

IMPROVING AIR QUALITY IN NORTH TEXAS

ecoCoppell

October 27, 2011

Chris Klaus, Senior Program Manager
North Central Texas Council of Governments

LOCALLY ENFORCED IDLING RESTRICTIONS

Overview

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- **Background on Air Quality**
- **What Can I Do?**
- **Air Quality Programs**



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.



O₃ STANDARD AND NONATTAINMENT HISTORY

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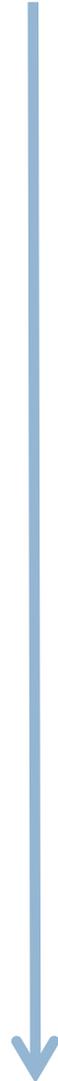
1990 Clean Air Act Amendments: 5-Year Review Cycles

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

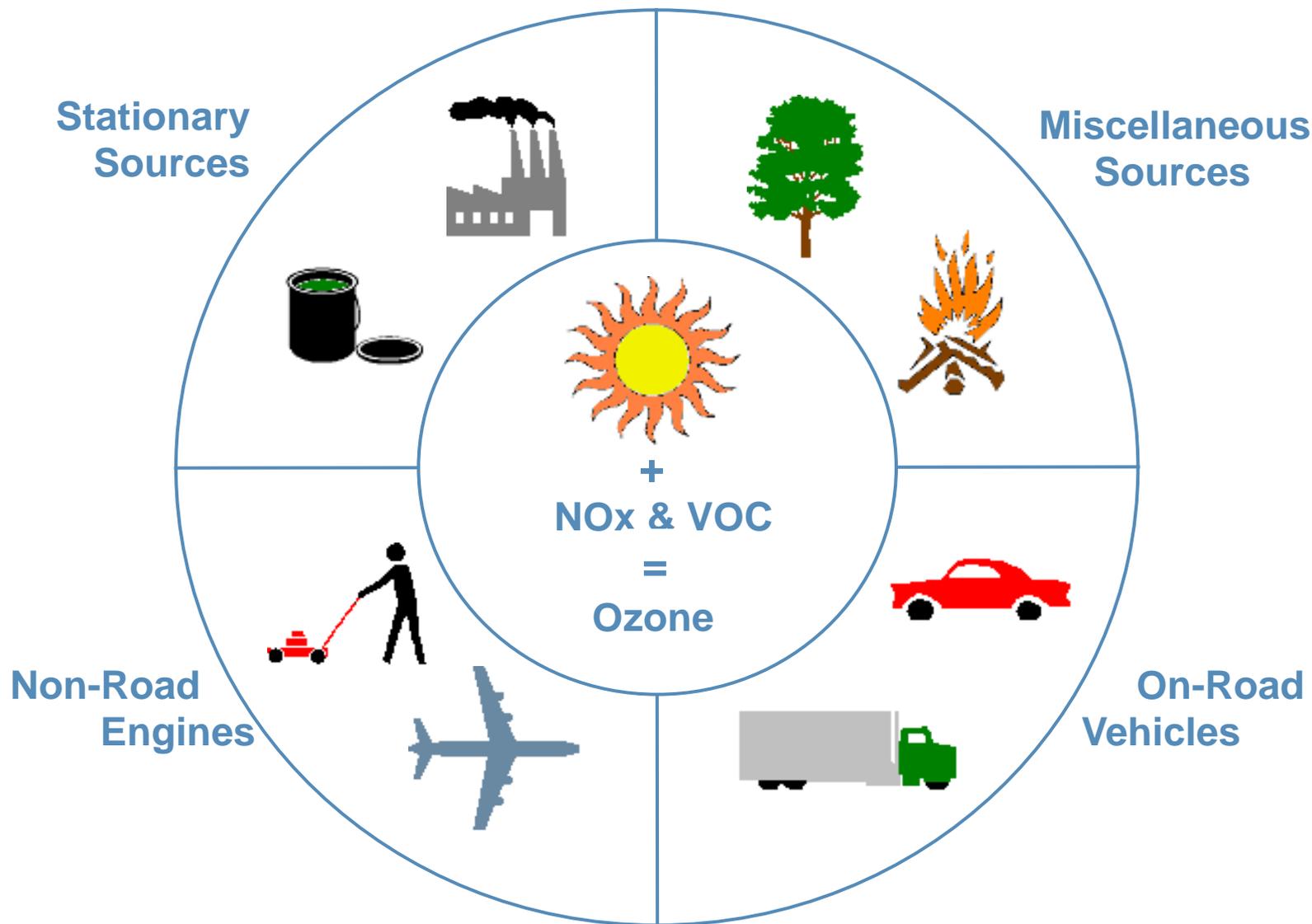
- 2004 = Standard Instigated (< 85 ppb)
- 2008 = Standard Revised (= 75 ppb)
- 2010 = “Moderate” Attainment
Deadline: Missed
- 2010 = Draft Revision Proposed
(60-70 ppb)
- 2011 = Draft Revision Withdrawn
- 2013 = “Serious” Attainment Deadline



STATE OF AIR QUALITY IN NORTH TEXAS

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Ozone Formation

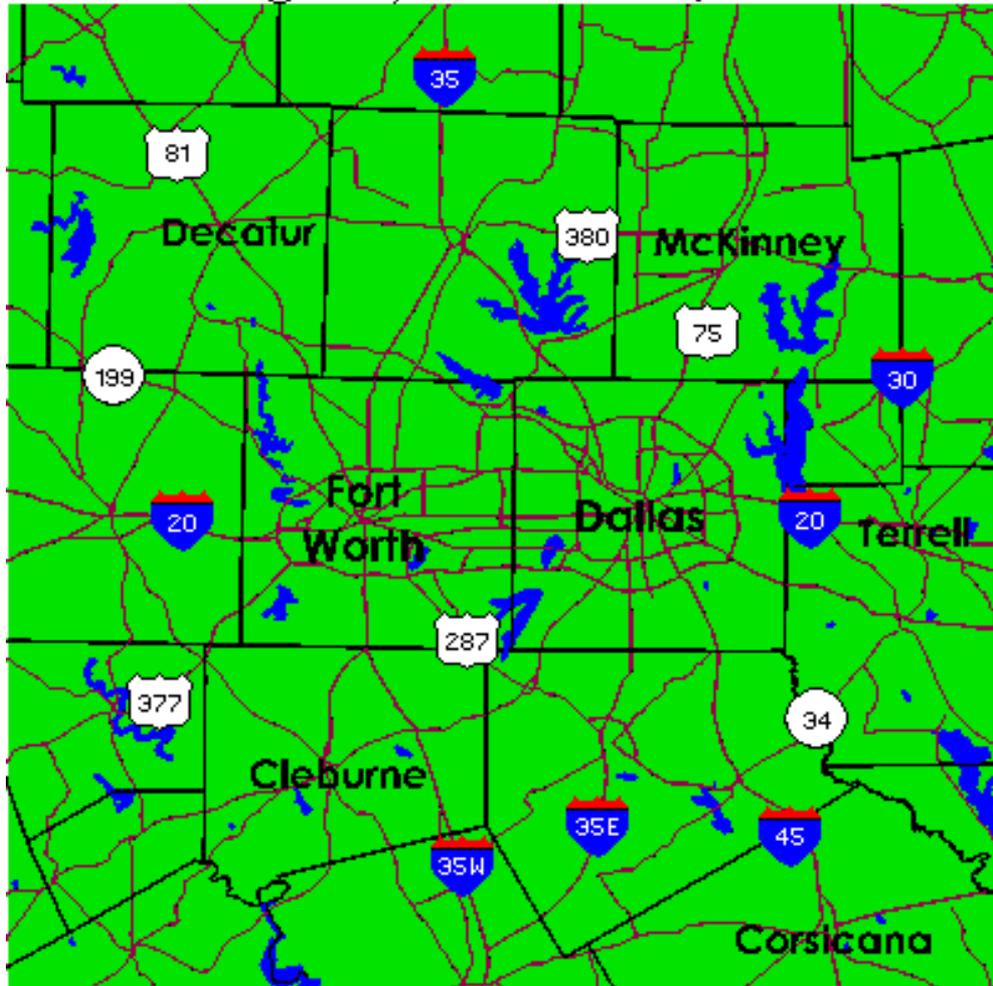


2010 OZONE SEASON

8

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

North-Central Texas
Aug 28, 2011 7 AM

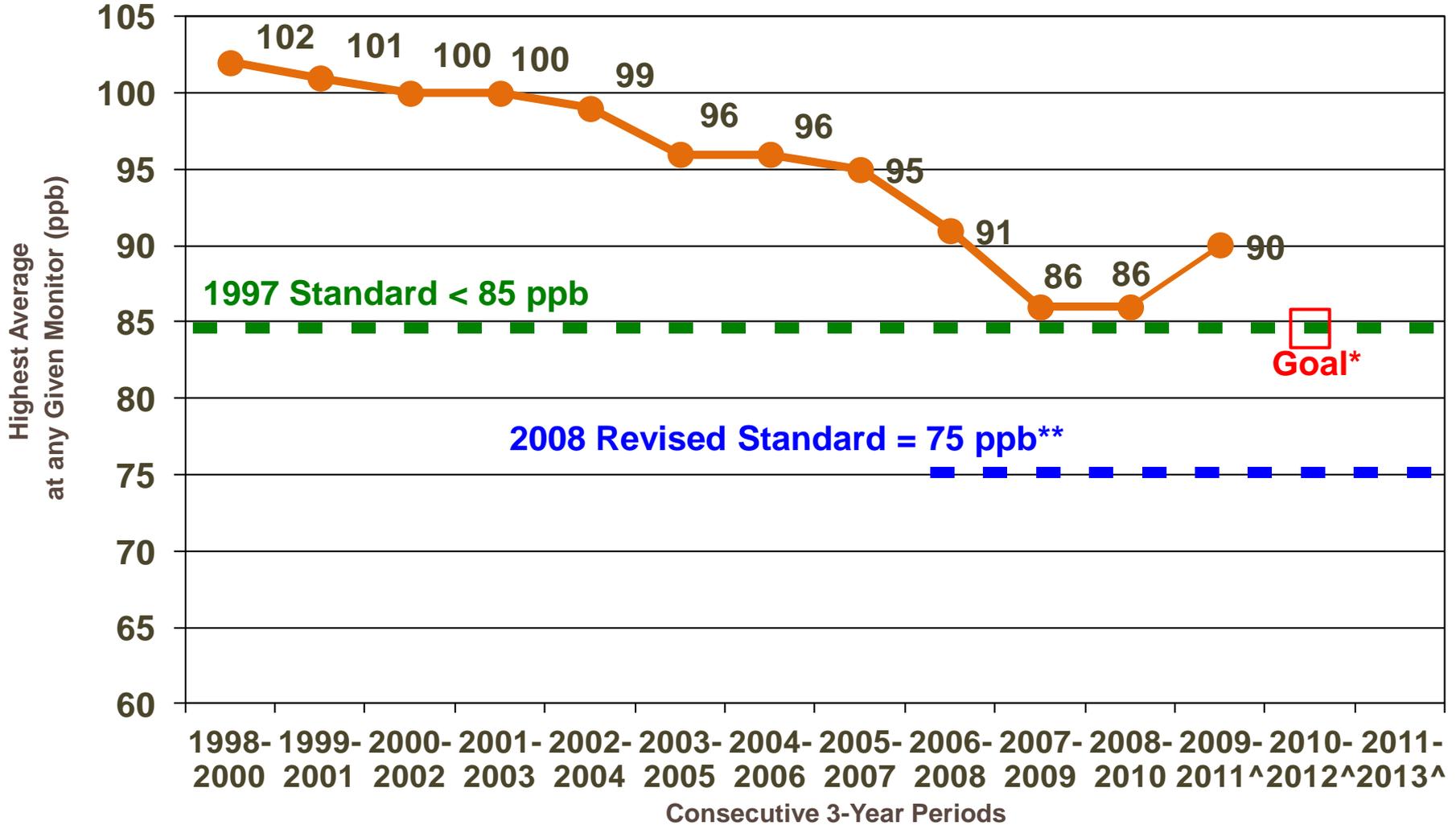


Air Quality



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.

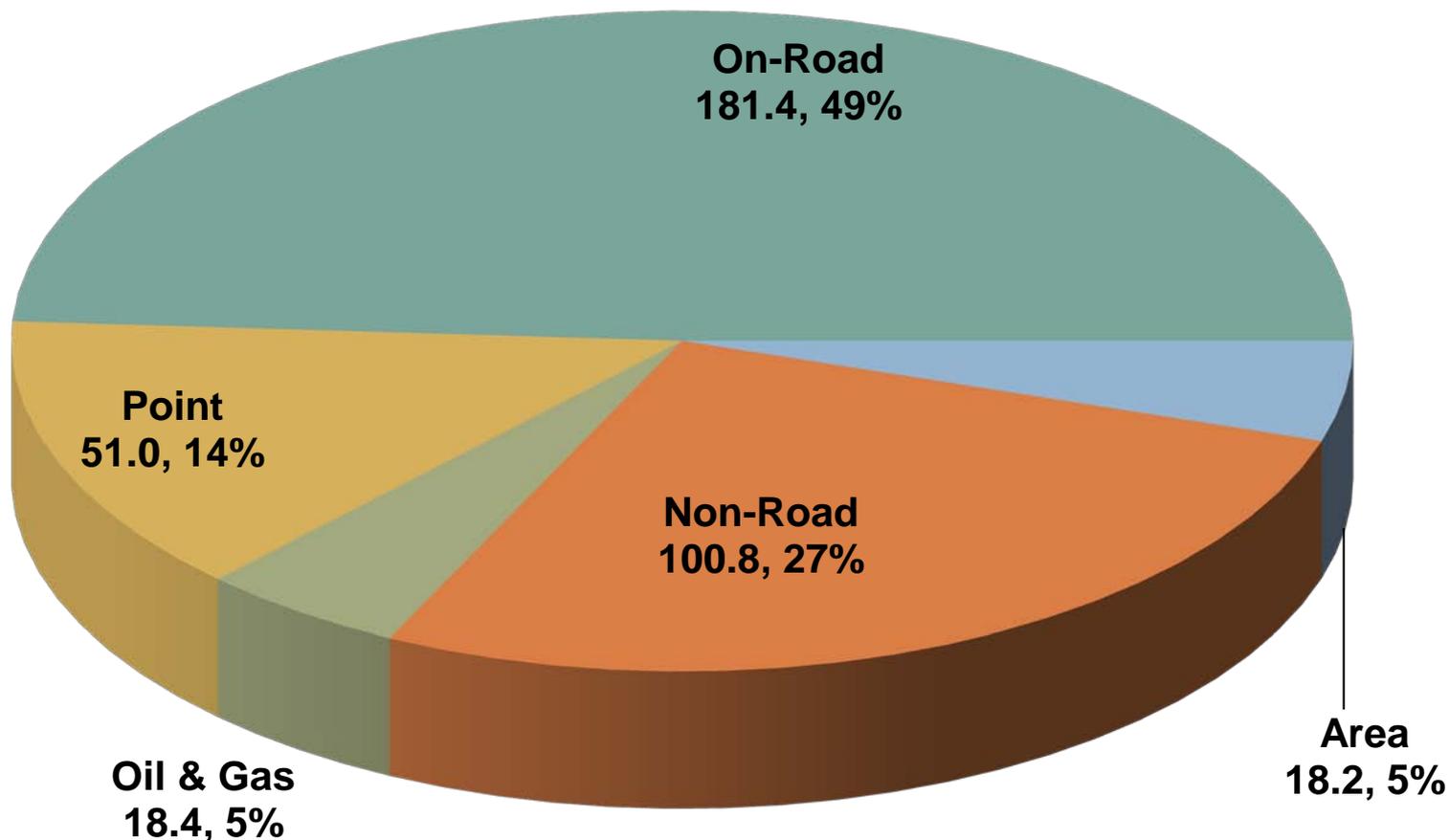
DFW NONATTAINMENT AREA

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NO_x Emission Inventories* by Source

Total NO_x = 370 Tons Per Day (tpd)

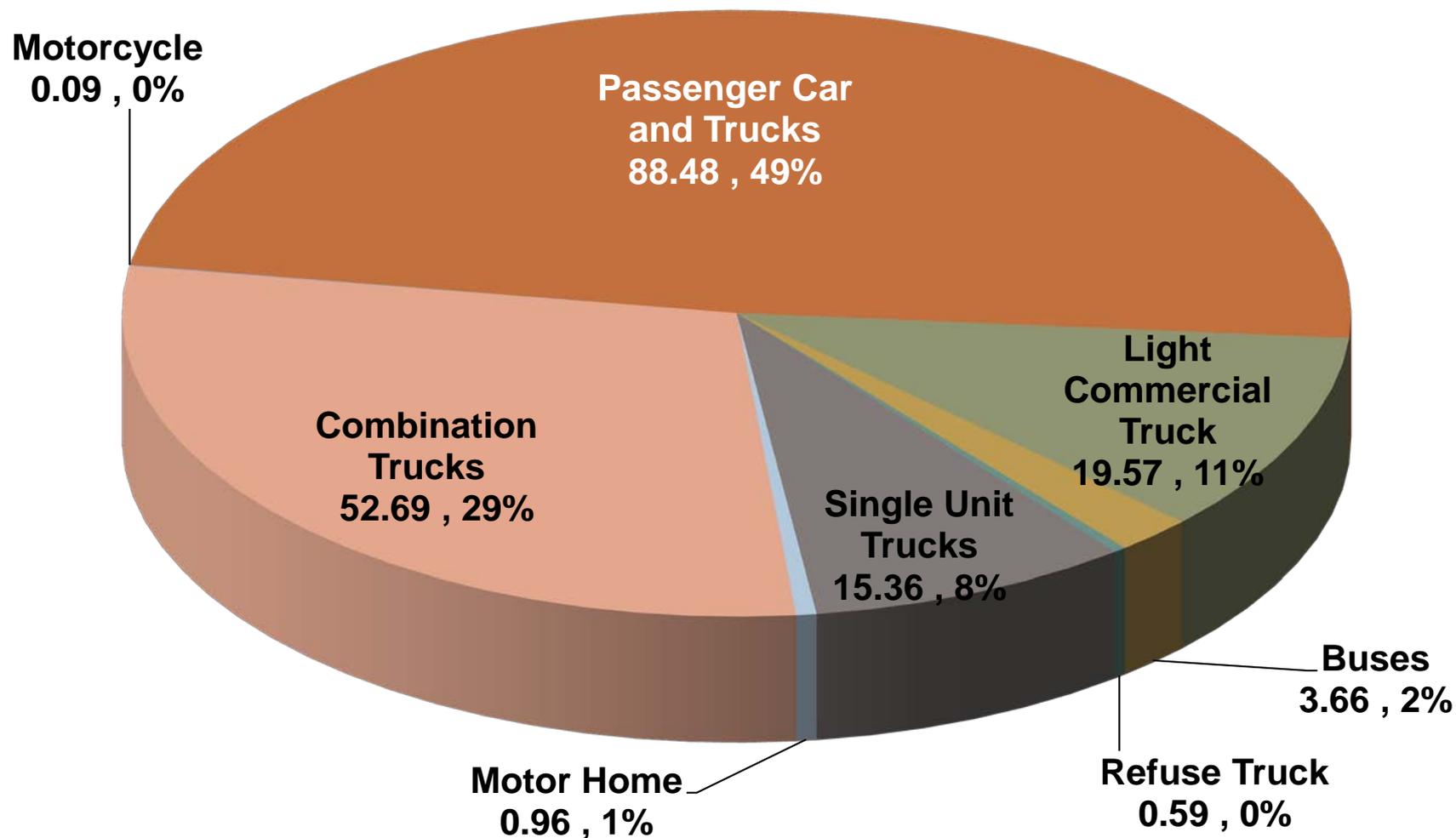
*Source: TCEQ



DFW NONATTAINMENT AREA

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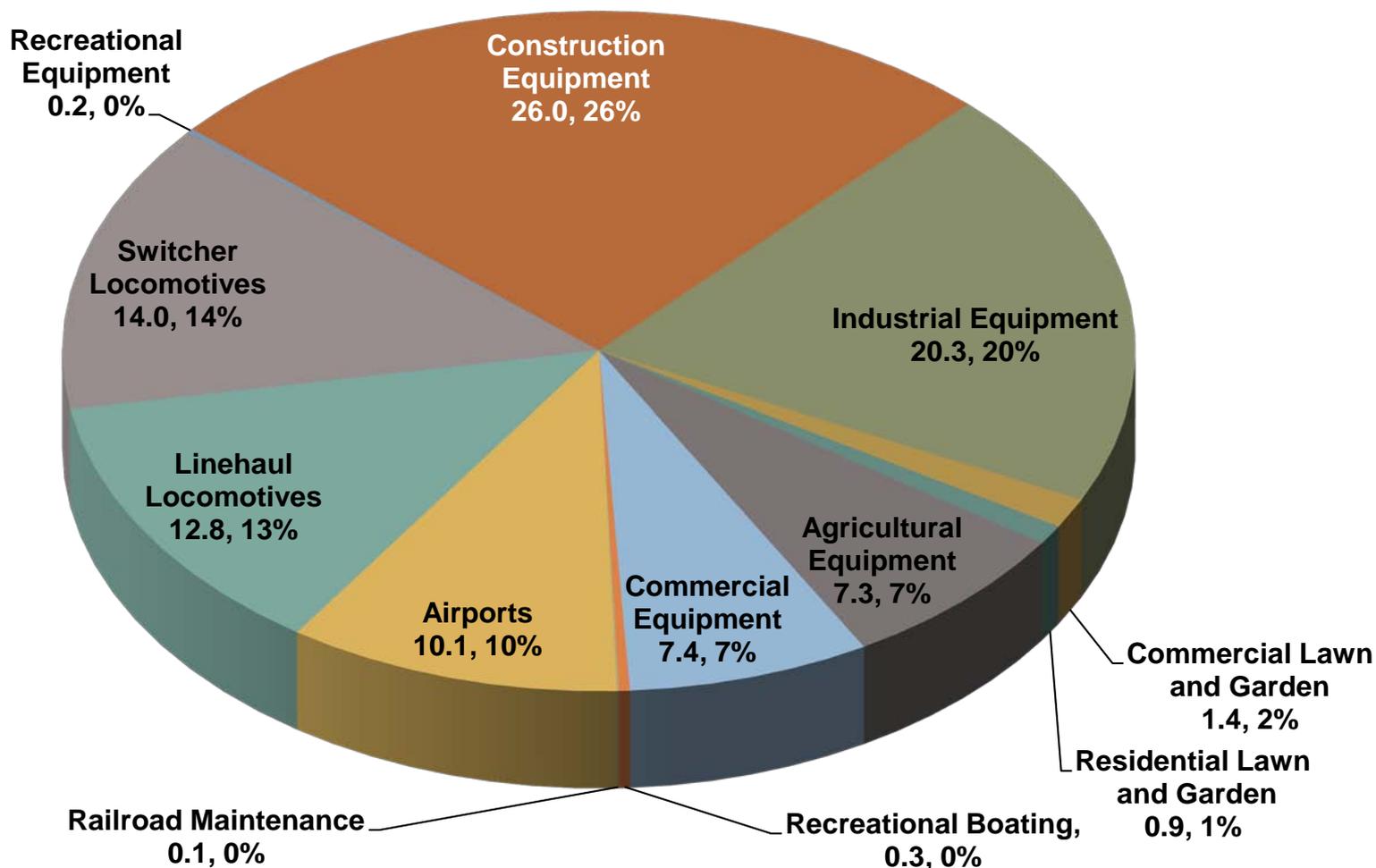
On-Road NO_x Emissions Sources (tpd)



DFW NONATTAINMENT AREA

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Non-Road NO_x Emissions (tpd)





What Can I Do?

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

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

Air Quality Programs

Vehicle Repair & Replacement Assistance Program

Helps Low to Middle Income Residents Repair or Replace
Vehicles That Fail an Inspection or Are \geq 10 Years Old

Funded by Inspection Fees Collected & Distributed by TCEQ

Up to \$600 for Emissions Repairs

Up to \$3,500 for Vehicle Replacement

Overall Program Success in North Central Texas

Since Inception of the Program in October 2002:

Replaced Over 25,000 Passenger Vehicles

Repaired Over 23,000 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

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 16 of the 17 Nonattainment Counties

Contains Registration Records for all Texas Counties Currently Utilized by 3,564 Officers and 105 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



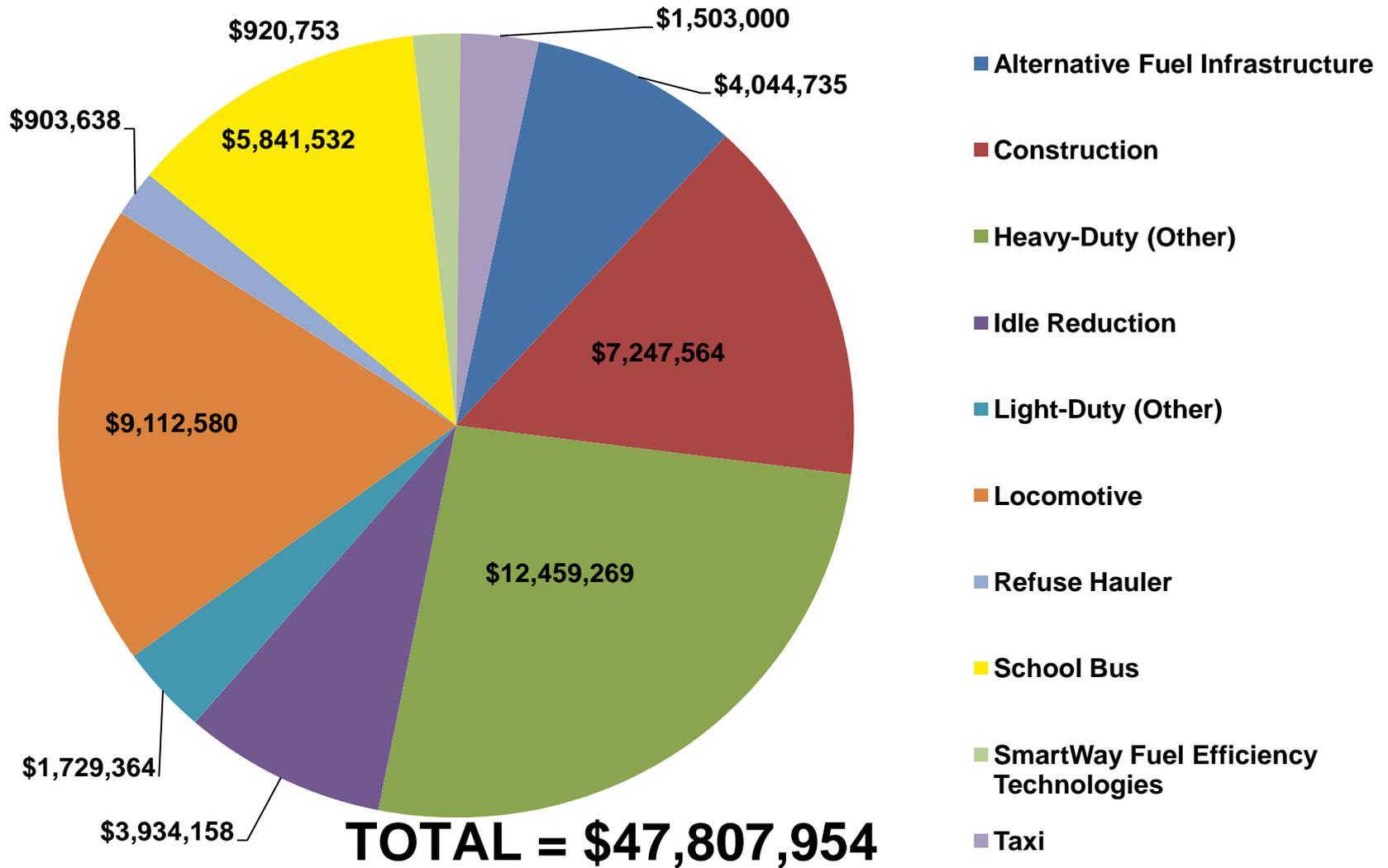
Texas Emissions Reduction Plan Partnership Program

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 when the vehicle is not in motion.

Applicable:

April 1 through October 31 of Each Year

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)



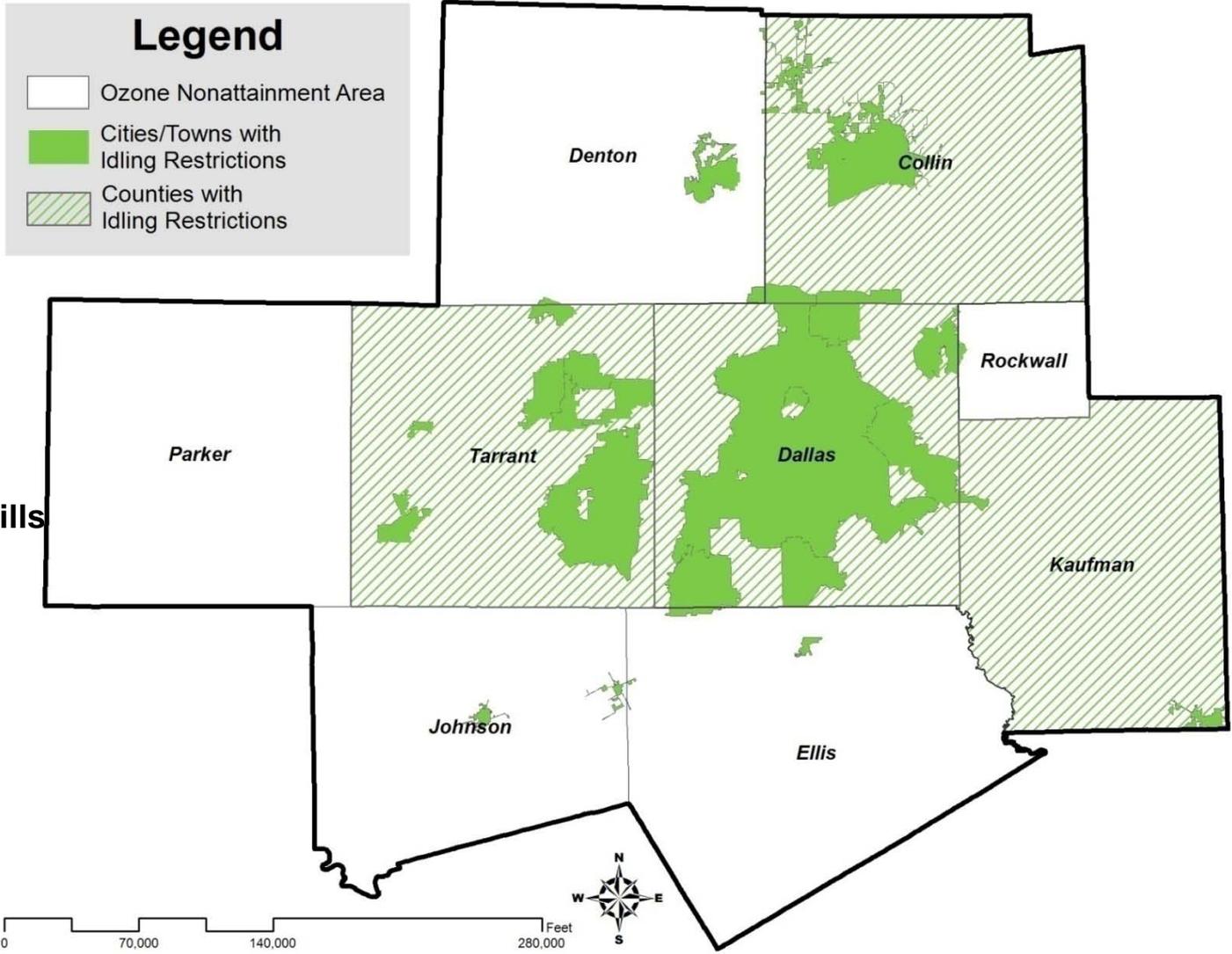
Contact Amanda Brimmer at 817-608-2354 or abrimmer@nctcog.org
www.EngineOffNorthTexas.org

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@nctcoq.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



try parking it

1 | 2 | 3 | 4 | 5 | 6 | 7 | < | > | Try Parking It

Home > Commuter Home
Hello Joe [Logout]

- 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

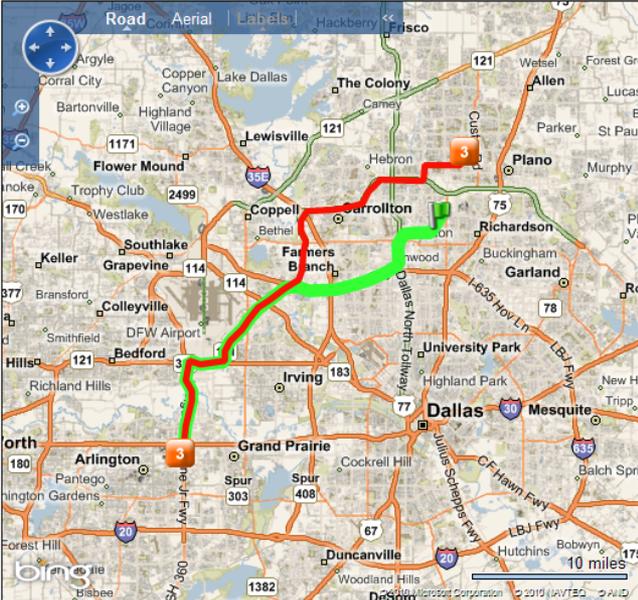
My Rideshare Matches

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

Voluntary Effort and Creative Platform to Develop a Regional Voice to Generate Public Awareness That Will Foster Behavioral Changes in the Community

All-Inclusive Branding Effort That Will Serve to Bridge All Air Quality Programs Into One Comprehensive and Versatile Initiative



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' Clean Air Action Day – July 7

Second Annual 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, Individuals, Businesses, Just for kids, Air Facts, Partner/Response, and Tools. The main content area is titled 'take action' and includes a 'save the date' graphic for July 7, 7 am to 7 pm. Below the graphic is a form titled 'Take Action - Choose Clean Air' with fields for Email Address and ZIP Code. A list of clean air actions is provided with checkboxes, including: 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 (SPORADIC), 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. A 'Submit' button is at the bottom of the form.

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 for more details

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



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 and Workshops
Monthly Electronic Newsletter
Outreach to Fleets and the General Public
PR for Fleets



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

Contact Information

Chris Klaus

Senior Program Manager

cklaus@nctcog.org

(817) 695-9286

www.nctcog.org/trans/air



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