

# **ENHANCED REMOTE SENSING PERFORMANCE BASED PILOT PROGRAM**

**26<sup>th</sup> Annual Clean Air Conference**

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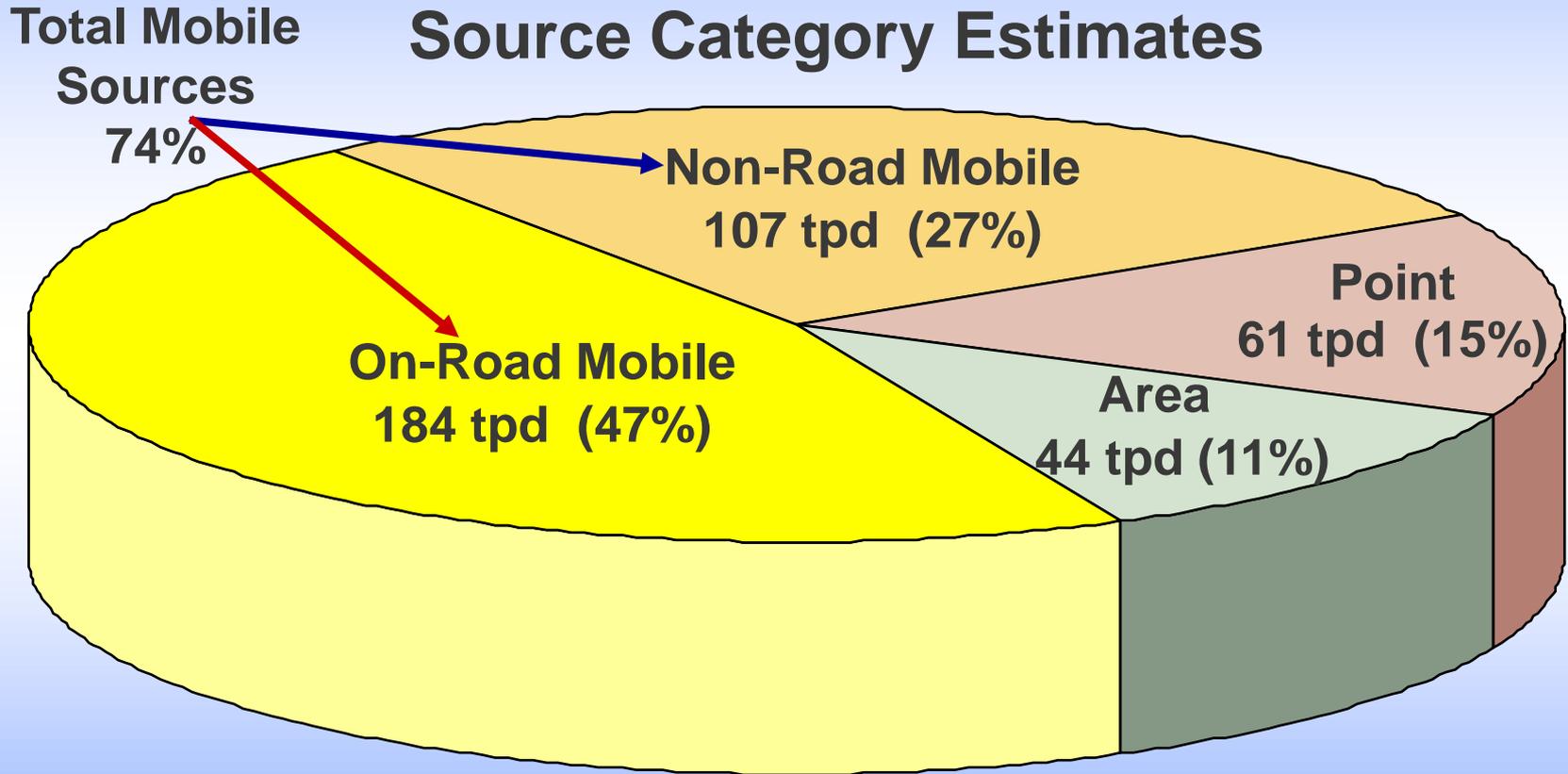
**North Central Texas Council of Governments  
(NCTCOG)**

**September 29, 2010**



# DFW NONATTAINMENT AREA

## 2009 Nitrogen Oxide (NOx) Emission Inventory



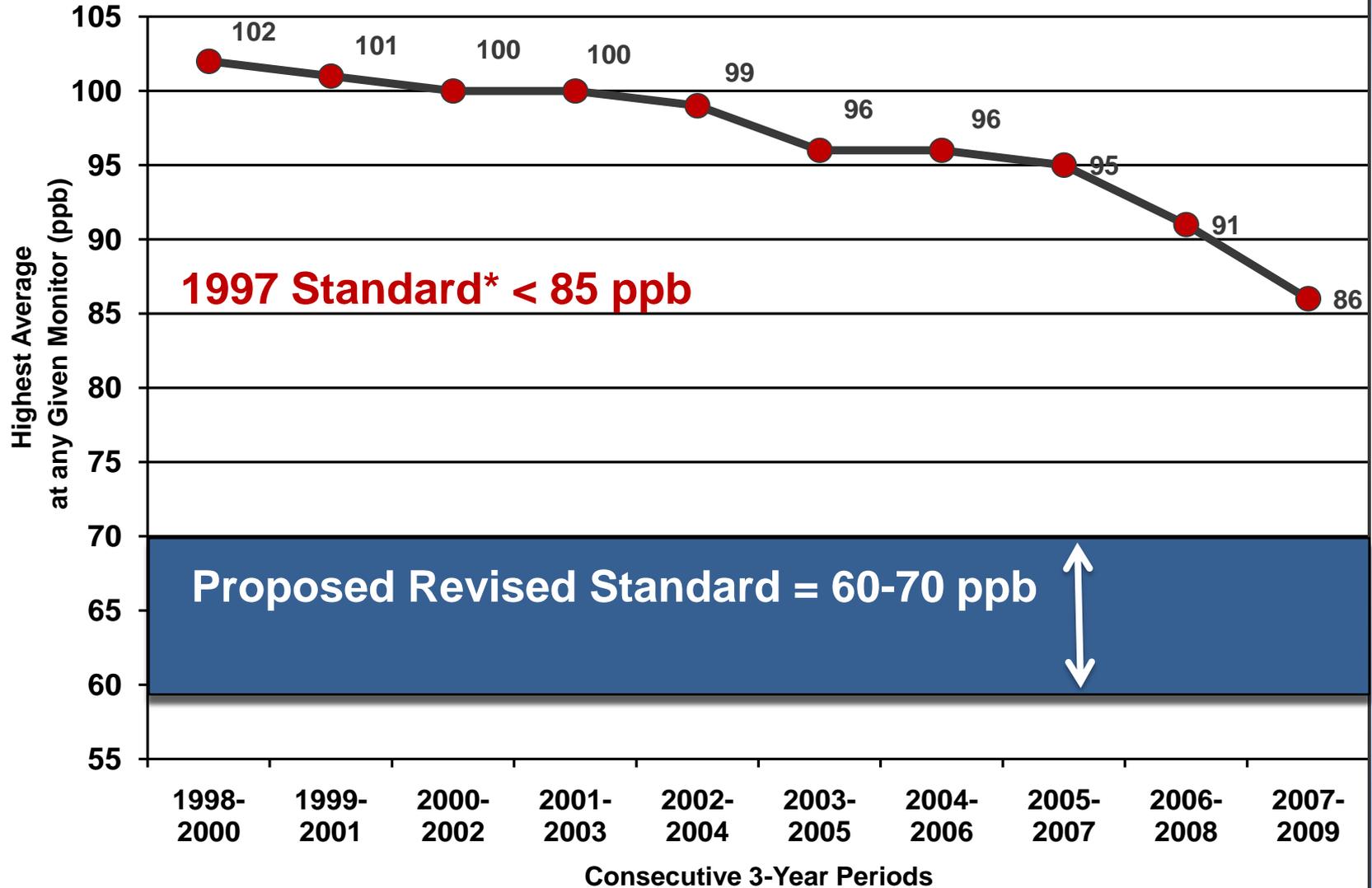
**Total NOx = 396 Tons Per Day**



# 2009 OZONE SEASON UPDATE

## North Central Texas 8-Hour Ozone Historical Trend

North Central Texas Council of Governments



\* 2010 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).



# RECONSIDERATION OF 2008 OZONE STANDARD

## Proposed Revision

### Milestone

### Date

Public Hearings

February 2 & 4, 2010

Final Rule

October 29, 2010

State Designation Recommendations

January 2011

Final Designations by EPA

August 2011

State Implementation Plans Due

December 2013

Attainment Dates

2014-2031



# WHAT IS REMOTE SENSING?

**A Device to Measure Vehicle Emissions**



# HISTORY OF REMOTE SENSING

**2002 – Control Strategy requirement identified in Texas’s State Implementation Plan (SIP)**

**2002 – Texas Department of Public Safety (TXDPS) contracts with Environmental Systems Products, Inc. to conduct remote sensing in all nonattainment areas in Texas**

**2009 – TXDPS reduced the frequency and number of vans conducting remote sensing**

**2010 – NCTCOG begins Enhanced Remote Sensing Pilot Program in North Central Texas nine nonattainment counties**



# **WHAT MAKES THIS PILOT PROGRAM DIFFERENT?**

**Tougher emissions standards utilized for HC, CO and NOx cut points;**

**Collects data on high-emitting light-duty diesel vehicles;**

**Collect data on smoking vehicles; and**

**Utilizes the NCTCOG Emissions Database to determine the compliance rate of vehicle registration and emissions inspection for flagged vehicles.**



# PILOT PROGRAM GOALS

- Improve air quality in North Central Texas;
- Capture a greater number of valid smoking and high-emitting vehicles;
- Increase awareness and participation in the Regional Smoking Vehicle Program and the AirCheckTexas Drive a Clean Machine Program;
- Provide a baseline for high-emitting diesel vehicles; and
- Provide support for new and more stringent legislation.



# PERFORMANCE MEASURES

**Percentage of vehicle owners:**  
driving without a current, passing inspection certificate;  
not responding to notification letter;  
who repaired emissions and/or smoking vehicle problems; and/or  
obtained a passing, valid emissions certificate after receiving notification letter.

**Percentage of diesel vs. gas vehicles identified by remote sensing equipment.**

**Percentage of notification letters sent back “Return to Sender”.**



# PILOT PROGRAM RESULTS

## May – August 2010 Data Collection

Category	Total
Flagged High-Emitting Vehicles	2,370
Flagged Smoking Vehicles	88
Flagged Light-Duty Diesel Vehicles	47
Flagged Vehicles for NOx	664
Flagged Vehicles for CO	1,000
Flagged Vehicles for HC	596



# PILOT PROGRAM RESULTS

## May – August 2010 Data Collection

Category	Total
Flagged Vehicles with Expired Inspection	430
Percentage of Vehicles with Expired Inspection	21%
Flagged Vehicles with Expired Registration	173
Percentage of Vehicles with Expired Registration	8%
Flagged Vehicles Failing Last Inspection	62



# REMOTE SENSING

## Possible Future Pilot Programs

**Conduct a pilot program to determine the effectiveness of:**

**Remote sensing technology implemented at state weigh stations to detect high-emitting or smoking heavy-duty diesel vehicles;**

**Mailing out expired inspection and registration certificate notices to vehicles identified by a remote sensing van; or**

**A clean screen program in Texas.**





# **QUESTIONS?**

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