

AIR QUALITY IN NORTH CENTRAL TEXAS

Handley Neighborhood Association
May 12, 2014

Jason Brown, Air Quality Operations Manager
North Central Texas Council of Governments



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 (MPO) Designation

12-County Metropolitan Planning Area

10-County Ozone Nonattainment Area

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

NATIONAL AMBIENT AIR QUALITY STANDARDS

Criteria Pollutants

Carbon Monoxide (CO)

Lead (Pb)

Nitrogen Oxides (NO_x)

Ozone (O₃) ←

Particulate Matter (PM₁₀ & PM_{2.5})

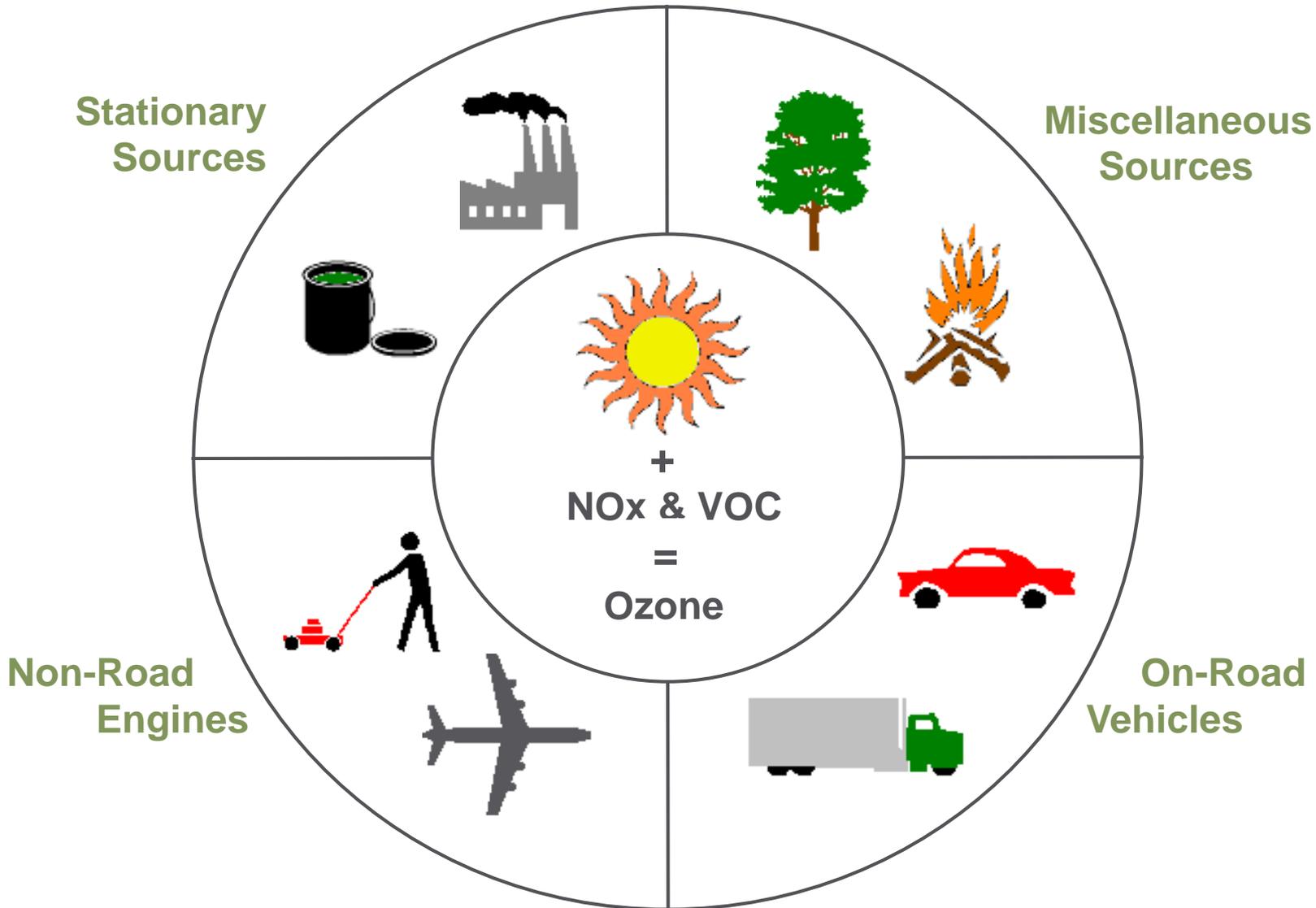
Sulfur Dioxide (SO₂)

Future ? CO₂, NO₂, Etc.



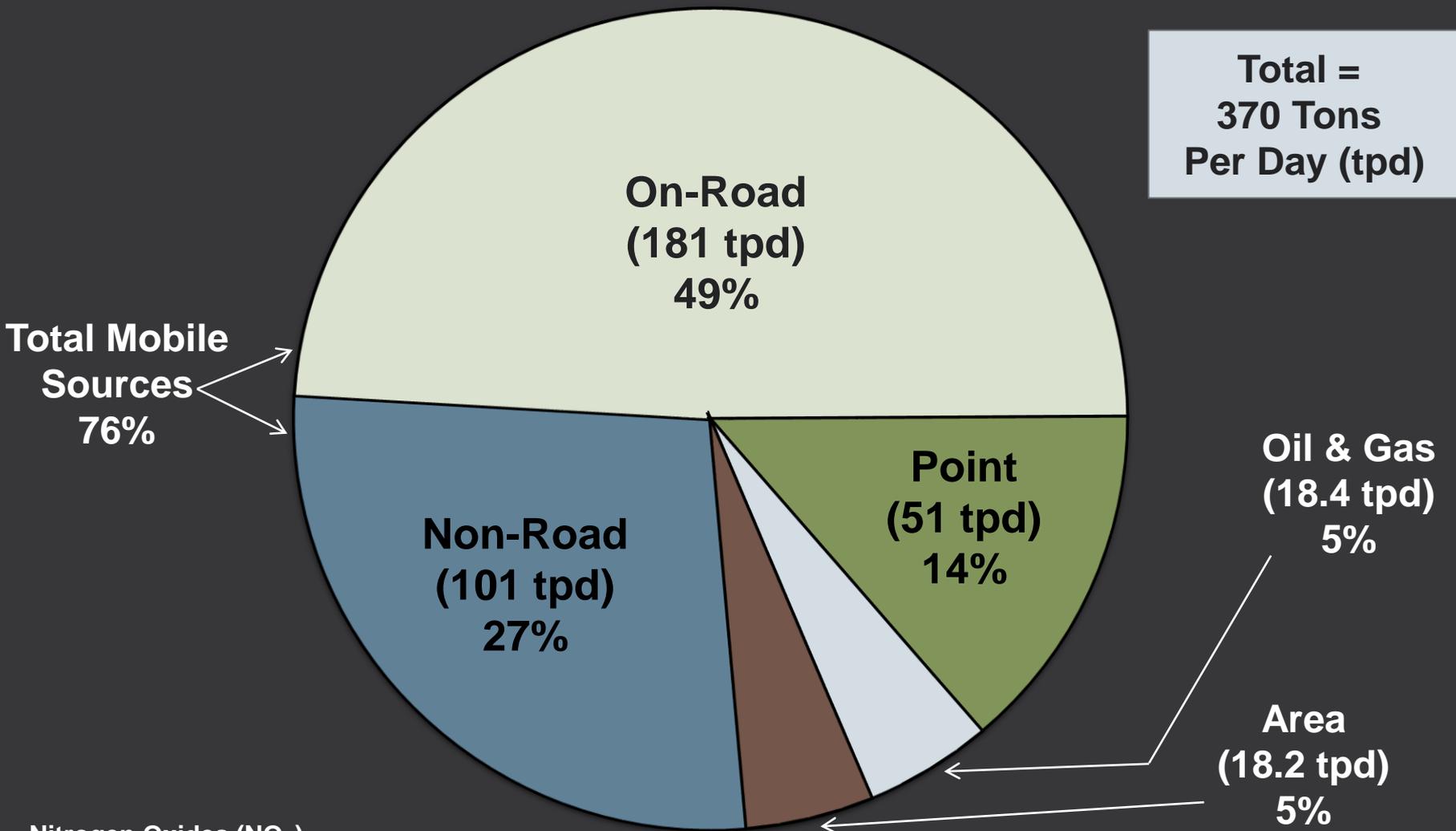
GROUND LEVEL OZONE

Where It Comes From



DFW NONATTAINMENT AREA

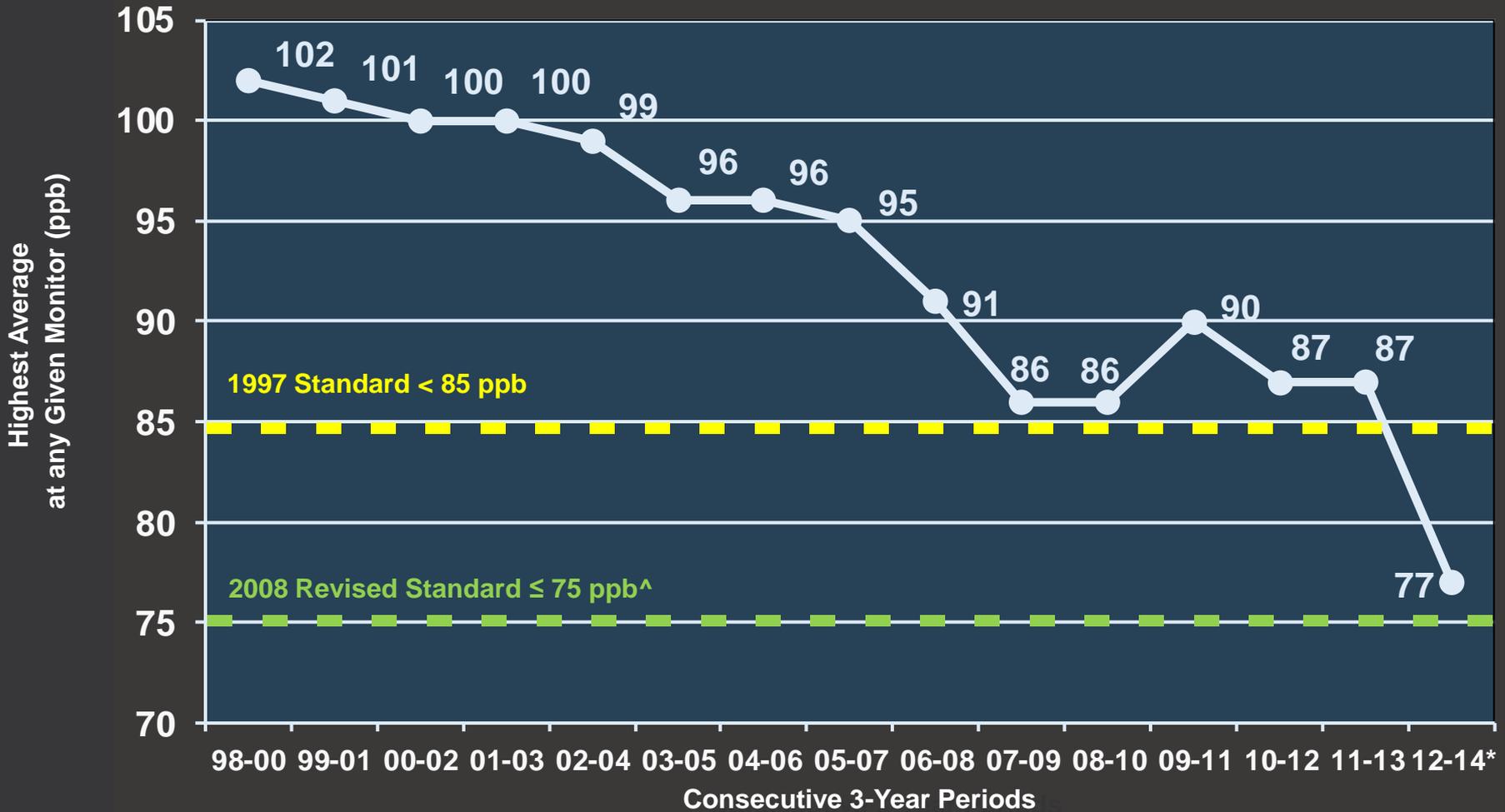
2012 NO_x Emissions Inventory



Nitrogen Oxides (NO_x)
Source: Texas Commission on Environmental Quality (TCEQ)

8-HOUR OZONE STANDARD

DFW Historic Trends

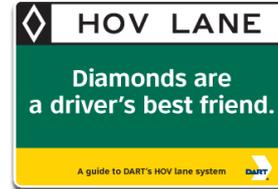


^Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is equal to or less than 75 parts per billion (ppb).

*Not a full year of data.
Current as of 5/11/2014

TRANSPORTATION CONTROL STRATEGIES

Examples of Current Efforts



tryparkingit.com



UNDERSTANDING THE OZONE SEASON

March 1–October 31

Learn the Air Quality Index

Listen/Watch for Air Pollution
Action Day Alerts

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 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

AIR QUALITY PROGRAMS

Solarize Project

Benefits

Creates collaborations between homeowners, local installers, utilities, and government staff to reduce costs and provide information about solar energy to the public

Connects residential homeowners wanting to install solar with qualified installers

Ability to benefit from “group purchases” and local utility incentives that are available for limited time periods

DFW and Texas Implementation

Solarize Plano - <http://www.solarizeplano.org>

Solarize Garland - <http://solarizegarland.blogspot.com>

Solarize Texas - <http://solarizetexas.org>

Resources

www.nctcog.org/solar

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

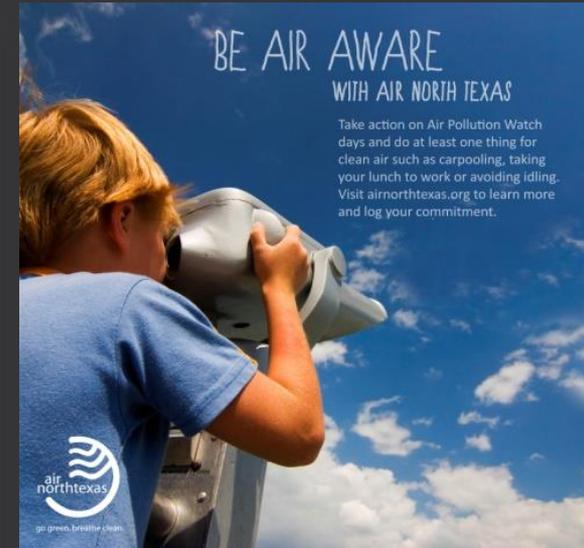
Be Air Aware with Air North Texas

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

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

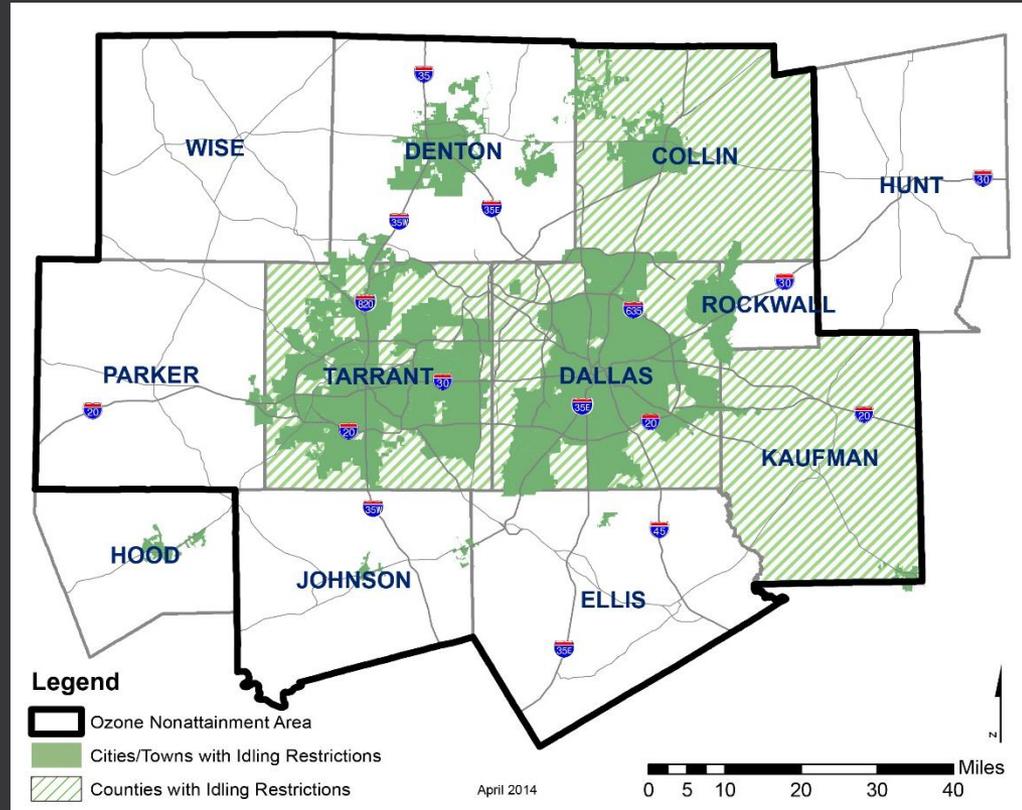
Create an Account at www.tryparkingit.com

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
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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

AIR QUALITY ENFORCEMENT

Locally Enforced Idling 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.



Education Materials available at no-cost

www.engineoffnorthtexas.org

AIR QUALITY 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.

Contact Information

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