Abstract:

Purpose: The purpose of this study is to comprehensively investigate the influence of green areas on crime rates in urban environments. By examining existing literature, considering various mechanisms of influence, this research aims to provide a nuanced understanding of how green spaces can contribute to urban safety. The study seeks to identify the types of crimes that are decreased or increased by the presence of green areas and the specific factors that determine these effects.

Design/Methodology/Approach: This paper employs a multi-disciplinary approach, combining extensive literature review, to investigate the relationship between green spaces and crime rates in urban environments.

Findings: The findings reveal a complex relationship between green spaces and crime rates in urban areas, with well-designed and well-maintained green areas associated with reduced property crimes and certain types of violent crimes. However, poorly maintained green spaces may attract criminal activities, potentially increasing vandalism, drug-related offenses, and loitering, emphasizing the importance of proper planning and management of urban green areas.

Practical Implications: The study's results have practical implications for urban planners and policymakers, highlighting the importance of investing in and maintaining green spaces to promote safety and reduce certain types of crimes in cities. Properly designed and well-kept green areas can act as crime deterrents, fostering community well-being and enhancing the quality of urban life.

Originality/Value: This study's originality lies in its comprehensive exploration of the diverse ways in which green areas influence crime rates in urban environments, encompassing both the reduction and potential increase in various types of crimes. The research adds value by providing a nuanced understanding of the relationship between green areas and crime, offering insights that can inform more effective urban planning and crime prevention strategies, contributing to safer and more sustainable cities.

Keywords: Green areas, crime rates, urban safety, community well-being, environmental criminology, crime prevention.

JEL codes: I14, I39, J17, K10, O20.

Paper type: Review article.

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1. Introduction

Urban areas around the world face rising concerns related to crime and its detrimental effects on community well-being. As cities continue to expand and become more densely populated, understanding the potential relationship between green areas and crime rates has gained significance.

This paper presents a comprehensive exploration of how green spaces, including parks, gardens, and natural landscapes, influence crime rates in cities.

The importance of green areas in urban environments extends beyond aesthetic value, contributing to both ecological sustainability and human well-being. Research has shown that green spaces such as parks, gardens, and forests play a vital role in mitigating environmental hazards, including air pollution and heat islands (Nowak, Crane, and Stevens, 2006). These areas also have a significant psychological impact on urban residents, potentially reducing stress and enhancing mood (Ulrich, Simons, Losito, Fiorito, Miles, and Zelson, 1991).

Additionally, green spaces often act as communal areas that foster social cohesion and community interaction, thereby potentially reducing antisocial behavior (Kuo, Sullivan, Coley, and Brunson, 1998). Furthermore, the ecological benefits include enhanced biodiversity and improved water quality (Tzoulas et al., 2007). As urbanization continues to expand, the multifaceted utility of green areas becomes increasingly crucial for sustainable and harmonious living.

The phenomenon of rising crime rates in urban areas has been a subject of concern and extensive research. High population density, socio-economic disparities, and lack of resources in urban settings have been identified as factors that contribute to the escalation of various types of crime (Sampson, Raudenbush, and Earls, 1997).

Urban areas often experience higher incidences of property crimes, violent crimes, and drug-related crimes compared to rural areas (Lersch and Hart, 2011). Moreover, areas with limited access to social services and economic opportunities are particularly susceptible to crime (Weisburd, Groff, and Yang, 2012).

Urban crime is not only detrimental to the safety and well-being of residents but also imposes financial burdens on cities due to the costs associated with law enforcement, legal proceedings, and incarceration (Aos, Phipps, Barnoski, and Lieb,
Therefore, the surge in urban crime rates is a multi-dimensional issue requiring a holistic approach for effective mitigation.

2. **Green Areas Reduce the Crime Rates in the Cities**

The hypothesis that green areas can reduce crime rates in cities has been the focus of multiple studies, generating intriguing results. One line of research suggests that the presence of well-maintained green spaces can enhance social cohesion, thereby acting as a deterrent to criminal activity (Kuo, Sullivan, Coley, and Brunson, 1998). These communal areas can serve as platforms for neighborhood interaction, which in turn fosters collective vigilance and deters potential criminals (Sampson, Raudenbush, and Earls, 1997).

Moreover, the psychological benefits of green spaces, including stress reduction and mood enhancement, may indirectly contribute to lower crime rates (Ulrich *et al.*, 1991). The calming effects of natural landscapes on the human psyche have been well-documented and could mitigate aggressive behaviors that often lead to violent crimes (Bratman, Hamilton, Hahn, Daily, and Gross, 2015). This psychological perspective provides a compelling argument for the role of green spaces in reducing not just property crimes, but also violent crimes.

However, it is essential to consider that not all green areas necessarily contribute to lower crime rates. Some studies have found that poorly maintained or secluded green spaces can actually attract criminal activity, serving as locations for drug dealing or hidden criminal acts (Bogar and Beyer, 2016). Thus, the quality and design of these areas, including visibility and layout, can influence their impact on crime rates (Cozens, Saville, and Hillier, 2005).

Interestingly, the presence of green spaces can also have varied effects depending on the type of crime. For instance, green areas have been found to reduce property crimes and street-level crimes but have less effect on reducing incidences of domestic violence (Troy, Grove and O’Neil-Dunne, 2012). This implies that while green spaces may be effective in reducing public crimes, they may not address crimes that occur in private spaces.

3. **Green Areas Increase the Crime Rates in the Cities**

The idea that green areas can increase crime rates in cities has been supported by various studies, adding complexity to the discourse on urban planning. One key argument is that these spaces, particularly when poorly maintained, can provide a cover for illegal activities such as drug trafficking or theft (Bogar and Beyer, 2016). The secluded nature of certain green areas, like dense woods or thickets, can make it easier for criminals to operate out of sight from law enforcement and residents, thereby facilitating illicit activities (Cozens, Saville, and Hillier, 2005).
Moreover, some types of green spaces attract vulnerable populations, such as homeless individuals, who might be more likely to engage in survival crimes like petty theft. Notably, the occurrence of specific crimes like robbery and assault has been observed to be higher near urban green spaces as opposed to other types of public spaces (Groff and McCord, 2011). These crimes are often opportunistic in nature, taking advantage of the lower surveillance and relatively fewer witnesses present in these areas.

However, it is crucial to distinguish between the types of green areas when discussing their potential to attract crime. Research indicates that well-maintained parks with recreational facilities are less likely to experience high crime rates compared to neglected or poorly lit green spaces (Wolch, Byrne, and Newell, 2014).

This suggests that the design, maintenance, and accessibility of green spaces play an essential role in determining whether they mitigate or exacerbate urban crime rates (Kuo and Sullivan, 2001).

4. Summary

In summary, the relationship between green areas and crime rates in urban settings is complex and nuanced. While some research indicates that well-maintained green spaces can deter crime by enhancing social cohesion and psychological well-being (Kuo et al., 1998; Ulrich et al., 1991), other studies suggest that poorly maintained or secluded green areas can actually facilitate criminal activities (Bogar and Beyer, 2016; Cozens et al., 2005).

The impact of green spaces on crime rates also varies by the type of crime; for instance, public crimes may be reduced, but domestic crimes are generally unaffected (Troy et al., 2012). It is essential for urban planners and policymakers to consider these multifaceted aspects when designing green spaces, as poor design and maintenance can lead to increased vulnerability and higher crime rates (Kuo and Sullivan, 2001; Wolch et al., 2014).

Therefore, the role of green areas in influencing urban crime is neither universally positive nor negative but is contingent on a range of factors including design, maintenance, and the types of crimes considered.

5. Discussion

The discussion surrounding the influence of green areas on crime rates in cities reveals a compelling interplay of social, psychological, and environmental factors. On one hand, the literature provides evidence that well-designed and maintained green spaces can yield positive social and psychological outcomes, such as increased community interaction and stress reduction, which may indirectly deter crime (Kuo et al., 1998; Ulrich et al., 1991).
On the other hand, it also points to the potential for green areas to become settings that facilitate criminal activities, particularly when these spaces are poorly maintained or secluded (Bogar and Beyer, 2016; Cozens et al., 2005). This duality suggests that simplistic views attributing either solely positive or solely negative crime-related outcomes to green areas are inadequate.

A more nuanced understanding would take into account multiple variables, such as the quality of maintenance, the design and layout, and the specific community demographics (Kuo and Sullivan, 2001; Wolch et al., 2014). Importantly, the impact of green areas can differ depending on the type of crime under consideration. While these spaces may be effective in mitigating public crimes, they are less likely to influence crimes occurring in private domains, like domestic violence (Troy et al., 2012).

Hence, a one-size-fits-all approach to leveraging green spaces for crime prevention is unlikely to be effective; tailored strategies are essential for different types of crime and urban environments.

In conclusion, future research should aim for a more integrated understanding, potentially through interdisciplinary studies that capture the socio-economic, psychological, and environmental dimensions simultaneously. Such efforts could lead to more effective policies and interventions, where the design and maintenance of green spaces are strategically utilized to contribute positively to urban public safety while minimizing negative outcomes.

Addressing these complexities would not only be academically enriching but also highly consequential for real-world applications in urban planning and crime prevention.

References:


