

# Update on Northeast Texas Ozone Summer 2006

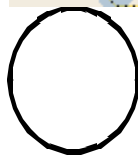
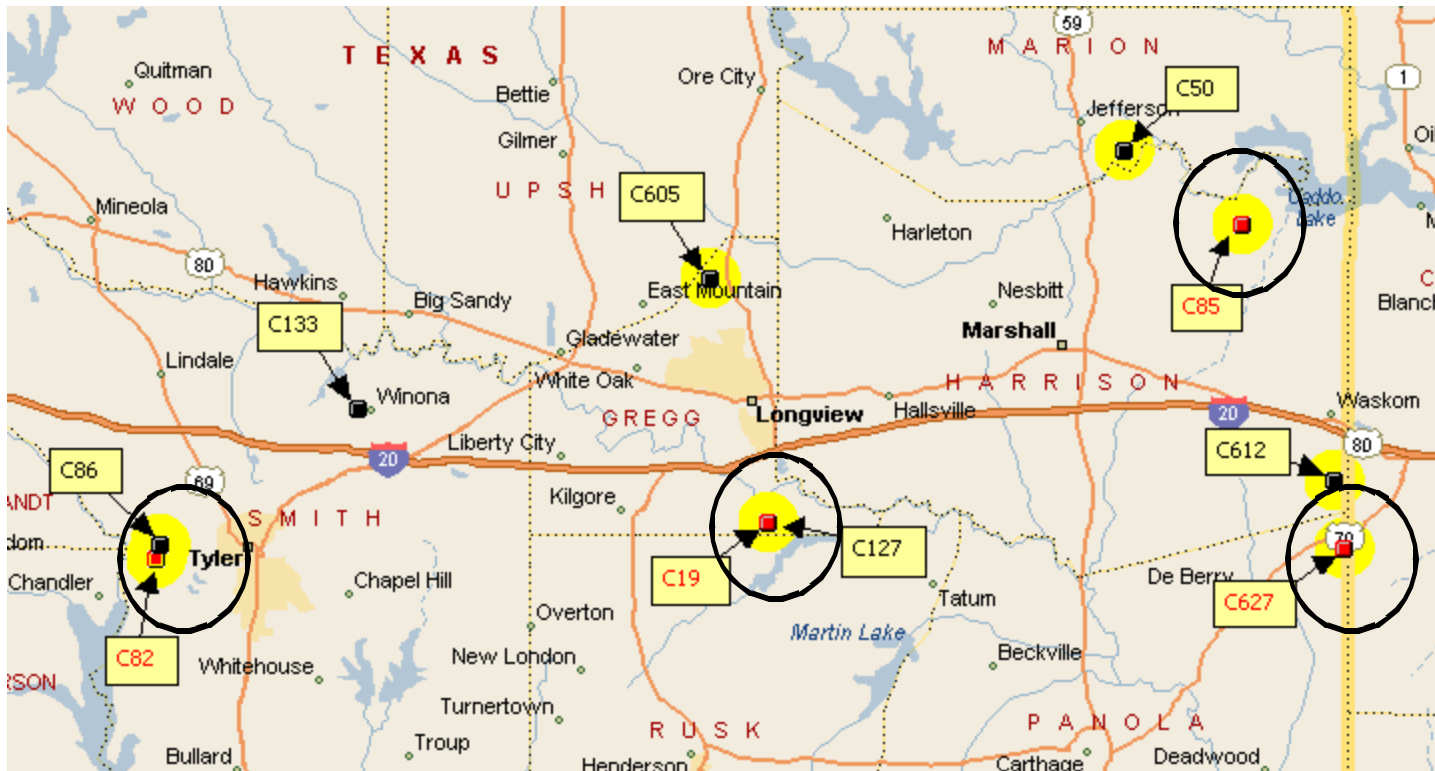
Presentation to the NETAC  
Technical and Policy Committees

August 10, 2006

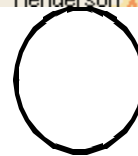
## Introduction

- EPA's 8-hr ozone standard attained at 84 ppb (running 3-yr average of the 4<sup>th</sup> high)
- Longview needs a 2006 4<sup>th</sup> high of 83 ppb or lower to remain below the standard
- As of August 8, Longview's 2006 4<sup>th</sup> high stands at 84 ppb
- Review recent ozone trends and high ozone days at Longview

# Northeast Texas Ozone Monitors

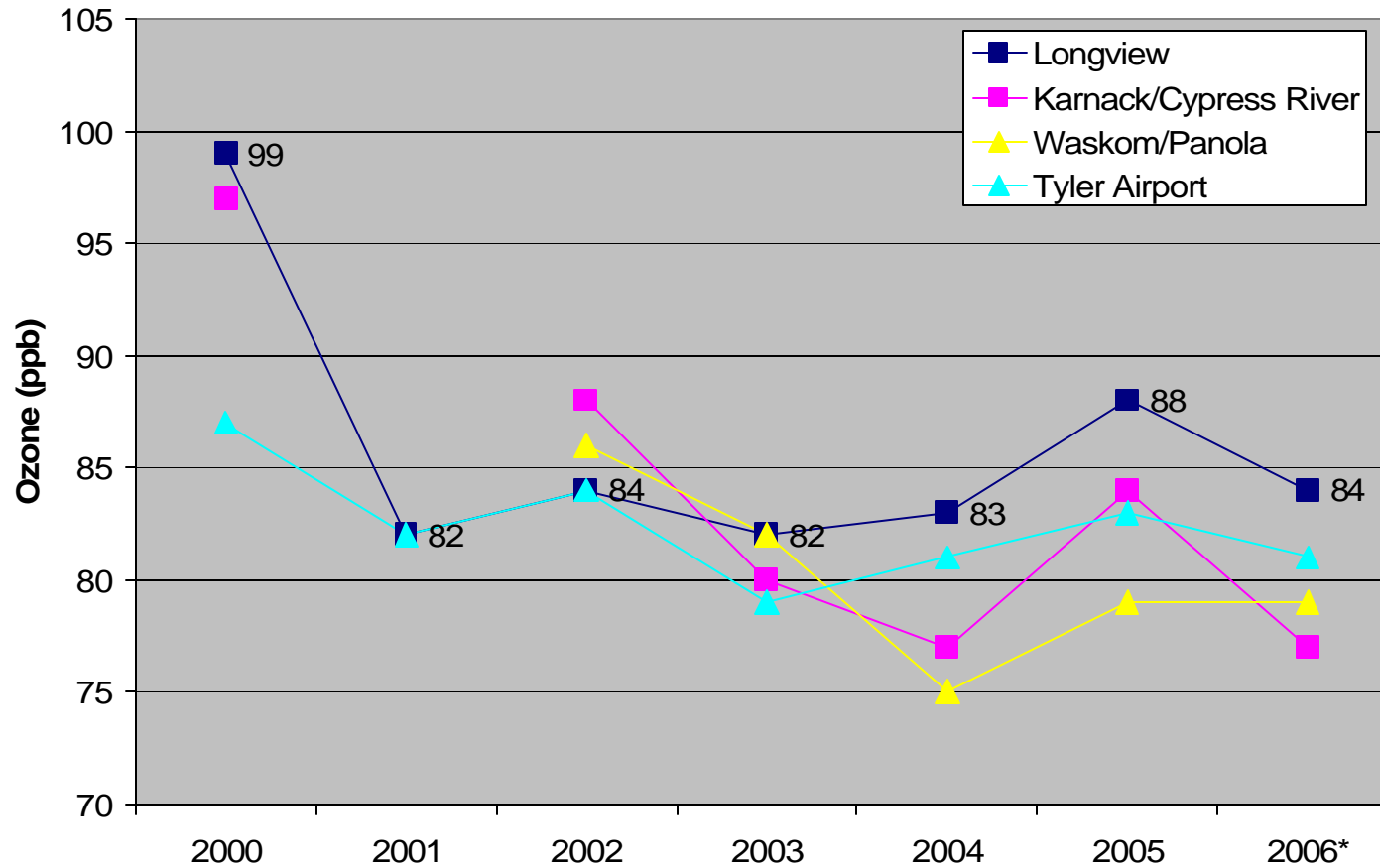


TCEQ CAMS



NETAC Research Monitor

# Trends in Annual 4<sup>th</sup> Highest Ozone



\* 2006 data through Aug 8

## 2006 Longview High Ozone Days

Day	Longview 8-hr ozone (ppb)	Potential Explanation
6/12/2006	90	Northerly winds aloft, ~20 ppb higher ozone at Longview with SO <sub>2</sub> . Titus County power plant?
7/18/2006	84	High regional background with local stagnation/east winds (89 ppb at Tyler). Local EGU(s) impacted Longview but added little ozone
6/30/2006	84	Regional transport (Southeasterly) with small unidentified local contribution at Longview
6/29/2006	84	Regional transport (Easterly) with some unidentified local contribution at Longview

\* 2006 data through Aug 8

## 2005 Longview High Ozone Days

Day	Longview 8-hr ozone (ppb)	Potential Explanation
5/22/2005	94	Southeasterly winds, ~40 ppb higher ozone at Longview with SO <sub>2</sub> . Martin Lake power plant impact
5/27/2005	90	Southerly winds, ~15 ppb higher ozone at Longview with SO <sub>2</sub> . Martin Lake power plant impact?
6/22/2005	88	Easterly winds, ~15 ppb higher ozone at Longview with SO <sub>2</sub> . Pirkey power plant impact
6/15/2005	88	Northerly winds, ~15 ppb higher ozone at Longview with SO <sub>2</sub> . Titus County power plant impact?

No other days exceeded 84 ppb at Longview in 2005

# 8-hr Ozone Design Values

3-Year Average	Longview	Tyler	Karnack	Panola*
2001 - 2003	82	81	84	N/A
2002 - 2004	83	81	81	N/A
2003 - 2005	84	81	80	N/A
2004 - 2006 <sup>#</sup>	85	82	79	N/A

\* Panola is a research site

# 2006 data are preliminary through Aug 8; the final 2004 - 2006 design values could be higher depending upon ozone in the remainder of 2006

# Conclusions

- Longview's design value will stand at 85 ppb or higher after 2006
- Longview high ozone results from local contributions, often combined with high regional background
- Year-to-year variations in ozone are mostly driven by the weather
- Significant improvement in ozone since late 90's thanks to local NO<sub>x</sub> reductions (1-hr SIP revision and EAC Clean Air Action Plan)