

# Update on the Dallas-Fort Worth Eight-Hour Ozone Attainment Demonstration State Implementation Plan (SIP)

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(TCEQ)

Presented to:  
The Society of Texas Environmental Professionals  
September 9, 2008



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- **DFW Area**
  - **DFW Area SIP Status**
  - **2008 Eight-Hour Ozone Standard**



# DFW AREA





## DFW Area

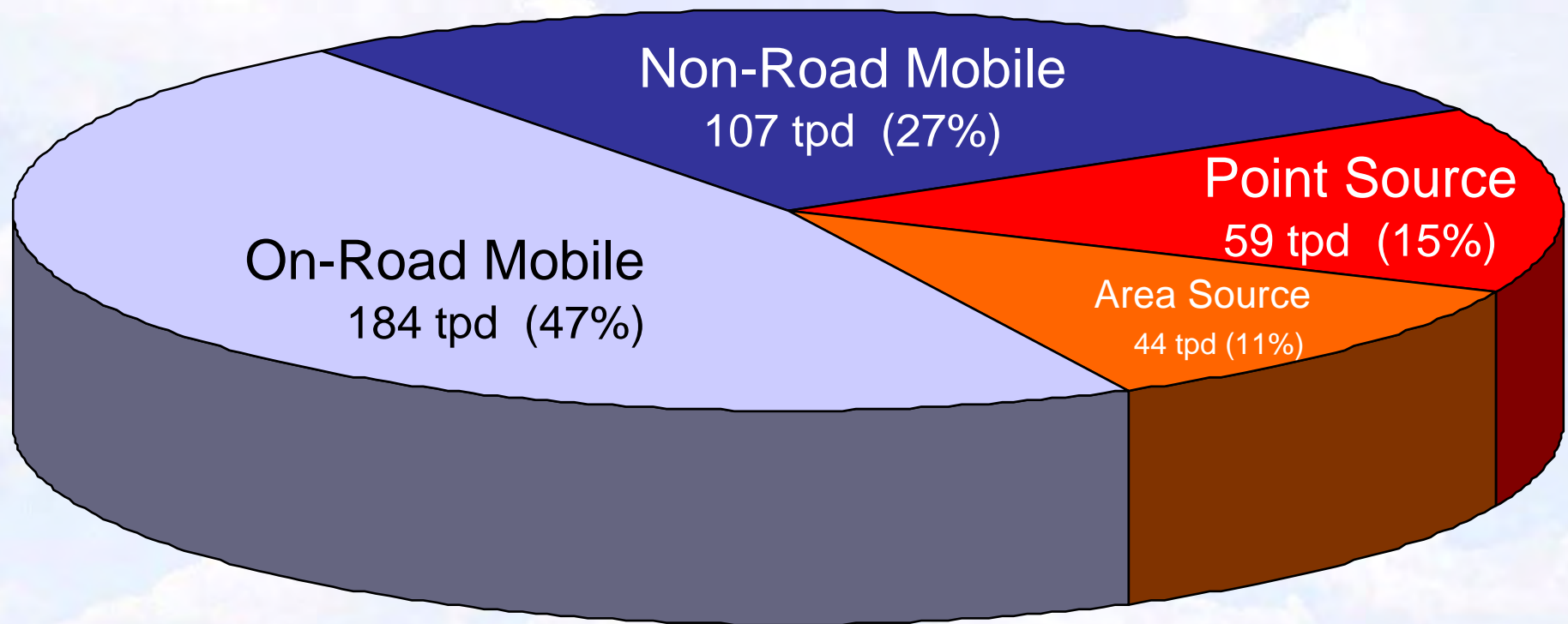
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- Moderate nonattainment status for the 1997 eight-hour ozone standard
- June 15, 2010, attainment date
- The EPA is reviewing the DFW SIP Revisions (attainment demonstration and reasonable further progress).
- DFW's 1997 eight-hour design value for 2005-2007 is 95 ppb.



# 2009 Modeling Inventory

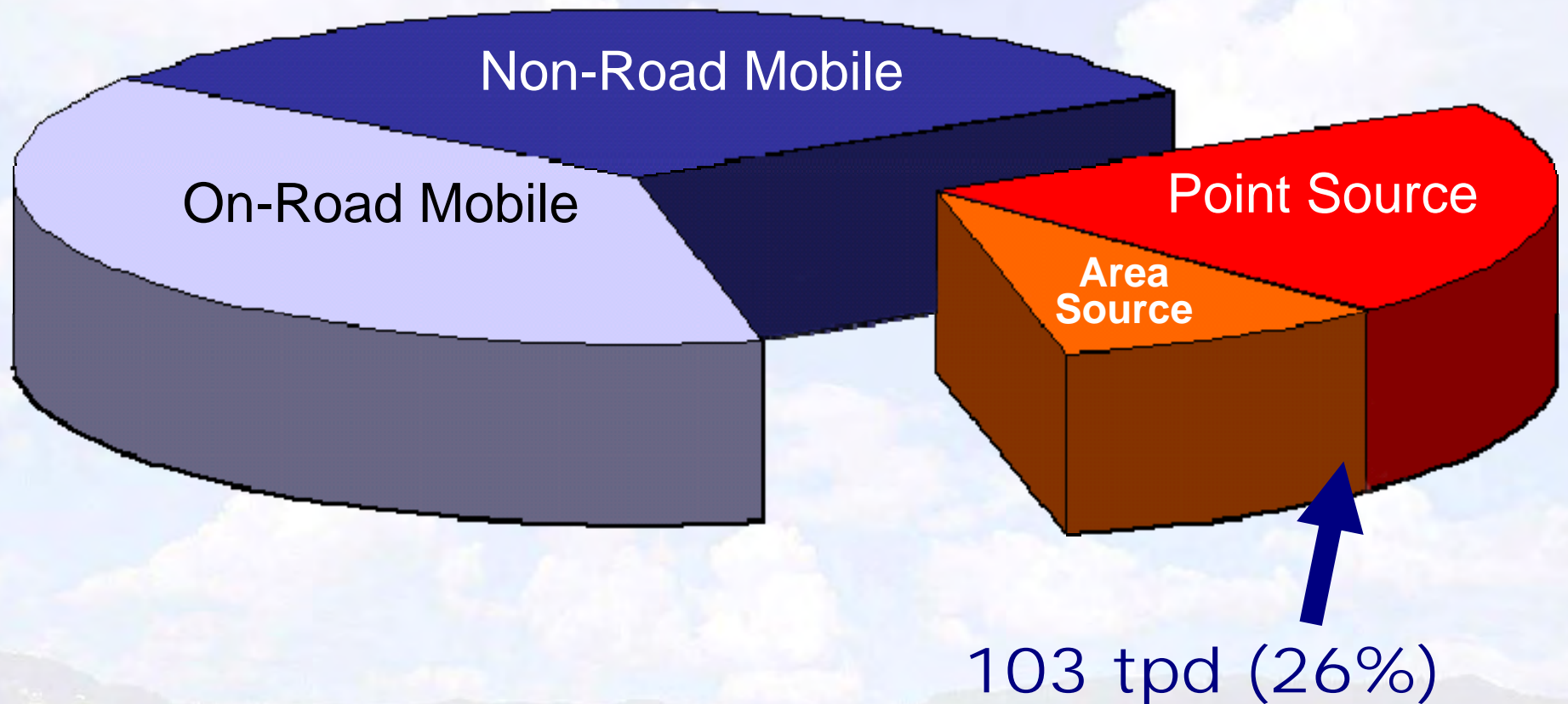
## 9-County Dallas/Fort Worth NO<sub>x</sub>





# NO<sub>x</sub> Sources Directly Regulated by TCEQ

## 9-County Dallas/Fort Worth NO<sub>x</sub>



Source: a2 Modeling Inventory  
TCEQ Contact: Pete Breitenbach  
Updated: 11/28/2006



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# DFW AREA SIP STATUS





## DFW Area SIP Status

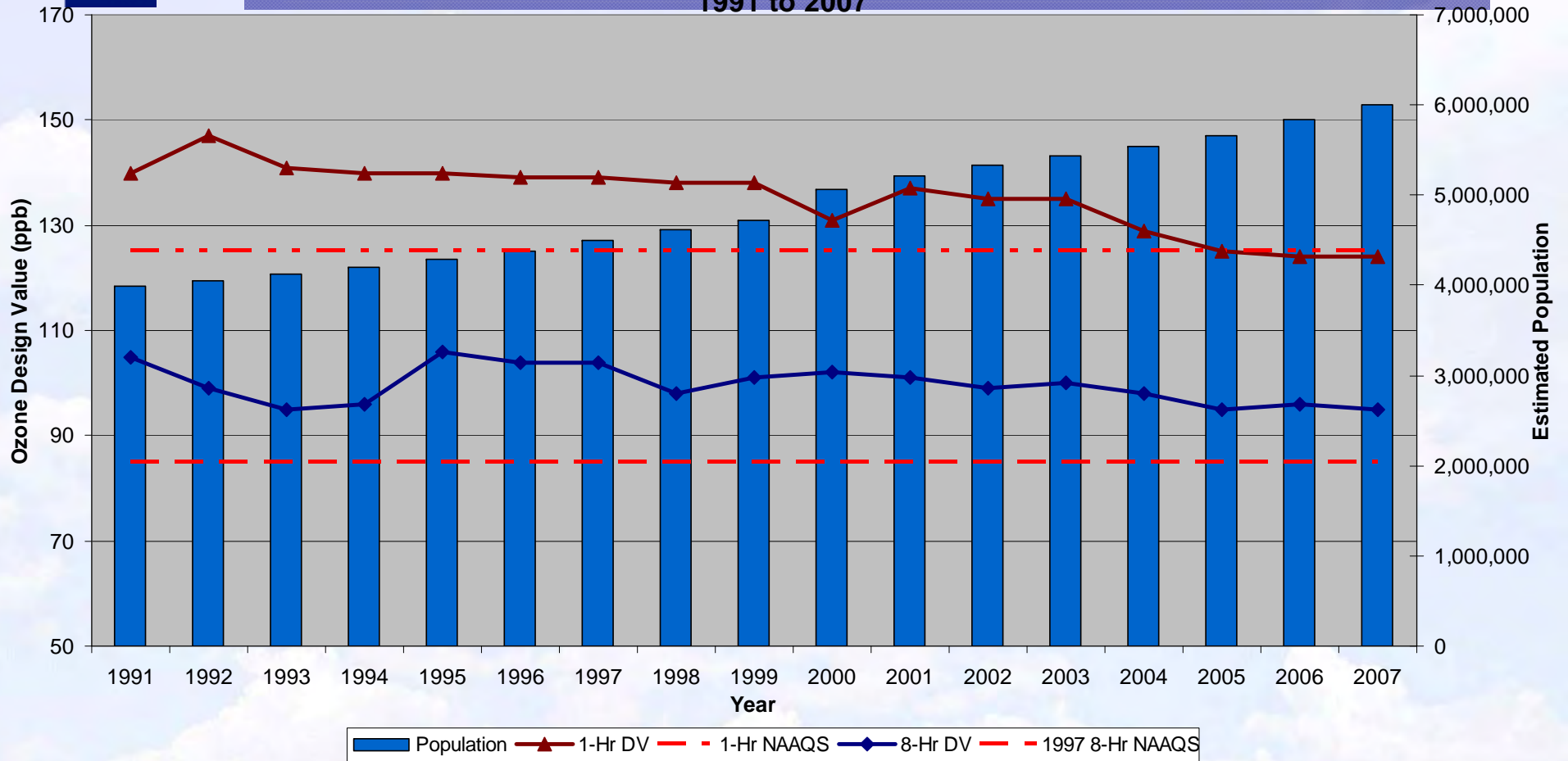
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- SIP Revisions submitted to the EPA on June 15, 2007:
  - 1997 Eight-Hour Ozone Attainment Demonstration SIP, including 30 TAC Chapter 117 NO<sub>x</sub> rule revisions requiring reductions from:
    - Power plants
    - Major industrial, commercial, and institutional sources
    - Minor industrial, commercial, and institutional sources
    - Cement kilns
    - East Texas combustion sources

<http://www.tceq.state.tx.us/implementation/air/sip/sipstrategies.html>
  - Reasonable Further Progress SIP



## Dallas-Fort Worth – Estimated Population and Ozone Design Values, 1991 to 2007



\*Source: Ozone -- EPA's AQS database.

1991-2007 Population --<http://www.census.gov/popest/archives/1990s/MA-99-03b.txt> and <http://www.census.gov/popest/counties/CO-EST2007-01.html>, May 9, 2008



## DFW Area SIP Status

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- In April 2008, the TCEQ provided supplemental information to the EPA, clarifying the DFW Attainment Demonstration SIP, per their request.
- In July 2008, the EPA published in the *Federal Register* proposed conditional approval of the 1997 eight-hour ozone attainment demonstration SIP.
  - Final action by the EPA on the May 2007 Attainment Demonstration SIP is expected by December 2008.
- The EPA required conditions to be met by Texas for approval of the DFW AD SIP are adoption and submittal of:
  - Contingency Plan SIP Revision
  - Discrete Emission Reduction Credits (DERC) Rule and SIP Revision to limit the use of, beginning in March 2009



## DFW Area SIP Status

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- A supplemental DFW SIP revision addressing a contingency plan and DERCS was proposed on August 6, 2008, together with DERCS rule revisions.
  - Public hearings on the proposed SIP and rule revisions are scheduled for September 9 and 10 in Dallas and Arlington. The public comment period for the proposed DFW SIP and DERCS rule revisions opened on August 6, and closes on September 12, 2008. Web site:  
<http://www.tceq.state.tx.us/implementation/air/sip/dfw.html#New>
- The proposed SIP is being separated into two SIP revisions. The SIP revision for contingency measures is scheduled for adoption consideration on November 5, 2008, and the SIP revision and rule for DERCS is scheduled for the December 10 agenda.



# 2008 Eight-Hour Ozone Standard





# Ozone NAAQS

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- 1997 Ozone NAAQS:
  - 8-Hour Ozone: 0.08 ppm
- 2008 Revisions to the Ozone NAAQS:
  - 8-Hour Ozone: 0.075 ppm



## New Rounding Conventions

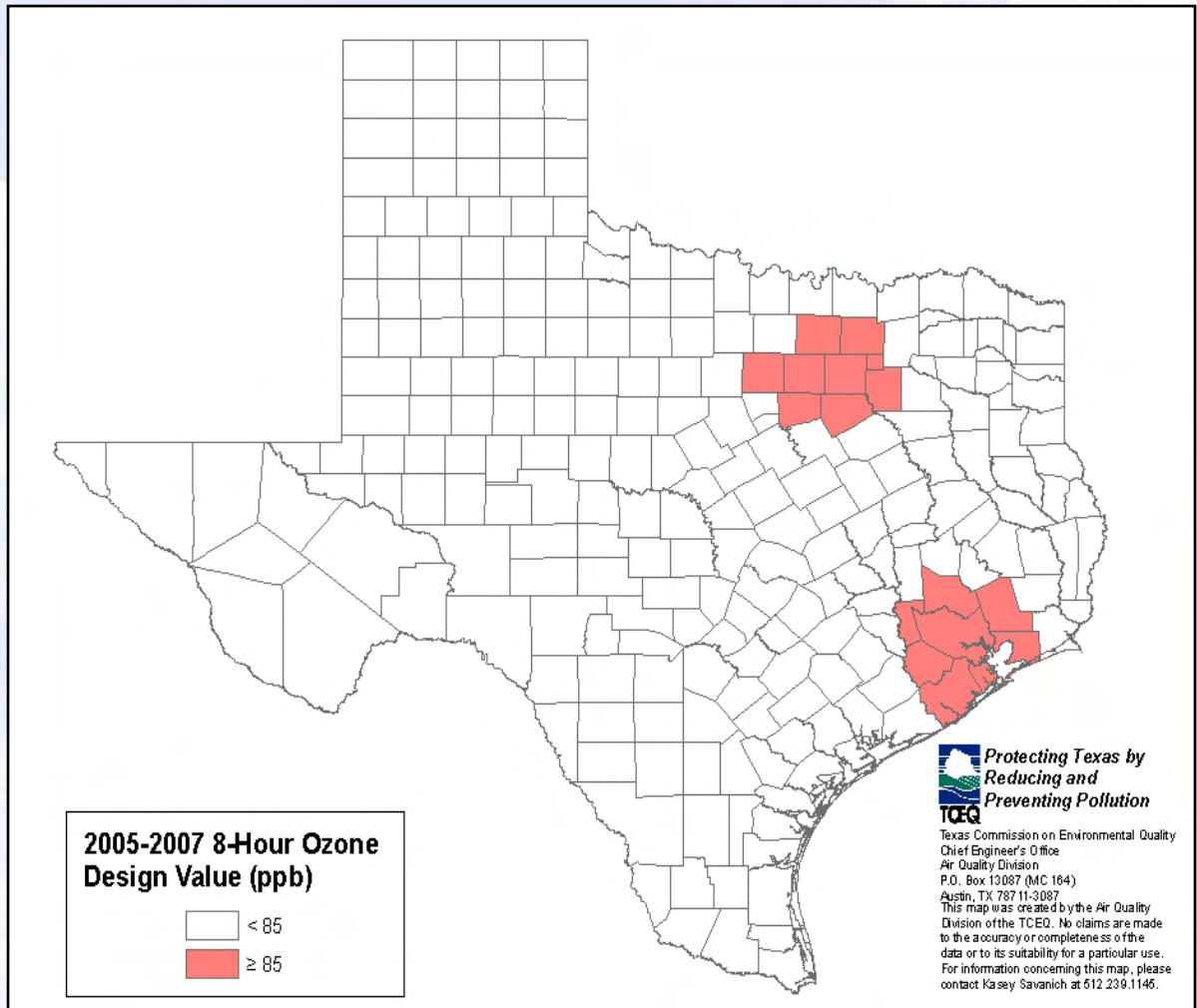
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- Note that the 1997 8-hour ozone standard was reported to two decimal places.
  - 0.084 ppm → 0.08 ppm → **ATTAINMENT**
  - 0.085 ppm → 0.09 ppm → **NONATTAINMENT**
- The 2008 standard is reported to three decimal places. Rounding is no longer necessary. (Anything past three decimal places is still truncated).
- Example - For the 2008 standard of 0.075 ppm:
  - 0.075 ppm → **ATTAINMENT**
  - 0.076 ppm → **NONATTAINMENT**



# Areas Monitoring Over the 1997 Ozone Standard of 0.08 ppm

Region	2007 8-Hr Ozone DV (ppb)*
HGB	96
DFW	95

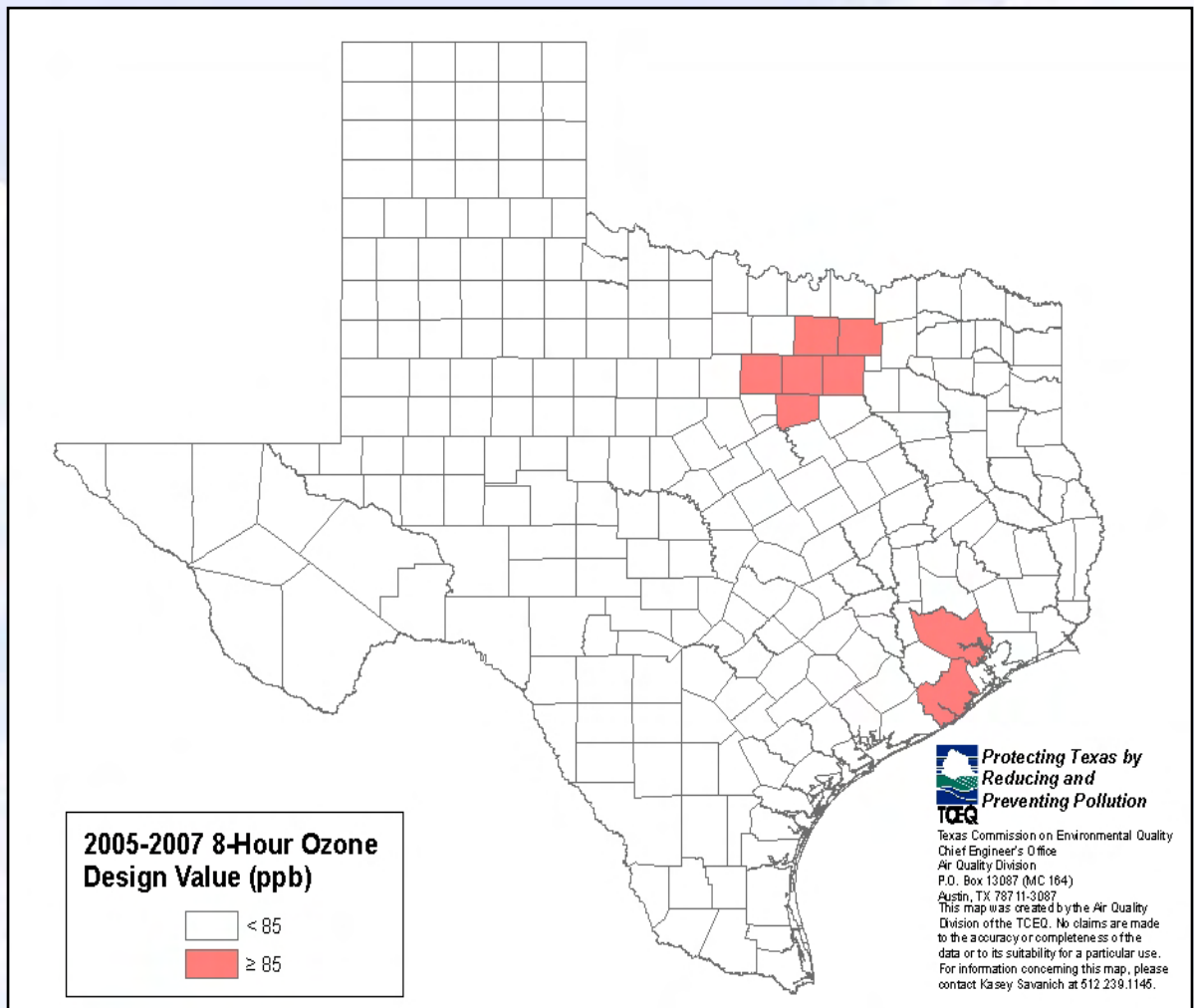


\*2007 design values based on average of 2005 to 2007 data. To exceed the old ozone standard the design value must be greater than or equal to 85 ppb.



# Counties Monitoring Over the 1997 Ozone Standard of 0.08 ppm

Region	County	2007 8-Hr Ozone DV (ppb)*
HGB	HARRIS	96
HGB	BRAZORIA	91
DFW	TARRANT	95
DFW	DENTON	94
DFW	PARKER	91
DFW	COLLIN	88
DFW	DALLAS	86
DFW	JOHNSON	85

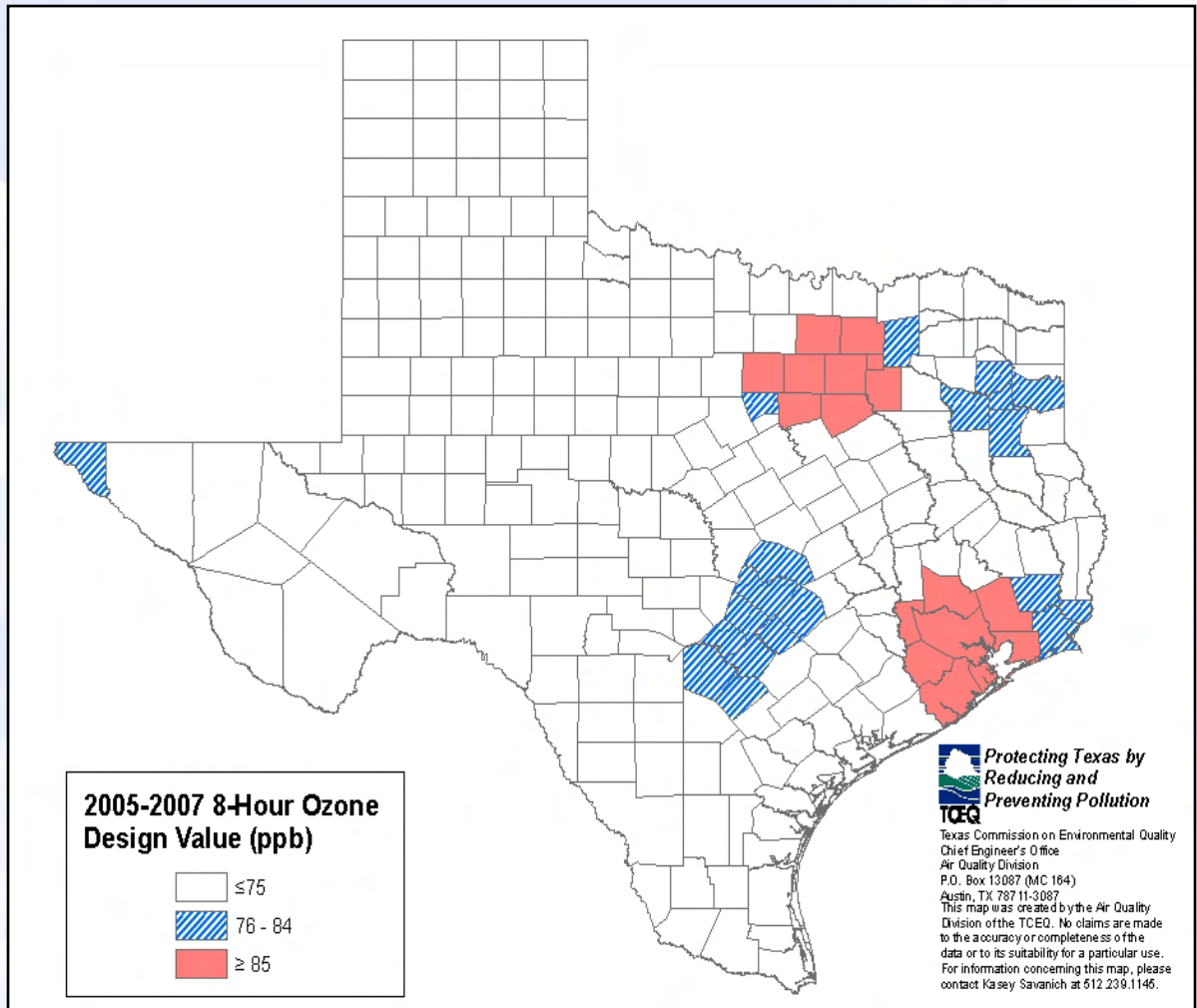


\*2007 design values based on average of 2005 to 2007 data. To exceed the old ozone standard the design value must be greater than or equal to 85 ppb.



# Areas Monitoring Over 2008 Ozone Standard of 0.075 ppm

Region	2007 8-Hr Ozone DV (ppb)*
HGB	96
DFW	95
DFW (Hood County)	84
DFW (Hunt County)	76
TLM	84
BPA	83
SAN	82
AUS	80
ELP	79

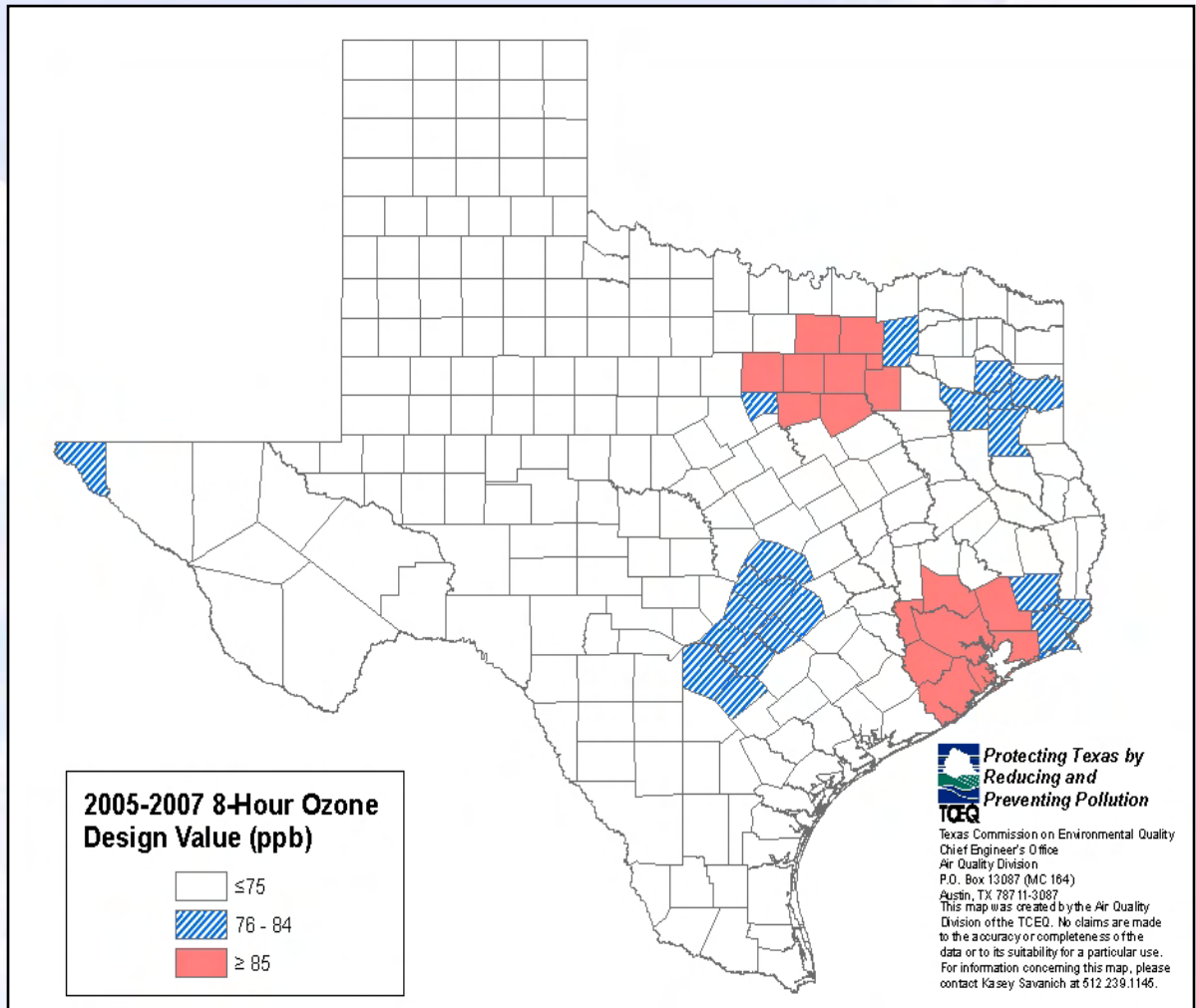


\*2007 design values based on average of 2005 to 2007 data. To exceed the revised standard the design value must be greater than or equal to 76 ppb.



# Counties Monitoring Over the 2008 Ozone Standard of 0.075 ppm

Region	County	2007 8-Hr Ozone DV (ppb)*
HGB	HARRIS	96
HGB	BRAZORIA	91
HGB	GALVESTON	84
HGB	MONTGOMERY	84
DFW	TARRANT	94
DFW	DENTON	94
DFW	PARKER	91
DFW	COLLIN	88
DFW	DALLAS	86
DFW	JOHNSON	85
DFW	HOOD	84
DFW	ROCKWALL	78
DFW	ELLIS	78
DFW	HUNT	76
DFW	KAUFMAN	76
TLM	GREGG	84
TLM	SMITH	80
TLM	HARRISON	77
BPA	JEFFERSON	83
SAN	BEXAR	82
AUS	TRAVIS	80
ELP	EL PASO	79



\*2007 design values based on average of 2005 to 2007 data. To exceed the revised standard the design value must be greater than or equal to 76 ppb.



# The TCEQ Process

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- Meetings held across the state in July
- Draft recommendation package being developed for work session in late October
- The TCEQ recommendation to the Governor in early 2009
- State recommendation to the EPA by March 2009



# The EPA's Example Timeline for the 2008 Standard

<b>Milestones</b>	<b>Date</b>
Signature-Final Rule	March 2008 Published in the <i>Federal Register</i> March 27, 2008
Effective Date of Rule (60 days after publication in the <i>Federal Register</i> )	May 27, 2008
State Designation Recommendations to the EPA	March 2009 (based on 2006-2008 monitoring data)
Final Designations Signature	Approximately June 2010
Effective Date of Designations	Approximately 2010
SIPs Due	Approximately 2013
Attainment Dates	2013-2030 depending on classification



# Contact Information

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## Contact Information

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