

Houston Area Locomotives, Railroad Maintenance, Commercial Marine Vessels and Recreational Boating Emissions as Reported in 2000, 2002 and 2005
Texas Commission on Environmental Quality
June 19, 2008

Table 1: 8-County Houston-Galveston-Brazoria Area Initial Modeling Emissions in Tons per Day (TPD)

Locomotives

Pollutants	Calendar Year		
	2000 SIP*	2002**	2005***
NO _x	17.8	23.62	30.75
VOC	0.72	1.52	1.83

Railroad Maintenance

Pollutants	Calendar Year		
	2000 SIP*	2002**	2005***
NO _x	0.14	0.08	0.07
VOC	0.03	0.02	0.014

Commercial Marine Vessels

Pollutants	Calendar Year		
	2000 SIP*	2002**	2005***
NO _x	37.54	36.89	34.47
VOC	0.85	0.92	0.97

Recreational Boating

Pollutants	Calendar Year		
	2000 SIP*	2002***	2005***
NO _x	0.96	0.5	1.29
VOC	16.02	5.51	17.71

* 2000 emissions were from the Houston 2000 SIP: TCEQ, 2002. Revisions to the State Implementation Plan (SIP) for the Control of Ozone Air Pollution, December, 2002.

** 2002 data were obtained from the Texas Commission on Environmental Quality (TCEQ)'s Texas Air Emissions Repository (TexAER) system.

*** 2005 data were also obtained from the TCEQ's TexAER system. Recent TCEQ locomotive and commercial marine studies have been incorporated to obtain numbers listed below.

Next Steps:

The following studies are underway:

1. Recreational Marine Emissions Inventory of the HGB Area
 - Develop 2007 Recreational Marine Emissions Inventory for HGB
 - Estimate years 2008, 2011, 2014, 2017, 2018 and 2019
2. Diesel Inventory of Marine Vessels Phase II
 - Development of activity data, traffic patterns, vehicle characteristics, emissions factors and operating load factors required to estimate and spatially allocate commercial marine emissions for state waters (excluding HGB). The study will not specifically detail HGB activity but it will expand the body of diesel marine knowledge and will support future modeling efforts. The Port of Houston is developing the HGB area counterpart to the TCEQ study.