

Does the Washington Region Need (more) Control Measures?

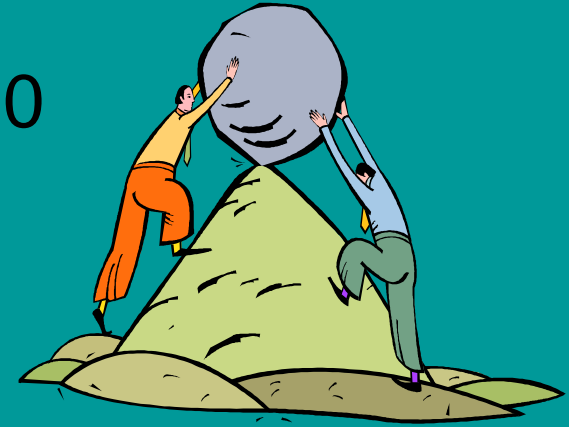
MWAQC Control Measure Work Session

October 26, 2005



Challenge: New Ozone Standard

2010

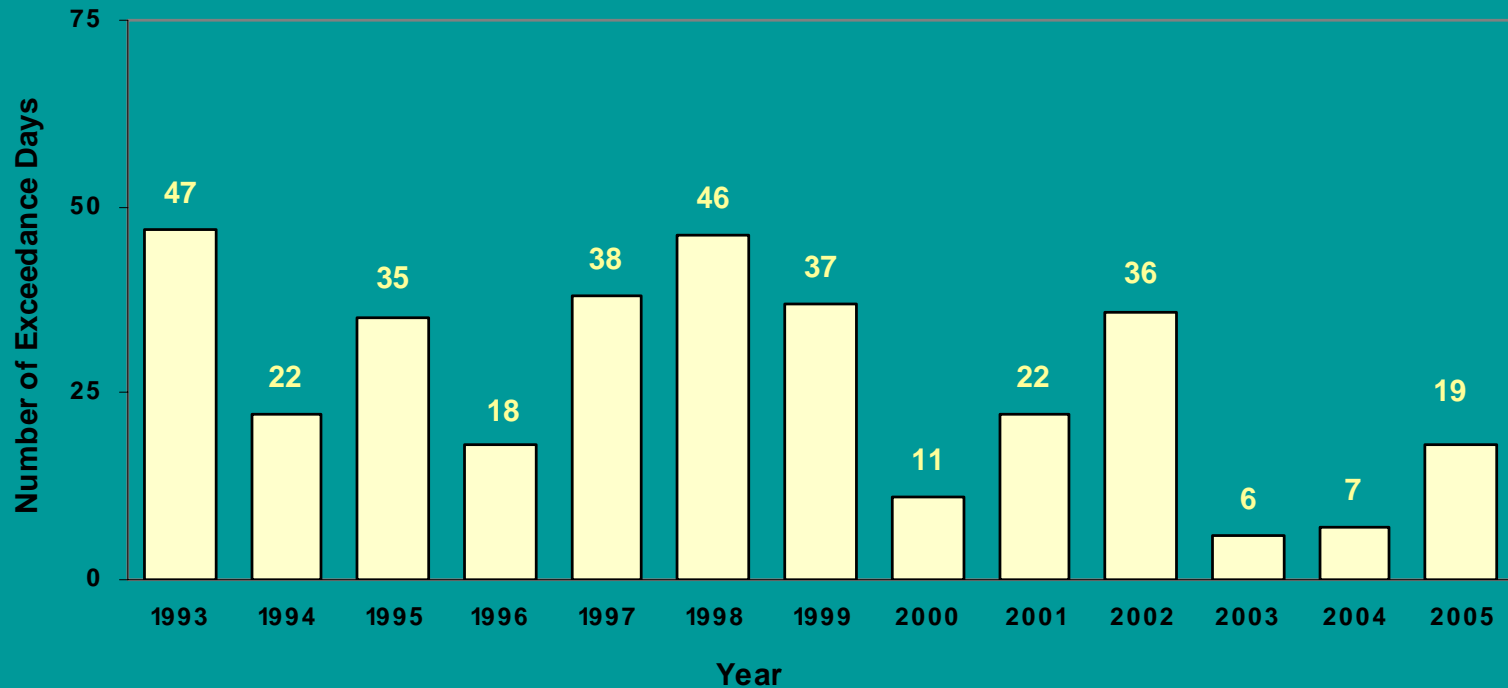


- 19 exceedances in 2005 (Code Orange)
- EPA modeling for the Clean Air Interstate Rule (CAIR) shows the Washington region not meeting the 2010 deadline for ozone.
- New control measures are needed to meet the new standard.



8-hr Ozone Exceedance Days

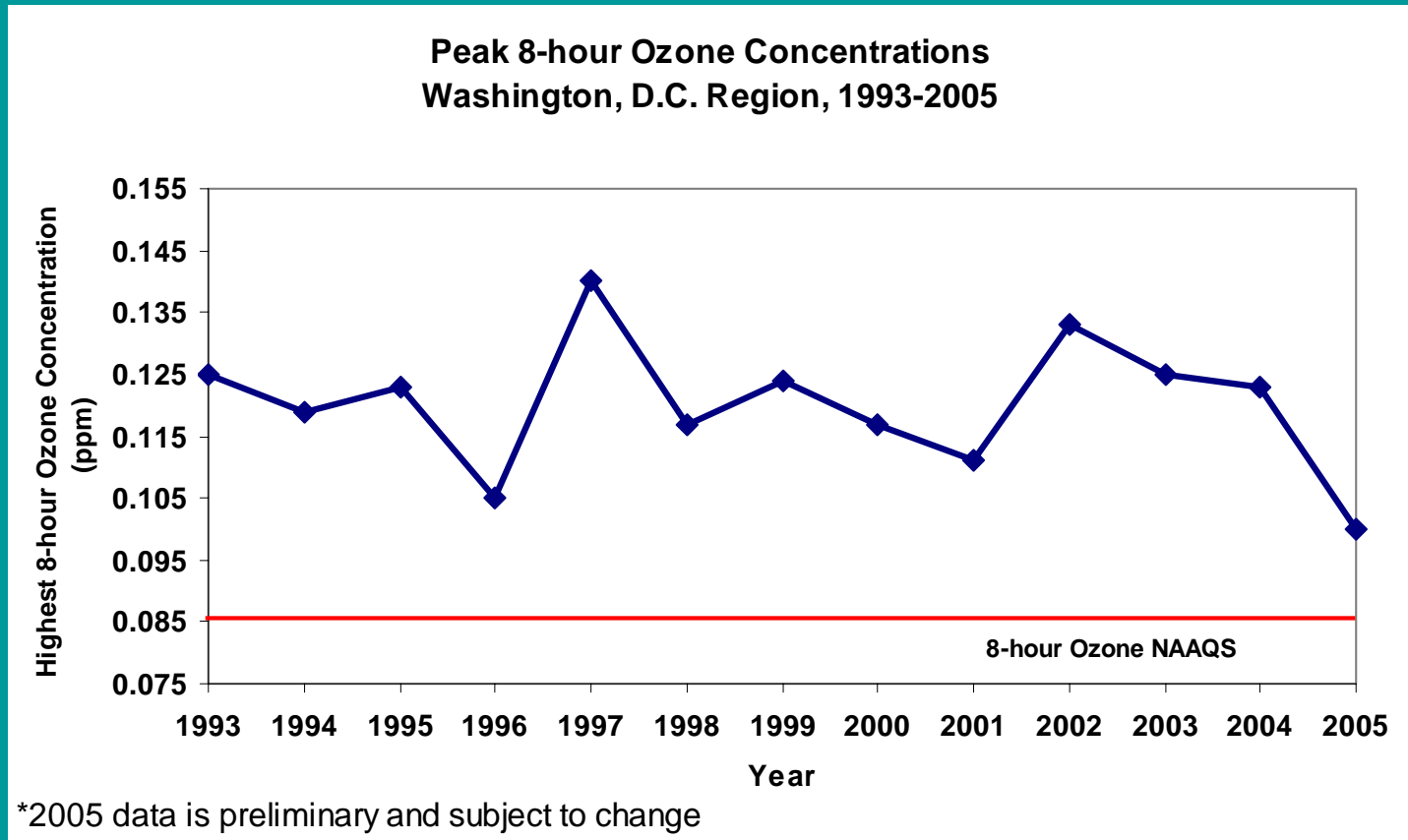
Exceedances of 8-hour Ozone Standard
Washington, D.C. Region, 1993-2005



*2005 data is preliminary and subject to

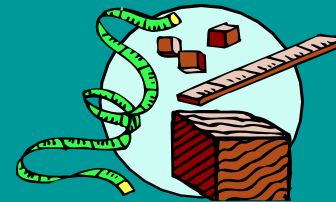
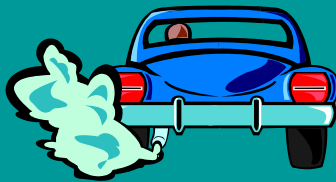


Peak 8-hr Ozone Concentrations

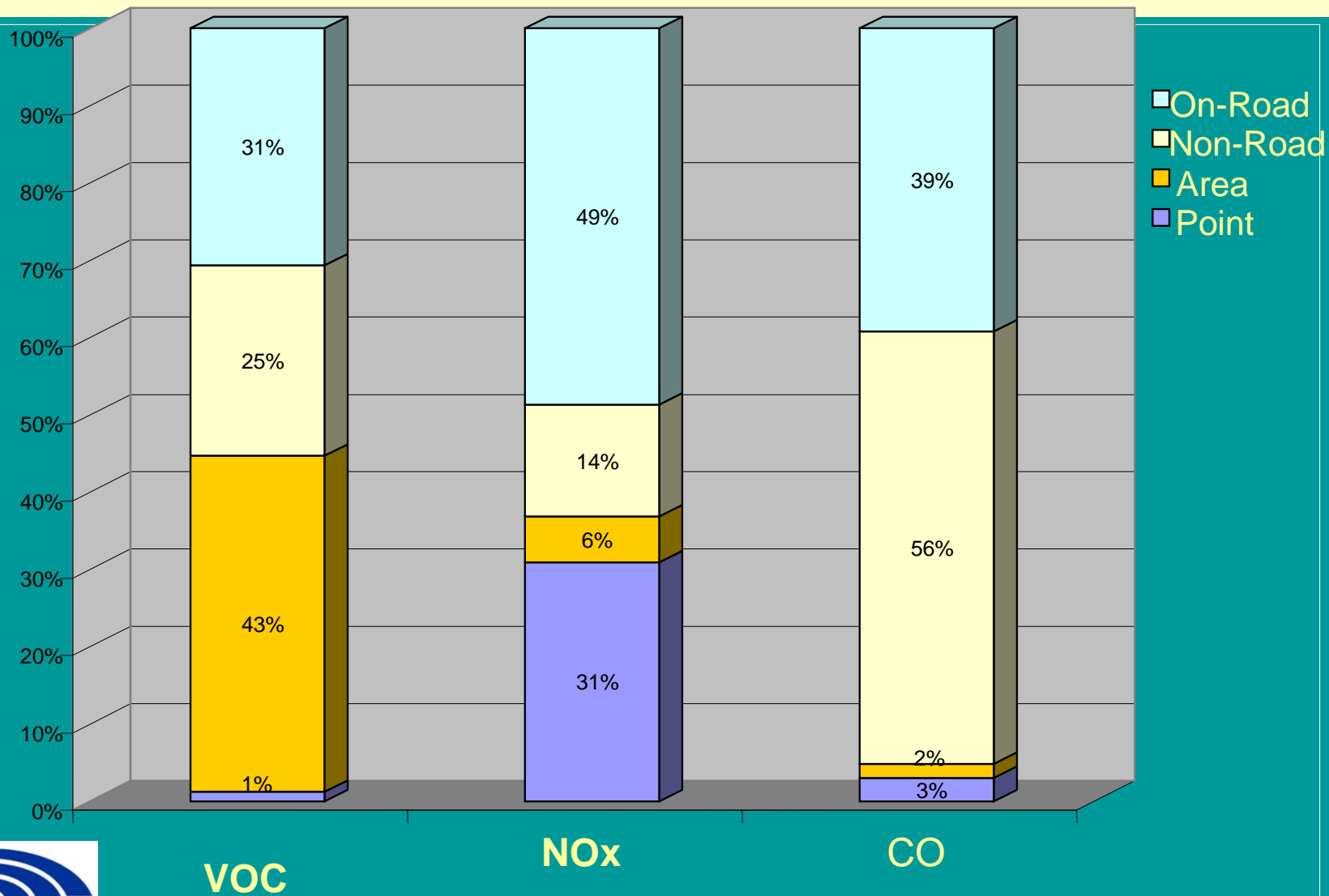


Preliminary Analysis

- “On the Books” and “On the Way” controls reduce emissions $>21\%$
- More Reductions are needed to meet 8 hr standard.



2002 Emissions by Source Sector

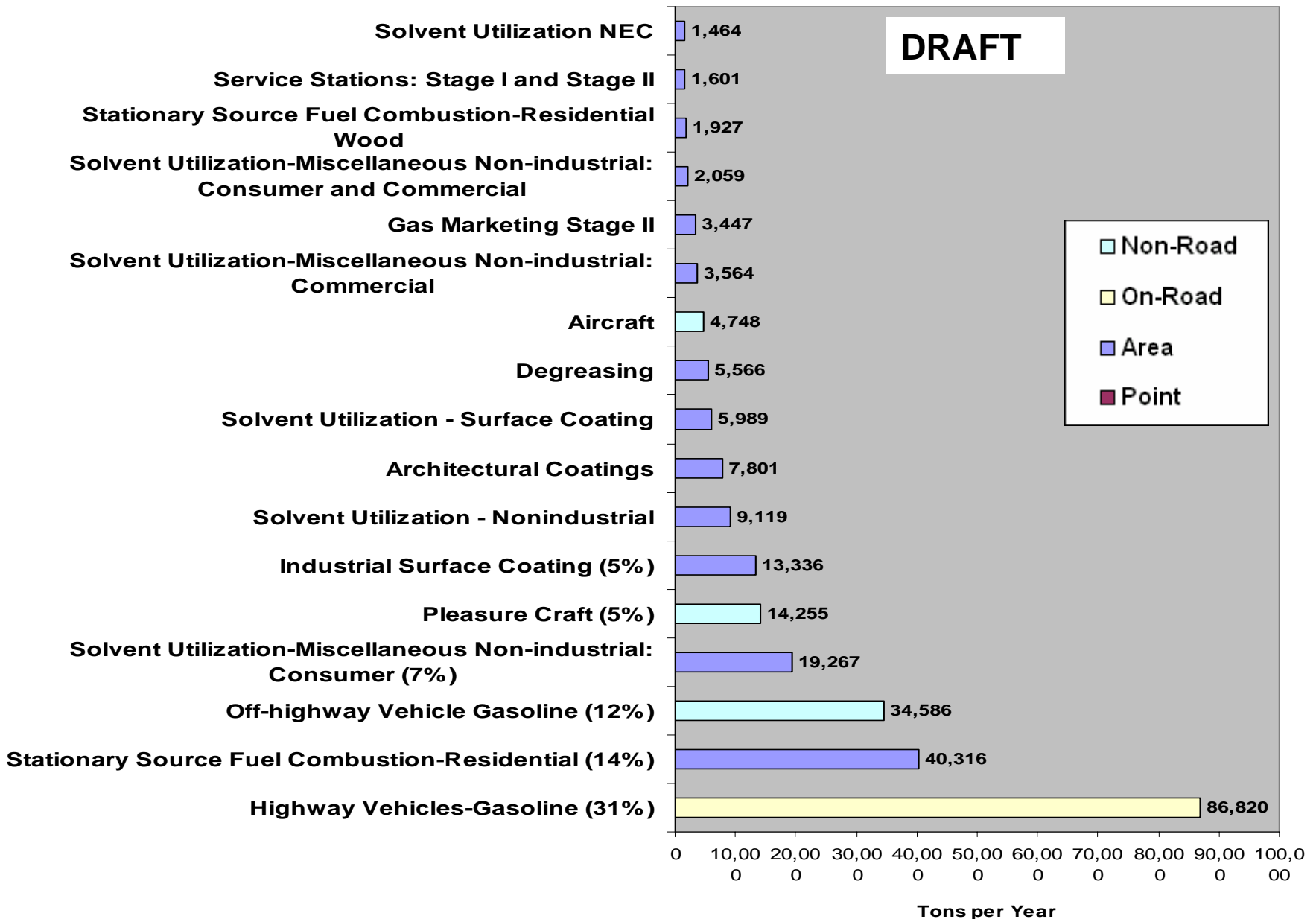


Contributing Sources

- Analysis of emissions by Source Classification Code (SCC)
- List of top contributing sources suggests where control programs are needed and may be most effective

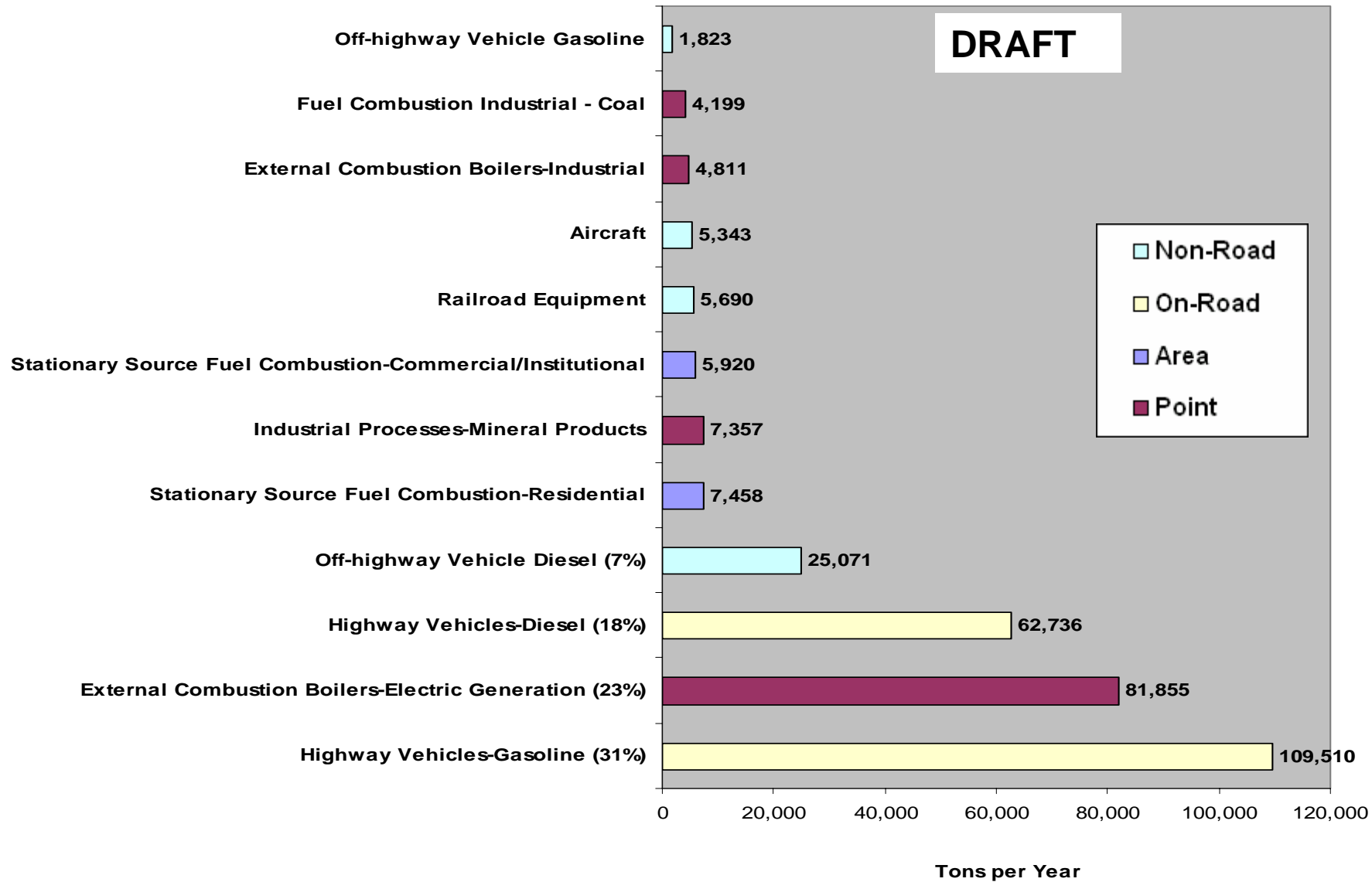


**Washington, DC-MD-VA Nonattainment Area 2002 VOC Inventory
(Top Source Categories)
Total Emissions - 283,082 t/yr**



Washington, DC-MD-VA Nonattainment Area 2002 NOx Inventory (Top Source Categories) Total Emissions - 353,991 t/yr

DRAFT



Top Contributing Sources

VOC

- Highway gas vehicles, 31%
- Residential heating, 14%
- Off-road gas Vehicles, 12%
- Consumer solvents, 7%

NOx

- Highway gas vehicles, 31%
- Electric generation, 23%
- Highway diesel vehicles, 18%
- Off-road diesel vehicles, 7%



Attainment Modeling Results

- Attainment modeling can demonstrate the benefits of regional control strategies
- Local voluntary programs have small emissions benefits which do not affect modeling results
- Modeling results will be supported by Weight of Evidence



Next Steps

- Complete Attainment Modeling Winter 2005
- Finalize Control Strategy, Jan-Feb 2006
- Introduce New Legislation and Regulations Winter/Spring 2006
- Complete SIP Fall/Winter 2006



Washington Region SIP Deadlines

