

Local Government Meeting

July 22, 2008

Theresa Pella, Manager
Air Quality Planning Section





Overview

- Federal Clean Air Act
- Texas State Implementation Plan
- Status for the Houston-Galveston-Brazoria Area



Federal Clean Air Act

- Requires states with counties failing to meet air quality standards to produce a State Implementation Plan (SIP)
- EPA set health-based standards for clean air called National Ambient Air Quality Standards (NAAQS) for criteria air pollutants:
 - Ground-Level Ozone (O_3)
 - Particulate Matter (PM)
 - Nitrogen Oxides (NO_x)
 - Sulfur Dioxide (SO_2)
 - Carbon Monoxide (CO)
 - Lead (Pb)



Federal Clean Air Act

- EPA terminology:
 - **Attainment:** meeting NAAQS
 - **Nonattainment:** not meeting NAAQS
- Areas designated as nonattainment must develop a SIP revision



Consequences of an Inadequate SIP



Federal Implementation Plan



Federal highway funding cut-off



Federal air permits more difficult to obtain



Photochemical Modeling

- Computer simulation of atmospheric chemistry and meteorological conditions
- Prediction tool to find the best way to reduce ozone pollution



1997 Standard Status

Submitted to EPA on June 15, 2007:

- Eight-Hour Ozone SIP
 - Moderate nonattainment
(June 15, 2010, attainment date)
 - Includes rule revisions and commitment for local emissions reductions but does not demonstrate attainment of the standard
- Reasonable Further Progress SIP
- Governor's request for reclassification from moderate to severe
- HGB's 1997 eight-hour design value for 2005-2007 is 96 ppb.



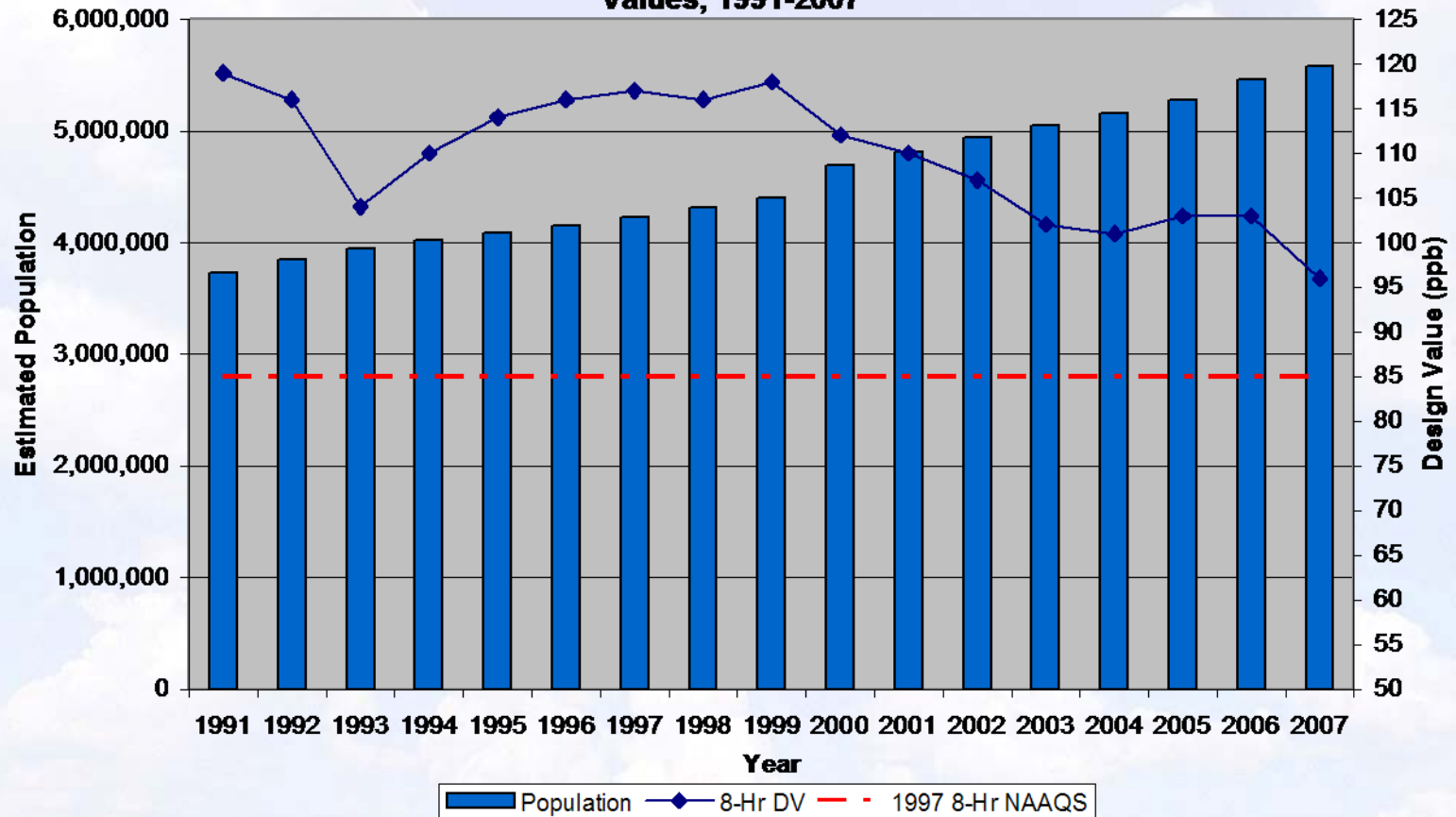
HGB Area – Severe Area

- Must attain as expeditiously as practicable, but no later than June 15, 2019
- TCEQ's recommended schedule for SIP submittal: April 2010
- EPA expected to announce reclassification in July



HGB Eight-Hour Ozone Trends

Houston-Galveston-Brazoria -- Estimated Population and 8-Hour Ozone Design Values, 1991-2007



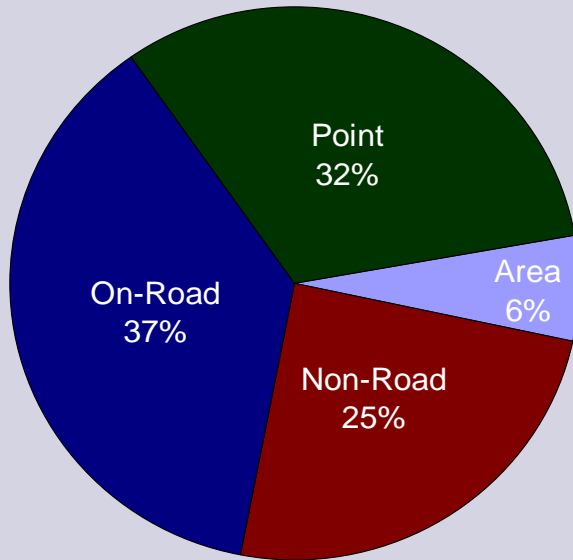
*Source: Ozone – EPA's AQS database.

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



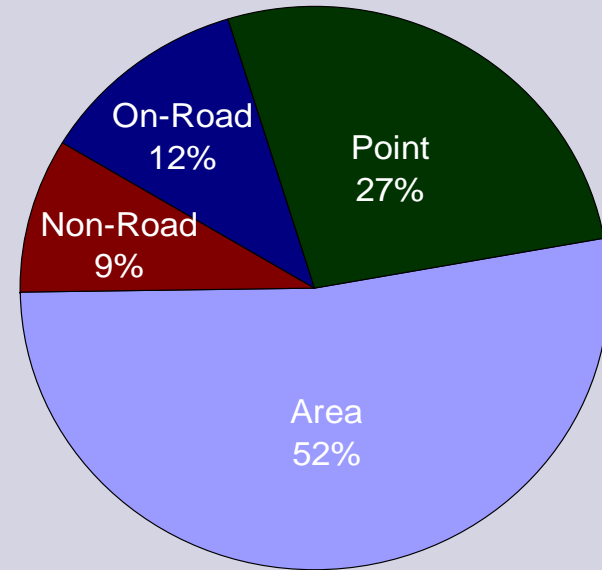
Preliminary 2005 Houston/Galveston/Brazoria Modeling Inventory* (tpd)

NOx



| | |
|--------------|---------------|
| Area | 36.19 |
| Non-road | 148.45 |
| On-Road | 221.68 |
| Point | 190.55 |
| Total | 596.75 |

VOC



| | |
|--------------|---------------|
| Area | 427.78 |
| Non-road | 72.35 |
| On-Road | 95.14 |
| Point | 219.10 |
| Total | 814.60 |

Source: TCEQ Emissions Inventory

TCEQ Contact: Jim MacKay

Updated June 29, 2008



Join the SIP E-mail Update List

<http://www.tceq.state.tx.us/implementation/air/sip/sipcontact.html>

1. Enter and confirm your e-mail address
2. Look under Air Quality and select "SIP Hot Topics"
3. Click "Save"
4. You will receive a confirmation e-mail to accept



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SIP Hot Topics Web page:
<http://www.tceq.state.tx.us/implementation/air/sip/Hottop.html>