





State of Ozone Attainment for Central Texas

November 3rd, 2009

Texas Hill Country Chapter of SESA
Quarterly Meeting

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CLEAN AIR Force of Central Texas



Top 10 CAF Questions

1. What does the CAF do?
2. Why is improving air quality important?
3. What are the causes of air pollution in Central Texas?
4. How did the Big Push go?
5. How is our region's air quality currently?
6. What's new on the horizon?
7. How will that affect me as a Central Texas resident?
8. How will that impact the semiconductor industry?
9. How can I help?
10. How can I find out more information?



CLEAN AIR Force Mission

Five Counties, One Goal:
Clean Air for Central Texas



CLEAN AIR Force Programs:

- Ozone Email Alert Program
- High School PSA Contest
- Car Care for Clean Air Day
- Clean School Bus Program
- Electric Lawnmower Discounts
- Clean Air Partners Program
- Transportation Pilot Project

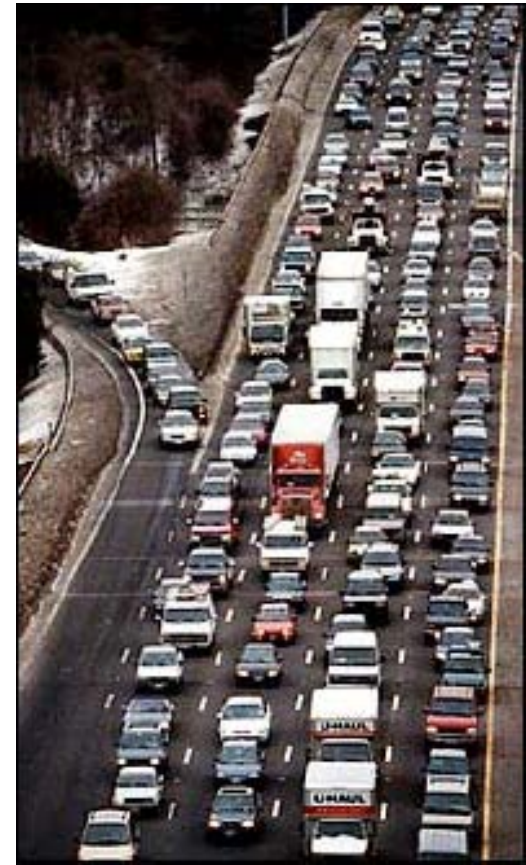


ENVIRONMENTAL DEFENSE FUND

finding the ways that work

VMT Perceptions and Demand Survey Central Texas 2009

April 2, 2009



Austin is Under-Performing

- Top ranked metro cities VMT per person, per day

1.	New Orleans, LA	15
2.	New York, NY	16
3.	Sacramento, CA	18
4.	Portland, WA	19
5.	Philadelphia, PA	19
6.	Buffalo, NY	20
7.	Chicago, IL	21
8.	Pittsburg, PA	22
9.	Providence, RI	22
10.	Salt Lake City, UT	23
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35.	San Antonio, TX	27
38.	Dallas, TX	28
41.	Austin, TX	30
51.	Houston, TX	37

Source: City Dividends (CEOs for Cities) and Department of Transportation



Why is improving AQ important ?

- Children's Health
 - Spend more time outdoors
 - Breathe more air than adults on a relative basis
- Asthmatics
- Elder Population
- Healthy adults
 - Construction and other outdoor workers
 - Exercising individuals

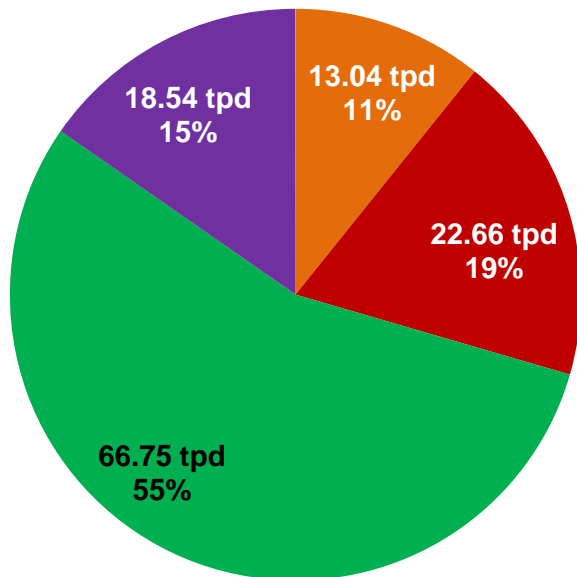


Asthma

- Afflicts 22 million Americans
 - 6 million children
- 11 million visits to doctor's office
- 14 million missed school days
- 1.8 million E.R. visits
- 5,000 deaths
- Estimated economic burden: \$14 billion

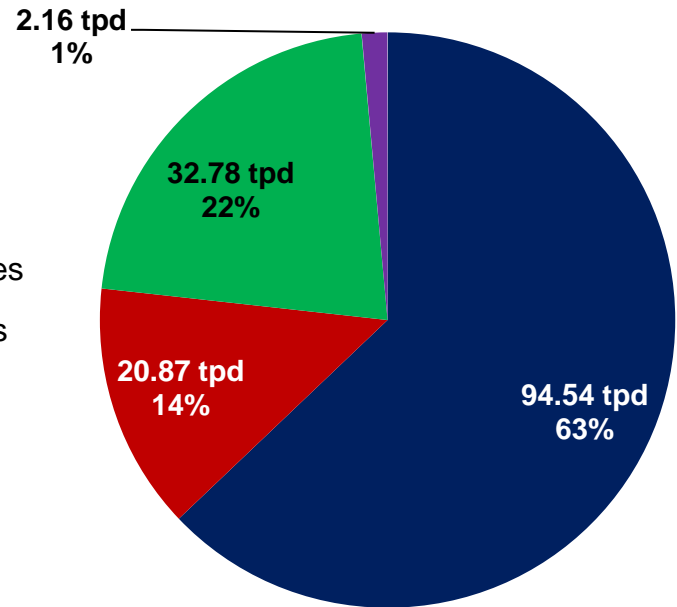
Anthropogenic Sources of NOx and VOC in the A-RR MSA (2007)

2007 NOx Emissions



- Area Sources
- Nonroad Mobile Sources
- Onroad Mobile Sources
- Point Sources

2007 VOC Emissions





The '09 BIG PUSH in Central Texas

- The “Big Push” is our region’s expanded effort to keep ozone levels in compliance this ozone season
- Central Texas citizens, governments and businesses are being encouraged to DO MORE
- Why? Because if we reduce the levels at our ozone monitors this summer (our last chance to reduce our regional ppb), we can avoid a nonattainment designation
- The CLEAN AIR Force and CAPP challenged all employers to reduce more emissions this summer via commute solutions and energy saving strategies



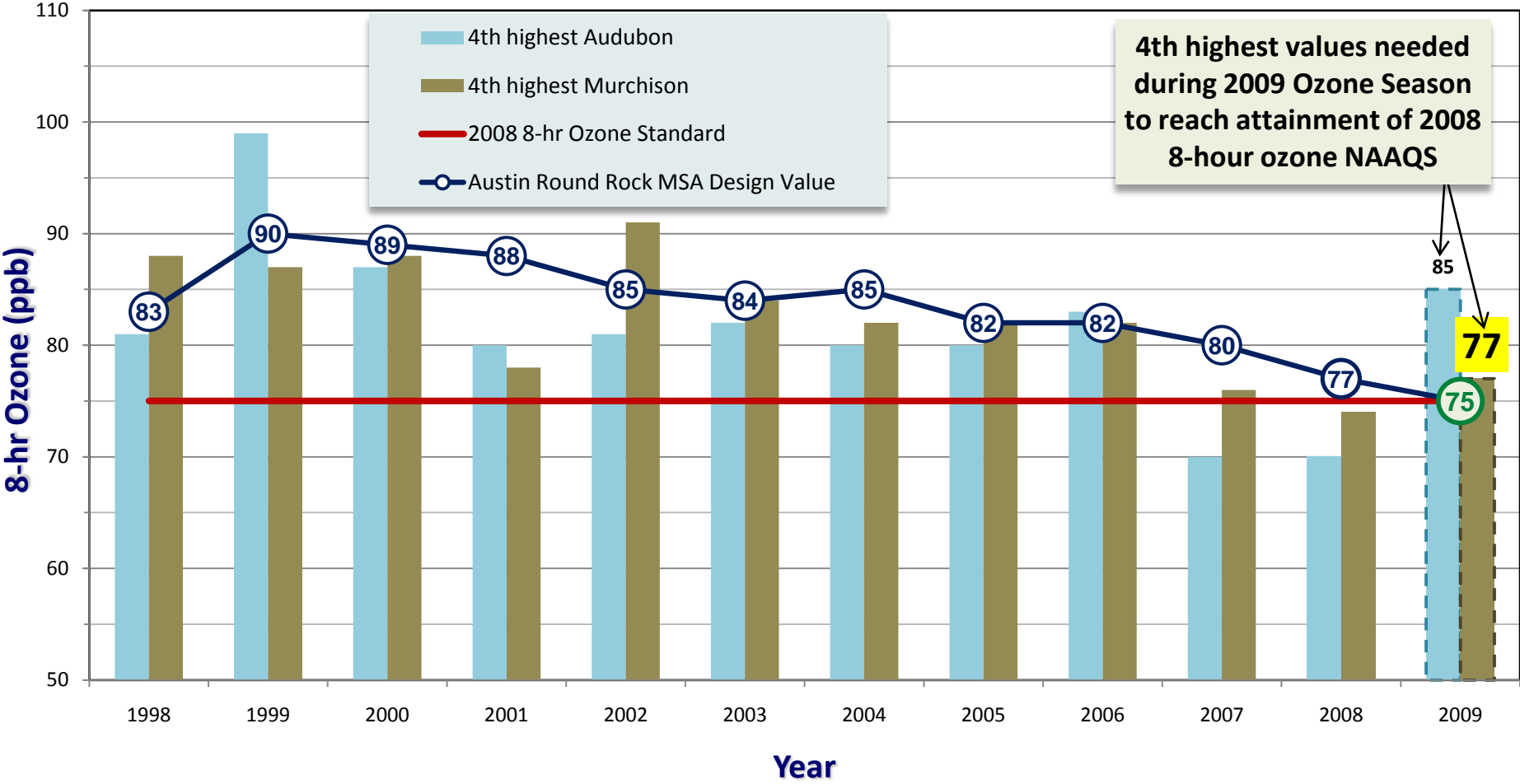
Air Quality Status in Central Texas

- Central Texas has been on the verge of being declared as nonattainment of the Federal air quality ozone standard set by EPA
- Our region has successfully avoided becoming a nonattainment area by being proactive in air quality efforts
- New developments on the horizon...



Design Value and Monitored Ozone Concentrations

Austin-Round Rock MSA





Big News as of September 16, 2009

EPA will reconsider the ozone standard in order to:

- Protect public health
- Protect the environment



Expected Schedule

- December 2009 - Proposed New Ozone Standard
- August 2010 - Final Ozone Standard
- August 2011 - Final Designations by EPA
- December 2013 - State Implementation Plans (SIPs) Due
- 2013 – 2030 (?) - Attainment deadlines



If the standard is set to a more stringent level, the challenge to retain our attainment status becomes more difficult.



Economic Impacts of Nonattainment Status

Nonattainment status means governmental restrictions on our local transportation and businesses:

- Enforced emission equipment and controls will increase costs to employers and consumers
- Restrictions placed on existing business expansions or new business operations
- Loss or delay of Federal transportation funding for transportation needs in our region (roads, congestion reduction, transit, etc.)



Air Permitting Issues

- Requirements for VOC and NO_x control in 30 TAC 117 would come into play
- Depending on the level of nonattainment, there are different thresholds for being classified as being a “major” site and being required to obtain a Title V permit
- There are similar levels of “significance” for new project emissions increases, which could result in being required to obtain a Nonattainment New Source Review (NNSR) permit



How Can You Help?



Ozone Email Alerts

To sign up for free alerts by email go to www.cleanairforce.org and simply enter your email address





Having trouble reading this email? [Click here for a web version.](#)

Please see the following notice from the CLEAN AIR Force of Central Texas...

Central Texas is Under a

LEVEL ORANGE OZONE WATCH

For Friday, June 5, 2009

Conditions are **forecast** to be favorable for high ozone levels on the date listed above. The Ozone Watch is valid for the next day so that citizens, businesses and industry can plan ahead to take steps to reduce the pollutants that contribute to ozone formation.

Air Quality



The AQI Air Quality Scale

Friday, June 5, 2009

Ozone **WATCH**

The area affected by this Ozone **WATCH** encompasses the Central Texas region of Hays, Travis, Williamson, Caldwell and Bastrop Counties.

Individuals with chronic lung disease, such as asthma and emphysema, as well as the elderly and young children, are particularly sensitive to ground-level ozone and should attempt to avoid exposure by minimizing exertion outdoors. For more information on ground level ozone, please visit www.cleanairforce.org and the [Texas Commission on Environmental Quality](http://www.texascommissiononenvironmentalquality.org).

You can reduce air pollution emissions by simply doing the following:

- **Limit Your Driving on Ozone Watch Days**

Combine errands or share a ride. Visit River Cities Rideshare at www.rivercitiesrideshare.com to find someone to carpool with.

- **Ride the Bus**

[Click here](#) for bus routes.

- **Avoid Idling**

Skip the drive-thru lane and park and go inside instead. For information on heavy-duty vehicle idling restrictions, please see www.enr.noaa.gov.

- **Postpone Refueling Your Vehicle Until After 6 p.m.**

Also, don't top off the tank to prevent the escape of emissions.

- **Postpone Mowing Your Lawn and Using Gas-Powered Equipment Until After 6 p.m.**

- **Tune Up Your Vehicle**

A well-maintained car operates efficiently and cleanly.

WHAT IS AN OZONE WATCH?

You will be notified by **email a day in advance**, generally by 2 p.m., when there is an Ozone Watch which occurs when conditions are **forecast** to be favorable for high ozone levels the following day in Central Texas. The Ozone Watch is valid for the next day so that citizens, businesses and industry can plan ahead to take steps to reduce the pollutants that contribute to ozone formation. Proactive steps include telecommuting, carpooling, combining errands into one trip, and refueling after 6 p.m. Please visit www.cleanairforce.org and www.cleantechalerts.org for more information on examples of proactive measures.

WHAT IS AN OZONE WARNING?

An Ozone Warning means that high levels of ozone are **currently being measured** at one or more monitoring sites in the Central Texas area. You will be notified by email approximately 20-30 minutes after the hour when the high ozone was measured and the warnings continue in effect as long as high ozone levels are measured.

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Main Message for 2010: Drive Less

- **Public Transit** – CapMetro bus/rail, CARTS, subsidized passes, tax/insurance benefits
- **Biking & Walking** – Bike routes/trail systems, on-site amenities, health benefits
- **Vanpools** – CapMetro program; tax/insurance benefits
- **Carpools** – River Cities Rideshare www.rcride.com; CapMetro Green Ride; work pools; tax/insurance benefits
- **Teleworking** – Home-to-work telework software, teleconferencing
- **Flexible Schedules** – Avoiding peak traffic; staggering shifts
- **Compressed Work Weeks** – 4/10's or 9/9's allowing days off
- **Carsharing Programs** – Austin Carshare
- **CAF Transportation Pilot Project**



Electricity Use is Also Important

- Reduce electric use in the late morning and early afternoons to lower energy bills and help AQ
- Delay electric use to until the evening
- Smart grid
- Renewable energy



Other Tips

- Idle less – turn your vehicle off
- Delay mowing or refueling until after 6 pm
- Use electric lawn equipment vs. gas-powered
- Maintain your vehicle
- Stop refueling when the gas pump clicks
- Drive the speed limit
- Encourage your company to become a CAP

Where can I learn more?

- Local: www.cleanairforce.org
- State: http://www.tceq.state.tx.us/nav/main/air_main.html
- National: <http://www.epa.gov/air/basic.html>



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