

ABSTRACT

With the increasing number of vehicles in Medan City, the movement of traffic in carrying out daily activities is increasing which causes high traffic flow and reduced road capacity and the level of service on the road to decrease which can then cause congestion on the road. To find out and identify things that affect the level of road service, whether the geometric characteristics and traffic behavior of existing roads are still feasible to maintain, an analysis of the level of service is needed and for that the causes of existing problems must be sought so that it can be known what factors cause the level of service on existing roads to decrease

Based on the traffic flow in the U-S direction = 987.1 smp\hour with a capacity of 2930.7 smp/hour so that it has a degree of saturation of 0.34 with a road section of 1 km with a speed of 27.54 km/hour, then according to the MKJI it can be determined that the Brigjen Katamso road service index in the S-U direction has a service level of D, namely the traffic flow conditions are approaching unstable, the operating speed decreases relatively quickly due to obstacles that arise, and the freedom of movement is relatively small.

Keywords: Travel time, Degree of saturation, Free flow speed, and Capacity.