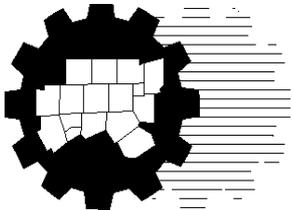


Update on North Texas Clean Air Steering Committee, NTCASC Oil and Gas Task Force, and State Implementation Plan

**City of Dallas Transportation & Environment Council Committee
September 26, 2011**



**Chris Klaus, Senior Program Manager
Air Quality Planning and Operations
North Central Texas Council of Governments**

NTCASC Background

- **Regional Air Quality Advisory Body for DFW Ozone Nonattainment Area**
 - City/County Representatives
 - Environmental Interests
 - Chambers of Commerce
 - Public/Citizen Education Representatives
- **Goal to Collaboratively Develop Recommendations to the Texas Commission on Environmental Quality (TCEQ)**
 - Control Strategies to Attain National Ambient Air Quality Standards
 - Federal Ozone Standard
 - All Emissions Sources
- **Schedule Driven by Development of State Implementation Plan (SIP)**
 - Attainment Demonstration SIP
 - Reclassification under 1997 8-Hour Ozone Standard
 - Reasonable Further Progress (RFP) SIP
- **Website:** <http://www.nctcog.org/trans/committees/ntcasc/index.asp>

Attainment Demonstration SIP

- **Demonstrates How Region Will Comply With Ozone Standard* by Attainment Deadline**
 - Targets NO_x Emissions Reductions Due to NO_x-Limited Region
 - Serious Attainment Deadline: June 15, 2013
- **TCEQ Modeling Indicates Compliance**
 - Revised Area Source Controls Under Reasonably Available Control Technology Requirements
 - Regional Design Value Must be < 85 parts per billion (ppb)
 - TCEQ Predicts All Monitors will Have Design Value <77 ppb in 2012
- **No Additional Control Strategies Explored**

Reasonable Further Progress SIP

- **Demonstrates Continued Progress in Reducing Emissions**
 - Requires 3% Reduction Per Year for Each Precursor Pollutant (NO_x and VOC)
 - Baseline Year: 2002
 - Milestone Year: 2011
- **Unable to Demonstrate Compliance with VOC Reduction Requirement Based on Existing Control Measures**

	2011 NO _x	2011 VOC	2012 NO _x	2012 VOC
Required Reductions	791.44	340.83	830.05	358.34
Creditable Reductions	859.17	263.34	912.01	296.73
Excess (+)/Shortfall(-)	67.73	-77.49	81.96	-61.61
NO _x Substitution	63.65	-63.65	61.62	-61.62
Final Excess/Shortfall	4.08	-13.84	20.34	0.01

Source: TCEQ presentation to NTCASC Oil and Gas Task Force, May 25, 2011. Based upon MOVES modeling.

- **Additional VOC Control Strategies Required**

NTCASC Oil And Gas Task Force

- **Consisted of NTCASC Members**
- **Goal to Identify Opportunities to Reduce Air Quality Impact of Oil and Gas Production in North Texas**
 - Focused on VOC Reduction Opportunities for RFP SIP
- **3 Meetings Between March and May 2011**
 - Background
 - Best Practices
 - Science
 - Recommendations
- **Website:**
<http://www.nctcog.org/trans/committees/ntcasc/OilandGas.asp>

NTCASC Recommendations

- **Review Existing Practices to Ensure Adequacy for Intended Purpose**
- **Extend Houston Area Condensate and Crude Oil Storage Tank Rule to DFW Nonattainment Area**
 - Requires 95% Control for Sources with 15 Ton Per Year (tpy) VOC Emissions
- **Formalize Oil and Gas Industry Best Practices**
 - Green Completions
 - Plunger Lifts
 - Vapor Recovery Units
 - Low-Bleed Pneumatic Valves

<http://www.nctcog.org/trans/committees/ntcasc/OGTF/052511/TCEQLtr052711.pdf>

What Is In The SIP?

- **Transportation Control Measures**
 - None Recommended
- **Voluntary Mobile Emission Reduction Strategies**
 - None Recommended
- **Extend Houston Area Condensate and Crude Oil Storage Tank Rule to DFW Nonattainment Area**
 - Requires 95% Control for Sources with 25 Ton Per Year (tpy) VOC Emissions

What Is In The SIP? (continued)

- **Weight-of-Evidence (sample list)**

- Bicycle/Pedestrian Projects
- Intersection Grade Separations
- Intersection Improvements
- Sustainable Development
- Clean Fleet Vehicle Policy
- Traffic Signal Improvements
- Truck Lane Restriction Program
- High Occupancy Vehicle Projects
- Locally Enforced Idling Restrictions
- Diesel Idling Reduction Program
- Clean Construction Demonstration Project
- Intelligent Transportation System
- Clean Vehicle/Equipment Program
- Regional Smoking Vehicle Program
- Air Quality Public Education and Communication
- High Emitting Vehicle Enforcement
- Pay-As-You Drive Insurance Pilot Program
- SmartWay™ Transport Partnership
- Blue Skyways Collaborative
- Electric Vehicles North Texas
- Rail Transit Projects
- Clean School Bus Program
- Park and Ride Projects
- Regulated Fleet Program
- Vanpools

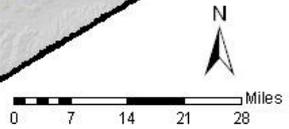
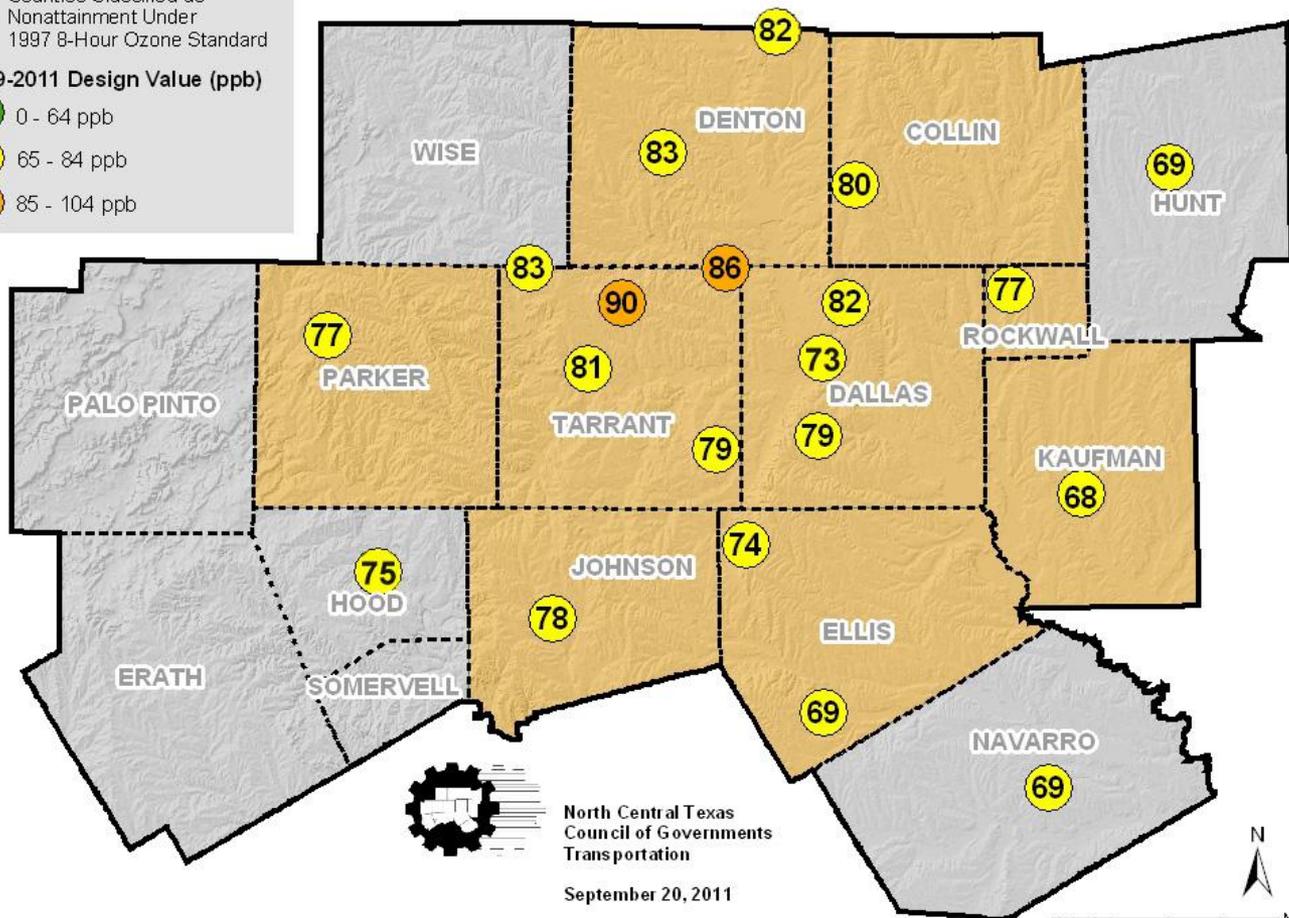
Current Ozone Status

Legend

Counties Classified as Nonattainment Under 1997 8-Hour Ozone Standard

2009-2011 Design Value (ppb)

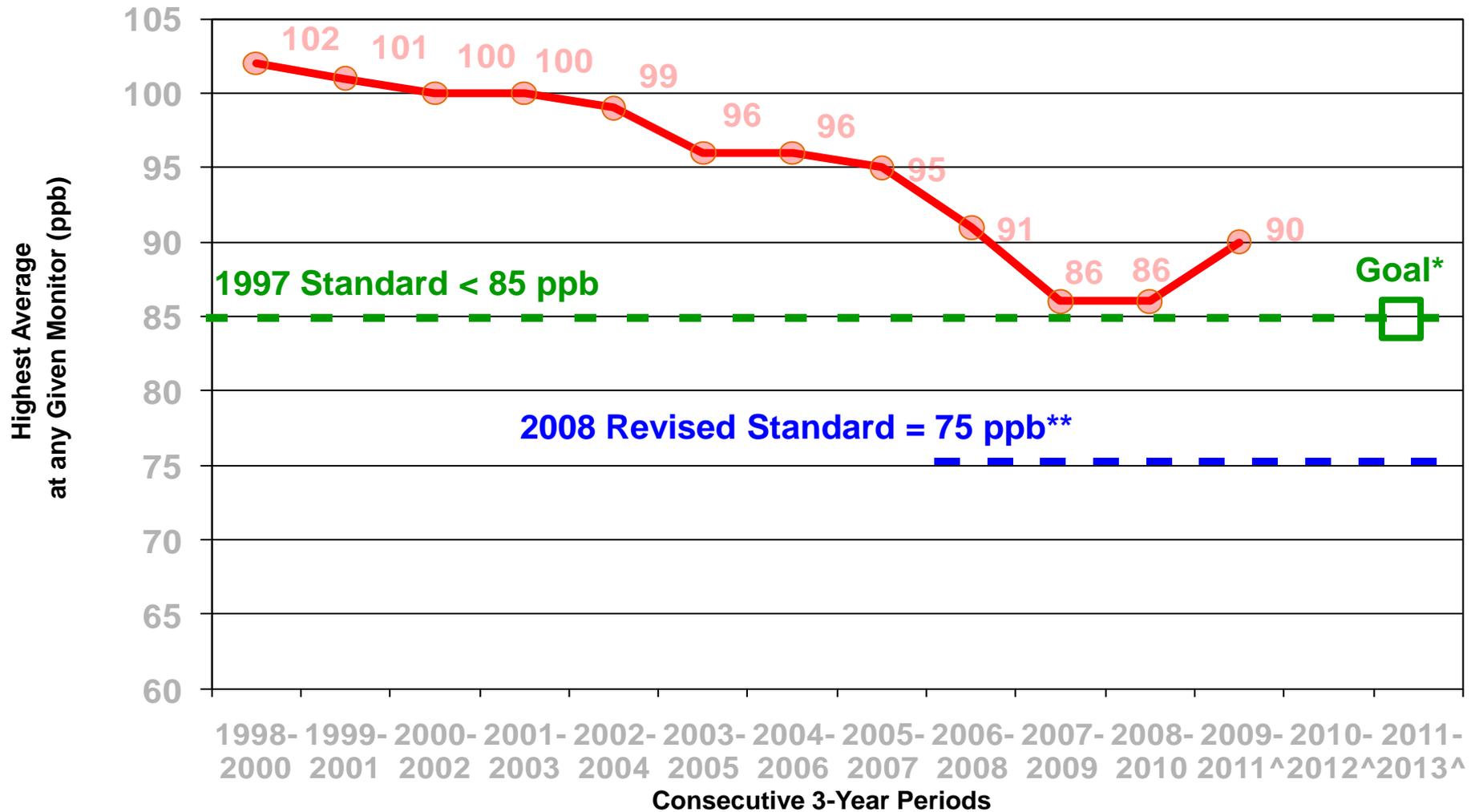
- 0 - 64 ppb
- 65 - 84 ppb
- 85 - 104 ppb



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).

Ozone Attainment Goal



* 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.

Ozone Reconsideration

March 12, 2008 – EPA Strengthened National Standards for Ground-Level Ozone (75 ppb)

September 16, 2009 – EPA to Reconsider National Standards for Ground-Level Ozone

January 6, 2010 – Proposed Revisions to National Standards for Ground-Level Ozone (60-70 ppb)

December 8, 2010 – EPA Administrator Requests More Input from Agency's Science Advisors – Due By End of July 2011

July 26, 2011 – EPA Updates Status of the Ozone Reconsideration and Will Not Issue Final Rule on July 29th

September 2, 2011 – President Obama Requests EPA to Withdraw Draft Ozone NAAQS At This Time

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