

2011 END OF OZONE SEASON

Regional Transportation Council Public Meetings

December 2011

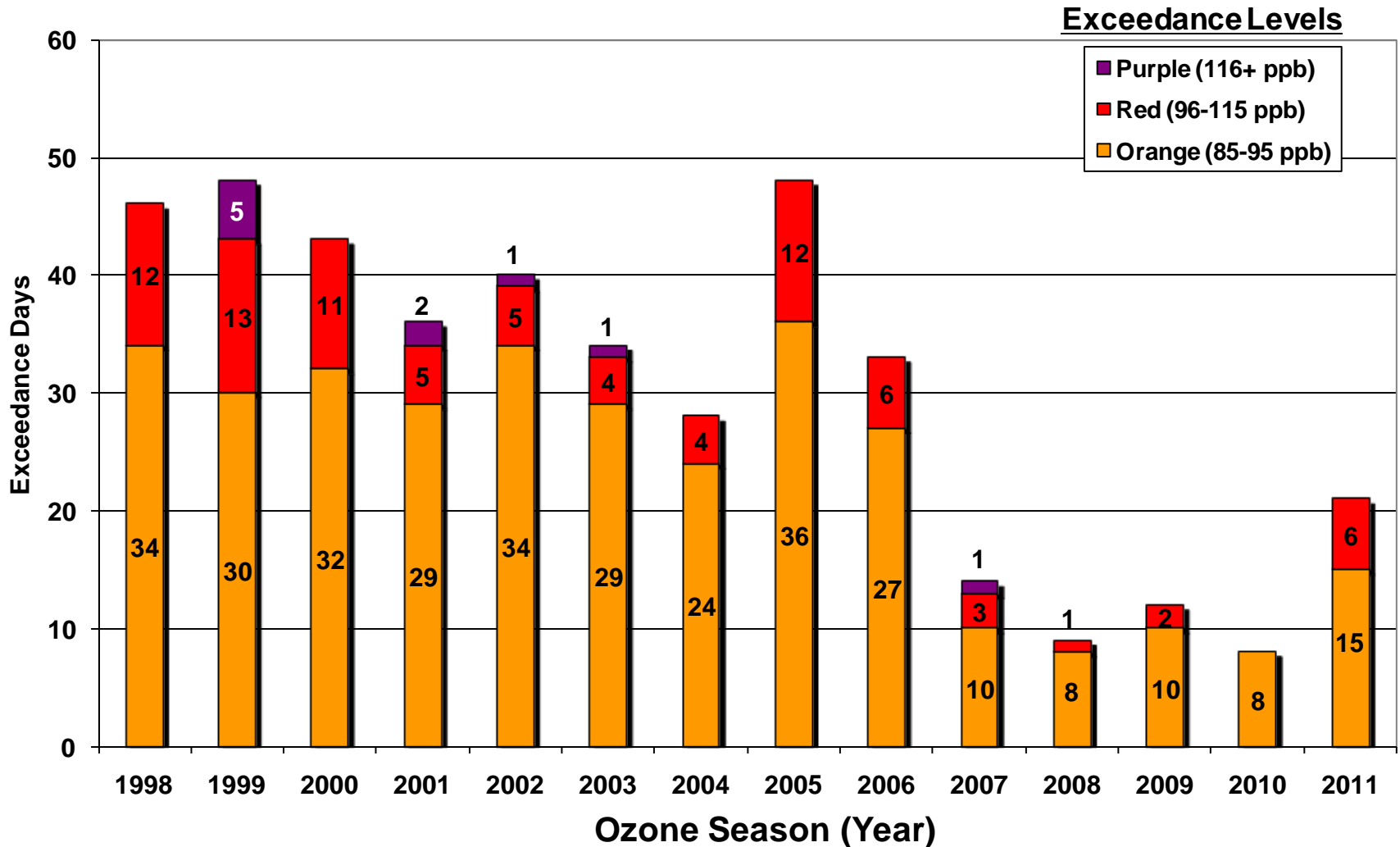


North Central Texas
Council of Governments

1997 8-Hour Ozone Standard (85 ppb)

2011 END OF OZONE SEASON

8-Hour Ozone Exceedance Days*



Exceedance Level indicates daily maximum 8-hour average ozone concentration. Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the for the ozone standard of 85 ppb.

Source: Texas Commission on Environmental Quality
www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_exceed.pl
 ppb = parts per billion

2011 END OF OZONE SEASON

Potential Factors & Areas Future Research

| Variables for DFW Area* | Annual Average (1981-2010) | Annual to Date^ (2011) |
|---|----------------------------|---|
| Number of Days Above 100° Fahrenheit | 18 | 71 (4 fold increase) |
| Inches Precipitation (June – September) | 10.4 | 4.6 (56% decrease) |
| Wind Speed (mph) | 10.3** | 11.3 (slight increase) |
| Wind Direction | Variable | Variable |
| Texas Forest Fires | N/A | 27,411 Forest Fires 3,914,178 Acres Burned (6 of the 10 largest wildfires in Texas history) |

* Data collected from the DFW International Airport weather station.

** Data for 2005-2010 only

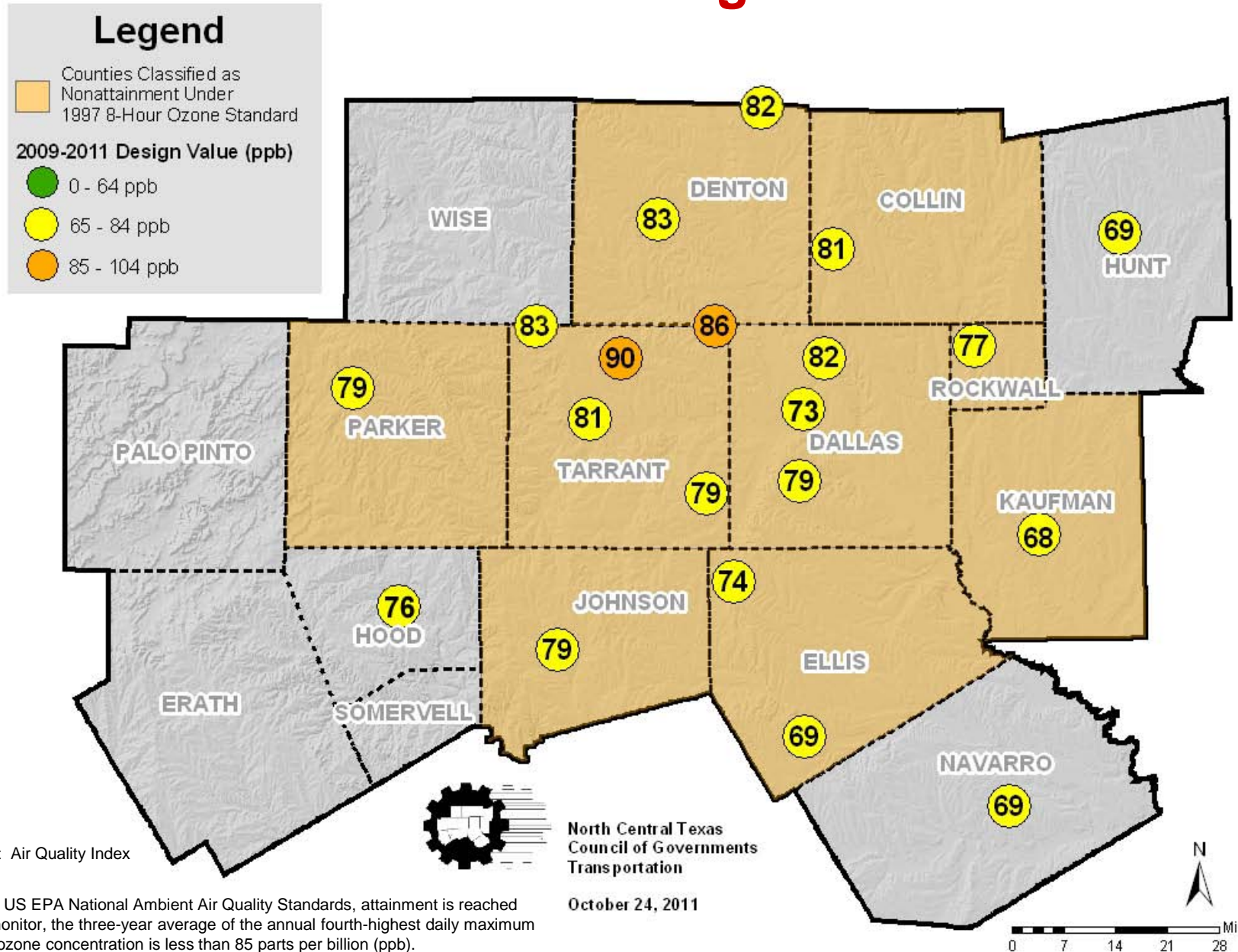
^ Current as of December 6, 2011

mph = miles per hour

Conclusion = It is an Open Question

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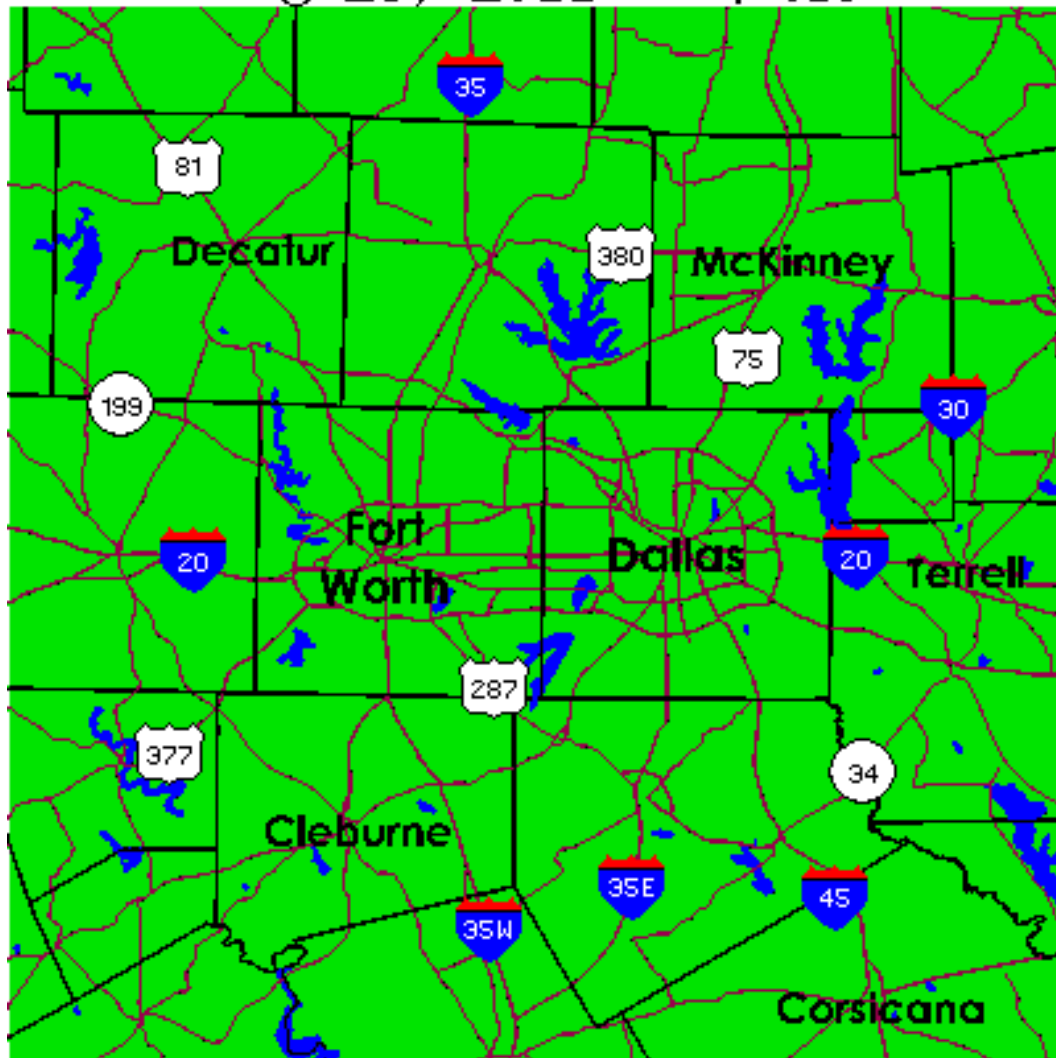
8-Hour Ozone Design Values



2011 OZONE SEASON

Maximum Daily 8-Hour Average was 103 ppb on August 28, 2011

North-Central Texas
Aug 28, 2011 7 AM



Air Quality

Hazardous

Very Unhealthy

Unhealthy

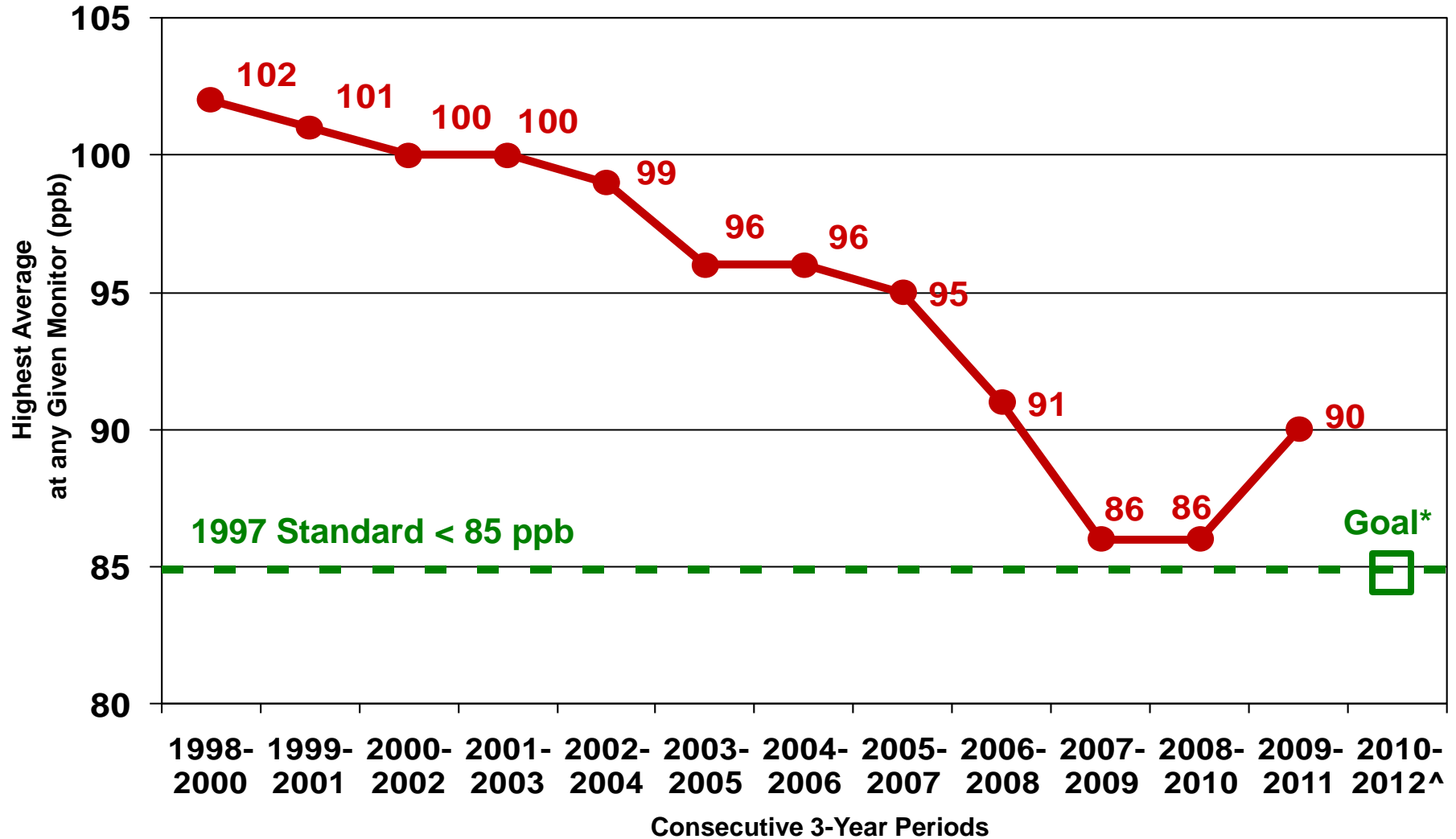
Unhealthy
(for sensitive groups)

Moderate

Good

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 October 31, 2011

1997 STANDARD & NONATTAINMENT HISTORY

85 parts per billion (ppb)

Clean Air Act Requires 5-Year Review Cycle for Each of the National Ambient Air Quality Standards

Timeline

1997 = 8-Hour Ozone Standard Instigated at 85 ppb

2004 = Nine Counties Designated as *Moderate* Nonattainment

**2010 = *Moderate* Attainment Deadline: Not Met
(2007-2009 Ozone Data)**

2011 = Reclassification to *Serious* Nonattainment

**2012 = State Submits Revised State Implementation Plan (SIP)
to Environmental Protection Agency (EPA)**

**2013 = *Serious* Attainment Deadline
(2010-2012 Ozone Data)**

2008 8-Hour Ozone Standard (75 ppb)

2008 OZONE STANDARD

75 ppb

Timeline

2008 = 8-Hour Ozone Standard Revised to 75 ppb

State Designation Recommendations Submitted to EPA;
Hood County Considered for Inclusion into Nonattainment
Area

2010 = **Reconsideration of Standard (60-70 ppb)**

Standard Put On Hold (75 ppb)

2011 = **Withdrawal of Reconsideration (60-70 ppb)**

Standard Resumed (75 ppb)

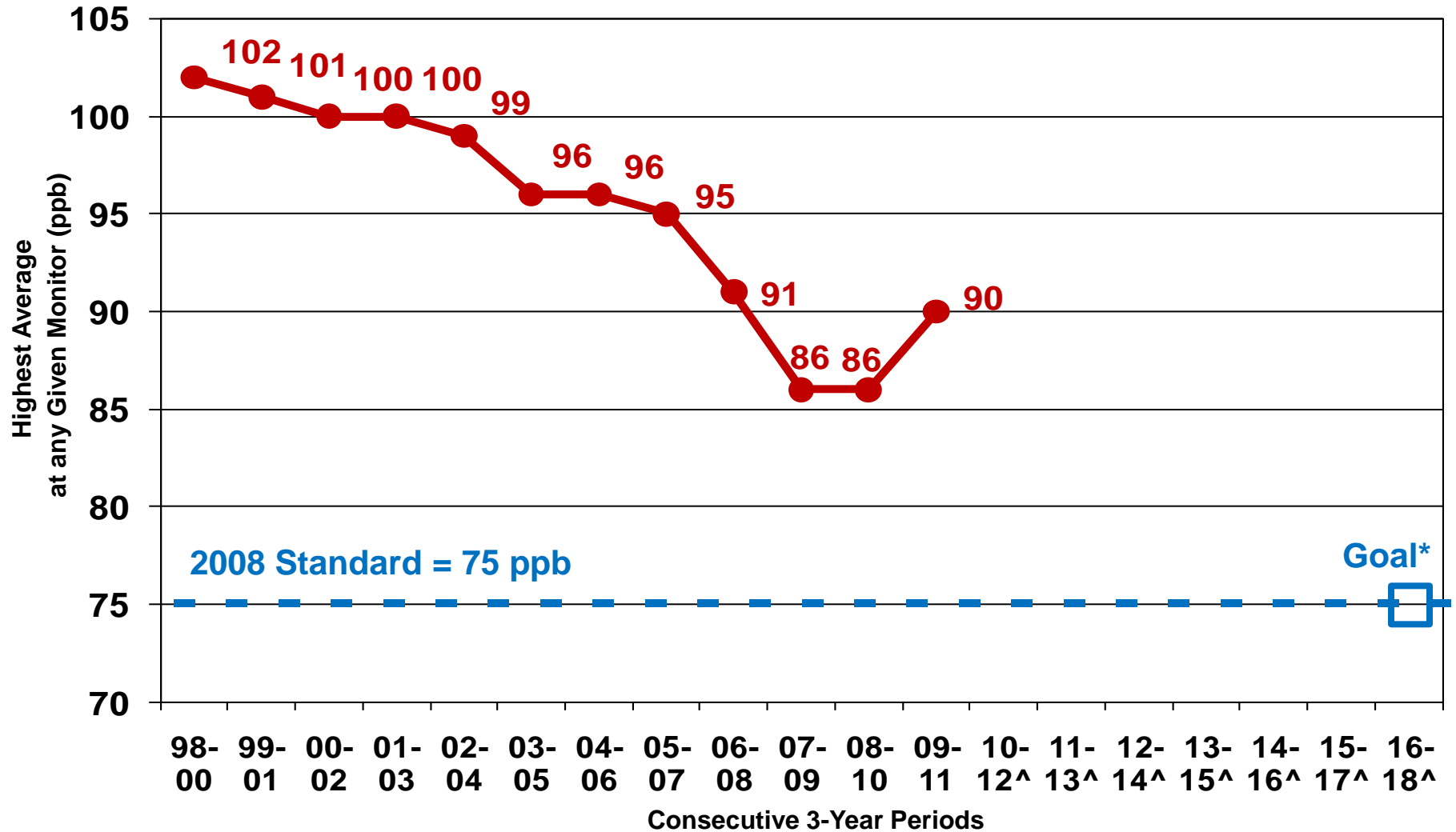
2012 = Final Designations by EPA

2015 = State Submits SIP to EPA

2018 = Anticipated *Moderate* Attainment Deadline

8-HOUR OZONE HISTORICAL TRENDS

DFW Nonattainment Area



* Attainment Goal - Attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is equal to or less than 75 ppb.

^ Not a full set of data. Current as of October 31, 2011

8-HOUR OZONE STANDARD

Timeline Comparison

| Years | 1997 8-Hour Ozone Standard (85 ppb) | 2008 Revised 8-Hour Ozone Standard (75 ppb) |
|-------|--|--|
| 1997 | 8-Hour Ozone Standard Instigated | |
| 2004 | Nine Counties Designated as “Moderate” Nonattainment | |
| 2008 | | Standard Revised |
| 2008 | | State Designation Recommendations Submitted to EPA; Hood County Considered for Inclusion into Nonattainment Area |
| 2010 | “Moderate” Attainment Deadline: Not Met (2007-2009 Ozone Data) | Standard Put on Hold Due to Reconsideration |
| 2011 | Reclassification to “Serious” Nonattainment | Reconsideration Withdrawn; Standard Resumed |
| 2012 | Revised SIP Due to EPA | Final Designations by EPA* |
| 2013 | “Serious” Attainment Deadline: (2010-2012 Ozone Data) | |
| 2015 | | SIP Due to EPA* |
| 2018 | | Anticipated “Moderate” Attainment Deadline* |

* Dates subject to change based on possible litigation

Air Quality Programs

SAMPLE OF PROGRAMS

Air Quality

AirCheckTexas Drive a Clean Machine

Helps Low to Middle Income Residents Repair or Replace Vehicles That Fail an Inspection or Are > 10 Years Old www.nctcog.org/airchecktexas



Regional Smoking Vehicle Program

Anonymous Reporting of Smoking Vehicles to Notify Owners of the Harmful Effects of Pollution and Opportunities Available to Repair and/or Replace High-Emitting Vehicles www.smokingvehicle.net



Air North Texas

Voluntary Effort and Creative Platform to Develop a Regional Voice to Generate Public Awareness That Will Foster Behavioral Changes in the Community
www.airnorthtexas.org



SAMPLE OF PROGRAMS

Air Quality

Electric Vehicles North Texas

Preparing North Texas for Transition to Plug-In Electric Vehicles www.nctcog.org/evnt



North Central Texas Clean School Bus Program

Funding and Resources for Schools and Bus Operators www.nctcog.org/CleanSchoolBus



North Texas Green and Go Partnership

Promotes Use of Low-Emitting Vehicles for Taxis and Limos www.northtexasgreenandgo.org



Texas Emissions Reduction Plan Partnership Program

Funding for Heavy-Duty On-Road and Non-Road Vehicles and Equipment

www.nctcog.org/trans/air/programs/terp



Available/Upcoming Clean Technology Funding Programs*

(Current as of 12/7/2011)

Eligible Technology Applications

| Heavy-Duty Vehicles | School Buses | Light-Duty Vehicles | Non-Road Equipment | Refueling Infrastructure | Idle Reduction Technology | Oil and Gas Vehicles/ Equipment |
|---------------------|--------------|---------------------|--------------------|--------------------------|---------------------------|---------------------------------|
|---------------------|--------------|---------------------|--------------------|--------------------------|---------------------------|---------------------------------|

Currently Available Programs

| | | | | | | |
|---|---|---|---|---|---|---|
| <u>2010 Ethanol Pump Program</u> | | | | X | | |
| <u>Cascade Sierra Solutions Financing Opportunities</u> | X | | | | X | X |
| <u>Clean Cities National Parks Initiative</u> | X | X | X | X | | |
| <u>H-GAC Drayage Loan Program</u> | X | | | | | |
| <u>Propane Vehicle Incentives Program 2010</u> | X | X | | | | X |
| <u>Shorepower Truckstop Electrification Project</u> | X | | | | X | |
| <u>Sue Pope Fund for Pollution Reduction</u> | X | X | X | X | X | |
| <u>Texas Railroad Commission Propane Vehicle Grants</u> | X | X | | | | X |

Future NCTCOG Programs

| | | | | | | |
|---|---|--|---|--|--|--|
| <u>Clean Construction Equipment Program</u> | | | X | | | |
| <u>Clean School Bus Program</u> | X | | | | | |

For More Information: www.nctcog.org/aqfunding

* This table is intended to provide information on funding for vehicle, equipment, and add-on technology projects for fleets only.

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