

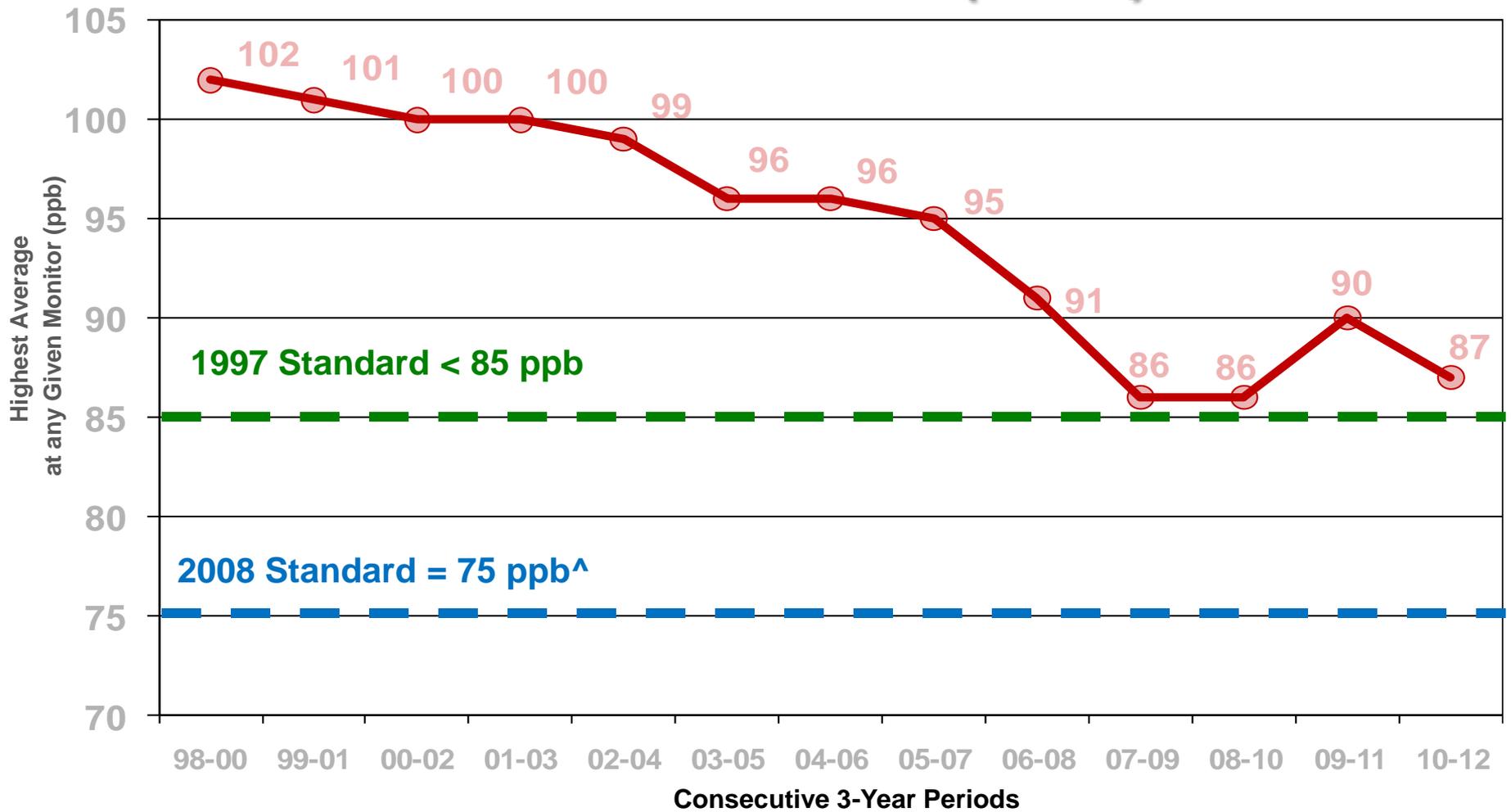
NORTH TEXAS IDLING RESTRICTIONS AND EMISSIONS ENFORCEMENT

**Safety Alliance Meeting
March 12, 2013**



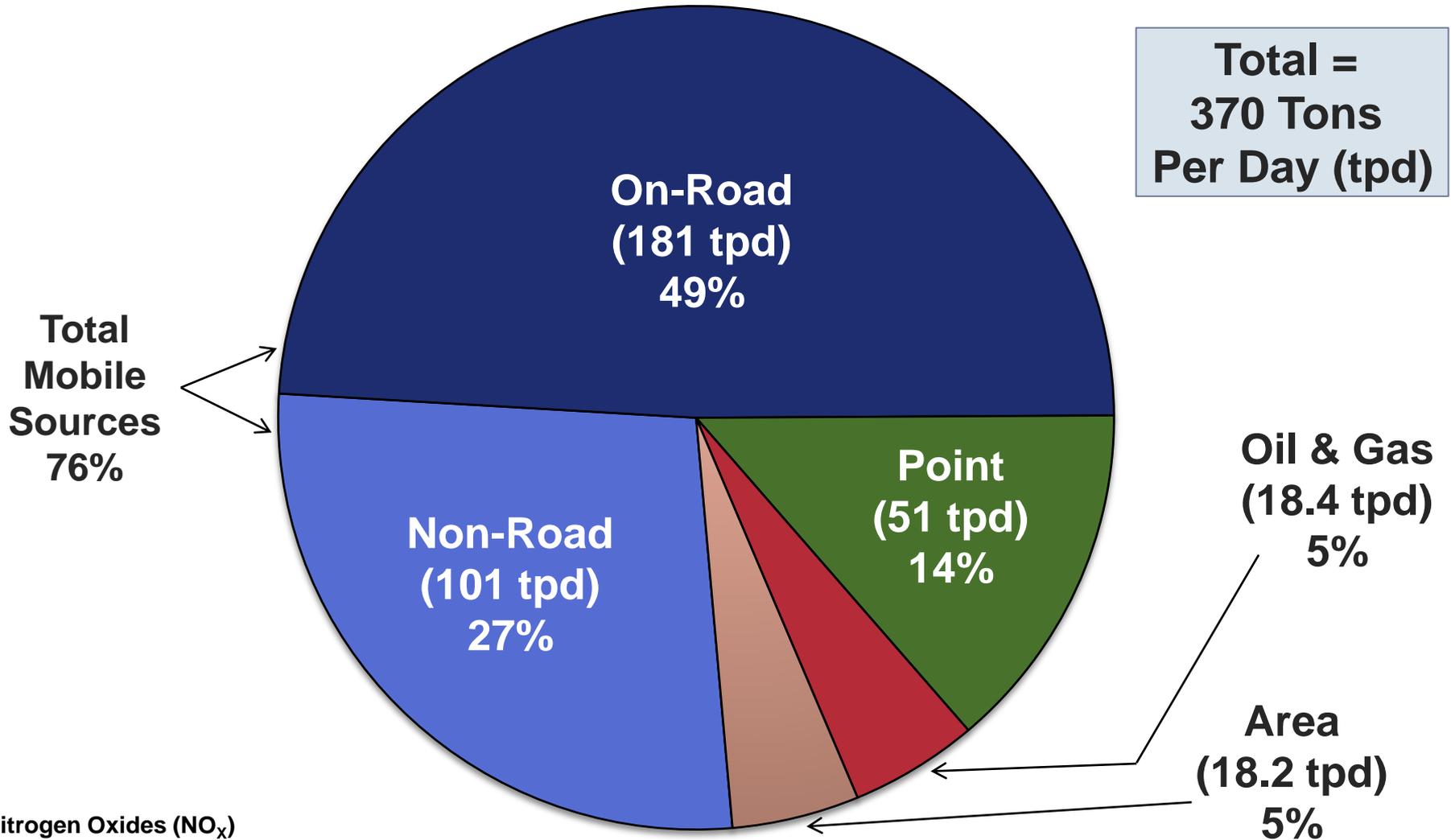
**Amanda Brimmer, Principal Transportation Planner
Air Quality Management and Operations
NCTCOG Transportation Department**

8-HOUR OZONE HISTORICAL TRENDS Dallas-Fort Worth (DFW)

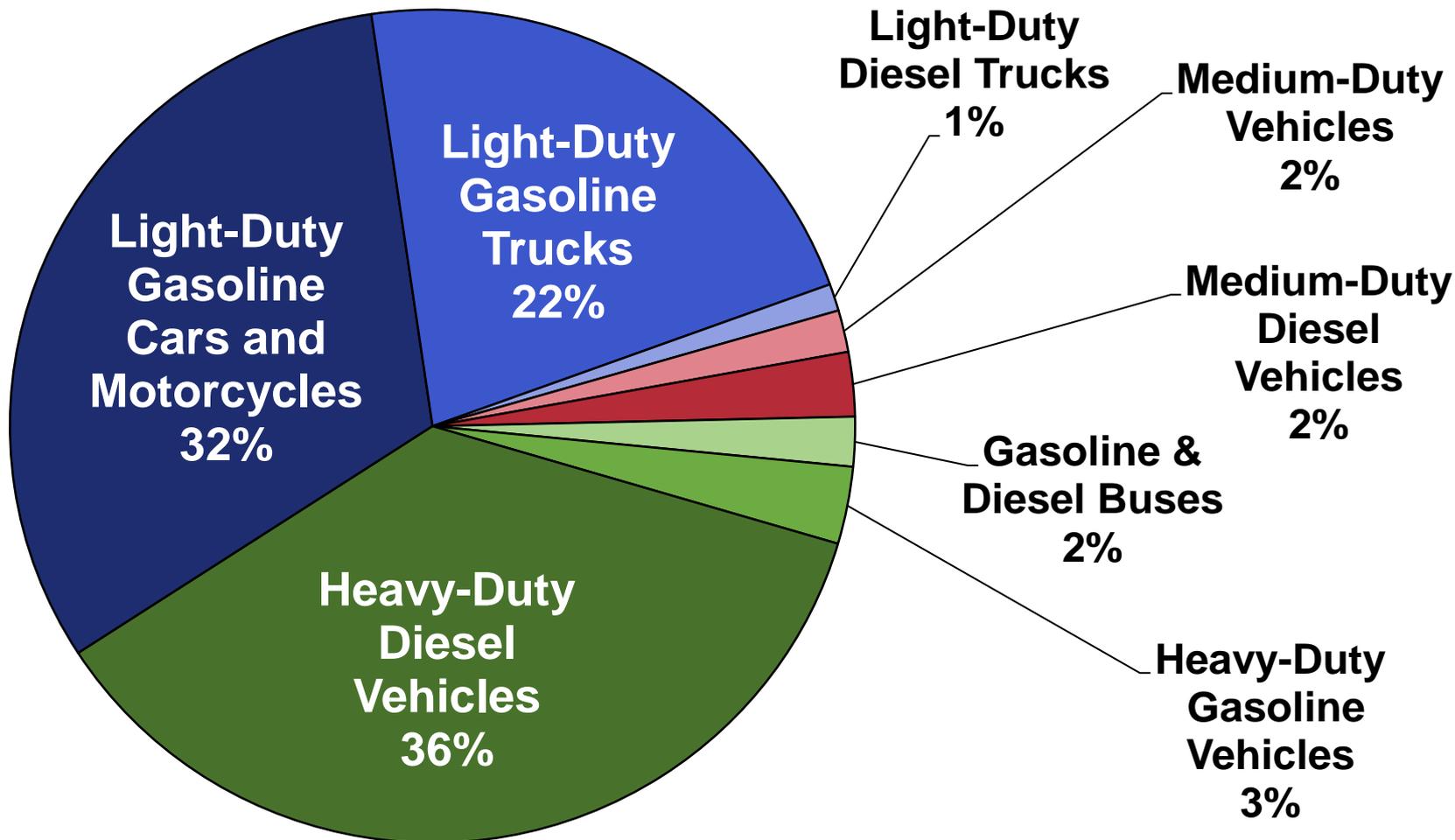


^ Attainment Goal - Attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is equal to or less than 75 ppb.

DFW NONATTAINMENT AREA 2012 NO_x Emissions Inventory



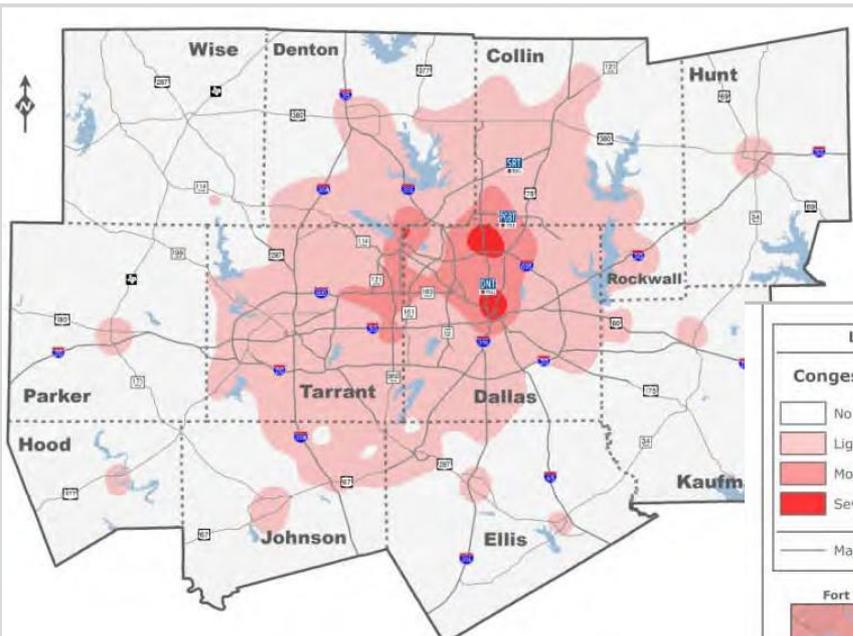
DFW NONATTAINMENT AREA 2012 On-Road NO_x Emissions Inventory



Light-Duty Vehicles ≤ 8,500 lbs gross vehicle weight rating (GVWR)
Medium-Duty Vehicles = 8,501 – 14,000 lbs GVWR
Heavy-Duty Vehicles ≥ 14,001 lbs GVWR

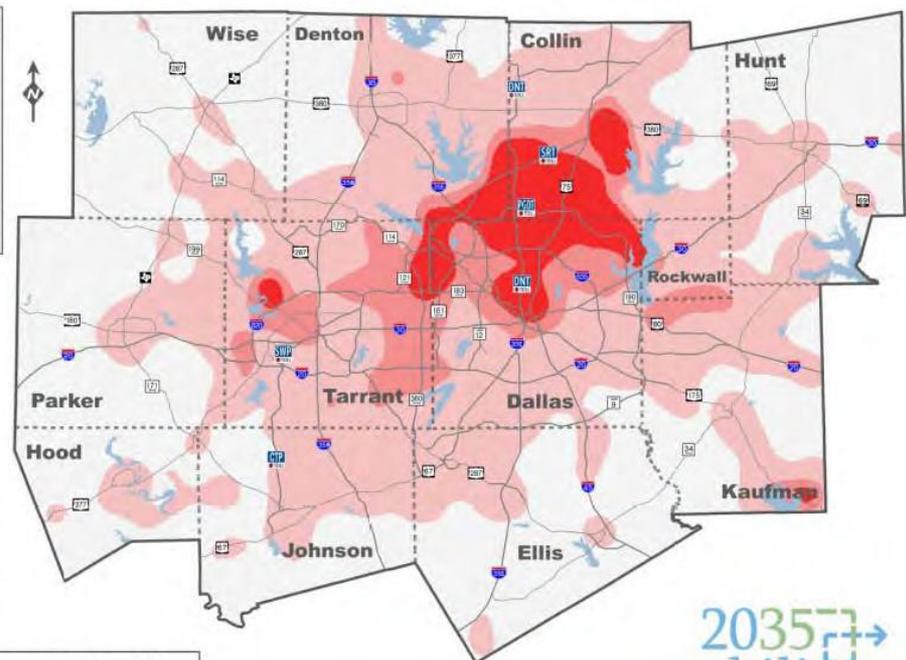
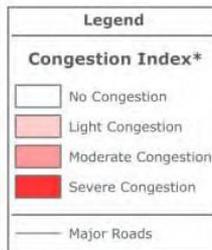
Source: Texas Commission on Environmental Quality

LEVELS OF TRAFFIC CONGESTION North Central Texas



2012

2035



Cost of Congestion: \$10.1 billion

*Congestion Index is based on a percent increase in travel time.



LOCALLY ENFORCED IDLING RESTRICTIONS

VEHICLE IDLING

Why is it of Concern?

Health

Exhaust Inhalation
Impacts of Poor Air Quality



Environment

200,000 Tons Nitrogen Oxides (NO_x) Each Year
11 Million Tons of Carbon Dioxide (CO₂) Each Year
Elevated Noise Levels

Energy Security

650,000 18-Wheelers → 685 Million Gallons of Fuel
6.7% of Annual Fuel Use for Medium-Duty Vehicles

Money

Zero Miles per Gallon; up to \$7,500/Year Spent on Fuel*
Decrease in Engine Life \ Increased Maintenance Costs

*Assumes \$4.09 per gallon Diesel (04/12); 1,830 hours per year idling

Source: Environmental Protection Agency, Department of Energy

LOCALLY ENFORCED IDLING RESTRICTIONS

Overview

Restriction

No gasoline or diesel vehicle over 14,000 lbs. gross vehicle weight rating (GVWR) can idle for more than 5 minutes when vehicle is not in motion; in effect year round

Exemptions



Vehicle Type	Operations	Location
With a Sleeper Berth and During a Government Mandated Rest Period	Power Source for Mechanical Operations	Not Within Two (2) Miles of a Truck Stop Offering External Heating/Air Conditioning
Airport Ground Support Equipment		
Military, Emergency, and Law Enforcement	Maintenance/Diagnostic Purposes	
Armored Vehicles	Windshield Defrosting	
Buses (30 Minute Maximum)	Traffic Congestion	
Certified Clean Idle Engines (2008+)		

LOCALLY ENFORCED IDLING RESTRICTIONS

North Central Texas Area

Cities

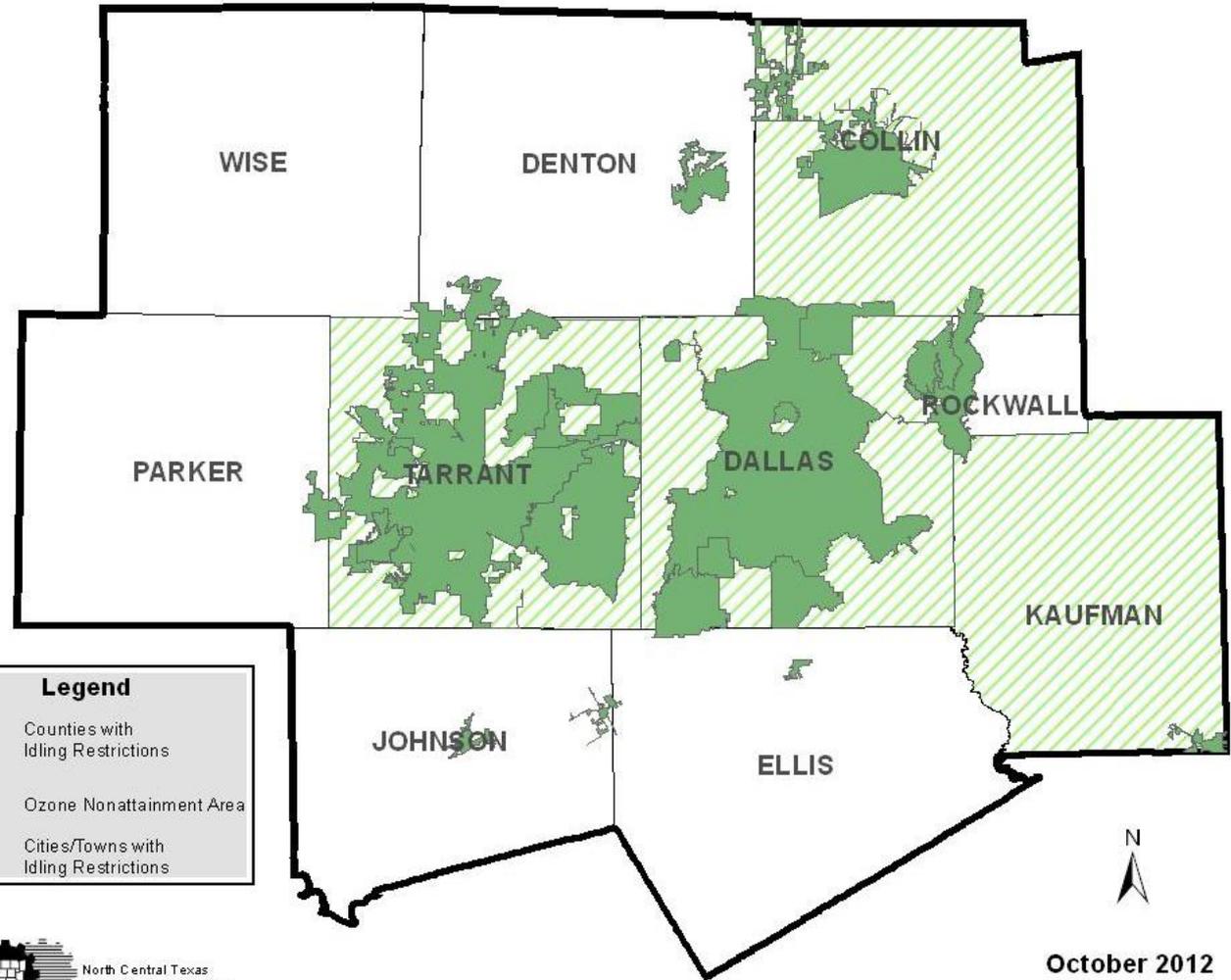
- Arlington
- Benbrook
- Cedar Hill
- Celina
- Colleyville
- Dallas
- Duncanville
- Eules
- Fort Worth
- Hurst
- Keene
- Lake Worth
- Lancaster
- Mabank
- McKinney
- Mesquite
- North Richland Hills
- Pecan Hill
- Richardson
- Rowlett
- University Park
- Venus

Towns

- Little Elm
- Westlake

Counties

- Collin
- Dallas
- Kaufman
- Tarrant



Legend

- Counties with Idling Restrictions
- Ozone Nonattainment Area
- Cities/Towns with Idling Restrictions



LOCALLY ENFORCED IDLING RESTRICTIONS

Applicability

Types of Vehicles >14,000 lbs GVWR Include:

Beverage Trucks	Garbage Trucks	Stake Trucks
Bucket Trucks	Heavy-Duty Utility Trucks	Step Vans
Delivery Trucks	Home Fuel Trucks	Tanker Trucks
Dump Trucks	Inner-City Tour Buses	Tow Trucks
Flat-Bed Trucks	Large Motor Homes	Tractor-Trailer Rigs
Fuel Trucks	Rack Trucks	Transit Buses
Furniture Trucks	School Buses	Utility Trucks
	Service Body Trucks	



TECHNOLOGY SOLUTIONS

On-Board and On-Site

Medium-Duty Vehicles

- **Power Take-Off Capabilities: Battery/Auxiliary Power Systems**
- **Heat: Air Heaters/Coolant Heaters/Energy Recovery Systems**

Heavy-Duty Vehicles

- **EPA-Verified Technologies for Class 8 Long-Haul Trucks**
- **Remote Plug-In Capabilities**

School Buses

- **EPA-Verified Technologies**

Hybrid and Electric Vehicles



Photo courtesy of IdleAire



Photo courtesy of Next Generation Power

LOCALLY ENFORCED IDLING RESTRICTIONS

Local Government Implementation

Initial Steps

- Adopt State Idling Limitation Rule
- Sign North Texas Memorandum of Agreement (MOA) with Texas Commission on Environmental Quality (TCEQ)
- Identify Personnel for Education and Enforcement Efforts

Education and Outreach

- Promote Awareness of Restrictions and Idle Reduction Technology Options

Available Outreach Items:

- Local Government Guide
- Anti-Idling Posters and Street Signs
- Driver Education Brochures
- Idling Complaint Hotline and Website

1-877-NTX-IDLE / www.EngineOffNorthTexas.org





**ON-ROAD MOBILE
EMISSIONS
ENFORCEMENT
PROGRAM**

REGIONAL EMISSIONS ENFORCEMENT PROGRAM

Overview

Reduce Number of Fictitious/Counterfeit Inspection Certificates by:

- **Conducting Covert Operations on State Inspection Stations**
- **Identifying Inspectors Performing Improper Inspections**
- **Prosecuting Offenders for Counterfeit Inspection Certificates**
- **Utilizing NCTCOG's Emissions Database (NED)**

Enforce Truck Lane Restrictions

Support Anti-Idling Restrictions

Enforce Smoking Vehicle Statute

Train Local Law Enforcement Officers

Encourage Collaboration Between

Counties to Increase Enforcement Efforts



REGIONAL EMISSIONS ENFORCEMENT PROGRAM

The Problem

Clean Scans

Using a Known Good Vehicle In Place of One that Won't Pass

Wrong Test Type Used

In Order to Circumvent Part of the Emissions Test

Inspector Integrity Lacking

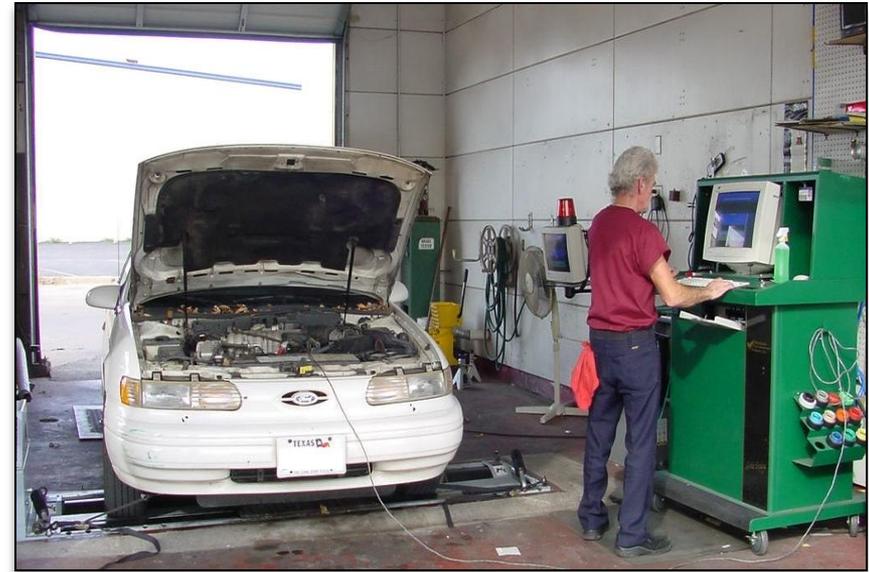
Sun Visor Inspections

Counterfeit/Fictitious Stickers

Multi-Million Dollar Problem

Engine Control Unit (ECU) Simulators Found

Hook Up Analyzer to Simulate Being Connected to a Vehicle



NCTCOG EMISSIONS DATABASE NED

Contains State Inspection
Records for all 17 Emissions
Testing Counties, Beginning
May 1, 2002

Contains Over 70 Million Records
Updated Weekly

Internet Based, Password
Protected, and Available to Law
Enforcement Agencies 24/7 with
Over 7,700 Users

TEXAS VEHICLE INSPECTION REPORT

NCTCOG Emissions Database

Vehicle Identification

Start Test Date/Time: 17-FEB-2010 01:23 PM
End Test Date/Time: 17-FEB-2010 01:38 PM
Emissions Test Type: A TSI (2-Speed Idle)
Inspection Type: (A) Emission & Safety Test

Station Identification

Station Name: BONNIE VIEW MOBIL
Station Number: 1P17445
Station Address: 2919 E ILLINOIS
Station City: Dallas
Station State: TX
Station Zip: 75216
Inspector First Name: RASHARD
Inspector Last Name: RENDON
Inspector Number: WW510331
Form VI 30A Issued (Green Sheet)
Form VI 30A Number: 15-311

Vehicle Information

Test Type/Emissions: 0926 Initial Emissions Test
Test Type/Safety: Initial Safety Test
Software Version: 104103485
Vehicle System Number: FTK167
License Plate Type: Texas Plate
License Plate Number: JTL847E48010366

Vehicle VIN, Flag, County Where Tested

Vehicle VIN: Dallas
County Where Tested: LE23
Vehicle Make: GS300
Vehicle Model: GS300
Vehicle Year: 1995
Vehicle Type: Passenger Car/Station Wagon
Engine Size (cubic inches): 3000
Transmission/GVW/Drive Type: S / Conventional Automatic / 4800 / Light
Cylinders/Exhaust Type: 255324 / Gas
Carburetor/Fuel Type: No
Dual Exhaust: Fuel Injection
Axe Type: Yes, AWD-4X
Test Weight (lbs):
Vehicle 80 inches Wide

Inspection & Repair Fees

Safety Inspection Fee	\$12.75
Emissions Inspection Fee	\$27.00
Repair Costs at Station	\$0.00
REPAIR Repair Costs	\$0.00
Non REPAIR Repair Costs	\$0.00
Self-Performed Repair Costs	\$0.00
System Repaired	\$0.00
Repairs Performed By	
Overall Inspection Costs	
Prior to test Pre-Tuning done	
Overall Repair Costs	

Weather

Relative Humidity: 5015 Humid
Ambient Dry Bulb: 2525 Humid
Barometric Pressure: (inHg)

Test Equipment

Analyzer Number: 0
Dyno Set Horsepower: 5015
Dyno Set Horsepower: 2525
Acceleration Violations during 5015: 0
Acceleration Violations during 2525: 0

Low Speed Emission Results (15mph)

Standard	220	Current Reading	20	Result	Pass
HC (ppm)	20	Gas Cap Testable: Yes	12.3	Result	Pass
CO (%)	0	2nd Gas Cap Testable:	3.6	Result	Pass
CO2 (%)	0				
Gas Cap	0				
2nd Gas	0				

Overall Result: PASS

Certificate Number Issued: M02825238
Waiver Number:
Records last updated: 02/21/2010
Not an Official State Document

DISCLAIMER

The North Central Texas Council of Governments (NCTCOG) maintains this Emissions Data Web site to enhance access to Texas Emissions Data information. This site is continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantee. The North Central Texas Council of Governments makes no warranty, express or implied, including warranties of fitness for a particular purpose. Use of the information is the sole responsibility of the user. The material on this site is compiled from data provided by The Texas Commission on Environmental Quality (TCEQ) from The Texas Information Management System (TIMS) database and is not for public use or dissemination. We do not control or guarantee the accuracy, relevance, timeliness or completeness of any outside information.

802
Counterfeits
\$48,120



Estimated Emissions Reductions:

NOx = 3.44 TPD
VOC = 2.15 TPD

VOC= Volatile Organic Compounds

Source: Dallas County Task Force

SPOT THE FAKE

SPOT THE FAKE



Hand-drawn
and Laminated



SPOT THE FAKE



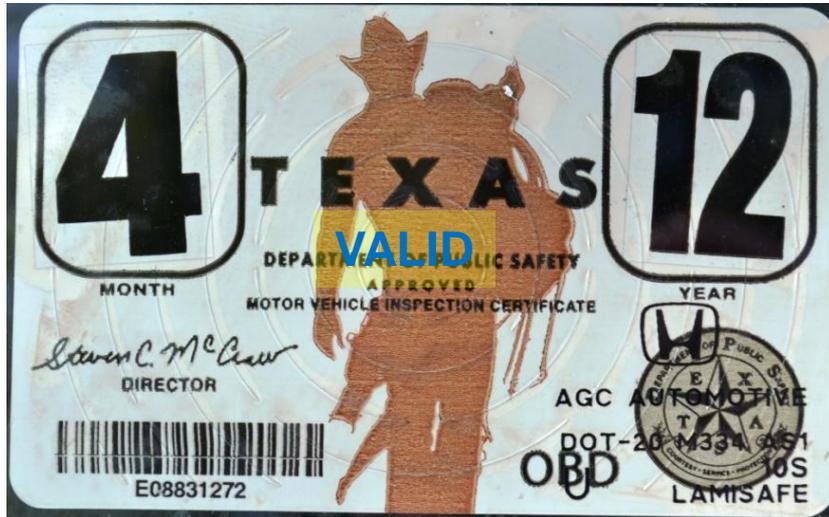
Incorrect Font

Incorrect Color Green

Alpha Character and Number
Should Be Same Size



SPOT THE FAKE



Faded Colors
Saddle Straps Crossed
Incorrect Alpha Character

Valid, But Stolen From
Another Vehicle

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www.nctcog.org/REEP