

AIR QUALITY IN NORTH CENTRAL TEXAS

Keep Fort Worth Beautiful
October 16, 2013

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North Central Texas Council of Governments



AIR QUALITY IN NORTH CENTRAL TEXAS

Outline

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

Air Quality Background

Air Quality Initiatives: On-Road

Polices

Education

Enforcement

Technology

Overview of NCTCOG

OVERVIEW OF NCTCOG

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

Air Quality Background

NATIONAL AMBIENT AIR QUALITY STANDARDS

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.



FEDERAL OZONE STANDARDS

DFW Nonattainment Area Timeline

1-Hour Ozone Standard: 125 ppb
4 North Texas Counties Designated

1997 8-Hour Ozone Standard: < 85 ppb

9 North Texas Counties Designated
Deadline to Reach Attainment: June 2010

2008 8-Hour Ozone Standard: ≤ 75 ppb

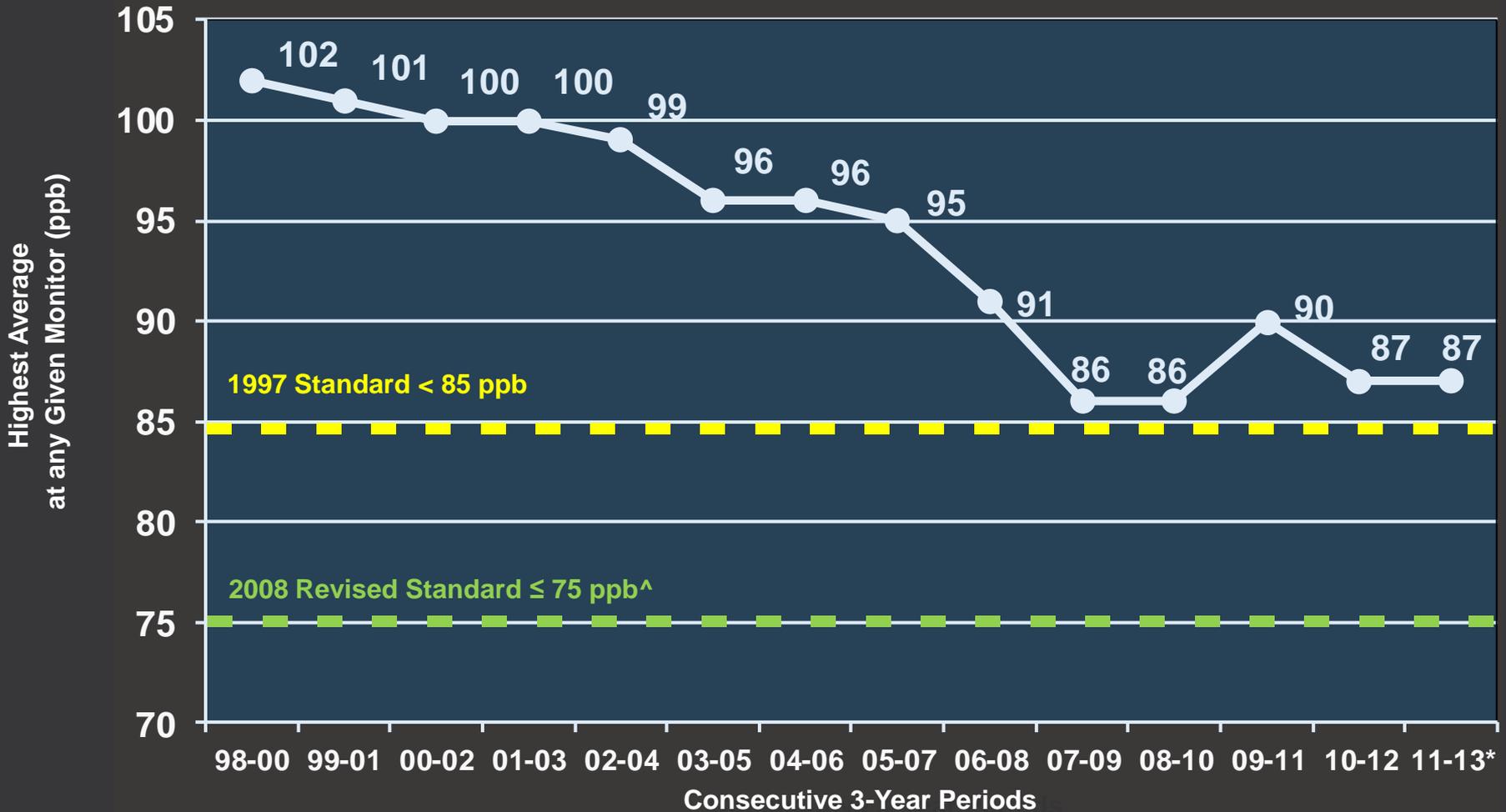
Designations Under New Standard:
May 1, 2012

Deadline to Reach Attainment: December 2018

ppb = parts per billion

8-HOUR OZONE STANDARD

DFW Historic Trends



[^]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).

DFW NONATTAINMENT AREA

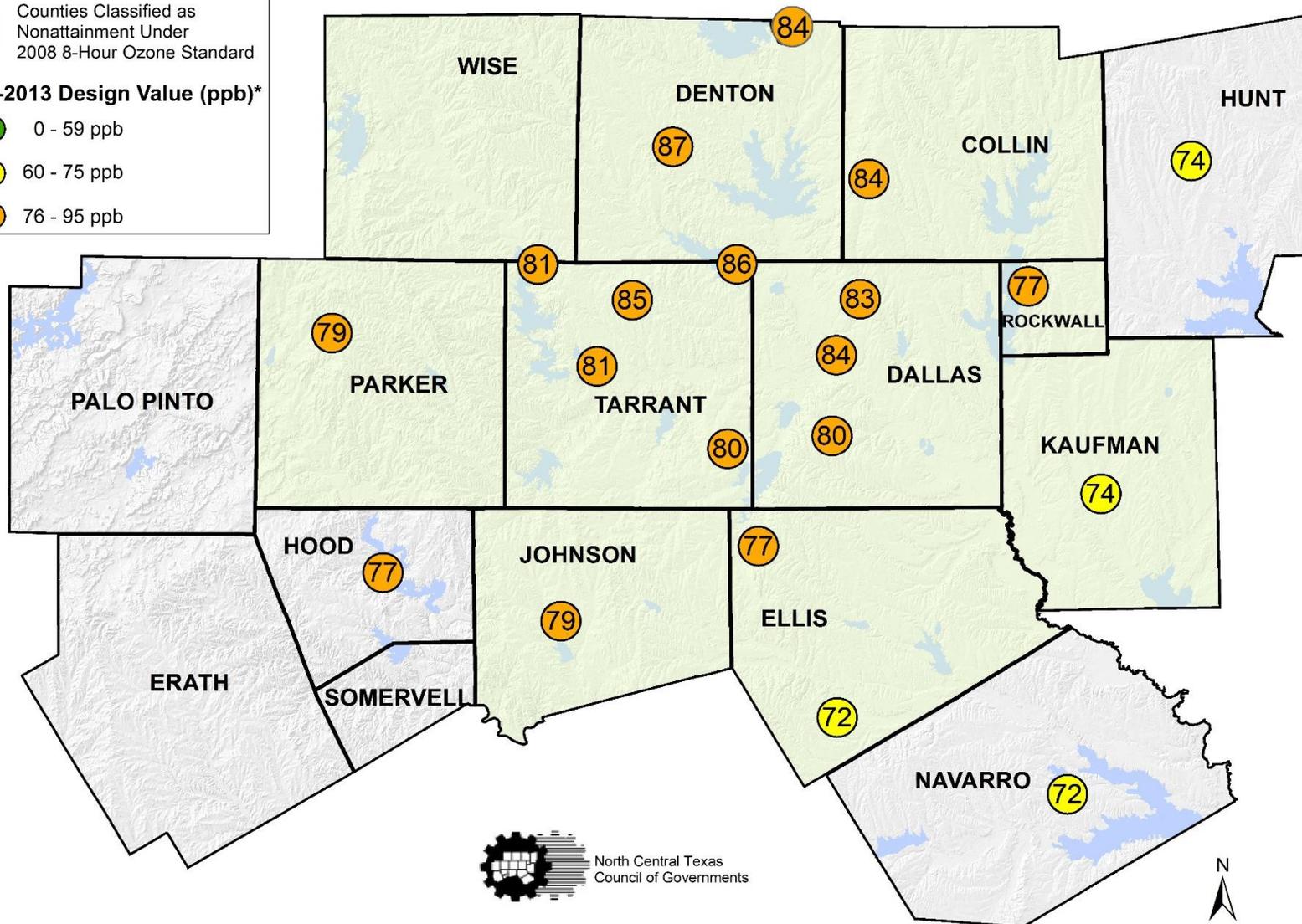
2008 8-Hour Ozone Standard Design Values

Legend

Counties Classified as Nonattainment Under 2008 8-Hour Ozone Standard

2010-2013 Design Value (ppb)*

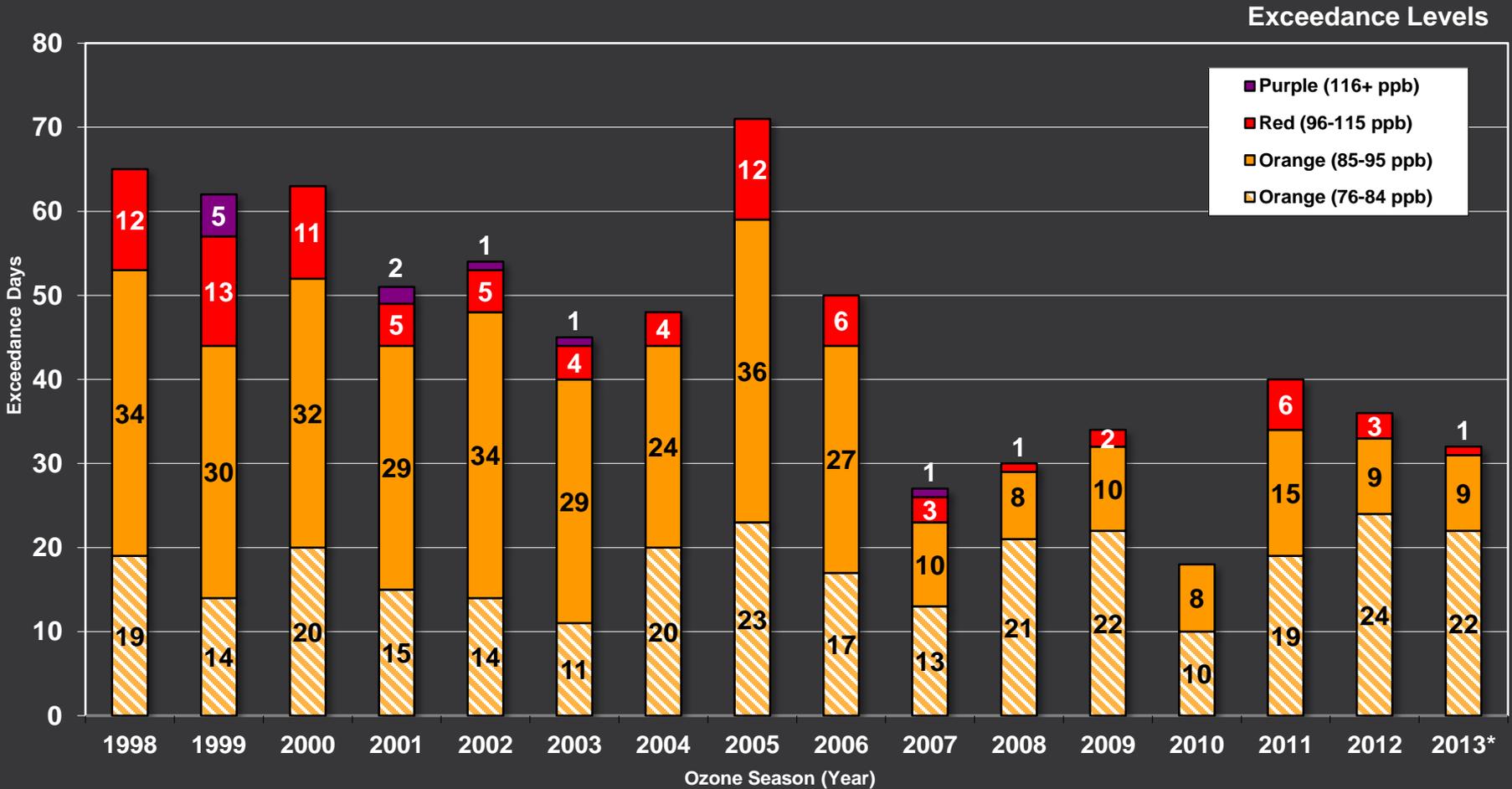
- 0 - 59 ppb
- 60 - 75 ppb
- 76 - 95 ppb



* Not a full year of data, current as of October 15, 2013.

2013 OZONE SEASON

8-Hour Ozone Exceedance Days



Exceedance Level indicates daily maximum 8-hour average ozone concentration. Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the revised ozone standard of 75 ppb.

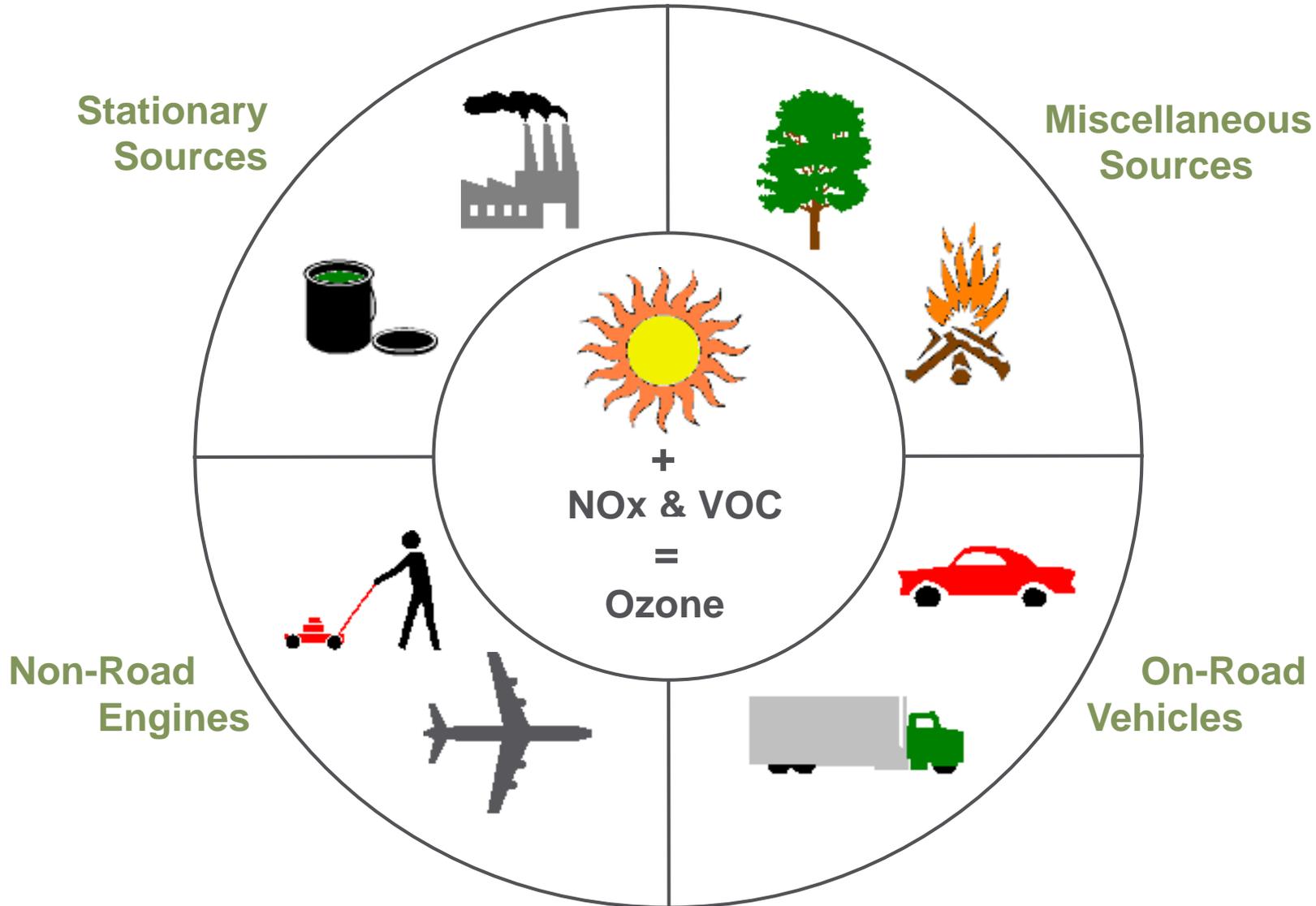
* Not a full year of data, current as of 10/15/2013

Source: TCEQ
http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl
 ppb = parts per billion

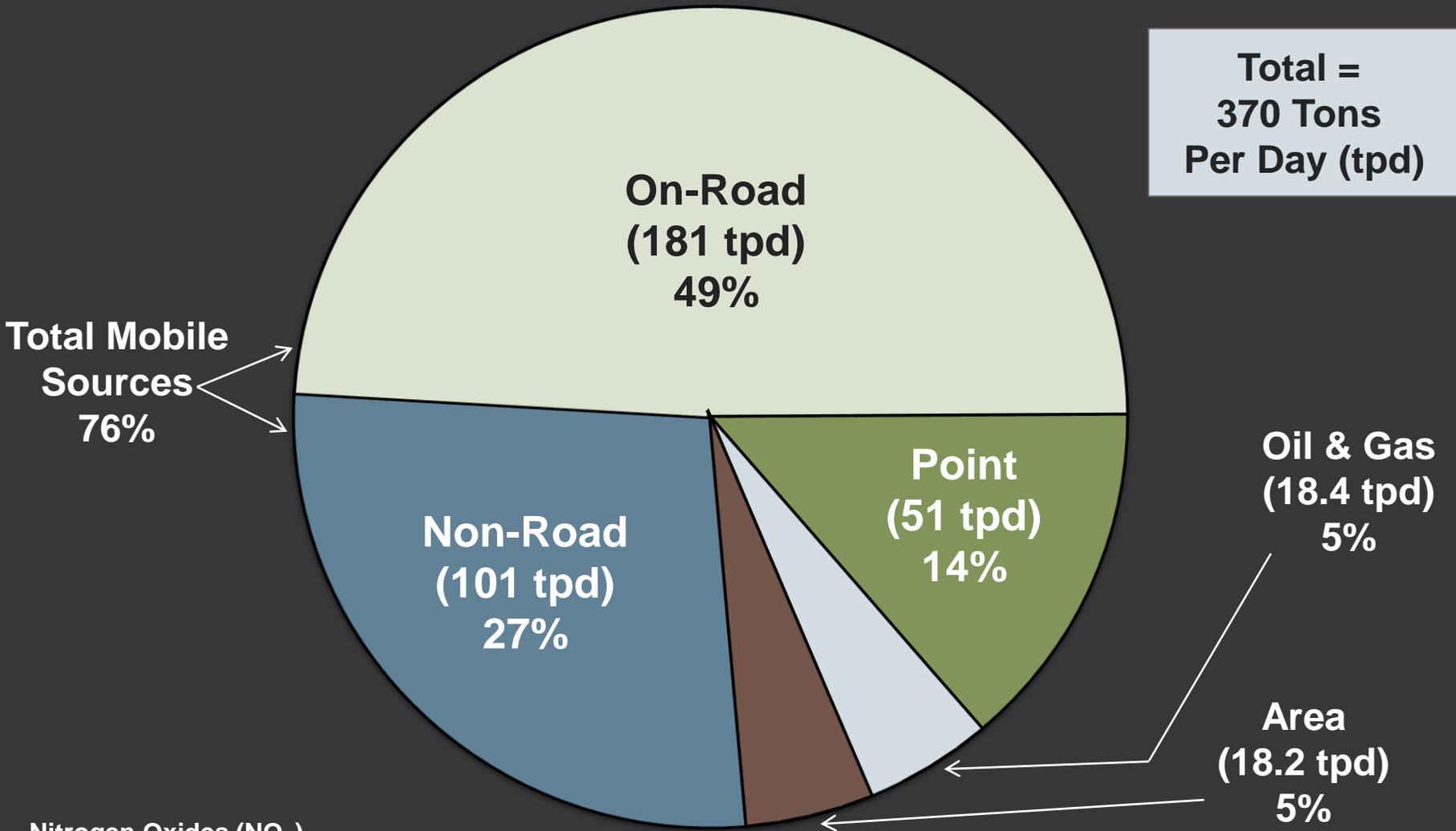
 = Additional level orange exceedance days under the revised standard that were not exceedances under the previous 84 ppb standard. (AQI level orange = 76-95 ppb)

GROUND LEVEL OZONE

Where It Comes From



DFW NONATTAINMENT AREA 2012 NO_x Emissions Inventory



Nitrogen Oxides (NO_x)

Source: Texas Commission on Environmental Quality (TCEQ)

Air Quality Initiatives: On-Road

Policies

Education

Enforcement

Technology

EXISTING CONTROL STRATEGY EXAMPLES

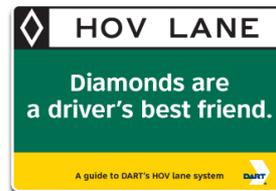
On-Road Sources



northcentral.texas.clean.school.bus.program



tryparkingit.com



Air Quality Initiatives: Policies

AIR QUALITY POLICIES

Locally Enforced Idling Restrictions (LEIR)

Initial Steps

Adopt State Idling Limitation Rule

Sign North Texas Memorandum of Agreement with the Texas Commission on Environmental Quality

Identify Personnel for Education and Enforcement Efforts

Education and Outreach

Identify Idling Hotspots (i.e. Warehousing Districts, Gas Drilling Sites, etc.)

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



AIR QUALITY POLICIES

Clean Fleet Vehicle Policy (CFVP)

Addresses acquisition, operations, maintenance, and idling.

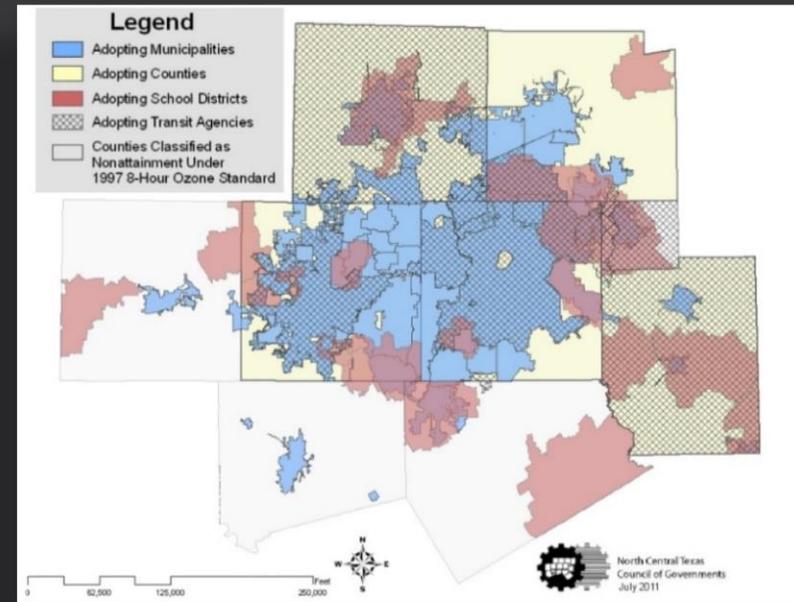
Adopted by 104 entities including cities, counties, ISDs, and special districts.

Currently revising to:

Remain relevant and effective

Reflect impact of technological advances and recent regulations

Capture comprehensive goals of DFW Clean Cities Coalition



AIR QUALITY POLICIES

Policy Supporting School Districts

Adopted by Regional Transportation Council (RTC) August 2013.

Establishes candidate areas of interest between school districts, local governments, and the RTC.

Includes various emissions-related topics:

Clean Fleet Vehicle Policy

Idle-Reduction programs

Vehicle technology improvements

Energy efficiency initiatives

Innovative contracting initiatives

Routing initiatives

School siting strategies

Safe routes to schools and related efforts



Air Quality Initiatives: Education

AIR QUALITY EDUCATION

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)



www.nctcog.org/cleancities

AIR QUALITY EDUCATION

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 impact our health and the environment.



www.airnorthtexas.org

UNDERSTANDING THE OZONE SEASON

March 1–October 31

Learn the Air Quality Index

Listen/Watch for Air Pollution
Action Day Notices

Sign up for Air Pollution
Action Day emails at
www.airnorthtexas.org



AIR QUALITY INDEX

Air Quality Index (AQI) Values	Levels of Health Concern
0 to 50	Good
51-100	Moderate
101-150	Unhealthy for Sensitive Groups
151-200	Unhealthy
201-300	Very Unhealthy
301 to 500	Hazardous

AIR QUALITY EDUCATION

School Flag Program

Creates public awareness of outdoor air quality conditions.

Uses colored flags based on U.S. EPA's Air Quality Index (AQI) to notify teachers, coaches, students, and others about outdoor air quality conditions.

Contact:

Anne Crowther, North Texas Asthma Consortium
anne.crowther@childrens.com

Donna Rogers, US EPA
rogers.donna@epa.gov



www.airnow.gov/schoolflag

AIR QUALITY EDUCATION

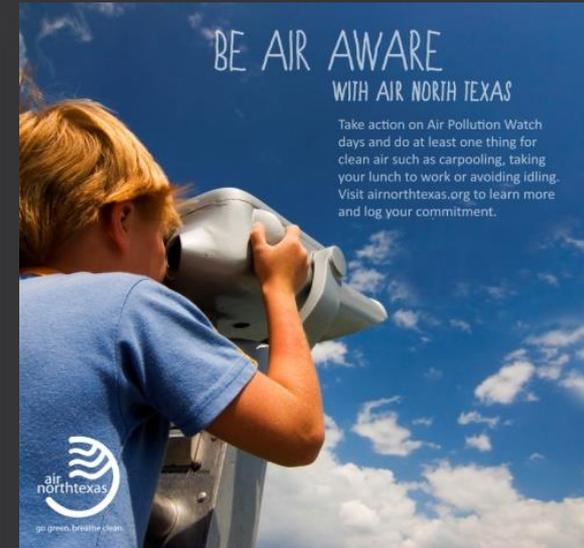
Be Air Aware with Air North Texas

Air North Texas Ozone Season Campaign Theme

Encourage North Texans to be aware of air pollution action days.

Website for businesses, local governments, and general public to make commitments for actions they will take on air pollution action days.

Campaign stresses health message on air pollution warning days.



www.airnorthtexas.org/beairaware.asp

AIR QUALITY EDUCATION

Car Care Clinics October 14-26

Fall Car Care Month

A national effort aimed at providing consumers with information on the importance of vehicle care and maintenance.

Proper Care Will:

Prolong the life of the vehicle

Ensure the vehicle is getting optimum gas mileage and emitting minimal emissions

Confirm safety items function properly, such as horn, lights, brakes, etc.



Local: www.nctcog.org/CarCareClinics

National: www.carcare.org/Car-Care-Events

2013 FALL CAR CARE CLINICS

25 Participating Repair Facilities in North Texas

Fall Car Care Clinics

- Adam's Auto Services
- Castrol Express Car Services
- Christian Brothers Automotive - Burle
- Christian Brothers Automotive - Arlin
- City Garage - Arlington
- City Garage - Arlington
- City Garage - Dallas
- City Garage - Dallas
- City Garage - Fort Worth
- City Garage - Fort Worth
- City Garage - Garland
- City Garage - Grand Prairie
- City Garage - Plano
- D & L Auto Shop
- J's Automotive
- Jackson Automotive Spec Inc
- Kwik Kar
- Kwik Kar - Bedford Auto Repair / Oil C
- Parker County Automotive**
- Rick and Ray's Auto Plaza Center
- Rick's Automotive & Wrecker Service
- Sav-Mor Auto Repair
- Starkey's Service Center
- The Auto Shop
- Westerly Tire & Automotive

Parker County Automotive

Thursday, October 17, 2013

Details from Google Maps
2404 Fort Worth Highway, Weatherford, TX
www.parkercountyautorepair.com
(817) 596-7998
4.6 ★★★★★ Google+ page

Base map

Google Maps Engine

AIR QUALITY EDUCATION

Regional Rideshare Program

What

Ride-matching website for the Dallas-Fort Worth region
Combined vanpool/carpool data from DART, The T, and DCTA

Features

Utilize interactive map
Set commute preference
Log alternative commutes

How

Create an Account at www.tryparkingit.com

walk . bike . carpool . transit . telecommute . flex schedule . vanpool . bike . carpool . transit . telecommute
flex schedule . vanpool . walk . carpool . transit . telecommute . flex schedule . vanpool . bike . walk . transit
telecommute . carpool . flex schedule . vanpool . walk . bike . transit . telecommute . flex schedule
vanpool . walk . transit . bike . telecommute . carpool . flex schedule . telecommute . bike . transit . vanpool
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bike . telecommute . carpool . walk . flex schedule . vanpool . transit . telecommute . flex schedule . carpool
transit . walk . vanpool . bike . telecommute . carpool . flex schedule . transit . vanpool . bike . telecommute

www.tryparkingit.com

Air Quality Initiatives: Enforcement

VEHICLE ENFORCEMENT

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

AIR QUALITY POLICIES

Locally Enforced Idling Restrictions (LEIR)

Restrictions

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+)		



VEHICLE ENFORCEMENT

Regional Smoking Vehicle Program (RSVP)

Goal

Advise owners their vehicles may be creating excessive smoke and emitting harmful pollutants.

Reporting

www.smokingvehicle.net

817-704-2522

#SMOKE (#76653) – cell only



Statewide Coordination

NCTCOG administers program for North Central Texas.

TCEQ administers program for remainder of the State.

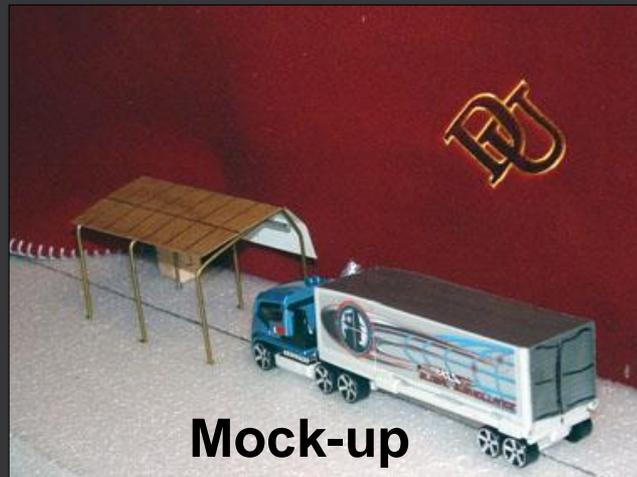
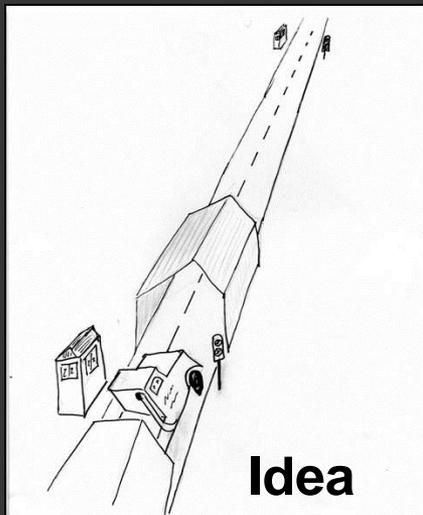
VEHICLE ENFORCEMENT

Diesel Inspection and Maintenance (I/M) Pilot Program

Purpose

To study the potential benefits of including diesel vehicles in the State inspection and maintenance (I/M) program.

To test the Streamlined Heavy-Duty Emissions Determination (SHED) prototype for potential use future I/M programs.



Results of study to be released in late 2013/early 2014.

Air Quality Initiatives: Technology

FUNDING AND OUTREACH PROGRAMS

Technology

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 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.terpgrants.org



FUNDING AND OUTREACH PROGRAMS

AirCheckTexas Drive a Clean Machine

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 by approximately 1.1 tons per day.



Contact Information

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