Transportation Policy, Programs, and History

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North Central Texas Council of Governments
April 13, 2015
WHO IS NCTCOG?
A voluntary association of, by, and for local governments.

NCTCOG serves a 16-county region of North Texas, which includes over 230 member governments including counties, numerous cities, school districts, and special districts.

Established to assist local governments in planning for common needs, cooperating for mutual benefit, and coordinating for sound regional development.

NCTCOG's purpose is to help local governments recognize regional opportunities, eliminate unnecessary duplication, and make joint decisions.
Activites Overseen by Regional Transportation Council (RTC)

Metropolitan Transportation Plan - Mobility 2035

Transportation Improvement Program
  Surface Transportation Program-Metropolitan Mobility
  Congestion Mitigation and Air Quality Program
  Section 5307 (Urbanized Area)
  Section 5310 (Elderly and Disabled)

Air Quality Conformity Determinations

Unified Planning Work Program
  Metropolitan Transportation Planning Funds:
    Federal Transit Administration (Section 5303)
    Federal Highway Administration (PL)
  Texas Department of Transportation
National Ambient Air Quality Standards (NAAQS)

Six Criteria Pollutants

Carbon Monoxide (CO)

Lead (Pb)

Nitrogen Oxides (NO\textsubscript{x})

Ozone (O\textsubscript{3})

Particulate Matter (PM\textsubscript{2.5} & PM\textsubscript{10})

Sulfur Dioxide (SO\textsubscript{2})
Optimum conditions for the formation of ozone include high temperatures and low winds.
In 2012, the emission inventories showed the following breakdown:

**NOx (Nitrogen Oxides):**
- Area (Excluding Oil & Gas): 18 tpd (5%)
- Point Source: 51 tpd (14%)
- Off-Road Mobile: 37 tpd (10%)
- Oil & Gas Production & Drilling: 19 tpd (5%)
- On-Road Mobile: 181 tpd (49%)
- Total NOx = 370 tons per day (tpd)

**VOC (Volatile Organic Compounds):**
- Oil & Gas Production & Drilling: 19 tpd (5%)
- Oil and Gas Drilling: 1 tpd (<1%)
- Off-Road Mobile: 64 tpd (17%)
- Non-Road Mobile: 43 tpd (8%)
- Area (Excluding Oil & Gas): 240 tpd (46%)
- Point Source: 39 tpd (7%)
- Total VOC = 522 tons per day (tpd)

Source: Texas Commission on Environmental Quality (TCEQ)
2012 EMISSION INVENTORIES

Estimated NO$_x$ Emissions by Source

- **Oil & Gas Production & Drilling**: 19 tpd (5%)
- **Point Source**: 51 tpd (14%)
- **Non-Road Mobile**: 64 tpd (17%)
- **Off-Road Mobile**: 37 tpd (10%)
- **On-Road Mobile**: 181 tpd (49%)
- **Area (Excluding Oil & Gas)**: 18 tpd (5%)

**Total NO$_x$ = 370 tons per day (tpd)**

- **Light-Duty Gasoline**: 100.7 tpd (55.51%)
- **Heavy-Duty Diesel**: 74.61 tpd (41.13%)
- **Light-Duty Diesel**: 0.52 tpd (0.29%)
- **Heavy-Duty Gasoline**: 5.57 tpd (3.07%)

NO$_x$ = Nitrogen Oxides
VOC = Volatile Organic Compounds
tpd = Tons per Day

Source: Texas Commission on Environmental Quality
Timeline

1997 8-Hour Ozone Standard ≤85 ppb
9 Counties Designated as “Moderate” Nonattainment
Moderate” Attainment Deadline: Not Met (2007-2009 Ozone Data)
Reclassification to “Serious” Nonattainment
State Submits Revised SIP to EPA
“Serious” Attainment Deadline Not Met (2010-2012 Ozone Data)
1997 8-Hour Ozone Standard Revoked


2008 8-Hour Ozone Standard ≤75 ppb
State Designation Recommendations Submitted to EPA; Hood County Considered
Reconsideration of Standard (60-70 ppb)
Standard Put On Hold (75 ppb)
Withdrawal of Reconsideration (60-70 ppb)
Standard Resumed (75 ppb)
Final Designations by EPA, Wise County Added to Nonattainment Region
State Submits Transportation Conformity to EPA
Reconsideration of Standard (60-70 ppb)
“Moderate” Attainment Deadline (2015-2017 Ozone Data)

SIP = State Implementation Plan
EPA – Environmental Protection Agency
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 revised ozone standard of 75 ppb.

- **Purple (116+ ppb)**
- **Red (96-115 ppb)**
- **Orange (85-95 ppb)**
- **Orange (76-84 ppb)**

*2014 data not certified by the TCEQ*
*Not a full year of data, current as of 4/10/2015*

Source: [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl)
According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the Design Value (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).

1997 Standard < 85 ppb

2008 Revised Standard ≤ 75 ppb

*2014 data not certified by the Texas Commission on Environmental Quality
^Not a full year of data, current as of 4/10/2015.
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 or equal to 75 parts per billion (ppb).
AIR QUALITY PROGRAMS
Congestion Mitigation and Air Quality Improvement (CMAQ) Program

The CMAQ program was implemented to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief to help meet the requirements of the Clean Air Act.

Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).
CONGESTION MITIGATION AND AIR QUALITY PROGRAM

Examples of Eligible Activities
- Advanced Truck-stop Electrification Systems
- Traffic Signalization
- High-Occupancy Vehicle Lanes
- Intersection Improvements
- Transit Projects
- Implementation of Intelligent Transportation Systems
- Improvements to Incident and Emergency Response

Performance-Based
- Establish measures for States to use to assess traffic congestion and on-road mobile source emissions. [§1203; 23 USC 150(c)]

Establish targets for these measures within one year of the final rule on national performance measures. [§1203; 23 USC 150(d)]

Develop and update biennially a performance plan to achieve air quality and congestion reduction targets. [§1113; 23 USC 149(l)]
Examples of Current Efforts

- Clean Cities
- Electric Vehicles North Texas
- Listening.
- Propylene POWERED BY BLUE BIRD
- CASCADE SIERRA SOLUTIONS
- SmartWay Transport Partnership
- 5 MINUTE IDLE LIMIT BUSES - MAXIMUM 30 MINUTES
- RSVP
- IH-920 NORTHBOUND AT JOHN T WHITE EXPECT DELAYS
- Don't Choke, Call #SMOKE
- HOV LANE
- Diamonds are a driver's best friend.
- U. S. Department of Energy
Ozone Season Messaging

Radio Ads – KERA and Radio Disney
Monthly Newsletter – Clean Air Mail

visit www.airnorthtexas.org

Contact: Whitney Vandiver at wvandiver@nct cog.org or 817-704-5639
NCTCOG OZONE ACTIVITY WEBSITE

Current Ozone Activity
No Air Pollution Action Day for Saturday, April 11, 2015
Current Design Value is: 71 ppb

Current Air Quality Index (AQI) for Friday, April 10, 2015 2:00:00 PM
These are not monitor values. These are AQI values. See table below.

Current AQI Animation
Animation Courtesy of AirNow
These are not monitor values. These are AQI values. See table above.

http://www.nctcog.org/trans/air/ozone/current.asp
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