Form of Distribution of Traffic Accident and Environment Factors of Road Affecting of Traffic Accident in Dusit District, Only Area Responsible of Samsen Police Station

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Abstract: This research aimed to study form of traffic distribution and environmental factors of road that affect traffic accidents in Dusit District, only areas responsible of Samsen Police Station. Data used in this analysis is the secondary data of traffic accident case from year 2011. Observed area units are 15 traffic lines that are under responsible of Samsen Police Station. Technique and method used are the Cartographic Method, the Correlation Analysis, and the Multiple Regression Analysis. The results of form of traffic accidents show that, the Samsen Road area had most traffic accidents (24.29%), second was Rachvithi Road (18.10%), third was Sukhothai Road (15.71%), fourth was Rachasrima Road (12.38%), and fifth was Amnuyongsongkram Road (7.62%). The result from Dusit District, only areas responsible of Samsen police station, has suggested that the scale of accidents have high positive correlation with statistic significant at level 0.05 and the frequency of travel ($r=0.857$). Traffic intersection point ($r=0.763$)and traffic control equipments ($r=0.713$) are relevant factors respectively. By using the Multiple Regression Analysis, travel frequency is the only one that has considerable influences on traffic accidents in Dusit district only Samsen Police Station area. Also, a factor in frequency of travel can explain the change in traffic accidents scale to 73.40 ($R^2 = 0.734$). By using the Multiple regression summation from analysis was $Y = -7.977 + 0.044X6$.

Keywords: form of traffic distribution, environmental factors of road, traffic accidents, Dusit district

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