

OC Blank Corrections  
used by OAQPS/EMAD/AQTAG

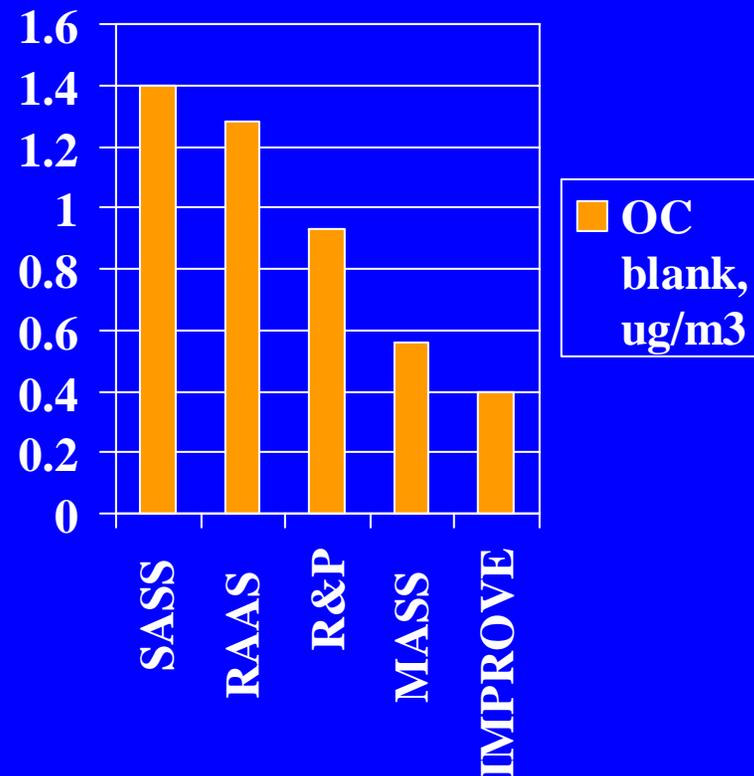
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# Preliminary OC Blank Correction (used in initial EPA data analyses, 2001)

- Derived from network average quartz filter field blanks to adjust annual averages
- Adjusted by 24-hr sampler volume
  - MetOne (SASS): 9.6 m<sup>3</sup>
  - Anderson (RAAS): 10.4 m<sup>3</sup>
  - R&P: 14.4 m<sup>3</sup>
  - URG (MASS): 24 m<sup>3</sup>
  - IMPROVE: 32.8 m<sup>3</sup>



# Newest Blank Corrections Are Slightly Different

Table 4-1. Preliminary Blank Correction Factors.<sup>†</sup>

Sampler Type	Elemental Carbon		Organic Carbon		Total Carbon	
	EC Mass, $\mu\text{gC}/\text{filter}$	EC Conc, $\mu\text{gC}/\text{m}^3$	OC Mass, $\mu\text{gC}/\text{filter}$	OC Conc, $\mu\text{gC}/\text{m}^3$	TC Mass, $\mu\text{gC}/\text{filter}$	TC Conc, $\mu\text{gC}/\text{m}^3$
URG MASS	0.63	0.03	7.08	0.29	7.71	0.32
R and P 2300	3.21	0.22	12.93	0.90	16.13	1.12
Andersen RAAS	0.97	0.09	12.54	1.19	13.51	1.29
R&P 2025	1.67	0.07	18.42	0.77	19.91	0.83
MetOne SASS	1.03	0.11	13.75	1.42	14.78	1.53

OC values in  
initial analysis

0.56

0.93

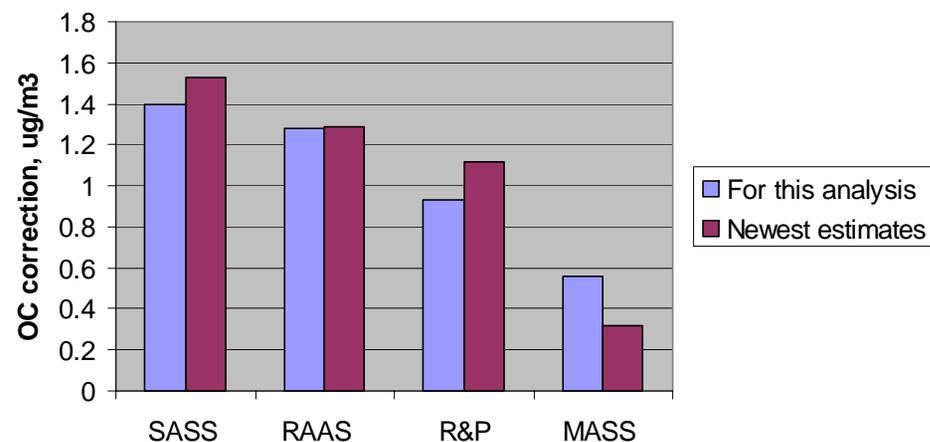
1.28

1.4

Ann Avg Measured  
urban OC = ~ 6-8  $\mu\text{g}/\text{m}^3$   
(Eastern US, STN)

Reference: **Analysis of Speciation  
Network Carbon Blank Data**  
DRAFT REPORT, Flanagan et al  
RTI International August 30, 2002

Newest Blank Corrections



Evaluation of OC blank correction for 12-month averages  
*using measured OC vs PM2.5 mass*

