

OPTIMIZING TRUCKING OPERATIONS: FUNDING & EFFICIENCY TIPS

**Texas Trucking Association Luncheon
at Earth Day Texas**

April 22, 2016

**Lori Clark and Jason Brown, Air Quality Management & Operations
North Central Texas Council of Governments**



THE BASICS: Who We Are

North Central Texas Council of Governments (NCTCOG)
is:

Council of Governments

- Regional Coordination

Metropolitan Planning Organization

- Transportation Planning
- Air Quality

Dallas-Fort Worth Clean Cities Coalition (DFWCC)

- Petroleum Reduction
- Alternative Fuels



**Dallas-Fort Worth
CLEAN CITIES**

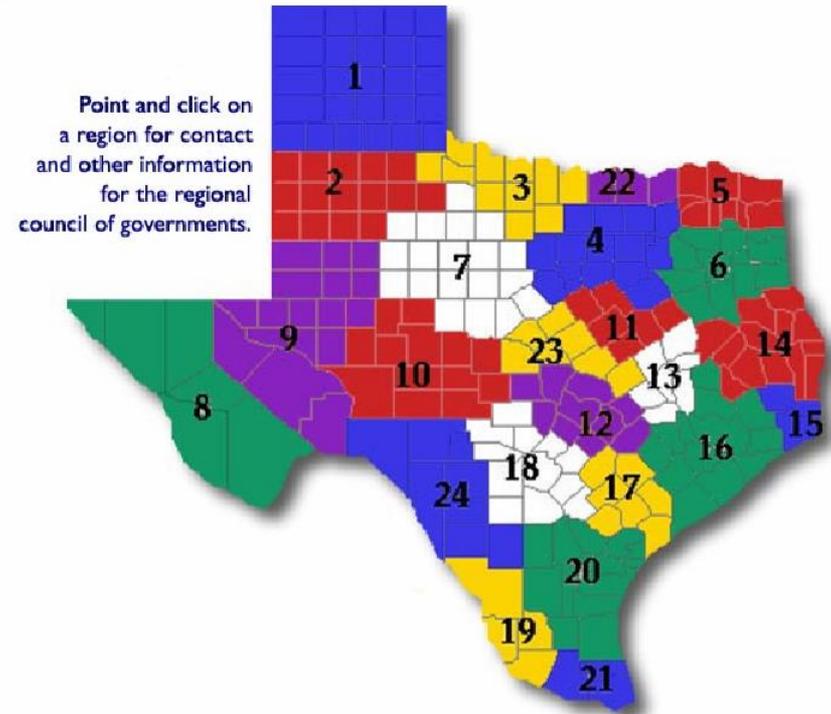
WHO YOU NEED TO KNOW

Councils of Governments (COGs)

**Coordinate Regional Planning
and Problem Solving,
Including Air Quality Issues
Where Applicable**

**Texas Divided into 24
Regional Councils**

Regions



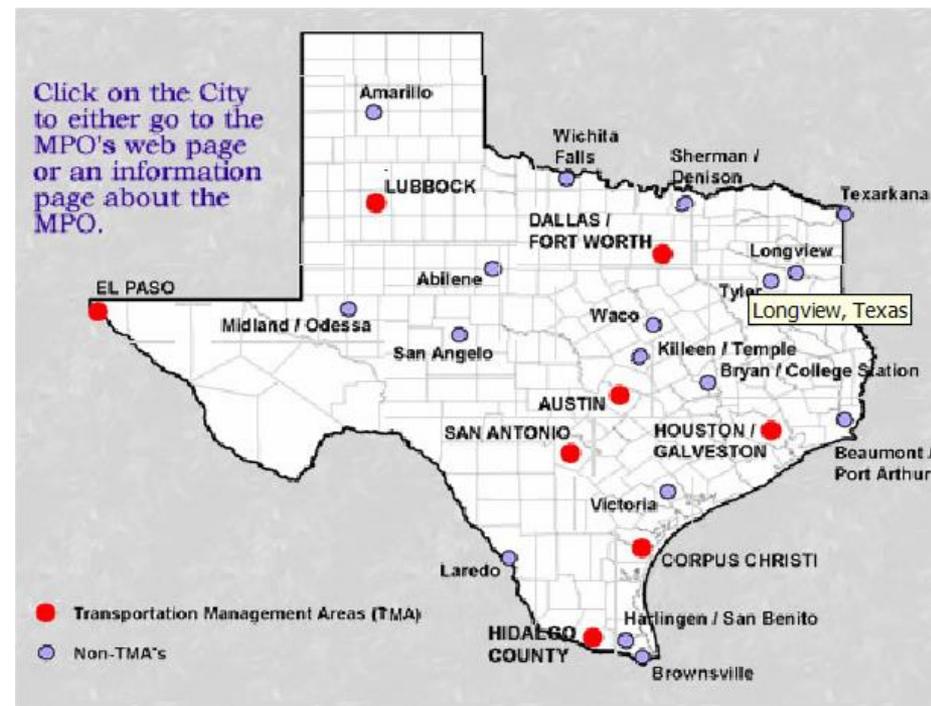
WHO YOU NEED TO KNOW

Metropolitan Planning Organizations (MPOs)

Serve Urbanized Areas with Populations of 50,000 or More

Funnel Federal and State Funding to Local Entities

Oversee Transportation Planning



WHO YOU NEED TO KNOW

Clean Cities Coalitions



US Department of Energy Program Work to Reduce Petroleum Consumption

- Alternative Fuels
 - Advanced Vehicles
- ### Offer National Support Through Local Coalitions
- Outreach
 - Education
 - Technical Assistance



NCTCOG SERVICE AREA & OZONE NONATTAINMENT AREAS

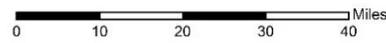
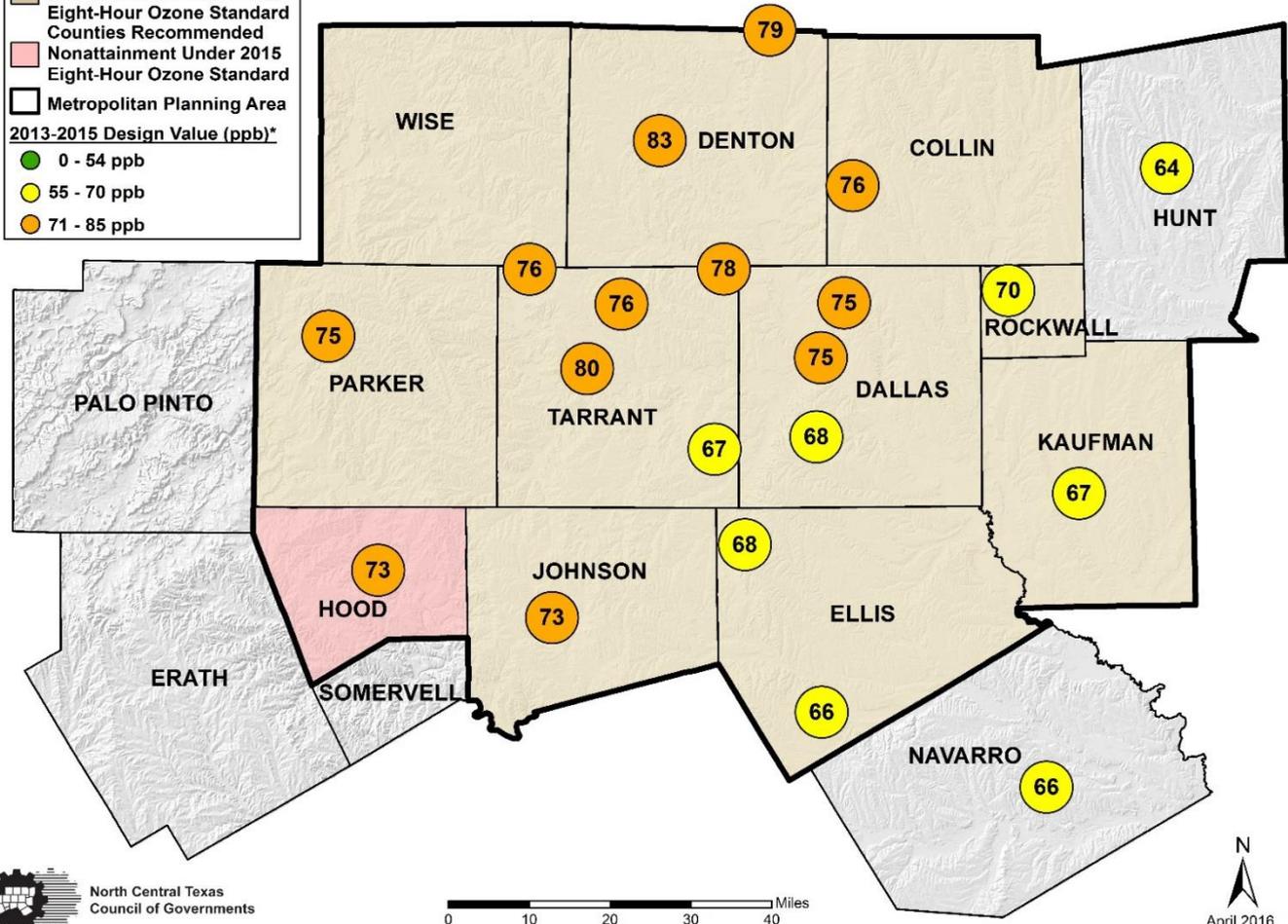


Legend

- Counties Designated as Nonattainment Under 2008 Eight-Hour Ozone Standard
- Counties Recommended Nonattainment Under 2015 Eight-Hour Ozone Standard
- Metropolitan Planning Area

2013-2015 Design Value (ppb)*

- 0 - 54 ppb
- 55 - 70 ppb
- 71 - 85 ppb



WHAT WE DO: Freight North Texas



Improve the Availability of Transportation Options for Goods, Services and People Movement throughout the DFW Region by:

Seeking Freight Community Participation in the Planning Process

Promoting Safety, Mobility and Accessibility

Monitoring Freight Traffic

Reviewing Freight Related Impacts on the Transportation Network

Recommending Project Studies and Project Implementation Strategies



WHAT WE DO: Regional Freight Advisory Committee

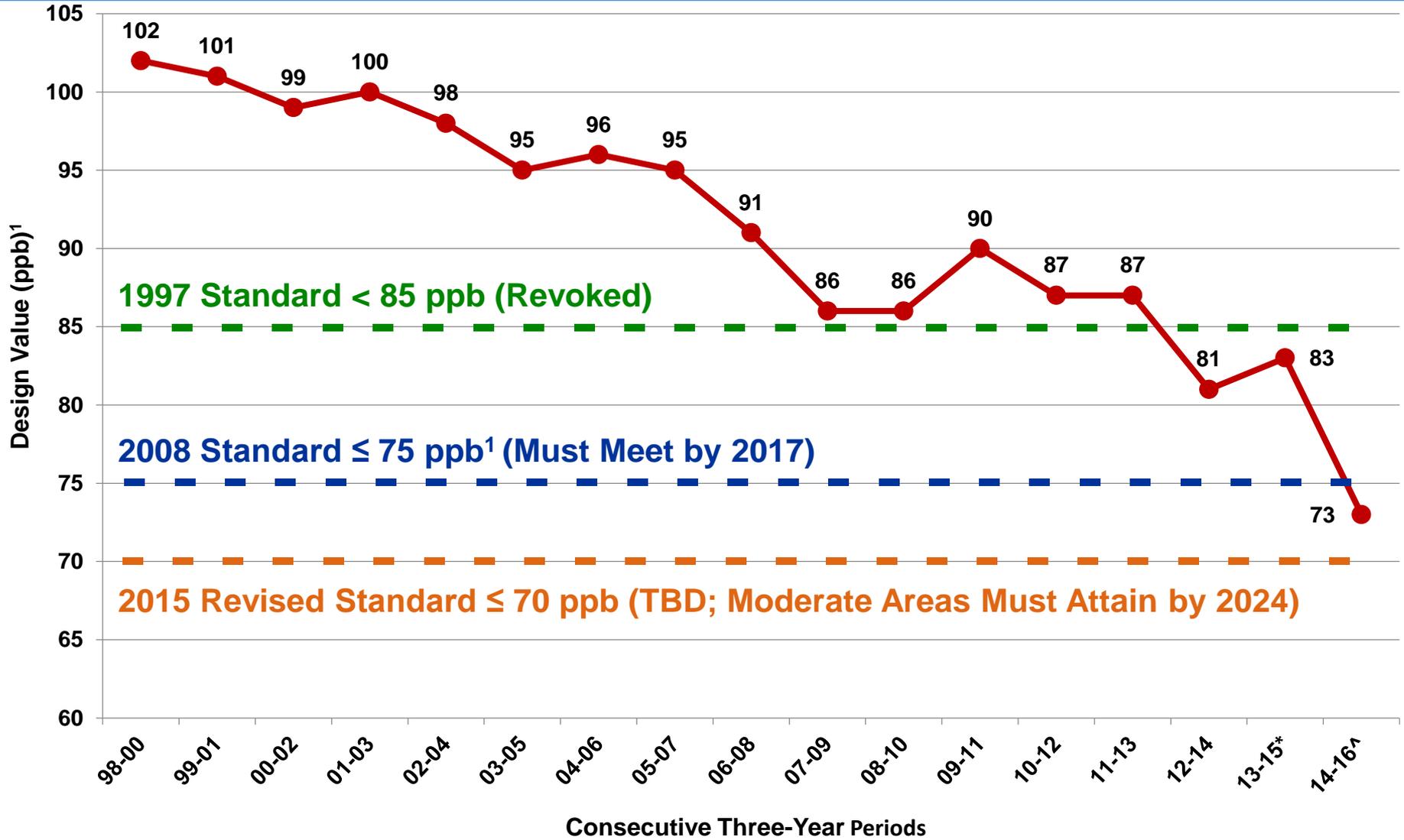
Established to Enhance the Regional Freight System Through Information, Knowledge and Technology Sharing Between Public and Private Interests

The Committee:

Advises NCTCOG Staff and the
Regional Transportation Council
Promotes the Region's Freight
Related Capabilities
Provides Feedback on Recommended
Regional Freight Strategies



WHAT WE DO: Air Quality



¹Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 ppb.

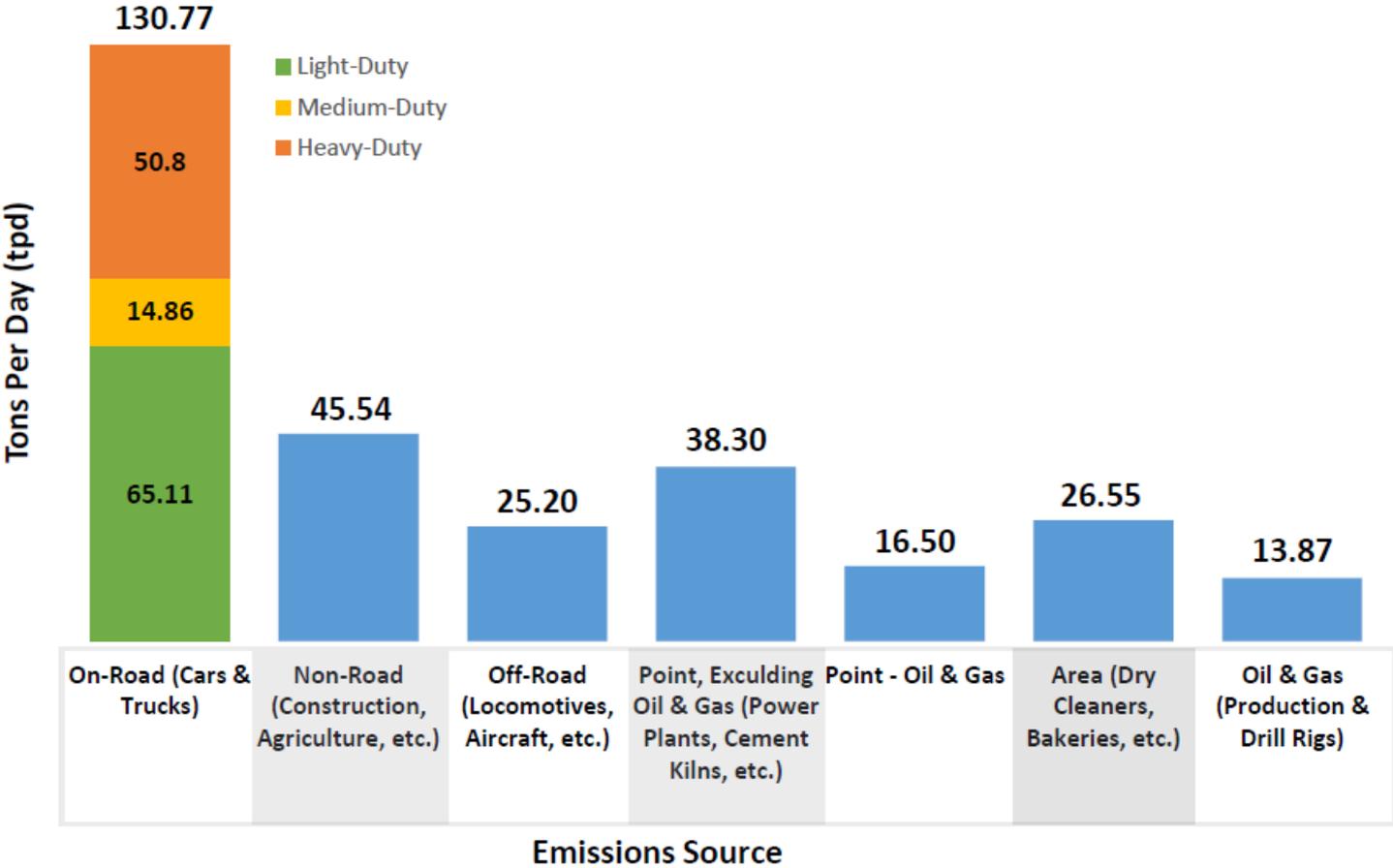
*Data not certified by the Texas Commission on Environmental Quality

^Not a full year of data, current as of 4/05/2016.

WHAT WE DO: Air Quality

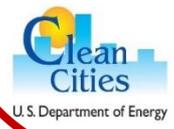
Estimated 2017 Nitrogen Oxides (NO_x) Emissions Inventory

Source Category Estimates = 296.73 tons per day (tpd)



Source: Texas Commission on Environmental Quality, 2017 Dallas-Fort Worth 8-hour Ozone Attainment Demonstration State

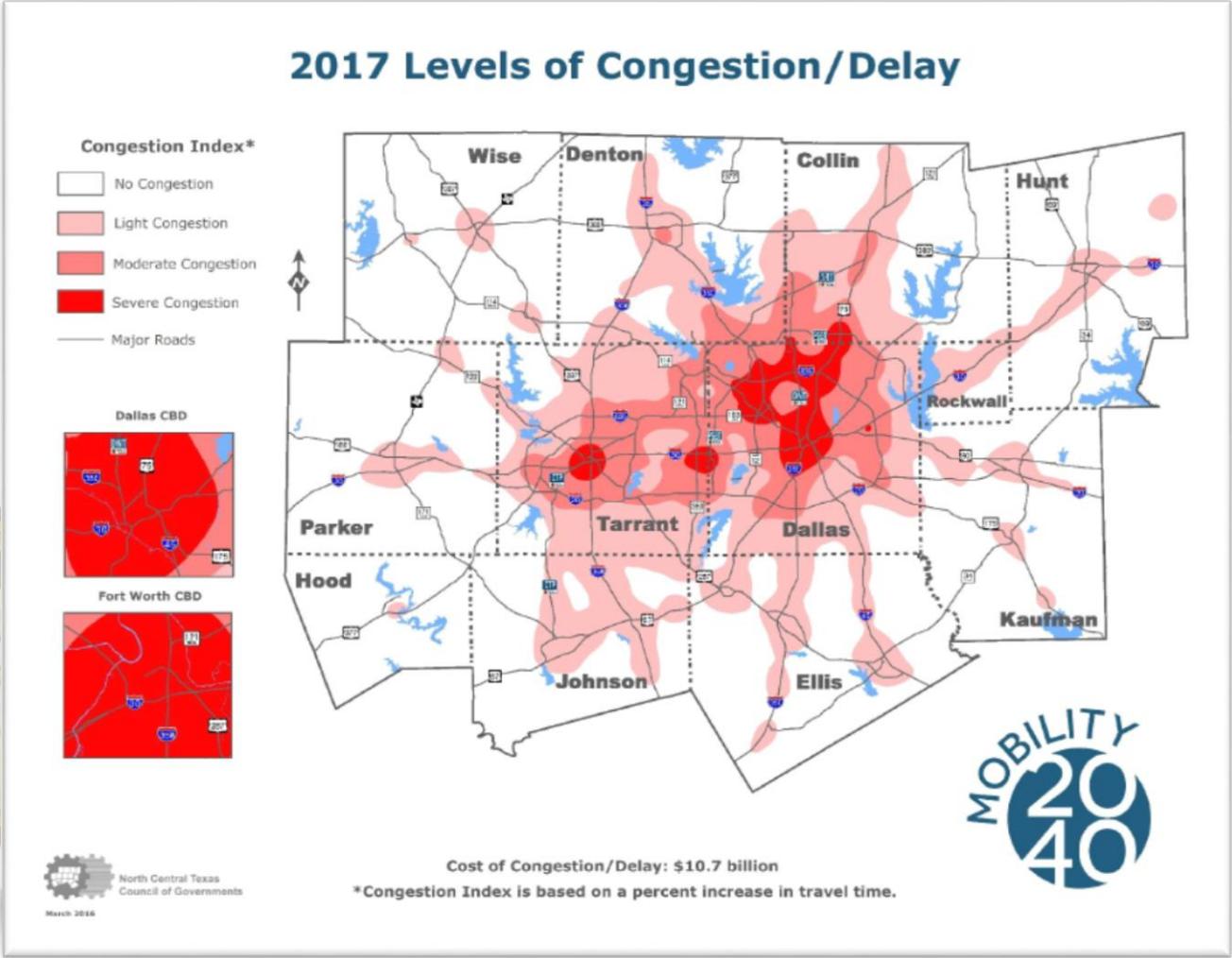
WHAT WE DO: Air Quality Control Strategies



LOOKOUT TEXANS
BIKE
WALK
DRIVE
SAFELY



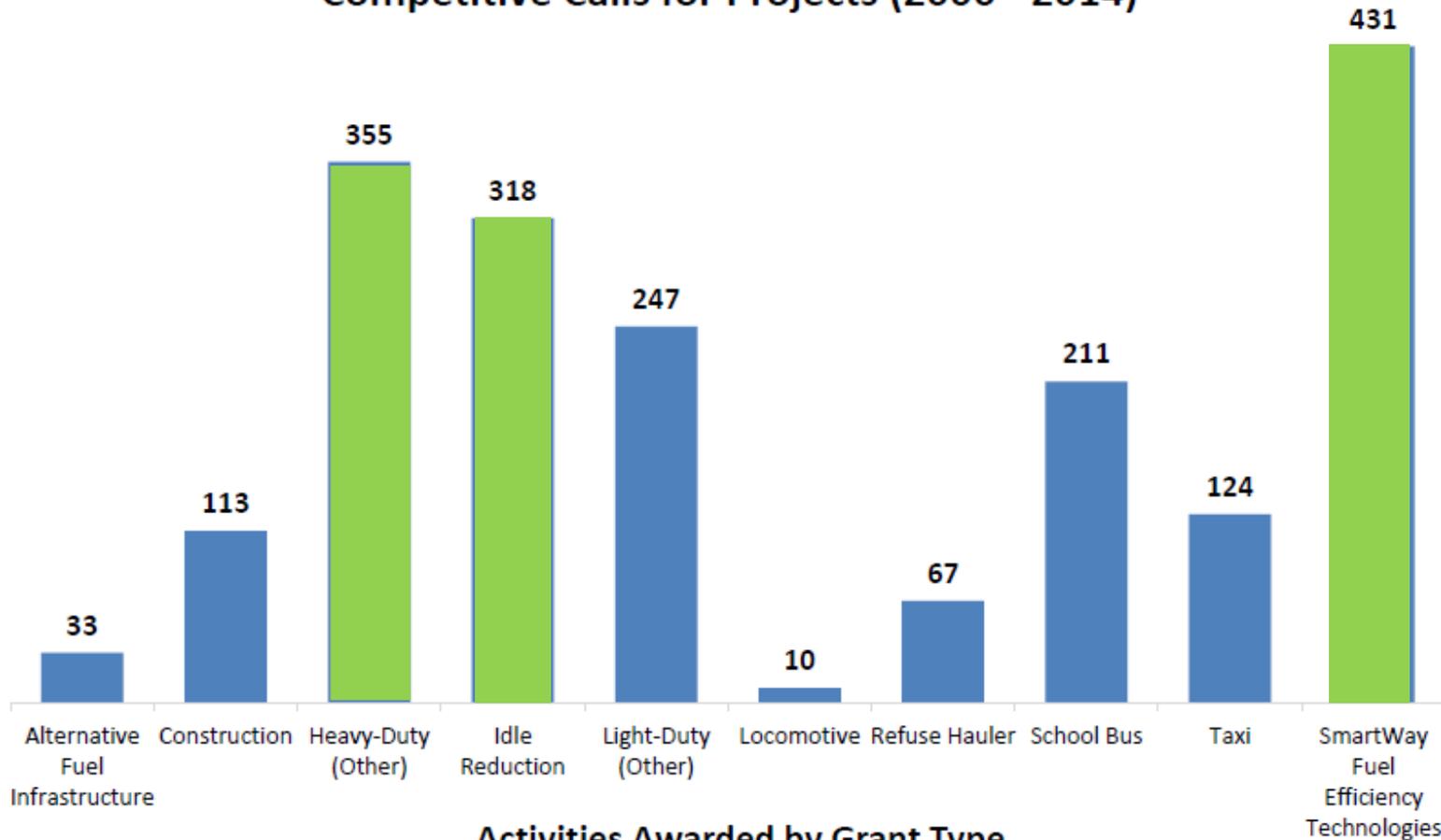
WHY DOES THIS MATTER?



NCTCOG AIR QUALITY FUNDING HISTORY



Vehicle/Equipment/Technology Activities Awarded through Competitive Calls for Projects (2006 - 2014)



Activities Awarded by Grant Type
(1909 Total Activities)

TYPES OF ASSISTANCE

Grants

Often Funded as Reimbursement

Not Intended to Fund “Normal Fleet Attrition”

Often Come with “Strings”

Tax Credits/Incentives

Financing Programs

Return on Investment

BE PREPARED

Establish Fleet Priorities

Determine Typical Fleet Turnover Cycle

Develop and Maintain a Detailed Fleet Inventory

Vehicle Model Year

Gross Vehicle Weight

Fuel Type

Annual Mileage

Engine Year, Make, Model

Emissions Standard

TIPS FOR SUCCESS

Applications

- Address Agency Priorities
- Be Specific and Complete
- Demonstrate Need
- Provide Technical Documentation
- Quantify Expected Results
- Demonstrate Partnerships and Abilities
- Demonstrate Previous Experience/Capability
- Ask Questions (Early)

Implementation

- Communicate
- Establish Clear Milestones
- Leverage Partnerships for Assistance
- Ask Questions



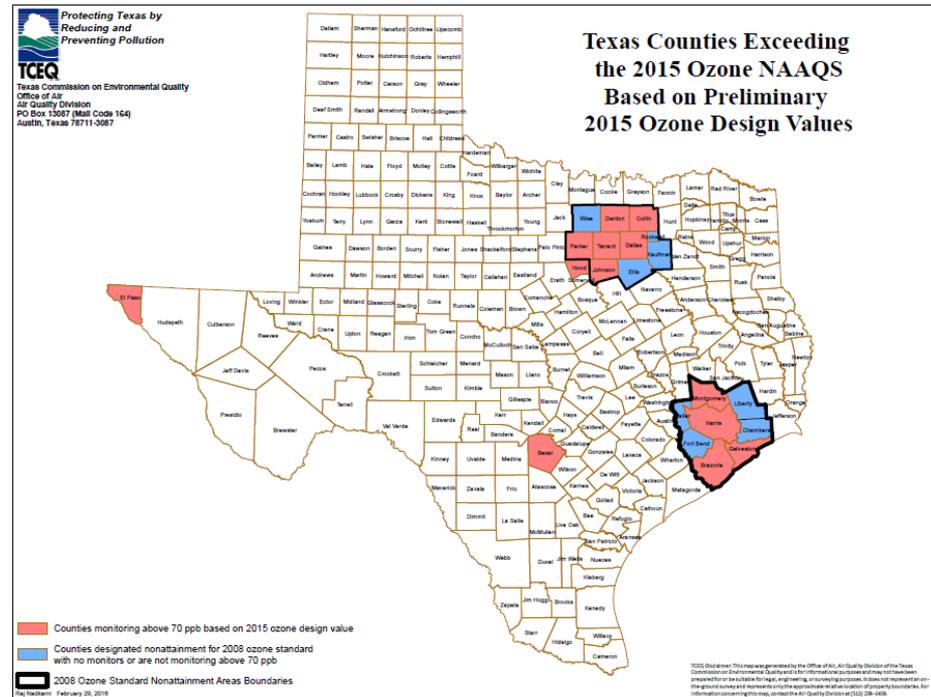
FEDERAL FUNDING

**Federal Highway Administration:
Congestion Mitigation and Air
Quality Improvement Program
(CMAQ)**

**Environmental Protection Agency:
Clean Diesel Funding Assistance
Program**

**Department of Energy: Vehicle
Technologies Program**

**Department of Agriculture Office of
Rural Development: Rural Energy
for America Program (REAP)**



IRS TAX CREDITS/INCENTIVES

Vehicles	Qualified Plug-In Electric Drive Motor Vehicle Tax Credit
Fuels	Alternative Fuel Excise Tax Credit \$0.50/Gallon or Gasoline Gallon Equivalent for Liquid Hydrogen, Natural Gas (CNG or LNG), and Propane (LPG) Biodiesel Income Tax Credit \$1/Gallon of Pure 100% Biodiesel Used as On-Road Fuel Credits/Incentives for Fuel Blenders and/or Producers
Infrastructure	Alternative Fuel Infrastructure Tax Credit 30%, Up to \$30,000, of Installation Costs
Other	Idle Reduction Equipment Excise Tax Exemption Natural Gas Vehicle Weight Exemption

Texas Emissions Reduction Plan (TERP) Program

Emission Reduction Incentive Grant (ERIG) Program

Rebate Program

Texas Clean Fleet Program

Texas Natural Gas Vehicle Grant Program

www.terpgrants.org



FUNDING CLEARINGHOUSE

www.nctcog.org/AQFunding

Looking for Grant Funding?

Apply for 2016 Clean Diesel Call for Partners

Vehicle Funding Opportunities

Other Air Quality Funding Opportunities

Funding Opportunity Archive

Sign-Up for Email Updates

Click the links below for a program description and relevant dates and details.

	Eligible Focus Areas									Eligible Applicant Type
	Heavy-Duty Vehicles					Light-Duty Vehicles				
	School Buses	Oil and Gas Vehicles/Equipment	Long Haul Trucks	Dump Trucks	Idle-Reduction Technology	Other	Passenger Vehicles	Taxis		
AirCheckTexas Drive a Clean Machine Program							X			General Public
2016 Clean Diesel Call for Partners NEW! Deadline: 5pm, April 15, 2016			X	X	X	X				General Public, Private Sector
Clean Diesel Funding Assistance Program FY 2016 NEW! /air/Deadline: 3pm, April 26, 2016	X	X	X	X	X	X				Public Sector

CLEAN CITIES IN TEXAS

Austin Area

Lone Star Clean Fuels Alliance
Stacy Neef

www.lonestarcfa.org

Dallas-Fort Worth Area

Dallas-Fort Worth Clean Cities
Pamela Burns

www.dfwcleancities.org

Houston Area

Houston-Galveston Clean Cities
Shelley Whitworth

www.houston-cleancities.org

San Antonio Area

Nicholas Jones
Alamo Area Clean Cities

www.aacog.com/cleancities



U.S. Department of Energy

DFW CLEAN CITIES

Vision Statement:

Leading the region in petroleum and emissions reduction measures to improve air quality and increase energy security.

Mission Statement:

DFW Clean Cities is a locally-based, public/private partnership that seeks to advance energy security, protect environmental and public health, and stimulate economic development by promoting practices and decisions to reduce petroleum consumption and improve air quality, primarily in the transportation sector.

Goals:

Facilitate Use of Alternative Fuel Vehicles and Supporting Infrastructure
Accelerate Sales of Electric and Hybrid Electric Vehicles
Promote Informed Consumer Choice on Fuel Economy
Encourage Use of Idle Reduction Strategies



DFW CLEAN CITIES

Free Stakeholder Membership

Fuel-Specific Subcommittees

Monthly E-Newsletter and other Communications

Vehicle/Station Decals

Access to Stakeholder Directory, Vendor Directory,

Downloadable Resources

Discounted Event Registration

Presentations and Recognition

Local Staff Support and Funding Assistance

Stakeholder Expectations

Attend at Least 1 Meeting and 1 Event per Year

Completed Annual Report

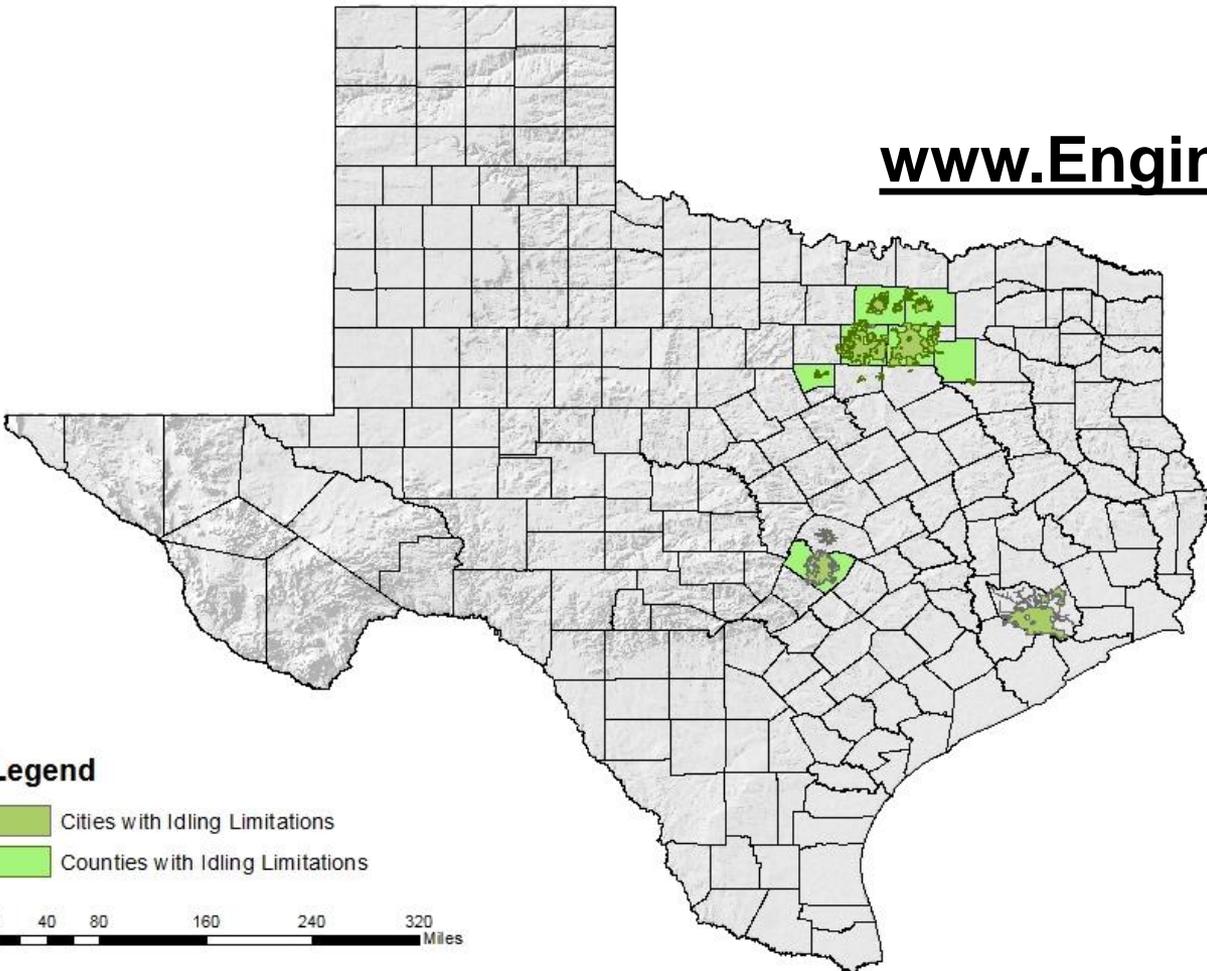
Adopt Clean Fleet Policy



IDLING REGULATION RESOURCES

Texas Cities and Counties with Idling Restrictions

www.EngineOffNorthTexas.org



Legend
Cities with Idling Limitations
Counties with Idling Limitations

0 40 80 160 240 320 Miles

SMARTER PROGRAM



SMARTER

Saving Money and Reducing Truck Emissions

SMARTER PROGRAM

SMARTER



Saving Money and Reducing Truck Emissions

Regional “One-Stop Shop”
Education, Outreach/Promotion Assistance



Dallas-Fort Worth
CLEAN CITIES

A “Win-Win” for the Industry and Region

SMARTER TECHNOLOGY STRATEGIES



SmartWay Verified Technologies

Aerodynamics

Low Rolling Resistance Tires

Idling Reduction

Retrofits

SmartWay Tractors

SmartWay Trailers

Other Fuel Saving Strategies

Alternative Fuels

Engine Repower

Speed Management Policies

Trailer Strategies

Weight Reduction Strategies

GET INVOLVED: Vendors

Participate in SMARTER Vendor Directory

Qualifications:

- Sell SmartWay-Verified Technologies
- Complete Information Form
- Provide Voluntary Information on SMARTER Assisted Sales



Benefits

- Listing Provided During Outreach
- Integration into DFW Clean Cities as Stakeholder & on Vendor Directory

NOTE: Participation Does Not Represent, nor Imply Endorsement or Recommendation By NCTCOG

Encourage Customers to Join Local Initiatives

Consider a SMARTER/DFW Clean Cities Sponsorship

DIRECTORY PARTICIPANTS

Cantwell Power Solutions - Aerodynamic Devices, Idling Control Strategies

Centramatic - Idling Control Strategies, Tire Technology

Convoy Servicing Company - Idling Control Strategies, Retrofits, Trailer Strategies

IdleAir - Idling Control Strategies

MHC Kenworth - Aerodynamic Devices, Advanced Lubricants, Emission Control Devices, Fuel Options, Idling Control Strategies, Retrofits, Tire Technology, Trailer Strategies

Rush Truck Centers - Dallas, Fort Worth - Aerodynamic Devices, Emission Control Devices, Fuel Options, Idling Control Strategies, Retrofits, Tire Technology, Trailer Strategies

Shorepower Technologies - Idling Control Strategies

Utility Trailer of Dallas, Inc. - Aerodynamic Devices, Advanced Lubricants, Trailer Strategies



EPA SMARTWAY PROGRAM

Smart Business for Everyone



Represents Environmentally Cleaner, More Fuel-Efficient Transportation Options

Identifies Products and Services Which Reduce Transportation-Related Emissions

Signifies Partnership Among Government, Business, and Consumers

Offers Solutions for Any Fleet
Technology Strategies
Operational Practices
Business Partnerships
Intermodal Shipping



EPA SMARTWAY PROGRAM

Why Get Involved?



Reduce Operating Costs

Enhance Public Image

Improve Environmental Quality

Protect Public Health

Increase Partnership Opportunities

Utilize Voluntary Strategies

Ensure Economic Vitality

An advertisement for the EPA SmartWay program. The top half shows a white semi-truck with 'US EPA Certified SmartWay' branding on its trailer, reflected in a rearview mirror. Below the mirror, a green and white SmartWay leaf-shaped air freshener hangs from a string. The background is a soft-focus outdoor scene with greenery and a blue sky.

Reflects Well.
(And helps keep the air clean, too.)

Let's face it, anytime your fleet can boost fuel efficiency by 10% to 20%, it reflects well on you and your bottom line. U.S. EPA certified SmartWay® Tractors and Trailers allow you to do just that. You can also display the SmartWay certification mark, a symbol of environmental distinction, which also reflects well on you. The SmartWay leaf indicates to both industry and the public that you operate the cleanest and most efficient trucks and equipment available today.

To learn more, visit www.epa.gov/smartway.

The official logo of the United States Environmental Protection Agency (EPA).The SmartWay logo, featuring a stylized green leaf with a white road winding through it, and the text 'US EPA Certified SmartWay' to its right.

FOR MORE INFORMATION



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Websites

www.nctcog.org/aqfunding
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www.dfwcleancities.org

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CleanCities@nctcog.org