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Agrotourism Development Using Location Quotient Analysis in Cibuntu-Kuningan Village

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Abstract

Cibuntu Village is a sub-district area that is one of the villages that has the potential for the development of the agricultural, plantation, and livestock sectors. In addition to these sectors, the tourism sector with the concept of agrotourism is expected to be developed and will make a significant contribution to the economy in Cibuntu Village. The purpose of this study is to determine the location of tourist attractions in Cibuntu Village and determine the types of tourism that can be developed in that location. The data analysis method used is divided into two parts, namely policy analysis and basic sector analysis using LQ (Location Quotient) calculation analysis. With applicable policy restrictions, tourism activities in Cibuntu Village are agrotourism and ecotourism. From the results of the LQ calculation, there are superior commodities, namely sweet potatoes, these commodities are worthy of investment to be developed in the future. Several alternative locations for tourism objects and activities that can be developed are agro-tourism activities in agricultural areas located in Cibuntu village which are designated as ecotourism areas.

Keywords: Cibuntu Village Kuningan, Agrotourism, Location Quotient

A. Introduction

Cibuntu village which is an area of Pasawahan Subdistrict, Kuningan Regency, has an area of 1,078,741 ha with a population in 2021 of 1,000 people is one of the villages that have the potential for the development of agriculture, plantations, and livestock sectors. Cibuntu Kuningan Tourism Village has natural tourism, historical and cultural tourism. This village is also one of the best community-based tourism villages in Indonesia. The community offers beautiful natural beauty. Historical tourism in this village is characterized by several sites relics of the Stone age (Megalithic), one of which is a statue of historical relics of the Hindu Buddhist period called the sites saurip Kidul, Bujal Dayeuh, and Hulu Dayeuh. In addition there are also Birit Dayeuh sites and Cikahuripan Sites (Alfatianda & Djuwendah, 2017).

With the development of these sectors, the infrastructure supporting its activities will also increase. The increase in the activities of these sectors is expected to improve the economy in Cibuntu Village. In addition to the above sectors, there is also one sector that is expected to be developed and will have a significant contribution to the economy in Cibuntu Village, namely the tourism sector, more precisely agrotourism, because of the background of Cibuntu Village which is an agrarian village (Artina et al, 2018).

The tourism sector, especially agrotourism which is one of the sectors that can improve the economy in Cibuntu Village which is not currently optimized for potential, so there needs to be a study that can determine potential locations to be developed into agrotourism areas (Bafdal et al, 2014).

Tourism is the potential to be developed, moreover, it is supported by the natural resources in Cibuntu Village which are supported by agriculture, especially fruit crops. Mango, jackfruit, coffee, sweet potato, and banana are commodities that have a high amount of production compared to other commodities in Cibuntu Village. Agrotourism development is inseparable from the role of the community in managing their natural resources so that they have an attraction for tourists, both local and foreign. This superior commodity in Cibuntu Village is expected to be developed in special agro-tourism areas and there is an increase in added value from agro-tourism so that it can contribute more to improving the economy of Kuningan Regency. Not only from the agricultural sector but also from the tourism or agro-tourism sector. This study aims to determine the area of agro-tourism development based on superior commodities in Cibuntu Village (Institut Pertanian Bogor, 2017).

Various approaches and analytical tools have been widely used to identify leading commodities with a more robust economic development tool with all its advantages and limitations. The analysis used is Location Quetiont. According to Bappenas, LQ is a method to calculate the relative comparison of the contribution of the added value of a sector in a region (district/city) to the added value of the sector on the province or national scale. This technique is usually used to identify the sectors of the flagship economic sector (base) that have the potential to be developed (Faidah et al, 2016).

B. Literature Review Agrotourism

Agrotourism is a series of travel activities that utilize the location or agricultural sector from the beginning of production to obtain agricultural products in various systems and scales to expand, knowledge, understanding, experience, and recreation in the field of farming (Indrawati et al, 2020). This shows that agrotourism not only offers agricultural products to visitors but also offers services to make visitors feel satisfied and entertained and can even have the ability to better understand the agricultural sector (Indrayanti et al, 2020).

Agrotourism is a concept and is a new product for tourism that can be used as alternative tourism and as an alternative step in neutralizing the impact of tourism activities (Arismayanti et al, 2019). Agrotourism is alternative tourism that utilizes natural resources in its activities, agrotourism also serves as an educational tourism provider services that provide an understanding of the process of farming ranging from planting, care, harvesting even to marketing and processing to increase the added value of existing resources and able to increase the income of farmers (Budiasa & Ambarawati, 2014).

Location Quotient (LQ)

Location Quotient (LQ) is a comparison of the role of a sector/industry in a region to the size of the role of the sector/industry nationally (Isabhandia & Setiartiti, 2021). The sector/industry compared in the region should be the same as the national sector/industry and the comparison time should also be the same. Static Location Quotient (SLQ) analysis is a preliminary analysis to determine the advantages of an economic sector in a region (Boedirachminarni et al, 2017). SLQ analysis techniques describe a relative comparison between the capabilities of a sector in an area analyzed with the capabilities of the same sector in the wider area. Variables that can be used as a measure to produce SLQ coefficients can be the number of labor, production value, or other variables (Prats & Ramirez, 2018).

LQ technique is one of the commonly used approaches in the base economic model as a first step to understanding the sector of activity that triggers growth. LQ measures the relative concentration or degree of specialization of economic activity through a comparative approach (Suarmanayasa et al, 2018). LQ techniques are widely used to discuss economic conditions, leading to the identification of specialization of economic activities or measuring the relative concentration of economic activity to get an overview in the determination of the leading sector as the leading sector of industrial economic activity (2018). Agrotourism Development Using Lacotion Quotient Analysis in Cibuntu-Kuningan Village

Potential Cibuntu Village Tourism Objects

Cibuntu village is a village with mainland use dominated by agriculture and plantations. The condition of the fertile land and located at the foot of Mount Ciremai so that it has a good climate to be a location of agriculture and plantations. Fertile agricultural land and beautiful panoramic views of Mount Ciremai become the main force in the development and development of the tourism sector in Cibuntu Village. In addition to the agricultural land that has developed, the protected forest area that is also located at the foot of Mount Ciremai is one of the potentials that Cibuntu Village has. With these factors, the potential for tourism object development in Cibuntu Village will not be far from the development of agro-free tourism and nature. Based on observations of tourism potential that is feasible and can be developed, among others: (1) Agrowista in agricultural areas; (2) Nature tourism and adventure in the protected forest area of Mount Ciremai (Fadilla & Aditya, 2019).

With these restrictions, the tourism activities that can be developed in Cibuntu Village are agrotourism, ecotourism, and other natural tourism activities that do not change the pattern of existing space or plan space patterns. Cibuntu village located at the foot of Mount Ceremai has a very beautiful natural panorama, with a very supportive contour to as a vacation location and developed as a natural tourist location. The panorama that can be an attraction is the view towards Mount Ceremai which is very beautiful, and Gongseng Waterfall located in Cibuntu Village (Pramanik & Widyastuti, 2017).

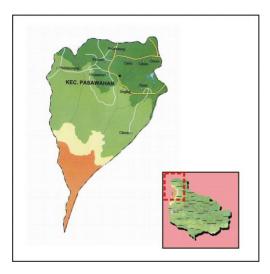


Figure 1. Map of Cibuntu Village

C. Research Methodology

The methods used in this study are quantitative methods and analytical methods of determining the location of agrotourism. The data collection method used in this study is divided into two parts, namely observation and literature

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studies. While the data analysis method used in this study is divided into two parts, namely base sector analysis, using LQ (Location Quotient) calculation and descriptive analysis of the prevailing policies in Cibuntu Village. The formula for calculating LQ analysis is as follows (Faidah et al, 2016):

$$LQs = (vi / vt) / (Vi / Vt)$$

Information:

LQ : Location Quotient of featured products in Hamlet i Cibuntu Village

vi : Production of superior products (tons) in Hamlet i Cibuntu Village

: Total production of superior products (tons) in Hamlet i Cibuntu Villag vt

Vi : Production of superior products (tons) in Hamlet i Cibuntu Village

Vt: Total production of superior products (tons) in Hamlet i Cibuntu Village To find out coefficient localization of superior products in Cibuntu

Tourism Village, can use the formula (Setiono, 2011):

$$\alpha i = [Si / Ni] - [\Sigma Si / \Sigma Ni]$$

Information:

: Localization coefficient, which is positively marked with a value of $0 \leq \alpha$ αi ≤ 1

Si : Production of superior products in Hamlet i Cibuntu Village (tons)

Ni : Production of wood products in Hamlet i Cibuntu Village (tons)

 Σ Si : Total production of superior products in Hamlet i Cibuntu Village (tons)

 ΣNi : Total production of superior products in Hamlet i Cibuntu Village (tons)

D. Result

Analysis of leading commodities in Cibuntu Tourism Village, this analysis becomes important to know the superior products in Cibuntu Tourism Village that will be developed as superior products for agrotourism development. The development of this excellent product is very supportive of the program from Kuningan Regency, which makes Cibuntu Tourism Village into an agrotourism and ecotourism village.

Hamlet	Mango	Jackfruit	Coffee	Sweet Patato	Banana	Total
	_	-	Ton			
Sacatuhu Hamlet	3,782	92	198	9,524	4,324	17,920
Kahuripan Hamlet	3,832	87	196	8,259	4,780	17,154
Kuningan District	60,328	12,596	3,986	119,244	80,528	276,682

Table 1. Number of Production of Su	perior Produc	cts cibuntu Tourism Village
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Sources: Badan Pusat Statistik Kabupaten Kuningan (2021)

Based on Table 1, showing the number of production of superior products in Sacatuhu and Kahuripan Hamlets, the highest number of production of

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superior products in Cibuntu Tourism Village is Sweet Potato in Sacatahu Hamlet of 9,524 tons and Kahuripan Hamlet of 8,259 tons.

Table 2. Location Quotient Number of Production of Superior Products Cibuntu Village

		3-10 01-1001	8-		
Hamlet	Mango	Jackfruit	Coffee	Sweet Potato	Banana
Sacatuhu Hamlet	0.97	0.11	0.77	1.23	0.83
Kahuripan Hamlet	0.98	0.11	0.76	1.07	0.93
Source: Data processed (2020)					

Source: Data processed (2020)

Table 3. Localization Coefficient of Number of Production of Cibuntu Tourism Superior Products

Hamlet	Mango	Jackfruit	Coffee	Sweet Potato	Banana
Sacatuhu Hamlet	-0.0021	-0.0575	-0.0151	0.0151	-0.0111
Kahuripan Hamlet	0.0015	-0.0051	-0.0128	0.0073	-0.0026
Source: Data processed (2020)					

Source: Data processed (2020)

Based on Table 2, it can be known that the sweet potato commodity of the region that has an LQ value of more than 1 is in Sacatuhu Hamlet of 1.23 and is in Kahuripan Hamlet of 1.07. While in Table 3, it can be known that the localization coefficient value does not reach the value of 1, but shows a positive value in Sacatuhu Hamlet and Kahuripan Village with localization coefficient values of 0.0151 and 0.0073.

E. Discussion

Agricultural agrotourism development in Cibuntu Tourism Village the results of the analysis location quotient of superior products is sweet potatoes because it has a value of LQ more than 1 is in Sacatuhu Hamlet of 1.23 and is in Kahuripan Hamlet of 1.07. Then the localization coefficient value is 0.0151 in Sacatuhu Hamlet and is 0.0073 Kahuripan Hamlet. This means that agricultural activities carried out in Sacatuhu Hamlet and Kahuripan Hamlet have been concentrated on one commodity, namely sweet potato. Agricultural activities are evenly distributed in the hamlets of Sacatuhu and Kahuripan.

Sweet potato is one of the food crop commodities that is one of the mainstays for farmers and local governments. Easy and inexpensive cultivation is one reason to cultivate it. Selling prices and a supportive market make sweet potato production increase from year to year. Sweet potato has a good future potential to meet the production of the food crop sector (Faidah et al, 2016; Abdurahman et al, 2020).

The development of sweet potato commodities is not only to get an abundant amount of production, but it is necessary to pay attention to several aspects. These aspects include regional potential, contribution to regional

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income, and contribution to other food crops. These aspects will be a supporting factor for the development of a much better food crop sector, especially sweet potatoes. Commodity development based on commodity type is based on indicators of production and area of land planted for sweet potato cultivation. From there, it will be known which areas have the amount of production and the area of land planted with sweet potatoes which are the basis for sweet potato commodities (Robeta, 2015).

Sweet potato planting in Cibuntu Village applies Plant Growth Promoting Rhizobacteria originating from Mount Ciremai National Park. This plant growthenhancing rhizobacterium was developed from the scarcity of subsidized fertilizers in Cibuntu Village. Mount Ciremai National Park sees this scarcity as an opportunity to make efforts to manage ecosystems in Cibuntu Village which is a buffer village for the National Park by utilizing microbes as a substitute for chemical fertilizers. Bacteria present in plant roots live in colonies around plant roots. For plants, the presence of these microorganisms is very good, because these bacteria provide an advantage in the physiological processes of plants and their growth. Cibuntu residents apply a combination of Plant Growth Promoting Rhizobacteria with manure to support the growth of sweet potatoes ((IPB University, 2021).

Farmers in Cibuntu Village are satisfied with the application of Plant Growth Promoting Rhizobacteria to plant sweet potatoes. According to them, the use of Plant Growth Promoting Rhizobacteria can speed up the harvest period by up to one month. It is expected that farmers can consistently use Rhizobacteria and manure as agricultural inputs consistently. The application of Plant Growth Promoting Rhizobacteria can be an effort to maintain the balance of the ecosystem in the buffer village of Mount Ciremai National Park so that it is not damaged by pollution and chemical fertilizer residues (IPB University, 2021).

F. Conclusion

Based on the results of research and discussion, the development of agrotourism in Cibuntu Village is very good to be done, especially based on the superior products of coffee and sweet potatoes in Sacatuhu and Kahuripan Hamlets. But again adapted to the natural conditions, communities, and the environment around the area that will be developed to be used as an agrotourism development area. Agrotourism development can make the most of natural potential and pay attention to environmental and cultural sustainability Agrotourism Development Using Lacotion Quotient Analysis in Cibuntu-Kuningan Village

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