

# Crime rate calculation method due for overhaul, researchers say

April 10 2013

---

In a study published recently in the *Canadian Journal of Criminology and Criminal Justice*, WSU Ph.D. student Zavin Nazaretian and David M. Merolla, Ph.D., assistant professor of sociology in the College of Liberal Arts and Sciences, found that a method called "capping"—which only allows survey respondents to represent a maximum of three incidents per crime type regardless of how many incidents they report—undercounted violent crime by 87 percent and household crime by 36 percent.

Capping is a common methodological practice used in most victimization surveys. The researchers don't believe it is a deliberate attempt by governments to mislead, but rather a once-useful practice that must be rethought in order to yield more accurate crime reporting. Capping has been used to try to correct response bias by limiting the number of individual victimization incidents that one person can represent in official rates.

The study, "Questioning Canadian Criminal [Incidence Rates](#): A Re-analysis of the 2004 Canadian Victimization Survey," examined seven of the eight personal or property crime categories from that survey, which sampled 23,700 households. Nazaretian and Merolla found substantial differences in how household and violent crimes are affected by capping, with results indicating that [violent crime](#) is much more sensitive to capping techniques than household victimization.

That pattern is consistent with research on repeat victimization, and

indicates that individuals reporting more than three victimizations likely are providing accurate responses.

"By capping the numbers, some crime types increase more than others, possibly making the distribution between property crime and violent crime seem more comparable," Nazaretian said. "Perhaps that translates into spending more money on protecting vehicles that could instead be used to support things like homes for [battered women](#)."

"We argue that the increase is so much more for violent crimes, it's likely that at least some of these high numbers are real criminal events," Merolla said. "Rather than limiting it to three, we should be working toward developing some sort of methods to better understand when a report is likely to not be verifiable, or when it's likely to be a real crime."

In the study, the researchers came up with new figures by including all incidences actually reported, leading to much different conclusions for some crimes. For example, Nazaretian and Merolla said the rates barely changed for vehicle theft, but increased for assault by 90 percent, from 51 incidents per 1,000 adults to 96.

"This shows, even when using its own numbers, that crime, particularly the most egregious types, is possibly much higher than the government reports," Nazaretian said.

The researchers believe the higher numbers also provide insight into the number of unreported crimes when compared with arrest rates reported by police agencies, and that the cost of [crime](#) likely is more than is being reported.

The researchers said their report is not intended as a criticism of Statistics Canada, the agency that conducted the survey, but rather as evidence of the need to update a statistical technique for policy reasons

and better resource allocation.

Provided by Wayne State University

Citation: Crime rate calculation method due for overhaul, researchers say (2013, April 10)  
retrieved 22 May 2024 from <https://phys.org/news/2013-04-crime-method-due-overhaul.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.