

PROMOTING AIR QUALITY BY ENHANCING PARTNERSHIPS & BOOSTING SUSTIANABLE PRACTICES

**University of Texas at Arlington
Fort Worth**

July 24, 2012

**Mindy Mize, Program Manager
North Central Texas Council of Governments**

PROMOTING AIR QUALITY BY ENHANCING PARTNERSHIPS & BOOSTING SUSTIANABLE PRACTICES

Outline

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**Overview of the North Central Texas
Council of Governments (NCTCOG)**

Background on Air Quality

Air Quality Initiatives

Partnerships

Funding



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

10-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)

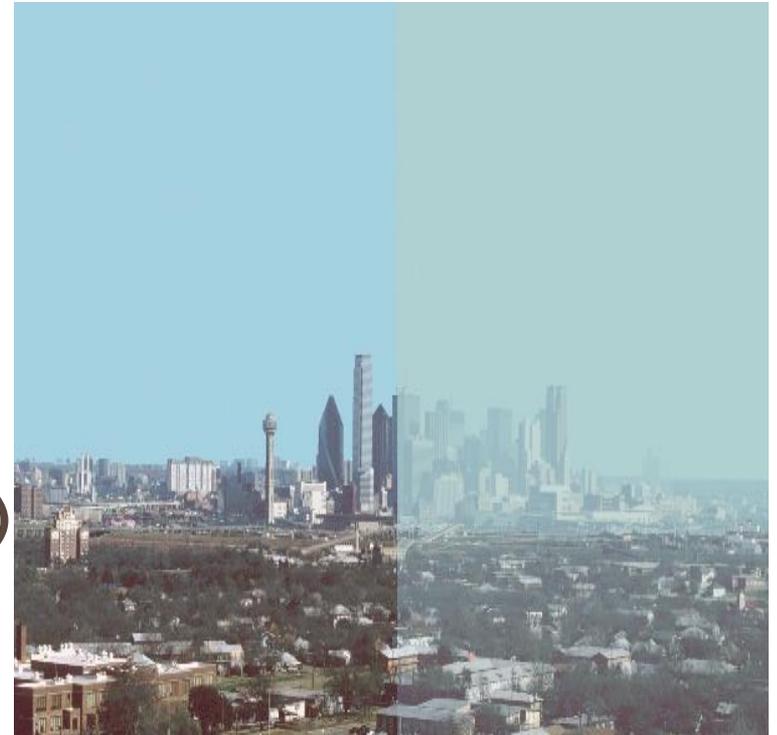
Nitrogen Oxides (NO_x)

Ozone (O₃)

Particulate Matter (PM₁₀ & PM_{2.5})

Sulfur Dioxide (SO₂)

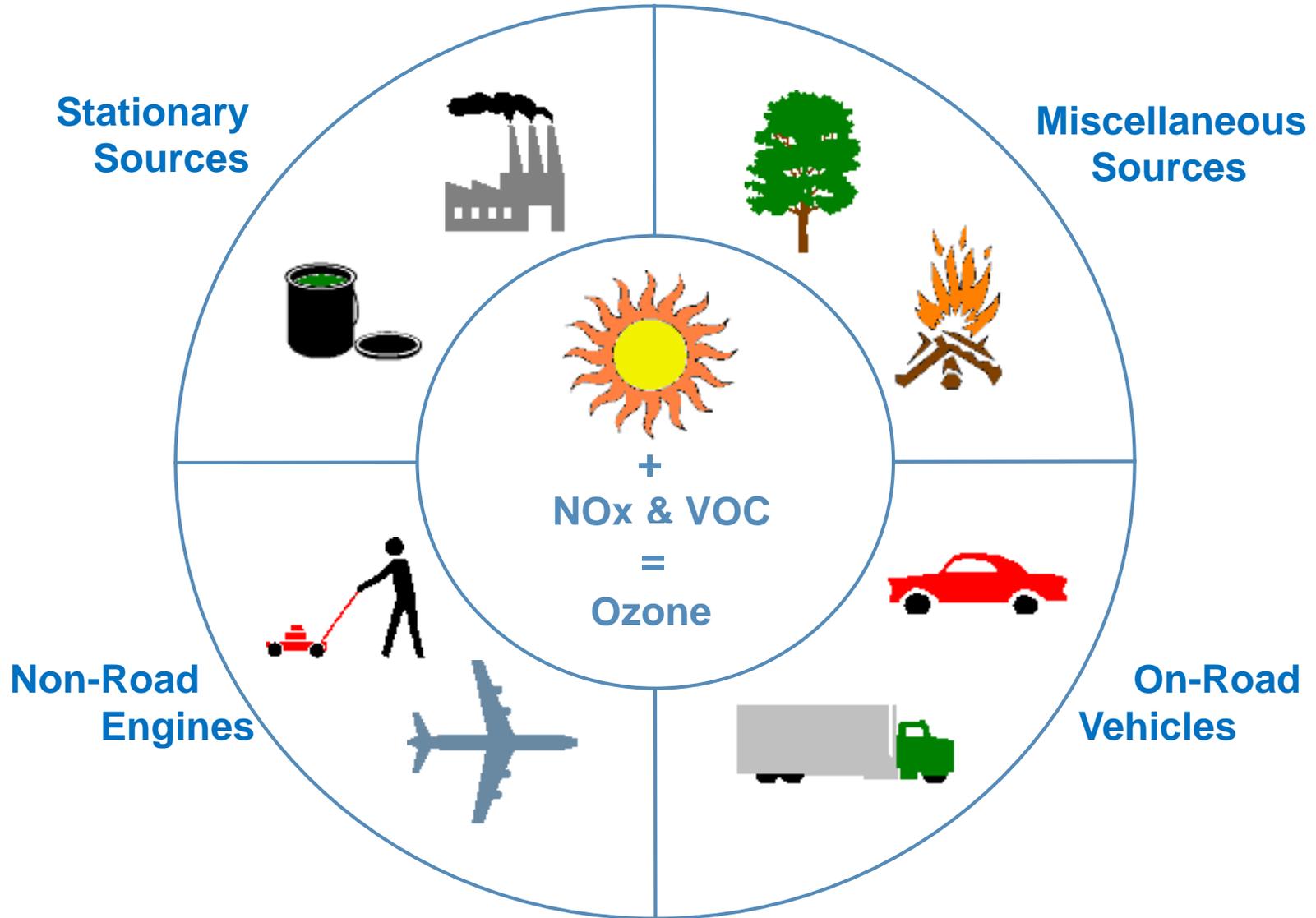
Future ? CO₂, NO₂, Etc.



STATE OF AIR QUALITY IN NORTH TEXAS

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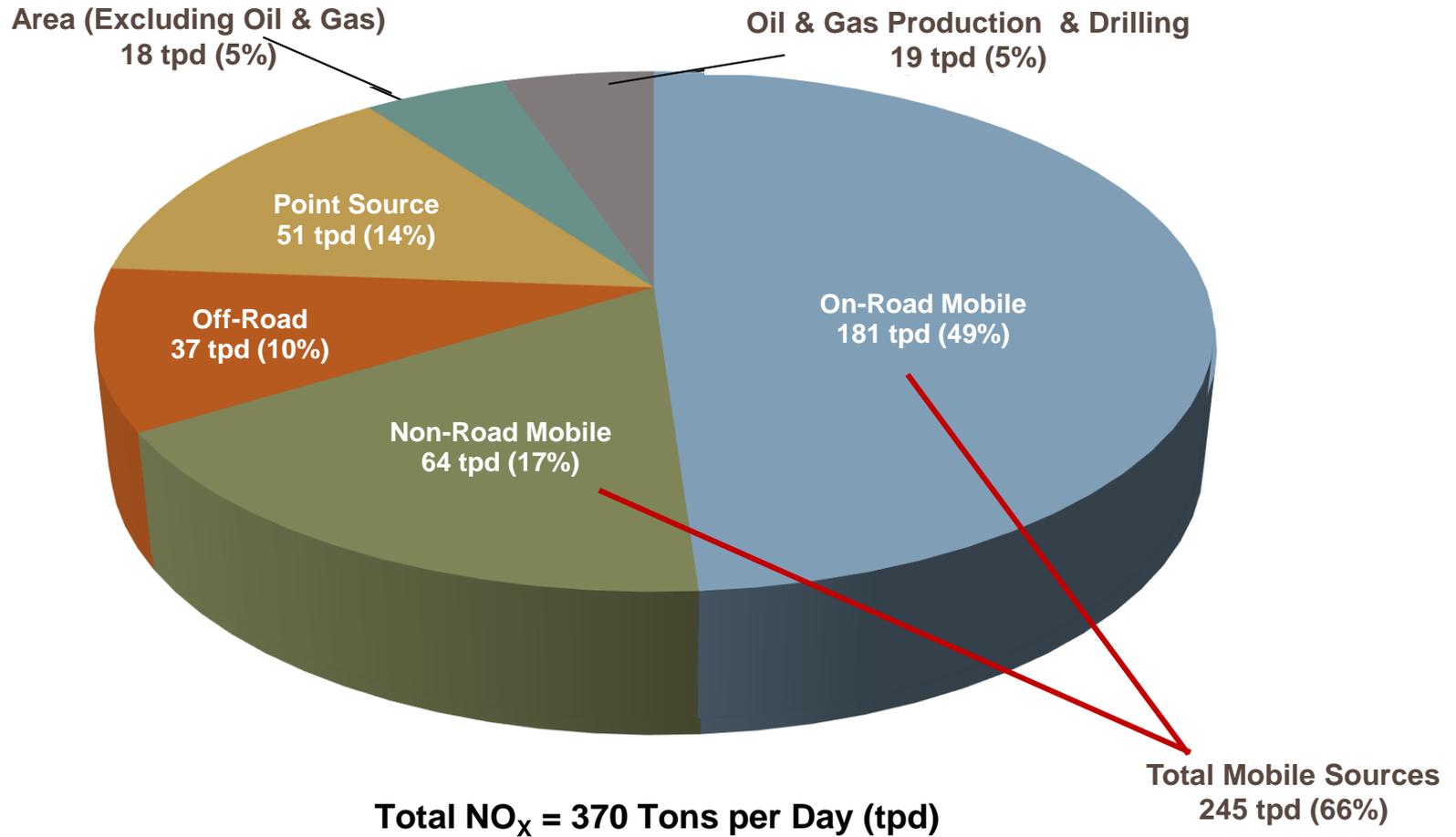
Ozone Formation



ESTIMATED 2012 NO_x EMISSION INVENTORY FOR NORTH TEXAS

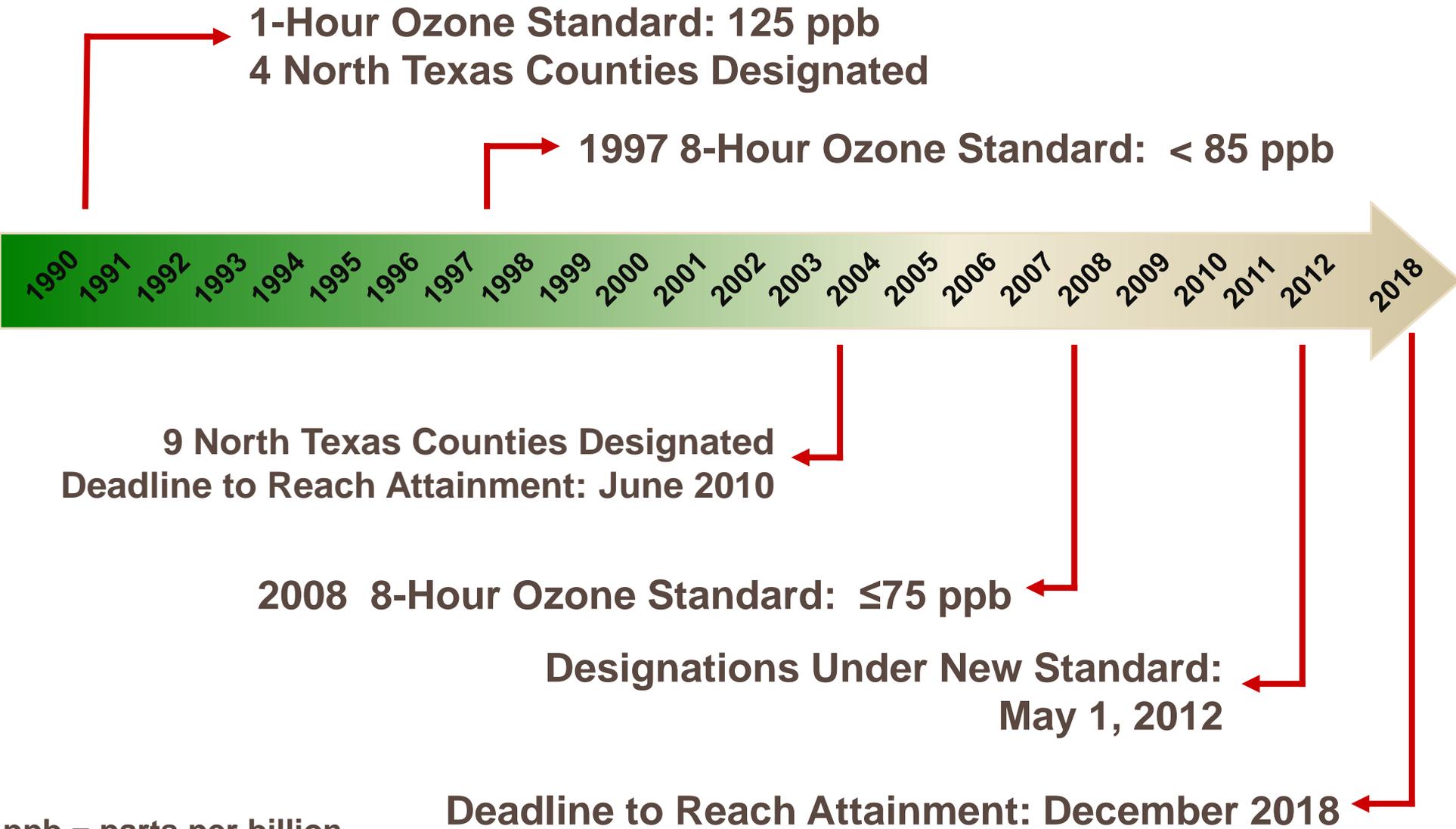
8

Source Category Estimates



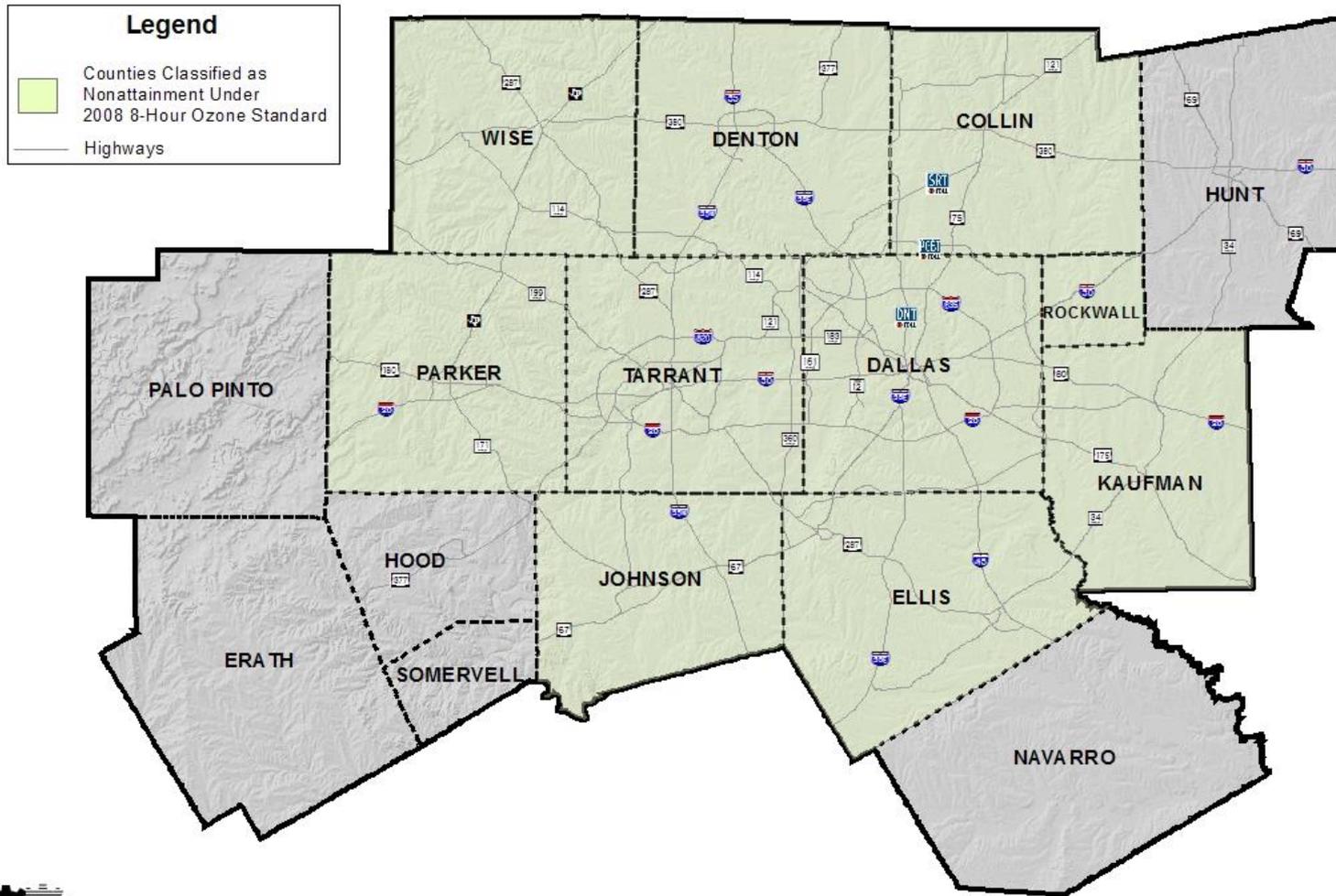
FEDERAL OZONE STANDARDS

DFW Nonattainment Area Timeline



ppb = parts per billion

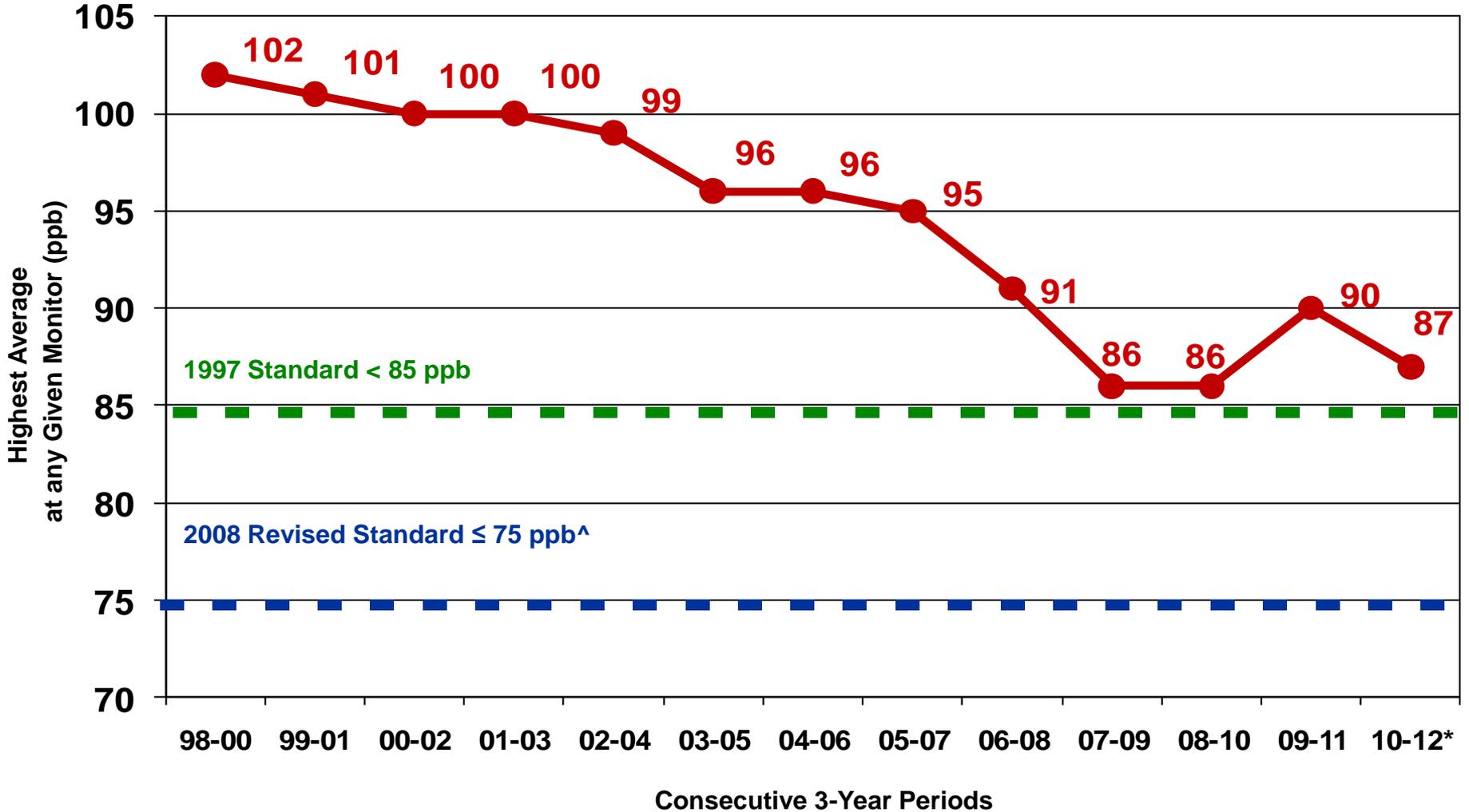
DFW OZONE NONATTAINMENT AREA



8-HOUR OZONE STANDARD HISTORIC TRENDS

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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 equal to or less than 75 parts per billion (ppb).

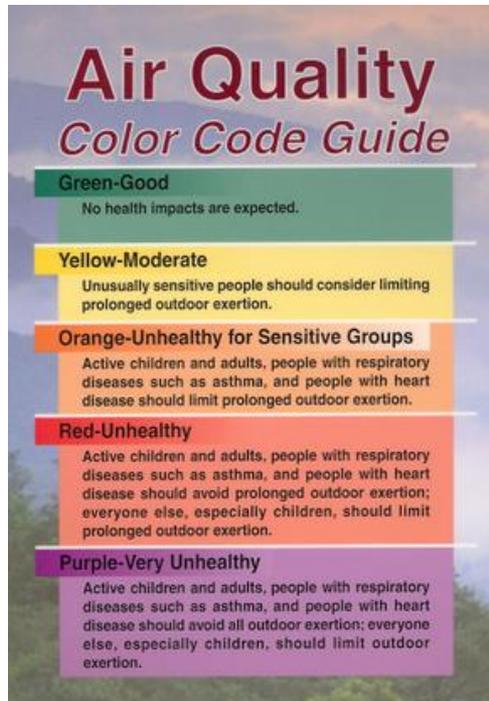
*Not a full year of data. Current as of 07/12/2012

UNDERSTANDING THE OZONE SEASON

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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

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

Air Quality Initiatives

AIR QUALITY INITIATIVES: PROGRAMS

Minimizing Air Quality Impacts



Don't Choke, Call #SMOKE



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



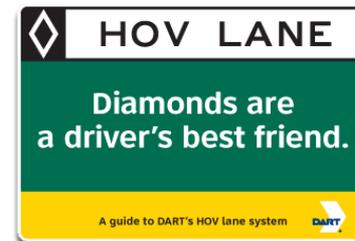
NCTCOG EMISSIONS DATABASE



Dallas-Fort Worth CLEAN CITIES



tryparkingit.com



go green. breathe clean.



AIR QUALITY INITIATIVES: 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!

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 INITIATIVES: 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

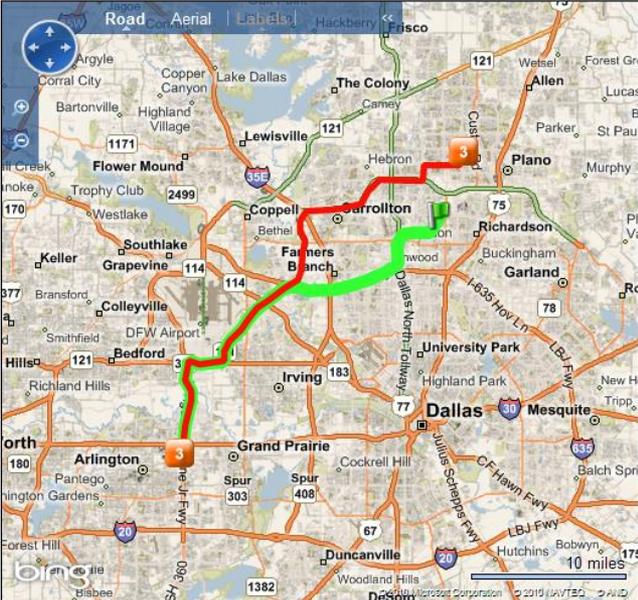
Home > Commuter Home
Hello Joe [Logout]

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 INITIATIVES: LOCALLY ENFORCED IDLING RULES

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)



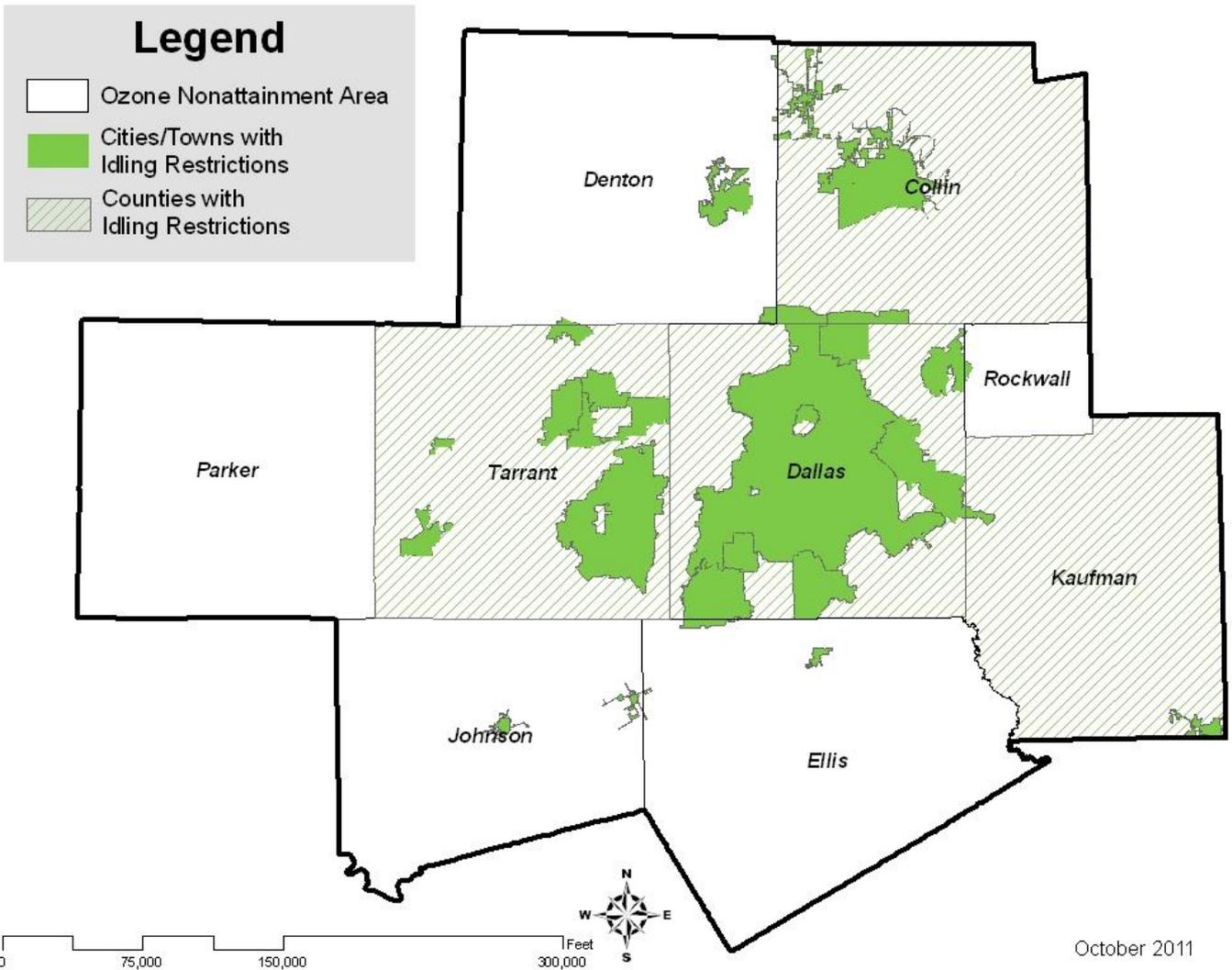
Contact Amanda Brimmer at 817-608-2354 or abrimmer@nctcog.org
www.EngineOffNorthTexas.org

AIR QUALITY INITIATIVES: 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 Duncanville
- 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 H
- 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



PARTNERSHIPS: AIR QUALITY 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

322 Stakeholders

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>

Dallas-Fort Worth
CLEAN CITIES

AIR QUALITY INITIATIVES: 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

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 INITIATIVES: 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



NCTCOG EMISSIONS DATABASE

Statewide Coordination

Contains Inspection Records for all of the 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



Partnerships

PARTNERSHIPS: 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

PARTNERSHIPS: AIR QUALITY 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>

PARTNERSHIPS: AIR QUALITY 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 North Richland Hills

City of Plano

DART

DCTA

NCTCOG

North Texas Clean Air Coalition

Dallas County

Parker County

Tarrant County

TxDOT – Dallas

TxDOT – Fort Worth

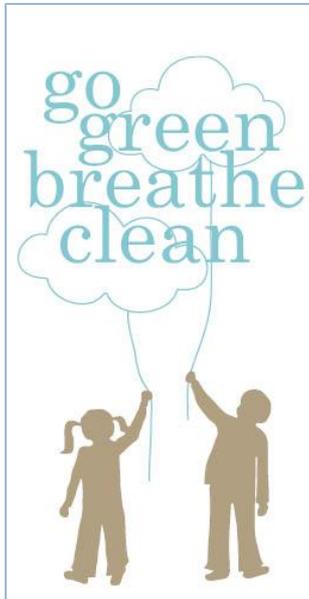
U.S. Green Building Council – North Texas Chapter

University of Texas at Arlington

The-T

PARTNERSHIPS: AIR QUALITY EDUCATION

Air North Texas Communication/Events



Star-Telegram.com | News, Videos & Commentary about Fort Worth, Arlington, Dallas, Texas, Cowboys & more

save the date 7/7 from 7am to 7pm

Mark your calendar for Clean Air Action Day

Do at least one thing to help improve air quality

BE AIR AWARE WITH AIR NORTH TEXAS

Sign up to receive Air Pollution Watches and Warnings. On Watch days, help improve air quality by doing at least one clean air action. On Warning days, protect your health by limiting outdoor activity. Sign up and log your commitments at airnorthtexas.org.

dallasnews.com

The Dallas Morning News

News Sports Business Entertainment Life Health Travel Opinion Auto

Community News Crime Education State Washington Nation/World Columns

Home > News > Transportation

BE AN AIRHEAD

Mantén el aire en tu mente.

Empezando el 7/7, haga algo cada día por el ambiente para mantener el aire en el Norte de Texas limpio. Es más fácil de lo que usted se imagina, y la vida que usted cambie podría ser la suya. Visite airnorthtexas.org para saber como hacerlo.

is the air safe today?

It's hard to judge on our own. Luckily, you can sign up for air quality alerts that will notify you when you and your children should use caution outdoors. And, you and your family can take action to make sure we have more good air quality days by carpooling to school when you receive an alert. Sign up and learn more at www.airnorthtexas.org.

Six clean alternatives to gasoline and diesel:

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



College Town, UTA

@CollegeTownUTA

College Town, UTA provides information that connects the maverick community with place to go for conversation, entertainment and enrichment.

<http://www.uta.edu/ucomm/collegetown/>



College Town, UTA @CollegeTownUTA

How do you help north TX air quality? Join UTA Sustainability Office & Air North Texas by pledging to Be Air Aware: airnorthtexas.org/individuals201...

Expand

Johnson was given four DART passes for July, plus tickets for attractions along the rail line, such as the Dallas Zoo and Fair Park.

Corps of Engineers says safety determination for Trinity toll road still far off

PARTNERSHIPS: AIR QUALITY EDUCATION

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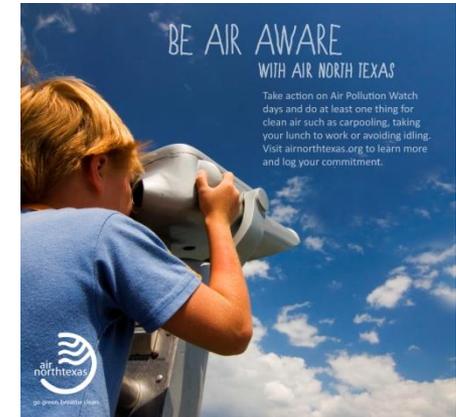
Be Air Aware with Air North Texas

Air North Texas' 2012 Ozone Season Campaign Theme

Encourage North Texans to Be Aware of Air Pollution Watches and Warnings

Website for Businesses, Local Governments, and General Public To Make Commitments for Actions They Will Take on Air Pollution Watch Days

Campaign Stresses Health Message on Air Pollution Warning Days



www.airnorthtexas.org/2012.asp

PARTNERSHIPS: AIR QUALITY 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 the 'go green breathe clean' logo and a 'save the date july 7 7am-7pm' graphic. The main heading is 'Take Action — Choose Clean Air'. Below this, there is a text prompt: 'What clean air choices will you make between 7 a.m. and 7 p.m. on Wednesday, July 7?' followed by an 'Email Address' and 'ZIP Code' input field. 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 (SMOKE), Confirm you are up to date on regular vehicle maintenance and state emissions and safety inspection, Switch to compact fluorescent light bulbs, Encourage someone else to make clean air choices on 7/7, and Tell a friend about Air North Texas and options that help improve air quality in the region. There is also a 'Save' button at the bottom.

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.gov
<http://www.airnorthtexas.org>



PARTNERSHIP: 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



DSSI Overview:

**Public-Private Partnership Initiative Managed by
the City of Dallas, NCTCOG, and EPA**

Purpose:

**To Rapidly Reduce Emissions of Air and Other Pollutants
Through Partnerships Among Public, Private, and
Non-Profit Sector**

**To Encourage Sustainable Practices in Dallas-Area
Government**

In Operation:

July 1, 2007 – June 30, 2010

Memorandum of Understanding signed March 21, 2007

Development:

EPA Meeting with 60 Stakeholders Held in December 2006

52 Suggestions for Environmental Improvements Presented

7 Priorities Were Selected:

Urban Heat Island and Stormwater Mitigation

Green Taxis

Affordable Green Housing

Energy/Efficiency/Renewable Energy in City Operations

Energy Efficiency Outreach and Education

Energy Efficiency and Pollution Prevention in Institutions

Off-Road Sources

Financial Investment:

\$250,000 by EPA

\$3.8 million by Partners

Enlisted 28 Partners

Examples: JC Penny, Yellow Cab, 3 Billion Solar Roofs

Reductions:

610,545 tons of CO₂

1,434 tons of SO₂

414 tons of NO_x*

Most Successful DSSI Projects:

Affordable Green Housing

Energy Efficiency/Renewable Energy in City Operations

Green Taxis

PARTNERSHIP: REGULATED FLEET PROGRAM

DSSI Priority #2 – Green Taxis



PARTNERSHIP: REGULATED FLEET PROGRAM

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Taxi Cab Vehicle Information

Numerous Vehicles (~2,000 Taxi Cabs In Region)

Used Vehicles Purchased with Cash (~80,000 Miles)

Typical Fleet Age (4-5 Years Old)

High Mileage (60,000-80,000 Miles Per Year)

Fuel Consumed (~5.5 Million Gallons)

Nitrogen Oxide Emissions (~100 Tons Per Year)

Congested Driving Conditions In Metroplex

PARTNERSHIP: REGULATED FLEET PROGRAM

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DSSI Green Taxi Cab Goals

Facilitate Replacement Of Taxi Cabs With Green Vehicle Options In The North Central Texas Region

Offset Incremental Cost Of Green Taxi Purchases With Financial And Non-Financial Incentives

Increase Public Demand For Green Taxi Cab Service

PARTNERSHIP: REGULATED FLEET PROGRAM

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DSSI Green Taxi Cab Program Working Group

City of Dallas

Love Field (Owned by City of Dallas)

City of Fort Worth

Dallas-Fort Worth International Airport

EPA Office of Air Quality Policy and Standards

EPA Office of Transportation and Air Quality

EPA Region 6

North Central Texas Council of Governments

Texas Commission on Environmental Quality

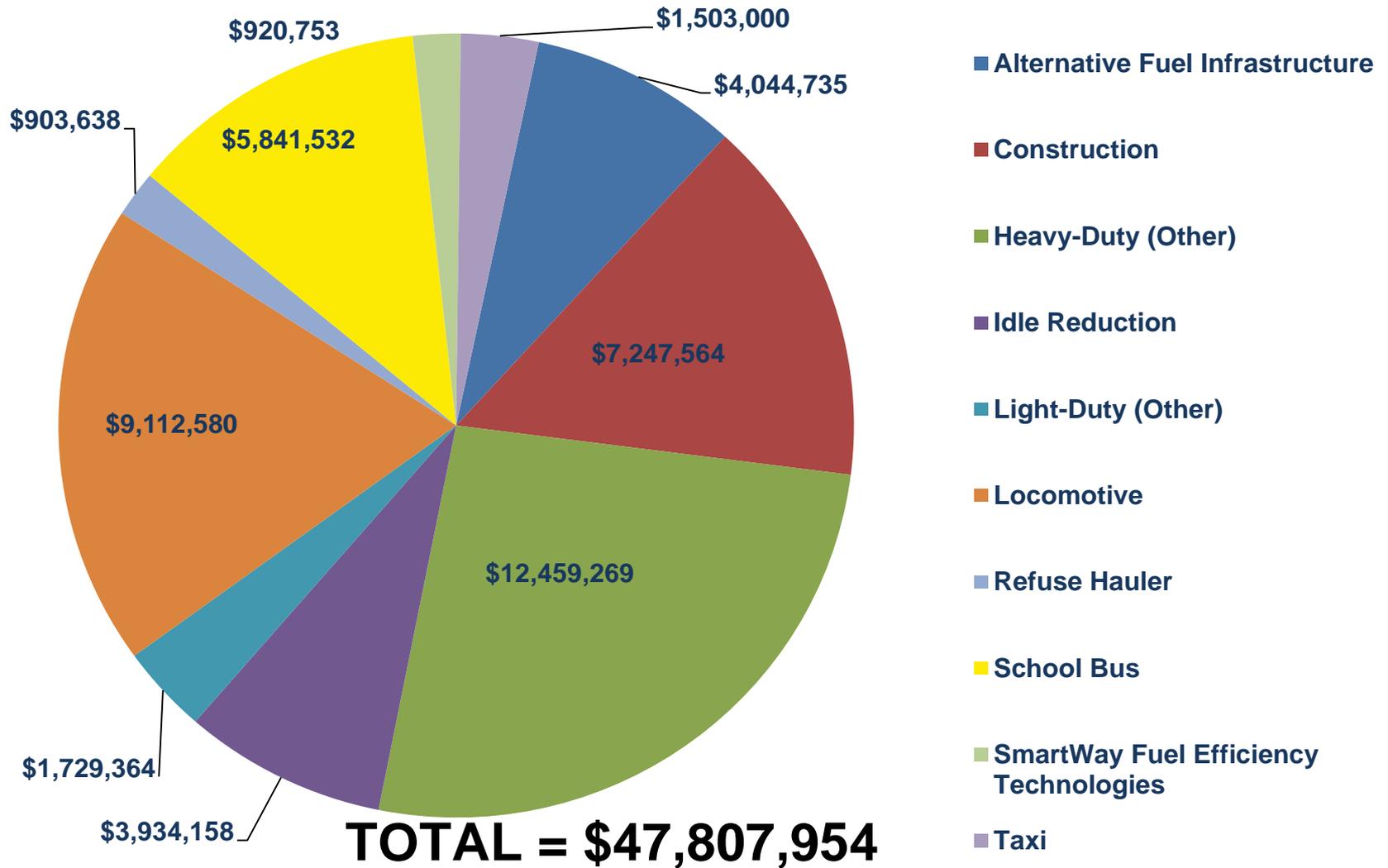


Funding



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.
Funding Website at www.nctcog.org/aqfunding

Available/Upcoming Clean Technology Funding Programs (Current as of 06/18/2012)	Eligible Technology Applications							
	Policies/ Training/ Marketing	Heavy-Duty Vehicles	School Buses	Light-Duty Vehicles	Non-Road Equipment	Refueling Infrastructure	Idle Reduction Technology	Oil and Gas Vehicles/ Equipment
Programs Offered by NCTCOG								
<u>AirCheckTexas Drive a Clean Machine Program</u>				X				
<u>Regional Idling Reduction Program [NEW]</u>		X					X	X
Additional Programs Available								
<u>Cascade Sierra Solutions Financing Opportunities</u>		X					X	X
<u>Clean Cities National Parks Initiative</u>		X		X	X	X		
<u>Community Development Transportation Lending Services</u>		X					X	
<u>H-GAC Drayage Loan Program</u>		X						
<u>Shorepower Truckstop Electrification Project</u>		X					X	
<u>TCEQ Alternative Fueling Facilities Program</u>						X		
<u>TCEQ Texas Clean Fleet Program</u>		X	X	X				X
<u>Texas Alternative Fuel Fleet Pilot Program</u>		X	X	X				
Coming Soon								
<u>Texas Natural Gas Vehicles Grants Program</u>		X						
For More Information, Visit: www.nctcog.org/AQFunding								

FUNDING: TYPES OF ASSISTANCE

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Use Them All

Grants

- Often Funded as Reimbursement
- Not Intended to Fund “Normal Fleet Attrition”
- Often Come with “Strings”

Tax Credits/Incentives

Financing Programs

Innovative/Non-Traditional Approaches

Need to Evaluate Long-Term Return on Investment

FUNDING: NCTCOG'S APPROACH

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Third-Party Administration

Administer Grants to Subrecipients

Determine Region's Needs and Opportunities

Secure and Leverage Resources for Region

Ensure Equal Opportunity and Participation

Project Prioritization

Focus on Nitrogen Oxide Reductions (Ozone Nonattainment)

**Consider Multi-Pollutant Benefits/Complements to
Other Strategic Initiatives**

Identify Eligible Projects That Face Other Funding Gaps

Consider Local Elected Official Priorities

FUNDING: TIPS FOR SUCCESS

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Developing an Application/Proposal

Responsiveness to Grant Solicitation

Follow Instructions and Do Your Homework

Respond to Selection Criteria/Emphasis Areas

Be Specific and Complete

Project Justification

Demonstrate Needs/Opportunities

Provide Technical Documentation

Quantify Expected Results

Entity Qualifications

Demonstrate Partnerships and Abilities

Demonstrate Previous Experience/Capability

Highlight Successes

Ask Questions (Early)

FUNDING: TIPS FOR SUCCESS

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Implementation

Communicate and Ask Questions!!!

Provide Regular Status Updates

Identify Issues/Concerns Promptly

Anticipate Complications and Maintain Flexibility

Establish Clear Milestones

Establish a Contingency Plan

Leverage Partnerships for Assistance

Publicize Successes

Envision Future Funding

Contact Information

Mindy Mize

Program Manager

mmize@nctcog.org

(817) 608-2346

www.nctcog.org/trans/air



North Central Texas Council of Governments

P.O. Box 5888

Arlington, TX 76005-5888