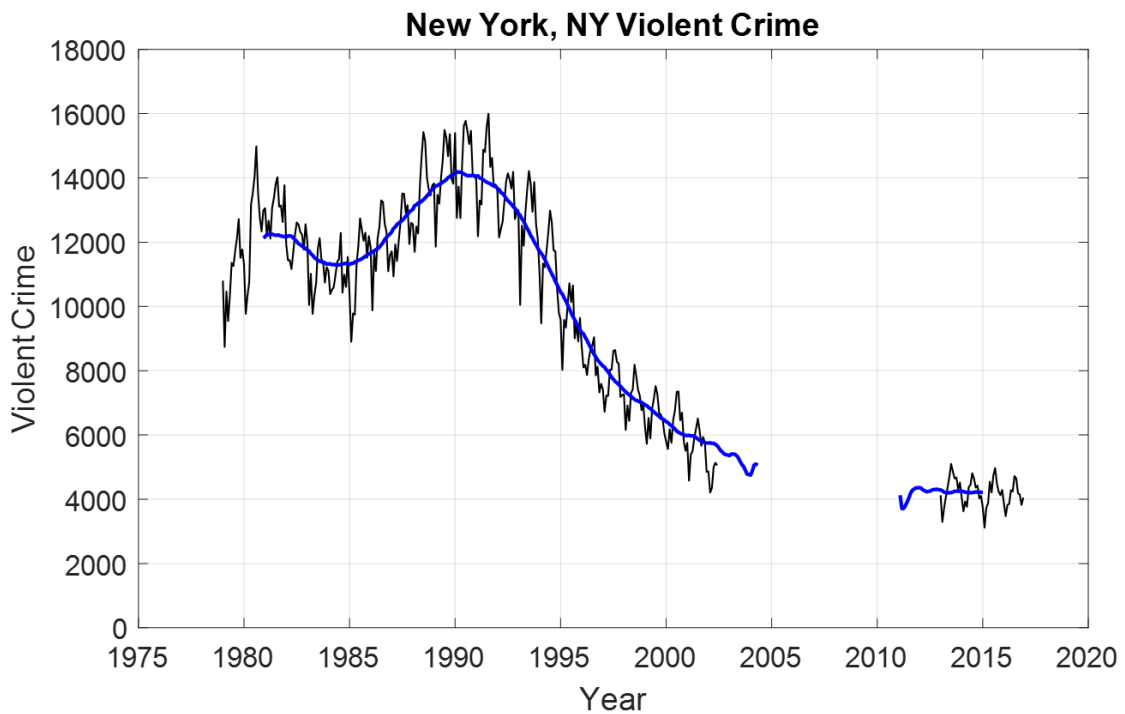
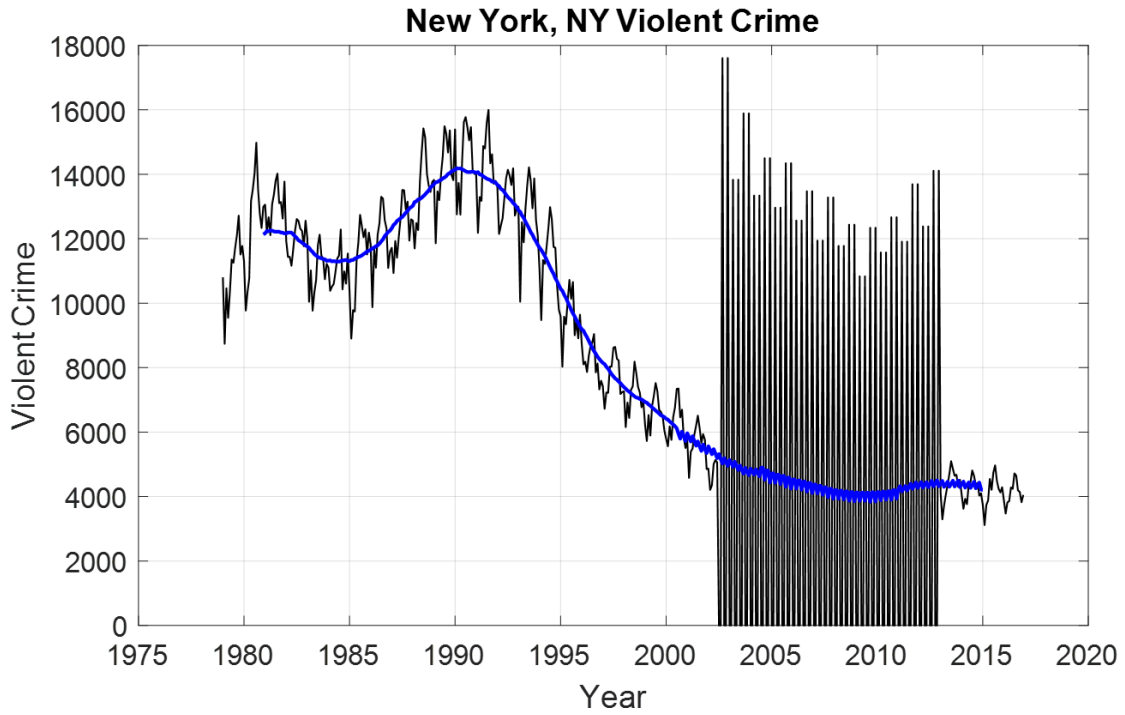


1 **Supplementary Materials**

2	Crime Type	Percent of Initial Dataset	Percent of FBI 1981-2014 estimate
3	Violent Crime	90.4	85.9
4	Homicide	89.4	85.2
5	Forcible Rape	88.4	82.0
6	Robbery	92.2	89.0
7	Aggravated Assault	89.5	84.6
8	Simple Assault	89.9	N/A
9	Property Crime	90.7	85.4
10	Larceny	91.5	84.7
11	Burglary	90.2	86.2
12	Motor Vehicle Theft	91.6	87.8

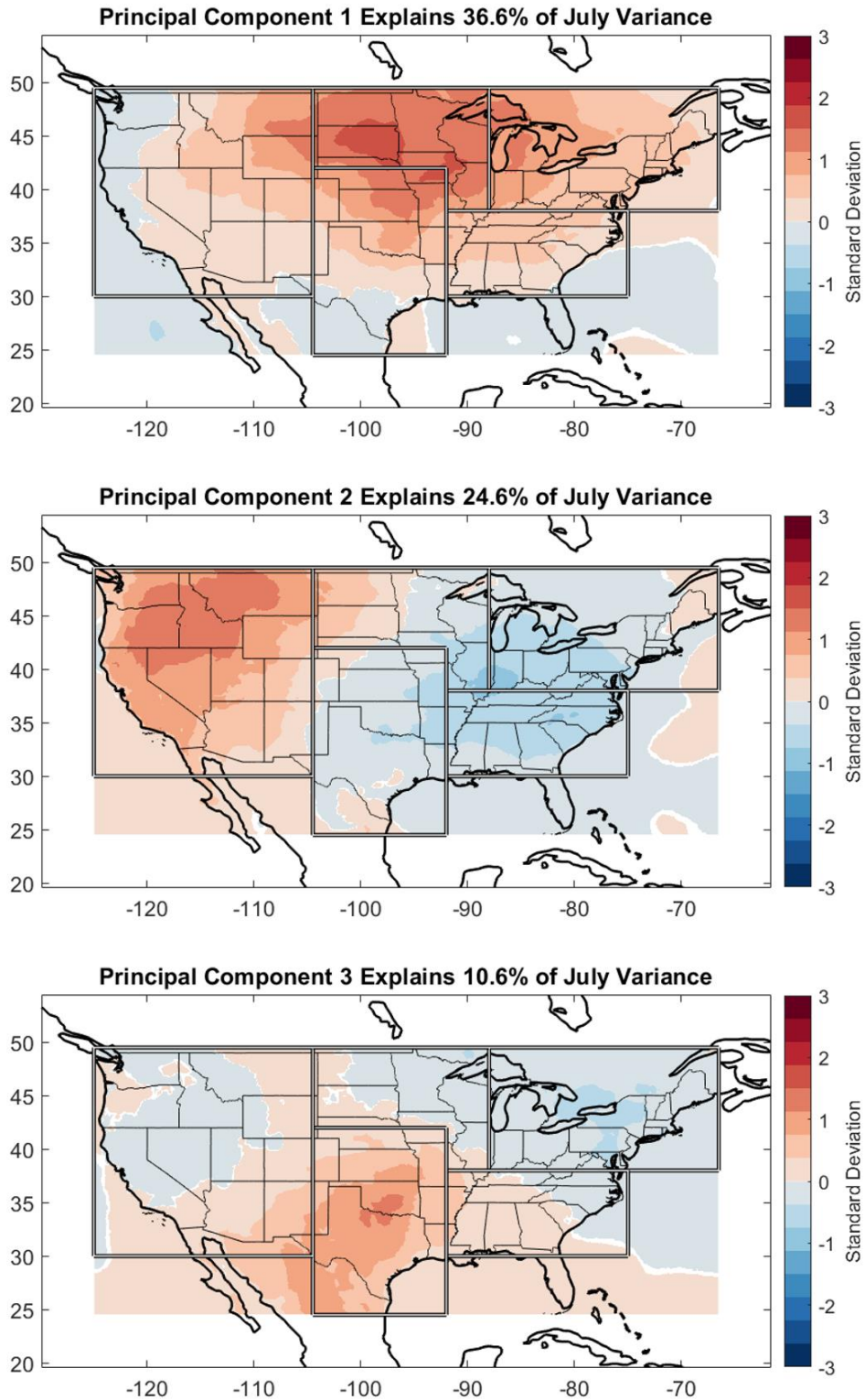
13
14 **Supplementary Table 1.** Percentage of initial UCR dataset which passed through quality control
15 processes and percentage of FBI 1981-2014 annually estimated totals which were used in
16 calculations of regional correlation coefficients, per crime type.
17



18

19 **Supplementary Figure 1.** Top: New York, NY violent crime (black) overlaid with a four-year
 20 running mean (blue). Bottom: Same as top but after quality control.

21



22

23 **Supplementary Figure 2.** First three principal components of an EOF analysis of July
 24 temperature. The variance explained by each principal component in descending order is 36.6%,
 25 24.6%, and 10.6% and the total variance explained by these three patterns combined is 71.6%.

26

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.61**	0.53**	0.44*	0.51**	0.15	0.15	0.20	0.29	0.52**	0.14	0.47**	0.41*
SE	0.55**	0.44*	0.71**	0.33	0.26	0.29	0.47**	0.09	0.52**	0.15	0.02	0.63**
SC	0.59**	0.40*	0.49**	0.38*	0.16	0.25	-0.01	-0.12	0.33	0.06	0.12	0.79**
WE	0.34	0.65**	0.56**	0.49**	0.48**	0.40*	0.12	0.22	0.30	0.33	0.69**	0.55**
MW	0.61**	0.55**	0.59**	0.35*	0.24	-0.02	0.24	0.03	0.46**	0.21	0.06	0.49**

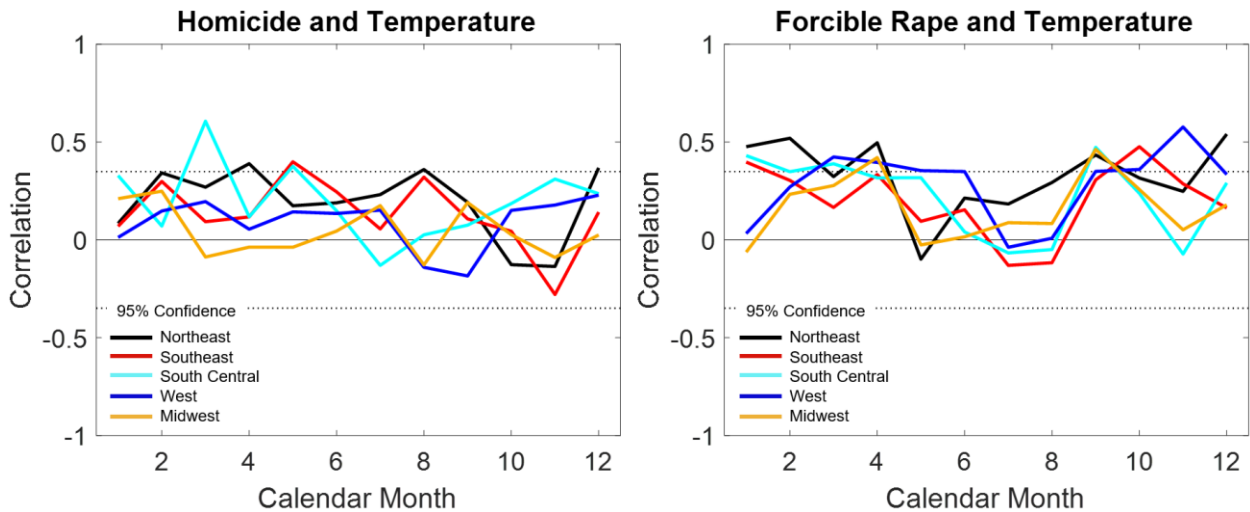
* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 2. Monthly correlations between violent crime and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Figure 6 (left). All significance tests are two-tailed Student's t-tests.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.83**	0.61**	0.45**	0.46**	0.18	0.14	0.10	0.31	0.17	0.21	0.60**	0.72**
SE	0.36*	0.37*	0.29	0.28	0.24	0.34	0.01	-0.11	0.14	0.02	0.12	0.52**
SC	0.53**	0.27	0.14	0.11	0.22	-0.09	-0.17	-0.02	0.13	-0.34	0.13	0.68**
WE	0.06	0.59**	0.14	0.14	-0.05	-0.16	-0.09	-0.08	0.12	-0.03	0.18	0.26
MW	0.85**	0.57**	0.54**	0.54**	0.18	-0.10	0.23	0.39*	0.21	0.28	0.70**	0.87**

* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 3. Monthly correlations between property crime and average temperature anomalies of all cities within each region. This information is identical to that shared in Figure 7 (left). All significance tests are two-tailed Student's t-tests.



Supplementary Figure 3. Left: monthly correlations between homicide and monthly temperature anomalies of all cities within each region. Right: same as left but for forcible rape.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.08	0.34	0.27	0.39*	0.17	0.19	0.23	0.36*	0.19	-0.13	-0.14	0.37*
SE	0.07	0.30	0.09	0.12	0.40*	0.25	0.06	0.32	0.11	0.04	-0.28	0.14
SC	0.33	0.07	0.61**	0.12	0.38*	0.15	-0.13	0.03	0.08	0.19	0.31	0.24
WE	0.01	0.15	0.20	0.05	0.14	0.13	0.15	-0.14	-0.18	0.15	0.18	0.23
MW	0.21	0.25	-0.09	-0.04	-0.04	0.04	0.18	-0.13	0.19	0.03	-0.09	0.03

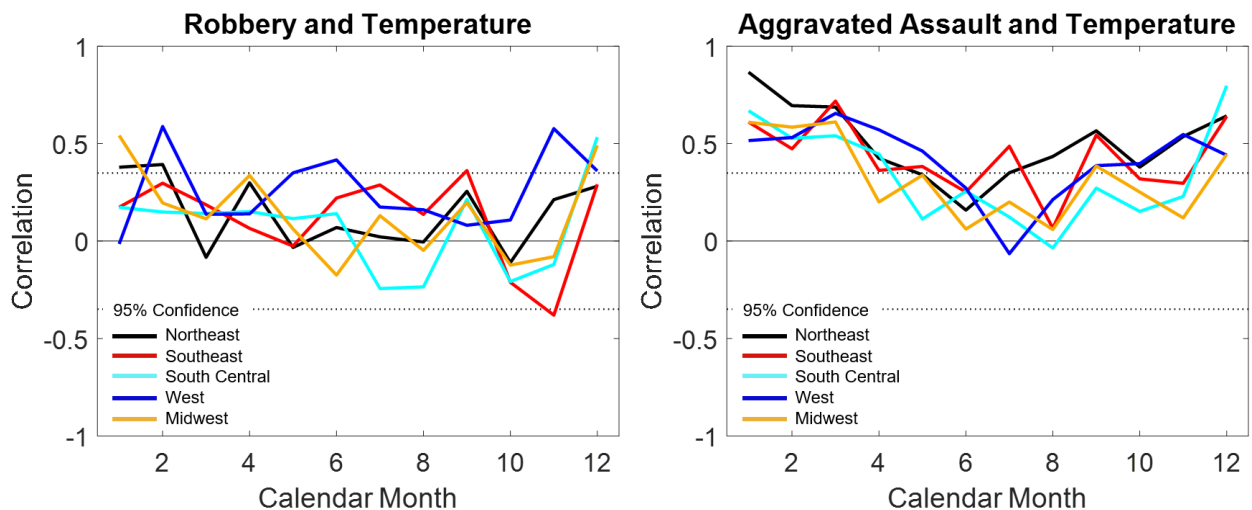
* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 4. Monthly correlations between homicide and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 2 (left). All significance tests are two-tailed Student's t-tests.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.48**	0.52**	0.32	0.50**	-0.10	0.21	0.18	0.29	0.43*	0.32	0.25	0.54**
SE	0.40*	0.30	0.17	0.33	0.09	0.15	-0.13	-0.12	0.31	0.48**	0.29	0.16
SC	0.43*	0.35*	0.39*	0.32	0.32	0.04	-0.07	-0.05	0.47**	0.24	-0.07	0.29
WE	0.03	0.27	0.42**	0.40*	0.35*	0.35*	-0.04	0.01	0.35*	0.36*	0.58**	0.33
MW	-0.06	0.23	0.28	0.42*	-0.03	0.02	0.09	0.08	0.46**	0.26	0.05	0.18

* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 5. Monthly correlations between forcible rape and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 2 (right). All significance tests are two-tailed Student's t-tests.



Supplementary Figure 4. Left: monthly correlations between robbery and monthly temperature anomalies of all cities within each region. Right: same as left but for aggravated assault.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.38*	0.39*	-0.08	0.30	-0.03	0.07	0.02	0.00	0.26	-0.11	0.21	0.28
SE	0.17	0.30	0.19	0.07	-0.03	0.22	0.29	0.14	0.36*	-0.21	-0.38*	0.29
SC	0.17	0.15	0.14	0.15	0.12	0.14	-0.24	-0.23	0.21	-0.21	-0.12	0.53**
WE	-0.01	0.59**	0.14	0.14	0.35*	0.42*	0.17	0.16	0.08	0.11	0.58**	0.36*
MW	0.54**	0.20	0.11	0.34	0.06	-0.17	0.13	-0.05	0.20	-0.12	-0.08	0.49**

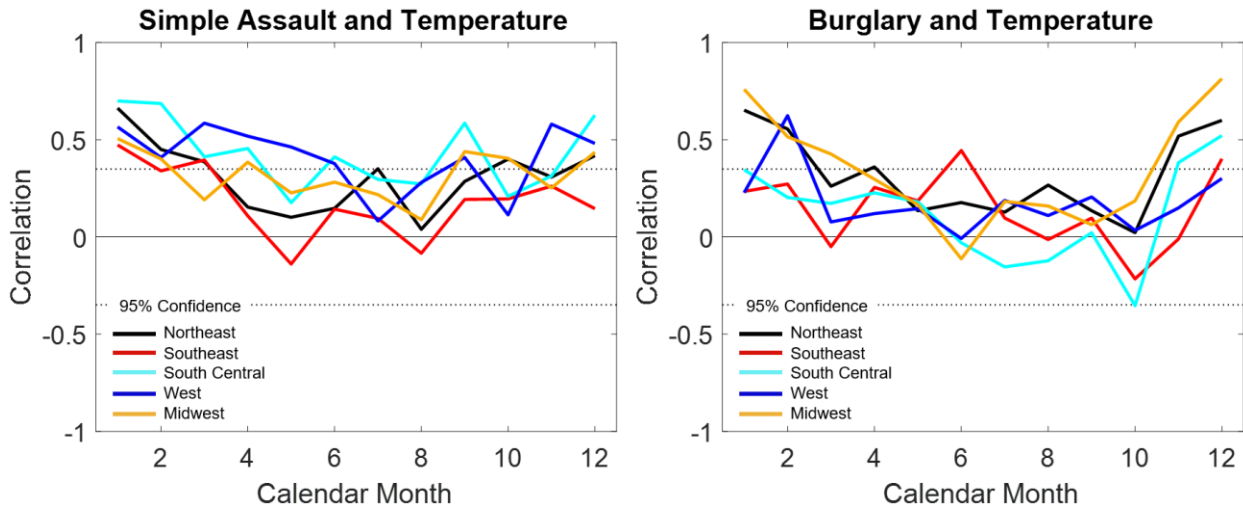
* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 6. Monthly correlations between robbery and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 3 (left). All significance tests are two-tailed Student's t-tests.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.87**	0.69**	0.69**	0.42*	0.34	0.16	0.35*	0.43*	0.57**	0.38*	0.54**	0.64**
SE	0.61**	0.47**	0.72**	0.36*	0.38*	0.25	0.49**	0.07	0.54**	0.32	0.30	0.64**
SC	0.67**	0.53**	0.54**	0.45**	0.11	0.26	0.12	-0.04	0.27	0.15	0.23	0.80**
WE	0.52**	0.53**	0.66**	0.57**	0.46**	0.27	-0.06	0.21	0.39*	0.40*	0.55**	0.44*
MW	0.61**	0.58**	0.61**	0.20	0.34	0.06	0.20	0.06	0.39*	0.25	0.12	0.44*

* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 7. Monthly correlations between aggravated assault and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 3 (right). All significance tests are two-tailed Student's t-tests.



Supplementary Figure 5. Left: monthly correlations between simple assault and monthly temperature anomalies of all cities within each region. Right: same as left but for burglary.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.66**	0.45**	0.39*	0.15	0.10	0.15	0.35*	0.04	0.29	0.40*	0.31	0.42**
SE	0.47**	0.34	0.40*	0.11	-0.14	0.14	0.10	-0.08	0.19	0.20	0.26	0.15
SC	0.70**	0.69**	0.41*	0.45**	0.18	0.41*	0.30	0.27	0.59**	0.21	0.31	0.63**
WE	0.57**	0.41*	0.58**	0.52**	0.46**	0.38*	0.08	0.28	0.41*	0.11	0.58**	0.48**
MW	0.51**	0.40*	0.19	0.38*	0.23	0.28	0.22	0.09	0.44*	0.40*	0.25	0.44*

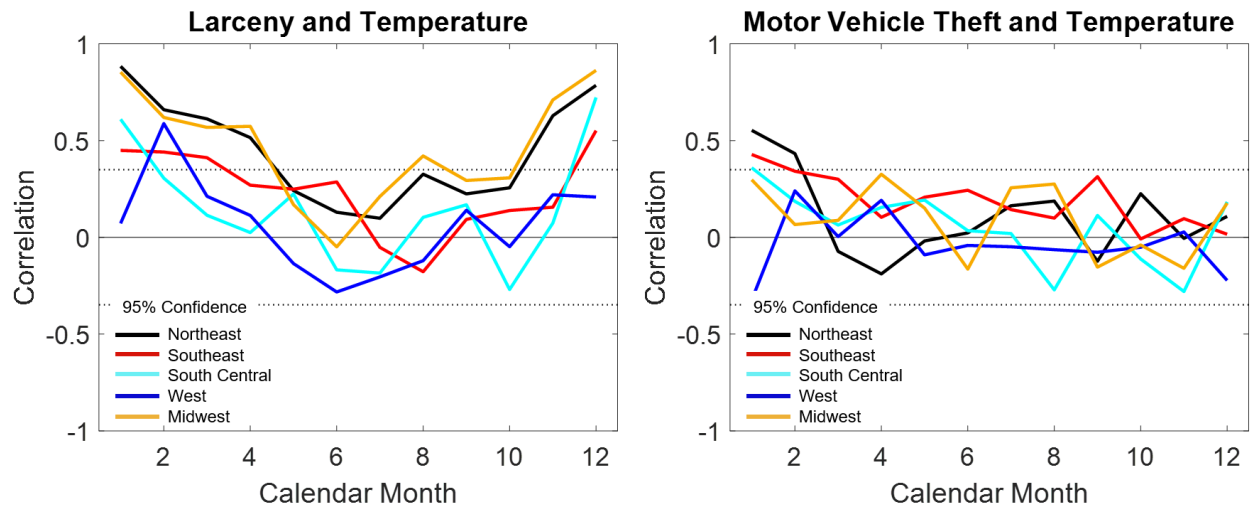
* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 8. Monthly correlations between simple assault and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 4 (left). All significance tests are two-tailed Student's t-tests.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NE	0.65**	0.56**	0.26	0.36*	0.13	0.18	0.13	0.27	0.13	0.02	0.52**	0.60**
SE	0.23	0.27	-0.05	0.25	0.19	0.44*	0.10	-0.01	0.10	-0.22	-0.01	0.40*
SC	0.35*	0.20	0.17	0.23	0.18	-0.03	-0.15	-0.12	0.02	-0.35	0.38*	0.52**
WE	0.23	0.62**	0.08	0.12	0.15	-0.01	0.19	0.11	0.21	0.03	0.15	0.30
MW	0.76**	0.52**	0.43*	0.30	0.17	-0.11	0.18	0.16	0.06	0.19	0.59**	0.81**

* - $p < 0.05$ ** - $p < 0.01$

Supplementary Table 9. Monthly correlations between burglary and monthly temperature anomalies of all cities within each region. This information is identical to that shared in Supplementary Figure 4 (right). All significance tests are two-tailed Student's t-tests.



Supplementary Figure 6. Left: monthly correlations between larceny and monthly temperature anomalies of all cities within each region. Right: same as left but for motor vehicle theft.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
157 NE	0.88**	0.66**	0.61**	0.52**	0.24	0.13	0.10	0.33	0.22	0.26	0.63**	0.79**
158 SE	0.45**	0.44*	0.41*	0.27	0.25	0.29	-0.05	-0.18	0.09	0.14	0.16	0.55**
159 SC	0.61**	0.31	0.11	0.02	0.22	-0.17	-0.18	0.10	0.17	-0.27	0.07	0.72**
160 WE	0.07	0.59**	0.21	0.11	-0.14	-0.28	-0.20	-0.12	0.14	-0.05	0.22	0.21
161 MW	0.85**	0.62**	0.57**	0.57**	0.17	-0.05	0.21	0.42*	0.29	0.31	0.71**	0.86**

* - $p < 0.05$ ** - $p < 0.01$

165 **Supplementary Table 10.** Monthly correlations between larceny and monthly temperature
166 anomalies of all cities within each region. This information is identical to that shared in
167 Supplementary Figure 5 (right). All significance tests are two-tailed Student's t-tests.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
171 NE	0.55**	0.43*	-0.07	-0.19	-0.02	0.02	0.16	0.19	-0.12	0.23	-0.01	0.11
172 SE	0.43*	0.34	0.30	0.10	0.21	0.24	0.14	0.10	0.31	-0.01	0.10	0.02
173 SC	0.36*	0.19	0.06	0.15	0.19	0.03	0.02	-0.27	0.11	-0.11	-0.28	0.18
174 WE	-0.32	0.24	0.00	0.19	-0.09	-0.04	-0.05	-0.06	-0.08	-0.05	0.03	-0.22
175 MW	0.30	0.07	0.09	0.33	0.15	-0.16	0.26	0.28	-0.15	-0.04	-0.16	0.18

* - $p < 0.05$ ** - $p < 0.01$

179 **Supplementary Table 11.** Monthly correlations between motor vehicle theft and monthly
180 temperature anomalies of all cities within each region. This information is identical to that shared
181 in Supplementary Figure 4 (right). All significance tests are two-tailed Student's t-tests.