

SUPPORTING MATERIAL

Airborne inhalable metals in residential areas of Delhi, India: distribution, source apportionment and health risks

P.S. Khillare, Sayantan Sarkar

Environmental Monitoring and Assessment Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi – 110067, India

CONTENT

Table S1. Meteorological data recorded in Delhi during the study period (December 2008 – November 2009).

Table S2. Correlation coefficients between analyzed metals (mean of three sites) and 5-day averaged meteorological parameters (N=46).

Corresponding author: P. S. Khillare (Room No. 325, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi – 110067, India; Email: psk@mail.jnu.ac.in)

Table S1. Meteorological data recorded in Delhi during the study period (December 2008 – November 2009)

Months	Max T (°C)	Min T (°C)	Mean T (°C)	Wind speed (km hr ⁻¹)	Rainfall (mm)	RH (%)	BSS (day ⁻¹)
December	23.4	8.2	15.8	1.4	0	69.4	4
January	20.5	7.2	13.8	1.3	4.3	76.8	4.6
February	24.7	9.4	17	1.9	6.5	63.9	7.6
March	30.1	13.9	22	1.8	3.9	55	7.6
April	36.6	20.1	28.4	5.2	2	39.4	8.9
May	39.0	24.2	31.6	4.6	43.3	49.4	8.9
June	41.4	27.4	34.4	6.3	5.4	43.9	8.7
July	35.8	26.6	31.2	2.7	124.2	68.2	6.1
August	34.7	26.1	30.4	2.3	175.6	69.3	5.8
September	33.4	23.2	28.3	2.8	201.9	72.8	7.4
October	32.7	16.4	24.6	3.1	0.3	60.7	7.6
November	26.9	11.7	19.3	2.6	14.2	70.6	5.1

All values reported are monthly means.

RH denotes relative humidity; BSS denotes bright sunshine hours.

Source: Integrated Agromet Advisory Services, Indian Agricultural Research Institute (IARI), New Delhi.

Table S2. Correlation coefficients between analyzed metals (mean of three sites) and 5-day averaged meteorological parameters (N=46)

	Fe	Mn	Cd	Cu	Ni	Pb	Zn	Cr	Temp	Rain	WS	RH	BSS
Fe	1												
Mn	0.63**	1											
Cd	0.05	0.27	1										
Cu	0.29	0.39**	0.48**	1									
Ni	0.18	0.44**	0.58**	0.60**	1								
Pb	0.62**	0.52**	0.29*	0.69**	0.61**	1							
Zn	0.20	0.39*	0.57**	0.57**	0.68**	0.48**	1						
Cr	0.11	0.29*	0.54**	0.74**	0.76**	0.58**	0.70**	1					
Temp	0.41**	0.10	-0.55**	-0.30*	-0.57**	-0.18	-0.39**	-0.56**	1				
Rain	-0.25	-0.35*	-0.37*	-0.33*	-0.45**	-0.42*	-0.42**	-0.43**	0.16	1			
WS	0.51**	0.27	-0.33*	-0.08	-0.16	0.08	-0.22	-0.17	0.63**	-0.11	1		
RH	-0.56**	-0.53**	0.16	-0.10	-0.08	-0.29	0.02	-0.06	-0.48**	0.42**	-0.62**	1	
BSS	0.40**	0.26	-0.32*	-0.13	-0.11	0.04	-0.19	-0.14	0.51**	-0.2	0.44**	-0.69**	1

N = number of samples. Significant correlations are shown in bold.

*p<0.05, **p<0.01.

Temp: mean temperature; Rain: rainfall; WS: wind speed; RH: relative humidity; BSS: bright sunshine hours