

Ozone Plan Update  
2005 Ozone Season  
May 1-October 31

Presented to  
Health, Environment and Human Services  
Committee  
on  
March 28, 2005

# Purpose

- To inform the Committee of the D/FW Air Quality and SIP Status
- To present the 2005 Ozone Plan

# Acronyms

- CAO = City Attorney's Office
- CNG = Compressed Natural Gas
- DART = Dallas Area Rapid Transit
- D/FW = Dallas/Fort Worth
- EI = Emissions Inventory
- EPA = U.S. Environmental Protection Agency
- NCTCOG= North Central Texas Council of Governments
- NO<sub>x</sub> = Nitrogen Oxides (Ozone Precursor)
- OEQ = Office of Environmental Quality
- ppb = parts per billion
- SIP = State Implementation Plan
- TCEQ = Texas Commission on Environmental Quality
- VOC = Volatile Organic Compounds (Ozone Precursor)
- WVMT = Workplace Vehicle Miles Traveled (Driven)

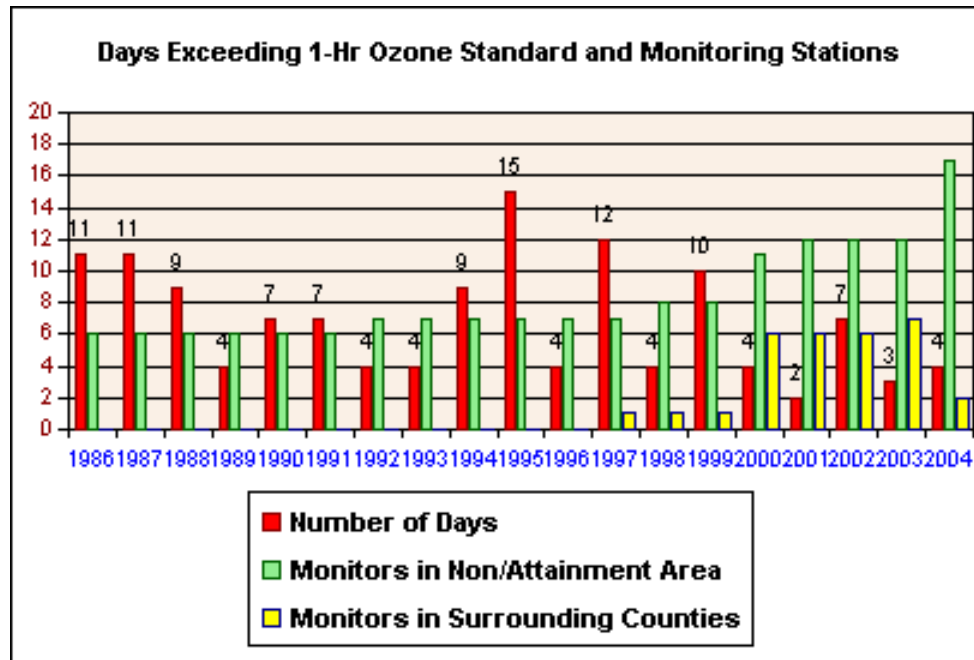
# D/FW Air Quality Timeline

- 2004
  - April 15 New 8-hour ozone designations (EPA)
    - » Required 1-hour SIP (2000, not approvable), or
    - » Required 8-hour SIP (not enough time), or
    - » Required 5% Reduction from 2002 EI by June 15, 2005
  - Nov. 17 Proposed 5% Reduction SIP (TCEQ)
    - » 30.9 tons/day reduction in NO<sub>x</sub> & VOC
- 2005
  - April 28 Adopt 5% Reduction SIP (TCEQ)
    - » Transition from 1-hour to 8-hour Ozone Standard while
    - » Developing 8-hour SIP and additional control strategies
  - June 15 Revoke 1-hour ozone standard (EPA)

# D/FW Air Quality Timeline

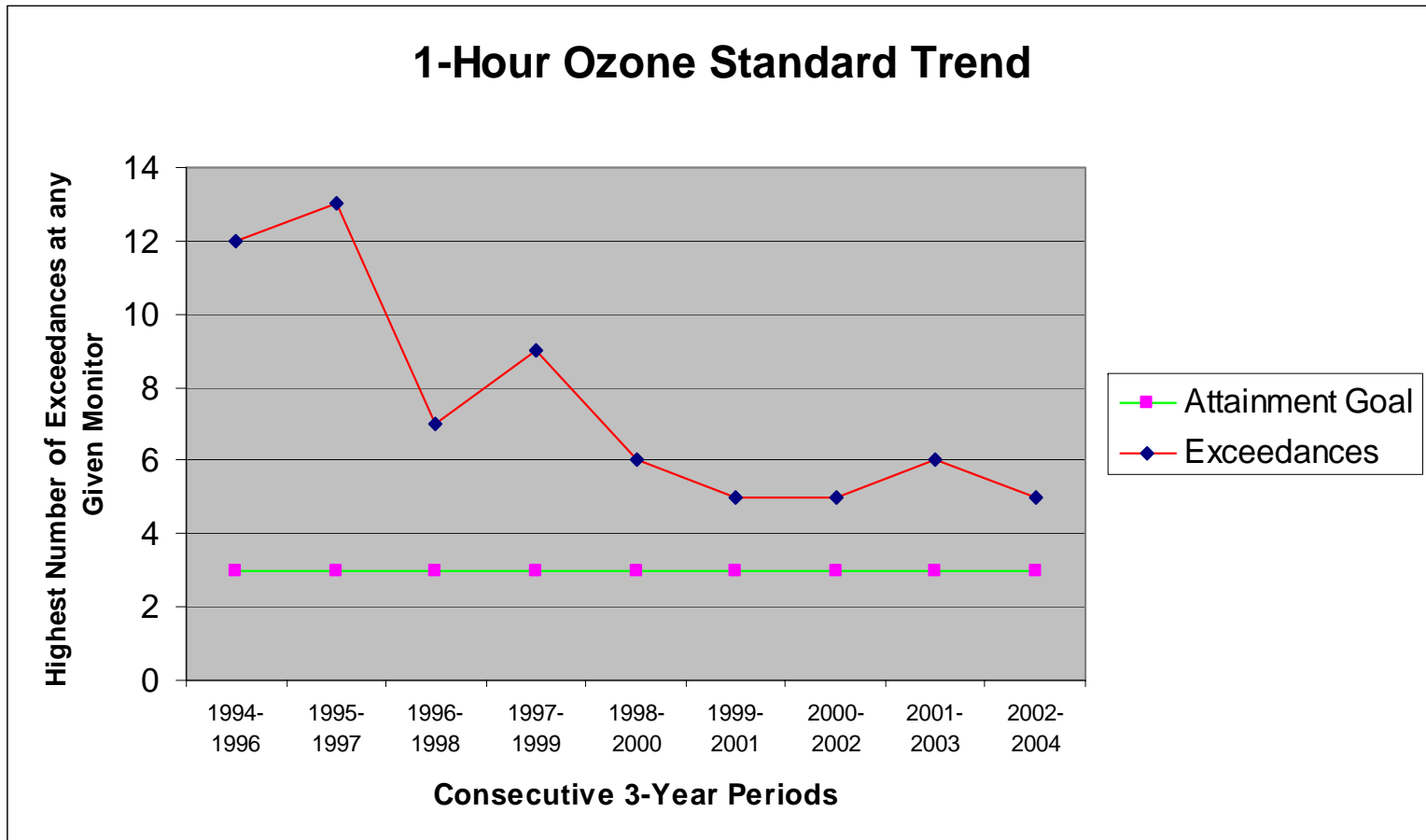
- 2007
  - June 15 8-hour SIP due to EPA (TCEQ)
    - » TCEQ & EPA working toward submitting and approving an “early” SIP
    - » TCEQ to develop & implement control strategies early as possible to provide time to reach attainment by June 2010
- 2010
  - June DFW Attainment-based on years 2007-2009

# History of 1-Hour Ozone Standard Exceedances



Data Source: TCEQ & NCTCOG

# 1-Hour Ozone Standard Trend



Data Source: TCEQ & NCTCOG

# D/FW SIP Strategies Currently In-place

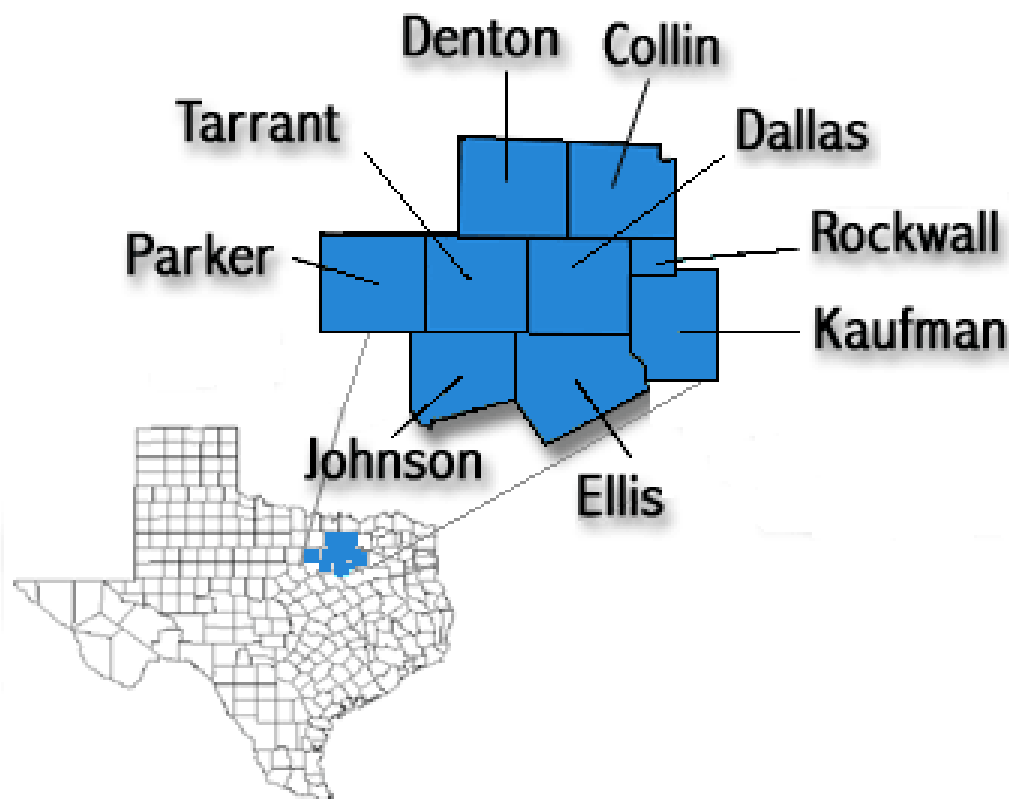
- SIP Rules
  - D/FW Electric Generating Utilities-NO<sub>x</sub>
  - Regional Electric Generating Utilities-NO<sub>x</sub>
  - Cement Kilns (East & Central Texas)-NO<sub>x</sub>
  - Vehicle Inspection & Maintenance Program
  - Vehicle Technology-Federal Tier II standards
  - Reformulated Gasoline
  - Cleaner Diesel Fuel
  - Water Heaters & Small Boilers
  - California Gasoline Engine Standards for Non-Road Equipment

# D/FW SIP Strategies Currently In-place

- SIP Commitments (locally implemented)
  - Airport Ground Support Equipment
  - Voluntary Mobile Emission Reduction Programs
  - Building Efficiency Codes
  - Transportation Control Measures
  - Speed Limit Reduction
- Legislative Activities
  - Senate Bill 5: Emission Reduction Plan
  - House Bill 2134: Auto Emissions Testing

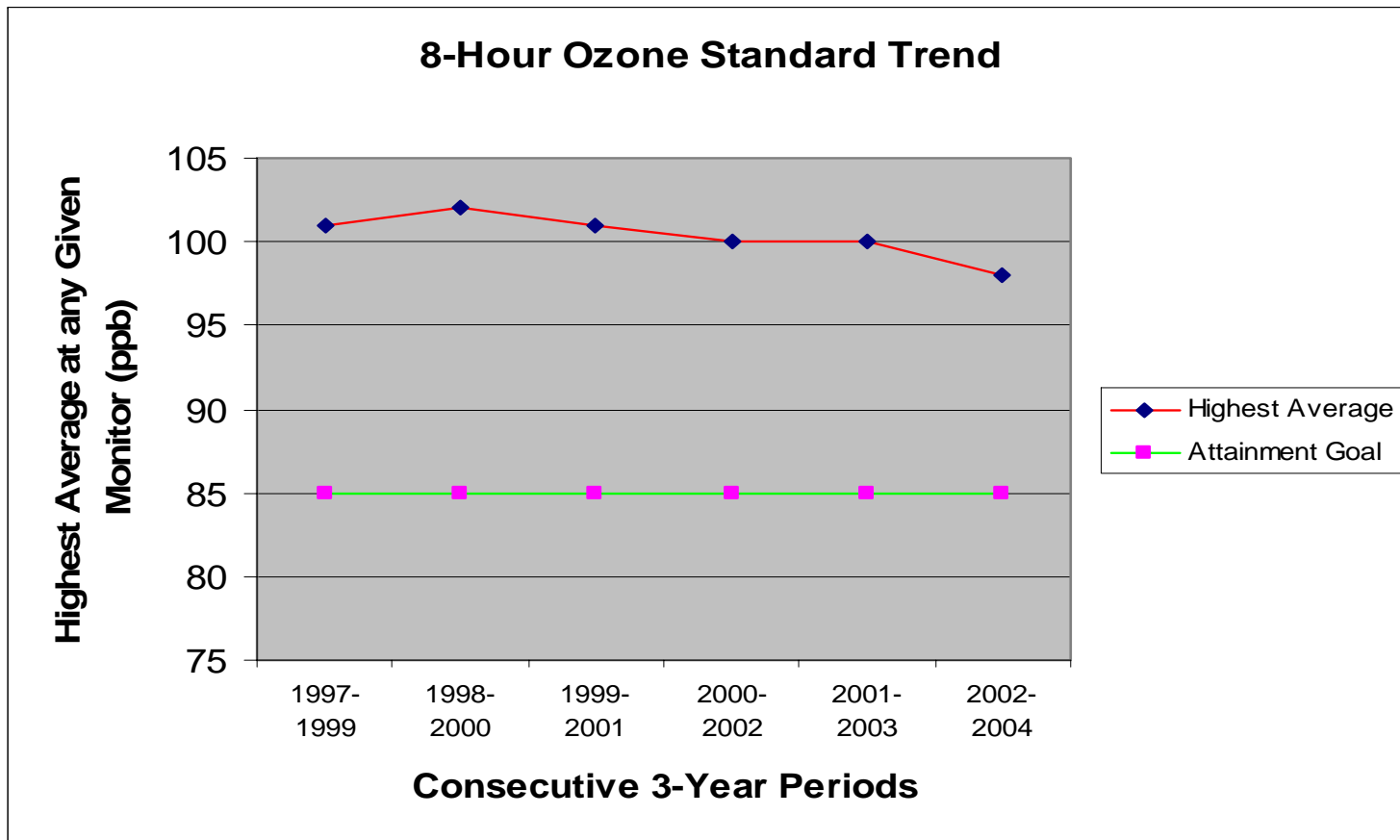
» More details are provided in Attachment 1

# 8-Hour Ozone Nonattainment Area



Data Source: TCEQ & NCTCOG

# 8-Hour Ozone Standard Trend



Data Source: TCEQ & NCTCOG

# Consequences of Nonattainment

- 2010
  - June 15
    - 18 month sanction period begins
    - New attainment SIP required with new attainment date
    - Reclassified from MODERATE to SERIOUS
    - Additional, more stringent control strategies required
    - Possible 2 to 1 emission offsets for new construction
    - Possible restrictions on highway projects
    - Possible Federal Implementation Plan
    - Possible restrictions on issuing federal project permits

# City Ozone Plan

- Components of the Plan assigned to 3 levels of Participation
- Proposing that Tier I is mandatory for all departments
- Tiers II & III are optional activities that
  - Provide other methods of reducing ozone precursor emissions
  - Prioritize methods for reducing ozone precursor emissions

# City Ozone Plan

- Tier I – Mandatory (Ozone Season)
  - Departments distribute plan to employees
  - Departments assign contact person for ozone watch days
  - Department contact person posts ozone signs on watch & warning days
  - Use flex time and alternate work schedules
  - Use and submit carpool plan
  - Sign Emissions Reduction Commitment (DART passes)
  - Report tracking (WVMT reduction)
  - Refuel gasoline vehicles only in the afternoon
  - Don't unnecessarily idle city vehicles

# City Ozone Plan

- Tier II – Optional (Minimum Watch Days-Prefer Ozone Season)
  - Schedule meetings after 10:00 AM
  - Use teleconferencing for meetings when possible
  - Use only alternative fueled vehicles before 10:00 AM (CNG, Propane, Hybrid)
  - Restrict use of diesel or gasoline powered equipment until after 10:00 AM
  - Restrict use of paints, varnishes and solvents until after 10:00 AM
  - Car pool to meetings

# City Ozone Plan

- Tier III – Optional (Minimum Watch Days-Prefer Ozone Season)
  - Cancel all non-essential vehicle trips during the day
  - Allow designated employees to work from home
  - Bicycle and walk to work
  - Allow designated employees to park fleet vehicles at or near home
  - Report other activities that will accomplish reduction of vehicle or other VOC/NOx emissions

# City Ozone Plan

- Transportation Survey
  - All employees on City email system
  - Data gathered used for calculating WVMT reductions
- WVMT Reporting
  - Reduction of miles driven to and from the workplace from alternate work schedules, car pools and DART
  - Goal > 5% reduction of emissions
- Emissions Reduction Commitment Form
  - DART Pass Holders commit to increase use during Ozone Season
- Locally Enforced Motor Vehicle Idling Limitations
  - Enforce State Rule during Ozone Season

# City Ozone Plan

- Employee Incentive Program
  - Track employee emission reduction activities
  - Rewards for participants
- City Hall Area Restaurant Guide
  - Local restaurants map/brochure
  - Employee discounts (in conjunction with DART Destination Deals)
  - Possible city shuttle for “restaurant loop” near City Hall
- City Vehicle and Equipment Emissions Inventory
  - Establish emissions baseline
  - Identify targets for emission reduction strategies

# City Ozone Plan

- Public Outreach includes
  - City, OEQ and Air Pollution Control websites
  - Downtown EarthFest celebration of Earth Day
  - Brochures
  - Commute Solutions
- City Employee Outreach includes
  - Environmental Fair Ozone Season Kick-Off at City Hall
  - Regular Ozone Announcements through email
  - Brochures with April payroll checks

# Next Steps

- Present Plan to Directors for participation & implementation
- Complete Transportation Survey
- Get Emissions Reduction Commitment, DART Pass Holders
- Obtain
  - CAO review & method needed to enforce State idling rule,
  - CAO Memorandum of Agreement with TCEQ to enforce the rule, and
  - Determination who will enforce the rule
- Finalize the Employee Incentive Program
- Develop City Hall Restaurant Guide
- Kick-off the Citywide Emissions Inventory Project on 3/24/05
- Earth Day EarthFest at SBC & Pegasus Plazas; 4/22/05
- City Hall Ozone Season Kick-Off Environmental Fair; 4/28/05