

North Central Texas Air Quality

Urban League of Greater Dallas

July 20, 2013

**Transportation Department
North Central Texas Council of Governments**

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

2

Voluntary Association Of, By and For Local Governments

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

230 Member
Governments
(Cities, Counties,
Special Districts)

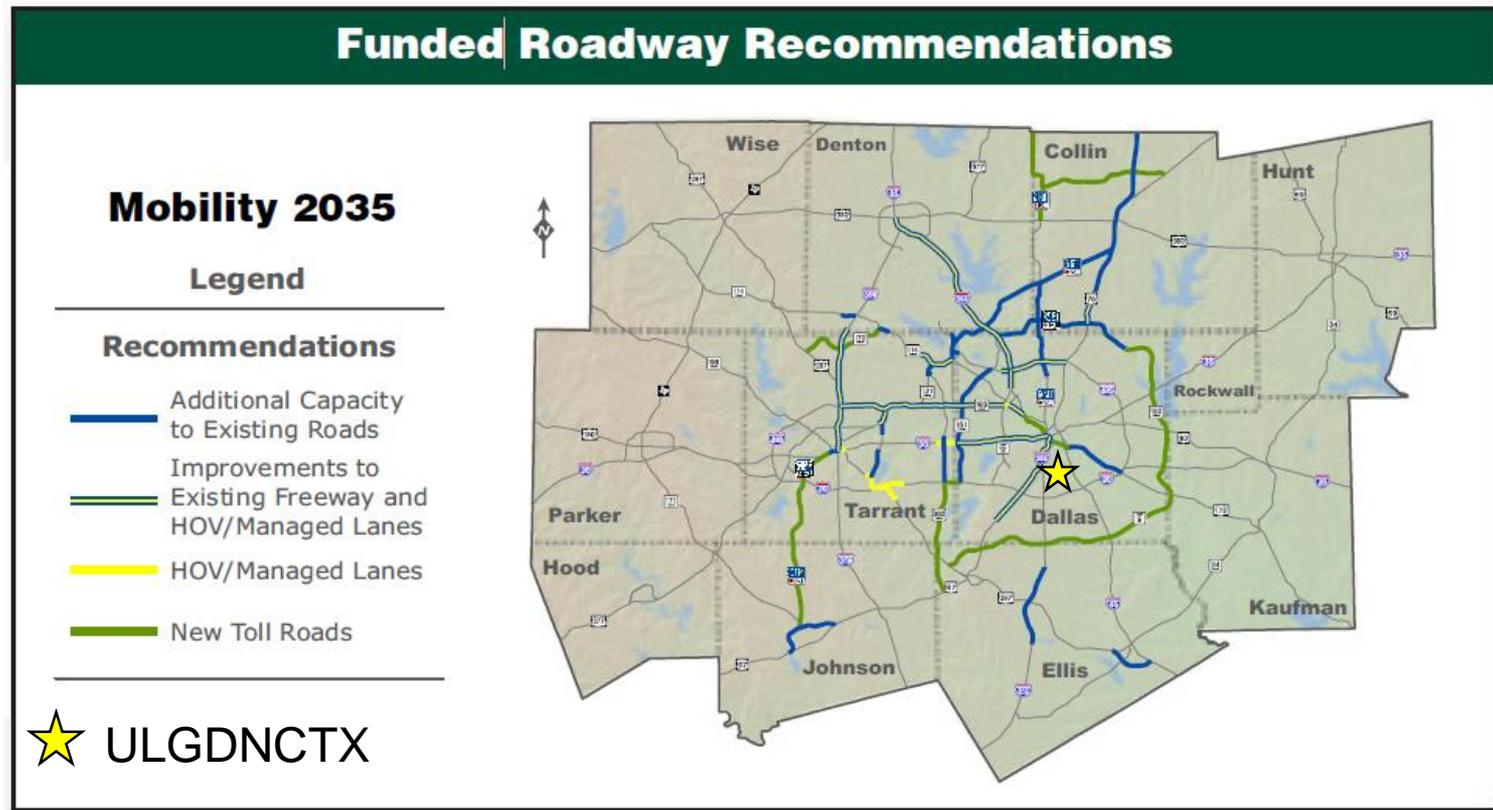


Goals Include:

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

Metropolitan Planning Organization (MPO)

- 12-County Metropolitan Planning Area
- Responsibilities Include Reducing Congestion, Enhancing Mobility, and Improving Air Quality



NATIONAL AMBIENT AIR QUALITY STANDARDS

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Criteria Pollutants

Carbon Monoxide

X: Lead

Nitrogen Oxides

X: Ozone

Particulate Matter

Sulfur Dioxide

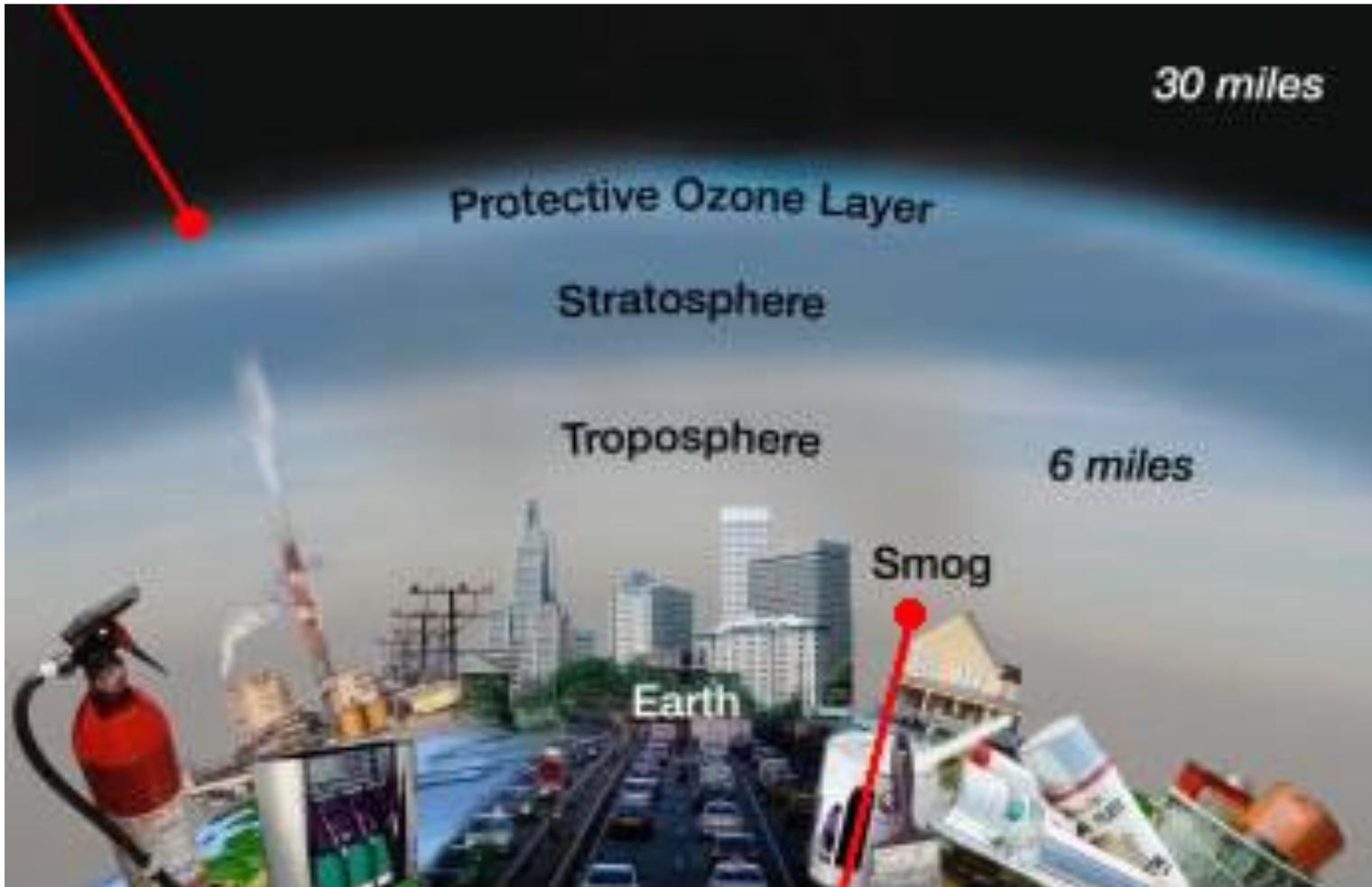
**Future: Greenhouse Gas Emissions
(i.e. Carbon Dioxide)**

OZONE

5

Good vs. Bad

Too little there... Many popular consumer products, like air conditioners and refrigerators, involve CFCs or halons during either manufacture or use. Over time, these chemicals damage the earth's protective ozone layer.



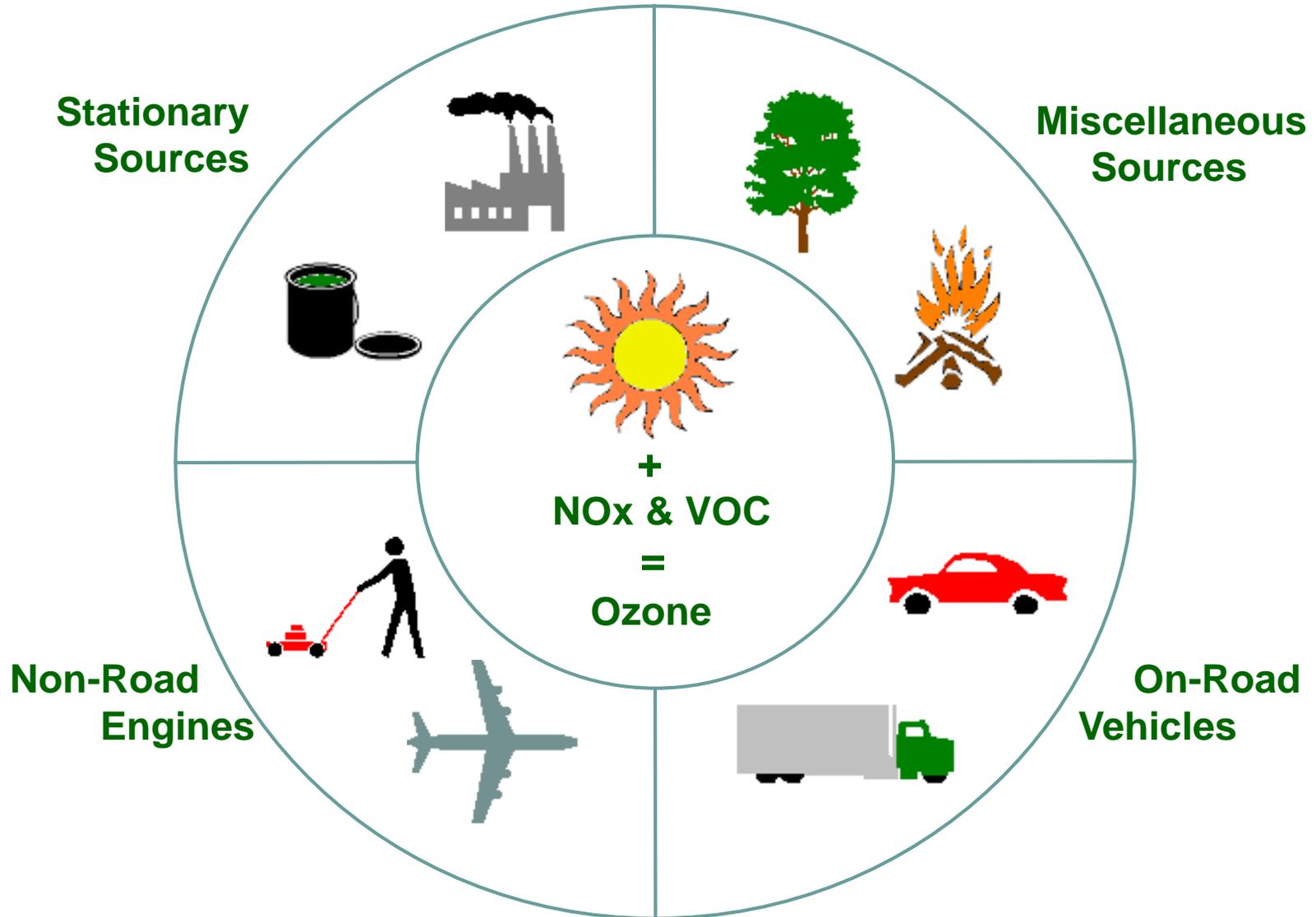
Too much here... Cars, trucks, power plants, and factories emit air pollution that forms ground level ozone, a primary component of smog.

* Source: US Environmental Protection Agency

STATE OF AIR QUALITY IN NORTH TEXAS

6

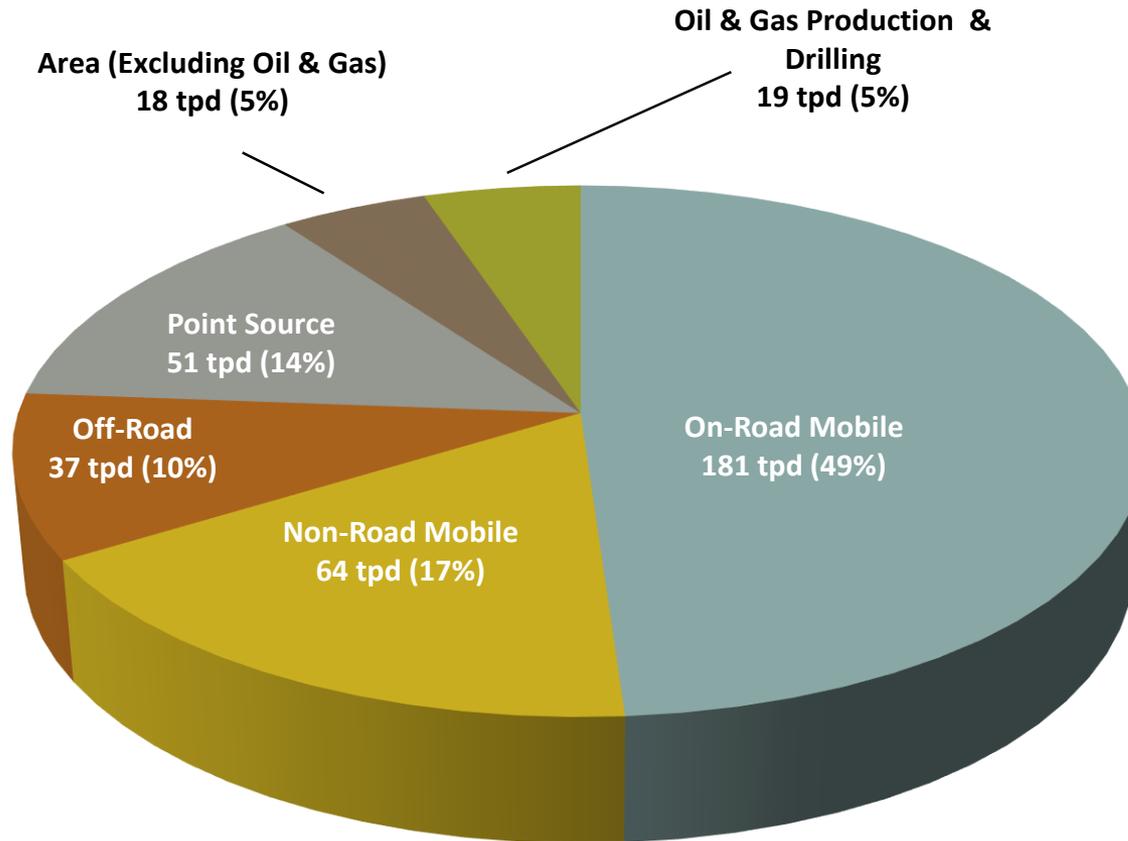
Ozone Formation



DFW NONATTAINMENT AREA

7

NO_x Emission Inventories* by Source



Total NO_x = 370 tons per day (tpd)

*Source: TCEQ

FEDERAL OZONE STANDARDS

8

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

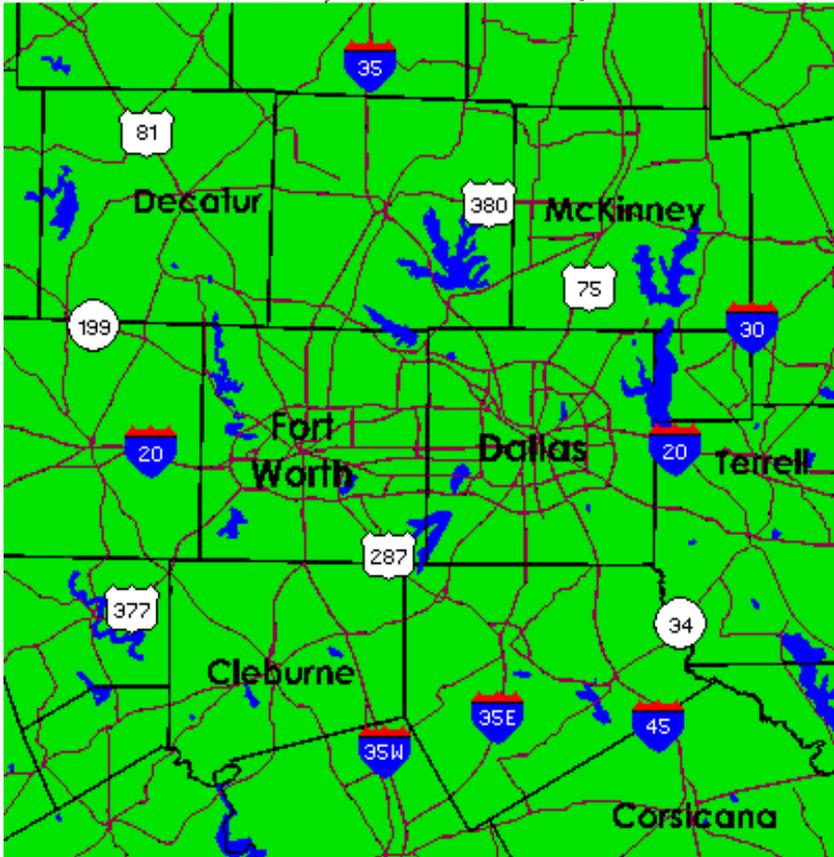
Designations Under New Standard:
Anticipated Summer 2012

2013 OZONE SEASON

9

Maximum Daily 8-Hour Average was 110 ppb on June 26, 2012

North-Central Texas
Jun 26, 2012 7 AM

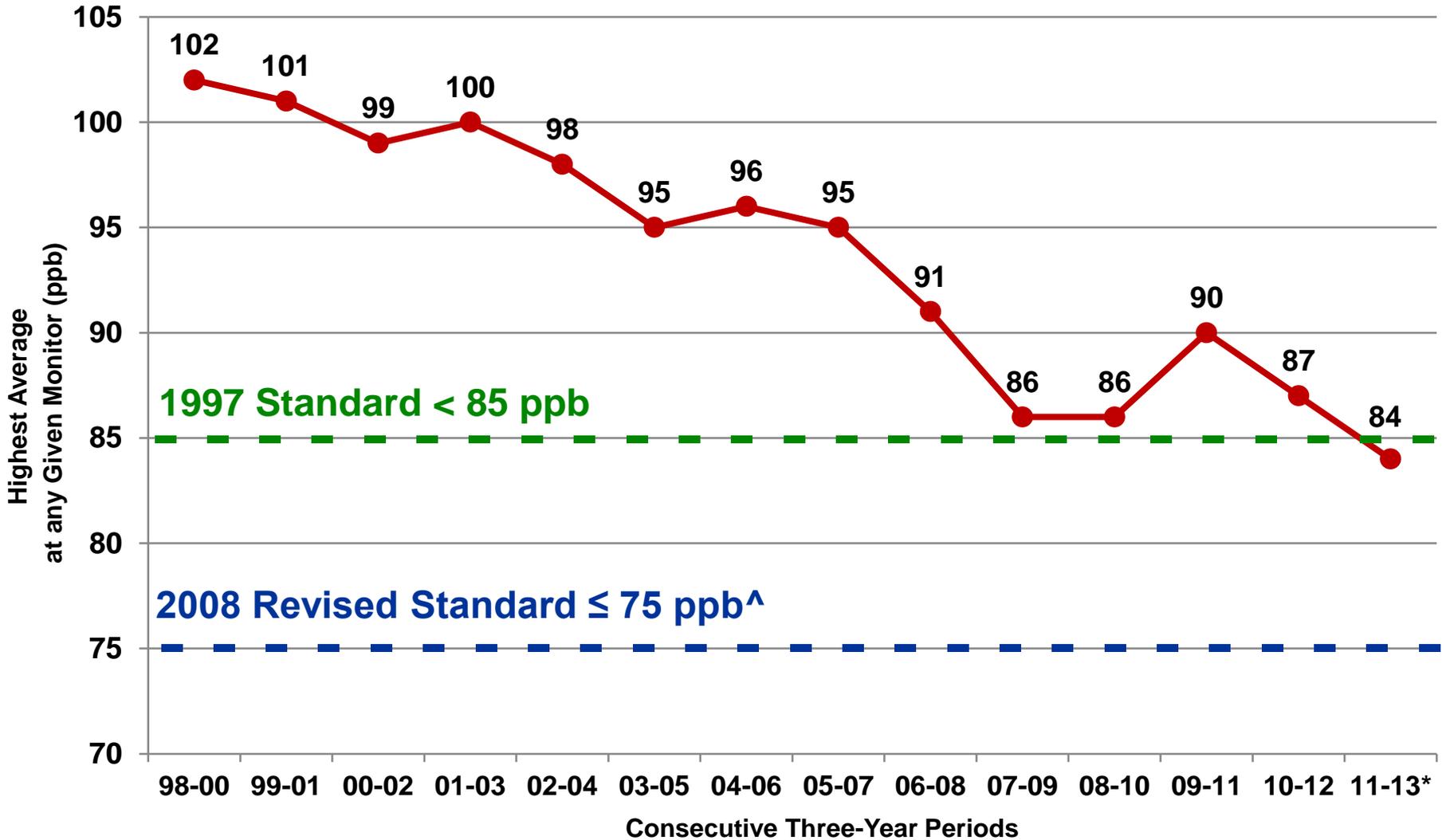


AIR QUALITY INDEX

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

1997 8-HOUR OZONE HISTORICAL TRENDS

DFW Nonattainment Area

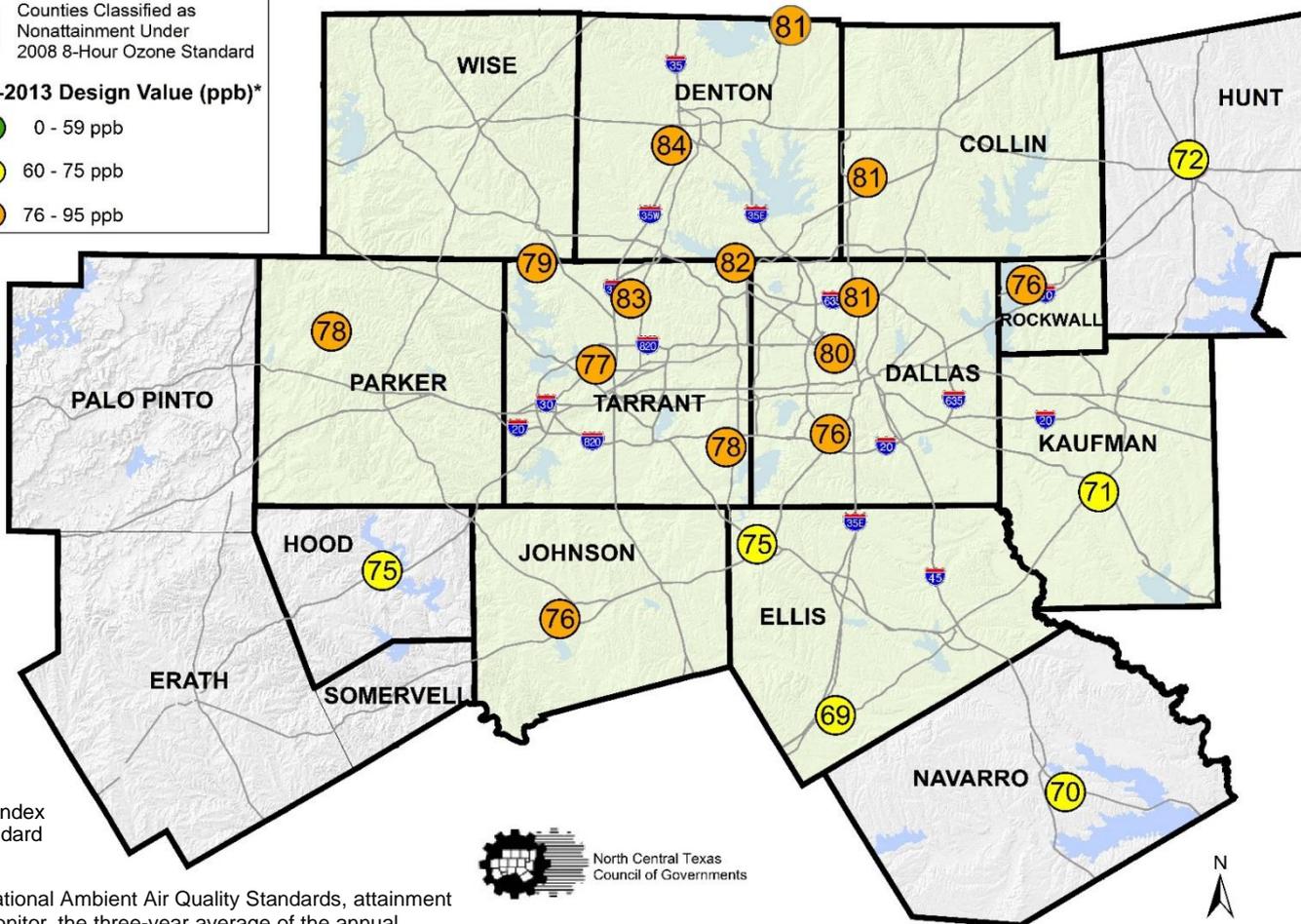
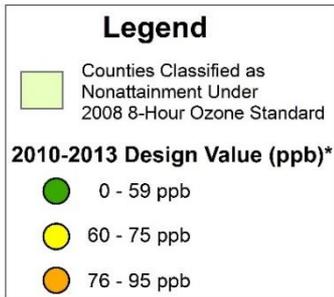


^Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is equal to or less than 75 parts per billion (ppb).

*Not a full year of data. Current as of 7/14/2013.

2008 DFW NONATTAINMENT AREA

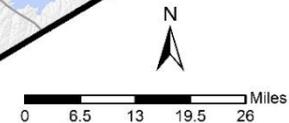
8-Hour Ozone Design Values



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 equal to or less than 75 parts per billion (ppb).

*Not a full year of data. Current as of 7/14/2013.



PROGRAMS MINIMIZING AIR QUALITY IMPACTS



Don't Choke, Call #SMOKE



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



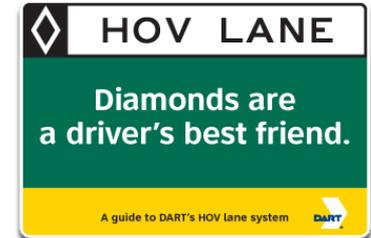
NCTCOG EMISSIONS DATABASE



Dallas-Fort Worth CLEAN CITIES



tryparkingit.com



go green. breathe clean.



AIR NORTH TEXAS

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Goal

A public awareness campaign that encourages residents of North Texas to make clean air choices.

www.AirNorthTexas.org



pollutes the air → 

does not pollute the air → 

know your impact
www.airnorthtexas.org

Air North Texas is a public awareness campaign that encourages residents of North Texas to make clean air choices. Join the campaign and learn about the positive impacts you can make.

go green. breathe clean. 

 **go green breathe clean**
a campaign for clean air

- home
- about us
- partners
- individuals
- businesses
- air facts
- just for kids
- links & resources

playing catch outside is so much more fun

bike it you might like it

think. share. connect.

Kick back, hang out, feel free to surf and browse our Web site. Learn more about simple daily actions you can adopt to improve air quality. Here's one: how about combining your errands into one quick trip— you save on gas, time, and you're helping the air.

While you're here, why not sign up to become a part of the Air North Texas' campaign for clean air. Everyone including individuals, organizations, even kids can join. Get connected. Join us.

is the air safe today?

It's hard to judge on our own. Luckily, you can sign up for air quality alerts that will notify you when you and your children should use caution outdoors. And, you and your family can take action to make sure we have more good air quality days by carpooling to school when you receive an alert. Sign up and learn more at www.airnorthtexas.org.



i want my time out

Kids will tell you they love recess - getting outside for a good workout and taking a break from textbooks. Help protect the air for our children by adopting simple, daily clean air habits like carpooling to school and reducing idling. Make learning, living healthy and breathing clean child's play.

go green. breathe clean.
www.airnorthtexas.org

REGIONAL SMOKING VEHICLE PROGRAM (RSVP)

14

Goal

To Advise Vehicle Owners of Possible Emission Problems Local Citizen Identification Efforts

Reporting Methods

Online at www.SmokingVehicle.net

#SMOKE (#76653) from Wireless Phone

817-704-2522 from a Landline Phone



REGIONAL SMOKING VEHICLE PROGRAM

Don't Choke, Call #SMOKE

AIRCHECKTEXAS DRIVE A CLEAN MACHINE

15

Goal

Helps North Texans Repair or Replace Vehicles That Do Not Pass Inspection or Are \geq 10 Years Old

Up to \$600 for Repair or \$3,500 for Replacement

Repaired 20,000 Vehicles and Replaced 20,000!

www.DriveACleanMachine.org



DALLAS-FORT WORTH CLEAN CITIES COALITION

16

Goal

Clearinghouse for Information and Education on Clean Fuel and Advanced Technology Vehicles, Programs, and Policies

Focus is on Petroleum Reduction and Air Quality Benefits

www.nctcog.org/CleanCities



**Dallas-Fort Worth
CLEAN CITIES**



Goal



www.nctcog.org/CleanSchoolBus

Administer Grant Funding to Reduce Emissions From Older, High-Emitting School Buses

Provide Education Materials to Schools, School Districts, and School Bus Operators

Promote Enforcement of Anti-Idling Policies for All Other Vehicles That Operate Within A School Zone

REGIONAL EMISSIONS ENFORCEMENT PROGRAM

18

Goal

Collaborative Program Developed by the North Central Texas Council of Governments (NCTCOG) to:

- 1) Enhance State's Inspection and Maintenance (I/M) Program**
- 2) Target High-Emitting Vehicles to Reduce Emissions and Improve Air Quality**



www.nctcog.org/REEP

802
Counterfeits

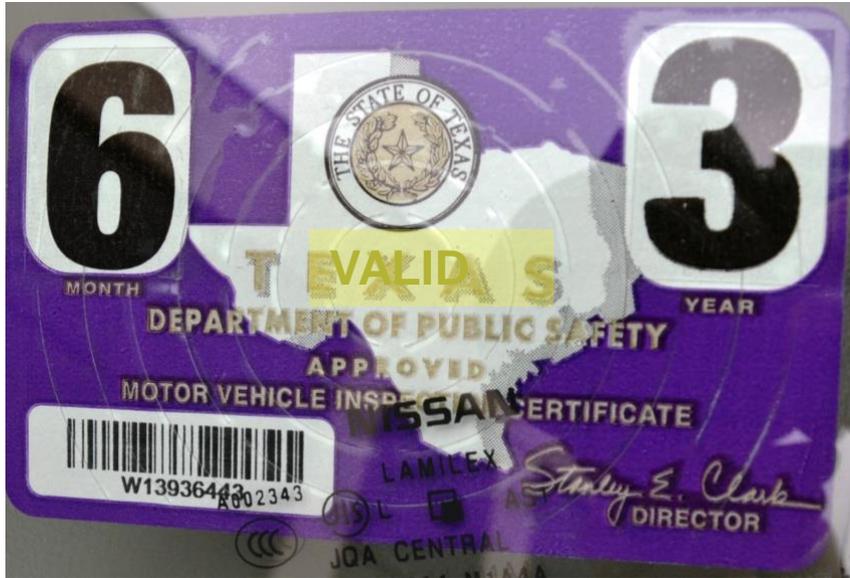
\$48,120



SPOT THE FAKE

SPOT THE FAKE

21



Hand Drawn
and Laminated



SPOT THE FAKE

22



Incorrect Font

Incorrect Color Green

COUNTERFEIT

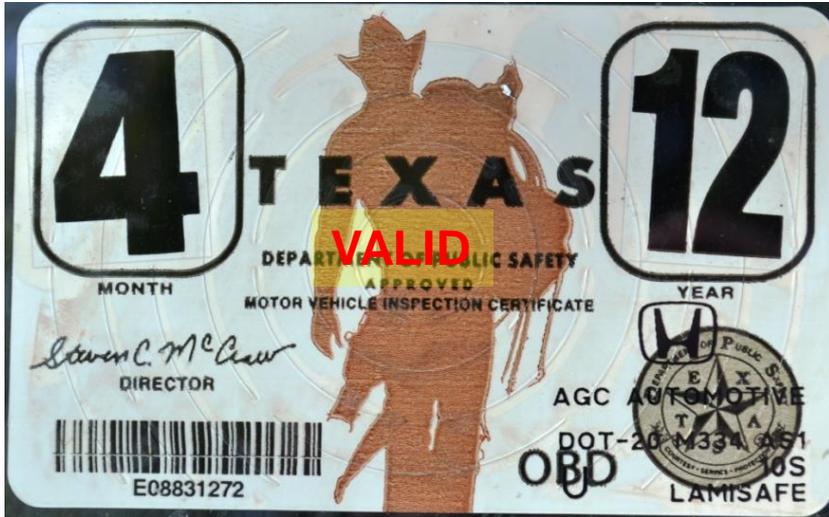
Alpha Character and Number
Should Be Same Size



VALID

SPOT THE FAKE

23



Faded Colors
Saddle Straps Crossed
Incorrect Alpha Character

Valid, But Stolen From
Another Vehicle

BE AIR AWARE WITH AIR NORTH TEXAS

24

What can you do to help improve air quality?

Carpool

Use Mass Transit

Bike or Walk

Take Lunch to Work or Summer Activities

Ask Mom/Dad to Observe Speed Limits

Avoid Idling

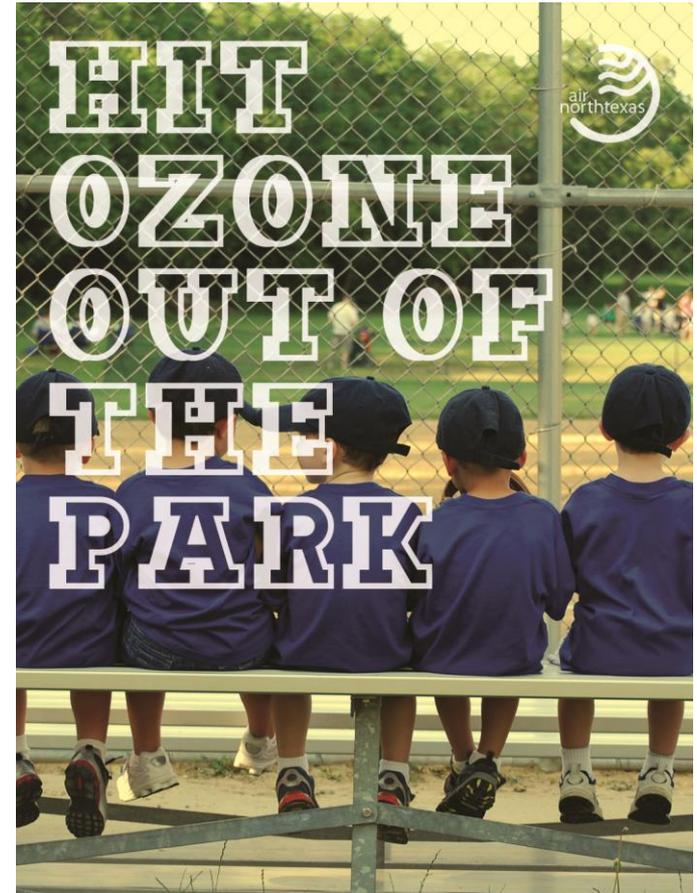
Combine Trips or Drive Less

Report Smoking, Polluting Vehicles (#SMOKE)

Make Sure Family Car is Getting Regular Maintenance and State Emissions Inspections

Switch to Compact Fluorescent Light Bulbs

Encourage Friends and Family to Make Clean Air Choices





REVIEW

REVIEW

Question: 1)

What does NCTCOG stand for?

Choices:

- A) North Central Texas Center of Geography
- B) North Central Texas Council of Governments
- C) North Central Texas Creatures of Geometry

REVIEW

Question: 1)

What does NCTCOG stand for?

Answer: B)

A) North Central Texas Center of Geography

B) North Central Texas Council of Governments

C) North Central Texas Creatures of Geometry

REVIEW

Question: 2)

Which pollutant is North Central Texas in nonattainment for?

Choices:

- A) Sulfur Dioxide
- B) Particulate Matter
- C) Ozone

REVIEW

Question: 2)

Which pollutant is North Central Texas in nonattainment for?

Answer: C)

- A) Sulfur Dioxide
- B) Particulate Matter
- C) Ozone



REVIEW

Question: 3)

On the Air Quality Index, which color represents a health concern for sensitive groups in particular?

Choices:

- A) Yellow
- B) Orange
- C) Red



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

REVIEW

Question: 3)

On the Air Quality Index, which color represents a health concern for sensitive groups in particular?

Answer: B)

- A) Yellow
- B) Orange
- C) Red



Air Quality Index (AQI) Values	Levels of Health Concern
0 to 50	Good
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REVIEW

Question: 4)

How many counties are currently designated as nonattainment for ozone in Dallas-Fort Worth (DFW)?

Choices:

- A) 10
- B) 12
- C) 16

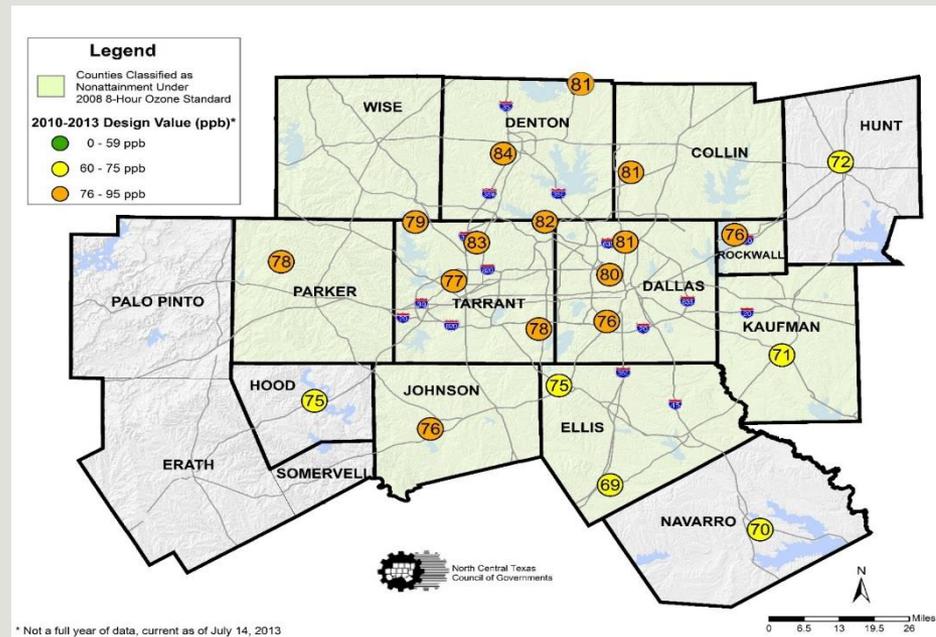
REVIEW

Question: 4)

How many counties are currently designated as nonattainment for ozone in Dallas-Fort Worth (DFW)?

Answer: A)

- A) 10
- B) 12
- C) 16



REVIEW

Question: 5)

What can you do to improve air quality?

Choices:

- A) Carpool
- B) Ask Mom/Dad to Observe speed limits
- C) Encourage friends and family to make clean air choices
- D) Avoid idling
- E) Switch to compact fluorescent light bulbs
- F) All of the Above

REVIEW

Question: 5)

What can you do to improve air quality?

Answer: F)

- A) Carpool
- B) Ask Mom/Dad to Observe speed limits
- C) Encourage friends and family to make clean air choices
- D) Avoid idling
- E) Switch to compact fluorescent light bulbs
- F) All of the Above

NORTH CENTRAL TEXAS AIR QUALITY

Contact Information

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www.nctcog.org