

ABSTRACT

That the increase in the number of vehicles that must pass through a section of the road results in a decrease in service function, gives an illustration that the physical suggestion of the highway is reviewed specifically. This reminds us that the physical highway is reviewed to have space to accommodate the flow of movement that occurs or in other words that there is a capacity value or volume limit of traffic flow on a particular road. It is necessary to examine whether the growth in the need for highway facilities that occurs now and in the future is developing in line with the growth of traffic that occurs efficiently without reducing things related to physical limitations and so on. Analysis of the level of service of road sections is a process to assess how well the road section serves the needs of road users.

This study aims to analyze the level of service of the Willem Iskandar road section Km 5+000 – Km 5+200 Mandailing Natal Regency. Through the study, the condition of the road section can be known by identifying performance on the road section and things that affect the road section on geometric characteristics, determining and analyzing the level of service of the Willem Iskandar section of Mandailing Natal Regency and factors that influence it with the Indonesian Road Capacity Manual (MKJI) method. The research data was obtained by conducting a direct field survey to obtain primary data by first selecting the survey location, then calculating traffic flow with the aim of obtaining traffic volume, speed, side obstacles and also road geometry.

From this research it was found that the speed of light and heavy vehicles greatly influences operating speed which decreases relatively quickly due to obstacles that arise and relatively less freedom of movement.

Keywords: Road Section Performance, Road Section.