

ABSTRACT

Population growth increases demand for housing, urban facilities and transportation. Expansion of the city that is not followed by the development of infrastructure can lead to the emergence of problems in transportation, one of which is the bottleneck. This study aims to determine the way people Setra Housing Dago (Antapani-Bandung) so that later can predict the number of trips generated as a picture of the infrastructure by road users to avoid the occurrence of congestion. How to calculate the number of trips is using two models of Gravity Models and Model Opportunity.

Primary survey carried out through questionnaires on 162 heads of households (HH) in Housing Setra Dago (Antapani-Bandung). Data obtained about the resurrection of his trip that is total trip generation of 454 trip, which are mostly done by the husband and wife who worked, with 1-2 vehicle ownership in every home. While travel by residents of this Dago Setra more toward the Middle Bnadung. Calculation of the Gravity Model and Opportunity Models are variable trip, which will be researched so that the calculations on the model becomes much easier. From the test results of model accuracy by analyzing the value of Root Means Square Error (RMSE), RMSE values obtained at the Gravity Model is relatively small compared Opportunity Model so it can be concluded that a better model used for the calculation of home-based travel trip type of gravity model.

Keywords: transport model, trip generation, gravity models, modeling opportunity.