

# **State Air Quality Plan Mobile Source Control Strategies**

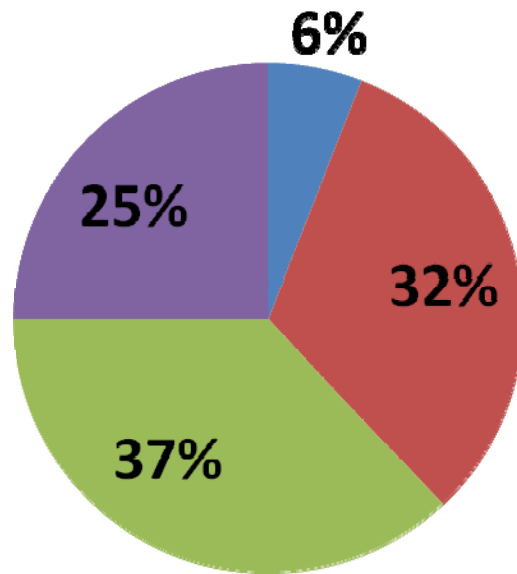
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# NOx Emissions in the HGB Region

## 2005 Emissions Baseline

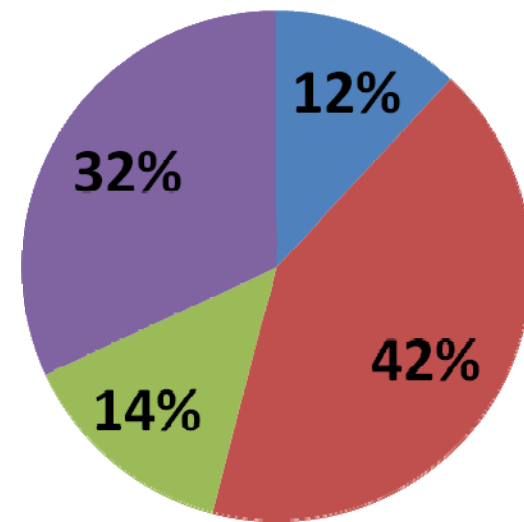
■ Area      ■ Point  
■ On-Road   ■ Non-Road



**Total = 600 tpd**

## 2018 Forecast Emissions

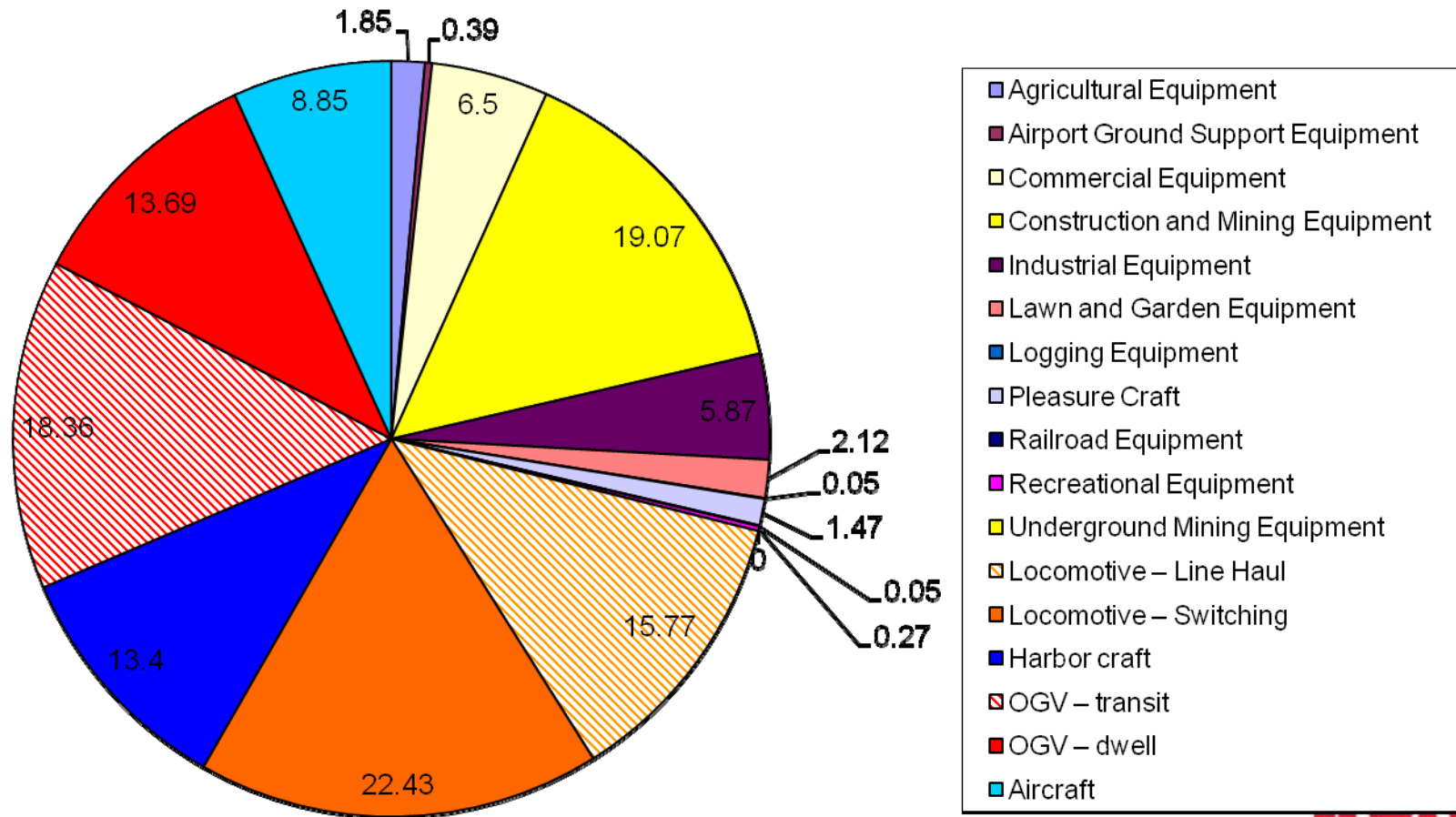
■ Area      ■ Point  
■ On-Road   ■ Non-Road



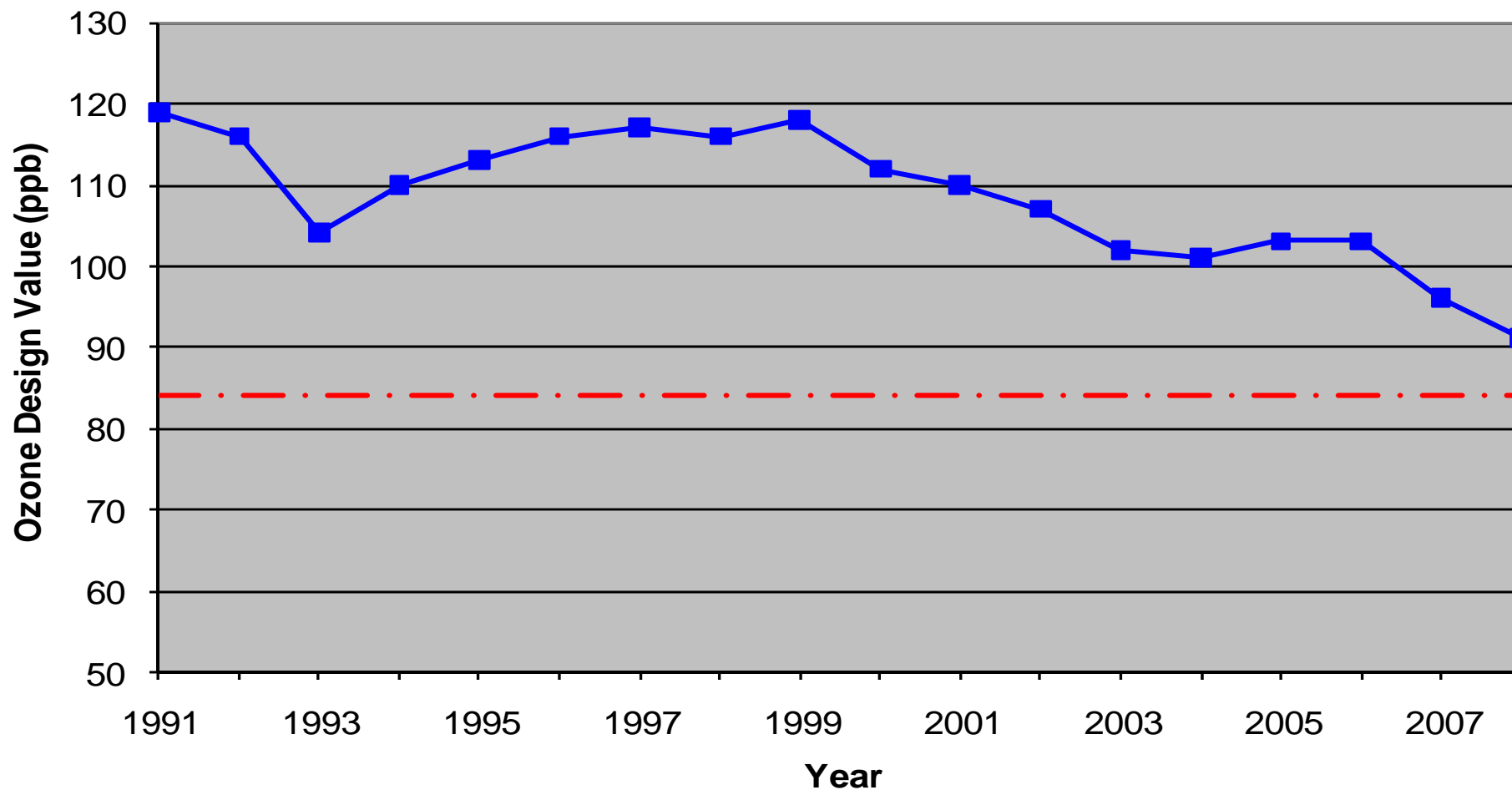
**Total = 364 tpd**

Source: TCEQ Initial 2018 HGB Modeling Emissions Inventory

# 2018 HGB Non-Road Modeled NOx Inventory



# HGB Region 8-Hour Ozone Design Value Trends



—■— 8-hr DV    -.-.- Current 8-hr Standard

# Important SIP Reminders

- Goal: Reduce emissions through local and state commitments
- These commitments:
  - are legally enforceable
  - must be affirmed by MOUs or state actions
  - Must show results before the 2019 attainment deadline
  - Can take the form of TCMs or VMEPs

# TCM Commitments

## Transportation Control Measures

- Project specific
- Legal SIP commitment(s)
- Reduces transportation-related emissions
- 6 bike & pedestrian projects committed



# Voluntary Mobile Emission Reduction Program (VMEP):

On/Off road reductions

- Incentive-driven
- Bottom line SIP commitment
- Program-oriented

# Actions for Local Governments

- HGB area governments can take immediate action
- Examples:
  - No idling ordinances for public or private fleets
  - Clean contracting incentives for construction
  - Clean Fleet Policies for on- and off-road equipment:
  - Cooperative efforts for traffic flow improvements along transportation corridors





# Actions for Local Governments

- Further examples:
  - Commit to supporting commute alternatives:
    - for employees
    - to citizens within local jurisdictions
    - by requiring new developments to include accessibility, or bicycle trails or lanes.
  - Enact ordinances promoting livable centers and other multi-use developments
  - Support increased transit service

# Recommended On Road VMEPs

Estimated NOx reductions by 2018, assuming consistent funding

<b>Strategy</b>	<b>NOx Reduction Estimate (tons per day)</b>
<b>Alternative Commuting</b>	<b>1.2</b>
<b>Regional Traffic Flow Improvement</b>	<b>1.7</b>
<b>Vehicle Retrofit and Replacement</b>	<b>1.1</b>
<b>TOTAL</b>	<b>4.0</b>

# Pursue Recommended Non-Road VMEPs

Strategy	Description
Voluntary non-road replacement and retrofit programs	Funding for accelerated turnover of construction equipment and other non road equipment
Government construction incentives	May include funding and tax relief to firms using clean equipment as allowed by State law.
Promote cleaner lawn and garden equipment	Retirement program for old and malfunctioning lawn and garden equipment
Development of Clean Air Action Plans for regional port and marine operations	Could Include Vessel Speed Reductions . At Berth Control and engine improvements



# Recommended Weight of Evidence VMEPs

Measure	Description
Pay-As-You-Drive Insurance	Insurance cost would increase per mile driven
Limitations on Truck Idling and equipment	Strategies to be used to reduce idling of fleet vehicles and non-road equipment
Encourage/mandate livable centers	Reduces vehicle travel
Continue vehicle scrappage program	Monetary compensation for old vehicle scrappage
Enforcement for Smoking Vehicles	Enforce existing smoking vehicles legislation and I&M compliance

# Comments Received

- Requests to:
  - Greatly expand use of natural gas in vehicle fleets
  - Add bicycle and pedestrian control strategies.
  - Modify report to better explain SIP and how control measures reduce emissions
- Review methodology for calculating emission reductions for bicycle and pedestrian projects.

# Comments Received

- Support for:
  - Port and marine control strategies
  - Encouraging practices which reduce emissions
  - Increased education about air quality issues
  - Increased fleet turnover in favor of newer vehicles
  - Options which help commuters reduce their emissions
  - Limits on idling

# Next Steps

- Continue to develop local commitments with:
  - Local governments
  - Businesses
  - Industry groups
- Submit TCM & VMEP plan to TCEQ by Feb. 20, 2009
- Formalize agreements & emission reduction commitments by signing MOUs

# Timeline

**Jan. 23, 2009:** TPC approves TCMs & VMEPs

**Feb. 17, 2009:** H-GAC Board approves Mobile Strategy “Short List”

**Feb 20, 2009:** H-GAC send Final Short List of Mobile Control Strategies to TCEQ.

<http://www.h-gac.com/taq/airquality/sip/mobile/default.aspx>

