



Overview of the 2002 Periodic Emissions Inventory

MWAQC Technical Advisory Committee

May 14, 2004

Overview

- Background of PEI
- Contents of 2002 PEI
- Comparison to 1990 Base Year Inventory
- Comparison to 2002 Projection Inventory (Severe Area SIP)
- Next Steps

Background

- PEI – A Clean Air Act requirement for Non-attainment areas
- Actual emissions inventories developed on a three-year cycle for submission to EPA.
- Last PEI for Washington, DC-MD-VA NNA was submitted in 1999.
- These inventories include emissions of ozone precursor compounds (VOC & NO_x) and carbon monoxide.
- Data submitted in NIF3.0 format to EPA.

Purpose

- States of Maryland, Virginia and the District and EPA will be using the 2002 emissions inventories as the baseline inventories for 8-hour ozone and PM_{2.5} air quality standards attainment plans and attainment demonstration modeling purposes.

Estimated Actual Emissions



Monitored Point Source
Emissions



MOBILE 6.2 and Travel
Demand Model v. 2.1C

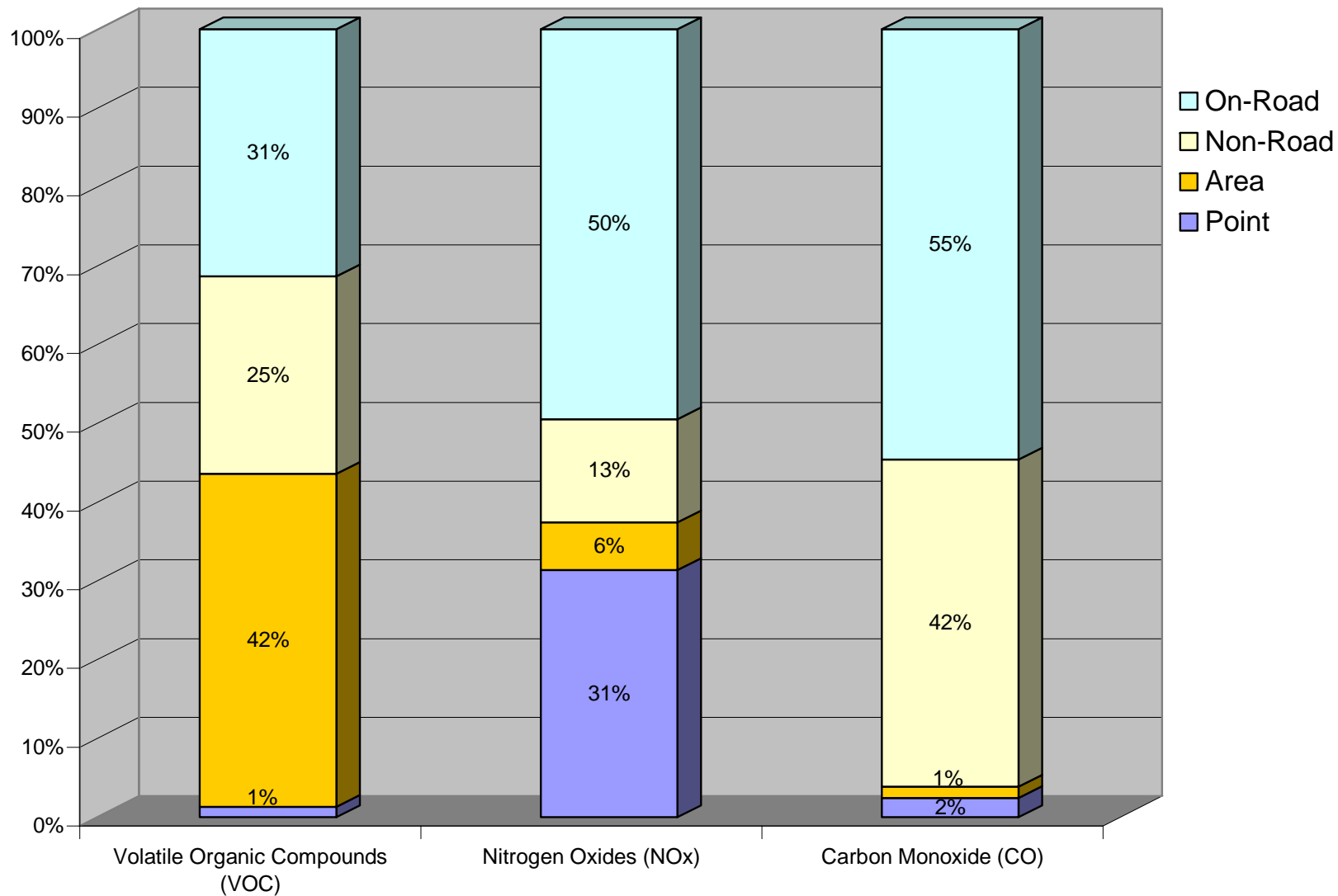


Per Capita Emission Factors
Round 6.3 Forecasts

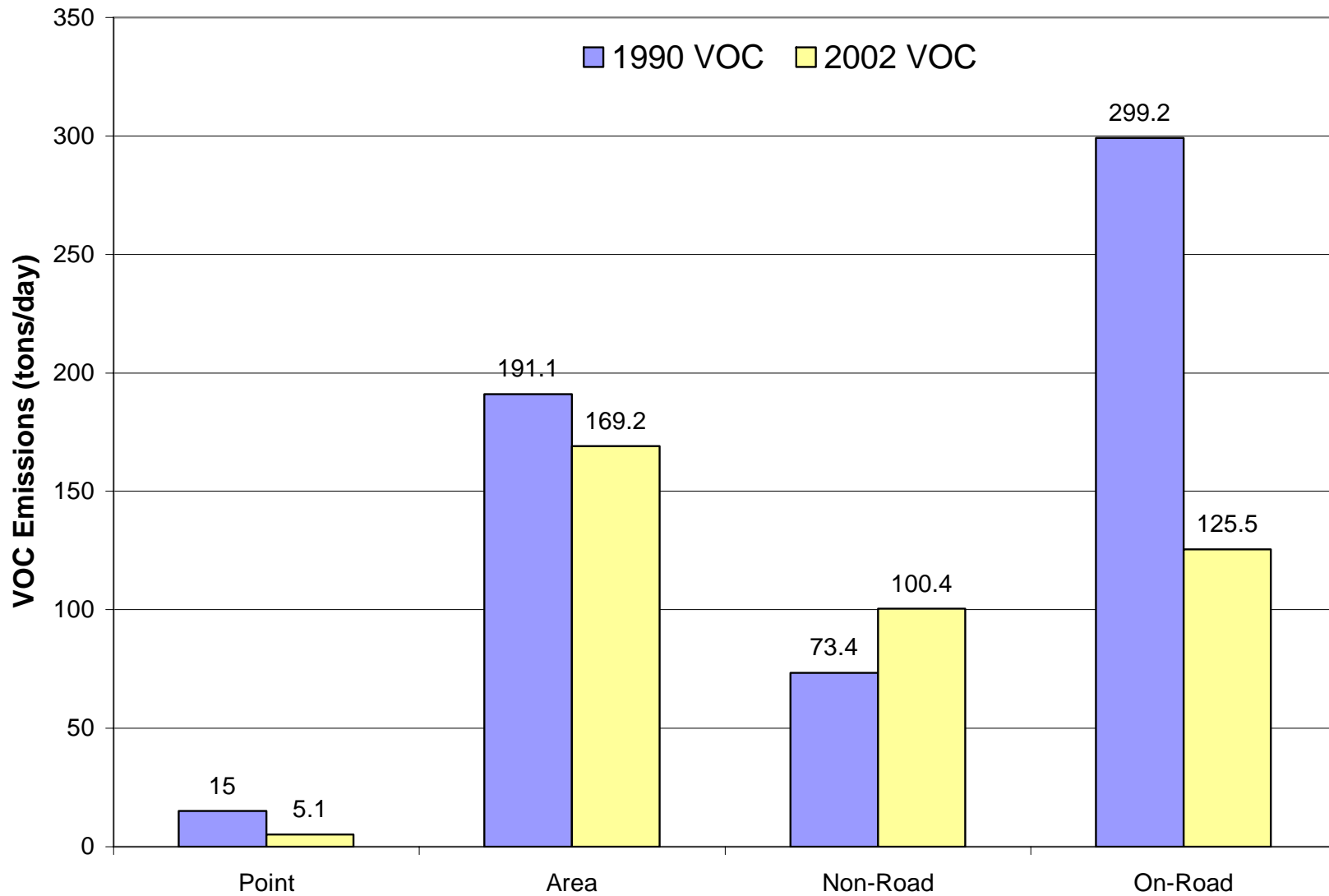


EPA NONROAD Model

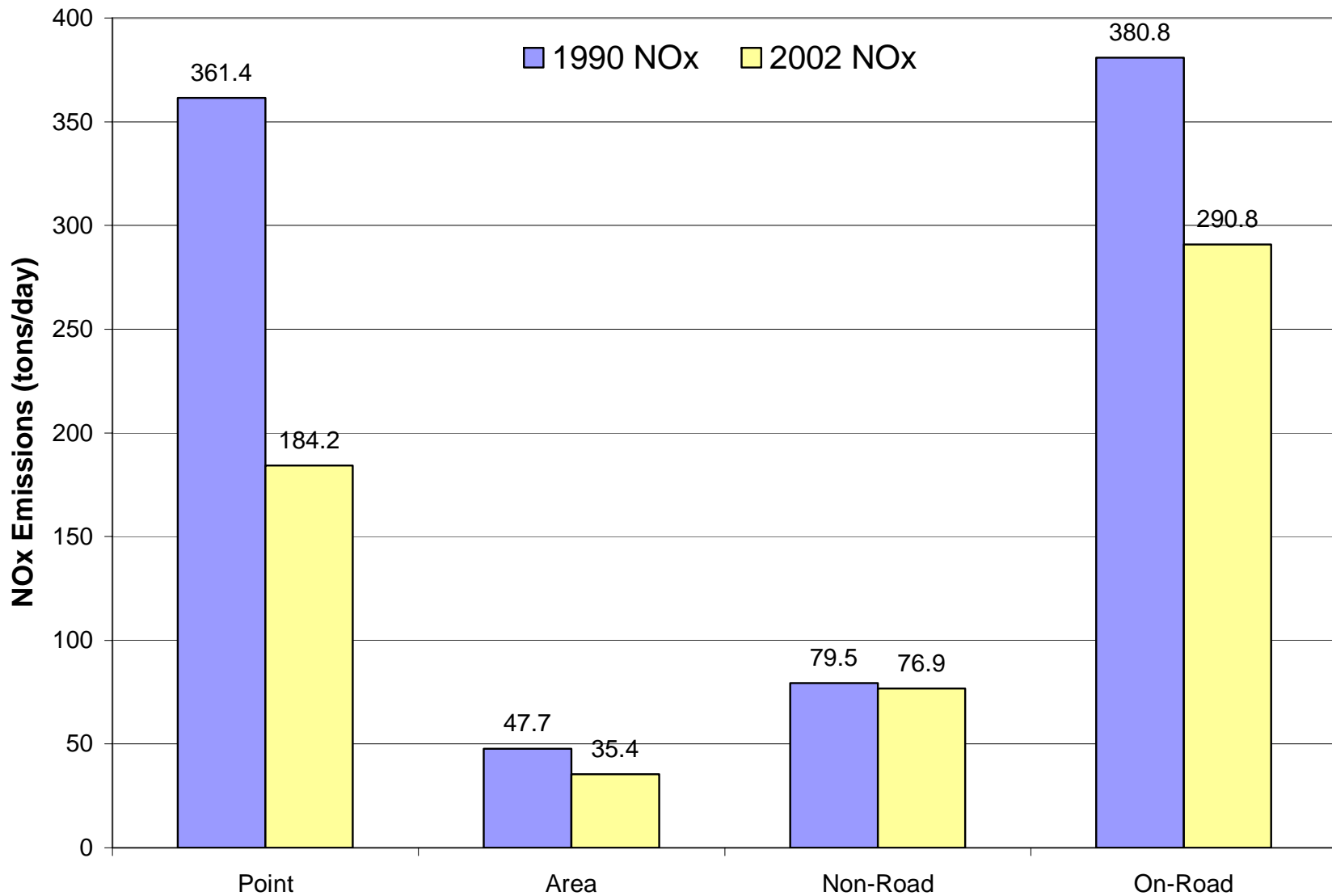
2002 Emissions by Source Sector



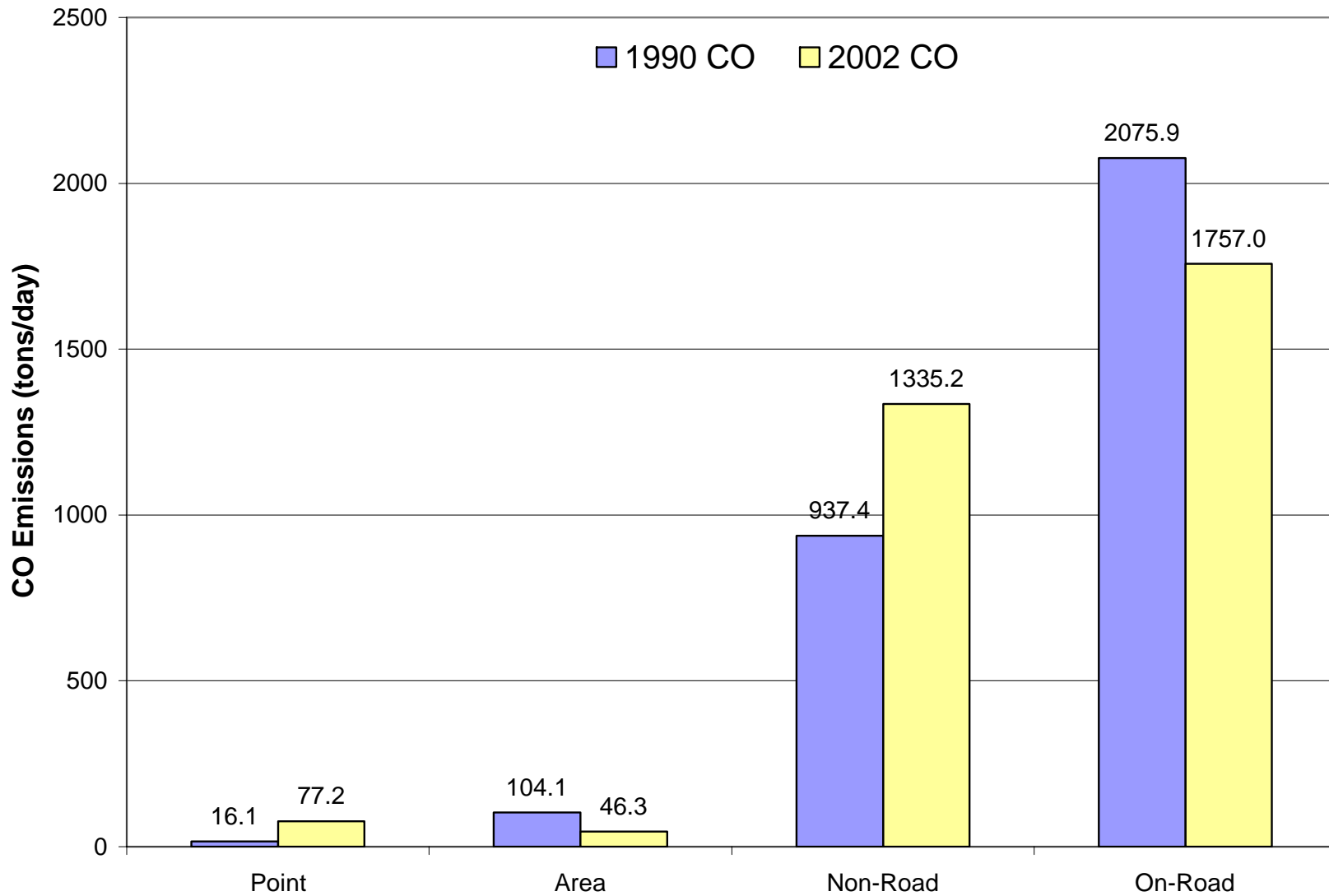
VOC Emissions: 1990 vs. 2002



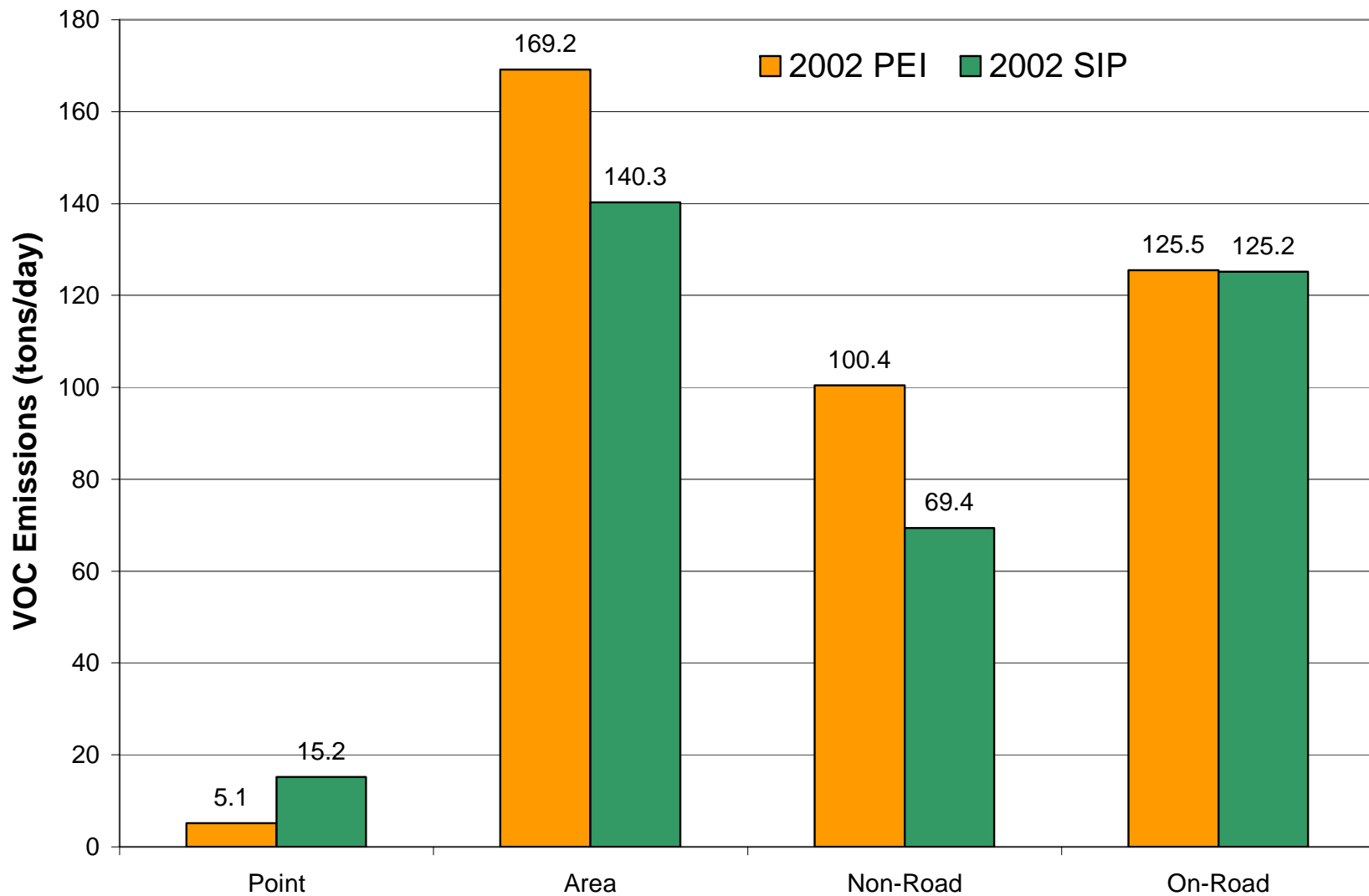
NOx Emissions: 1990 vs. 2002



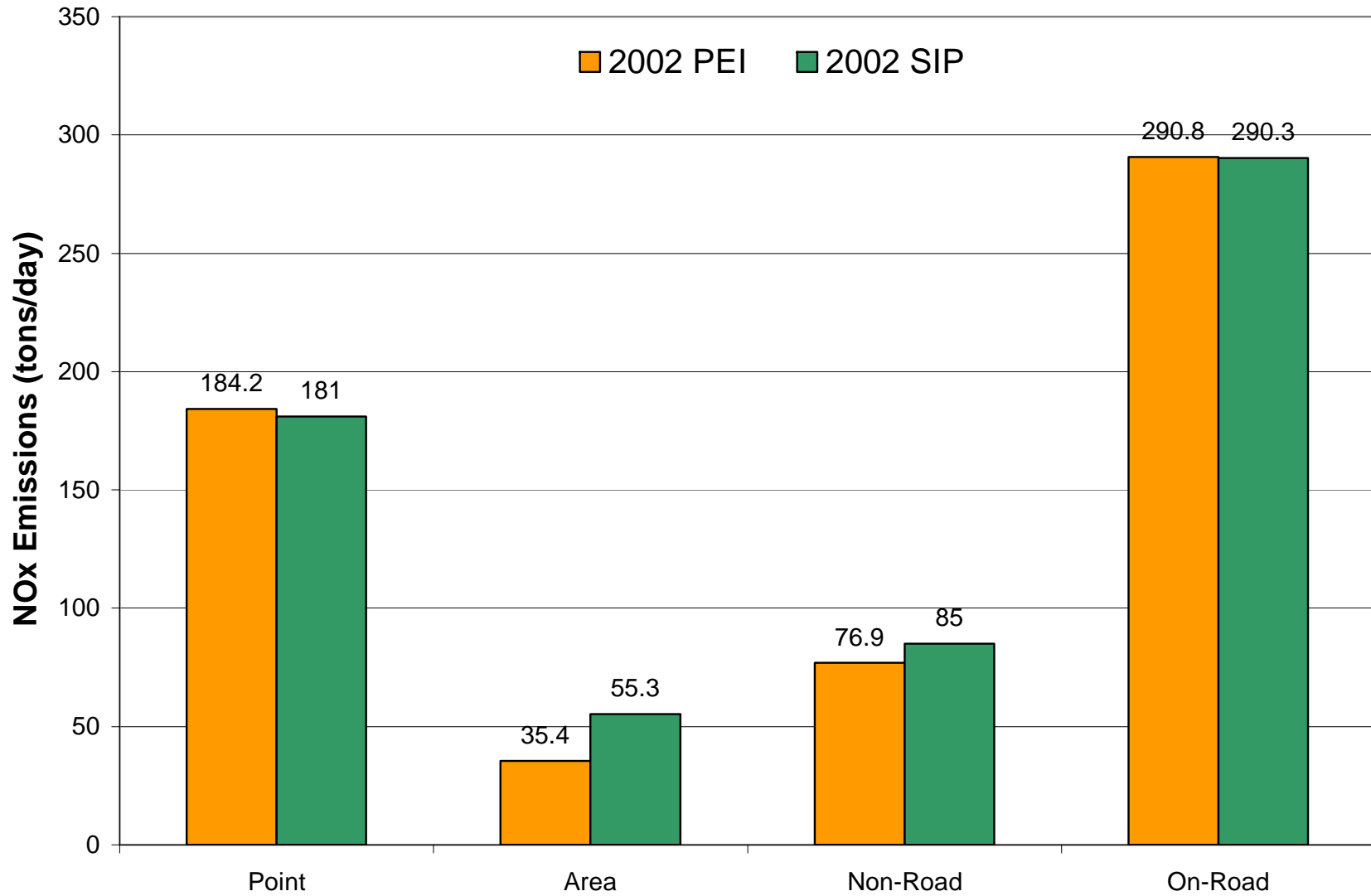
CO Emissions: 1990 vs. 2002



VOC Emissions in the SIP and PEI



NOx Emissions in the SIP and PEI



Next Steps

MWAQC review May 26

States submit to EPA by June 1

