

2007 Ozone Season Summary

Presented to
Transportation & Environment Committee
January 14, 2008

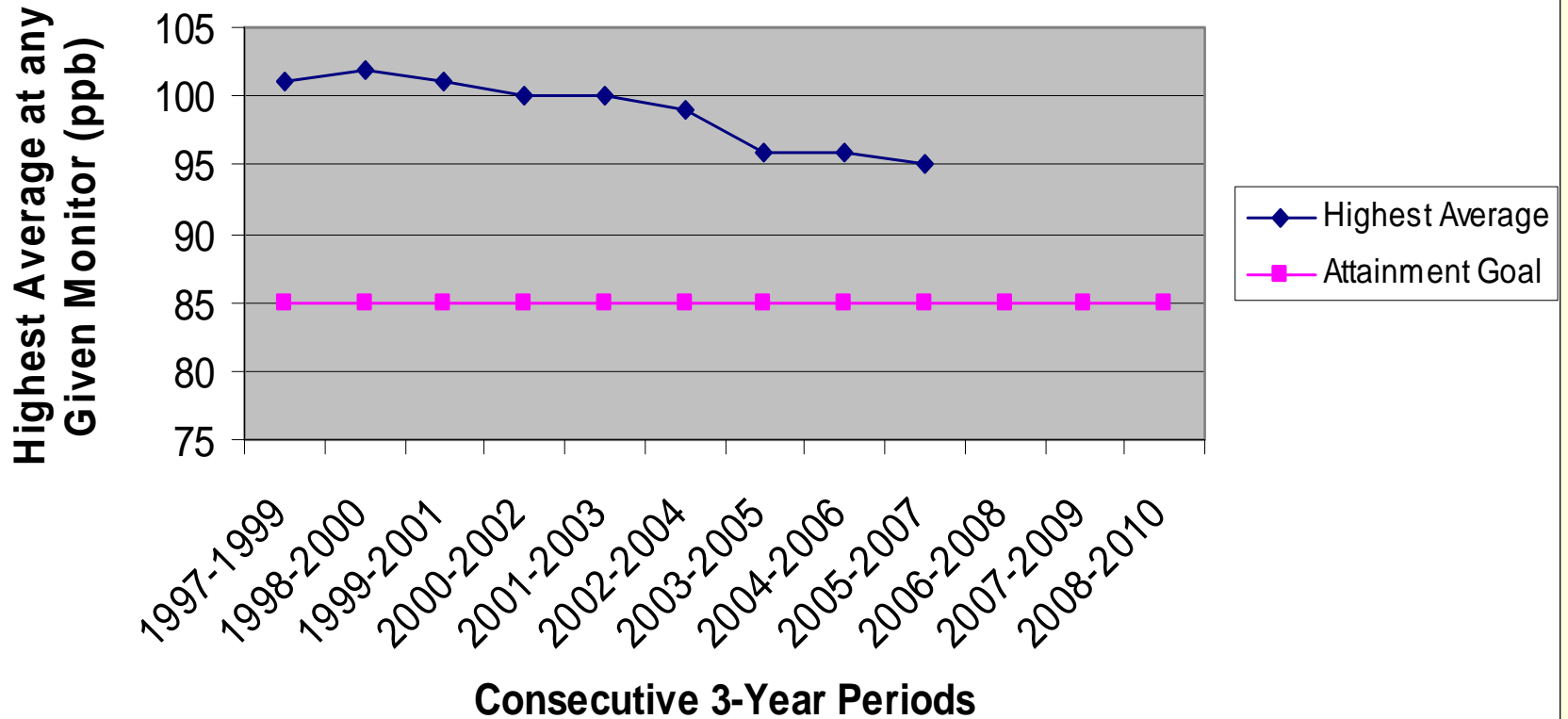
2007 Ozone Season

- 184 Days from May 1 through October 31
- 20 ozone monitors in region
- 8-hour Ozone Standard
 - Current Status: Non-attainment
 - Attainment is reached when the 3-year average of the annual 4th highest daily maximum ozone concentration at each monitor is less than 85 parts per billion (ppb)

2007 Season NAA Results

- The 4th highest daily maximum is 89 ppb occurring at sites located at Denton Airport and Grapevine
 - (2006: 100 ppb at Denton Airport)
- The 4th highest 3 year average (2005-07) is 95 ppb at a site located at Eagle Mountain Lake in Tarrant County
 - (2004-2006: 96 ppb at Eagle Mountain Lake)
- At least 11 monitoring sites have 3 year averages above the 85 ppb standard
 - (2006: at least 12 sites above standard)

Historical Trend for 8-Hour Ozone Standard



*Attainment Goal-According to the US EPA, attainment is reached when , at each monitor, the 3-year average of the annual 4th highest daily maximum 8-hour average ozone concentration is less than 85 ppb.

2007 Season NAA Results

Compared with 2006

Air Quality Index	2007 Good Ozone Days	2007 High Ozone Days	2007 High Ozone Forecast Days	2006 Good Ozone Days	2006 High Ozone Days	2006 High Ozone Forecast Days
GOOD (green)	103 (56%)			84 (45.7%)		
MODERATE (yellow)	71 (38.6%)			69 (37.5%)		
UNHEALTHY FOR SENSITIVE GROUPS (orange)		8 (4.3%)	18 (100%)		29 (15.8%)	34 (89.5%)
UNHEALTHY (red)		2 (1.1%)	0		2 (1.0%)	4 (10.5%)
VERY UNHEALTHY (purple)		0	0		0	0
TOTAL (184 days)	174 (94.6%)	10 (5.4%)	18	153 (83.2%)	31 (16.8%)	38

2007 Season NAA Results

- 174 good ozone days
- 10 high ozone days exceeded standard
 - 18 High Ozone Watch Days were forecast
 - August had most bad days and highest ozone

	Exceeded Standard	Day & Highest Ozone
May	0	
June	0	
July	2	July 25; 99 ppb
August	5	August 14; 121 ppb
September	2	September 21; 93 ppb
October	1	October 4; 86 ppb
TOTAL	10	

Proposal to Revise the National Ozone Standard

- EPA proposed to strengthen standard June 20, 2007
- Evidence indicates adverse effects occurs at levels below current standard, particularly in those with respiratory illnesses (primary-health)
- Evidence shows damage to vegetation, trees and crops; increased susceptibility to disease and reduced crop yields at lower levels of ozone (secondary)
- Revise primary and secondary standards:
 - Primary: propose range 70-75 ppb; consider range 60 ppb to current, 84 ppb
 - Secondary: (1) propose 3 month daily cumulative range 7 to 21 ppm-hours, or (2) same as primary standard
- EPA to issue final standard by March 12, 2008

Proposal to Revise the National Ozone Standard

■ Timeline:

- Signature, final rule: March 2008
- Effective date: June 2008
- State designations: June 2009
- Final designations: June 2010
- Effective date: 2010
- SIPs due: 2013
- Attainment dates: 2013-2030

2007 City Ozone Plan

- Promotes activities to reduce emissions of Nitrogen Oxides (NOx) and Volatile Organic Compounds (VOC)
- Affects all City Departments during six-month Ozone Season
- Guidelines are included for both Seasonal and Watch Day activities:
 - Hours of Work/Operations
 - Temporarily change hours of operations
 - Compressed work schedules
 - Employee commuting
 - Schedule meetings after 10:00 AM
 - Cancel non-essential vehicle trips or postpone to afternoon
 - Telework
 - Use of public transportation
 - Use a plan for carpools and public transportation traveling to and from workplace
 - Carpool to meetings
 - Encourage use of carpools and public transportation during lunch
 - Use of City vehicles and equipment
 - Defer gas/diesel vehicles use until after 10:00 AM
 - Refuel vehicles in late afternoon
 - Restrict maintenance/repair operations that require running vehicles or equipment before 10:00 AM
 - Prohibit idling city vehicles just to use air conditioner
 - Restrict use of small engines for City and contract crews before 10:00 AM
 - Restrict use of certain paints before 10:00 AM
 - Roadway Construction
 - Not allow or cause roadway construction lane closures before 10:00 AM

2007 City Ozone Plan Results

- Single occupant vehicle commuting to and from the workplace reduced 13,232,724 miles
- Commuting emissions reduced
 - 15.6 tons NOx
 - 7.4 tons VOC
 - 166.7 tons Carbon Monoxide (CO)
 - 6840.1 tons Greenhouse Gases (CO₂)
- Average of 1545 employees worked compressed schedules each month (16.7% of reduction)
- Average of 390 employees carpooled one or more days each month (8.2% of reduction)
- Average of 418 employees used DART one or more days each month (11.5% of reduction)
- Average of 111 employees Biked, Walked and Teleworked one or more days each month (1.4%)

2007 City Ozone Plan Results

for 6 month Ozone Season

- Overall, the City averaged 20.7% reduction in commuting miles and emissions from these activities and for days not working

- In addition:

- Average of 342 meetings were scheduled after 10:00 AM each month due to Ozone Season
- Average of 446 employees carpooled to those meetings each month
- Average of 721 gas/diesel vehicles were deferred for use until after 10:00 AM one or more days each month
- Average of 2,432 employees didn't drive during lunch one or more days each month (97.7% of additional activities)
- Average of 117 employees worked flexible hours one or more days each month to avoid commuting during RUSH hours

2007 City Ozone Plan Results

by Department

Department	2007	2007	2007	2006	2005	2004
	Miles	Emissions (tons)	%*	%*	%*	%*
Aviation	220,684	117.2	29.4	32.6	33.5	16.2
Business Dev	38,819	20.6	16.4	19.5	14.1	-
City Attorney	63,574	33.8	8.6	-	-	-
City Auditor	46,053	24.5	25.3	26.7	34.2	-
CMO	33,841	18.0	11.6	-	-	-
City Secretary	11,017	5.9	10.1	-	22.5	-
Civil Service	18,582	9.9	17.8	-	25.1	-
Code	378,684	201.2	22.4	12.3	4.3	3.6
CIS	196,994	104.7	26.3	19.7	21.2	-
Convention	132,544	70.4	25.7	20.0	25.2	-
Courts	167,544	89.0	18.2	18.2	27.6	10.4
Cultural Affairs	90,327	48.0	28.4	27.1	18.0	32.3
Dallas Fire	1,718,667	913.0	17.9	25.0	17.1	10.0
Dev Services	208,925	111.0	15.5	15.4	15.3	3.1
Economic Dev	94,227	50.1	44.7	16.3	-	-
ERF	11,590	6.2	12.1	-	-	-
EHS	381,974	202.9	18.9	17.1	23.0	17.3

2007 City Ozone Plan Results

by Department

Department	2007	2007	2007	2006	2005	2004
	Miles	Emissions (tons)	%*	%*	%*	%*
EBS	484,449	257.4	24.4	16.7	14.3	12.2
Financial Ser	139,251	74.0	17.8	-	-	17.1
Housing	202,429	107.5	59.5	25.3	25.8	20.6
HR	71,340	37.9	17.0	30.6	24.5	-
Judiciary	31,307	16.6	20.1	-	-	-
Library	891,920	473.8	36.4	29.2	35.9	29.2
OEM	3,325	1.8	9.5	6.7	18.5	-
OEQ	31,469	16.7	34.5	18.6	14.0	-
Parks	886,627	471.0	19.1	18.0	22.4	12.5
Police	2,524,455	1341.1	13.6	-	9.1	3.6
Public Works	580,921	308.6	27.1	22.5	23.2	13.3
Sanitation	732,552	389.2	29.9	22.1	17.5	8.3
Streets	531,957	282.6	19.0	18.0	-	22.3
Water	2,259,923	1200.6	32.2	21.3	18.4	10.7

* % reduction within the department

2008 City Ozone Plan Measurement

- Mid-year 2007; OEQ & EHS purchased a Web-based Software System (“Dallas GreenRide”)
- System consultant is currently designing web pages for data input & reports specific to City of Dallas requirements
- Early 2008; Final product review and evaluation by OEQ, EHS and others
- Early 2008; Promote “Dallas GreenRide” to City employees in anticipation of 2008 Ozone Season
- May 1, 2008; Replace existing Ozone Season data gathering and reporting process with “Dallas GreenRide” Program

‘Dallas GreenRide’

- Similar to website currently in use by North Central Texas Council of Government’s Commute Solutions; “www.tryparkingit.com”
- Individually, City employees set up personal profiles and provide carpool matching information
- Employees log alternative commutes and other emission reduction activities
- Employees are able to ‘track’ their emissions ‘savings’ individually
- “Dallas GreenRide” administrative section tracks and reports activity, commuting miles reductions and emissions reductions citywide

'Dallas GreenRide'

My Page: Profile and Carpool Matching

GreenRide | My Page

http://www.cityofdallas.greenride.com/en-US/user/mypage.aspx




Home > My Page

WELCOME TO YOUR GREENRIDE PERSONAL INFORMATION PAGE

[Edit My Account](#)



You can immediately see your list of potential matches and keep a log of your carpool miles by choosing the links below. You can also edit your profile information by using the buttons to the right.

 Before searching for matches please complete your profile. Items that need your attention are labeled to the right.



Name:	Nicole Cooper
Email Address:	nicole.cooper@dallascityhall.com
Matchable:	Active/Matchable

Start Address:		<input type="button" value="Edit"/> 
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Destination Address:		<input type="button" value="Edit"/> 
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'Dallas GreenRide'


Admin: Activity Summary

GreenRide | Activity Summary

http://www.cityofdallas.greenride.com/admin/reports/activity.aspx



Administration - Activity Summary

From: 

To: 



Report Date Range: Thursday, November 01, 2007 - Friday, November 30, 2007

User Activity

Total Users: 8 users
Users Added: 8
Users Deleted: 0

'Dallas GreenRide'

Admin: Commute Tracker

GreenRide | CommuteTracker http://www.cityofdallas.greenride.com/admin/reports/commutetracker.aspx



HOME SUPPORT MY PAGE **ADMINISTRATION** LOGOUT

Administration > CommuteTracker

From: 

To: 

[Get Report](#) 

The totals below are based on CommuteTracker data entered by users between **11/1/2007** and **11/30/2007**.

CommuteTracker Totals

Total Trips Reduced: 0 trips

Total Miles Saved: 0 miles

Gallons of Fuel Saved: 0 gallons

Total Emissions Reduced: 0 lbs

1 of 3 12/5/2007 10:37 AM

'Dallas GreenRide'

Admin: Emission Reductions

GreenRide | Emission Reductions

http://www.cityofdallas.greenride.com/admin/reports/emissions.aspx



Administration > Emission Reductions

From: 

To: 



Report Date Range: Thursday, November 01, 2007 - Friday, November 30, 2007

General Statistics

Day Range: 30 days
Registered Users: 8 users
Average Commute Distance: 14.34 miles (one-way)