AMINON TRAFFIC ACCIDENTS RATE ANALYSIS

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Abstract

Ambon is the capital of Maluku province, which is one of Indonesia’s developing province, including the development of the roads. The number of traffic accidents that occurred in Ambon City has increased each year. In order to reduce the number of accidents as much as possible, it may be necessary to study the accidents for loss and road optimization fund calculation.

The purpose of this final project is to calculate the amount of the accidents, knowing the characteristics in terms of severity of accident victims and see the comparison of accident rates, calculation of the economic value based on the severity of the accident victims using the Gross Output (Human Capital) method. In addition, the Collision Diagrams and the Black Spot on the road with most accidents are also included.

The value from the calculation of accident rates and the Gross Output (Human Capital) method can be used to calculate the productivity loss due to the victims died as a result of road accidents.

From the results of calculations acquired the highest accident rate in 2006-2010 for death victim and heavy injury is Setia Budi Street (2007), heavy injury (2010), and light injury is Batu Gong Street (2006). Based on the result using The Gross Output (Human Capital) Method, the economical value in 2006-2010 is Rp 70.538.234.756,00 for deaths.
Whereas 2006 - 2010, the economical value is Rp. 15,857,431,167,00 for heavy injury and the economical value for light injury in Rp. 1,441,567,927,00. Based on existing data, acquired Pierre Tendean Street has the highest number of accident. And acquired the critical points (black spot) at Pierre Tendean Street located in sta (0+300) – (0 + 400).

Key words: Accidents highways, Gross Output, Ambon.