

Supplemental Material, Table 1. Percentage increase (95% confidence interval) in mortality rate per 10  $\mu\text{g}/\text{m}^3$   $\text{PM}_{2.5}$  from the log-linear regression model and stratified by 3 regions, and relative risks for 3 levels of adjustment for demographic and socioeconomic variables.

Adjustment	Eastern U.S. (n=2,938)	Central U.S. (n=990)	Western U.S. (n=640)
Age	13.0 15.5 18.0	13.3 17.8 22.2	-1.9 0.3 2.5
Age + SES	8.4 10.5 12.5	5.2 8.9 12.5	-2.2 -0.3 1.6
Age + SES + COPD	4.9 6.8 8.7	9.5 13.2 16.9	-3.0 -1.1 0.8

Females

Adjustment	Eastern U.S. (n=2,938)	Central U.S. (n=990)	Western U.S. (n=640)
Age	13.7 16.3 18.9	12.2 16.5 20.9	-3.7 -1.3 1.1
Age + SES	9.9 12.2 14.6	5.0 9.0 13.0	-2.6 -0.5 1.6
Age + SES + COPD	6.3 8.5 10.6	9.2 13.3 17.3	-3.7 -1.6 0.4

Males

Adjustment	Eastern U.S. (n=2,938)	Central U.S. (n=990)	Western U.S. (n=640)
Age	13.8 16.4 19.0	16.4 21.6 26.8	-0.2 1.9 4.1
Age + SES	8.5 10.4 12.4	8.2 12.0 15.8	-1.4 0.6 2.6
Age + SES + COPD	5.2 7.0 8.8	12.5 16.4 20.2	-2.0 0.0 1.9

Low SES (mean rank of SES variables less than or equal to 2309)

Adjustment	Eastern U.S. (n=1,435)	Central U.S. (n=516)	Western U.S. (n=333)
Age	9.0 12.1 15.3	6.0 11.3 16.6	-5.6 -2.8 -0.0
Age + SES	6.9 9.9 12.8	3.3 8.9 14.4	-1.9 0.6 3.1
Age + SES + COPD	4.1 6.9 9.8	7.8 13.3 18.8	-3.0 -0.5 2.0

High SES (mean rank of SES variables greater than 2309)

Adjustment	Eastern U.S. (n=1,503)	Central U.S. (n=474)	Western U.S. (n=307)
Age	6.9 10.0 13.0	1.5 7.2 12.8	-7.4 -4.1 -0.9
Age + SES	8.8 11.6 14.3	3.4 7.5 11.7	-4.0 -1.2 1.6
Age + SES + COPD	5.9 8.3 10.8	5.9 10.0 14.1	-4.4 -1.6 1.1

Supplemental Material, Figure 1: Scatter plot matrix of socio-economic variables (in log scale), standardized COPD mortality ratios, PM<sub>2.5</sub>, and the logit of mortality for the zip codes located in the Eastern region of the U.S. The numbers in panels denote the minimum and the maximum of each variable.

