NORTH TEXAS AIR QUALITY UPDATE

Accelerating Environmental Health in Dallas: An Opportunities Analysis Work Session
September 21, 2017

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CRITERIA POLLUTANTS

Carbon Monoxide
Lead
Nitrogen Dioxide
Particular Matter
Sulfur Dioxide
Ozone

How are we doing?
What is the focus?
What is being done?
Current As of September 20, 2017

Legend
- Counties Designated Nonattainment Under 2008 National Ambient Air Quality Standard for Ozone
- Metropolitan Planning Area

2015-2017 Design Value (ppb)*
- 0 - 54 ppb
- 55 - 70 ppb
- 71 - 85 ppb

*2017 Design Value, not a full year of data.

North Central Texas Council of Governments
Exceedance Level indicates daily maximum eight-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 70 ppb.

= Additional level orange exceedance days under the revised standard that were not exceedances under the previous 75 ppb standard. (AQI level orange = 71-75 ppb)

^Not a full year of data.
Source: TCEQ, http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl

ppb = parts per billion
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 eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

- **1997 Standard < 85 ppb (Revoked)**
- **2008 Standard ≤ 75 ppb** (by 2017)
- **2015 Standard ≤ 70 ppb** (TBD; Marginal by 2022)

**Not a full year of data.**

Source: NCTCOG TR Dept
Total NO\textsubscript{X} = 296.73 tons per day (tpd)

Source: TCEQ, 2017 Dallas-Fort Worth 8-hour Ozone Attainment Demonstration State Implementation Plan
Total On-Road Mobile NO\textsubscript{x} = 130.77 tpd

Source: Texas Commission on Environmental Quality, 2017 Dallas-Fort Worth 8-hour Ozone Attainment Demonstration State Implementation Plan
*2017 design value data current as of 07/12/2017
SAMPLE OF AIR QUALITY INITIATIVES

- WARNING
  5 MINUTE IDLE LIMIT
  BUSES – MAXIMUM 30 MINUTES
  STATE CODE 30 TAC 14.512
  www.EngineOffNorthTexas.org

- PREFERRED PARKING
  ALTERNATIVE FUEL VEHICLES

- GoSolarTexas.org

- I30 Insider

- Managed HOV Lane
  Exit for Plano Pkwy 1/2 MILE
  Access Left Lane 1/2 MILE

- AirCheck Texas

- Electric Vehicles North Texas

- Lookout Texans
  Bike
  Walk
  Drive safely

- F4F

- Be Car Care Aware

- Proud Supporter of SmartWay®
  Saving Money and Reducing Truck Emissions

- Regional Freight Advisory Committee

- Freight North Texas

- Regional Emissions Enforcement Program

- RSVP
  Don’t Choke, Call #SMOKE

- North Texas
  Be air aware
NCTCOG CLEAN VEHICLE FUNDING EFFORTS

DOLLARS AWARDED FROM 2006-2016; TOTAL = $159,429,148
**SELECT EXISTING AIR QUALITY INITIATIVES**

**Technology Improvements**

AirCheckTexas Drive a Clean Machine Program

**Alternative Fuel Initiatives**

- Alternative Fuel Corridor Designations
- Dallas-Fort Worth Clean Cities Program
- Electric Vehicles North Texas

  Approximately 4 Tons NO\(_x\) Reduced Each Year

- Fleets for the Future Cooperative Procurement

AQ Funding Website and Application Assistance

NCTCOG Clean Vehicle Funding Efforts 2006-2016

Estimated 4,500 Tons NO\(_x\) Reduced over Project Lifetimes
Policies & Processes
Clean Construction Specification
Clean Fleet Policy
Engine Off North Texas
Go Solar Texas
Preferential Parking for Alternative Fuel Vehicles

Outreach/Public Engagement
Air North Texas
Car Care Clinics
Regional Emissions Enforcement Program
Regional Smoking Vehicle Program
EPA SmartWay Affiliate/Saving Money and Reducing Truck Emissions Program
SELECT EXISTING AIR QUALITY INITIATIVES

Transportation System Management

- Intersection Improvements
- High Occupancy Vehicle/Managed Lanes
- Intelligent Transportation Systems
- Freeway/Arterial Bottleneck Removals
- Traffic Signal Improvements
- Truck Lane Restrictions

Travel Demand Management

- Active Transportation Programs
- Park and Ride Projects
- Rail Transit
- Try Parking It
- Vanpool Programs
GET INVOLVED

Air North Texas
Sign Up for Blog Notices and Alerts
Participate in Activities and Actions
Showcase Efforts during Clean Air Action Day (June)
Promote Efforts Online
www.airnorthtexas.org

AirCheckTexas Drive a Clean Machine
Apply for Financial Assistance
Tell your Friends & Neighbors!
Share Promotional Materials Available Online
www.airchecktexas.org

Electric Vehicles North Texas (EVNT)
Attend EVNT & DFW Clean Cities Meetings
Sign Up to Receive Email Announcements
Attend National Drive Electric Week Event
Request Workplace Charging & EV-Ready Construction
www.dfwcleancities.org/evnt
September 9 – Kickoff Event

FREE Webinar Series, Noon – 1 pm Every Day

September 11: EV 101
September 12: Workplace Charging
September 13: Opportunities for Utilities
September 14: Municipalities & EVs
September 15: How to Sell an EV

www.DriveElectricDFW.org
Engine Off North Texas
Request Adoption of Local Ordinances
Report Idling Vehicles
www.EngineOffNorthTexas.org

WARNING
5 MINUTE IDLE LIMIT
BUSES - MAXIMUM 30 MINUTES
STATE CODE 30 TAC 114.512
www.Engine Off North Texas.org
Modernize Legacy Fleet

- 53% of Diesel Fleet >14,000 GVWR is Model Years 1992-2009

Nonprofit Vehicle Donation Partnership

Update Building Codes to Support Electrification and Solar Deployment

Improve/Enhance Effectiveness of Existing Initiatives

- Expand Adoption and Increase Enforcement of Anti-Idling Policies
- Standardize Clean Construction Specification Language
- Increase Electrification
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