

Analysis of the Agricultural Sector on the Income of the People of Glugur Rimbun Village

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Abstract

This study aims to analyze the role of agricultural factors on the income of the people of Glugur Rimbun Village. The research used a descriptive qualitative method with data collection techniques through interviews and questionnaires to farmers in Glugur Rimbun Village. The data used is in the form of primary data and secondary data. The results of the study show that the agricultural sector is the main source of income for the village community with the main commodities in the form of corn, red chili, and crystal guava. The average income of farmers ranges from Rp. 2,500,000 to Rp. 16,000,000 per month depending on the type of commodity and land area owned. Factors that affect farmers' income include crop prices, weather, capital, business, fertilizers, and pests. In addition, the agricultural sector also plays a role in meeting the needs of families and education costs. However, the community still faces obstacles in the form of unstable crop prices and limited capital and irrigation. Therefore, government support is needed in the form of seed banning, fertilizers, agricultural technology, and crop marketing to improve people's welfare

Keywords: Agricultural Sector, Farmer Income, Glugur Rimbun Village, Welfare

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Introduction

The farming sector is one of the important sectors in the economic development of rural communities in Indonesia. Most of the villagers still depend on agricultural activities as their main source of income. Agriculture not only plays a role in providing food, but also becomes a source of employment and improving community welfare.

Glugur Rimbun Village is one of the villages where the majority of people work in the agricultural sector. Commodities that are sought by the community include corn, red chili, and crystal guava. Agricultural activities in this village are the main source of income for the community in meeting their daily needs.

However, the agricultural sector also faces various obstacles such as unstable crop prices, weather changes, crop pests, limited capital, and high fertilizer costs. These conditions can affect the income level of farmers and the welfare of the village community.

According to Soekartawi (2002), farmers' income is influenced by production output, selling prices of agricultural products, and production costs incurred. In addition, Mosher (1987) stated that the agricultural sector has an important role in improving the economy of rural communities.

Based on this background, this study aims to find out how the role of the agricultural sector is in the income of the people of Glugur Rimbun Village and the factors that affect farmers' income.

1.1 Problem Formulation

Based on the background of the research, the formulation of the problem in this study is:

1. What is the role of the agricultural sector in people's income Glugur Lush Village?
2. What factors affect farmers' income in Glugur Rimpun Village?
3. How does the agricultural sector contribute to the welfare of the village community?

1.2 Research objectives

The objectives of this research are:

1. To find out the role of the agricultural sector in the income of the people of Glugur Rimbun Village.
2. To find out the factors that affect farmers' income.
3. To analyze the contribution of the agricultural sector to the welfare of rural communities.

1.3 Literature Reference

According to Sukirni (2013), people's income is influenced by the type of work, production level, and economic conditions and conditions that develop in the community. In addition, Soekartawi (2002) explained that the success of the agricultural sector is greatly influenced by land area, capital, technology, and the selling price of crops.

Literature Review

2.1 Income Theory

Income is the result obtained by a person or household from economic activities in a certain period. According to Sukirno (2013), people's income can come from main jobs or additional work done to meet the needs of life.

2.2 Theory of the Role of the Agricultural Sector

The agricultural sector is a sector that has a great contribution to the economy of rural communities. According to Mosher (1987), agriculture plays a role in providing jobs, a source of community income, and providing food needs.

2.3 Previous research

Research by Rahman (2020) shows that the agricultural sector has a significant influence on increasing the income of rural communities. Another study by Siregar (2021) states that the price factors of crops and weather are the main factors that affect farmers' income levels.

Research Methodology

3.1 Research Location

This research was carried out in Glugur Rimbun Village, Kutalimbaru District, North Sumatra. This village was chosen as the research location because the majority of the community works in the agricultural sector and has various agricultural commodities such as corn, red chili, and crystal guava. In addition, the agricultural sector in this village is the main source of income for the community so that it is related to research purposes.

3.2 Research Time

The research will be carried out in May 2026, starting from the field observation process, the distribution of questionnaires, interviews with farmers, to the processing of research data.

3.3 Data Types and Sources

This research uses a descriptive qualitative research method. The types of data used consist of:

1. Primary Data

Primary data was obtained directly through interviews and the distribution of questionnaires to farmers in Glugur Rimbun Village. The data collected included the identity of respondents, types of agricultural businesses, land area, income, agricultural constraints, and the role of the agricultural sector in family welfare.

2. Secondary Data

Secondary data is obtained from books, scientific journals, articles, and other sources related to the agricultural sector and community income.

3.4 Sampling Techniques

The sampling technique uses purposive sampling, which is the deliberate selection of respondents based on certain criteria. The criteria for respondents in this study are people who work as farmers and have experience in the agricultural sector.

3.5 Data Collection Techniques

Data collection techniques are carried out through:

1. Direct observation to the research site
2. Interviews with farmers
3. Dissemination of research questionnaires
4. Documentation

3.6 Data Analysis Techniques

The data analysis technique used is qualitative descriptive analysis. The data obtained from the results of interviews and questionnaires were then analyzed to determine the role of the agricultural sector in the income of the people of Glugur Rimbun Village.

To calculate the average income of farmers, the formula is used:

$$\bar{X} = \frac{\sum X}{N} \text{ or } X = \frac{\sum X}{N}$$

Description:

$\bar{X}$ = Average income of the community

$\sum X$ = Total income of respondent N = Number of study respondents

Based on research data:

- Respondents 1 = Rp. 5,000,000
- Respondent 2 = Rp. 10,000,000 (average from 4 million to 16 million)
- Respondent 3 = Rp. 2,500,000 Is:

$$X = \frac{5,000,000 + 10,000,000 + 2,500,000}{3}$$

$$X = \frac{17,500,000}{3}$$

$$X = \text{Rp. } 5,833,333$$

These results show that the average income of the community from the agricultural sector in Glugur Rimbun Village is Rp. 5,833,333 / month.

Results

4.1 Overview of Glugur Rimbun Village

Glugur Rimbun Village is one of the villages in Kutalimbaru District where most of the people use land to grow various agricultural commodities such as corn, red chili peppers and crystal guava.

Most of the farmers have been working in the agricultural sector for decades so that agriculture is the main source of income for the village community. In addition, some farmers have also used modern agricultural technology such as tractors, harvesting machines, and modern fertilizers to increase production yields.

4.2 Characteristics of Research Respondents

Table 1. Characteristics of Research Respondents

Aspects	Remarks
Job Type	Farmer
Business Location	Glugur Rimbun Village
Main Commodities	Corn, Red Chili, Crystal Guava
Farming Experience	15 – 30 Years
Cultivated Land Area	500 m ² – 1 Hectare
Main Source of Income	Agriculture Sector

Based on the table above, all respondents have a long enough farming experience so that they understand the conditions of agriculture in Glugur Rimbun Village.

4.3 Community Income from the Agricultural Sector

Community income data was obtained from the results of interviews and the distribution of questionnaires to farmers.

Table 2. Community Income

Commodities	Number of Farmers (%)	Average Revenue / Month
Corn	35 %	IDR 5,000,000
Red Chili	25 %	IDR 2,500,000
Guava Crystal	40 %	IDR 10,000,000
Average	100 %	IDR 5,833,333

The total income of the respondents is Rp. 17,500,000 with an average income of Rp. 5,833,333 / month.

4.4 Farmer Income Graph

Graph of people's income from the agricultural sector:



Figure 1. Farmer Income Graph

The graph shows that farmers' income varies depending on the type of commodity, land area, and agricultural production.

4.5 Factors Affecting Farmers' Income

Based on Results interviews, There are Some Factors The seduce farmers' income, namely:

1. Unstable crop prices.
2. Weather conditions.
3. Plant pests.
4. Limited business capital.
5. Fertilizer and irrigation prices

Most farmers state that the price of crops that change frequently causes their income to be erratic. In addition, unstable weather and pest attacks also affect agricultural production.

This is in accordance with Soekartawi's (2002) theory which states that farmers' income is influenced by production costs, crop yields, and selling prices of agricultural products.

4.6 The Role of the Agricultural Sector in Community Welfare

The results of the study show that the agricultural sector has an important role in the lives of the people of Glugur Rimbun Village. All respondents stated that agricultural products help meet the daily needs and educational costs of the family. In addition, government assistance in the form of seeds and fertilizers also helps the community in running agricultural businesses. However, the community still hopes for the assistance of modern agricultural technology, stable crop prices, and marketing support so that farmers' income increases.

4.7 Discussion

The results of the study show that the agricultural sector contributes greatly to the income of the people of Glugur Rimbun Village. The average income of the community which reaches Rp5,833,333 per month shows that the agricultural sector is still the main support for the family economy in rural areas.

The findings of this study are in line with **Soekartawi's theory [1]** which states that farmers' income is influenced by production, production costs, and the selling price of agricultural products. People who have more land and commodities with higher selling value tend to earn greater income than people with smaller land.

The results of the study also support Mosher's theory [2] which explains that the agricultural sector has an important role in rural economic development because it is able to

provide jobs and become the main source of income for the community.

Based on the results of interviews, the community stated that agricultural products help meet daily living needs and improve family welfare. However, obstacles such as uncertain weather, fluctuating crop prices, limited capital, and pest attacks are still the main obstacles in increasing people's income.

Real Evidence of Research Results

Based on questionnaire data and interviews conducted with people working in the agricultural sector, it was found that:

- People's income from the agricultural sector ranges from **IDR 2,500,000 to IDR 10,000,000 per month.**
- The average income of the community reaches **IDR 5,833,333 per month.**
- The main commodities worked on are **corn, red chili, and crystal guava.**
- The main factors that affect income are **the price of crops, weather, working capital, fertilizers, and plant pests.**
- The agricultural sector plays an important role in meeting the needs of families and improving people's welfare.

The data shows that the agricultural sector is still the main economic sector that contributes to the income of the people of Glugur Rimbun Village.

Conclusions

5.1 Conclusion

Based on the results of research that has been carried out in Glugur Rimbun Village, it can be concluded that the agricultural sector is the main source of income for the village community. Agricultural commodities that are widely cultivated by the community are corn, red chilies, and crystal guava. The results of the study show that farmers' income varies depending on the type of commodity, land area, and production obtained.

The agricultural sector not only plays a role in meeting people's daily needs, but also helps with education costs and improves family welfare. However, in running an agricultural business, the community still faces

Some obstacles such as unstable crop prices, uncertain weather, plant pests, and limited capital and irrigation.

5.2 Suggestions

1. The government is expected to provide assistance in the form of superior seeds, fertilizers, modern agricultural technology, and irrigation system improvements to farmers.
2. Farmers are expected to improve their knowledge and skills in managing agricultural businesses so that production results are maximized.
3. There is a need for stability in crop prices and marketing support so that farmers' income increases.

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