

SPATIAL ANALYSIS AND FACTORS AFFECTING WEST KALIMANTAN  
PROVINCE FOOD SECURITY IN  
2017-2020

By Adzaniya Maghfira Sausan  
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ABSTRACT

Food security is a status made based on multidimensional issues which means that food security does not only talk about the agricultural sector which is responsible for food availability aspect, but also about access to food and food utilization. West Kalimantan is a province directly adjacent to the state of East Malaysia, so maintaining food security also means to maintain state sovereignty. This study aimed to know the factors that affect food security based on multiple linear regression tests and to see the spatial distribution of food security by mapping. *Analytical Hierarchy Process* (AHP) method uses to weight the food security index and its aspects. Based on the results of multiple linear regression calculations, availability and aspects of climate and environment are the two most influential factors for food security, while utilization and access to food have not yet had a major contribution to food security in West Kalimantan. The distribution of food security in general in West Kalimantan is random, when viewed from the side of food security the distribution is comprehensive. Meanwhile, in terms of access to food, there is a clustering pattern in the western region for food-insecure districts/cities and the eastern regions for food-insecure districts/cities.

Keyword : Food Security, West Kalimantan, Multiple Linear Regression