

# The Missing MSAT – Diesel Particulate Matter

\* \* \* \* \*  
 \* Corridor 1, Build - 2030, Freeway at 34 mph, Jan - Mar  
 \* File 1, Run 1, Scenario 1.  
 \* \* \* \* \*

Calendar Year: 2030  
 Month: Jan.  
 Gasoline Fuel Sulfur Content: 30. ppm  
 Diesel Fuel Sulfur Content: 11. ppm  
 Particle Size Cutoff: 10.00 Microns  
 Reformulated Gas: No

Vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7413	0.1770	0.0246		0.0128	0.0007	0.0004	0.0242	0.0190	1.0000
Composite Emission Factors (g/ml):										
ECARBON:						0.0071	0.0037	0.0123		0.0003
OCARBON:						0.0020	0.0053	0.0086		0.0002
S04:	0.0002	0.0004	0.0004	0.0004	0.0020	0.0001	0.0002	0.0006	0.0001	0.0003
Total Exhaust PM:	0.0042	0.0042	0.0042	0.0042	0.0101	0.0092	0.0093	0.0216	0.0206	0.0050
Total PM:	0.0247	0.0247	0.0247	0.0247	0.0315	0.0298	0.0298	0.0536	0.0371	0.0258

$$\begin{aligned}
 \text{DPM EF} &= \text{LDDV EFe} \times \text{LDDV VMTf} + \text{LDDT EFe} \times \text{LDDT VMTf} + \text{HDDV EFe} \times \text{HDDV VMTf} \\
 &= 0.0092 \times 0.0007 + 0.0093 \times 0.0004 + 0.0216 \times 0.0242 \\
 &= 0.533 \text{ mg/VMT}
 \end{aligned}$$