

# Review of: "How Urban Heat Islands Effect Crime: Understanding the Implications of Temperature, Population Density, and Green Canopy Cover in Shaping Built Environments"

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Potential competing interests: No potential competing interests to declare.

This is an interesting study. The authors are encouraged to consider the following recommendations.

The authors demonstrate a correlation between temperature and crime rates. However, the scale of statistics is monthly. There are significant differences in people's lifestyles across months (seasons). People may be more inclined to enjoy alcohol and nightlife in summer (i.e., higher temperatures), whereas they prefer to stay at home in winter. Such a summer lifestyle may increase the conflict risk and induce crime compared to winter. The analysis does not strip out whether it is temperature that influences crime or lifestyle (or other factors) that influences crime rate. Therefore, I consider that to determine whether temperature influences crime rates, one needs to ensure that the lifestyles (and other factors) are roughly the same.

The study did not quantify the urban heat island, known as the urban-rural temperature difference. The title is therefore inaccurate. The author probably would like to convey that the high temperatures contributed to the increase in crime rate.

The analysis and discussion are relatively weak. I would suggest the authors provide more evidence and explain why temperature affects crime rate from a causal perspective.