Air Quality in North Central Texas

College and University I/M Partnership Program

May 1, 2012

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Transportation Department
North Central Texas Council of Governments

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

Voluntary Association Of, By, and For Local Governments

16-County Region Centered Around Dallas-Fort Worth (DFW)

230 Member Governments (Cities, Counties, Special Districts)

Goals Include:

- Planning for Common Needs
- Cooperating for Mutual Benefit
- Coordinating for Sound Regional Development

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

Metropolitan Planning Organization (MPO)

- **12-County Metropolitan Planning Area**
- **Responsibilities Include Reducing Congestion, Enhancing Mobility, and <u>Improving Air Quality</u>**

NATIONAL AMBIENT AIR QUALITY STANDARDS

Criteria Pollutants

Carbon Monoxide

X: Lead

Nitrogen Oxides

X: Ozone

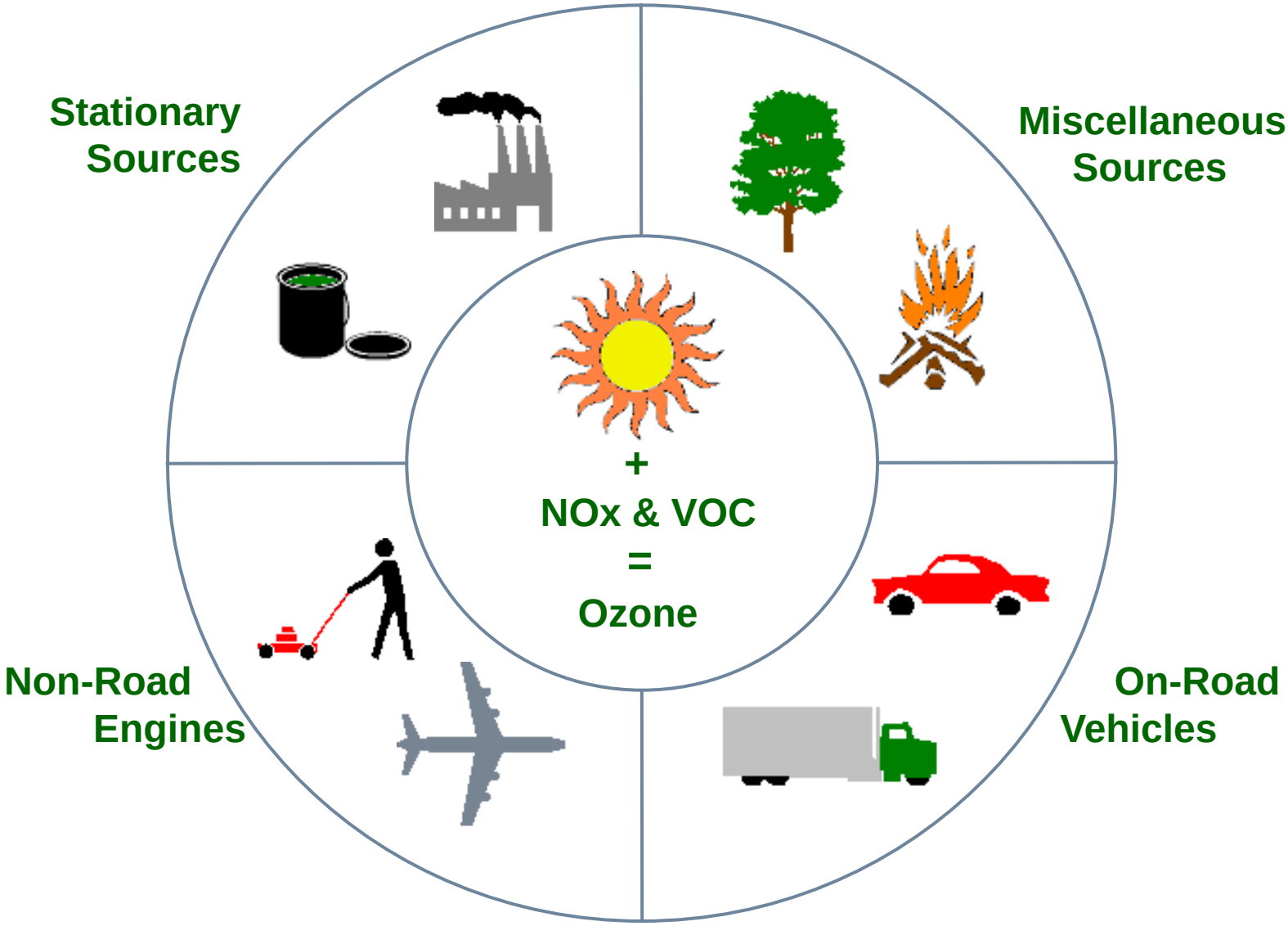
Particulate Matter

Sulfur Dioxide

Future: Greenhouse Gas Emissions (i.e. Carbon Dioxide)

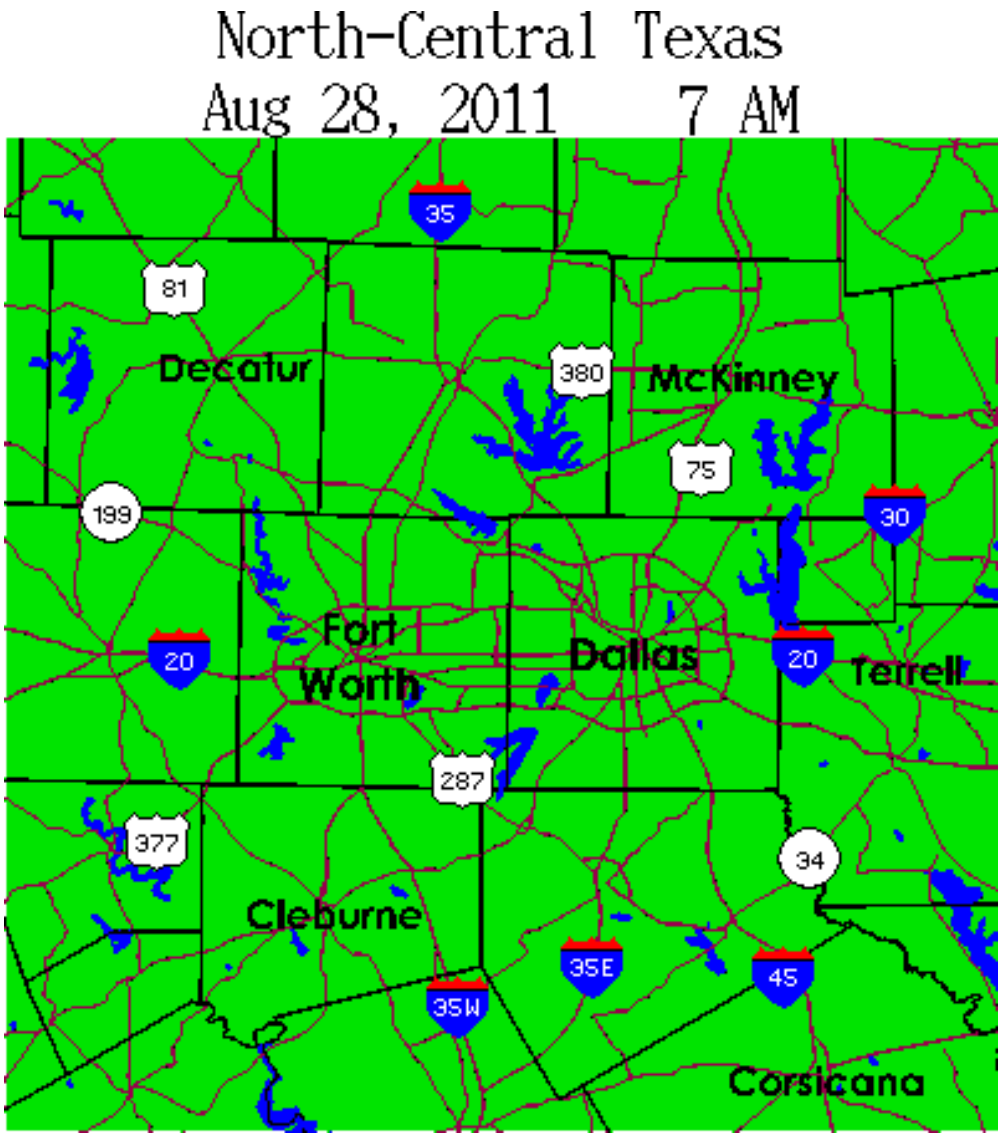
STATE OF AIR QUALITY IN NORTH TEXAS

Ozone Formation



2011 OZONE SEASON

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



AIR QUALITY INDEX

Air Quality Index (AQI) Values	Levels of Health Concern
0 to 50	Good
51-100	Moderate
101-150	Unhealthy for Sensitive Groups
151-200	Unhealthy
201-300	Very Unhealthy
301 to 500	Hazardous

FEDERAL OZONE STANDARDS

DFW Nonattainment Area

1-Hour Ozone Standard: 125 ppb
4 North Texas Counties Designated

1997 8-Hour Ozone Standard: < 85 ppb

9 North Texas Counties Designated
Deadline to Reach Attainment: June 2010

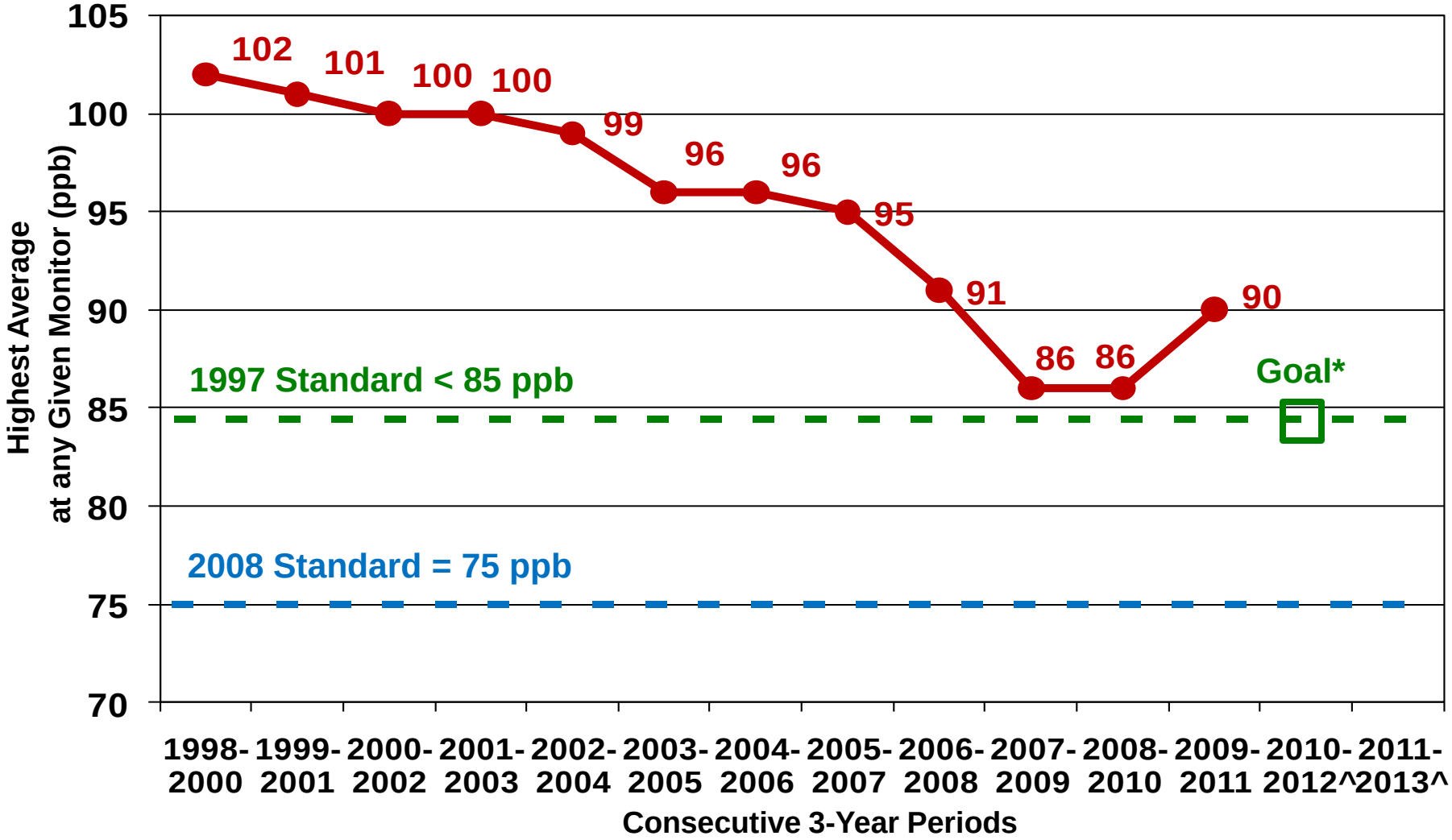
2008 8-Hour Ozone Standard: 75 ppb

Designations Under New Standard:
Anticipated Summer 2012

ppb = parts per billion

1997 8-HOUR OZONE HISTORICAL TRENDS

DFW Nonattainment Area



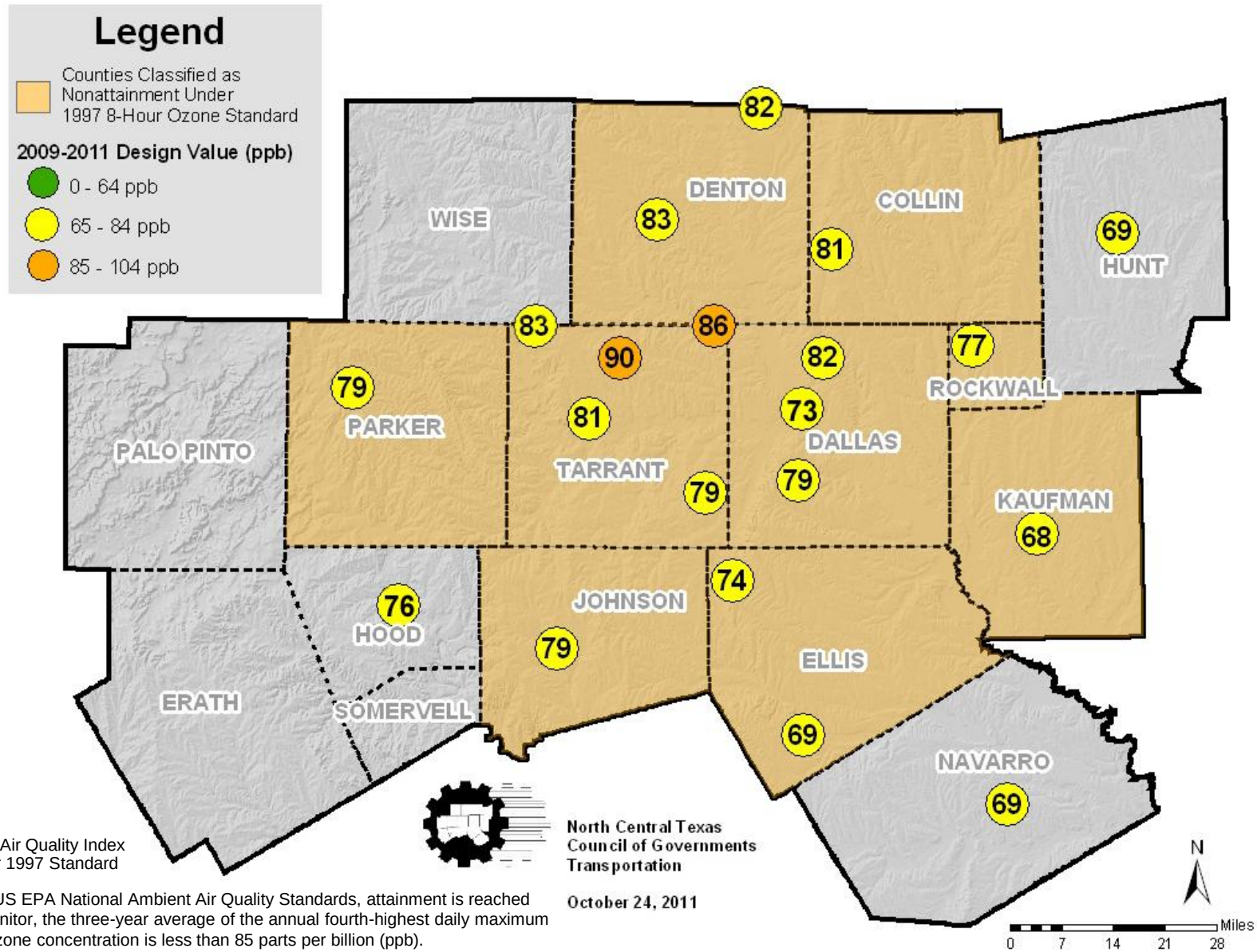
* Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

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

Source: NCTCOG TR Dept

1997 8-HOUR OZONE STANDARD

2011 DFW Nonattainment Area Design Values

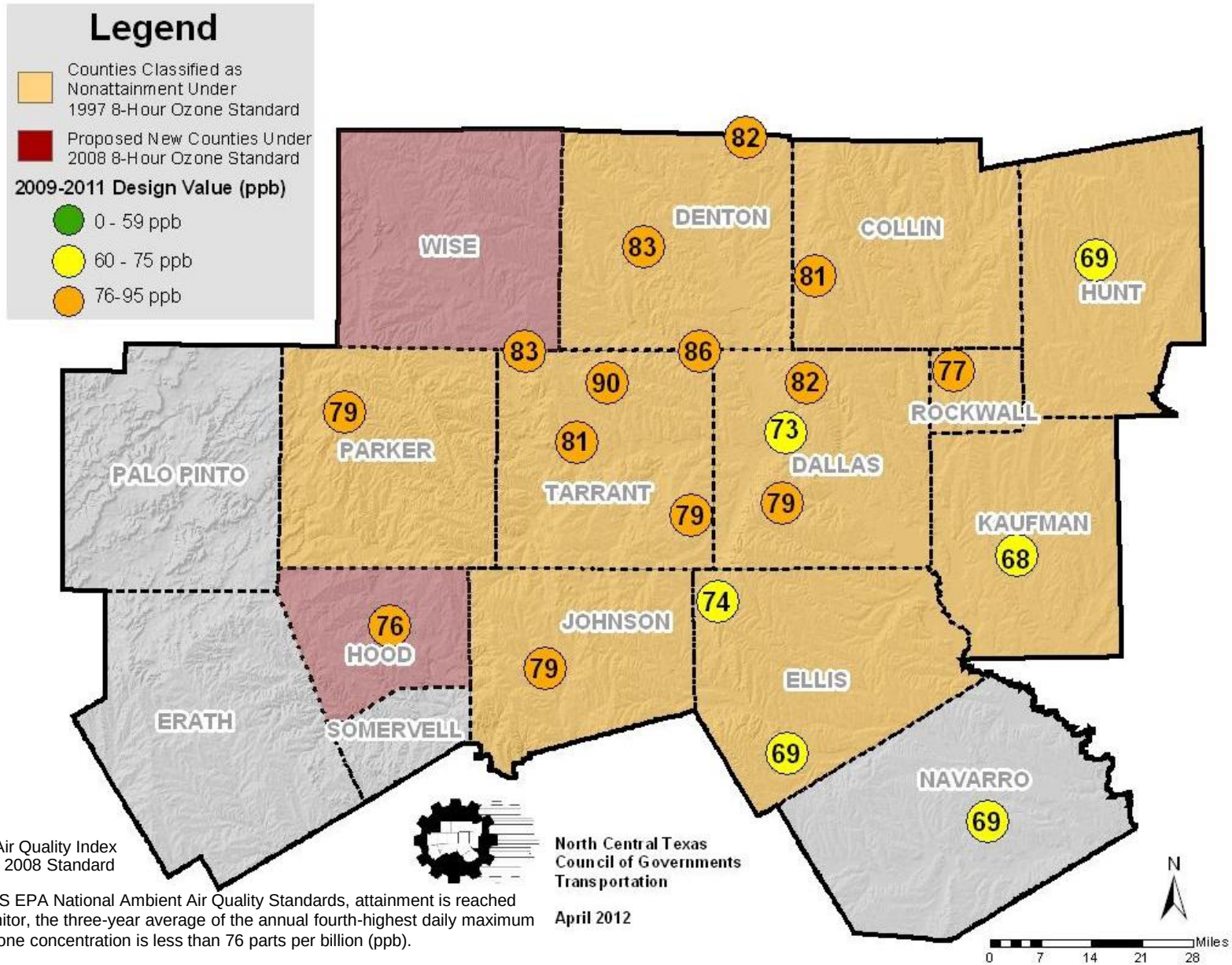


Colors represent Air Quality Index breakpoints under 1997 Standard

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).

2008 8-HOUR OZONE STANDARD

Proposed DFW Nonattainment Area

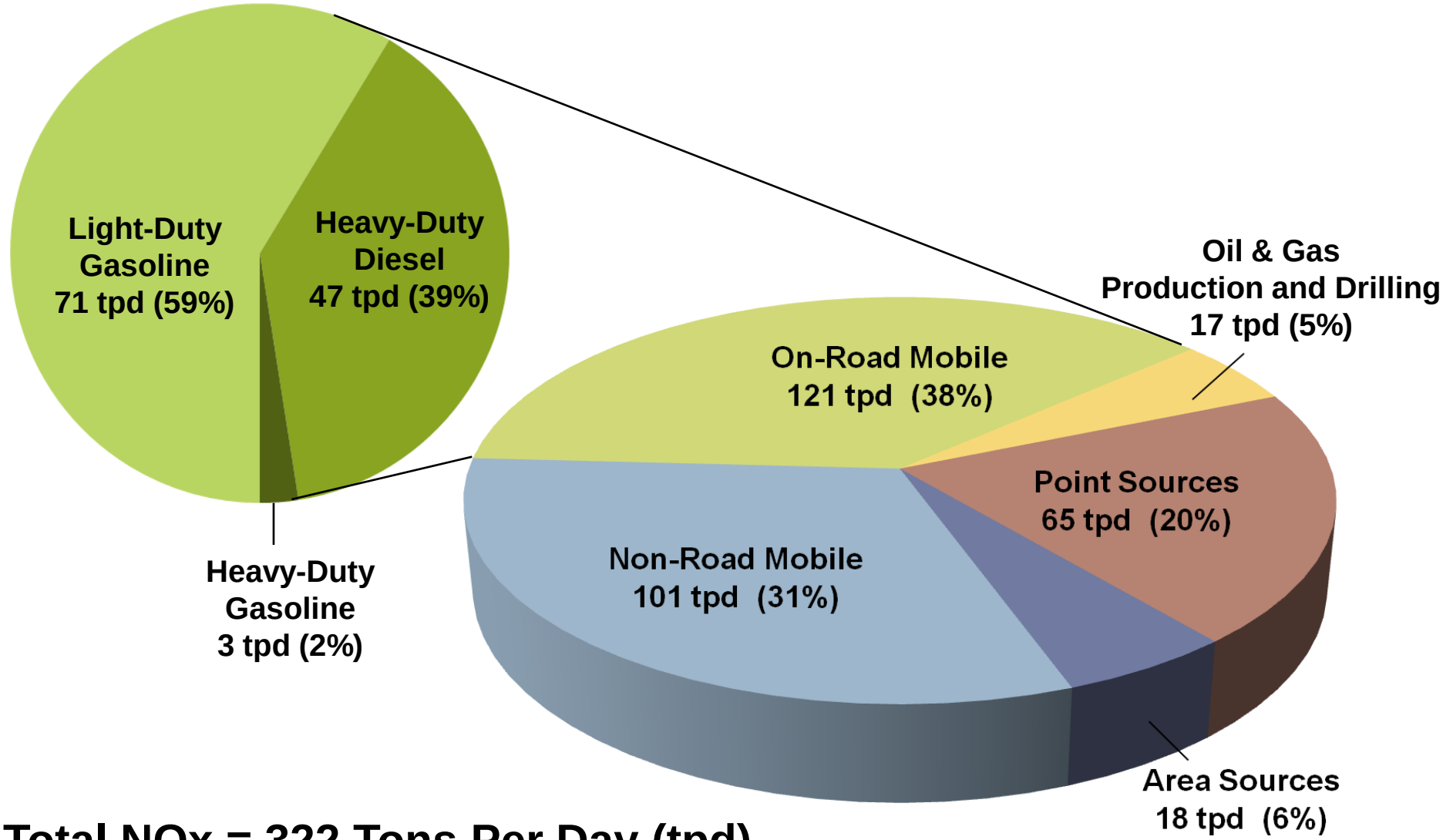


Colors represent Air Quality Index Breakpoints Under 2008 Standard

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 76 parts per billion (ppb).

DFW NONATTAINMENT AREA

NO_X Emission Inventories* by Source



Total NOx = 322 Tons Per Day (tpd)

***Preliminary Results; Source: TCEQ**

MINIMIZING AIR QUALITY IMPACTS

Programs

RSVP
REGIONAL SMOKING VEHICLE PROGRAM
Don't Choke, Call #SMOKE

nct clean school bus
north.central.texas.clean.school.bus.program

NORTH TEXAS GREEN & GO
CLEAN TAXI PARTNERSHIP

SmartWay Transport Partnership
U.S. ENVIRONMENTAL PROTECTION AGENCY

NED
NCTCOG EMISSIONS DATABASE

Dallas-Fort Worth
CLEAN CITIES

RAIL NORTHTEXAS

WARNING
5 MINUTE IDLE LIMIT
BUSES – MAXIMUM 30 MINUTES
STATE CODE 30 TAC 114.512
www.EngineOffNorthTexas.org

tryparkingit.com

Regional Emissions Enforcement Program

DalTrans
Texas Department of Transportation

air northtexas
go green. breathe clean.

HOV LANE
Diamonds are a driver's best friend.
A guide to DART's HOV lane system

TERP
TEXAS EMISSIONS REDUCTION PLAN
A PROGRAM OF THE TCEQ

TransVISION

AirCheckTexas

Drive a Clean Machine

NORTH CENTRAL TEXAS AIR QUALITY

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