

NOTE: The information in these tables were not formatted or copy edited by the *Journal of Environmental Health*. They serve as extra resources for the reader should they want the information. Online Supplementary Tables

Table: Demographic Comparison Between Study Cities

	Chicago		Houston		Philadelphia		Seattle	
	Estimate	%	Estimate	%	Estimate	%	Estimate	%
Gender								
Male	1,313,565	48.5	1,069,676	50.1	725,293	47.2	310,551	49.7
Female	1,392,536	51.5	1,065,031	49.9	811,411	52.8	314,130	50.3
Race								
White	1,294,544	47.8	1,236,091	57.9	637,842	41.5	440,866	70.6
Black	873,393	32.3	501,087	23.5	665,332	43.3	46,310	7.4
American or Alaska Native	7,180	0.3	9,216	0.4	4,433	0.3	4,474	0.7
Asian	154,506	5.7	133,326	6.2	99,962	6.5	87,953	14.1
Hawaiian or Pacific Islander	702	0.0	926	0.0	1,359	0.1	2,567	0.4
Other race	320,125	11.8	216,418	10.1	88,827	5.8	9,791	1.6
Two or more races	55,651	2.1	37,643	1.8	38,949	2.5	32,720	5.2
Ethnicity								
Hispanic or Latino	775,748	28.7	931,154	43.6	194,714	12.7	40,110	6.4
Not Hispanic/Latino	1,930,353	71.3	1,203,553	56.4	1,341,990	87.3	584,571	93.6
Status of employment								
Employed	1,236,807	57.3	1,016,880	61.7	619,094	50.3	361,705	67.3
Unemployed	194,493	9.0	104,520	6.3	110,019	8.9	27,019	5.0
Not in labor force	727,772	33.7	525,235	31.9	501,994	40.8	147,039	27.4
Mode of commuting to work								
Car, truck, or van (alone)	608,545	50.3	756,102	75.7	305,048	50.5	183,163	51.5
Car, truck, or van (carpool)	112,080	9.3	123,058	12.3	53,098	8.8	31,320	8.8
Public transportation (excluding taxicab)	323,465	26.7	42,970	4.3	157,891	26.1	68,318	19.2
Walked	79,576	6.6	21,446	2.1	51,677	8.5	32,117	9.0
Worked at home	52,227	4.3	32,796	3.3	18,163	3.0	23,240	6.5
Other means	33,906	2.8	22,981	2.3	18,697	3.1	17,296	4.9
Educational attainment								
<9th grade	170,532	9.5	191,247	14.0	60,950	6.1	14,795	3.2
9th–12th grade (no diploma)	168,617	9.4	144,005	10.6	126,696	12.7	16,483	3.6

High school graduate (includes equivalency)	415,747	23.2	306,355	22.5	344,142	34.5	53,684	11.7
Some college (no degree)	327,914	18.3	260,140	19.1	176,149	17.7	79,079	17.3
Associate's degree	98,633	5.5	62,595	4.6	51,014	5.1	30,831	6.7
Bachelor's degree	366,725	20.4	246,894	18.1	137,480	13.8	156,446	34.2
Graduate or professional degree	247,244	13.8	151,094	11.1	100,384	10.1	105,911	23.2

Environmental Comparison Between Study Cities

	Chicago				Houston				Philadelphia				Seattle			
	F	Sp	Su	W	F	Sp	Su	W	F	Sp	Su	W	F	Sp	Su	W
Maximum temperature (°C)	12	19	28	2	24	30	35	19	14	21	29	6	12	16	24	9
Temperature (°C)	8	14	23	-1	19	24	30	14	10	16	24	2	9	12	19	6
Apparent temperature (°C)	3	11	23	-7	18	25	34	11	7	14	25	-3	7	10	18	3
Humidex	6	14	28	-4	22	30	40	15	10	17	30	-1	9	12	21	5
Dew point (°C)	2	6	15	-6	13	17	22	8	4	8	17	-5	7	8	13	4
Visibility (Km)	14	15	15	13	15	15	16	14	14	15	15	14	14	16	16	14
Wind speed (m/s)	4	4	3	4	3	3	2	4	3	3	2	4	2	2	2	2
Precipitation (mm)	2	4	3	2	3	2	3	3	3	3	3	3	4	2	1	3
CO (ppm)	0.50	0.49	0.42	0.52	0.50	0.32	0.31	0.44	0.50	0.33	0.32	0.47	0.50	0.32	0.29	0.52
NO ₂ (ppb)	33.0	35.3	33.4	39.4	29.0	20.8	18.4	29.3	33.0	29.7	26.0	37.2	-	-	-	-
O ₃ (ppb)	20	40	50	20	30	40	40	30	20	40	50	30	20	30	30	20
PM _{2.5} (µg/m ³)	12.0	11.1	12.8	13.4	10.0	12.1	12.9	10.8	10.0	9.3	11.9	11.7	8.8	6.0	7.9	7.7
PM ₁₀ (µg/m ³)	22.0	24.9	29.3	23.6	27.0	33.1	37.1	27.8	21.0	27.3	26.4	25.1	-	-	-	-
SO ₂ (ppb)	4.2	4.0	4.5	5.1	3.6	2.5	2.6	4.5	4.0	3.8	3.8	6.3	2.5	3.3	5.9	2.9

F = fall; Sp = spring; Su = summer; W = winter.

Initial Weather Variables Available for Dataset

Variable	Unit
Temperature	Fahrenheit
Dew point	Fahrenheit
Humidity	Percent
Cloud cover	Yes/no
Visibility	Miles
Wind speed	Miles per hour
Precipitation	Inches
Wind direction	Degrees

Crime in Chicago Considering Daily Air Pollution Concentrations and Environmental Parameters (*IQR* = interquartile range in daily air pollution concentrations)

		Assault			Burglary		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.03	(0.99, 1.07)	0.1774	0.83	(0.79, 0.89)	<.0001
Observances		1.03	(0.97, 1.09)	0.3125	1.10	(1.01, 1.19)	0.0234
Average of Daily 8-Hour Max CO (ppm)	3.0	1.45	(1.28, 1.64)	<.0001	2.00	(1.69, 2.37)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.02	(1.00, 1.04)	0.0918	1.00	(0.97, 1.02)	0.884
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	1.04	(1.03, 1.06)	<.0001	1.01	(0.99, 1.03)	0.2024
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.00	(1.00, 1.01)	0.324	1.03	(1.02, 1.04)	<.0001
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	1.01	(0.99, 1.02)	0.3169	0.98	(0.96, 1.00)	0.0357
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	0.96	(0.95, 0.98)	<.0001	0.94	(0.93, 0.96)	<.0001
Apparent Temperature (°C)	22.6	3.39	(2.23, 5.13)	<.0001	1.99	(1.12, 3.53)	0.0195
Humidex	24.1	0.38	(0.26, 0.57)	<.0001	0.56	(0.33, 0.98)	0.0421
Mean Visibility (Km)	3.2	1.03	(1.02, 1.04)	<.0001	0.99	(0.97, 1.00)	0.1286
Mean Wind Speed (m/s)	2.2	1.10	(1.07, 1.14)	<.0001	1.06	(1.01, 1.11)	0.0108
Precipitation (mm)	1.3	1.00	(1.00, 1.00)	0.4664	1.00	(1.00, 1.00)	0.6645
Cloud Cover (%)	4.0	1.00	(0.99, 1.02)	0.8728	1.02	(1.00, 1.04)	0.0691
		Homicide			Motor Vehicle Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.31	(1.00, 1.72)	0.0483	0.91	(0.85, 0.97)	0.0076
Observances		1.27	(0.89, 1.80)	0.1826	0.96	(0.87, 1.06)	0.4362
Average of Daily 8-Hour Max CO (ppm)	3.0	1.03	(0.41, 2.57)	0.9577	1.69	(1.37, 2.09)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.03	(0.90, 1.17)	0.6839	1.03	(1.00, 1.06)	0.0891
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	0.99	(0.91, 1.09)	0.9053	1.02	(1.00, 1.04)	0.0508
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.03	(0.97, 1.10)	0.3638	1.05	(1.03, 1.07)	<.0001
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	0.98	(0.89, 1.08)	0.6878	0.96	(0.94, 0.99)	0.0016
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	1.07	(0.99, 1.17)	0.1009	0.97	(0.95, 0.99)	0.0014
Apparent Temperature (°C)	22.6	1.25	(0.06, 25.04)	0.882	0.28	(0.14, 0.57)	0.0004
Humidex	24.1	1.16	(0.07, 19.97)	0.9191	3.35	(1.69, 6.67)	0.0005
Mean Visibility (Km)	3.2	1.03	(0.95, 1.13)	0.4562	1.00	(0.98, 1.02)	0.8202
Mean Wind Speed (m/s)	2.2	0.98	(0.78, 1.24)	0.8983	0.94	(0.89, 0.99)	0.0228
Precipitation (mm)	1.3	1.00	(0.99, 1.01)	0.9307	1.00	(1.00, 1.00)	0.2226
Cloud Cover (%)	4.0	1.01	(0.90, 1.13)	0.9105	1.00	(0.98, 1.03)	0.7981

		Robbery			Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.93	(0.87, 0.99)	0.0296	0.91	(0.87, 0.94)	<.0001
Observances		1.05	(0.96, 1.15)	0.2585	0.93	(0.88, 0.99)	0.0189
Average of Daily 8-Hour Max CO (ppm)	3.0	1.64	(1.34, 1.99)	<.0001	1.08	(0.96, 1.22)	0.1972
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	0.96	(0.93, 0.99)	0.0101	0.98	(0.97, 1.00)	0.056
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	1.00	(0.98, 1.02)	0.9609	1.01	(1.00, 1.02)	0.3765
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.02	(1.00, 1.03)	0.0259	1.01	(1.00, 1.02)	0.0579
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	1.01	(0.98, 1.03)	0.5219	0.99	(0.98, 1.01)	0.3694
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	0.98	(0.96, 1.00)	0.027	0.98	(0.97, 1.00)	0.0035
Apparent Temperature (°C)	22.6	2.33	(1.18, 4.56)	0.0141	1.50	(1.01, 2.23)	0.0448
Humidex	24.1	0.50	(0.26, 0.95)	0.0337	0.75	(0.52, 1.10)	0.1412
Mean Visibility (Km)	3.2	1.00	(0.98, 1.01)	0.6921	1.01	(1.00, 1.03)	0.0119
Mean Wind Speed (m/s)	2.2	1.05	(1.00, 1.11)	0.0505	1.02	(0.99, 1.05)	0.1939
Precipitation (mm)	1.3	1.00	(1.00, 1.00)	0.7215	1.00	(1.00, 1.00)	0.0878
Cloud Cover (%)	4.0	1.03	(1.00, 1.05)	0.0448	1.00	(0.99, 1.02)	0.5991
		Arson & Burning			Damage		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.89	(0.67, 1.19)	0.4424	1.04	(0.98, 1.10)	0.2074
Observances		0.65	(0.41, 1.01)	0.0576	1.07	(0.99, 1.15)	0.0787
Average of Daily 8-Hour Max CO (ppm)	3.0	1.61	(0.69, 3.74)	0.2663	1.97	(1.65, 2.34)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.09	(0.97, 1.24)	0.1557	0.99	(0.97, 1.02)	0.6304
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	1.08	(0.99, 1.18)	0.066	1.04	(1.02, 1.06)	<.0001
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.03	(0.97, 1.10)	0.2728	1.00	(0.98, 1.01)	0.5628
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	0.98	(0.89, 1.07)	0.6273	1.00	(0.98, 1.02)	0.7182
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	0.90	(0.83, 0.98)	0.0196	0.93	(0.92, 0.95)	<.0001
Apparent Temperature (°C)	22.6	14.56	(0.88, 241.28)	0.0612	9.59	(5.30, 17.37)	<.0001
Humidex	24.1	0.08	(0.01, 1.18)	0.0664	0.13	(0.08, 0.24)	<.0001
Mean Visibility (Km)	3.2	1.07	(0.98, 1.15)	0.1138	1.03	(1.02, 1.05)	<.0001
Mean Wind Speed (m/s)	2.2	1.17	(0.94, 1.46)	0.157	1.19	(1.14, 1.25)	<.0001
Precipitation (mm)	1.3	1.00	(0.99, 1.01)	0.6986	1.00	(1.00, 1.00)	0.2725
Cloud Cover (%)	4.0	1.02	(0.91, 1.13)	0.7716	1.02	(1.00, 1.04)	0.07

		Interference with Public Officer			Rape & Sex Crimes		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.93	(0.75, 1.15)	0.5234	1.72	(1.48, 4.41)	<.0001
Observances		0.90	(0.66, 1.23)	0.5077	0.91	(0.71, 2.03)	0.4738
Average of Daily 8-Hour Max CO (ppm)	3.0	0.36	(0.18, 0.72)	0.0038	1.10	(0.62, 1.94)	0.7399
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.00	(0.91, 1.10)	0.9921	1.01	(0.93, 1.10)	0.7908
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	0.99	(0.93, 1.06)	0.8319	1.00	(0.95, 1.06)	0.9826
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.06	(1.01, 1.11)	0.0115	1.00	(0.97, 1.05)	0.8218
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	0.94	(0.87, 1.01)	0.0875	0.97	(0.91, 1.03)	0.3594
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	1.07	(1.01, 1.14)	0.0232	1.00	(0.94, 1.05)	0.851
Apparent Temperature (°C)	22.6	2.13	(0.25, 18.21)	0.4918	0.55	(0.09, 3.47)	0.5278
Humidex	24.1	0.68	(0.09, 5.24)	0.7071	2.18	(0.38, 12.57)	0.3836
Mean Visibility (Km)	3.2	0.99	(0.93, 1.06)	0.8568	1.09	(1.03, 1.14)	0.0018
Mean Wind Speed (m/s)	2.2	1.00	(0.85, 1.18)	0.9987	0.94	(0.82, 1.09)	0.4341
Precipitation (mm)	1.3	0.99	(0.98, 1.00)	0.0588	1.00	(0.99, 1.00)	0.235
Cloud Cover (%)	4.0	0.91	(0.84, 0.98)	0.0169	1.09	(1.02, 1.17)	0.0115
		Trespass					
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value			
Federal Holiday		0.77	(0.71, 0.83)	<.0001			
Observances		0.78	(0.70, 0.88)	<.0001			
Average of Daily 8-Hour Max CO (ppm)	3.0	1.64	(1.30, 2.06)	<.0001			
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	0.99	(0.96, 1.03)	0.8499			
Average of Daily Mean PM _{2.5} (ug/m ³)	7.2	1.02	(0.99, 1.04)	0.1659			
Average of Daily 1-Hour Max SO ₂ (ppb)	4.0	1.00	(0.98, 1.01)	0.8139			
Average of Daily 1-Hour Max NO ₂ (ppb)	15.6	1.04	(1.02, 1.07)	0.001			
Average of Daily Mean PM ₁₀ (ug/m ³)	16.5	0.95	(0.93, 0.97)	<.0001			
Apparent Temperature (°C)	22.6	1.26	(0.59, 2.73)	0.5501			
Humidex	24.1	0.85	(0.41, 1.79)	0.6753			
Mean Visibility (Km)	3.2	1.02	(1.00, 1.04)	0.0541			
Mean Wind Speed (m/s)	2.2	1.06	(1.00, 1.12)	0.0666			
Precipitation (mm)	1.3	1.00	(1.00, 1.00)	0.5881			
Cloud Cover (%)	4.0	1.00	(0.99, 1.05)	0.2404			

Crime in Houston Considering Daily Air Pollution Concentrations and Environmental Parameters (*IQR* = interquartile range in daily air pollution concentrations)

	<i>IQR</i>	Assault			Burglary		
		Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.96	(0.76, 1.21)	0.7219	0.77	(0.62, 0.98)	0.0306
Observances		1.12	(0.89, 1.42)	0.3214	1.11	(0.87, 1.42)	0.4096
Average of Daily 8-Hour Max CO (ppm)	3.0	0.88	(0.39, 2.02)	0.7703	0.65	(0.31, 1.38)	0.2659
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.01	(0.95, 1.08)	0.7099	0.98	(0.92, 1.04)	0.4431
Average of Daily Mean PM _{2.5} (ug/m ³)	5.2	1.03	(0.97, 1.09)	0.3185	1.02	(0.96, 1.07)	0.5613
Average of Daily 1-Hour Max SO ₂ (ppb)	3.8	1.01	(0.96, 1.05)	0.7764	1.00	(0.96, 1.04)	0.953
Average of Daily 1-Hour Max NO ₂ (ppb)	18.4	1.01	(0.91, 1.13)	0.8308	1.07	(0.97, 1.18)	0.1838
Average of Daily Mean PM ₁₀ (ug/m ³)	17.0	0.98	(0.93, 1.04)	0.5172	0.97	(0.93, 1.02)	0.2213
Apparent Temperature (°C)	18.4	2.11	(0.21, 21.66)	0.5296	1.13	(0.13, 9.86)	0.9147
Humidex	21.1	0.59	(0.06, 5.84)	0.6506	0.99	(0.12, 8.38)	0.9905
Mean Visibility (Km)	1.6	0.99	(0.96, 1.03)	0.6341	0.99	(0.96, 1.02)	0.5493
Mean Wind Speed (m/s)	2.2	1.05	(0.88, 1.27)	0.5691	1.01	(0.85, 1.20)	0.9115
Precipitation (mm)	0.25	1.00	(1.00, 1.00)	0.2974	1.00	(1.00, 1.00)	0.7223
Cloud Cover (%)	4.0	1.01	(0.93, 1.10)	0.7743	1.00	(0.92, 1.08)	0.9264
		Homicide			Motor Vehicle Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.16	(0.53, 2.58)	0.7067	0.80	(0.64, 1.01)	0.0653
Observances		0.29	(0.06, 1.37)	0.1193	1.00	(0.78, 1.28)	0.9921
Average of Daily 8-Hour Max CO (ppm)	3.0	0.69	(0.03, 16.71)	0.821	1.04	(0.48, 2.24)	0.9226
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.17	(0.91, 1.49)	0.2188	0.99	(0.93, 1.06)	0.7935
Average of Daily Mean PM _{2.5} (ug/m ³)	5.2	1.08	(0.87, 1.34)	0.4786	1.01	(0.96, 1.07)	0.6613
Average of Daily 1-Hour Max SO ₂ (ppb)	3.8	1.04	(0.88, 1.23)	0.6311	0.94	(0.90, 0.98)	0.0071
Average of Daily 1-Hour Max NO ₂ (ppb)	18.4	1.17	(0.78, 1.76)	0.4562	1.01	(0.91, 1.11)	0.8902
Average of Daily Mean PM ₁₀ (ug/m ³)	17.0	0.92	(0.75, 1.14)	0.4582	0.98	(0.94, 1.03)	0.5503
Apparent Temperature (°C)	18.4	0.00008	(0.00, 0.57)	0.037	0.75	(0.08, 6.97)	0.8036
Humidex	21.1	13055	(0.07, 80627319)	0.0333	1.37	(0.15, 12.25)	0.7807
Mean Visibility (Km)	1.6	0.94	(0.84, 1.07)	0.3575	0.99	(0.96, 1.02)	0.6764
Mean Wind Speed (m/s)	2.2	0.57	(0.28, 1.15)	0.1149	0.95	(0.80, 1.14)	0.6061
Precipitation (mm)	0.25	1.00	(0.99, 1.00)	0.3573	1.00	(1.00, 1.00)	0.8197
Cloud Cover (%)	4.0	0.84	(0.61, 1.16)	0.282	1.03	(0.95, 1.12)	0.4926

		Robbery			Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.79	(0.61, 1.02)	0.0689	0.76	(0.62, 0.94)	0.0118
Observances		1.21	(0.95, 1.54)	0.1217	1.01	(0.81, 1.26)	0.918
Average of Daily 8-Hour Max CO (ppm)	3.0	1.19	(0.52, 2.74)	0.686	0.76	(0.39, 1.51)	0.4418
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.00	(0.93, 1.07)	0.9271	1.00	(0.94, 1.05)	0.8708
Average of Daily Mean PM _{2.5} (ug/m ³)	5.2	1.03	(0.97, 1.10)	0.2929	1.01	(0.96, 1.06)	0.672
Average of Daily 1-Hour Max SO ₂ (ppb)	3.8	0.96	(0.91, 1.01)	0.0821	0.97	(0.93, 1.01)	0.1113
Average of Daily 1-Hour Max NO ₂ (ppb)	18.4	0.95	(0.85, 1.06)	0.3717	1.02	(0.93, 1.11)	0.7141
Average of Daily Mean PM ₁₀ (ug/m ³)	17.0	0.96	(0.90, 1.01)	0.114	0.98	(0.94, 1.03)	0.4443
Apparent Temperature (°C)	18.4	0.25	(0.02, 2.97)	0.2753	0.49	(0.07, 3.53)	0.4799
Humidex	21.1	3.94	(0.35, 44.42)	0.2676	2.07	(0.30, 14.53)	0.4631
Mean Visibility (Km)	1.6	0.99	(0.96, 1.02)	0.5963	0.99	(0.97, 1.02)	0.5941
Mean Wind Speed (m/s)	2.2	0.86	(0.71, 1.05)	0.1413	0.93	(0.80, 1.09)	0.3552
Precipitation (mm)	0.25	1.00	(1.00, 1.00)	0.7631	1.00	(1.00, 1.00)	0.6522
Cloud Cover (%)	4.0	1.02	(0.93, 1.12)	0.6279	0.99	(0.92, 1.07)	0.8406
		Rape & Sex Crimes					
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value			
Federal Holiday		1.05	(0.64, 1.90)	0.8371			
Observances		0.70	(0.35, 1.42)	0.3022			
Average of Daily 8-Hour Max CO (ppm)	3.0	0.12	(0.02, 0.87)	0.0356			
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	0.94	(0.81, 1.09)	0.405			
Average of Daily Mean PM _{2.5} (ug/m ³)	5.2	1.13	(0.99, 1.28)	0.0603			
Average of Daily 1-Hour Max SO ₂ (ppb)	3.8	1.06	(0.96, 1.17)	0.2879			
Average of Daily 1-Hour Max NO ₂ (ppb)	18.4	1.06	(0.83, 1.36)	0.6314			
Average of Daily Mean PM ₁₀ (ug/m ³)	17.0	0.87	(0.76, 0.99)	0.0297			
Apparent Temperature (°C)	18.4	1.85	(0.01, 341.04)	0.8174			
Humidex	21.1	0.72	(0.00, 121.72)	0.8997			
Mean Visibility (Km)	1.6	1.00	(0.94, 1.08)	0.8999			
Mean Wind Speed (m/s)	2.2	0.95	(0.63, 1.44)	0.8269			
Precipitation (mm)	0.25	1.00	(1.00, 1.00)	0.0128			
Cloud Cover (%)	4.0	0.99	(0.82, 1.20)	0.9196			

Crime in Philadelphia Considering Daily Air Pollution Concentrations and Environmental Parameters (*IQR* = interquartile range in daily air pollution concentrations)

	<i>IQR</i>	Assault			Burglary		
		Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.22	(1.08, 1.38)	0.0015	0.88	(0.76, 1.01)	0.0692
Observances		1.11	(0.91, 1.35)	0.312	0.75	(0.59, 0.96)	0.023
Average of Daily 8-Hour Max CO (ppm)	0.10	1.00	(0.99, 1.02)	0.5226	0.99	(0.98, 1.01)	0.4661
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	1.04	(0.99, 1.09)	0.1458	0.99	(0.94, 1.04)	0.5767
Average of Daily Mean PM _{2.5} (ug/m ³)	6.9	1.00	(0.96, 1.04)	0.9679	1.03	(0.99, 1.08)	0.1483
Average of Daily 1-Hour Max SO ₂ (ppb)	3.4	1.02	(0.99, 1.04)	0.2104	1.02	(0.99, 1.04)	0.216
Average of Daily 1-Hour Max NO ₂ (ppb)	15.1	1.00	(0.96, 1.05)	0.9281	1.02	(0.97, 1.07)	0.465
Average of Daily Mean PM ₁₀ (ug/m ³)	14.0	0.97	(0.94, 1.00)	0.072	0.96	(0.93, 0.99)	0.0205
Apparent Temperature (°C)	21.5	9.16	(2.77, 30.29)	0.0003	3.65	(1.03, 12.92)	0.0449
Humidex	23.3	0.15	(0.05, 0.45)	0.0009	0.32	(0.10, 1.08)	0.0658
Mean Visibility (Km)	3.2	1.02	(0.99, 1.06)	0.1859	1.02	(0.99, 1.06)	0.2051
Mean Wind Speed (m/s)	2.2	1.15	(1.05, 1.26)	0.0039	1.09	(0.99, 1.20)	0.0818
Precipitation (mm)	1.02	1.00	(1.00, 1.00)	0.4186	1.00	(1.00, 1.00)	0.567
Cloud Cover (%)	5.0	1.06	(1.00, 1.12)	0.0555	1.04	(0.98, 1.10)	0.2214
		Homicide			Motor Vehicle Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.33	(0.80, 2.22)	0.2727	0.79	(0.57, 1.07)	0.129
Observances		1.46	(0.69, 3.11)	0.3272	0.98	(0.62, 1.55)	0.9327
Average of Daily 8-Hour Max CO (ppm)	0.10	0.98	(0.92, 1.04)	0.4564	0.96	(0.93, 0.99)	0.0141
Average of Daily 8-Hour Max O ₃ (ppm)	0.02	0.97	(0.79, 1.20)	0.8033	1.16	(1.04, 1.29)	0.006
Average of Daily Mean PM _{2.5} (ug/m ³)	6.9	0.92	(0.77, 1.11)	0.3982	1.08	(0.98, 1.18)	0.1368
Average of Daily 1-Hour Max SO ₂ (ppb)	3.4	1.04	(0.94, 1.15)	0.4685	1.08	(1.02, 1.13)	0.0054
Average of Daily 1-Hour Max NO ₂ (ppb)	15.1	1.20	(0.99, 1.45)	0.0718	1.22	(1.11, 1.35)	<.0001
Average of Daily Mean PM ₁₀ (ug/m ³)	14.0	1.04	(0.91, 1.18)	0.5943	0.86	(0.80, 0.92)	<.0001
Apparent Temperature (°C)	21.5	5.13	(0.03, 909)	0.536	0.67	(0.04, 10.27)	0.7724
Humidex	23.3	0.29	(0.00, 39.33)	0.6192	1.92	(0.14, 25.91)	0.6235
Mean Visibility (Km)	3.2	0.95	(0.83, 1.10)	0.4904	1.08	(1.00, 1.16)	0.0432
Mean Wind Speed (m/s)	2.2	1.12	(0.74, 1.68)	0.5909	1.05	(0.85, 1.30)	0.6558
Precipitation (mm)	1.02	0.99	(0.97, 1.00)	0.103	1.00	(0.99, 1.01)	0.8824
Cloud Cover (%)	5.0	0.93	(0.72, 1.19)	0.5548	1.05	(0.92, 1.19)	0.4643

		Robbery			Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.02	(0.90, 1.15)	0.7808	0.81	(0.75, 0.87)	<.0001
Observances		1.10	(0.91, 1.34)	0.3212	0.90	(0.80, 1.02)	0.101
Average of Daily 8-Hour Max CO (ppm)	<i>0.10</i>	1.00	(0.99, 1.02)	0.7521	1.00	(0.99, 1.01)	0.7623
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.02</i>	0.96	(0.91, 1.00)	0.0651	0.99	(0.96, 1.01)	0.34
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>6.9</i>	1.01	(0.97, 1.06)	0.5314	1.00	(0.98, 1.03)	0.8003
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.4</i>	1.03	(1.01, 1.06)	0.0115	1.01	(1.00, 1.03)	0.0814
Average of Daily 1-Hour Max NO ₂ (ppb)	<i>15.1</i>	0.97	(0.93, 1.01)	0.1654	1.00	(0.97, 1.02)	0.8525
Average of Daily Mean PM ₁₀ (ug/m ³)	<i>14.0</i>	0.96	(0.93, 0.99)	0.0098	0.96	(0.95, 0.98)	<.0001
Apparent Temperature (°C)	<i>21.5</i>	5.84	(1.84, 18.61)	0.0028	2.88	(1.47, 5.63)	0.0019
Humidex	<i>23.3</i>	0.20	(0.07, 0.59)	0.0037	0.43	(0.23, 0.82)	0.0099
Mean Visibility (Km)	<i>3.2</i>	1.03	(1.00, 1.06)	0.0483	1.00	(0.98, 1.02)	0.8262
Mean Wind Speed (m/s)	<i>2.2</i>	1.07	(0.98, 1.18)	0.1218	1.07	(1.01, 1.12)	0.0154
Precipitation (mm)	<i>1.02</i>	1.00	(1.00, 1.01)	0.0054	1.00	(1.00, 1.00)	0.1821
Cloud Cover (%)	<i>5.0</i>	1.06	(1.00, 1.12)	0.0462	0.98	(0.95, 1.01)	0.2104
		Rape & Sex Crimes					
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value			
Federal Holiday		1.10	(0.81, 2.24)	0.5586			
Observances		0.87	(0.50, 1.65)	0.6366			
Average of Daily 8-Hour Max CO (ppm)	<i>0.10</i>	0.98	(0.95, 1.02)	0.3838			
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.02</i>	0.99	(0.87, 1.11)	0.8357			
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>6.9</i>	0.96	(0.87, 1.07)	0.4949			
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.4</i>	0.89	(0.82, 0.96)	0.0029			
Average of Daily 1-Hour Max NO ₂ (ppb)	<i>15.1</i>	1.07	(0.95, 1.20)	0.266			
Average of Daily Mean PM ₁₀ (ug/m ³)	<i>14.0</i>	1.18	(1.09, 1.27)	<.0001			
Apparent Temperature (°C)	<i>21.5</i>	0.92	(0.04, 18.89)	0.9557			
Humidex	<i>23.3</i>	1.21	(0.07, 21.45)	0.8962			
Mean Visibility (Km)	<i>3.2</i>	1.05	(0.96, 1.14)	0.2794			
Mean Wind Speed (m/s)	<i>2.2</i>	0.96	(0.76, 1.22)	0.7677			
Precipitation (mm)	<i>1.02</i>	1.00	(0.99, 1.01)	0.7697			
Cloud Cover (%)	<i>5.0</i>	1.05	(0.91, 1.21)	0.5028			

Crime in Seattle Considering Daily Air Pollution Concentrations and Environmental Parameters
(IQR = interquartile range in daily air pollution concentrations)

	Assault				Burglary		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.06	(0.85, 1.32)	0.6242	0.90	(0.73, 1.04)	0.2823
Observances		1.14	(0.86, 1.50)	0.3565	1.05	(0.80, 1.38)	0.7221
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.48	(0.44, 0.51)	<.0001	0.53	(0.50, 0.57)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.94	(0.86, 1.02)	0.1295	0.88	(0.82, 0.94)	0.0004
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.31	(1.23, 1.40)	<.0001	1.29	(1.21, 1.36)	<.0001
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	0.99	(0.95, 1.02)	0.4602	0.95	(0.92, 0.98)	0.0028
Apparent Temperature (°C)	<i>11.5</i>	0.31	(0.02, 3.84)	0.3603	0.66	(0.07, 6.59)	0.7198
Humidex	<i>12.3</i>	2.79	(0.25, 31.26)	0.4044	1.28	(0.14, 11.70)	0.8252
Mean Visibility (Km)	<i>1.6</i>	1.03	(0.98, 1.08)	0.2106	1.00	(0.96, 1.06)	0.9168
Mean Wind Speed (m/s)	<i>1.8</i>	0.80	(0.59, 1.07)	0.1252	0.90	(0.69, 1.17)	0.4378
Precipitation (mm)	<i>2.3</i>	1.00	(0.98, 1.02)	0.7792	1.00	(0.99, 1.02)	0.6006
Cloud Cover (%)	<i>4.0</i>	0.98	(0.90, 1.07)	0.6804	1.00	(0.92, 1.08)	0.9878
	Homicide				Motor Vehicle Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.26	(0.25, 4.71)	0.7576	0.88	(0.70, 1.11)	0.2873
Observances		0.00	(0.00, 0.00)	0.9997	1.08	(0.80, 1.44)	0.6238
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.76	(0.50, 1.15)	0.1916	0.70	(0.66, 0.74)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.98	(0.52, 1.84)	0.9441	0.91	(0.84, 0.99)	0.0228
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.13	(0.71, 1.80)	0.6084	1.20	(1.13, 1.28)	<.0001
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	0.95	(0.72, 1.24)	0.6842	0.94	(0.91, 0.98)	0.0021
Apparent Temperature (°C)	<i>11.5</i>	975957.58	(0.04, 352933950044857)	0.1554	1.00	(0.08, 13.09)	0.9997
Humidex	<i>12.3</i>	0.00	(0.00, 210.45)	0.1662	0.93	(0.08, 10.90)	0.9534
Mean Visibility (Km)	<i>1.6</i>	0.83	(0.62, 1.11)	0.219	1.01	(0.96, 1.05)	0.7627
Mean Wind Speed (m/s)	<i>1.8</i>	3.62	(0.40, 32.90)	0.2534	0.94	(0.70, 1.27)	0.6968
Precipitation (mm)	<i>2.3</i>	0.94	(0.77, 1.14)	0.5052	1.00	(0.98, 1.02)	0.7213
Cloud Cover (%)	<i>4.0</i>	1.76	(0.86, 3.61)	0.1212	1.06	(0.96, 1.15)	0.2396

		Robbery			Theft		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.99	(0.76, 1.24)	0.9512	0.92	(0.77, 1.10)	0.3795
Observances		1.15	(0.87, 1.53)	0.3224	1.03	(0.81, 1.30)	0.8318
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.60	(0.57, 0.64)	<.0001	0.51	(0.48, 0.54)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.89	(0.82, 0.96)	0.0044	0.92	(0.86, 0.98)	0.0088
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.26	(1.19, 1.35)	<.0001	1.33	(1.26, 1.39)	<.0001
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	0.99	(0.96, 1.02)	0.5109	0.96	(0.93, 0.99)	0.0032
Apparent Temperature (°C)	<i>11.5</i>	1.31	(0.10, 16.60)	0.8346	0.34	(0.05, 2.48)	0.2873
Humidex	<i>12.3</i>	0.69	(0.06, 7.81)	0.7626	2.44	(0.36, 16.40)	0.3578
Mean Visibility (Km)	<i>1.6</i>	1.04	(0.99, 1.09)	0.1198	1.02	(0.98, 1.06)	0.3456
Mean Wind Speed (m/s)	<i>1.8</i>	0.98	(0.73, 1.32)	0.9165	0.79	(0.63, 0.99)	0.0438
Precipitation (mm)	<i>2.3</i>	1.00	(0.98, 1.02)	0.8816	0.99	(0.97, 1.01)	0.2159
Cloud Cover (%)	<i>4.0</i>	1.03	(0.95, 1.13)	0.4534	1.03	(0.96, 1.10)	0.3915
		Trespass			Arson & Burning		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.10	(0.83, 1.45)	0.5082	1.88	(0.69, 5.08)	0.2146
Observances		1.20	(0.83, 1.75)	0.3374	0.73	(0.11, 4.78)	0.7454
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.49	(0.44, 0.54)	<.0001	0.27	(0.15, 0.48)	<.0001
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.14	(0.74, 0.91)	0.0002	0.81	(0.52, 1.28)	0.3774
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.33	(1.23, 1.45)	<.0001	1.45	(1.04, 2.04)	0.0299
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	1.00	(0.92, 1.01)	0.145	0.95	(0.79, 1.15)	0.6282
Apparent Temperature (°C)	<i>11.5</i>	25.79	(0.97, 682.15)	0.0518	0.01	(0.00, 4705.68)	0.4749
Humidex	<i>12.3</i>	0.04	(0.00, 0.95)	0.0464	75.75	(0.00, 25897193.97)	0.5057
Mean Visibility (Km)	<i>1.6</i>	1.03	(0.96, 1.08)	0.4198	1.02	(0.77, 1.34)	0.8902
Mean Wind Speed (m/s)	<i>1.8</i>	1.39	(0.95, 2.03)	0.0873	0.35	(0.07, 1.66)	0.1864
Precipitation (mm)	<i>2.3</i>	1.00	(0.98, 1.04)	0.5179	0.88	(0.73, 1.08)	0.221
Cloud Cover (%)	<i>4.0</i>	1.03	(1.04, 1.31)	0.0106	0.86	(0.54, 1.36)	0.5154

		Damage			Disorderly Conduct		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		1.19	(0.98, 1.44)	0.0833	1.99	(0.88, 2.42)	0.0972
Observances		1.07	(0.84, 1.41)	0.61	2.35	(0.84, 2.31)	0.1052
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.50	(0.46, 0.53)	<.0001	0.49	(0.33, 0.72)	0.0003
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.90	(0.83, 0.97)	0.0068	0.88	(0.58, 1.35)	0.5638
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.29	(1.22, 1.37)	<.0001	1.95	(1.45, 2.61)	<.0001
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	0.96	(0.92, 0.99)	0.0096	1.00	(0.81, 1.24)	0.993
Apparent Temperature (°C)	<i>11.5</i>	1.16	(0.11, 12.27)	0.9027	0.01	(0.00, 69350.16)	0.5865
Humidex	<i>12.3</i>	0.77	(0.08, 7.32)	0.8168	37.37	(0.00, 105126337.17)	0.6328
Mean Visibility (Km)	<i>1.6</i>	1.03	(0.99, 1.08)	0.1766	1.15	(0.94, 1.42)	0.1808
Mean Wind Speed (m/s)	<i>1.8</i>	0.90	(0.68, 1.18)	0.4375	0.74	(0.13, 4.25)	0.7386
Precipitation (mm)	<i>2.3</i>	0.98	(0.96, 1.00)	0.1214	1.06	(0.97, 1.16)	0.2172
Cloud Cover (%)	<i>4.0</i>	1.05	(0.97, 1.14)	0.2242	1.04	(0.64, 1.69)	0.8632
		Harassment					
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value			
Federal Holiday		1.03	(0.78, 1.35)	0.8494			
Observances		1.17	(0.81, 1.68)	0.4029			
Average of Daily 8-Hour Max CO (ppm)	<i>0.20</i>	0.47	(0.43, 0.52)	<.0001			
Average of Daily 8-Hour Max O ₃ (ppm)	<i>0.01</i>	0.86	(0.77, 0.95)	0.0033			
Average of Daily Mean PM _{2.5} (ug/m ³)	<i>4.2</i>	1.23	(1.13, 1.33)	<.0001			
Average of Daily 1-Hour Max SO ₂ (ppb)	<i>3.5</i>	0.95	(0.91, 1.00)	0.0391			
Apparent Temperature (°C)	<i>11.5</i>	0.27	(0.01, 6.77)	0.4259			
Humidex	<i>12.3</i>	3.24	(0.15, 70.53)	0.4548			
Mean Visibility (Km)	<i>1.6</i>	1.04	(0.98, 1.10)	0.2418			
Mean Wind Speed (m/s)	<i>1.8</i>	0.79	(0.54, 1.14)	0.2044			
Precipitation (mm)	<i>2.3</i>	1.00	(0.98, 1.03)	0.8748			
Cloud Cover (%)	<i>4.0</i>	0.97	(0.87, 1.09)	0.6292			