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Spatial planning in a region is necessary to be carried out. Spatial planning is a realization of planning a region how it will be developed or maintained. It becomes the basic principle within all sequences of spatial planning in a region. Regional spatial planning can involve urban and rural areas. Good spatial planning can make significant contribution to prevent functional conversion from agricultural land into non-agricultural land which is getting massive. Therefore, this study discusses and analyses the functional conversion from ...

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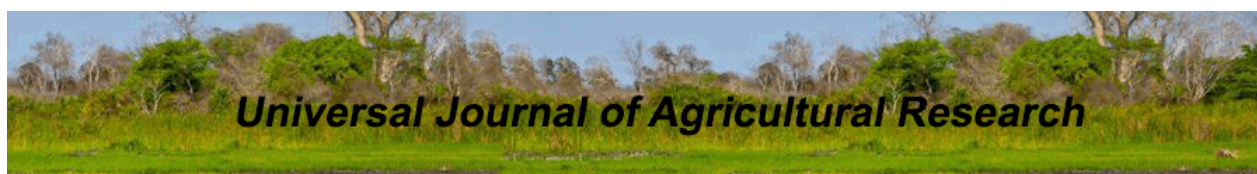
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Public Participation by Optimizing Rural Spatial Planning to Prevent Functional Conversion of Agricultural Land to Non-agricultural Use

Rofi Wahanisa^{*}, Aprila Niravita, Muh. Afif Mahfud, Siti Aminah

Department of Agrarian Law, Faculty of Law, Semarang State University, Indonesia

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Abstract Spatial planning in a region is necessary to be carried out. Spatial planning is a realization of planning a region how it will be developed or maintained. It becomes the basic principle within all sequences of spatial planning in a region. Regional spatial planning can involve urban and rural areas. Good spatial planning can make significant contribution to prevent functional conversion from agricultural land into non-agricultural land which is getting massive. Therefore, this study discusses and analyses the functional conversion from agricultural land into non-agricultural land as well as the strategy of public participation in spatial planning to prevent the conversion, particularly in Munding village in Bergas sub-district in Semarang regency. This study used a qualitative method which revealed truth based on the results of factual data collection during the research. The research is conducted according to observation of natural background or social environment producing descriptive data. The result shows that strategy that can be used to prevent agricultural land conversion is socialization, which educates the people and public participation. Public participation is important to increase the knowledge of people about every stage of spatial planning and license to limit conversion of agricultural land.

Keywords Spatial Planning, Functional Conversion, Agricultural Land, Public Participation

1. Introduction

The Constitution of the Republic of Indonesia stated that Indonesia is a state of law. Consequently, things related to general prosperity are regulated by laws in the form of written regulations. State, as a power organization, is not only responsible for the implementation of governmental power, laws, and public order but also the realization of general prosperity. Koesoemaatmadja [1] argues that the main objective of the implementation of laws, if reduced to only one point, is to create order. It is the pivotal and foremost goal of all laws, and the need for this goal becomes the fundamental requirement for creating a well-ordered society. The implementation of laws, besides, is intended to achieve justice which embraces distinct contents and measures, depending on the existing society.

Land is a place where humans carry out living activities in the past, present and future. In every attempt to use land, forest, and mine, there are regulations. They are intended for the interests of the owner(s) and the state who aim to protect general interests [7]. Salindeho [8] argues that land is a thing having economic value according to the Indonesian people's view. It often prompts disputes at peace, causes conflicts in a society, and creates problems in realizing development. Land is also defined as a physical environment which consists of climate, relief, soil, water, and vegetation as well as the objects above as

Assessing the Availability of Rice by Using System Dynamics Approach in West Java, Indonesia

Maun Jamaludin^{1,*}, Teddy Hikmat Fauzi¹, Yuyun Yuniarti¹, Mulyaningsih²

¹Department of Business Administration, Faculty of Social and Political Sciences, Pasundan University, Bandung, West Java, Indonesia

²Department of Public Administration, Graduate Faculty, Garut University, West Java, Indonesia

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Abstract This study aims to determine the dynamics of the rice availability system in West Java in terms of production and consumption, to obtain important variables that become the leverage point for determining rice availability. This study uses a case study method using the "System Dynamics" approach by using a database of actual production and population from 2014 to 2015, and using it as an estimate of rice availability until 2025. By using actual data of the annual average growth between 2014 and 2019 amounted to 2.81 % for rice production, and of 1.12% for the population, the estimated rice availability is projected until 2025. Specifically, the analysis of Causal Loop Diagrams (CLD) and Stock and Flow Diagrams (SFD) shows that productivity and availability of paddy fields are two important variables that can provide a significant influence on the rice production system as a whole. The findings underscore the importance of productivity and land area as the basis for the study of developing a policy model to ensure the availability of rice in West Java. Theoretically, the findings can be used as a conceptual basis for projecting sustainable rice availability in an area. The results of this study practically have implications for the need to increase productivity and governance of agriculture and rice trade as a policy basis to ensure the availability of rice in West Java.

Keywords Rice Availability, Food Security, System Dynamics

1. Introduction

Food is a basic human need that must be met in sustaining life and living. Law No. 18 of 2012 concerning Food states that the state is obliged to realize the availability, affordability, and fulfillment of adequate, safe, quality and nutritionally balanced food consumption, both at the national and regional levels to individuals evenly throughout Indonesia all the time by utilizing local resources, institutions and culture. History has proven that the food problem is closely related to social security, economic stability, political stability and security or national security as a whole. Weaknesses in realizing food security will shake the joints of national security. Therefore, the development of a solid national food security system is an absolute requirement for national development. In Indonesia, the problem of food and food security cannot be separated from rice commodities, bearing in mind that rice is a staple food consumed by most of the people of Indonesia. This can be seen from the high participation of rice consumption which is more than 100% (97,7%), which means that almost all Indonesian households consume rice [1, 2, 3, 4].

The problem in realizing rice availability is related to the growth of rice demand which is faster than the growth of its supply [5, 6, 7, 8]. The demand for rice increases in line with population growth, economic growth, people's purchasing power, and changes in tastes [9, 10, 11]. This demand-side dynamics causes the national demand for