

Teerada Boonled 2011: The Application of Geographic Information System for Surveillance of Car and Motorcycle Theft in Latphrao Police Station. Master of Arts (Social Development),
Major Field: Social Development, Interdisciplinary Graduate Program. Thesis Advisor:
Associate Professor Sirikorn Kanjanasuntorn, M.Sc. 176 pages.

This research aims to establish spatial and attribute data for surveillance of Car and Motorcycle Theft in Ladprao Police Station by Geographic Information System: GIS. Two types of data had been used on this research firstly, Digital map in the responsibility area of Ladprao Police Station (year 2006: ratio 1:4000) of Department of City Planning, Bangkok Metropolitan Administration and Case Statistics on Car and Motorcycle Theft of Ladprao Police Station during years 2005 – 2009.

It was found that during years 2005 – 2009, there were 863 cases on car and motorcycle theft. This number can be categorized as 52 car theft cases and 711 motorcycle theft cases. July was the month that cars had been stolen the most at 22 cases while motorcycle had been stolen the most at 72 cases in August. Toyota is car's brand that had been mostly stolen at 52 cars (36 percent), while motorcycle's brand that had been mostly stolen was Honda at 511 motorcycles (72 percent). 00.01 – 04.00 AM was the duration of time that both cars and motorcycles had been stolen the most at 57 cars (37 percent) and 228 motorcycles (33 percent).

The analysis of mostly car and motorcycle theft area found that Klong-Chan Flat no. 7–15 was the riskiest area of car theft at 5 cases during 20.01 PM–24.00 AM, while the riskier areas of car theft were Wang Thong House Village at 5 cases during 0.01–04.00 AM and The Mall Bangkokpi Department store at 5 cases during 20.01 PM–24.00 AM. The average risky area of car theft was Klong-Chan Flat no. 20–23 at 2 cases during 16.01–20.00 PM. Niran City Condominium was the riskiest area of motorcycle theft at 16 cases during 0.01–04.00 AM, while the riskier area of motorcycle theft is Klong-Chan Flat no. 8–15 is at 19 cases during 0.01– 04.00 AM. The average risky area of motorcycle theft was Happy land IT Plaza at 6 cases during 20.01 PM – 24.00 AM.

Student's signature

Thesis Advisor's signature