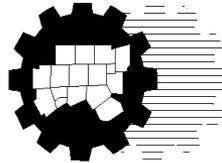


LOCAL AND REGIONAL AIR QUALITY PLANNING INITIATIVES

Texas Aggregates & Concrete Association

September 27, 2011



Chris Klaus, Senior Program Manager
North Central Texas Council of Governments
Transportation Department

AIR QUALITY PLANNING INITIATIVES

Criteria and Other Pollutants

National Ambient Air Quality Standards

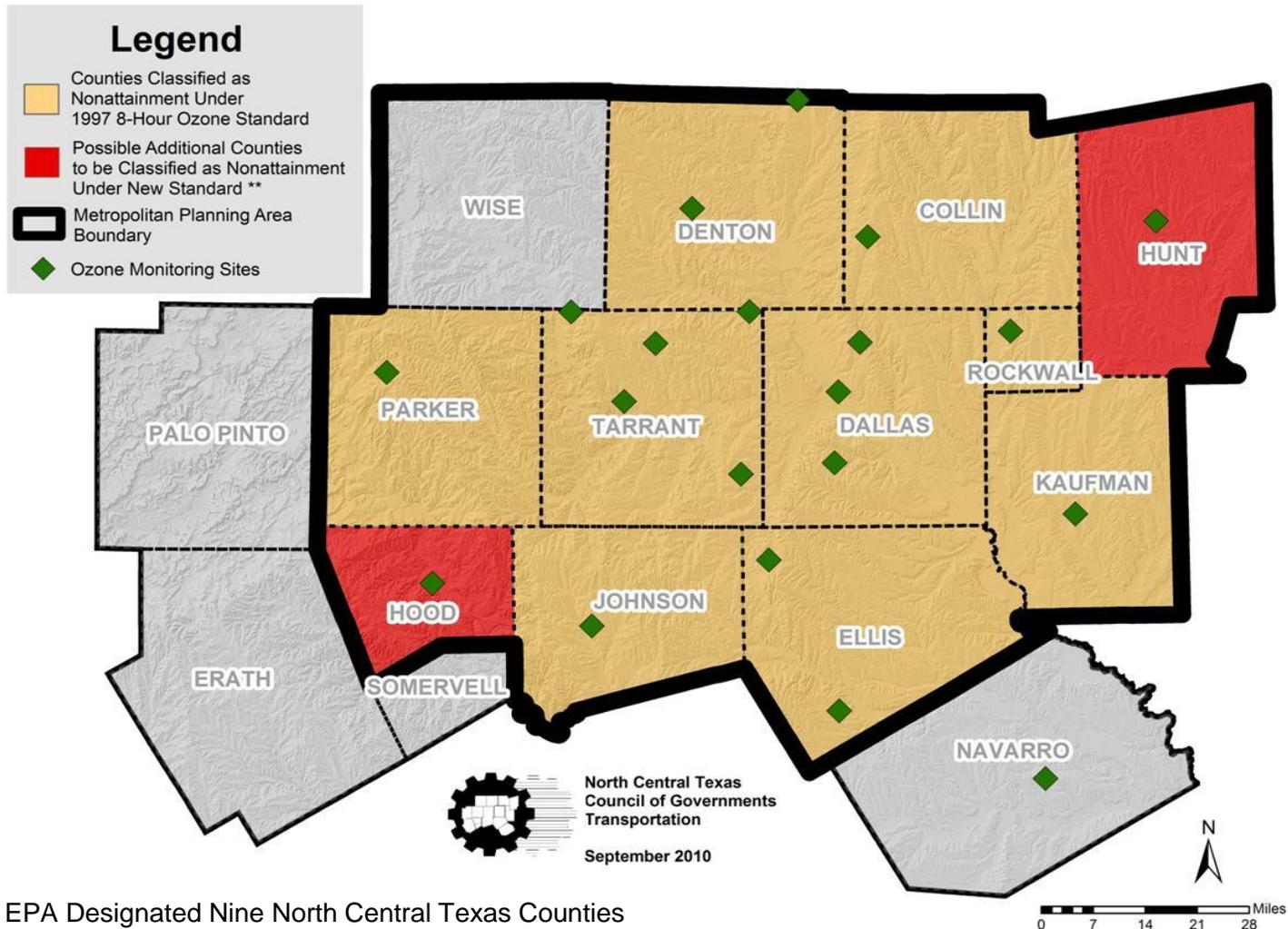
- X** **Ozone**
- X** **Lead**
- Carbon Monoxide**
- Nitrogen Oxides**
- Particulate Matter**
- Sulfur Dioxide**

Possible Future Standards

**Greenhouse Gas Emissions
(i.e. Carbon Dioxide)**

AIR QUALITY PLANNING INITIATIVES

8-Hour Ozone Nonattainment Area*



* April 15, 2004 – EPA Designated Nine North Central Texas Counties Nonattainment for Ozone (8-Hour Ozone Standard).

** January 2010 – EPA Proposed to Revise 8-Hour Ozone Standard to 60-70 ppb. EPA Recommendations To Be Determined

8-HOUR OZONE HISTORICAL TRENDS

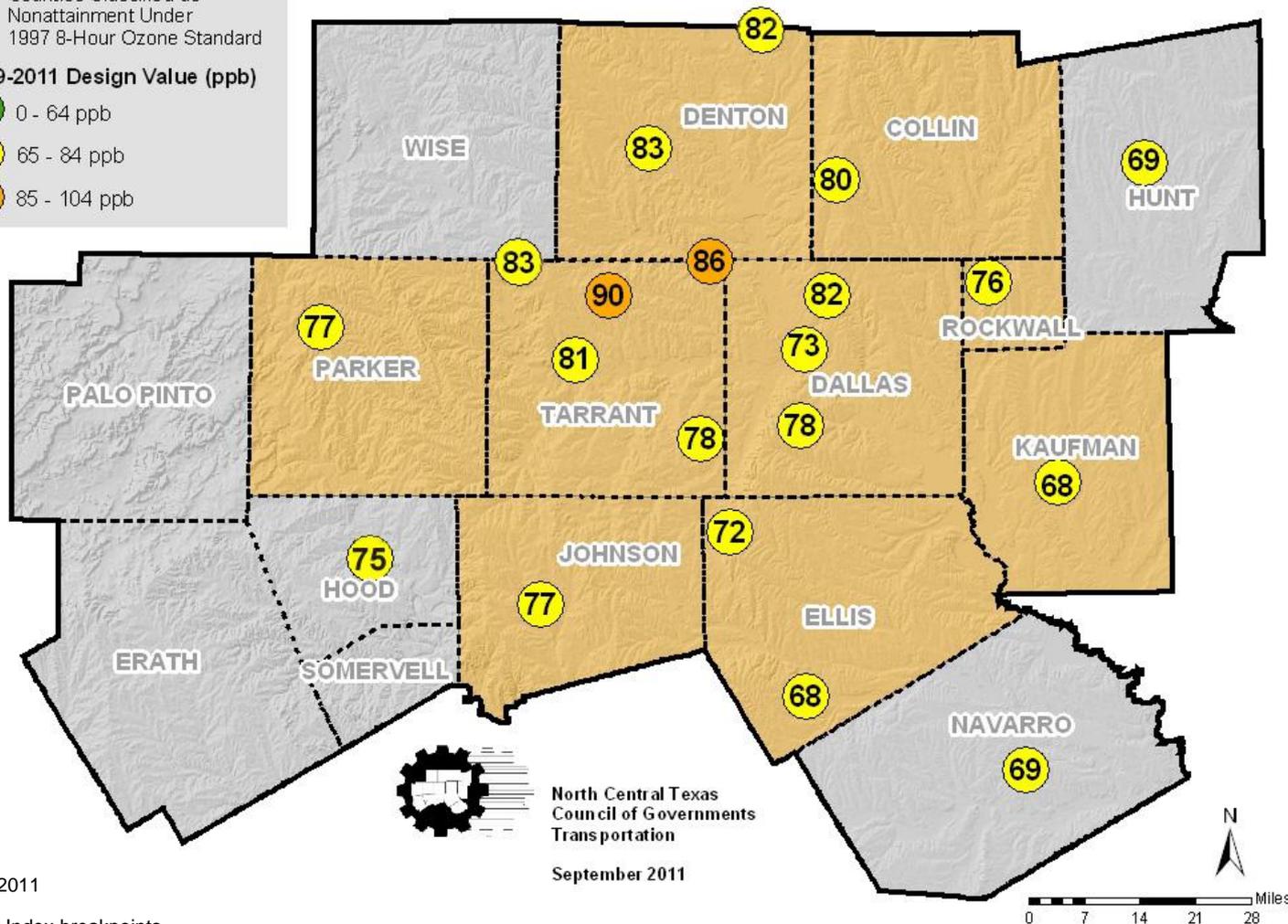
Design Values

Legend

Counties Classified as Nonattainment Under 1997 8-Hour Ozone Standard

2009-2011 Design Value (ppb)

- 0 - 64 ppb
- 65 - 84 ppb
- 85 - 104 ppb



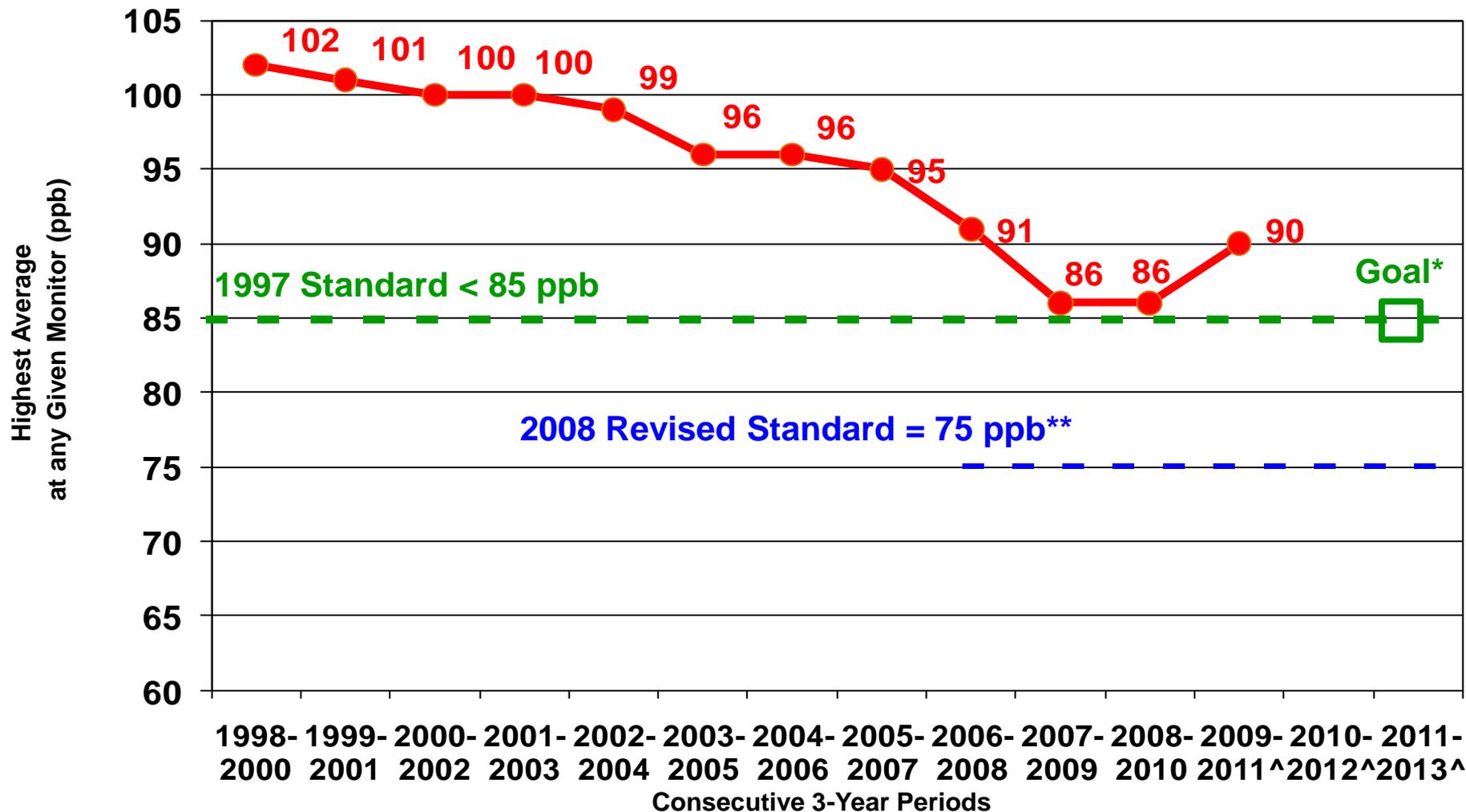
Current as of September 1, 2011

Colors represent Air Quality Index breakpoints

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).

8-HOUR OZONE HISTORICAL TRENDS

DFW Nonattainment Area



* 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).

[^] Not a full set of data. Current as of August 29, 2011

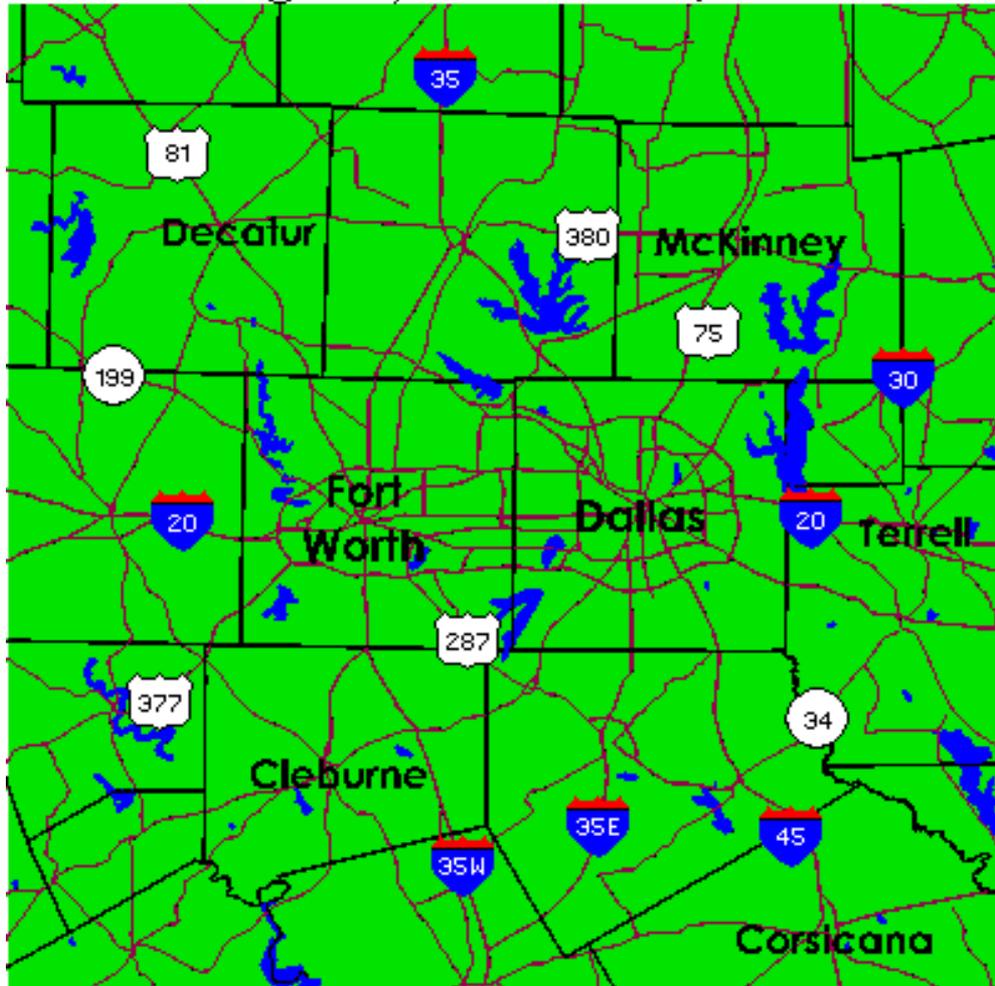
** Ozone Standard was revised in 2008 to 75 ppb. Designations under this standard are currently on hold until EPA makes recommendations for reconsideration (see ***).

*** Ozone Standard is currently under reconsideration by the EPA and will likely be revised in Summer/Fall 2011 to between 60 and 70 ppb.

REGIONAL OZONE CONCENTRATIONS

Maximum Daily 8-Hour Average Was 103 ppb

North-Central Texas
Aug 28, 2011 7 AM

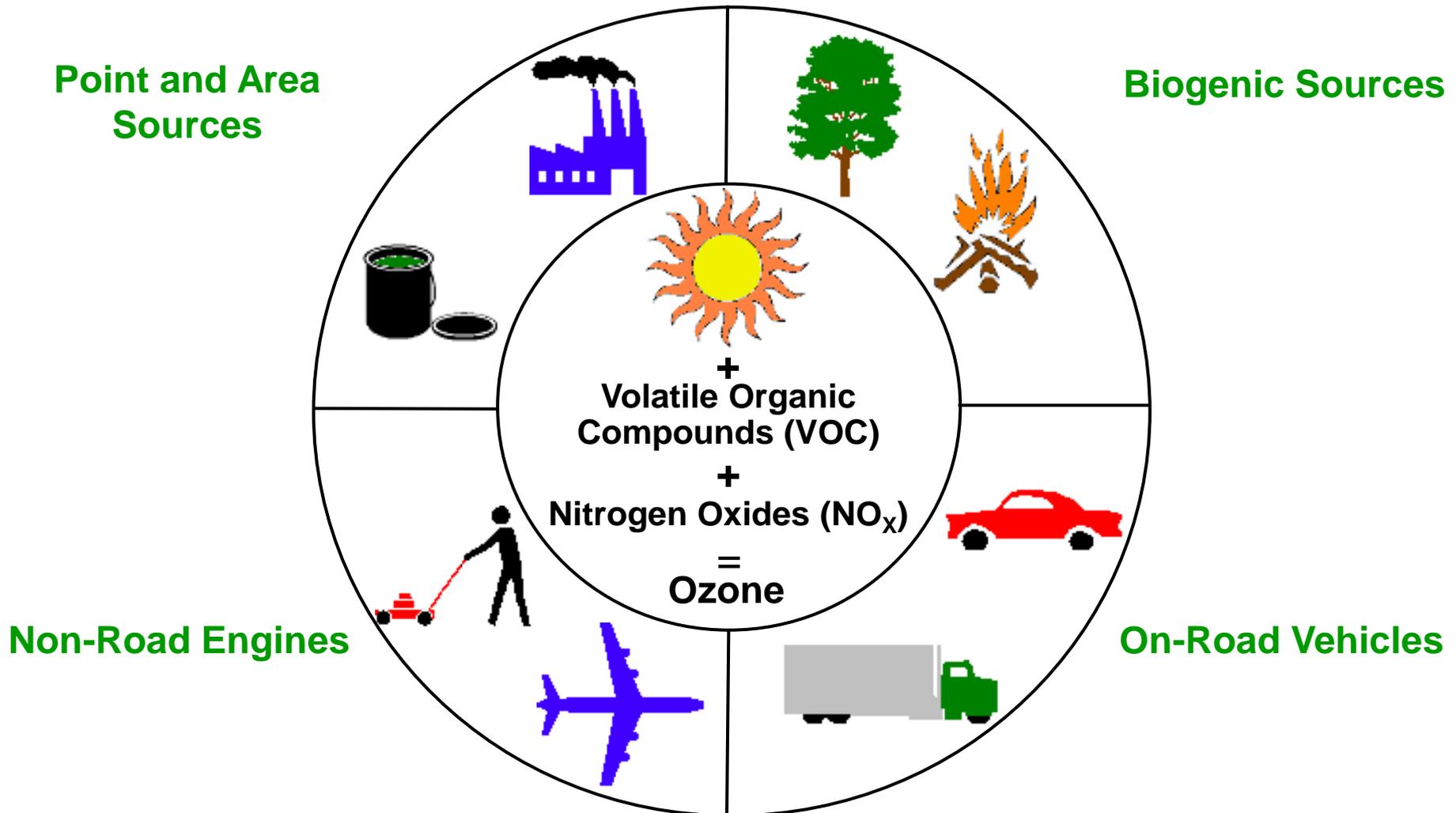


Air Quality



HOW IS OZONE FORMED?

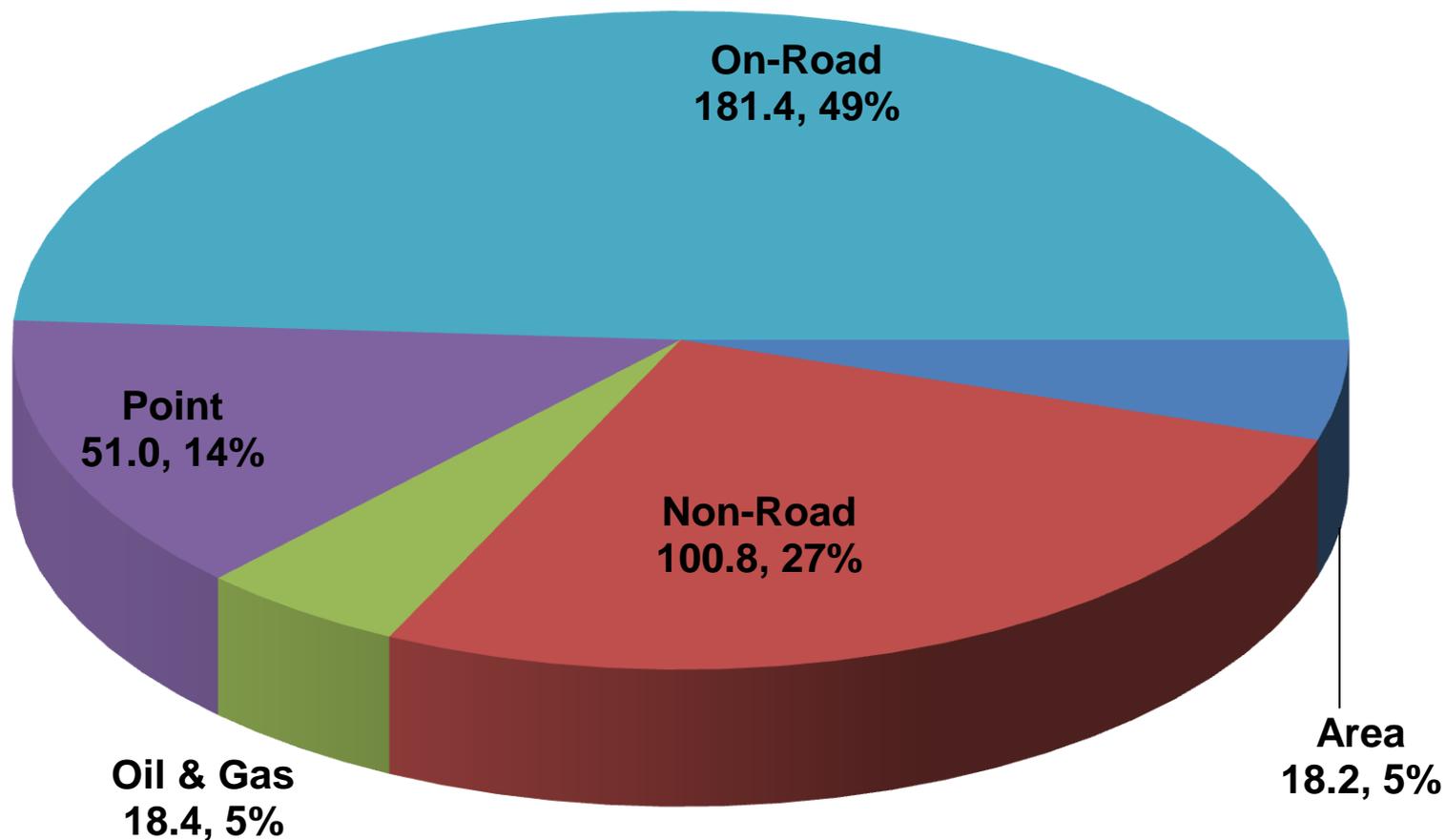
Emission Source Categories



Optimum conditions for the formation of ozone include high temperatures and low winds. As a result, ozone season spans from March 31 through October 31.

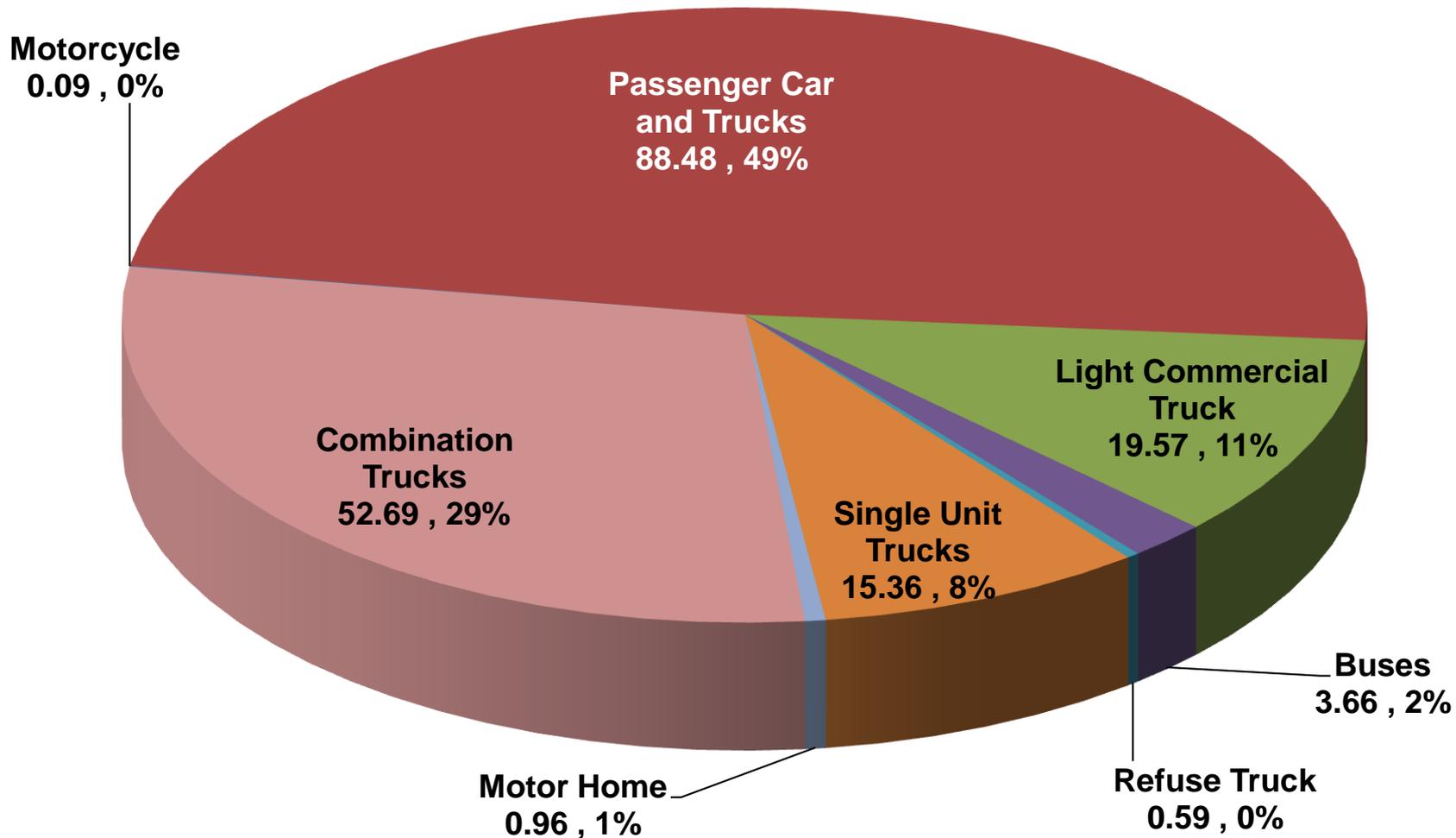
AIR QUALITY PLANNING INITIATIVES

NO_x Emissions (tons/day)



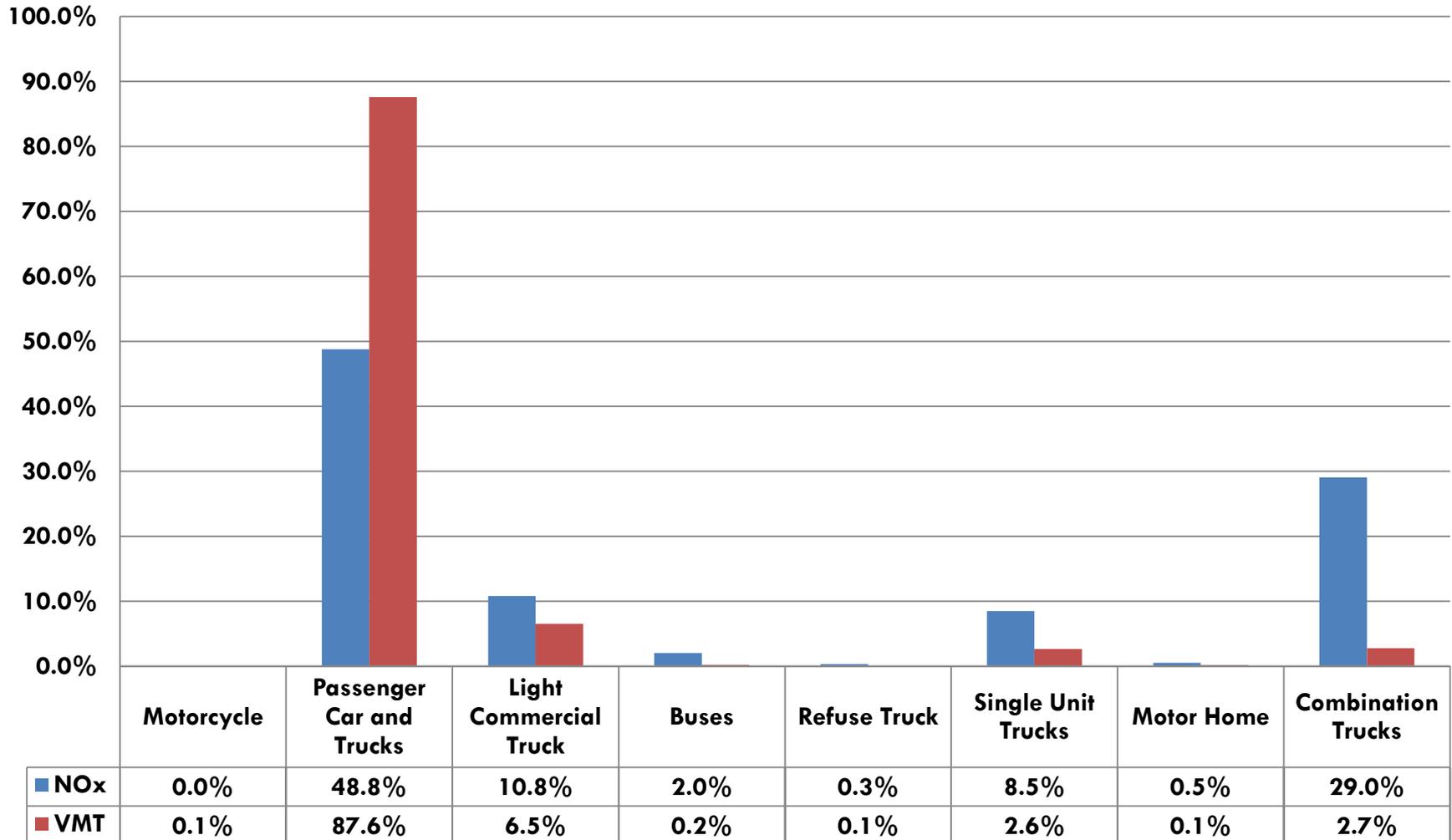
AIR QUALITY PLANNING INITIATIVES

On-Road NO_x Emissions Sources (tpd)



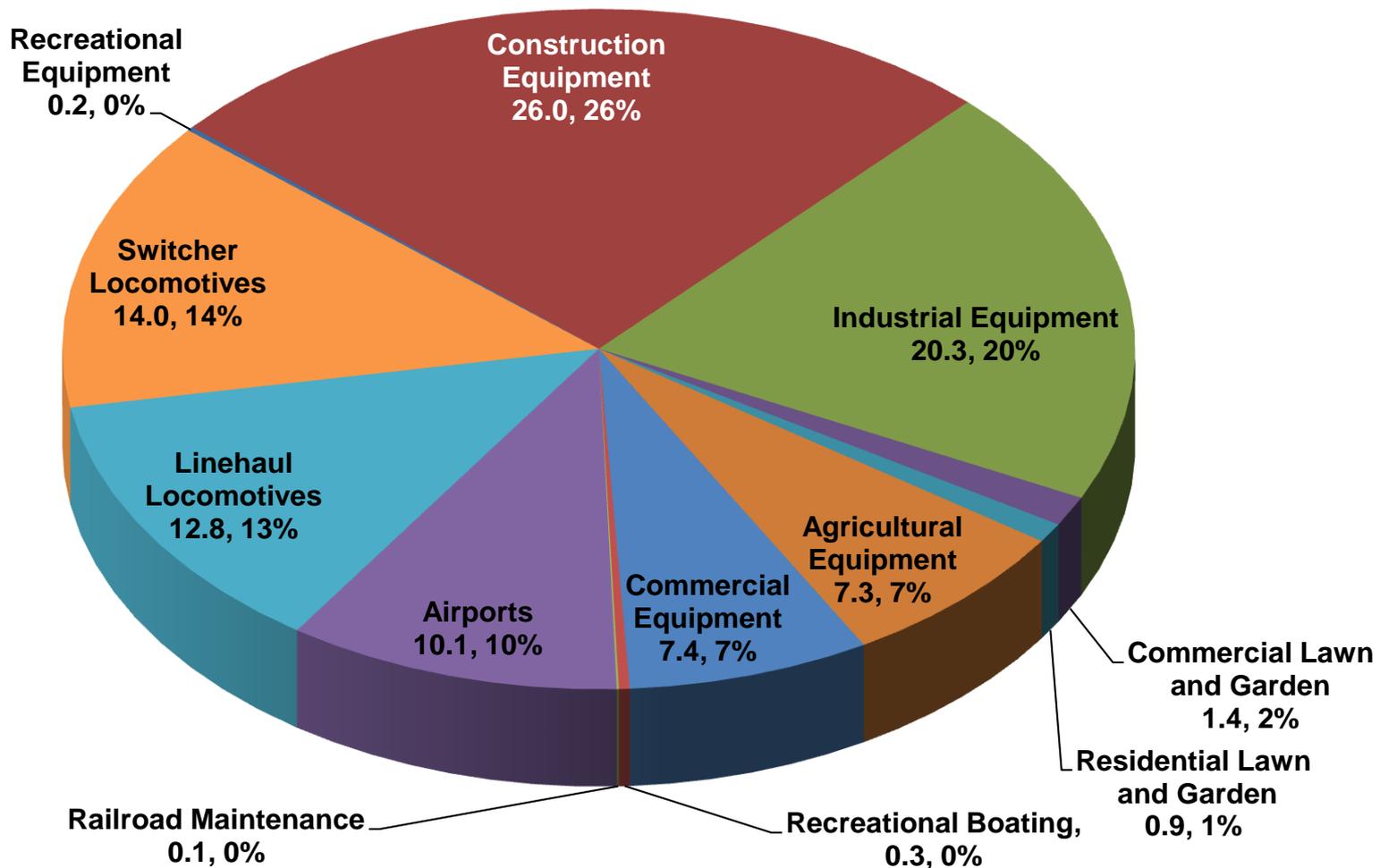
AIR QUALITY PLANNING INITIATIVES

On-Road Emissions & VMT by Sources

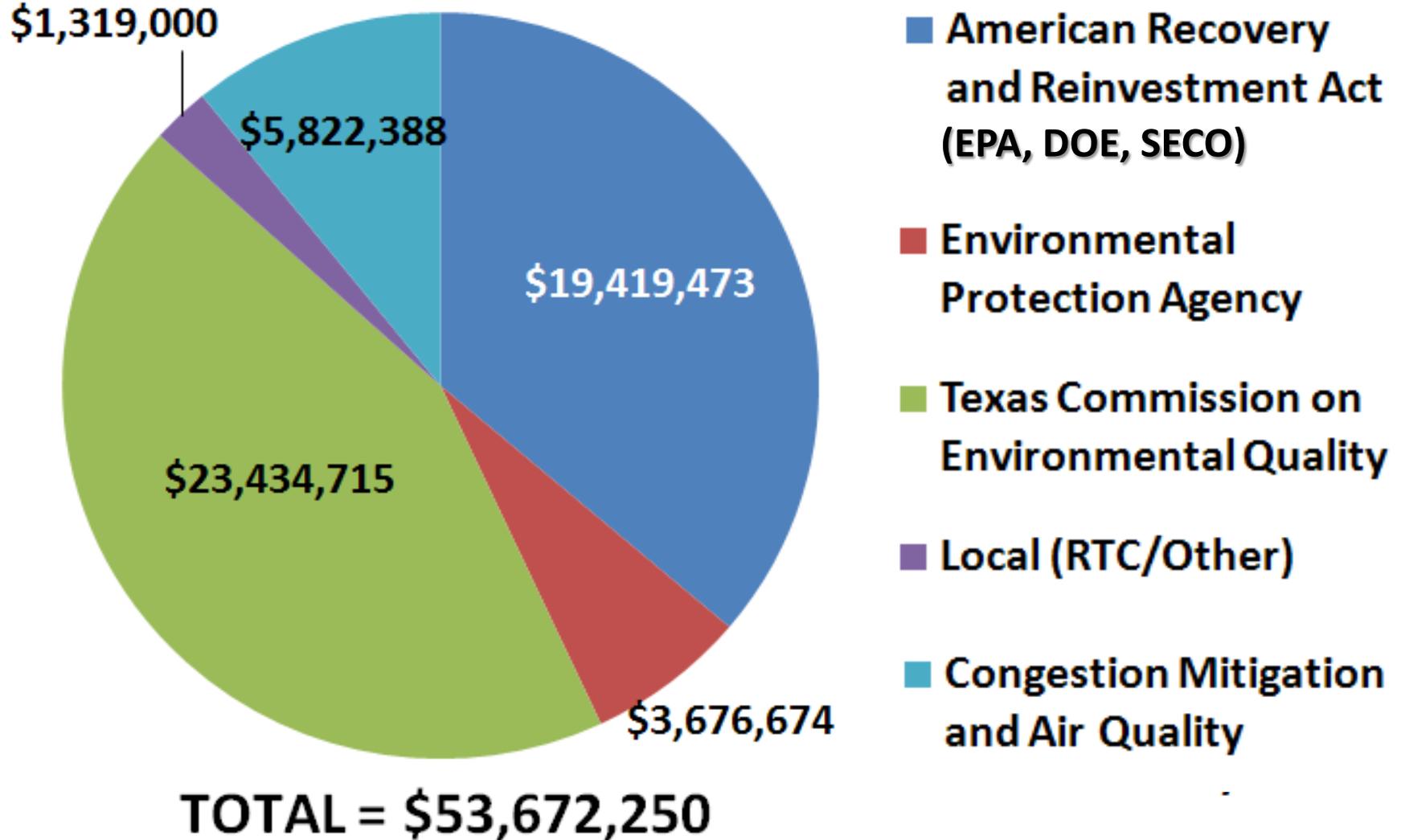


AIR QUALITY PLANNING INITIATIVES

Non-Road NO_x Emissions (tpd)



AIR QUALITY FUNDING SECURED BY NCTCOG*



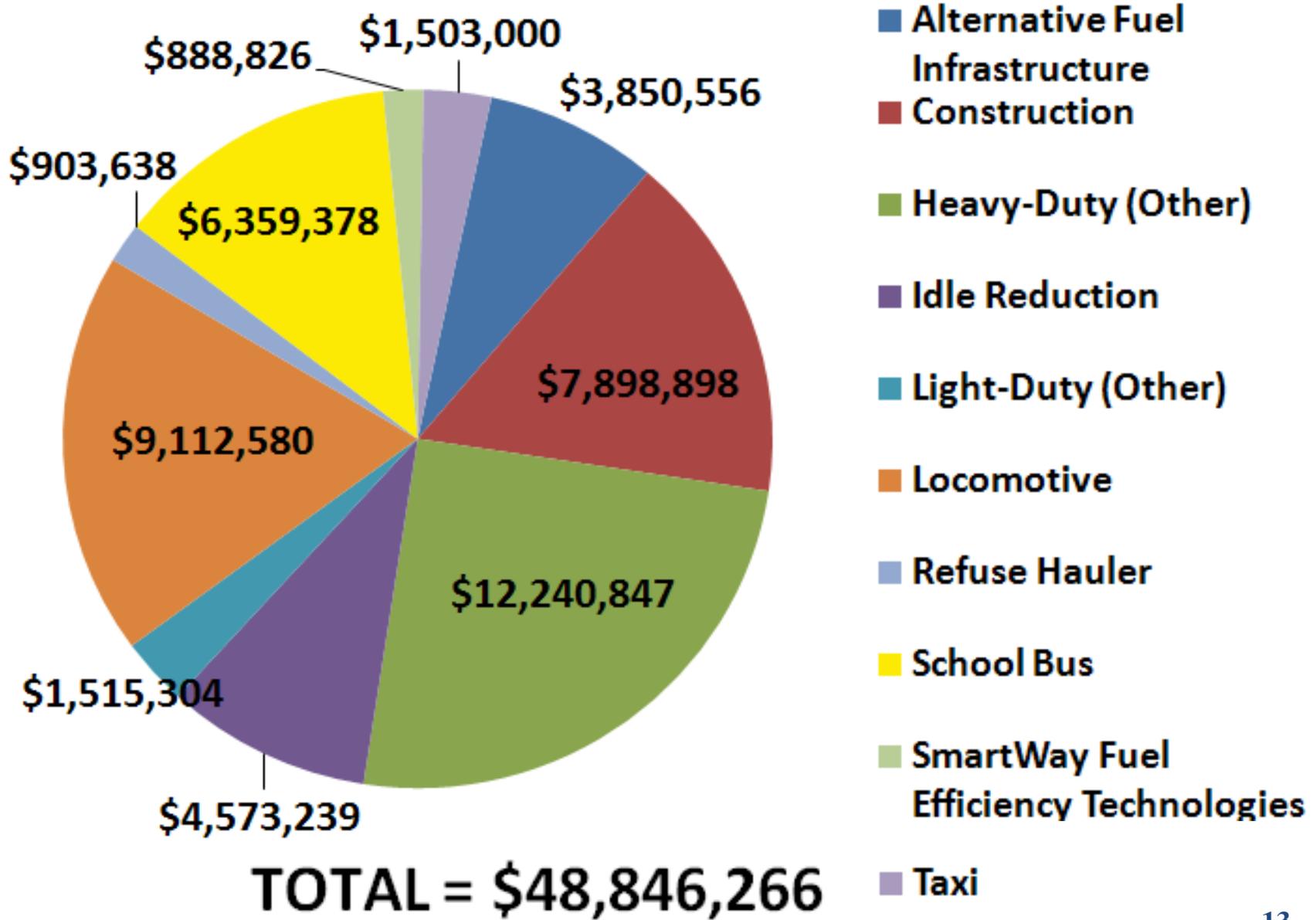
*Sources of funding awarded to NCTCOG to subgrant through various call for projects; last updated August 2011

EPA – Environmental Protection Agency

DOE – Department of Energy

SECO – State Energy Conservation Office

FUNDING SUBAWARDED*



CLEAN FLEET VEHICLE POLICY

Goal to Minimize Emissions Among Public Sector Fleet Vehicles

103 Adopting Entities to Date

Principles Applicable to All Fleets

Impact on Funding Requests

Potential Consideration in General Funding Decisions

Criteria for Clean Vehicle Funding

Comprehensive in Nature

Acquisitions

Operations and Maintenance

Annual Reporting

Fleet Benefits

Efficient Operations

Reduced Emissions

Consistent Fleet Goals

Public Recognition



DIESEL IDLING REDUCTION PROGRAM

Program Goals

Reduce NO_x Emissions from Heavy-Duty Diesel Idling
Incentivize Investment in Idle-Reduction Technologies

Funding Sources

Federal CMAQ And EPA Funds,
TCEQ Texas Emissions Reduction Plan Funds

Grant Opportunities

3 Calls for Projects
~\$2.2 Million Awarded
5 Infrastructure Sites
39 On-Vehicle Idle Reduction Activities
743.9 Tons NO_x and 10.0 Tons PM Reduced
~4.3 Million Gallons Diesel Conserved

Geographic Focus

Dallas-Fort Worth Ozone Nonattainment Area
Blue Skyways Collaborative Corridor



COLLABORATIVE PROGRAMS

Blue Skyways Collaborative

Technical Committee Participation
Knowledge Sharing
Grant Funding Opportunities



BLUE SKYWAYS
COLLABORATIVE

SmartWay Transport Program

Partnership Promotion
Education and Outreach
Partner Recruitment and Recognition
Partner Support and Technical Assistance
Demonstration Programs
Integration Into Regional Programs



SmartWay News
SmartWay Newsletter, Volume 1
Inaugural Edition
Summer 2007

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Welcome
The SmartWaySM Transport Partnership and the North Central Texas Council of Governments

The North Central Texas Council of Governments (NCTCOG) joined the SmartWaySM Transport Partnership as an Affiliate in October 2006. Currently, North Texas exceeds ozone standards set by the U.S. Environmental Protection Agency (EPA). The region must reduce these levels in order to ensure the health and well-being of its citizens and reduce the risk of economic sanctions. Participation in the SmartWay Transport Partnership is one voluntary measure that NCTCOG is taking to help improve the region's air quality and reach acceptable levels of ozone. As an affiliate, NCTCOG will promote EPA programs in the region and will strive to provide education and resources to interested parties.

SmartWay seeks to reduce emissions.

that seeks to increase fuel efficiency and reduce operating costs among freight carriers. It promotes best practices in operations as well as the use of advanced technologies that can increase fuel efficiency and/or reduce emissions.

About NCTCOG
NCTCOG is a voluntary association of local governments established in 1966 to assist local governments in planning for common needs, cooperating for mutual benefit, and coordinating for sound regional development. Since 1974, NCTCOG has served as the Metropolitan Planning Organization (MPO) for transportation in the Dallas-Fort Worth Metropolitan area. The Regional Transportation Council (RTC) is the policy body for the MPO and oversees regional transportation planning. Due to the significant role transportation emissions play in ground-level ozone formation, NCTCOG is also responsible for implementing a variety of air quality programs.

About SmartWay
The SmartWay Transport Partnership, established by the EPA in 2003, is a voluntary, public-private partnership

SmartWay
Transport Partnership
U.S. ENVIRONMENTAL PROTECTION AGENCY

www.nctcog.org/smartway

HEAVY-DUTY IDLING RESTRICTIONS

Regional Implementation

RTC Endorsement of Policy

Local Jurisdiction Adoption of Ordinance/Court Order

Local Jurisdiction Entrance into North Texas MOA

Local Jurisdiction Development of Enforcement Plan

Current Adoption Status

22 Municipalities, 4 Counties to Date

Regional Education and Outreach

Anti-Idling Signs

Driver Education Brochures

Idling Complaint Hotline

(1-877-NTX-IDLE)

Anti-idling Website

www.EngineOffNorthTexas.org



CLEAN CONSTRUCTION SPECIFICATION

Clean Construction Demonstration Project

Voluntary Incorporation of Clean Construction Specification

Local Government Participation to Collect Data

Financial Implications and Emissions Impacts

Ongoing Through End of 2011

Potential Future Policy

Publicly Owned and Contracted Equipment

Specification for Engines and Equipment Operation

Incorporation into Contracting Procedures

Goals

Encourage Use of Cleaner Equipment

Encourage Use of Existing Incentives

Statewide Coordination

Goal to Ensure Consistency of Standard



TEXAS EMISSIONS REDUCTION PLAN (TERP) PARTNERSHIP

General TCEQ Funding Program

Public and Private Fleet Funding

Replace, Repower, Retrofit Heavy-Duty Vehicles and Equipment

Idle Reduction

Cost-Effectiveness Up to \$15,000 Per Ton NO_x

North Texas Emissions Reduction Grant Program

Third-Party NCTCOG Grant

\$22.8 Million Received for FY 06-11

Over 3,000 Tons NO_x Reduced

Over Life of Activities

Fleet Focus

Refuse Haulers

Local Government Fleets

Construction Equipment

Idle Reduction Technology



DALLAS-FORT WORTH CLEAN CITIES

**National Program Created and Supported by the
U.S. Department of Energy**

Designated in July 1995

**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**

**Host Quarterly DFW Clean Cities Technical Coalition Meetings,
Clean Vehicle Events, and an Annual Advancing the Choice
Event**

**Create and Distribute the Electronic Newsletter
*Clean Cities News Flash***



LOCAL AND REGIONAL AIR QUALITY PLANNING INITIATIVES

Programs: www.nctcog.org/Trans/Air

Funding: www.nctcog.org/AQFunding