

HGB SIP Update and Implications of the New 8-Hour Standard for Texas

Greg Nudd, P.E.
Air Quality Division, TCEQ
October 23, 2008
Austin, Texas





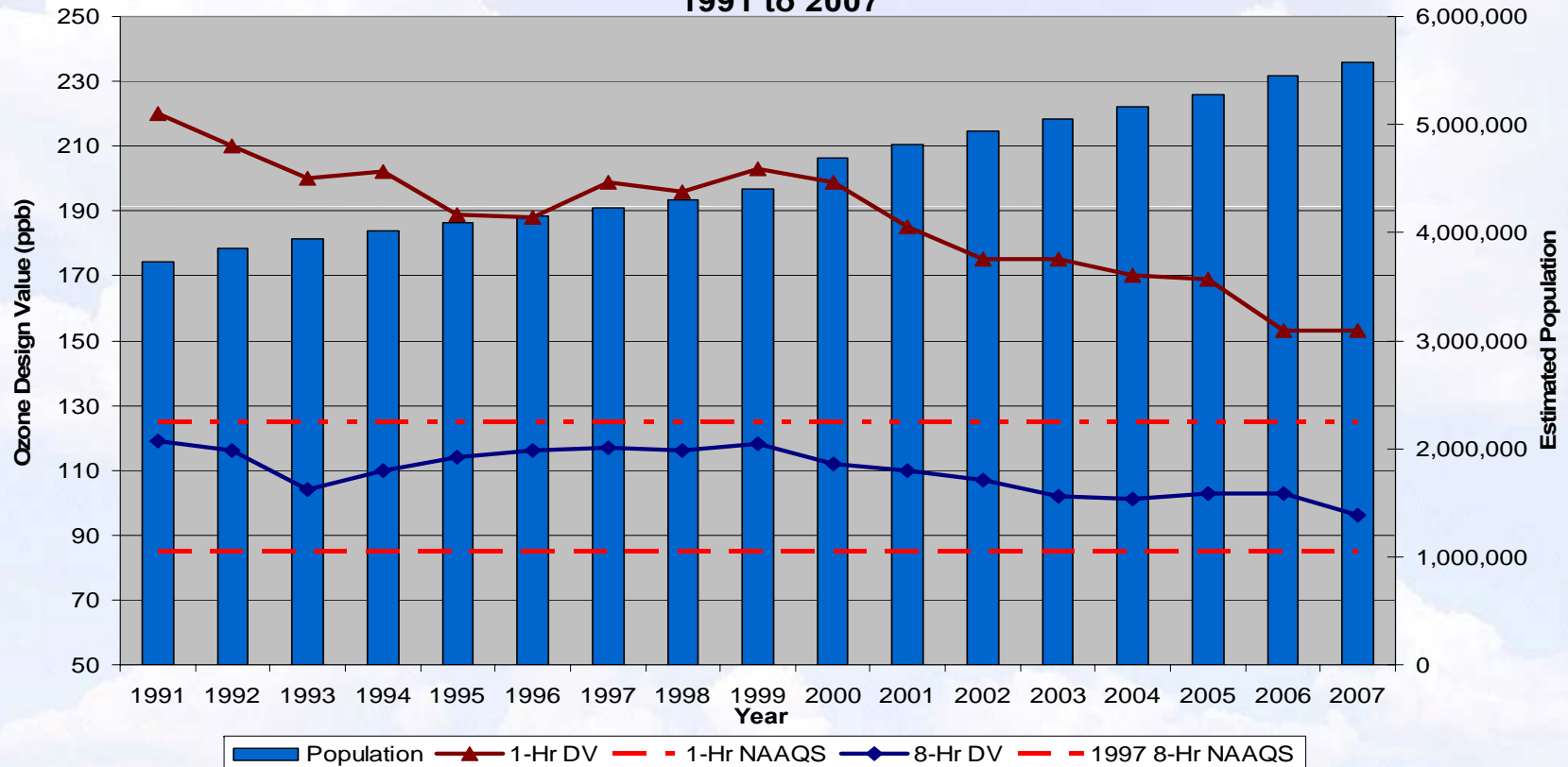
Houston-Galveston-Brazoria SIP Update

- The HGB 1997 Eight-Hour Ozone State Implementation Plan (SIP) was submitted to EPA in June 2007.
 - Moderate (June 15, 2010, attainment date)
 - Includes rule revisions and local emissions reductions but does not demonstrate attainment of the standard
- On June 15, 2007, the Governor submitted a request to EPA for reclassification from moderate to severe
- On September 19, 2008, EPA approved reclassification of HGB from moderate to severe.
 - Reclassification to severe is effective Oct. 31, 2008
 - Attainment date: as expeditiously as practicable, but, no later than June 15, 2019
 - Technical work on SIP concludes approximately March 2009
 - SIP submittal deadline of April 15, 2010



Houston-Galveston-Brazoria SIP Update

Houston-Galveston-Brazoria – Estimated Population and Ozone Design Values,
1991 to 2007

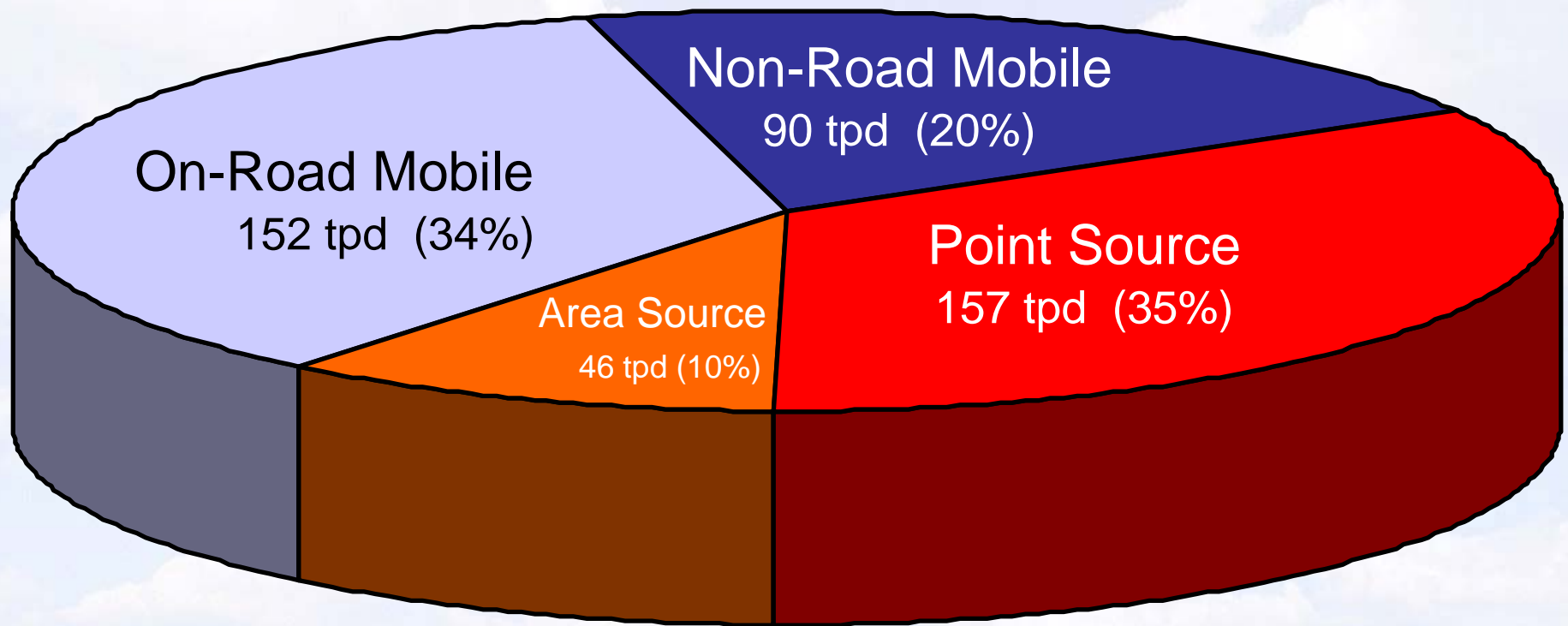


*Source: Ozone -- EPA's AQS database.

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

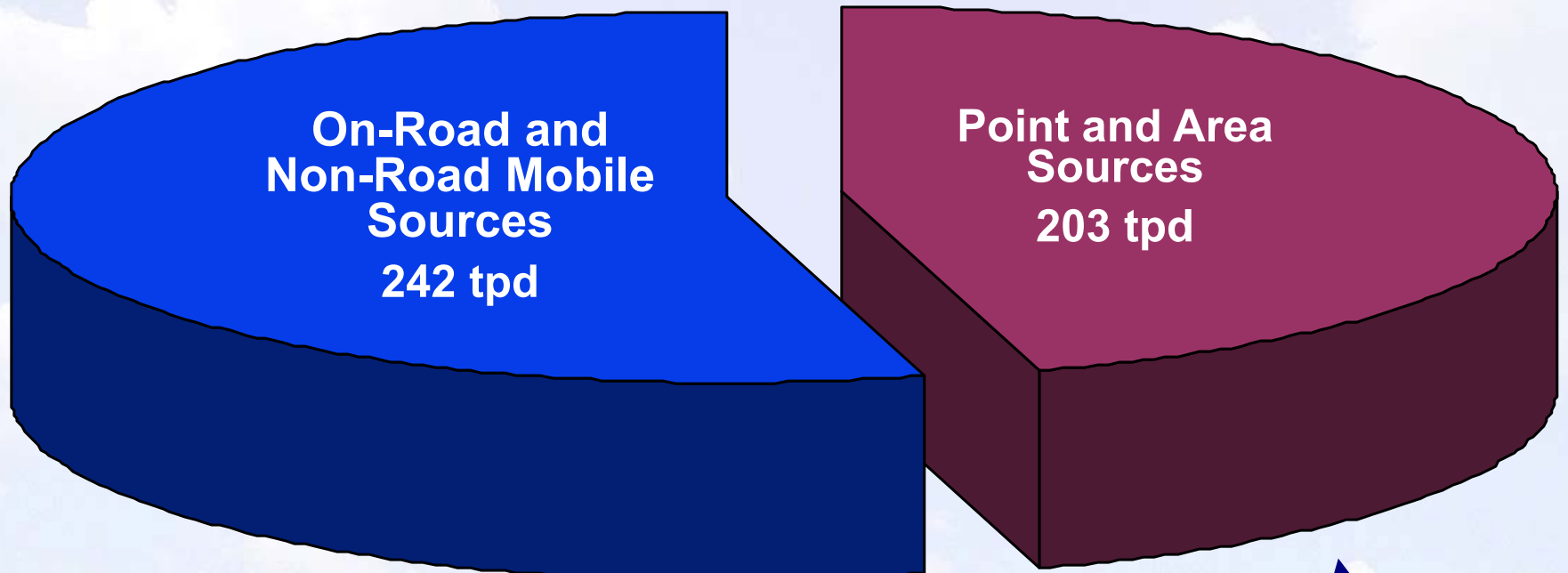


HGB 8-Hour Ozone Area NO_x (2009 future base modeling inventory)





HGB 8-Hour Ozone Area NO_x (2009 future base modeling inventory)



*NO_x Sources Directly
Regulated by TCEQ: 46%*



New Eight-hour Ozone Standard

- The EPA has recently revised the ozone standard
- Old, 1997 ozone standard:
 - Eight-hour average ozone: 0.08 ppm
 - Exceeding at 85 ppb
- Revised, 2008 ozone standard:
 - Eight-hour average ozone: 0.075 ppm
 - Exceeding at 75 ppb



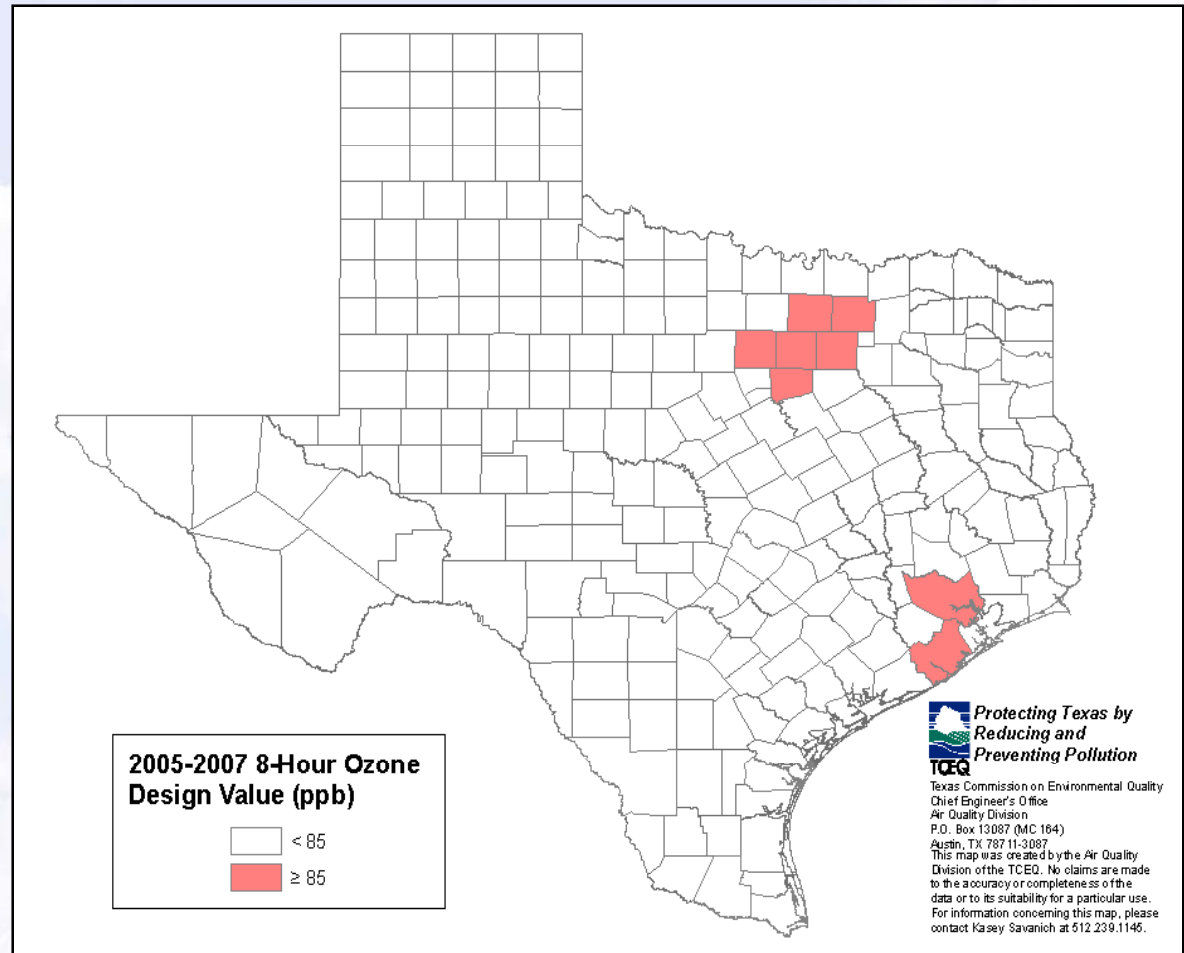
Summary of Eight-hour Ozone Standard

- 1997 8-Hour Ozone Standard – 0.08 ppm
 - 8 Counties over the old standard
- 2008 8-Hour Ozone Standard – 0.075 ppm
 - 14 Additional counties over the new standard
 - 22 Total counties over the new standard
 - EPA's default recommendation is for the entire metropolitan statistical area (MSA) with a violating monitor to be nonattainment
 - 45 counties under review



Counties Monitoring Over Old 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

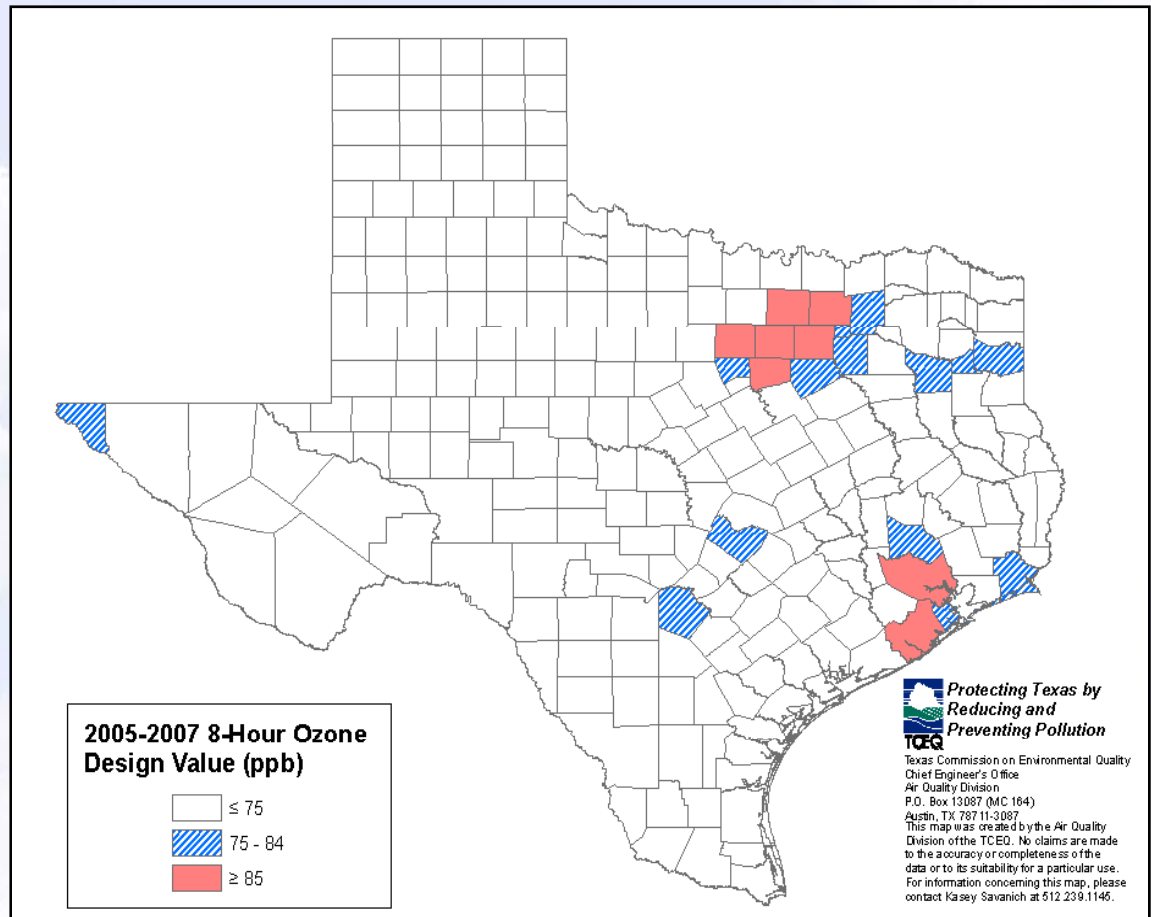


*2007 design values based on average of 2005 to 2007 data. To exceed the old standard the design value must be greater than or equal to 85 ppb.



Counties Monitoring Over Revised Ozone Standard of 0.075 ppm

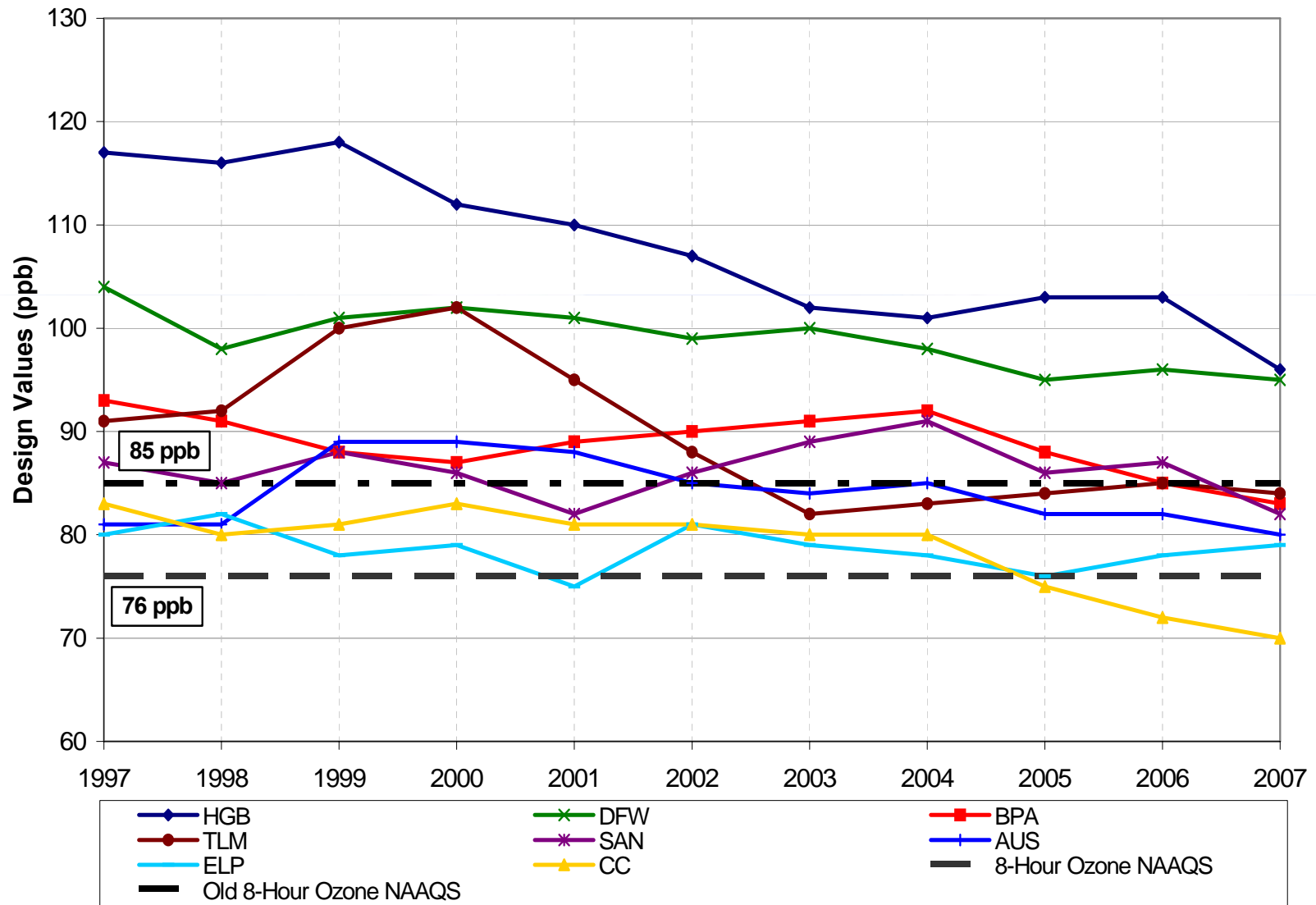
Region	County	2007 8-Hr Ozone DV (ppb)*
HGB	GALVESTON	84
HGB	MONTGOMERY	84
TLM	GREGG	84
TLM	SMITH	80
TLM	HARRISON	77
DFW	HOOD	84
DFW	ROCKWALL	78
DFW	ELLIS	78
DFW	HUNT	76
DFW	KAUFMAN	76
BPA	JEFFERSON	83
SAN	BEXAR	82
AUS	TRAVIS	80
ELP	EL PASO	79



*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 75 ppb.



8-Hour Ozone Design Value Trends ('97-'07)





2008 Ozone Standard Key Dates

March 12, 2008	EPA Administrator signed a revision to the eight-hour ozone standard
May 27, 2008	Effective date of the 2008 standard
July 2008	TCEQ hosts public meetings in applicable areas
September 5, 2008	Public comments due to TCEQ staff
Dec. 10, 2008	Commissioner Agenda (Nov. 21 backup available to the public)
March 12, 2009	State recommendation due to EPA on boundaries and designations
March 12, 2010	EPA makes final designations and classification
Approximately 2013	Attainment demonstration SIPs due to EPA
2013 - 2030	Attainment dates, depending on severity of problem