Abstract

Indonesia is agrarian country, but in fact still has food security problem. In FSVA 2009 (Food Security and Vulnerability Atlas 2009), it is found 100 districts in food insecurity state. This research intends to identify food security characteristic of Indonesia and to find the factors influencing food security in that year and the relation model between those factors and food security. This research is using district level as the observation with Dichotomous Logistic Regression as the analysis method. Dichotomous Logistic Regression is chosen because the response variable in this research is binary (district in food secure and district in food insecure). The analysis result shows that the factors that have influence on food security are number of people in poverty (X₂), households without access to electricity (X₃), villages that are not accessible by four-wheeled vehicles (X₄), female illiteracy (X₅), life expectancy (X₆), underweight children (X₇), and households without access to clean water (X₉). The logistic regression model having been yielded in this research is able to classify a district food security status with accuracy 92.5%.

Key words: food security, logistic regression