

Table S2. CMAQ performance statistics for hourly PM₁₀, NO₂, and O₃ concentrations

Statistical measures		Pollutants		
		PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ (ppb)	O ₃ (ppb)
Mean (AQMS/CMAQ)	Jan	51.9/35.3	23.6/21.3	18.6/22.2
	Apr	54.3/21.3	29.9/23.9	33.4/35.9
	Jul	43.9/15.4	22.0/22.5	29.8/31.6
	Oct	39.1/21.3	21.2/21.1	24.2/28.1
r	Jan	0.65	0.68	0.67
	Apr	0.43	0.66	0.65
	Jul	0.48	0.47	0.6
	Oct	0.52	0.64	0.62
MB	Jan	-17.7	-1.5	1.4
	Apr	-39.4	-3.6	0.1
	Jul	-28.2	3.2	2.4
	Oct	-18.5	-5.5	2.1
NMB (%)	Jan	-30.7	-6.6	7.7
	Apr	-66.4	-13.6	0.9
	Jul	-65.9	14.8	9.2
	Oct	-46.5	-21.3	8.6
NME (%)	Jan	40.7	27.1	41.1
	Apr	68.4	35.1	38.8
	Jul	73.7	43.5	46.2
	Oct	54.3	33.2	45.3
RMSE	Jan	30.5	9.5	10.5
	Apr	49.3	14.7	17.7
	Jul	36.9	16.1	16.5
	Oct	25.3	13.6	14.3
IOA	Jan	0.68	0.80	0.81
	Apr	0.50	0.79	0.80
	Jul	0.58	0.72	0.79
	Oct	0.65	0.76	0.74

CMAQ, Community Multiscale Air Quality; AQMS, air quality monitoring sites; ppb, parts per billion; PM₁₀, aerodynamic diameter <10 μm ; NO₂, nitrogen dioxide O₃, ozone; r: Pearson's correlation coefficient; MB: mean bias; NMB: mean normalized bias; NME: mean normalized error; RMSE: root mean square error; IOA: index of agreement.