

Mobile & Nonroad Mobile Cmte  
Information Review



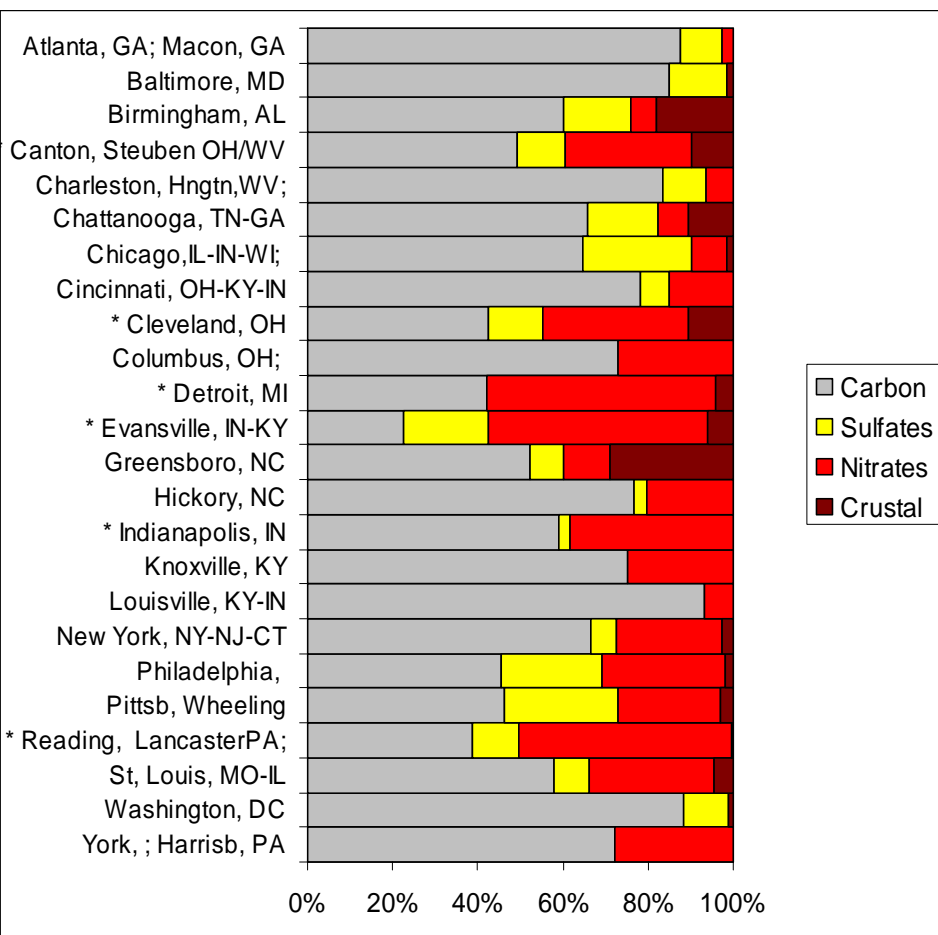
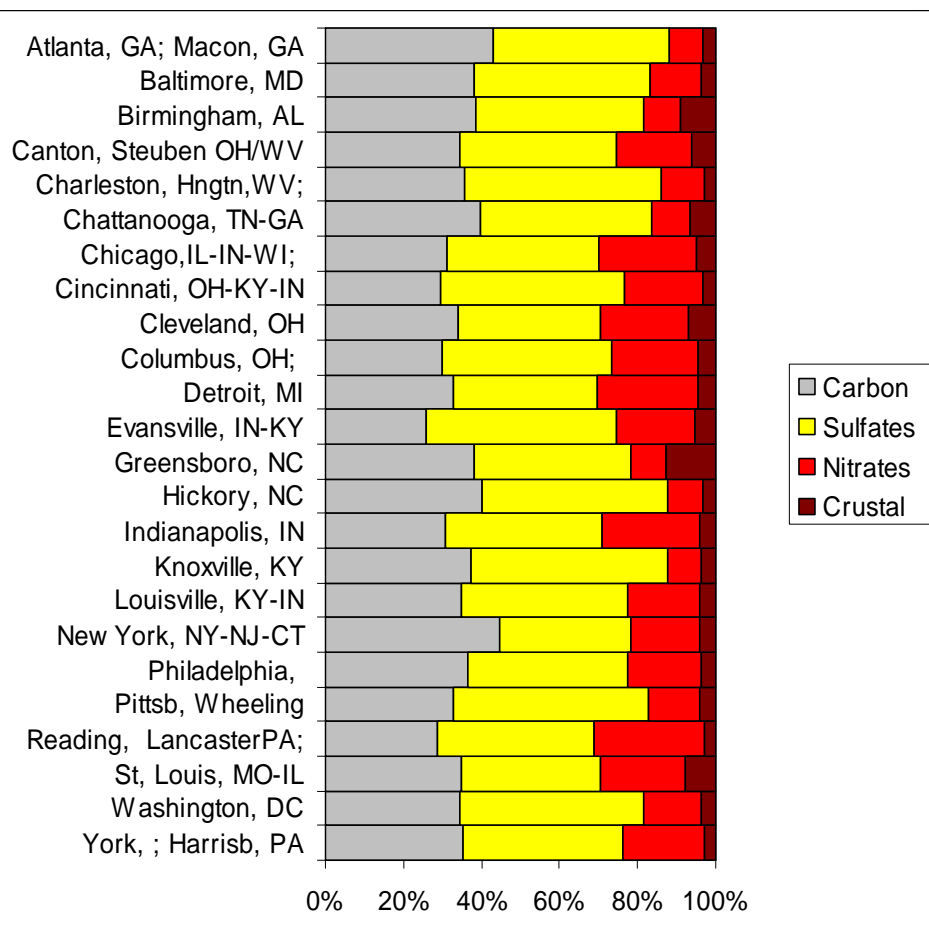
APCD Staff

# Carbon and Nitrates dominate the average local urban excess

## Composition of Eastern PM2.5 Non-Attainment Areas

### Estimated PM2.5 Composition

### Estimated Urban Excess



Carbon  
 Sulfates  
 Nitrates  
 Crustal

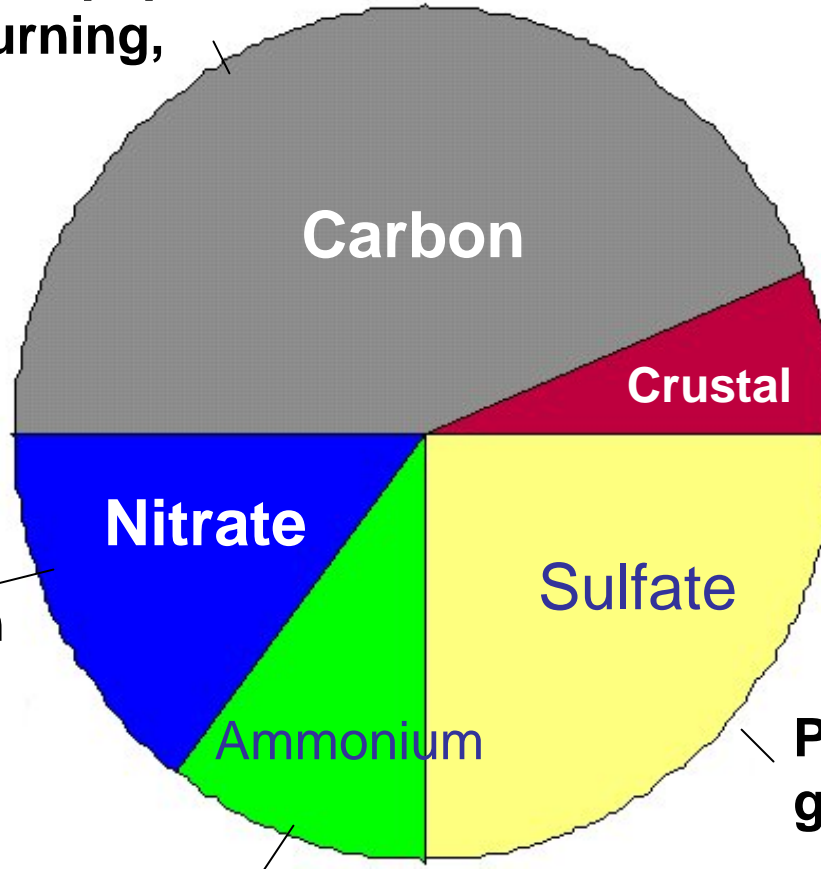
Carbon  
 Sulfates  
 Nitrates  
 Crustal

Based on constructed mass (not SANDWICH), 2003

\* Indicates areas with > 30% UE nitrates

# Automobiles, power generation, and other sources contribute to fine particle levels

Cars, trucks, heavy equipment, wild fires, waste burning, and biogenics



Soil related chemical elements

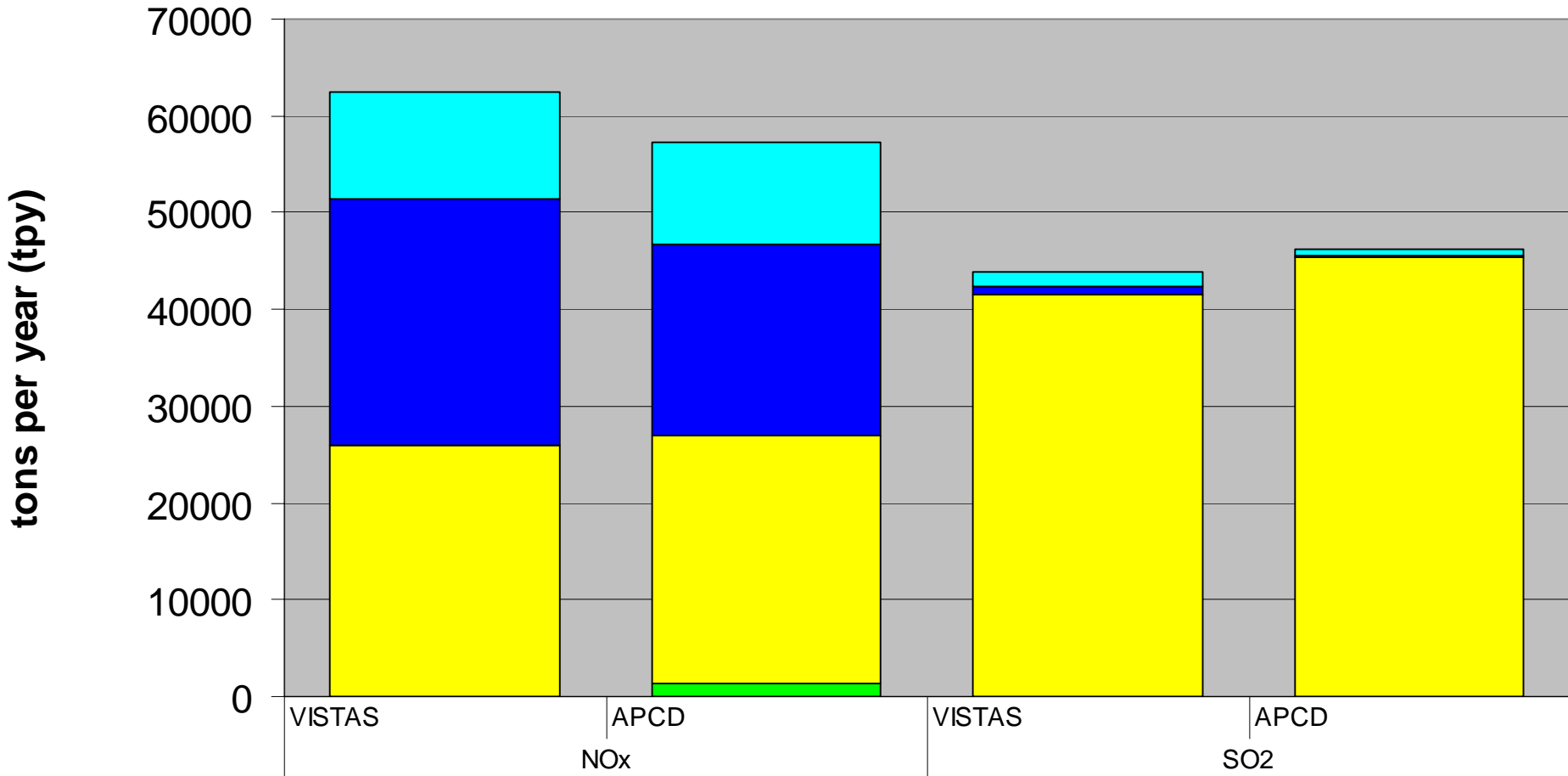
Cars, trucks, and power generation

Power generation

Fertilizers and Animal Feed Operations (with SO<sub>2</sub> and NO<sub>x</sub>, forms ammonium sulfate and ammonium nitrate)

# Comparison of Emissions Inventory Data for PM2.5 Precursor Pollutants by Source Category

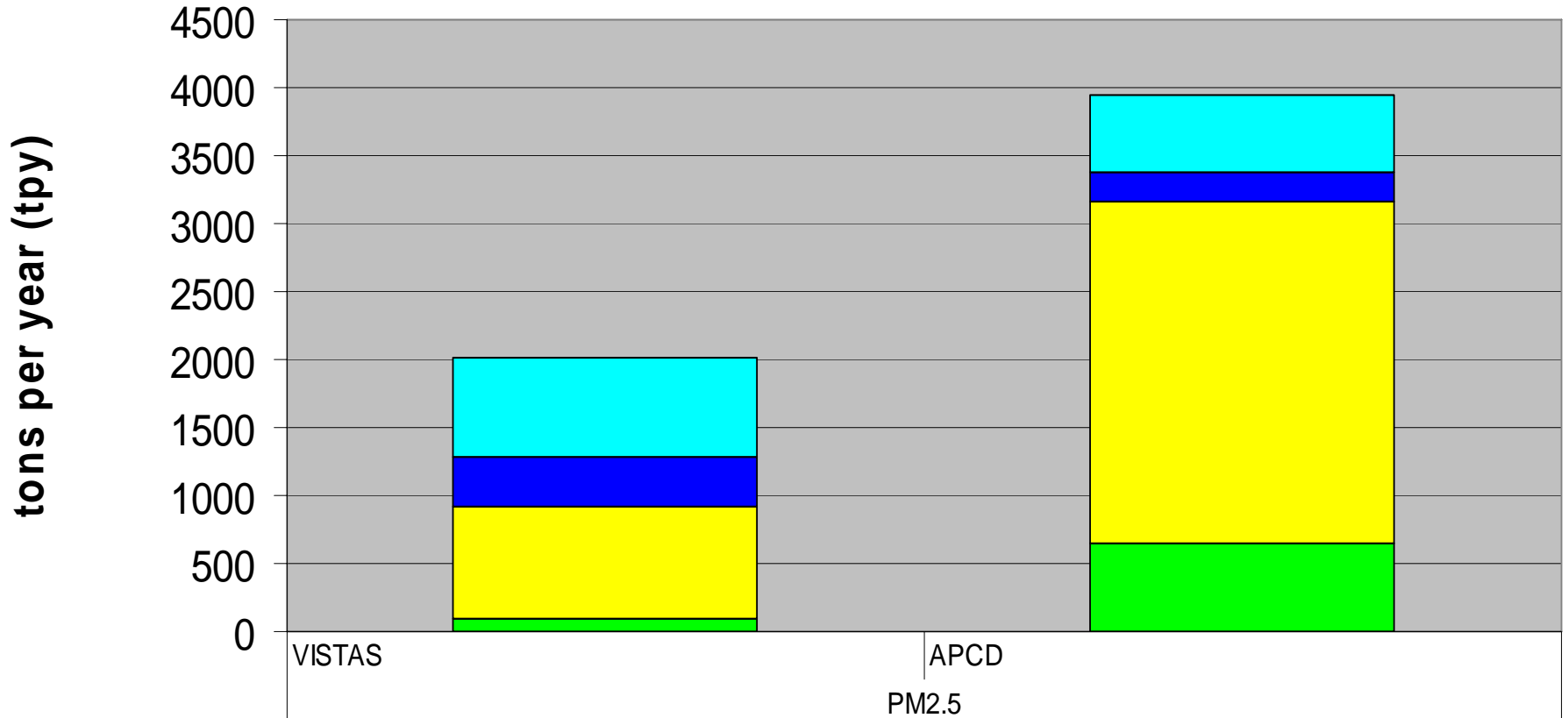
Based on 2005 APCD EI Data and 2002 VISTAS EI Data



Nonroad Mobile	10989	10478.77	1428	712.12
Mobile	25548	19776.12	904	213.13
Stationary	25912	25745.02	41481	45,313.08
Area	0	1272.6	0	0

# Comparison of Emissions Inventory Data for Direct PM2.5 Emissions by Source Category

Based on 2005 APCD EI Data and 2002 VISTAS EI Data

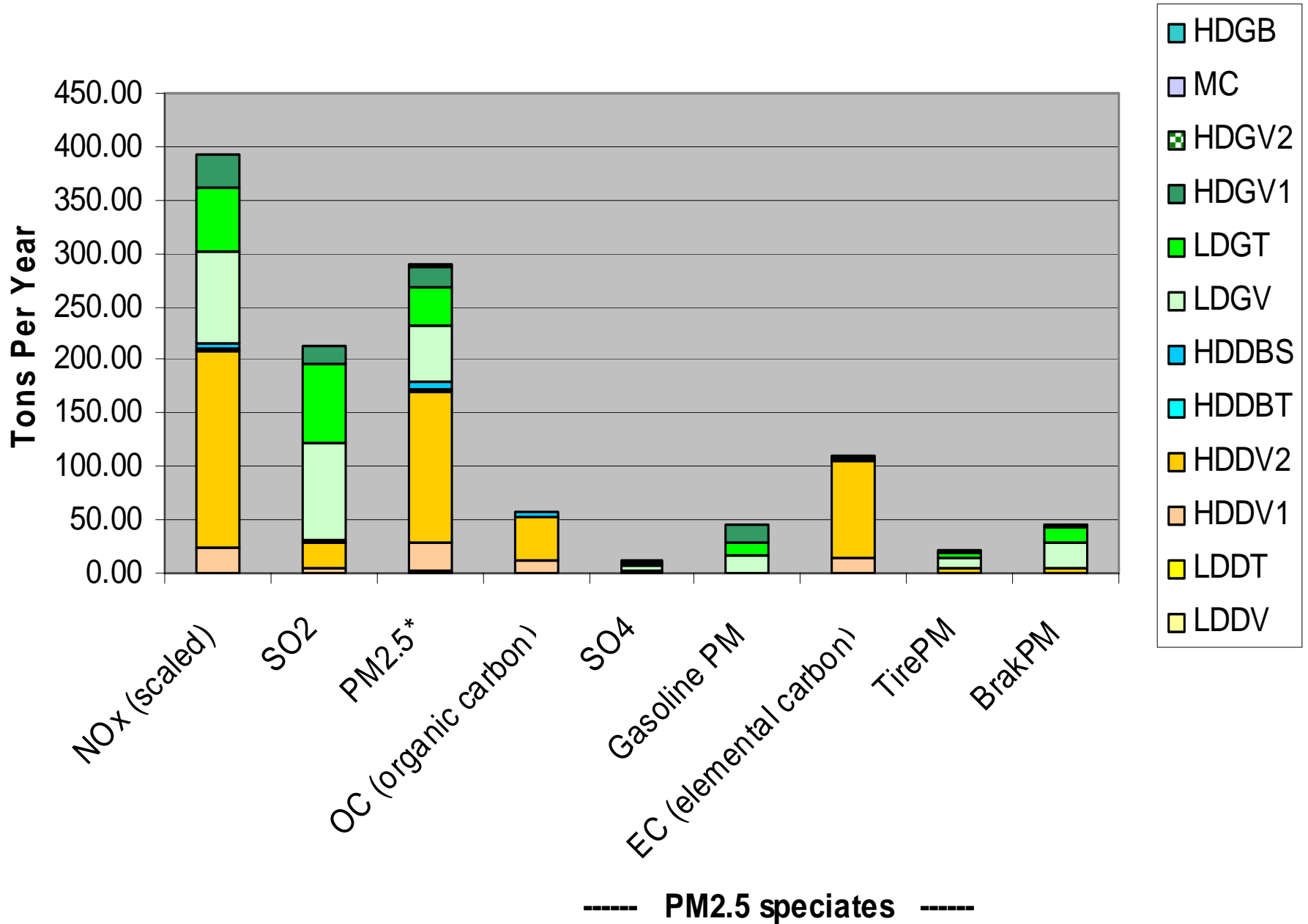


	VISTAS	APCD
Nonroad Mobile	720	577.45
Mobile	364	209.95
Stationary	824	2517.66
Area	101	645.9

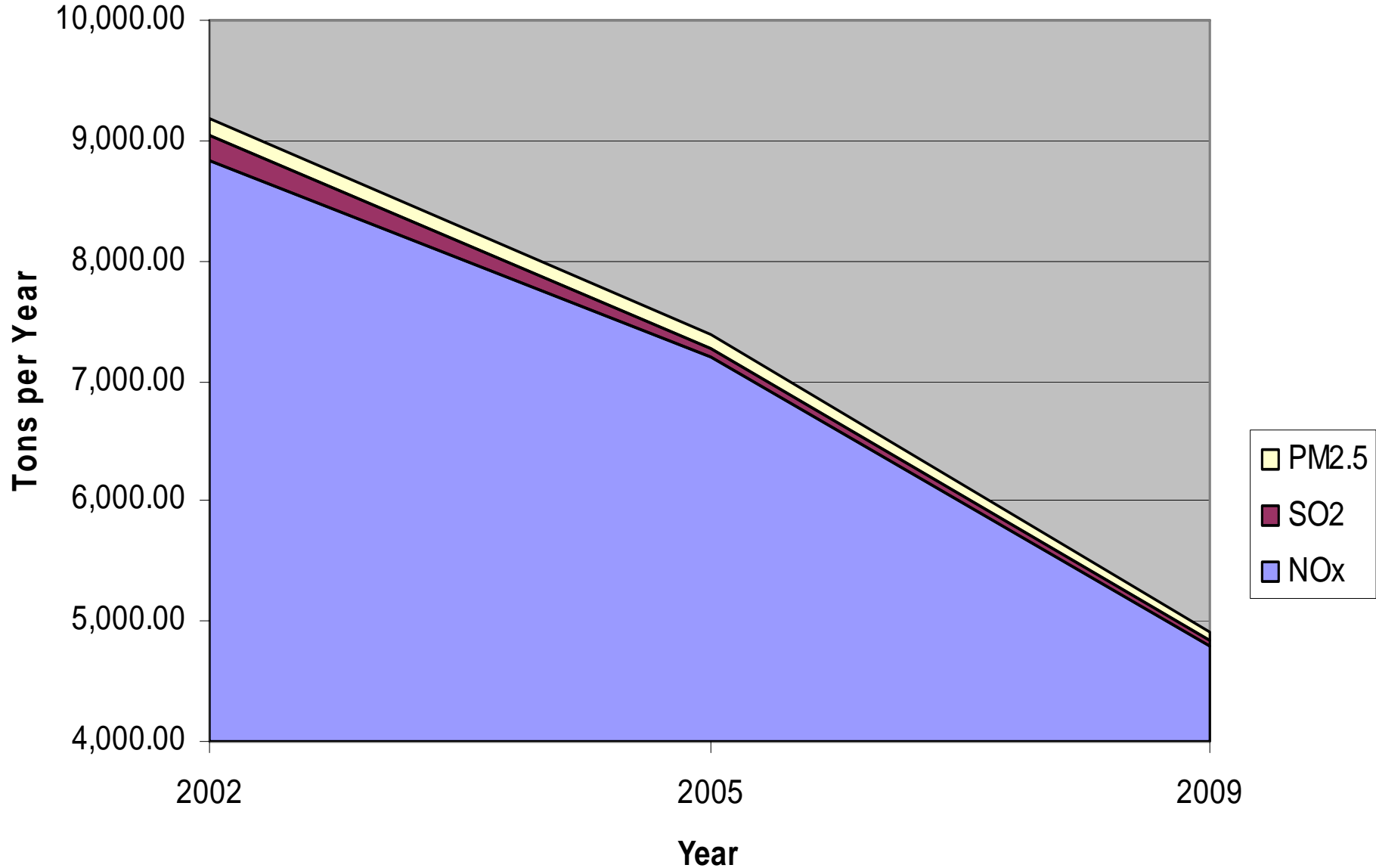
1.2.3 MOBILE6 Vehicle Classifications			
Number	Abbreviation	Description	
1	LDGV L	Light-Duty Gasoline Vehicles (Passenger Cars)	LDGV
2	LDGT1	Light-Duty Gasoline Trucks 1 (0-6,000 lbs. GVWR, 0-3,750 lbs. LVW)	LDGT
3	LDGT2	Light-Duty Gasoline Trucks 2 (0-6,000 lbs. GVWR, 3,751-5,750 lbs. LVW)	
4	LDGT3	Light-Duty Gasoline Trucks 3 (6,001-8,500 lbs. GVWR, 0-5,750 lbs. ALVW)	
5	LDGT4	Light-Duty Gasoline Trucks 4 (6,001-8,500 lbs. GVWR, greater than 5,751 lbs. ALVW)	
6	HDGV2b	Class 2b Heavy-Duty Gasoline Vehicles (8,501-10,000 lbs. GVWR)	
7	HDGV3	Class 3 Heavy-Duty Gasoline Vehicles (10,001-14,000 lbs. GVWR)	
8	HDGV4	Class 4 Heavy-Duty Gasoline Vehicles (14,001-16,000 lbs. GVWR)	
9	HDGV5	Class 5 Heavy-Duty Gasoline Vehicles (16,001-19,500 lbs. GVWR)	
10	HDGV6	Class 6 Heavy-Duty Gasoline Vehicles (19,501-26,000 lbs. GVWR)	
11	HDGV7	Class 7 Heavy-Duty Gasoline Vehicles (26,001-33,000 lbs. GVWR)	HDGV2
12	HDGV8a	Class 8a Heavy-Duty Gasoline Vehicles (33,001-60,000 lbs. GVWR)	
13	HDGV8b	Class 8b Heavy-Duty Gasoline Vehicles (>60,000 lbs. GVWR)	
14	LDDV	Light-Duty Diesel Vehicles (Passenger Cars)	LDDV
15	LDDT12	Light-Duty Diesel Trucks 1 and 2 (0-6,000 lbs. GVWR)	LDDT
16	HDDV2b	Class 2b Heavy-Duty Diesel Vehicles (8,501-10,000 lbs. GVWR)	HDDV1
17	HDDV3	Class 3 Heavy-Duty Diesel Vehicles (10,001-14,000 lbs. GVWR)	
18	HDDV4	Class 4 Heavy-Duty Diesel Vehicles (14,001-16,000 lbs. GVWR)	
19	HDDV5	Class 5 Heavy-Duty Diesel Vehicles (16,001-19,500 lbs. GVWR)	
20	HDDV6	Class 6 Heavy-Duty Diesel Vehicles (19,501-26,000 lbs. GVWR)	
21	HDDV7	Class 7 Heavy-Duty Diesel Vehicles (26,001-33,000 lbs. GVWR)	
22	HDDV8a	Class 8a Heavy-Duty Diesel Vehicles (33,001-60,000 lbs. GVWR)	
23	HDDV8b	Class 8b Heavy-Duty Diesel Vehicles (>60,000 lbs. GVWR)	
24	MC	Motorcycles (Gasoline)	MC
25	HDGB	Gasoline Buses (School, Transit and Urban)	HDGBS
26	HDDBT	Diesel Transit and Urban Buses	HDDBT
27	HDDBS	Diesel School Buses	HDDBS
28	LDDT34	Light-Duty Diesel Trucks 3 and 4 (6,001-8,500 lbs. GVWR)	LDDT

\* **ALVW** = Alternative Loaded Vehicle Weight: The adjusted loaded vehicle weight is the numerical average of the vehicle curb weight and the gross vehicle weight rating (**GVWR**)

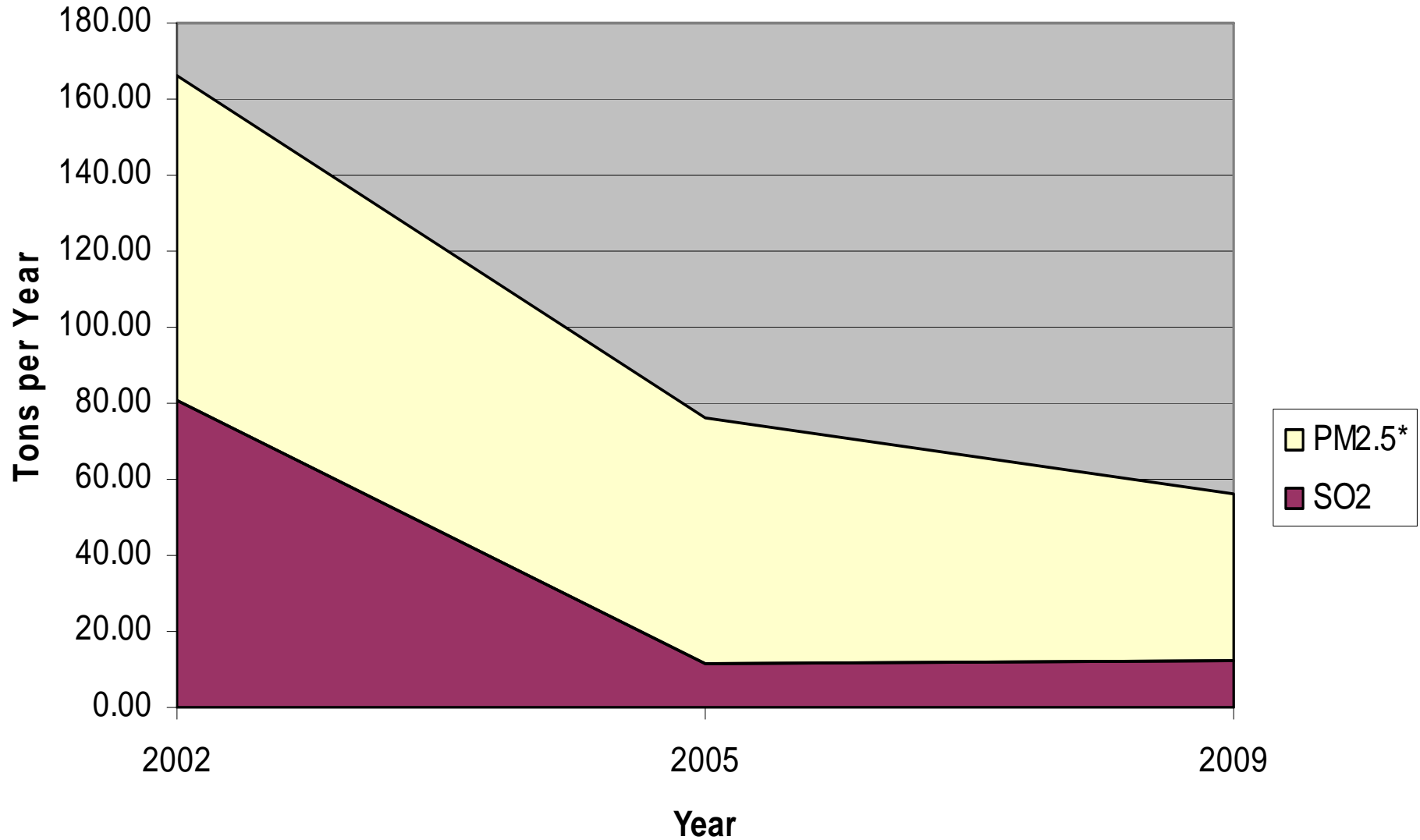
# 2005 EMISSIONS JEFFERSON CO. BY VEHICLE TYPE



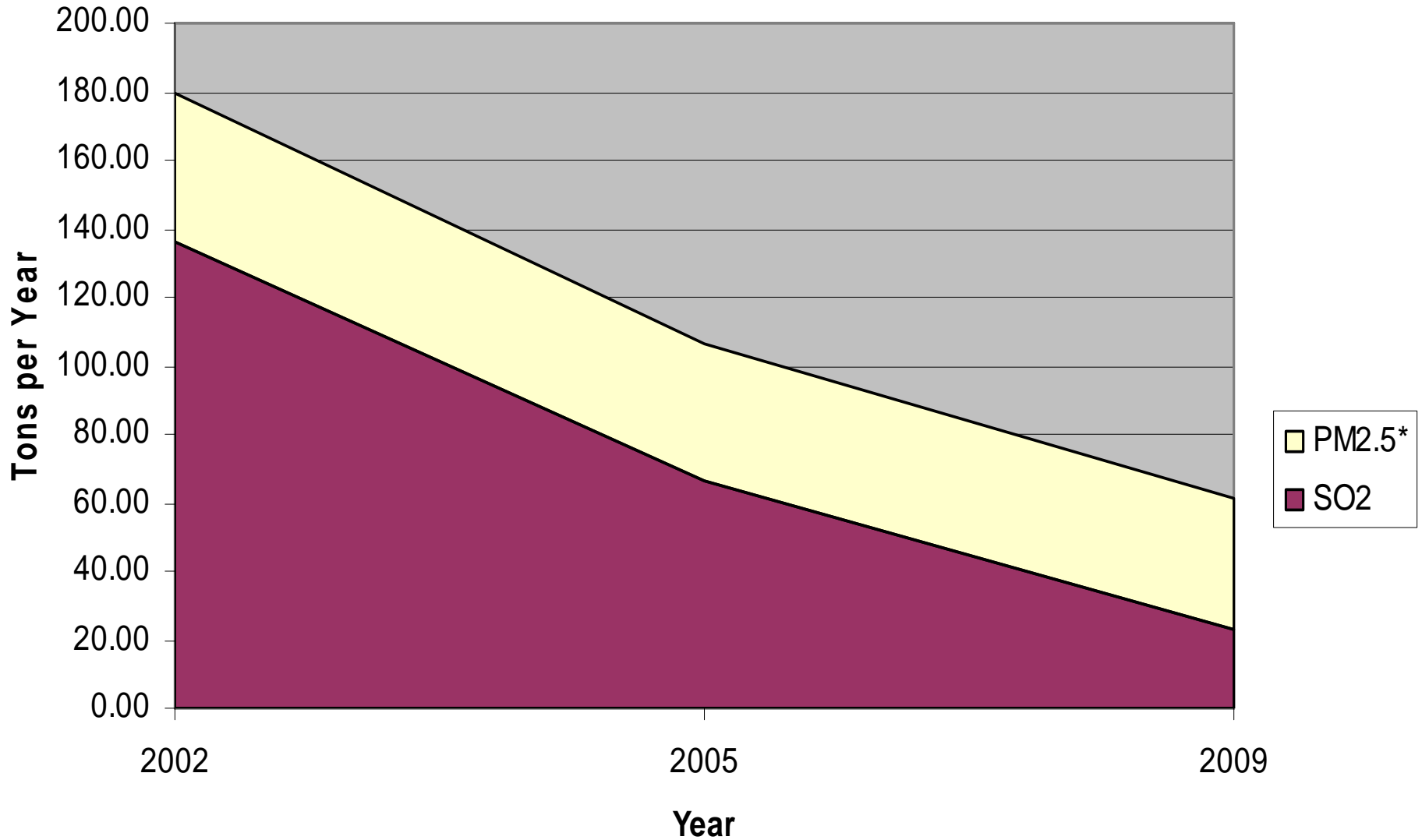
# On-Road Mobile Source Pollutants: Cross-County Averaged All Vehicles



# On-Road Mobile Source Pollutants: Cross-County Averaged: Diesel Vehicles



# On-Road Mobile Source Pollutants: Cross-County Averaged: Non-Diesel Vehicles



# On-Road Mobile Source Pollutants Percent Diesel: Cross-County Averaged

