

MODE CHOICE ANALYSIS IN SUBURBS OF KENDARI CITY

LA ODE MUH. MAGRIBI & M. AKBAR KURDIN

Halu Oleo University, Faculty of Engineering, Department of Civil Engineering, Indonesia

ABSTRACT

Kendari city is the capital of Southeast Sulawesi province that experienced an increase in population growth and economic activity is quite large, so the impact on meeting the needs of large as well, where the demand was not met but where he was met elsewhere. As well as the community of Puwatu District and Kendari District located in Kendari City Suburbs, there People need a mode of transportation to get to their destination. This will have an impact on congestion on road segments in Kendari. This study aims to determine the characteristics of Population trip, find out the factors that influence the selection of modes, as well as get modal choice models to examine the variables that affect the modal choice to destinations in order to anticipate the problems of traffic congestion occurring in the future.

Primary data were collected through questionnaires in 98 respondents in each Puuwatu District and Kendari District. Results of the questionnaires were tabulated into independent variables and the dependent variable, and multiple linear regression analysis using SPSS-16. From the analysis of the characteristics of the respondents trip Kendari suburb is dominated by men, the number of members of his family in a house that is 3 until 6 people. Judging from the level of education dominated College Graduate School / High School or equivalent. In one arrangement of the household, the family members who work in the domination by two people. Self-employed and civil servants constitute the largest proportion of respondents who earn the kind of work one million until 3 million per month. In the process of accessibility to the place of their work, the most used mode of transport is a motorbike. Timely is the biggest reason respondents choose the mode of transport used. By Destinations working has the largest proportion. Respondents only travel < 3 times a day, and based on the distance to the destination > 5 km. Costs incurred for transportation per month ie < Rp.500.000, -. From a series of statistical tests showed that the factors that affect the modal choice in District Kendari is Time Travel (X_1), Travel Expenses (X_2), Mileage (X_3), and Congestion (X_5), the regression model, $Y = 0.569 + 2.0295 X_1 + 0.170 X_2 + 0.242 X_3 + 0.190 X_5$. As for the District Puuwatu factors affecting modal choice is Time Travel (X_1), Travel Expenses (X_2), Mileage (X_3), Congestion (X_5), and Route Travel (X_7), the regression model, $Y = 0.167 + 0.166 X_1 + 0.325 X_2 + 0.197 X_3 + 0.111 X_5 + 0.163 X_7$.

KEYWORDS: Regression, Analysis, Selection Mode, Suburbs, District, Congestion

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