

LOCALLY ENFORCED MOTOR VEHICLE IDLING RESTRICTIONS

**Texas Institute of Transportation Engineers (TexITE)
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FEDERAL OZONE STANDARDS

Dallas-Fort Worth Nonattainment Area

**Clean Air Act Amendments Of 1990
1-Hour Ozone Standard
Four North Central Texas Counties**

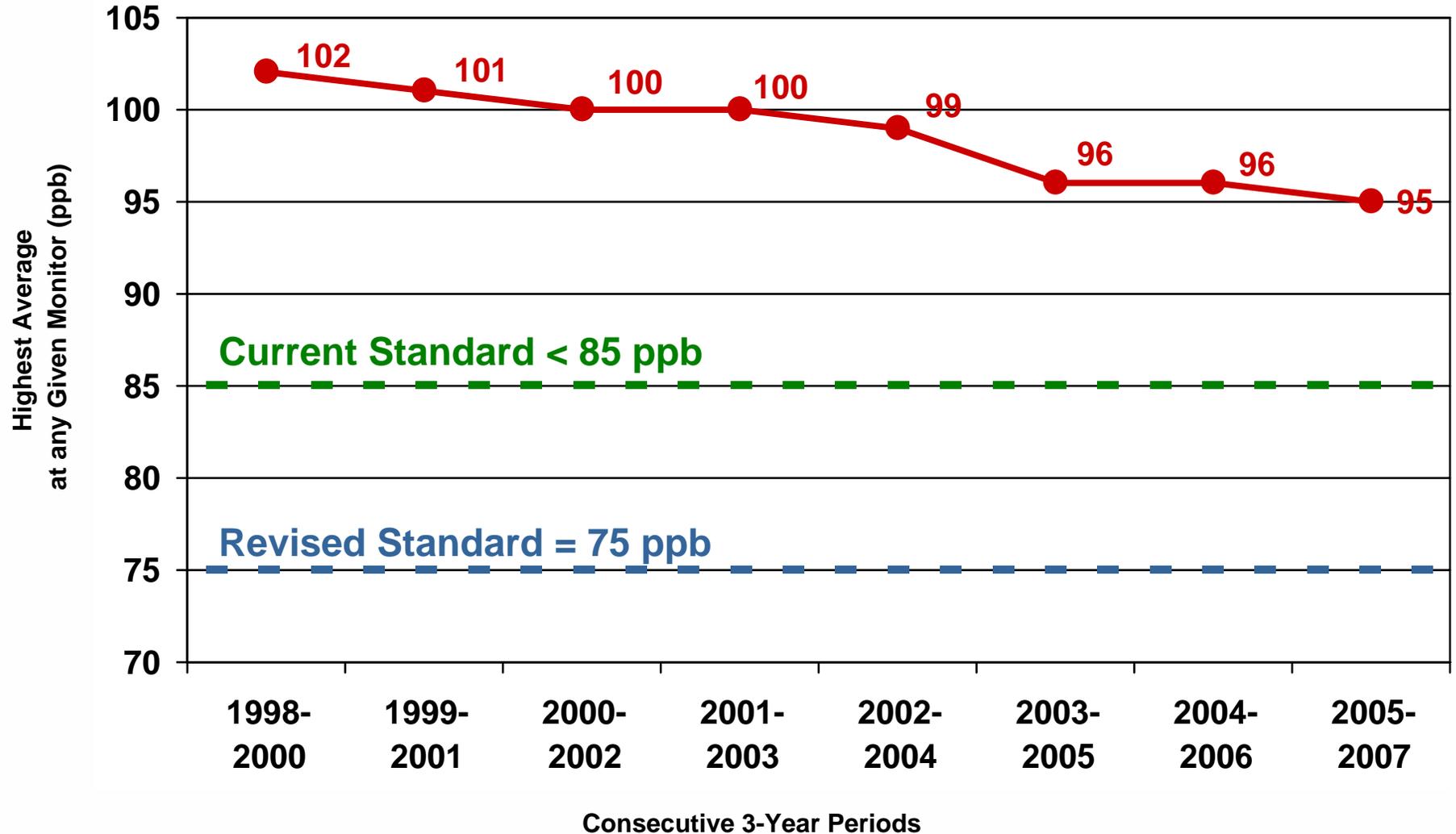


**8-Hour Ozone Standard
Nine North Central Texas Counties
2004 Designation As Moderate**

**8-Hour Ozone Standard
Attainment Date: June 15, 2010**

8-HOUR OZONE HISTORICAL TRENDS*

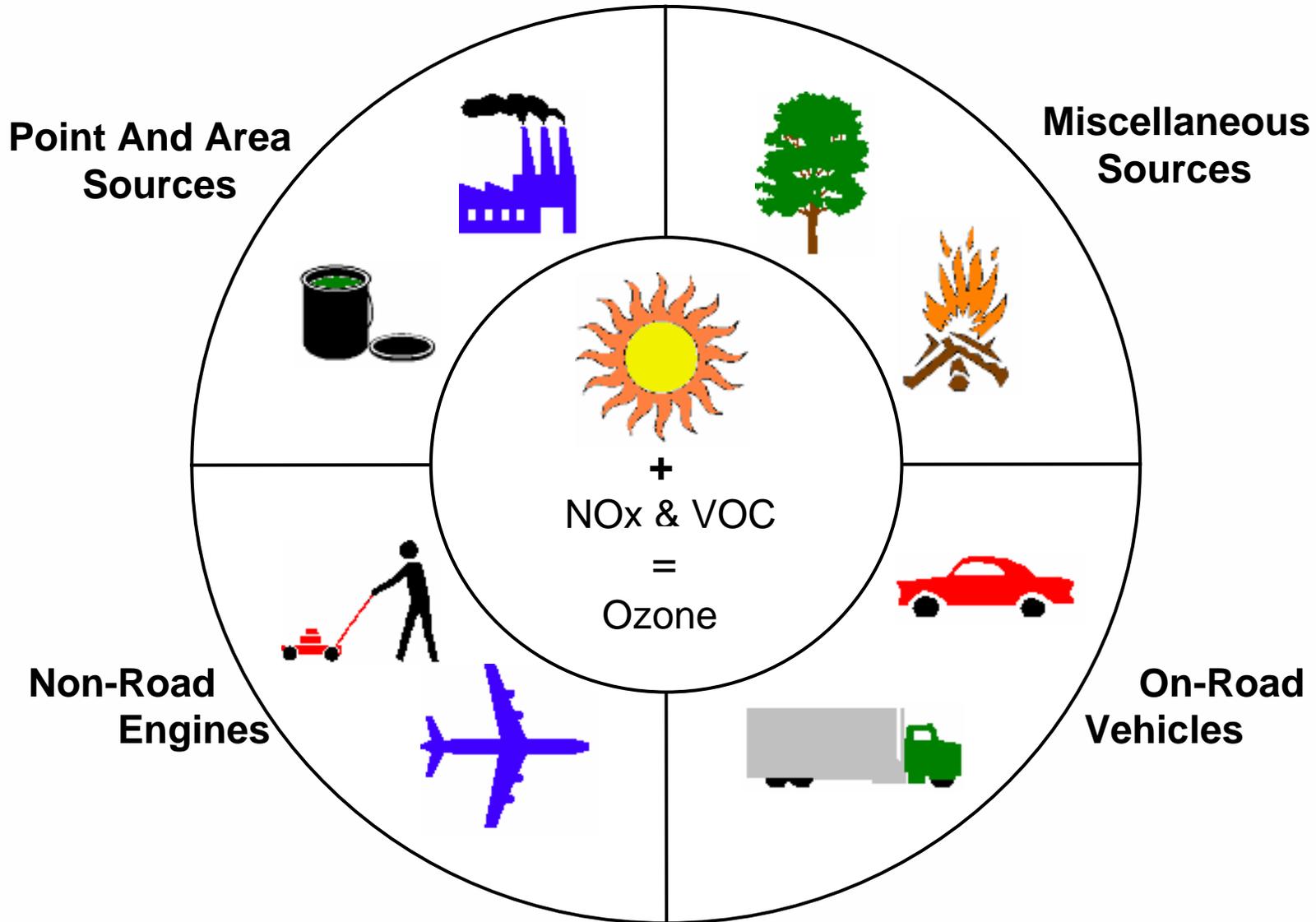
DFW Nonattainment Area



* Current 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).

STATE OF AIR QUALITY IN NORTH TEXAS

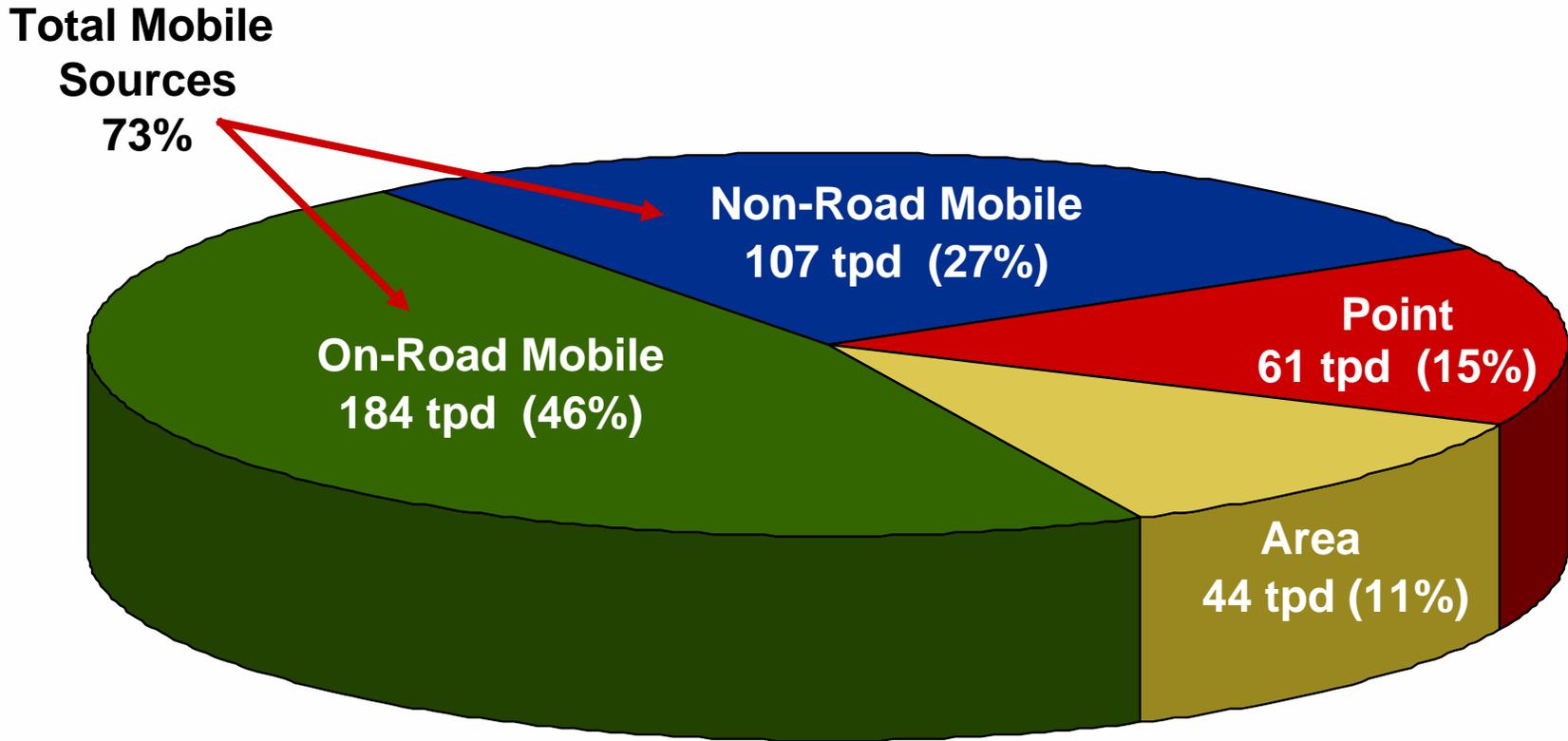
Ozone Formation



DFW NONATTAINMENT AREA

2009 Nitrogen Oxide (NO_x) Emission Inventory

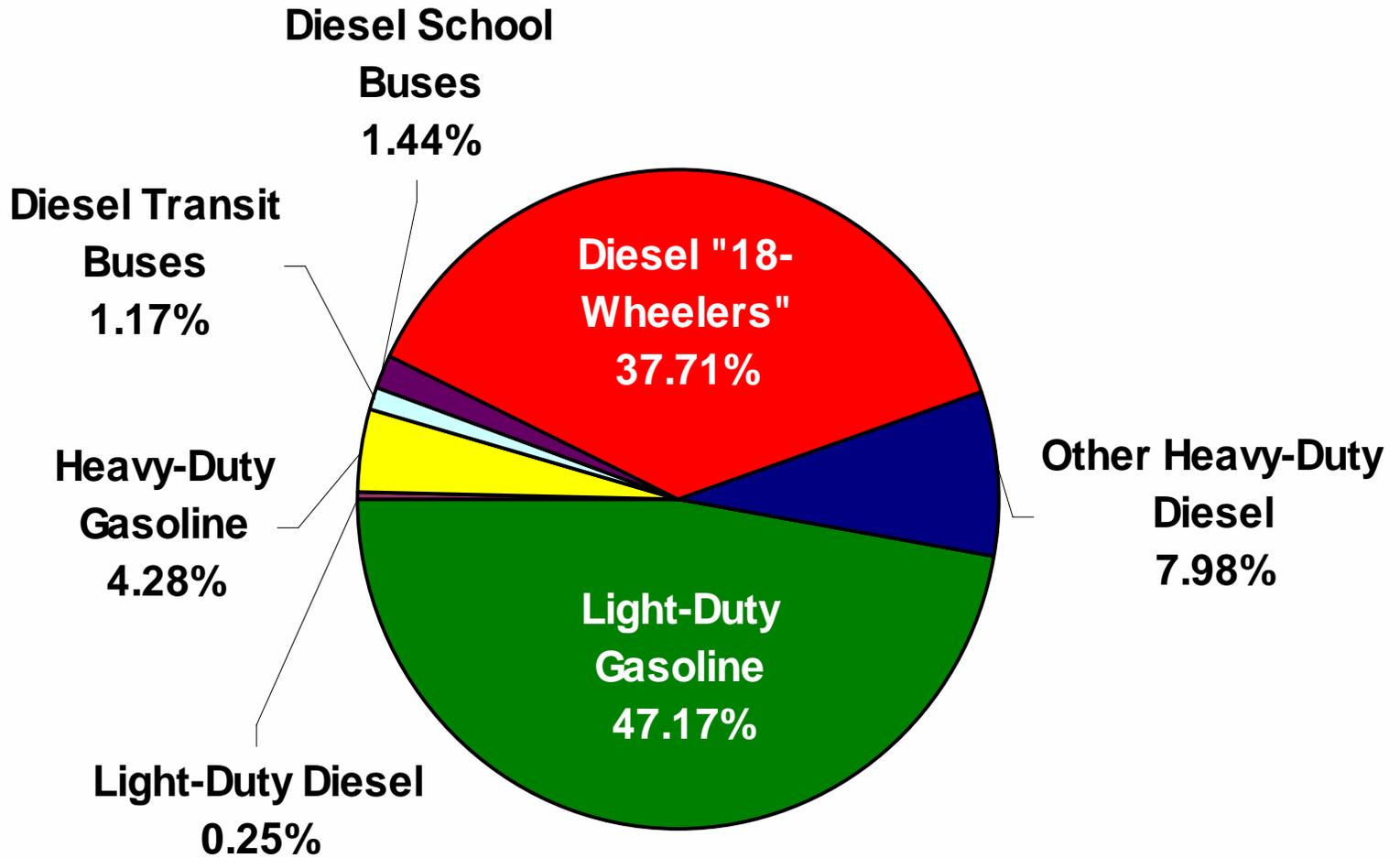
Source Category Estimates



Total NO_x = 396 Tons Per Day (tpd)

DFW NONATTAINMENT AREA

2009 On-Road Nitrogen Oxide (NO_x) Emissions



STATE IMPLEMENTATION PLAN

DFW Nonattainment Area

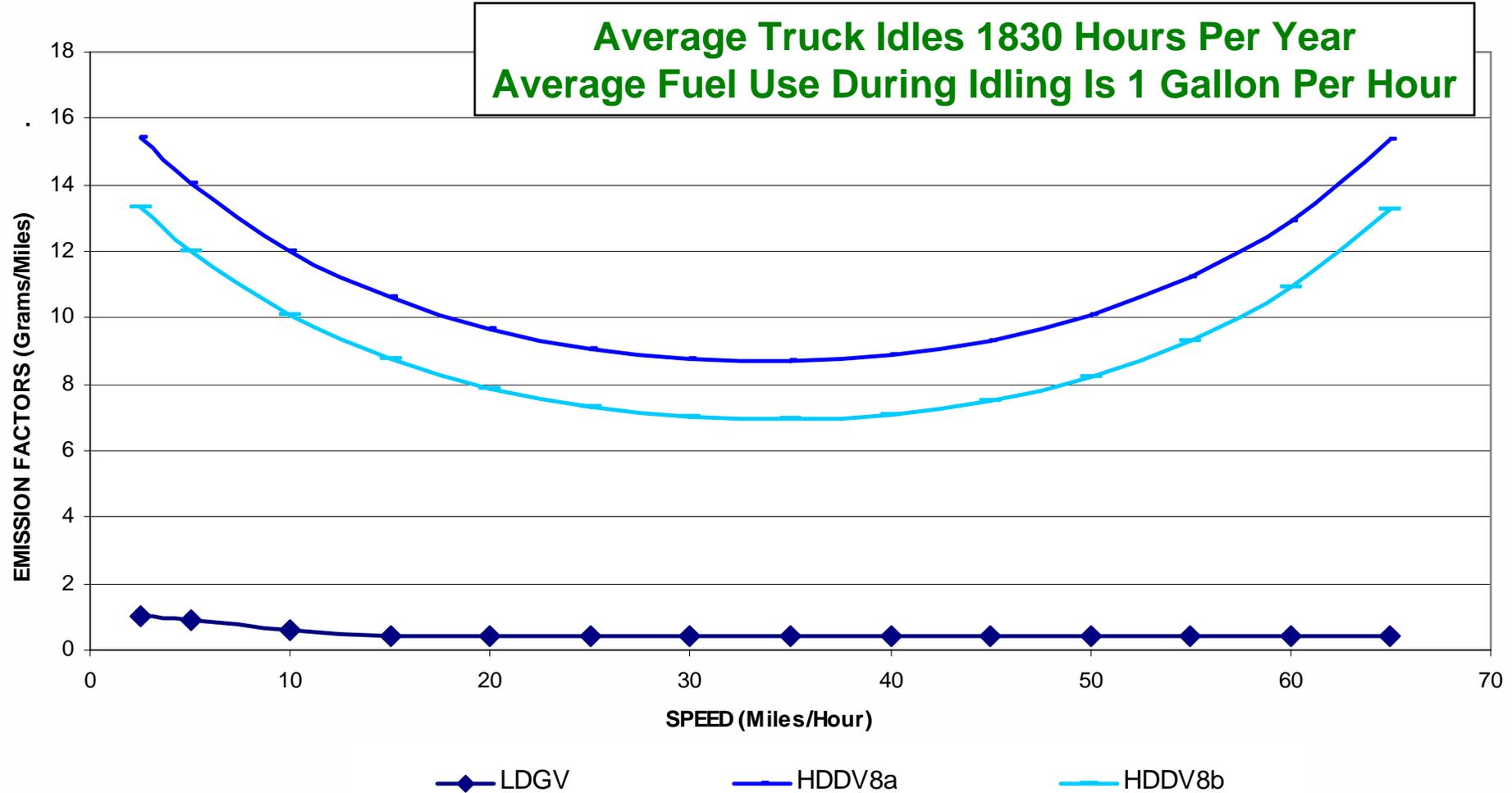
NORTH CENTRAL TEXAS STATE IMPLEMENTATION PLAN VOLUNTARY MOBILE EMISSION REDUCTION PROGRAM (VMEP) EMISSION BENEFITS BY PROGRAM TYPE

PROGRAM TYPE	2009 NO _x BENEFITS (tons per day)		2009 VOC BENEFITS (tons per day)	
	Modeled	Post-Processed	Modeled	Post-Processed
Clean Vehicle Program	0.00	0.24	0.00	0.05
Employee Trip Reduction	0.43	0.00	0.28	0.00
Locally Enforced Idling Restriction	0.00	0.62	0.00	0.02
Diesel Freight Idling Reduction Program	0.00	0.33	0.00	0.01
SmartWay Transport Demonstration Project	0.00	0.00	0.00	0.00
Public Agency Policy for Construction Equipment	0.00	0.06	0.00	0.01
Aviation Efficiencies	0.00	0.95	0.00	0.24
TOTAL BENEFITS (tons per day)	0.43	2.20	0.28	0.33

(1) NO_x = Nitrogen Oxides, VOC = Volatile Organic Compounds

MOTOR VEHICLE IDLING RESTRICTIONS

2009 Vehicle Emissions



MOTOR VEHICLE IDLING RESTRICTIONS

Why Is It Important?

Idling Emissions Contribute To Air Pollution, Which Can Cause Adverse Health Effects.

In Addition, The U.S. EPA Estimates That Excess Idling Is Responsible For:

- **> 1 Billion Gallons Of Diesel Fuel Consumed Annually**
- **11 Million Tons Of Carbon Dioxide, 200,000 Tons Of Nitrogen Oxides, And 5,000 Tons Of Particulate Matter Emitted Annually**
- **Increased Engine Maintenance Costs**
- **20% Decrease In Engine Life**
- **Elevated Noise Levels**

MOTOR VEHICLE IDLING RESTRICTIONS

TCEQ Rule

Texas Administrative Code (TAC)

TITLE 30

Part 1

Chapter 114

Subchapter J

Division 2

Locally Enforced Motor Vehicle Idling Limitations

§ 114.510-114.517

MOTOR VEHICLE IDLING RESTRICTIONS

Applicability (TAC Title 30)

Motor Vehicles With A Gross Vehicle Weight Rating Of 14,000 Pounds Or Greater, i.e.:

Flat Bed, Stake Trucks, Step Vans, Utility Trucks, Dump, Garbage, Fuel And Beverage Delivery Trucks, Tractor-Trailer Trucks, School And Transit Buses

Only Within A Jurisdiction Of A Local Government That Has Signed A Memorandum Of Agreement With TCEQ To Delegate Enforcement Of The Provisions To That Local Government

Jurisdiction-By-Jurisdiction Adoption Required

MOTOR VEHICLE IDLING RESTRICTIONS

Control Requirements (TAC Title 30)

The Primary Propulsion Engine Of A Motor Vehicle May Not Idle For More Than Five Minutes When Vehicle Is Not In Motion

Applicable From April 1 Through October 31

No Driver Using Vehicle's Sleeper Berth May Idle In:

- **A Residential Neighborhood**
- **A School Zone**
- **Within 1,000 Feet Of A Hospital**
- **Within 1,000 Feet Of A Public School During Hours**
- **Within 2 Mile Radius Of An Electrified Truck Stop**

MOTOR VEHICLE IDLING RESTRICTIONS

Exemptions (TAC Title 30)

Vehicle Type

Vehicles With Sleeper Berth (Before September 2009 Only)

Military, Emergency Or Law Enforcement Vehicles

Airport Ground Support Equipment

Vehicles Rented Or Leased to Persons Not Employed By Owner

Operations

Idling Due To Traffic Congestion

Motors Run As Power Source For Mechanical Operations

Idling During Operation For Maintenance/Diagnostic Purposes

Operation Of Engine Solely To Defrost A Windshield

MOTOR VEHICLE IDLING RESTRICTIONS

Exemptions Continued (TAC Title 30)

Air Conditioning And Heating Provision

For Passenger Comfort And Safety In Vehicles Intended For Commercial/Public Passenger Transportation Or Passenger Transit Operations (30 Minutes Maximum)

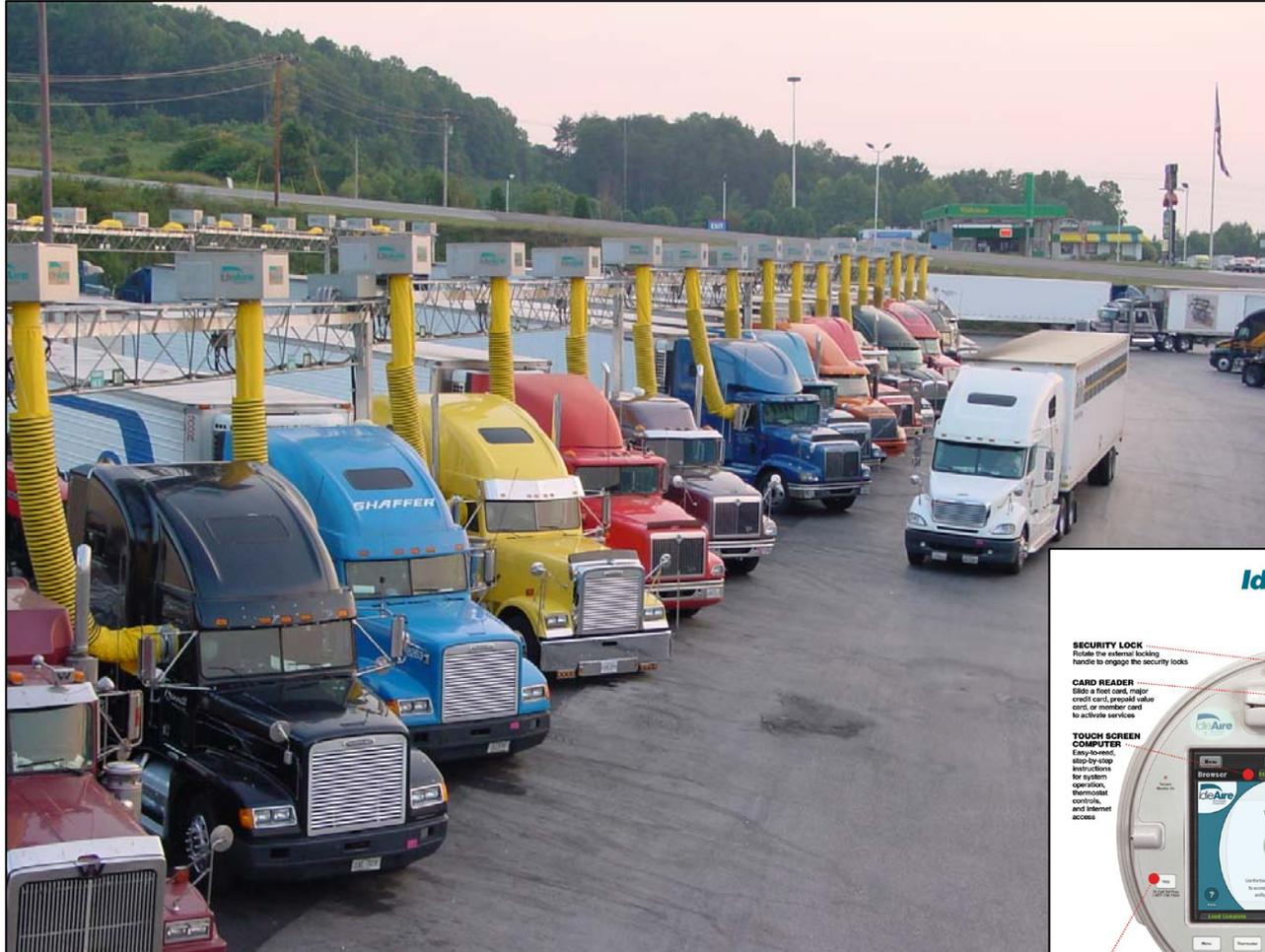
For Employee Health Or Safety While Employee Is Using Vehicle To Perform An Essential Job Function Related To Roadway Construction Or Maintenance

During Use Of Sleeper Berth For A Government-Mandated Rest Period (Subsection Expires September 1, 2009)

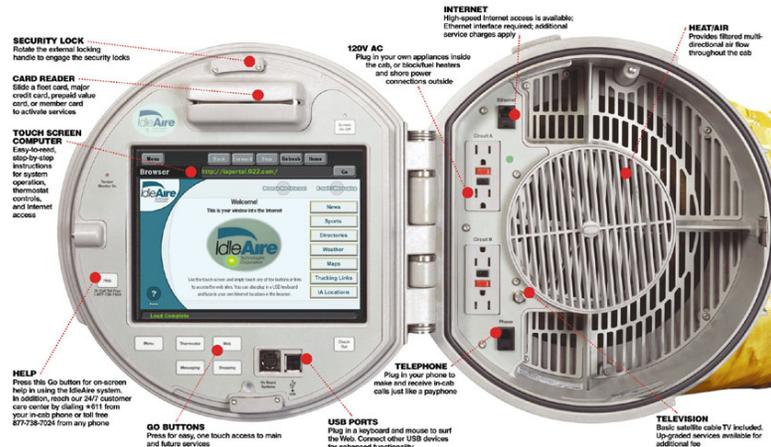
MOTOR VEHICLE IDLING RESTRICTIONS

Idle Reduction Technology

On-Site Infrastructure



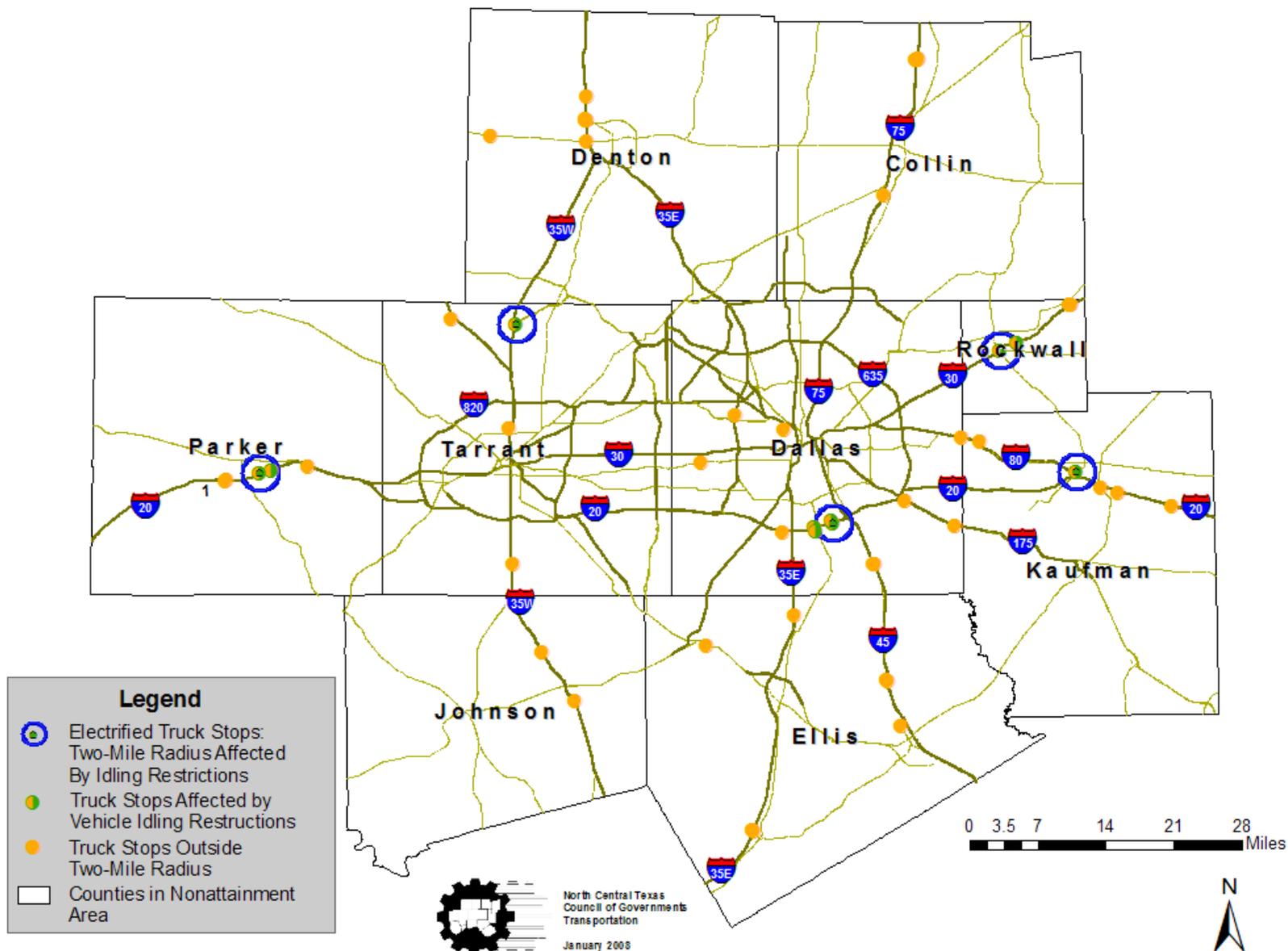
IdleAire Service Delivery Module



Front View

MOTOR VEHICLE IDLING RESTRICTIONS

Map of Regional Truck Stops



MOTOR VEHICLE IDLING RESTRICTIONS

Idle Reduction Technology

On-Board Infrastructure

Auxiliary Power Units (APU)



Photo courtesy of Next Generation Power



Self-contained full-function auxiliary power in a shock-resistant chassis-mount design.

Automatic Engine Shutdown Devices

MOTOR VEHICLE IDLING RESTRICTIONS

Funding

Texas Emissions Reduction Plan (TERP)

On-Site And On-Board Idle Reduction Infrastructure

www.TERPGrants.org

SmartWay Transport Partnership

Innovative Financing For Fuel-Efficient Technologies

<http://www.epa.gov/smartway/>

Other Funding Solicitations

National Idle Reduction Network News

http://www1.eere.energy.gov/vehiclesandfuels/resources/fcvt_national_idling.html

MOTOR VEHICLE IDLING RESTRICTIONS

Current Implementation

Effective In Texas In Five Counties And Eight Cities

Counties : Bastrop, Caldwell, Hays, Travis* And
Williamson*

Cities: Austin, Round Rock, Lockhart,
San Marcos, Elgin, Bastrop, Luling, And Dallas**

21 Other U.S States That Have Idling Restriction Rules Include:

**AZ, CA, CO, CT, DE, DC, GA, HI, IL, MD, MA, MN, MO, NV,
NH, NJ, NY, RI, PA, UT, VA**

* Currently Being Enforced Per TCEQ

** MOA in Progress

MOTOR VEHICLE IDLING RESTRICTIONS

North Texas MOA

To Be Entered Into By Local Governments In The North Central Texas Region And The Texas Commission On Environmental Quality (TCEQ) To Implement And Enforce Idling Restrictions

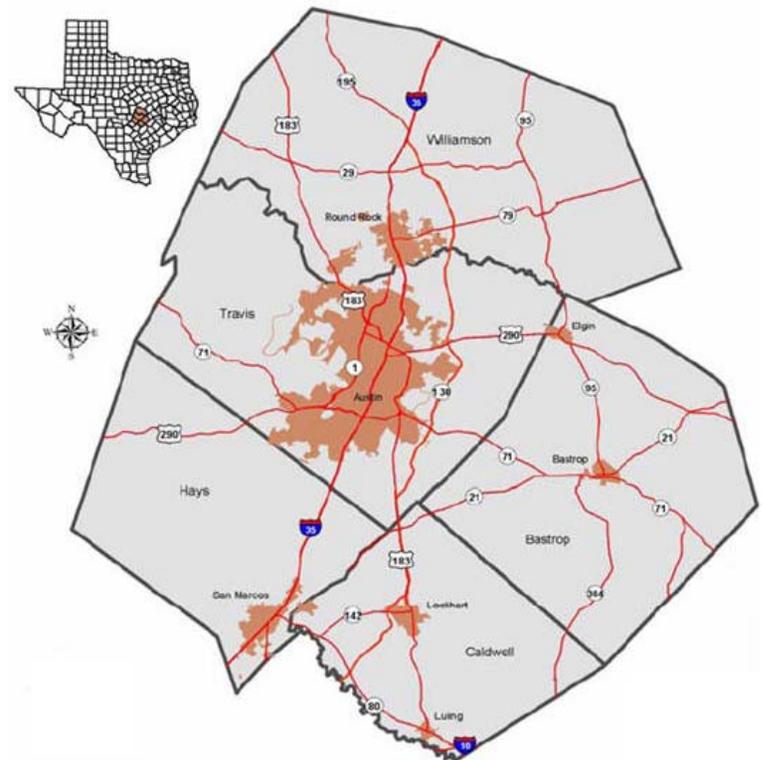
NCTCOG Will Facilitate Outreach To Local Governments To Promote Participation In The North Texas MOA

MOTOR VEHICLE IDLING RESTRICTIONS

Austin-Round Rock Example



An eight-month public education and outreach program preceded enforcement of the rules, which began in 2006.



MOTOR VEHICLE IDLING RESTRICTIONS

Implementation & Outreach

#IDLE To Report Vehicles Via Cell Phone If Idling For More Than Five Minutes

(Similar to #SMOKE For Reporting Smoking Vehicles Within DFW Region With A Texas License Plate)



Marketing Materials Including Anti-Idling Signs

Regional Web Page To Distribute Information Regarding Local Restrictions And Applicability

MOTOR VEHICLE IDLING RESTRICTIONS

www.EngineOffDallas.org



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[Texas Clean Air Cities Coalition](#)
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[Comprehensive Plan](#)



[City Environmental Calendar](#)

Today's Air Quality...



No Air Pollution
Watch for
Wednesday
Apr 16 2008

Anti-Idling Ordinance

To report an Idling Vehicle

If you see a vehicle over 14,000 pounds idling for over 5 minutes, please dial 311 and report the vehicle's license plate number to the operator.



Trucks Idling, credit: Texas Transportation Institute

What is the [City of Dallas' Anti-Idling Ordinance?](#) (Adobe PDF)

[Know Your Options](#) (Adobe PDF)

[Additional Information](#) (Adobe PDF)

[Contact Us](#) (Adobe PDF)

Interesting Information

- EPA [Fuel Savings Calculator](#)
- [FAQs](#) about the Anti-Idling Ordinance (Adobe PDF)
- [How to order](#) a restricted idling sign or brochures (Adobe PDF)
- Read the City of Dallas [Anti-Idling brochure](#) (Adobe PDF)

Resource Links (From the Adobe PDF files above)

- [\(EPA\) Idling Reduction Alternatives](#)
- [Texas Emissions Reduction Plan \(TERP\)](#)
- [Texas Commission on Environmental Quality](#)
- [U.S Department of Energy Alternative and Advanced Vehicles](#)
- [SmartWay Transport Partnership \(EPA Region 6\)](#)
- [IdleAire](#)
- [National Idling Reduction Network News](#)



HOW CAN YOU GO GREEN?

TOP 5 TIPS

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- [Green Your Home](#)
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You & Climate Change Who's In Charge Here?

GREEN FOR KIDS

- [Growing Up Green](#)
- [EPA for Kids](#)



[Texas Discovery Gardens](#)

MOTOR VEHICLE IDLING RESTRICTIONS

Local Responsibility

Regional Transportation Council (RTC)

Adopt Resolution Endorsing Locally-Enforced Idling Restriction (Anticipated May 8, 2008)

**Tie Idling Rule Adoption To Future RTC Funding
Coordinate With TCEQ To Modify Rule Based On
RTC Recommendations**

Local Governments

Adopt Rule By Reference

Sign North Texas MOA

Enforce Rule – Various Enforcement Options:

Peace Officers

Parking Enforcement Personnel

Dedicated Idling Enforcement Branch

MOTOR VEHICLE IDLING RESTRICTIONS

Enforcement & Penalties

Enforcement:

City of Dallas - City Marshal's Office

Regional Emissions Enforcement Program -

Cooperation With Local Law Enforcement

Agencies (i.e. – Constable's Office, Marshal's

Office, Sheriff's Office, And/Or Local Police

Departments)

Penalties:

Fine Not To Exceed \$500 Per Offense

Each Violation Is Considered A Separate Offense

MOTOR VEHICLE IDLING RESTRICTIONS

North Central Texas Clean School Bus Program

**Promote School Zone
Anti-Idling Policy to
Complement Local
Idling Restrictions**

**School Emissions
Reduction Outreach
And Education
Campaign**



Bledsoe Elementary School in Frisco

MOTOR VEHICLE IDLING RESTRICTIONS

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