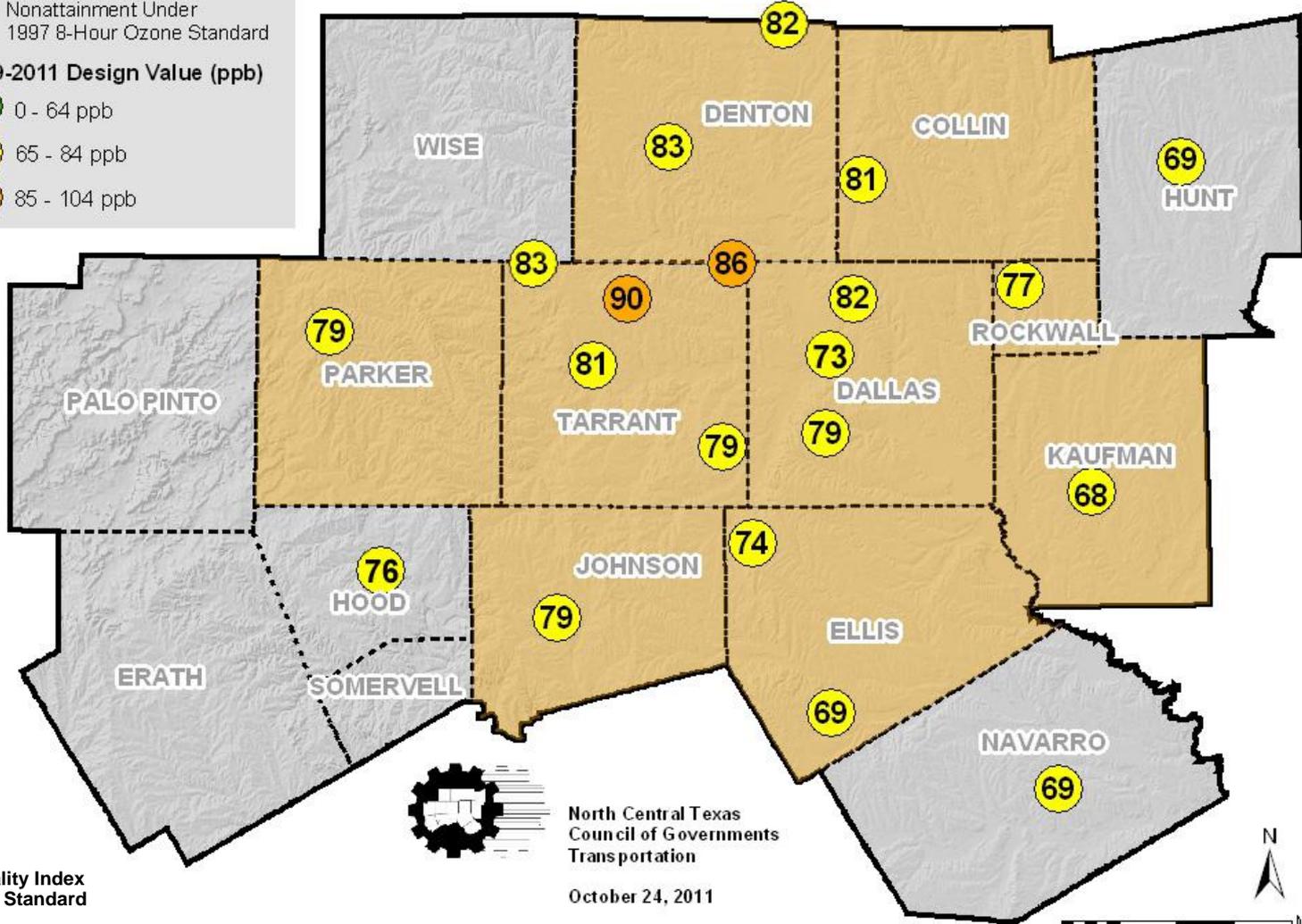
DFW OZONE NONATTAINMENT AREA

Legend

Counties Classified as Nonattainment Under 1997 8-Hour Ozone Standard

2009-2011 Design Value (ppb)

- 0 - 64 ppb
- 65 - 84 ppb
- 85 - 104 ppb



North Central Texas Council of Governments Transportation

October 24, 2011

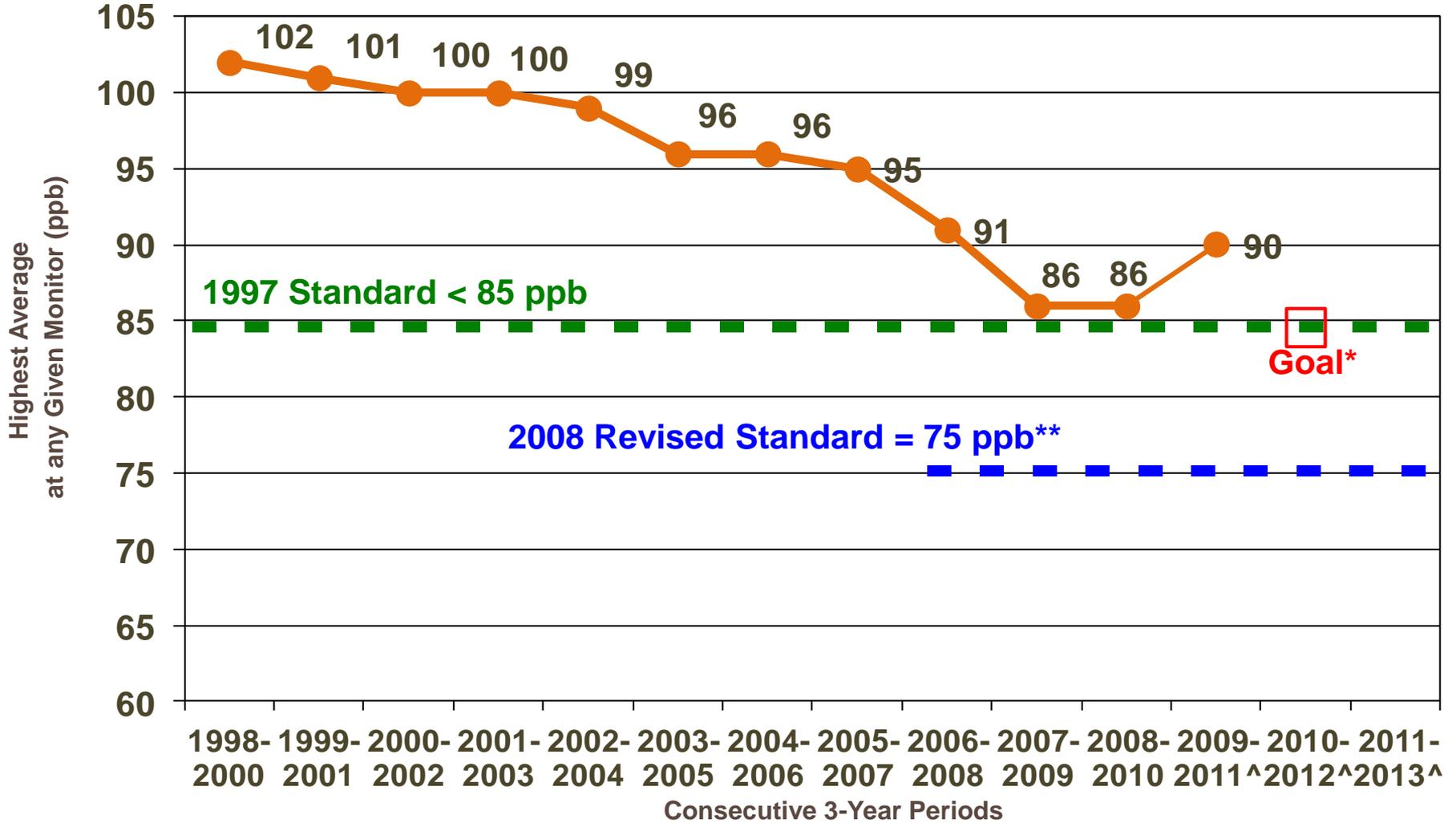


Colors represent Air Quality Index Breakpoints Under 1997 Standard

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).

8-HOUR OZONE STANDARD HISTORIC TRENDS

DFW Nonattainment Area



* 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).

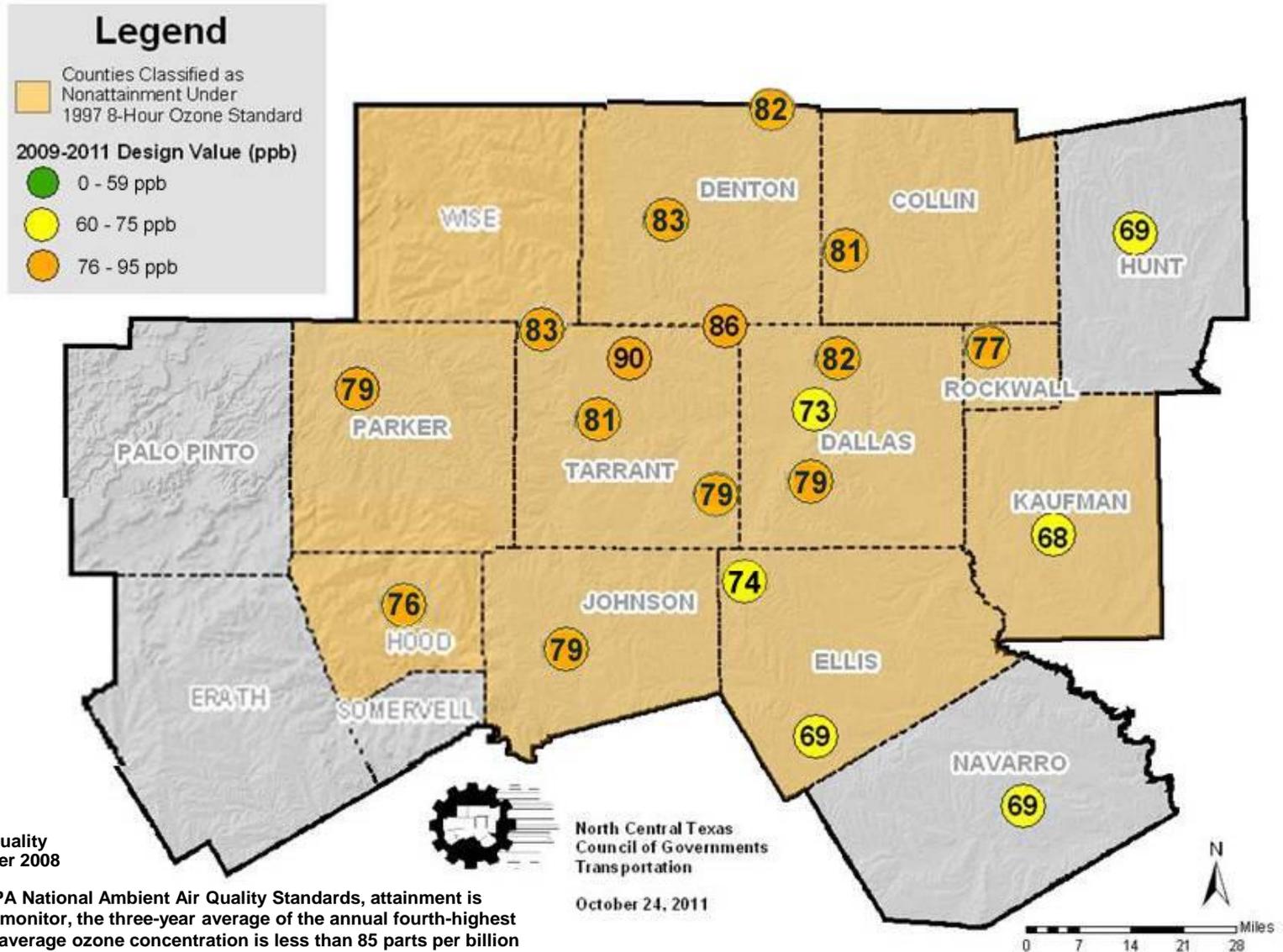
^ Not a full set of data. Current as of September 21, 2011

** Ozone standard revised in 2008 to 75 ppb. Designations under this standard put on hold in 2010; likely resurrected in 2011.

PROPOSED 2008 DFW OZONE NONATTAINMENT AREA

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8-Hour Ozone Design Values



Colors represent Air Quality Index Breakpoints Under 2008 Standard

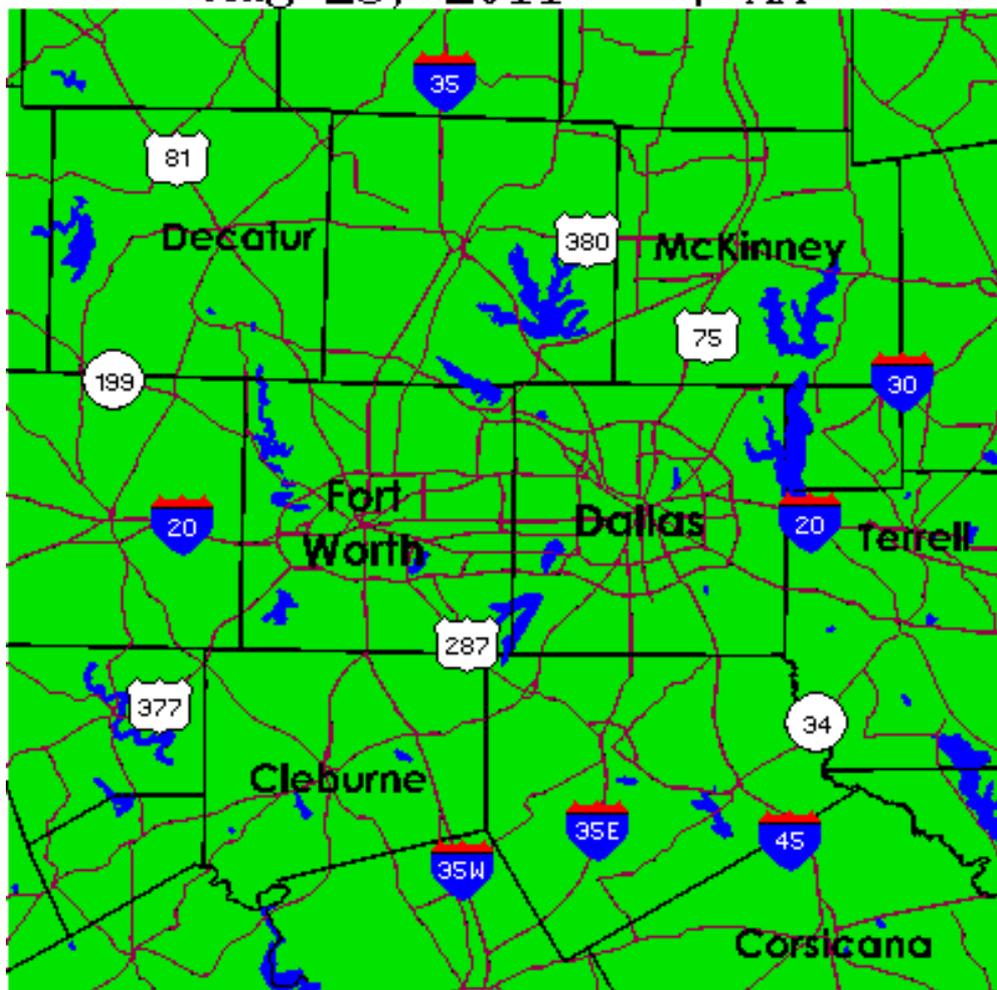
According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

2010 OZONE SEASON

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Maximum Daily 8-Hour Average was 103 ppb on August 28, 2011

North-Central Texas
Aug 28, 2011 7 AM



Air Quality





What Can I Do?

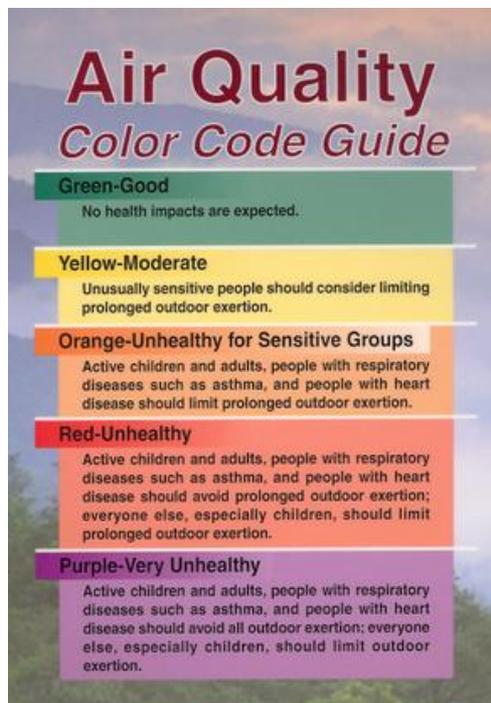
WHAT CAN I DO?

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Understanding Ozone Season

Ozone Season March 1 – October 31 of every year

Learn the Air Quality Index (AQI)



Listen/Watch for Air Pollution Watches and Warnings
Similar to Thunderstorm Watch and Warning System

Sign up for Air Pollution Watches and Warning Emails At
www.airnorthtexas.org

WHAT CAN I DO?

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Simple Practices

Observe the Speed Limit

Use Mass Transit

Walk/Bike to Work or Errands

Bring Your Lunch to Work/School

Avoid Idling

Combine Trips or Drive Less

**Confirm You Are Up-to-Date on Regular Vehicle Maintenance
and State Emissions and Safety Inspection**

**Use Energy Star Appliances and Switch to Compact
Fluorescent Light Bulbs**

Tell Others about Air Quality Programs in North Texas

Learn More At www.airnorthtexas.org

A horizontal decorative bar at the top of the slide, consisting of an orange square on the left and a blue rectangle on the right.

Air Quality Programs

Vehicle Repair Assistance Program

Helps Low to Middle Income Residents Repair Vehicles That Fail an Inspection

**Funded by Inspection Fees Collected & Distributed by TCEQ
Up to \$600 for Emissions Repairs**

Currently Suspended - Up to \$3,500 for Vehicle Replacement

Overall Program Success in North Central Texas

Since Inception of the Program in October 2002:

Replaced Over 27,000 Passenger Vehicles

Repaired Over 25,000 Passenger Vehicles

**Reduced Nitrogen Oxide (NO_x) Emissions Approximately
1.1 Tons Per Day**

Contact Jason Brown at 817-704-2514 or jbrown@nctcog.org
www.nctcog.org/airchecktexas



AIR QUALITY PROGRAMS: HIGH EMITTING VEHICLES

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Regional Emissions Enforcement Program

Goals

Reduce the Number of High-Emitting and Smoking Vehicles

**Reduce the Number of Fictitious/Counterfeit Inspection
Certificates**

**Decrease the Number of State Inspection Stations Conducting
Fraudulent Emissions Inspections**

Enforce Truck Lane Restrictions

Support Anti-Idling Restrictions

Train Local Law Enforcement Officers



Statewide Coordination

Participating Counties

**Dallas, Denton, Ellis, Harris, Johnson, Kaufman, Parker,
Tarrant, Travis and Williamson Counties**

Contact Richard McComb at 817-608-2340 or rmccomb@nctcog.org
www.nctcog.org/trans/air/hevp/reep.asp

AIR QUALITY PROGRAMS: HIGH EMITTING VEHICLES

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NCTCOG Emissions Database

Goals

Provide a Database Available 24/7 to All Law Enforcement Officers to Assist in the Verification and Enforcement of Fictitious/Counterfeit Inspection and Registration Certificate Track Enforcement Citations Issued by Officers



Statewide Coordination

Contains Inspection Records for all of the 17 Nonattainment Counties

Contains Registration Records for all Texas Counties Currently Utilized by 4,111 Officers in 117 Jurisdictions

Contact Richard McComb at 817-608-2340 or rmccomb@nctcog.org
www.nctcog.org/trans/air/hevp/reep.asp

AIR QUALITY PROGRAMS: HIGH EMITTING VEHICLES

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Regional Smoking Vehicle Program

Goal

Advise Owners Their Vehicles May Be Creating Excessive Smoke and Emitting Harmful Pollutants

Various Options for Reporting

Online: www.smokingvehicle.net

Wireless Phone: #SMOKE (#76653)

Landline Phone: 817-704-2522



Don't Choke, Call #SMOKE

Statewide Coordination

NCTCOG Administers Regional Smoking Vehicle Program for North Central Texas

TCEQ administers Smoking Vehicle Program for Remainder of State

Contact Russell Garner at 817-704-2508 or rgarner@nctcog.org
www.smokingvehicle.net

AIR QUALITY PROGRAMS: CLEAN TECHNOLOGY

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Select Programs

Electric Vehicles North Texas

Coordination of Partnerships to Prepare North Texas for Transition to Plug-In Electric Vehicles www.nctcog.org/evnt



North Central Texas Clean School Bus Program

Funding and Resources for Schools and Bus Operators
www.nctcog.org/CleanSchoolBus



North Texas Green and Go Partnership

Program to Encourage Use of Low Emitting Vehicles for Taxicabs and Limousines
www.northtexasgreenandgo.org



SmartWaySM Program

Affiliate of EPA's National Program
SmartWay Transport Program for Freight
SmartWay Certified Vehicles for Consumers
www.epa.gov/smartway



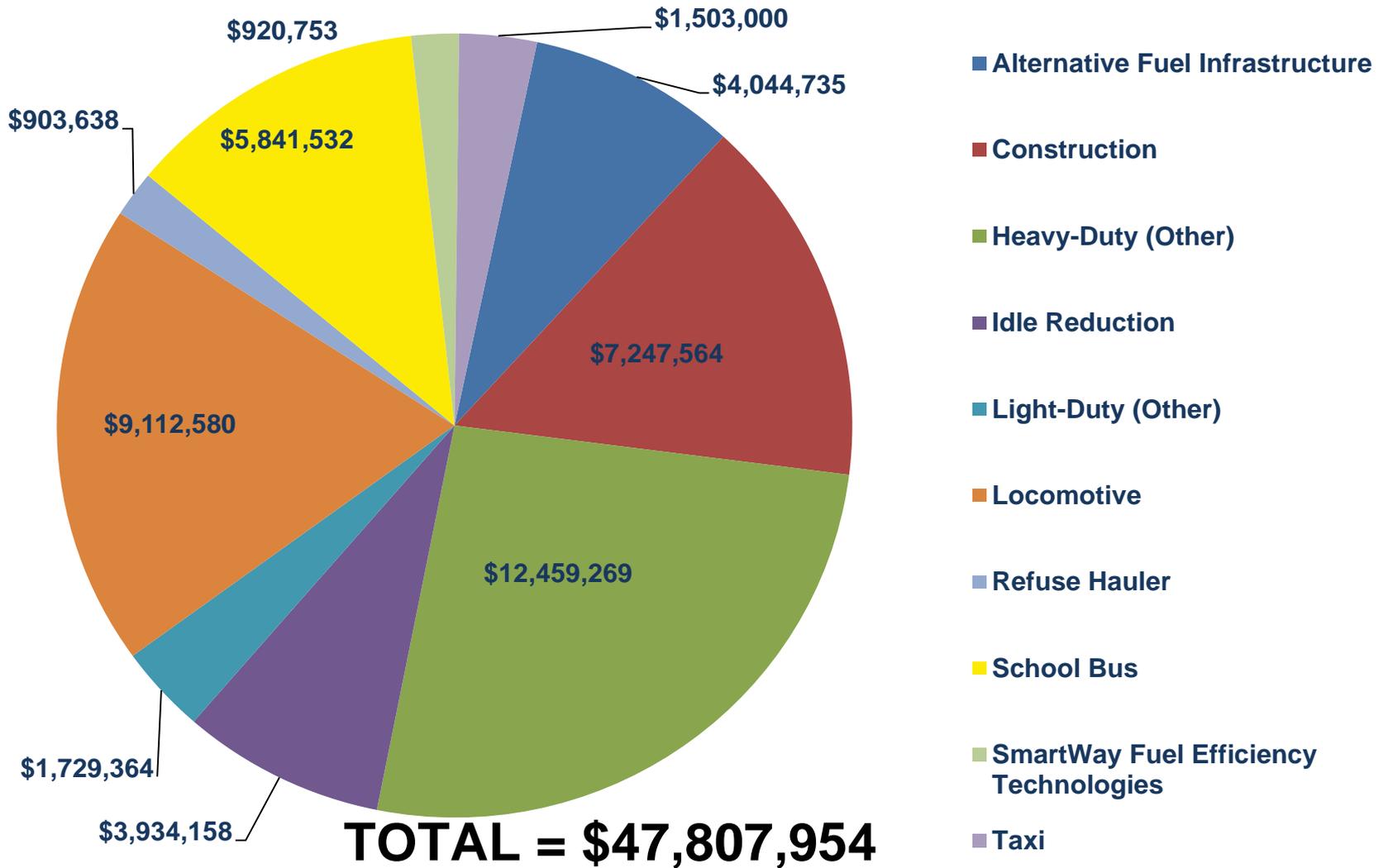
Texas Emissions Reduction Plan Partnership Program

Funding for Heavy-Duty On-Road and Non-Road Vehicles and Equipment www.nctcog.org/trans/air/programs/terp



AIR QUALITY PROGRAMS: CLEAN TECHNOLOGY

Funding Opportunities from NCTCOG*



*Funds awarded by NCTCOG between 2006 and 2011 for various project types through competitive calls for projects.

Rule Requirements

No gasoline or diesel powered motor vehicle over 14,000 pounds (GVWR) may idle the main engine for more than 5 minutes (30 minutes for buses) when the vehicle is not in motion.

Applicable:
Year-Round

Within Jurisdictions That Have Adopted the Rule and Signed an Memorandum of Agreement (MOA) with the Texas Commission on Environmental Quality

Exemptions:

Vehicle Type
Operations

A/C + Heating (limited exemption)

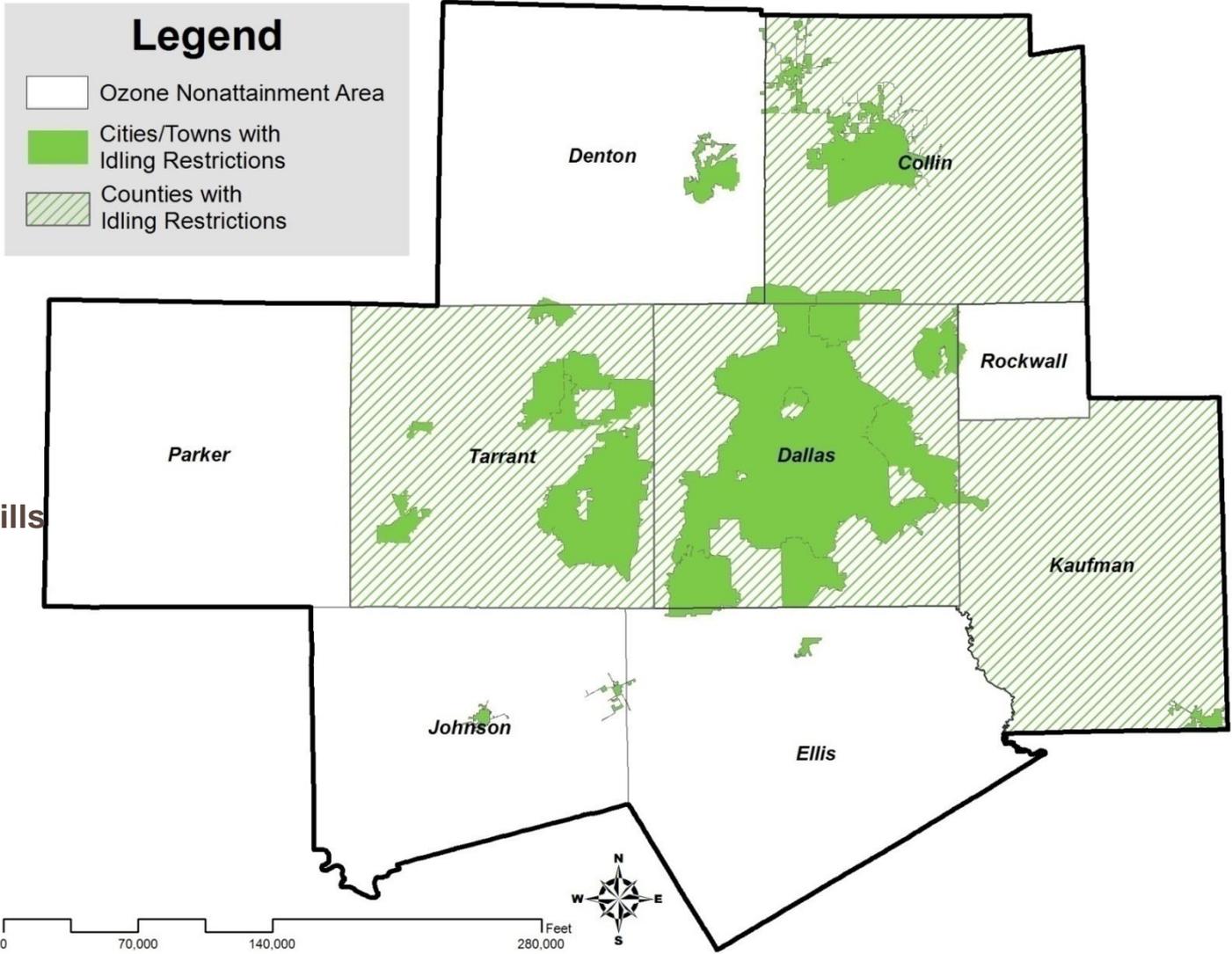


Contact Amanda Brimmer at 817-608-2354 or abrimmer@nctcog.org
www.EngineOffNorthTexas.org

AIR QUALITY PROGRAMS: LOCALLY ENFORCED IDLING RULES

North Central Texas Adoptees

- Adopting Entities***
- City of Arlington
 - City of Benbrook
 - City of Cedar Hill
 - City of Celina
 - City of Colleyville
 - City of Dallas
 - City of Euless
 - City of Hurst
 - City of Keene
 - City of Lake Worth
 - City of Lancaster
 - City of Mabank
 - City of McKinney
 - City of Mesquite
 - City of North Richland Hills
 - City of Pecan Hill
 - City of Richardson
 - City of Rowlett
 - City of University Park
 - Collin County
 - Dallas County
 - Kaufman County
 - Tarrant County
 - Town of Little Elm
 - Town of Venus
 - Town of Westlake



AIR QUALITY PROGRAMS: TRY PARKING IT

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Regional Rideshare Program

What?

Ride Matching Website for the Dallas-Fort Worth Region
Combined Existing Carpool Data from DART and The T
Find Vanpool Matches in the Region Using DART, The T, and
DCTA's Vanpool Programs

How?

Log On To www.tryparkingit.com

Create an Account

Start Finding Ride Matches!

www.tryparkingit.com

Features

Set Your Commute Preference

Interactive Map – (e.g. Points of Interest, Train Routes, Aerial View)

Log Your Alternative Commutes (e.g. Carpool, Vanpool, Transit, Bike, Telecommute) and See Your Savings!

Contact Ralph Zaragoza at 817-695-9299 or rzaragoza@nctcog.org

<http://www.tryparkingit.com>

AIR QUALITY PROGRAMS: TRY PARKING IT

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My Rideshare Matches Page

NCTCOG
North Central Texas Council of Governments

Programs > Topics A-J > Topics K-Z > Departments > Services > About Us



1 2 3 4 5 6 7 < || >

Commuter Home
My Commuter Profile
My Ride Share Matches *new*
Log Alternative Commute
Logged Rideshare History
Help / Contact Us
Frequently Asked Questions
Related Links
Logout

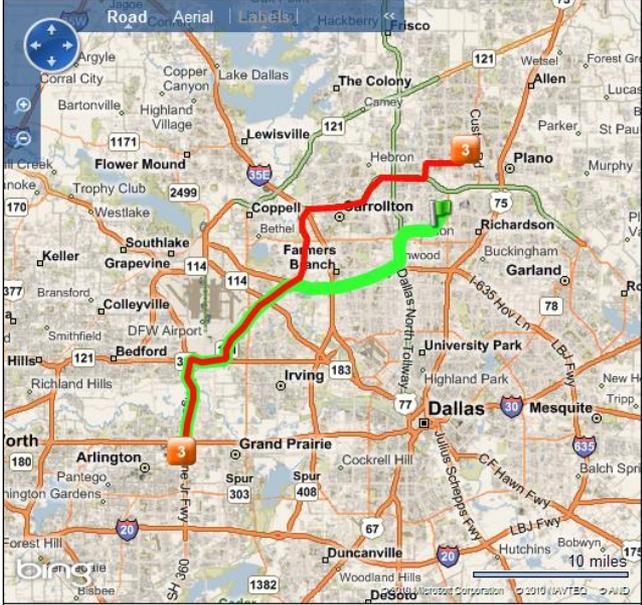
Home > Commuter Home
Hello Joe [Logout]

My Rideshare Matches

Profile Information: [Edit Profile](#)
Profile Name: Primary Profile
Start Address: 7603 Burns Run, Dallas TX, 75248
End Address: 616 Six Flags Dr, Arlington TX, 76011
Distance: 29.2 miles

Ride Matches: [Print Ride Matches](#)

- 1 Jen M. ▶
- 2 jane s. ▶
- 3 HUAJUN C. ▶
Type: Commuter
Gender: Female
Schedule: Mon, Tue, Wed, Thur, Fri
Will Drive: Yes
Smoker: No
Contact: [Send Email](#)
- 4 (vanpool) ▶
- 5 Justin M. ▶
- 6 Rose D. ▶
- 7 Timothy S. ▶
- 8 Lindsey Z. ▶
- 9 Claudia T. ▶



Point of Interest Train Routes

Bus Routes:
 DART FWTA DCTA

[Transit Information](#) [Bus Schedules](#) [Train Schedules](#)

CONTACT US | SITE MAP | LEGAL | SYSTEM REQUIREMENTS
North Central Texas Council of Governments | 616 Six Flags Drive P.O. Box 5888 Arlington, TX 76005-5888a

AIR QUALITY PROGRAMS: EDUCATION

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Air North Texas

A public awareness campaign that encourages residents of North Texas to make clean air choices.

Composed of a coalition of regional organizations committed to improving the air in North Texas.

Air North Texas aims to generate a consistent region-wide brand that promotes behavioral and lifestyle changes that impacts our health and the environment.

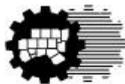


Contact Whitney Vandiver at 817-704-5639 or wvandiver@nctcog.org
<http://www.airnorthtexas.org>

AIR QUALITY PROGRAMS: EDUCATION

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Air North Texas Partners



American Lung Association – DFW Region

City of Anna

City of Arlington

City of Dallas

City of Denton

City of Fort Worth

City of Grand Prairie

City of Kennedale

City of Mesquite

City of Plano

DART

DCTA

NCTCOG

North Texas Clean Air Coalition

Dallas County

Parker County

Tarrant County

TxDOT – Dallas

TxDOT – Fort Worth

U.S. Green Building Council – North Texas Chapter

University of Texas at Arlington

The-T

AIR QUALITY PROGRAMS: EDUCATION

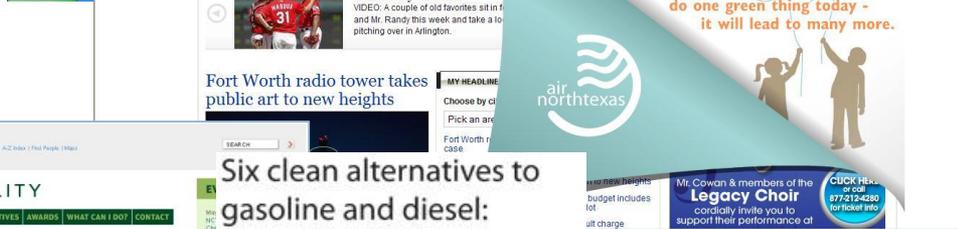
Air North Texas Communication/Events

go green
breathe clean



Tomorrow is Clean Air Action Day.

Day. Be
join U
thing
There
can d
Visit
more



Six clean alternatives to gasoline and diesel:

- ethanol
- biodiesel
- propane
- electricity
- hybrid
- compressed natural gas



AIR QUALITY PROGRAMS: EDUCATION

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Air North Texas' Clean Air Action Day – July 7

Clean Air Action Day (7.7.7.7) - A day designated to observe clean air actions and healthier living in North Texas.

The screenshot shows the 'take action' page on the Air North Texas website. The page features a navigation menu on the left with links for 'Home', 'About us', 'Media/Press', 'Business', 'Just the facts', 'Air Facts', 'Partner resources', and 'Links'. The main content area is titled 'take action' and includes a '7.7.7.7' section with a call to action: 'It's up to each of us to take responsibility for the air we breathe. Between 7 a.m. and 7 p.m. on July 7, North Texas will join together in committing to each do at least one thing that will enable us to breathe the cleaner air.' Below this is a 'Take Action — Choose Clean Air' section with a form for 'Email Address' and 'ZIP Code'. A list of actions includes: 'Carpool or carpool', 'Use mass transit', 'Bike or walk', 'Work from home', 'Take lunch to work or summer activities', 'Observe speed limits', 'Avoid idling', 'Combine trips or drive less', 'Use technology such as teleconferencing or video conferencing to reduce vehicle trips for meetings', 'Report smoking, polluting vehicles (SPRINK)', 'Confirm you are up to date on regular vehicle maintenance and state emissions and safety inspection', 'Switch to compact fluorescent light bulbs', and 'Encourage someone else to make clean air choices on 7/7'. There is also a 'Save the date July 7 7am-7pm' graphic and a 'Current Ozone Level' indicator showing 'GOOD'.

On 7/7, anytime from 7 am to 7 pm residents commit to clean air actions and share their go green, breathe experience with our community.

Visit www.airnorthtexas.org/7777.asp for details

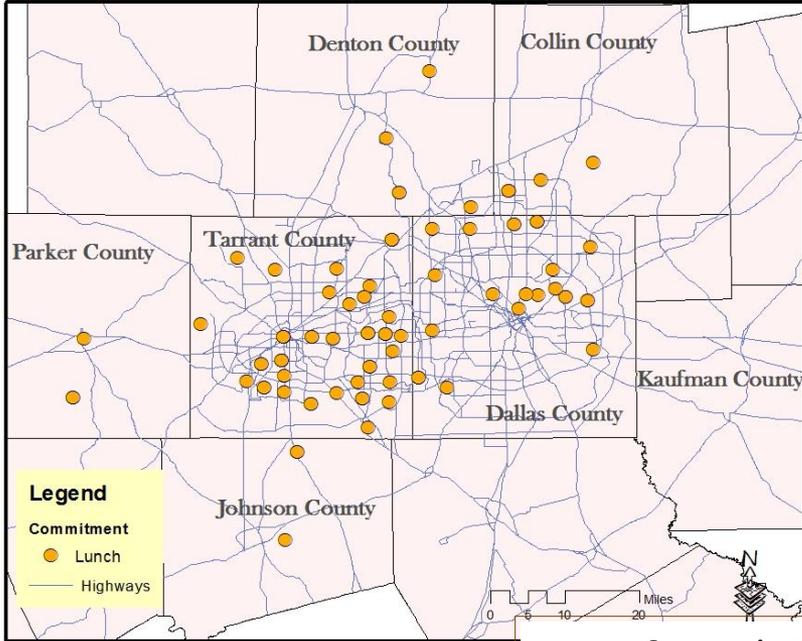
**Contact Whitney Vandiver at 817-704-5639 or wvandiver@nctcog.org.
<http://www.airnorthtexas.org>**



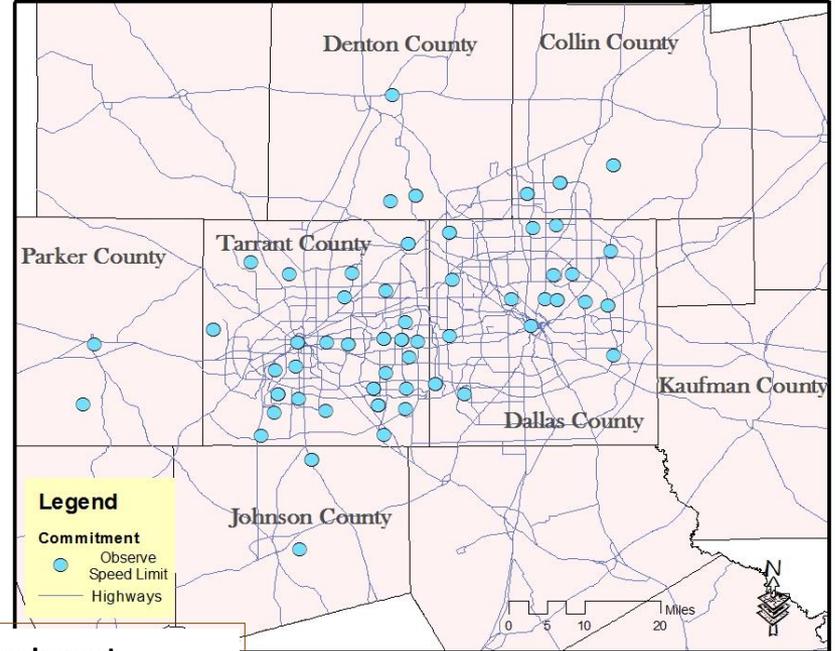
AIR QUALITY PROGRAMS: EDUCATION

Air North Texas' Results

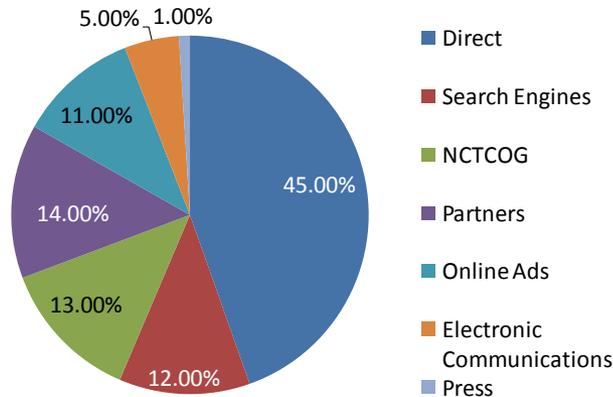
July 7th Took Lunch to Work



July 7th Observed the Speed Limits



Communication Mediums Impact



AIR QUALITY PROGRAMS: EDUCATION

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Dallas-Fort Worth Clean Cities Coalition

Goal

Create a 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.

Benefits

Quarterly Coalition Meetings

Clean Vehicle Events, Workshops, and Conferences

Monthly Electronic Newsletter

Clean Cities TV and other Videos

Outreach to Fleets and the General Public

PR for Fleets (includes social media)



Contact Pamela Burns at 817-704-2510 or pburns@nctcog.org

<http://www.nctcog.org/cleancities>

Contact Information

Mindy Mize

Program Manager

mmize@nctcog.org

(817) 608-2346

Whitney Vandiver

Communications Specialist

wvandiver@nctcog.org

(817) 704-5639

www.nctcog.org/trans/air



North Central Texas Council of Governments

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