

Supplemental Material

Table A1. Percent change in mortality per 1 $\mu\text{g}/\text{m}^3$ increase in pollutant concentration (beta coefficient *100) and excess risk per IQR [(IRR-1)*100].

Outcome	Pollutant	Lag day	All Year					Cool Season (October-March)						
			beta*100 (%) change in mortality per unit increase ($\mu\text{g}/\text{m}^3$)			excess risk per IQR	95% Lower CL	95% Upper CL	beta*100 (%) change in mortality per unit increase ($\mu\text{g}/\text{m}^3$)			excess risk per IQR	95% Lower CL	95% Upper CL
			IQR	excess risk ($\mu\text{g}/\text{m}^3$)	per IQR				IQR	excess risk ($\mu\text{g}/\text{m}^3$)	per IQR			
All cause mortality	PM2.5c ^a	0	0.024	14.625	0.35	-0.75	1.46	0.045	21.47	0.97	-1.47	3.47		
		1	-0.016	14.625	-0.23	-1.84	1.40	0.007	21.47	0.15	-1.96	2.30		
		2	0.022	14.625	0.32	-0.71	1.37	0.024	21.47	0.52	-1.20	2.27		
		3	0.056	14.625	0.82	-0.25	1.90	0.084	21.47	1.82	0.03	3.64		
	EC	0	-0.071	0.795	-0.06	-1.35	1.25	0.421	1.135	0.48	-1.29	2.28		
		1	-0.041	0.795	-0.03	-1.62	1.58	0.830	1.135	0.95	-1.46	3.42		
		2	0.600	0.795	0.48	-0.71	1.68	0.929	1.135	1.06	-0.62	2.77		
		3	0.829	0.795	0.66	-0.55	1.89	1.502	1.135	1.72	-0.01	3.48		
	OC	0	-0.024	4.592	-0.11	-1.32	1.11	0.116	6.124	0.71	-0.79	2.24		
		1	-0.031	4.592	-0.14	-1.56	1.30	0.065	6.124	0.40	-1.16	1.98		
		2	0.100	4.592	0.46	-0.63	1.56	0.101	6.124	0.62	-0.78	2.04		
		3	0.138	4.592	0.64	-0.44	1.73	0.225	6.124	1.39	-0.02	2.81		
	NO ₃	0	0.204	5.524	1.13	-0.06	2.35	0.207	7.985	1.67	-0.76	4.15		
		1	-0.154	5.524	-0.85	-2.54	0.88	-0.083	7.985	-0.66	-3.01	1.74		
		2	0.004	5.524	0.02	-1.24	1.30	0.044	7.985	0.35	-1.50	2.24		
		3	0.018	5.524	0.10	-1.06	1.28	0.104	7.985	0.83	-1.02	2.72		
	SO ₄	0	0.072	1.530	0.11	-1.40	1.65	1.035	1.233	1.28	0.02	2.56		
		1	-0.968	1.530	-1.47	-4.47	1.62	0.528	1.233	0.65	-0.84	2.16		
		2	0.120	1.530	0.18	-1.16	1.55	0.473	1.233	0.58	-1.06	2.25		
		3	-0.189	1.530	-0.29	-1.72	1.17	0.936	1.233	1.16	-0.08	2.42		
	Al	0	-11.764	0.051	-0.60	-1.45	0.26	9.641	0.042	0.41	-0.81	1.64		
		1	-6.530	0.051	-0.33	-1.20	0.54	9.128	0.042	0.38	-0.84	1.62		
		2	7.542	0.051	0.39	-0.41	1.19	23.200	0.042	0.98	-0.19	2.17		
		3	0.679	0.051	0.03	-0.79	0.86	26.367	0.042	1.11	-0.30	2.55		
	Br	0	71.502	0.004	0.29	-1.35	1.97	295.267	0.004	1.19	-0.66	3.07		
		1	-79.286	0.004	-0.32	-2.69	2.10	199.468	0.004	0.80	-1.30	2.94		
		2	-64.995	0.004	-0.27	-1.86	1.35	182.678	0.004	0.73	-0.96	2.46		
		3	-178.043	0.004	-0.73	-2.35	0.92	261.415	0.004	1.05	-0.78	2.91		
	Ca	0	-11.309	0.064	-0.72	-1.50	0.07	6.110	0.066	0.40	-1.29	2.13		
		1	-1.587	0.064	-0.10	-1.23	1.05	24.228	0.066	1.61	0.10	3.15		
		2	-2.883	0.064	-0.18	-1.28	0.92	15.322	0.066	1.02	-0.12	2.16		
		3	-4.855	0.064	-0.31	-1.04	0.43	29.583	0.066	1.97	-0.11	4.10		
	Cl	0	-0.743	0.069	-0.05	-0.41	0.31	4.126	0.083	0.34	-0.61	1.30		
		1	5.270	0.069	0.36	0.00	0.73	12.993	0.083	1.08	0.39	1.79		
		2	-2.683	0.069	-0.19	-0.85	0.48	-2.197	0.083	-0.18	-1.33	0.98		
		3	5.384	0.069	-0.37	-0.22	0.97	3.669	0.083	0.30	-0.40	1.01		
	Cu	0	-46.862	0.007	-0.34	-1.13	0.45	162.893	0.008	1.31	-0.28	2.93		
		1	100.228	0.007	0.73	0.09	1.39	211.619	0.008	1.71	-0.10	3.54		
		2	34.749	0.007	0.25	-0.43	0.94	110.488	0.008	0.89	-0.37	2.16		
		3	64.084	0.007	0.47	-0.23	1.18	162.713	0.008	1.31	-0.40	3.05		
	Fe	0	0.108	0.099	0.01	-1.25	1.28	5.919	0.117	0.69	-0.87	2.29		
		1	-3.814	0.099	-0.38	-2.20	1.47	6.347	0.117	0.75	-1.59	3.13		
		2	4.094	0.099	0.41	-0.79	1.62	11.089	0.117	1.31	-0.20	2.84		
		3	5.020	0.099	0.50	-0.70	1.71	19.467	0.117	2.30	0.75	3.88		
	K	0	-2.054	0.081	-0.17	-0.56	0.22	4.472	0.112	0.50	-1.40	2.44		
		1	3.941	0.081	0.32	-0.14	0.79	2.621	0.112	0.29	-1.21	1.82		
		2	3.323	0.081	0.27	-0.15	0.69	5.173	0.112	0.58	-0.83	2.02		
		3	2.722	0.081	0.22	-0.26	0.71	14.291	0.112	1.61	0.21	3.04		
	Mn	0	-355.974	0.003	-1.03	-2.10	0.06	71.448	0.003	0.21	-1.32	1.78		
		1	-40.605	0.003	-0.12	-2.21	2.02	122.289	0.003	0.37	-2.06	2.85		
		2	300.669	0.003	0.88	-0.39	2.15	534.845	0.003	1.62	0.15	3.11		
		3	-53.095	0.003	-0.15	-1.20	0.91	477.921	0.003	1.44	-0.10	3.01		
	Ni	0	19.285	0.003	0.06	-0.10	0.21	31.698	0.003	0.10	-0.37	0.56		
		1	-14.205	0.003	-0.04	-0.22	0.14	-87.640	0.003	-0.26	-1.14	0.62		
		2	-33.581	0.003	-0.10	-0.33	0.13	23.298	0.003	0.07	-0.19	0.33		
		3	27.525	0.003	0.08	-0.12	0.29	88.639	0.003	0.27	-0.33	0.86		
	Pb	0	133.073	0.004	0.56	-0.25	1.37	130.883	0.005	0.66	-0.38	1.70		
		1	103.391	0.004	0.44	-0.40	1.28	80.189	0.005	0.40	-0.70	1.51		
		2	11.936	0.004	0.05	-0.76	0.87	-19.516	0.005	-0.10	-1.16	0.98		
		3	162.405	0.004	0.68	-0.21	1.59	344.305	0.005	1.74	0.24	3.26		
	S	0	0.201	0.499	0.10	-1.26	1.48	3.158	0.434	1.38	-0.16	2.95		
		1	-4.551	0.499	-2.24	-5.72	1.36	0.780	0.434	0.34	-1.50	2.21		
		2	-0.005	0.499	0.00	-1.41	1.42	0.459	0.434	0.20	-1.09	1.51		
		3	-0.535	0.499	-0.27	-1.54	1.02	3.361	0.434	1.47	0.15	2.81		
	Si	0	-3.736	0.151	-0.56	-1.77	0.66	5.558	0.132	0.74	-0.63	2.12		
		1	-3.708	0.151	-0.56	-1.83	0.73	9.089	0.132	1.21	-0.17	2.60		
		2	2.422	0.151	0.37	-0.79	1.53	7.766	0.132	1.03	-0.27	2.35		
		3	0.006	0.151	0.00	-1.09	1.11	14.945	0.132	1.99	0.66	3.35		
	Ti	0	-3.444	0.008	-0.03	-1.19	1.15	136.332	0.008	1.10	-0.61	2.83		
		1	119.566	0.008	0.91	-0.44	2.28	281.661	0.008	2.28	0.14	4.46		
		2	41.483	0.008	0.32	-0.89	1.54	226.142	0.008	1.83	-0.09	3.77		
		3	88.029	0.008	0.67	-0.43	1.78	345.607	0.008	2.80	1.14	4.49		
	V	0	109.976	0.003	0.28	-2.10	2.72	785.417	0.002	1.58	-0.55	3.77		
		1	307.611	0.003	0.79	-0.78	2.38	840.244	0.002	1.69	0.57	2.84		
		2	-260.929	0.003	-0.66	-2.15	0.84	-3.787	0.002	-0.01	-1.67	1.69		
		3	-136.510	0.003	-0.35	-1.84	1.17	615.873	0.002	1.24	-0.46	2.96		
	Zn	0</												

Outcome	Pollutant	Lag day	All Year					Cool Season (October-March)				
			beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL	beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL
			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR		
Cardiovascular	PM2.5c ^a	0	0.030	14.625	0.44	-1.17	2.07	0.069	21.47	1.49	-2.94	6.12
		1	0.094	14.625	1.38	-0.22	3.01	0.059	21.47	1.27	-1.36	3.98
		2	0.071	14.625	1.04	-0.86	2.98	0.008	21.47	0.17	-3.13	3.59
		3	0.105	14.625	1.55	-0.02	3.14	0.142	21.47	3.10	0.21	6.07
	EC	0	0.332	0.795	0.26	-1.57	2.14	0.739	1.135	0.84	-1.90	3.66
		1	1.397	0.795	1.12	-1.12	3.41	1.898	1.135	2.18	-1.58	6.08
		2	1.619	0.795	1.30	-0.52	3.14	0.787	1.135	0.90	-1.64	3.50
		3	2.574	0.795	2.07	0.29	3.87	2.019	1.135	2.32	-1.01	5.76
	OC	0	-0.021	4.592	-0.10	-1.78	1.61	0.181	6.124	1.11	-1.96	4.28
		1	0.191	4.592	0.88	-0.85	2.64	0.233	6.124	1.44	-0.84	3.77
		2	0.104	4.592	0.48	-1.14	2.12	-0.031	6.124	-0.19	-2.25	1.92
		3	0.334	4.592	1.55	-0.06	3.18	0.371	6.124	2.30	-0.43	5.10
	NO ₃	0	0.184	5.524	1.02	-0.75	2.82	0.251	7.985	2.02	-1.73	5.93
		1	0.014	5.524	0.08	-2.25	2.46	0.030	7.985	0.24	-2.37	2.92
		2	0.137	5.524	0.76	-1.73	3.31	0.020	7.985	0.16	-2.75	3.16
		3	0.273	5.524	1.52	-0.24	3.31	0.327	7.985	2.65	-0.10	5.47
	SO ₄	0	0.659	1.530	1.01	-1.01	3.08	1.620	1.233	2.02	-0.37	4.46
		1	0.199	1.530	0.30	-2.54	3.23	0.204	1.233	0.25	-2.61	3.20
		2	0.193	1.530	0.30	-1.75	2.39	-0.635	1.233	-0.78	-2.60	1.08
		3	0.356	1.530	0.55	-1.39	2.52	1.611	1.233	2.01	0.18	3.87
	Al	0	-6.991	0.051	-0.36	-1.62	0.92	-0.331	0.042	-0.01	-2.30	2.33
		1	1.991	0.051	0.10	-1.21	1.43	17.402	0.042	0.73	-1.07	2.57
		2	17.697	0.051	0.91	-0.31	2.14	22.166	0.042	0.94	-1.38	3.31
		3	-4.091	0.051	-0.21	-1.46	1.06	20.926	0.042	0.88	-1.57	3.40
	Br	0	-15.729	0.004	-0.06	-2.47	2.40	351.354	0.004	1.42	-2.83	5.84
		1	281.521	0.004	1.16	-2.07	4.50	340.943	0.004	1.37	-1.63	4.47
		2	-9.492	0.004	-0.04	-2.88	2.89	-142.512	0.004	-0.57	-3.54	2.50
		3	140.337	0.004	0.58	-1.85	3.07	549.969	0.004	2.22	-1.41	6.00
	Ca	0	-13.159	0.064	-0.84	-1.99	0.33	11.484	0.066	0.76	-3.61	5.33
		1	5.378	0.064	0.34	-1.27	1.99	24.802	0.066	1.65	-0.61	3.96
		2	3.490	0.064	0.22	-1.87	2.36	12.188	0.066	0.81	-1.72	3.40
		3	-3.269	0.064	-0.21	-1.44	1.04	33.711	0.066	2.25	-1.76	6.42
	Cl	0	-3.411	0.069	-0.24	-0.77	0.30	4.770	0.083	0.40	-0.73	1.54
		1	3.816	0.069	0.26	-0.29	0.82	15.583	0.083	1.30	0.05	2.57
		2	1.128	0.069	0.08	-0.77	0.93	-9.878	0.083	-0.82	-2.86	1.27
		3	6.246	0.069	0.43	-0.43	1.31	11.792	0.083	0.98	-0.30	2.28
	Cu	0	-56.937	0.007	-0.42	-1.60	0.78	114.523	0.008	0.92	-1.07	2.96
		1	106.968	0.007	0.78	-0.23	1.81	310.309	0.008	2.51	0.49	4.58
		2	48.363	0.007	0.35	-0.65	1.37	65.158	0.008	0.52	-1.50	2.59
		3	112.030	0.007	0.82	-0.84	2.51	191.185	0.008	1.54	-0.58	3.71
	Fe	0	-1.769	0.099	-0.18	-2.02	1.70	7.062	0.117	0.83	-2.93	4.74
		1	4.500	0.099	0.45	-2.09	3.05	9.426	0.117	1.11	-1.92	4.23
		2	18.364	0.099	1.84	-0.03	3.75	15.008	0.117	1.77	-0.57	4.16
		3	9.926	0.099	0.99	-0.78	2.79	24.260	0.117	2.88	0.04	5.80
	K	0	3.254	0.081	0.27	-0.63	1.17	4.865	0.112	0.55	-3.90	5.20
		1	2.576	0.081	0.21	-0.25	0.67	9.797	0.112	1.10	-1.29	3.56
		2	6.155	0.081	0.50	0.04	0.96	0.302	0.112	0.03	-2.25	2.37
		3	6.862	0.081	0.56	-0.46	1.59	21.225	0.112	2.41	-1.00	5.92
	Mn	0	-66.512	0.003	-0.19	-1.77	1.41	442.442	0.003	1.34	-1.95	4.73
		1	-12.705	0.003	-0.04	-2.32	2.30	51.678	0.003	0.16	-3.68	4.14
		2	351.420	0.003	1.02	-0.53	2.60	444.226	0.003	1.34	-0.92	3.65
		3	264.426	0.003	0.77	-0.80	2.36	962.019	0.003	2.93	0.65	5.26
	Ni	0	10.746	0.003	0.03	-0.20	0.27	179.257	0.003	0.54	-0.55	1.64
		1	25.392	0.003	0.08	-0.19	0.34	-4.563	0.003	-0.01	-0.84	0.82
		2	-10.107	0.003	-0.03	-0.30	0.24	24.327	0.003	0.07	-0.36	0.51
		3	43.026	0.003	0.13	-0.45	0.72	53.948	0.003	0.16	-0.76	1.09
	Pb	0	62.079	0.004	0.26	-0.95	1.49	70.489	0.005	0.35	-1.81	2.57
		1	137.028	0.004	0.58	-0.61	1.78	154.749	0.005	0.78	-0.76	2.34
		2	9.283	0.004	0.04	-1.26	1.36	-128.484	0.005	-0.64	-2.36	1.10
		3	182.012	0.004	0.77	-0.74	2.30	373.499	0.005	1.89	-0.57	4.40
	S	0	1.625	0.499	0.81	-1.22	2.89	4.320	0.434	1.89	-1.16	5.04
		1	-1.932	0.499	-0.96	-4.50	2.71	0.753	0.434	0.33	-2.63	3.38
		2	1.147	0.499	0.57	-1.47	2.66	-1.556	0.434	-0.67	-2.64	1.33
		3	0.561	0.499	0.28	-1.65	2.24	5.108	0.434	2.24	-0.08	4.62
	Si	0	-7.649	0.151	-1.15	-2.93	0.67	3.414	0.132	0.45	-3.14	4.17
		1	2.696	0.151	0.41	-1.55	2.41	8.546	0.132	1.13	-1.37	3.71
		2	4.200	0.151	0.64	-1.59	2.91	2.677	0.132	0.35	-2.13	2.90
		3	-2.652	0.151	-0.40	-2.11	1.34	16.440	0.132	2.19	-0.96	5.45
	Ti	0	-21.840	0.008	-0.17	-1.89	1.59	-16.546	0.008	-0.13	-3.81	3.69
		1	181.843	0.008	1.39	-0.25	3.06	413.636	0.008	3.36	0.74	6.05
		2	197.267	0.008	1.51	-0.08	3.12	201.467	0.008	1.62	-2.18	5.58
		3	48.471	0.008	0.37	-1.51	2.28	287.087	0.008	2.32	-1.53	6.33
	V	0	313.728	0.003	0.80	-2.05	3.74	1268.425	0.002	2.57	-0.90	6.16
		1	280.505	0.003	0.72	-0.99	2.45	729.119	0.002	1.47	-1.13	4.13
		2	202.012	0.003	0.52	-1.19	2.26	-381.747	0.002	-0.76	-2.47	0.98
		3	60.514	0.003	0.15	-1.72	2.07	913.322	0.002	1.84	0.10	3.61
	Zn	0	40.877	0.011	0.43	-0.95	1.83	140.703	0.014	1.99	-1.76	5.88
		1	20.818	0.011	0.22	-0.60	1.05	79.175	0.014	1.11	-1.06	3.34
		2	66.177	0.011	0.70	-0.15	1.55	41.151	0.014	0.58	-0.68	1.86
		3	210.334	0.011	2.23	0.33	4.18	244.918	0.014	3.49	0.76	6.29
	PM2.5ext ^b	0	0.046	15.115	0.70	0.07	1.33	0.075	19.8	1.50	0.59	2.42
		1	0.044	15.115	0.67	0.02	1.32	0.092	19.8	1.84	0.90	2.78
		2	0.025	15.115	0.38	-0.27	1.03	0.081	19.8	1.62	0.69	2.55
		3	0.022	15.115	0.33	-0.28	0.95	0.077	19.8	1.54	0.63	2.46

Outcome	Pollutant	Lag day	All Year					Cool Season (October-March)				
			beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL	beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL
			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR		
Respiratory	PM2.5 ^a	0	-0.023	14.625	-0.34	-4.32	3.81	-0.186	21.47	-3.91	-11.36	4.16
		1	-0.129	14.625	-1.87	-4.87	1.23	-0.056	21.47	-1.20	-6.12	3.99
		2	0.065	14.625	0.96	-2.35	4.37	0.194	21.47	4.25	-2.33	11.28
		3	0.098	14.625	1.44	-1.50	4.48	-0.062	21.47	-1.32	-6.29	3.90
	EC	0	-4.457	0.795	-3.48	-7.95	1.21	-4.204	1.135	-4.66	-11.83	3.09
		1	1.465	0.795	1.17	-2.23	4.69	1.483	1.135	1.70	-3.03	6.66
		2	-1.554	0.795	-1.23	-5.25	2.97	-0.025	1.135	-0.03	-4.68	4.86
		3	-3.298	0.795	-2.59	-5.90	0.84	-1.821	1.135	-2.05	-6.76	2.91
	OC	0	-0.928	4.592	-4.17	-8.58	0.44	-0.649	6.124	-3.90	-10.17	2.81
		1	0.215	4.592	0.99	-2.13	4.21	0.094	6.124	0.58	-4.04	5.42
		2	-0.172	4.592	-0.79	-6.00	4.72	0.353	6.124	2.19	-3.04	7.69
		3	-0.641	4.592	-2.90	-5.99	0.29	-0.429	6.124	-2.59	-6.56	1.55
	NO ₃	0	-0.071	5.524	-0.39	-4.39	3.78	-0.118	7.985	-0.94	-6.88	5.39
		1	-0.430	5.524	-2.35	-5.64	1.06	-0.371	7.985	-2.92	-7.84	2.26
		2	0.352	5.524	1.96	-1.91	5.99	0.676	7.985	5.55	-1.05	12.59
		3	0.177	5.524	0.98	-2.24	4.31	0.046	7.985	0.37	-4.66	5.66
	SO ₄	0	-0.790	1.530	-1.20	-7.04	5.01	-0.964	1.233	-1.18	-6.98	4.98
		1	0.587	1.530	0.90	-3.06	5.03	-0.150	1.233	-0.18	-3.54	3.29
		2	1.143	1.530	1.76	-2.20	5.89	2.921	1.233	3.67	-1.59	9.20
		3	0.693	1.530	1.07	-2.52	4.79	0.803	1.233	1.00	-2.38	4.49
	Al	0	-3.621	0.051	-0.19	-2.60	2.29	38.073	0.042	1.61	-1.81	5.15
		1	-19.710	0.051	-1.00	-3.42	1.48	44.068	0.042	1.87	-1.63	5.49
		2	-20.579	0.051	-1.05	-3.37	1.33	-16.085	0.042	-0.67	-4.07	2.85
		3	13.759	0.051	0.71	-1.61	3.08	-22.037	0.042	-0.92	-4.37	2.65
	Br	0	-926.130	0.004	-3.73	-8.70	1.52	-859.738	0.004	-3.38	-8.65	2.19
		1	-160.041	0.004	-0.65	-5.25	4.17	150.505	0.004	0.60	-4.81	6.33
		2	-452.009	0.004	-1.84	-6.38	2.93	616.735	0.004	2.50	-3.25	8.59
		3	-375.427	0.004	-1.53	-6.00	3.16	-439.156	0.004	-1.74	-6.51	3.27
	Ca	0	-2.891	0.064	-0.18	-2.30	1.97	-14.952	0.066	-0.98	-7.03	5.45
		1	-18.827	0.064	-1.19	-4.82	2.57	25.406	0.066	1.69	-3.51	7.17
		2	-22.063	0.064	-1.40	-3.47	0.72	-6.318	0.066	-0.42	-3.60	2.88
		3	-5.678	0.064	-0.36	-2.37	1.69	29.744	0.066	1.98	-1.08	5.14
	Cl	0	4.442	0.069	0.31	-0.71	1.34	-11.773	0.083	-0.97	-2.99	1.09
		1	8.027	0.069	0.56	-0.48	1.60	12.773	0.083	1.07	-0.90	3.07
		2	5.351	0.069	0.37	-0.66	1.41	12.921	0.083	1.08	-0.86	3.05
		3	1.995	0.069	0.14	-1.28	1.57	-20.453	0.083	-1.68	-4.59	1.31
	Cu	0	152.024	0.007	1.12	-1.64	3.95	35.383	0.008	0.28	-5.88	6.85
		1	-6.414	0.007	-0.05	-2.12	2.08	166.046	0.008	1.34	-2.49	5.31
		2	62.310	0.007	0.46	-1.51	2.46	96.762	0.008	0.78	-2.99	4.69
		3	286.649	0.007	2.12	0.47	3.79	241.983	0.008	1.95	-1.64	5.68
	Fe	0	-8.764	0.099	-0.87	-5.24	3.70	-17.346	0.117	-2.01	-9.37	5.95
		1	7.727	0.099	0.77	-2.96	4.65	17.777	0.117	2.10	-2.37	6.78
		2	-13.932	0.099	-1.38	-4.80	2.17	-2.906	0.117	-0.34	-4.95	4.50
		3	13.007	0.099	1.30	-1.96	4.67	19.181	0.117	2.27	-1.95	6.68
	K	0	2.437	0.081	0.20	-0.80	1.21	-33.747	0.112	-3.71	-9.30	2.23
		1	-0.300	0.081	-0.02	-1.10	1.06	4.688	0.112	0.53	-3.93	5.18
		2	3.659	0.081	0.30	-0.63	1.23	6.424	0.112	0.72	-4.15	5.85
		3	6.527	0.081	0.53	-0.30	1.38	-24.481	0.112	-2.70	-6.95	1.73
	Mn	0	-282.563	0.003	-0.82	-3.83	2.29	-527.168	0.003	-1.57	-8.07	5.39
		1	191.570	0.003	0.56	-2.43	3.64	718.840	0.003	2.18	-2.16	6.71
		2	-368.456	0.003	-1.06	-4.92	2.95	526.731	0.003	1.59	-4.09	7.62
		3	-43.632	0.003	-0.13	-3.05	2.89	361.112	0.003	1.09	-3.09	5.45
	Ni	0	68.248	0.003	0.20	-0.96	1.38	122.408	0.003	0.37	-1.22	1.99
		1	-7.859	0.003	-0.02	-1.26	1.23	-51.914	0.003	-0.16	-0.92	0.62
		2	-74.583	0.003	-0.22	-0.75	0.31	-189.057	0.003	-0.57	-2.40	1.30
		3	84.091	0.003	0.25	-0.95	1.47	210.580	0.003	0.63	-1.55	2.86
	Pb	0	-21.864	0.004	-0.09	-3.08	2.98	-496.963	0.005	-2.45	-6.54	1.81
		1	-155.100	0.004	-0.65	-3.15	1.92	-221.964	0.005	-1.10	-4.31	2.21
		2	237.450	0.004	1.00	-1.15	3.20	144.931	0.005	0.73	-2.01	3.54
		3	267.460	0.004	1.13	-0.95	3.25	351.884	0.005	1.77	-0.85	4.46
	S	0	-2.851	0.499	-1.41	-6.64	4.11	-2.461	0.434	-1.06	-7.33	5.63
		1	-1.693	0.499	-0.84	-4.82	3.30	-1.887	0.434	-0.82	-4.48	2.99
		2	-0.306	0.499	-0.15	-4.04	3.90	6.973	0.434	3.07	-1.28	7.61
		3	2.101	0.499	1.05	-2.50	4.73	0.795	0.434	0.35	-3.29	4.12
	Si	0	-3.157	0.151	-0.47	-3.99	3.17	5.877	0.132	0.78	-4.50	6.35
		1	-8.499	0.151	-1.27	-5.99	3.68	15.772	0.132	2.10	-2.00	6.38
		2	-16.324	0.151	-2.43	-5.72	0.97	-4.642	0.132	-0.61	-4.35	3.27
		3	10.105	0.151	1.53	-1.71	4.89	9.963	0.132	1.32	-2.48	5.27
	Ti	0	105.599	0.008	0.81	-2.34	4.05	-166.644	0.008	-1.32	-9.07	7.08
		1	-5.939	0.008	-0.05	-3.32	3.34	425.266	0.008	3.46	-1.42	8.58
		2	43.692	0.008	0.33	-2.64	3.40	168.645	0.008	1.36	-3.31	6.25
		3	432.929	0.008	3.34	0.52	6.25	317.106	0.008	2.57	-2.06	7.42
	V	0	-75.756	0.003	-0.19	-3.42	3.15	-550.736	0.002	-1.10	-5.59	3.61
		1	1064.286	0.003	2.75	-0.41	6.02	2107.095	0.002	4.30	-1.51	10.46
		2	-670.136	0.003	-1.70	-4.89	1.60	1016.812	0.002	2.05	-1.26	5.48
		3	68.316	0.003	0.17	-2.91	3.36	955.480	0.002	1.93	-1.22	5.18
	Zn	0	30.434	0.011	0.32	-1.49	2.16	-25.891	0.014	-0.36	-4.86	4.35
		1	191.596	0.011	2.03	-0.36	4.48	290.977	0.014	4.16	-0.50	9.03
		2	30.359	0.011	0.32	-1.89	2.57	143.626	0.014	2.03	-2.82	7.13
		3	-47.808	0.011	-0.50	-2.29	1.32	12.398	0.014	0.17	-2.48	2.90
	PM2.5ext ^b	0	0.083	15.115	1.26	-0.78	3.34	0.149	19.8	2.99	0.71	5.33
		1	0.134	15.115	2.05	0.02	4.12	0.231	19.8	4.68	1.69	7.76
		2	0.087	15.115	1.32	-0.18	2.85	0.173	19.8	3.48	1.36	5.66
		3	0.060	15.115	0.91	-0.32	2.16	0.132	19.8	2.65	0.68	4.6

Outcome	Pollutant	Lag day	All Year					Cool Season (October-March)				
			beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL	beta*100 (%) change in mortality per unit increase)			95% Lower CL	95% Upper CL
			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR			IQR	($\mu\text{g}/\text{m}^3$)	excess risk per IQR		
over 65	PM2.5c ^a	0	0.034	14.625	0.50	-0.40	1.40	0.060	21.47	1.30	-0.82	3.46
		1	-0.011	14.625	-0.16	-1.59	1.29	0.016	21.47	0.34	-2.94	3.74
		2	0.026	14.625	0.38	-0.47	1.24	0.026	21.47	0.56	-1.64	2.81
		3	0.070	14.625	1.03	0.17	1.90	0.095	21.47	2.06	0.00	4.17
	EC	0	-0.200	0.795	-0.16	-1.18	0.87	0.394	1.135	0.45	-1.57	2.51
		1	0.169	0.795	0.13	-1.29	1.58	1.352	1.135	1.55	-2.03	5.26
		2	1.016	0.795	0.81	-0.16	1.79	1.172	1.135	1.34	-0.60	3.32
		3	0.818	0.795	0.65	-0.32	1.64	1.630	1.135	1.87	-0.11	3.88
	OC	0	-0.049	4.592	-0.22	-1.19	0.75	0.118	6.124	0.73	-1.00	2.48
		1	-0.025	4.592	-0.11	-1.34	1.12	0.166	6.124	1.02	-1.57	3.69
		2	0.135	4.592	0.62	-0.38	1.63	0.128	6.124	0.79	-0.83	2.43
		3	0.117	4.592	0.54	-0.34	1.43	0.229	6.124	1.41	-0.21	3.06
	NO3	0	0.246	5.524	1.37	0.41	2.34	0.260	7.985	2.10	-0.17	4.42
		1	-0.169	5.524	-0.93	-2.34	0.51	-0.084	7.985	-0.67	-4.02	2.80
		2	-0.043	5.524	-0.24	-1.20	0.73	0.018	7.985	0.14	-2.02	2.36
		3	0.036	5.524	0.20	-0.74	1.15	0.144	7.985	1.16	-0.94	3.30
	SO4	0	0.347	1.530	0.53	-0.56	1.63	1.202	1.233	1.49	0.12	2.88
		1	-0.715	1.530	-1.09	-2.85	0.71	0.840	1.233	1.04	-0.72	2.84
		2	-0.107	1.530	-0.16	-1.26	0.94	0.171	1.233	0.21	-1.60	2.05
		3	-0.278	1.530	-0.42	-1.74	0.91	0.827	1.233	1.02	-0.35	2.42
	Al	0	-10.041	0.051	-0.51	-1.21	0.19	10.612	0.042	0.45	-0.94	1.85
		1	-6.158	0.051	-0.31	-1.03	0.41	17.001	0.042	0.72	-0.67	2.13
		2	8.669	0.051	0.44	-0.20	1.09	10.801	0.042	0.45	-1.36	2.30
		3	-0.323	0.051	-0.02	-0.75	0.73	13.439	0.042	0.57	-1.22	2.39
	Br	0	172.064	0.004	0.71	-0.63	2.06	351.248	0.004	1.41	-0.62	3.49
		1	-72.598	0.004	-0.30	-1.79	1.22	363.937	0.004	1.47	-1.11	4.11
		2	-122.768	0.004	-0.50	-1.81	0.82	75.551	0.004	0.30	-1.65	2.30
		3	-330.354	0.004	-1.35	-2.65	-0.03	208.428	0.004	0.84	-1.18	2.90
	Ca	0	-12.153	0.064	-0.77	-1.40	-0.14	3.706	0.066	0.24	-1.17	1.68
		1	3.752	0.064	0.24	-0.39	0.88	28.474	0.066	1.90	-0.66	4.52
		2	-3.499	0.064	-0.22	-1.23	0.79	9.617	0.066	0.64	-1.42	2.74
		3	-3.638	0.064	-0.23	-0.90	0.45	27.525	0.066	1.83	-0.15	3.86
	Cl	0	-0.113	0.069	-0.01	-0.30	0.28	2.753	0.083	0.23	-0.82	1.29
		1	6.167	0.069	0.43	0.13	0.72	17.194	0.083	1.44	0.66	2.22
		2	-1.764	0.069	-0.12	-0.56	0.31	-1.453	0.083	-0.12	-1.45	1.22
		3	2.823	0.069	0.20	-0.18	0.57	1.875	0.083	0.16	-0.65	0.97
	Cu	0	-25.794	0.007	-0.19	-0.81	0.44	168.641	0.008	1.36	-0.46	3.21
		1	38.540	0.007	0.28	-0.26	0.83	170.175	0.008	1.37	-1.16	3.97
		2	19.111	0.007	0.14	-0.46	0.74	95.910	0.008	0.77	-0.69	2.25
		3	41.561	0.007	0.30	-0.26	0.87	174.989	0.008	1.41	-0.71	3.57
	Fe	0	-1.694	0.099	-0.17	-1.19	0.86	7.304	0.117	0.86	-0.93	2.68
		1	-3.898	0.099	-0.39	-1.88	1.13	8.428	0.117	0.99	-2.22	4.30
		2	8.179	0.099	0.82	-0.18	1.82	11.374	0.117	1.34	-0.42	3.13
		3	6.202	0.099	0.62	-0.34	1.59	21.079	0.117	2.50	0.74	4.28
	K	0	-0.648	0.081	-0.05	-0.36	0.25	4.878	0.112	0.55	-1.23	2.35
		1	1.589	0.081	0.13	-0.13	0.39	9.361	0.112	1.05	-1.75	3.94
		2	3.647	0.081	0.30	-0.01	0.61	6.087	0.112	0.68	-1.34	2.74
		3	2.615	0.081	0.21	-0.06	0.49	15.251	0.112	1.72	0.11	3.37
	Mn	0	-335.235	0.003	-0.97	-1.84	-0.09	203.212	0.003	0.61	-1.14	2.40
		1	-43.334	0.003	-0.13	-1.59	1.36	54.734	0.003	0.16	-2.69	3.10
		2	200.260	0.003	0.58	-0.64	1.82	295.071	0.003	0.89	-1.45	3.29
		3	13.779	0.003	0.04	-0.81	0.90	438.763	0.003	1.32	-0.42	3.10
	Ni	0	28.999	0.003	0.09	-0.04	0.21	8.334	0.003	0.03	-0.25	0.30
		1	-22.888	0.003	-0.07	-0.21	0.07	-37.671	0.003	-0.11	-1.14	0.93
		2	-41.548	0.003	-0.12	-0.34	0.10	14.500	0.003	0.04	-0.26	0.35
		3	28.616	0.003	0.09	-0.11	0.29	94.091	0.003	0.28	-0.62	1.20
	Pb	0	99.585	0.004	0.42	-0.24	1.08	72.337	0.005	0.36	-0.82	1.56
		1	0.421	0.004	0.00	-0.69	0.70	117.206	0.005	0.59	-1.61	2.84
		2	26.528	0.004	0.11	-0.56	0.79	-32.053	0.005	-0.16	-1.77	1.48
		3	127.042	0.004	0.54	-0.16	1.23	247.442	0.005	1.24	-0.03	2.54
	S	0	1.273	0.499	0.64	-0.47	1.76	3.905	0.434	1.71	0.21	3.23
		1	-4.450	0.499	-2.20	-4.38	0.03	1.358	0.434	0.59	-1.73	2.97
		2	-0.647	0.499	-0.32	-1.41	0.78	-0.312	0.434	-0.14	-1.62	1.37
		3	-0.547	0.499	-0.27	-1.46	0.93	3.216	0.434	1.41	-0.09	2.92
	Si	0	-3.841	0.151	-0.58	-1.56	0.42	6.767	0.132	0.90	-0.66	2.47
		1	-2.462	0.151	-0.37	-1.41	0.68	10.709	0.132	1.42	-0.29	3.16
		2	2.661	0.151	0.40	-0.69	1.51	4.898	0.132	0.65	-1.11	2.43
		3	-0.380	0.151	-0.06	-0.98	0.87	14.241	0.132	1.90	0.40	3.42
	Ti	0	-1.660	0.008	-0.01	-0.95	0.93	138.575	0.008	1.11	-0.83	3.10
		1	78.160	0.008	0.60	-0.31	1.51	307.760	0.008	2.49	-0.66	5.75
		2	95.131	0.008	0.73	-0.16	1.62	139.509	0.008	1.12	-2.11	4.46
		3	57.505	0.008	0.44	-0.49	1.38	334.574	0.008	2.71	0.66	4.81
	V	0	133.880	0.003	0.34	-1.57	2.29	776.425	0.002	1.56	-0.71	3.89
		1	142.695	0.003	0.36	-0.57	1.31	1016.200	0.002	2.05	0.34	3.80
		2	-325.699	0.003	-0.83	-1.73	0.09	-406.703	0.002	-0.81	-3.39	1.83
		3	-227.870	0.003	-0.58	-1.69	0.55	632.354	0.002	1.27	-1.04	3.64
	Zn	0	21.520	0.011	0.23	-0.44	0.90	38.990	0.014	0.55	-0.60	1.71
		1	45.503	0.011	0.48	0.03	0.93	82.019	0.014	1.15	-0.86	3.21
		2	32.460	0.011	0.34	-0.13	0.82	10.783	0.014	0.15	-0.86	1.17
		3	105.519	0.011	1.11	0.15	2.08	139.184	0.014	1.97	0.31	3.65
	PM2.5ext ^b	0	0.042	15.115	0.64	0.14	1.13	0.069	19.8	1.38	0.68	2.08
		1	0.058	15.115	0.88	0.14	1.63	0.092	19.8	1.84	1.11	2.57
		2	0.017	15.115	0.26	-0.38	0.90	0.064	19.8	1.28	0.56	2.00
		3	-0.009	15.115	-0.14	-0.63	0.36	0.060	19.8	1.20	0.49	1.90

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