

NOTE: The information in these tables were not IURP D W Copy Edited by the Journal of Environmental Health. They serve as a 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

American or  
Alaska Native

High school graduate (includes equivalent)	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					



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)

		<b>Assault</b>			<b>Burglary</b>		
	<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	<b>0.83</b>	<b>(0.79, 0.89)</b>	<b>&lt;.0001</b>
Observances		1.03	(0.97, 1.09)	0.3125	<b>1.10</b>	<b>(1.01, 1.19)</b>	<b>0.0234</b>
Average of Daily 8-Hour Max CO (ppm)	3.0	<b>1.45</b>	<b>(1.28, 1.64)</b>	<b>&lt;.0001</b>	<b>2.00</b>	<b>(1.69, 2.37)</b>	<b>&lt;.0001</b>
Average of Daily 8-Hour Max O <sub>3</sub> (ppm)	0.02	1.02	(1.00, 1.04)	0.0918	1.00	(0.97, 1.02)	0.884
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	7.2	<b>1.04</b>	<b>(1.03, 1.06)</b>	<b>&lt;.0001</b>	1.01	(0.99, 1.03)	0.2024
Average of Daily 1-Hour Max SO <sub>2</sub> (ppb)	4.0	1.00	(1.00, 1.01)	0.324	<b>1.03</b>	<b>(1.02, 1.04)</b>	<b>&lt;.0001</b>
Average of Daily 1-Hour Max NO <sub>2</sub> (ppb)	15.6	1.01	(0.99, 1.02)	0.3169	<b>0.98</b>	<b>(0.96, 1.00)</b>	<b>0.0357</b>
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	16.5	<b>0.96</b>	<b>(0.95, 0.98)</b>	<b>&lt;.0001</b>	<b>0.94</b>	<b>(0.93, 0.96)</b>	<b>&lt;.0001</b>
Apparent Temperature (°C)	22.6	<b>3.39</b>	<b>(2.23, 5.13)</b>	<b>&lt;.0001</b>	<b>1.99</b>	<b>(1.12, 3.53)</b>	<b>0.0195</b>
Humidex	24.1	<b>0.38</b>	<b>(0.26, 0.57)</b>	<b>&lt;.0001</b>	<b>0.56</b>	<b>(0.33, 0.98)</b>	<b>0.0421</b>
Mean Visibility (Km)	3.2	<b>1.03</b>	<b>(1.02, 1.04)</b>	<b>&lt;.0001</b>	0.99	(0.97, 1.00)	0.1286
Mean Wind Speed (m/s)	2.2	<b>1.10</b>	<b>(1.07, 1.14)</b>	<b>&lt;.0001</b>	<b>1.06</b>	<b>(1.01, 1.11)</b>	<b>0.0108</b>
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
		<b>Homicide</b>			<b>Motor Vehicle Theft</b>		
	<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	<b>0.91</b>	<b>(0.85, 0.97)</b>	<b>0.0076</b>
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	<b>1.69</b>	<b>(1.37, 2.09)</b>	<b>&lt;.0001</b>
Average of Daily 8-Hour Max O <sub>3</sub> (ppm)	0.02	1.03	(0.90, 1.17)	0.6839	1.03	(1.00, 1.06)	0.0891
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	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 <sub>2</sub> (ppb)	4.0	1.03	(0.97, 1.10)	0.3638	<b>1.05</b>	<b>(1.03, 1.07)</b>	<b>&lt;.0001</b>
Average of Daily 1-Hour Max NO <sub>2</sub> (ppb)	15.6	0.98	(0.89, 1.08)	0.6878	<b>0.96</b>	<b>(0.94, 0.99)</b>	<b>0.0016</b>
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	16.5	1.07	(0.99, 1.17)	0.1009	<b>0.97</b>	<b>(0.95, 0.99)</b>	<b>0.0014</b>
Apparent Temperature (°C)	22.6	1.25	(0.06, 25.04)	0.882	<b>0.28</b>	<b>(0.14, 0.57)</b>	<b>0.0004</b>
Humidex	24.1	1.16	(0.07, 19.97)	0.9191	<b>3.35</b>	<b>(1.69, 6.67)</b>	<b>0.0005</b>
Mean Visibility (Km)	3.2	1.03	(0.95, 1.13)	0.4562	1.00	(0.98, 1.02)	

		<b>Robbery</b>			<b>Theft</b>		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		<b>0.93</b>	<b>(0.87, 0.99)</b>	<b>0.0296</b>	<b>0.91</b>	<b>(0.87, 0.94)</b>	<b>&lt;.0001</b>
Observances		1.05	(0.96, 1.15)	0.2585	<b>0.93</b>	<b>(0.88, 0.99)</b>	<b>0.0189</b>
Average of Daily 8-Hour Max CO (ppm)	3.0	<b>1.64</b>	<b>(1.34, 1.99)</b>	<b>&lt;.0001</b>	1.08	(0.96, 1.22)	0.1972
Average of Daily 8-Hour Max O <sub>3</sub> (ppm)	0.02	<b>0.96</b>	<b>(0.93, 0.99)</b>	<b>0.0101</b>	0.98	(0.97, 1.00)	0.056
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	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 <sub>2</sub> (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 <sub>2</sub> (ppb)	15.6	1.01	(0.98, 1.03)	0.5219	0.99	(0.98, 1.01)	0.3694
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	16.5	0.98	(0.96, 1.00)	0.027	<b>0.98</b>	<b>(0.97, 1.00)</b>	<b>0.0035</b>
Apparent Temperature (°C)	22.6	<b>2.33</b>	<b>(1.18, 4.56)</b>	<b>0.0141</b>	<b>1.50</b>	<b>(1.01, 2.23)</b>	<b>0.0448</b>
Humidex	24.1	<b>0.50</b>	<b>(0.26, 0.95)</b>	<b>0.0337</b>	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
		<b>Arson &amp; Burning</b>			<b>Damage</b>		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value

		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	<b>1.72</b>	<b>(1.48, 4.41)</b>	<b>&lt;.0001</b>
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	<b>0.36</b>	<b>(0.18, 0.72)</b>	<b>0.0038</b>	1.10	(0.62, 1.94)	0.7399
Average of Daily 8-Hour Max O <sub>3</sub> (ppm)	0.02	1.00	(0.91, 1.10)	0.9921	1.01	(0.93, 1.10)	0.7908
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	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 <sub>2</sub> (ppb)	4.0	<b>1.06</b>	<b>(1.01, 1.11)</b>	<b>0.0115</b>	1.00	(0.97, 1.05)	0.8218
Average of Daily 1-Hour Max NO <sub>2</sub> (ppb)	15.6	0.94	(0.87, 1.01)	0.0875	0.97	(0.91, 1.03)	0.3594
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	16.5	<b>1.07</b>	<b>(1.01, 1.14)</b>	<b>0.0232</b>	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	<b>1.09</b>	<b>(1.03, 1.14)</b>	<b>0.0018</b>
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	<b>0.91</b>	<b>(0.84, 0.98)</b>	<b>0.0169</b>	<b>1.09</b>	<b>(1.02, 1.17)</b>	<b>0.0115</b>
		<b>Trespass</b>					
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value			
Federal Holiday		<b>0.77</b>	<b>(0.71, 0.83)</b>	<b>&lt;.0001</b>			
Observances		<b>0.78</b>	<b>(0.70, 0.88)</b>	<b>&lt;.0001</b>			

Average of Daily 8-Hour Max CO (ppm) 3.0 ~~0.36~~ 0.94 ~~0.18, 0.72~~ 0.0038 ~~0.48~~ 2.78 ~~0.0018~~

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

		<b>Assault</b>			<b>Burglary</b>		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value
Federal Holiday		0.96	(0.76, 1.21)	0.7219	<b>0.77</b>	<b>(0.62, 0.98)</b>	<b>0.0306</b>
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 <sub>3</sub> (ppm)	0.02	1.01	(0.95, 1.08)	0.7099	0.98	(0.92, 1.04)	0.4431
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	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 <sub>2</sub> (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 <sub>2</sub> (ppb)	18.4	1.01	(0.91, 1.13)	0.8308	1.07	(0.97, 1.18)	0.1838
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	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
		<b>Homicide</b>			<b>Motor Vehicle Theft</b>		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value

		<b>Robbery</b>			<b>Theft</b>		
	<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	<b>0.76</b>	<b>(0.62, 0.94)</b>	<b>0.0118</b>
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)	<i>3.0</i>	1.19	(0.52, 2.74)	0.686	0.76	(0.39, 1.51)	0.4418
Average of Daily 8-Hour Max O <sub>3</sub> (ppm)	<i>0.02</i>	1.00	(0.93, 1.07)	0.9271	1.00	(0.94, 1.05)	0.8708
Average of Daily Mean PM <sub>2.5</sub> (ug/m <sup>3</sup> )	<i>5.2</i>	1.03	(0.97, 1.10)	0.2929	1.01	(0.96, 1.06)	0.672
Average of Daily 1-Hour Max SO <sub>2</sub> (ppb)	<i>3.8</i>	0.96	(0.91, 1.01)	0.0821	0.97	(0.93, 1.01)	0.1113
Average of Daily 1-Hour Max NO <sub>2</sub> (ppb)	<i>18.4</i>	0.95	(0.85, 1.06)	0.3717	1.02	(0.93, 1.11)	0.7141
Average of Daily Mean PM <sub>10</sub> (ug/m <sup>3</sup> )	<i>17.0</i>	0.96	(0.90, 1.01)	0.114	0.98	(0.94, 1.03)	0.4443
Apparent Temperature (°C)	<i>18.4</i>	0.25	(0.02, 2.97)	0.2753	0.49	(0.07, 3.53)	0.4799
Humidex	<i>21.1</i>	3.94	(0.35, 44.42)	0.2676	2.07	(0.30, 14.53)	0.4631
Mean Visibility (Km)	<i>1.6</i>	0.99	(0.96, 1.02)	0.5963	0.99	(0.97, 1.02)	0.5941
Mean Wind Speed (m/s)	<i>2.2</i>	0.86	(0.71, 1.05)	0.1413	0.93	(0.80, 1.09)	0.3552

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

		<b>Robbery</b>	<b>Theft</b>
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Crime in Seattle Considering Daily Air Pollution

	<i>IQR</i>	Risk Ratio	<b>Robbery</b> Confidence Interval	<b>Theft</b>
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		<b>Damage</b>			<b>Disorderly Conduct</b>		
	<i>IQR</i>	Risk Ratio	Confidence Interval	P-Value	Risk Ratio	Confidence Interval	P-Value