

# **Influence Price, Production Rubber and Income on The Level of Welfare of Rubber Farmers in The Village Ranto Jior District River Right Regency Port Rock South**

**Ainatul Hasanah<sup>1\*</sup>, Muhammad Ikhsan Harahap<sup>2</sup>, Purnama Ramadani Silalahi<sup>3</sup>**

<sup>1</sup> Prodi Ekonomi Islam, Fakultas Ekonomi dan Bisnis Islam, *Universitas Islam Negeri Sumatera Utara*, Email : [ainahasibuan9@gmail.com](mailto:ainahasibuan9@gmail.com)

<sup>2</sup> Prodi Ekonomi Islam, Fakultas Ekonomi dan Bisnis Islam, *Universitas Islam Negeri Sumatera Utara*, Email : [M.ihسان.harahap@uinsu.ac.id](mailto:M.ihسان.harahap@uinsu.ac.id)

<sup>3</sup> Prodi Ekonomi Islam, Fakultas Ekonomi dan Bisnis Islam, *Universitas Islam Negeri Sumatera Utara*, Email : [Purnamaramadani@uinsu.ac.id](mailto:Purnamaramadani@uinsu.ac.id)

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**Email Correspondence :**  
[nurdinidini94@gmail.com](mailto:nurdinidini94@gmail.com)

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## **ABSTRACT**

*This research aims to determine the impact of price, rubber production, and income on the welfare level of rubber farmers in Ranto Jior Village, Sungai Kana District, South Labuhan Batu Regency. Using a quantitative method with multiple linear regression analysis supported by SPSS version 23, data were collected through questionnaires. The study's population was the residents of Ranto Jior Village, with a sample size of 100 people selected using probability sampling based on the Lemeshow formula. The findings reveal that the welfare of rubber farmers is significantly and positively influenced by rubber prices, rubber production, and income. All three factors – price, rubber production, and income – together significantly influence the welfare of rubber farmers in Ranto Jior Village. The determination test shows that these factors account for 92.8% of the variance in welfare, indicating a very strong influence.*

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## **INTRODUCTION**

Agriculture is industry important for development State economy. Countries progress and develop You're welcome endeavor For increase Income real per capita through development economy. Development goals economy in developing countries is For increase welfare society so they can reach level equal life with developed countries. Indonesia basically is an agricultural country, with majority its inhabitants live in the area rural and sector dependent agriculture For livelihood they. Therefore that's the goal mainly is For push development source Power nature and humans available in the area rural. (Pujiarti, Asriati, and Syahrudin 2022) Indonesia has a large, fertile territory and is also an agricultural country because Indonesia has amount residents working in the sector sufficient agriculture big. Apart from that, in the field agriculture is one support country's economy. Should Indonesian population in

particular people living in rural areas prosperous and prosperous. However, in reality No so, because people living in villages were farmers and still are many are poor or No prosperous. (Regi Prayoga, Sudiarti, and Tambunan 2023)

North Sumatra, as one province in western Indonesia, has diverse subsector agriculture. Apart from the rubber that becomes commodity main, provincial this is also famous with plant coconut, rubber, robusta coffee, and cocoa. Between commodity agriculture that, rubber stand out with significant production. Cultivation rubber chosen Lots farmer Because age long plant, which is possible they maintain garden though price rubber experience fluctuation. Apart from that, maintenance relatively rubber easy and low cost too reason Why many people choose For farming rubber. Likewise with rubber Lots public choose For plant rubber Because product derivatives are much needed in the market and almost become need principal everyday (Sofian et al. 2023).

In the area South Labuhan Batu, there is phenomenon in which gardens rubber that has long become source livelihood main public converted become garden rubber. Data from the Central Statistics Agency show that wide land plantation rubber experience improvement. Transfer process function land agriculture need sufficient cost big, far more tall compared to with open land new. This matter show that decision farmer For move sector agriculture No only driven by factors maintenance and costs, but also by consideration more economic broad and possible more profitable in Long term (Sofian et al. 2023).

Based on data from service agriculture, prices rubber in North Sumatra experienced fluctuation from 2018 to in 2023. Rubber in 2018 is priced with price 9,000 per kg. in 2019 experienced increase to 5,000 per kg. Dropped back to 7,000 per kg. in 2021 experiencing increase to 10,000 per kg which makes price rubber highest at 6 years final. Then experience a decrease of 7,000 per kg. until finally in 2023 it will be 8,000 per kg.

Earned income from sale sap rubber No stable and fluctuating based on a number of factor like price rubber, wide land tapped, and age tree rubber. Supply and demand, situation global politics and economics, trends mark exchange, price rubber synthetic, and growth the global economy is influencing factors price rubber nature in international markets. (Syamsurizaldi and Husna 2020) Monetary value a goods shown with the price. The level of demand is greatly influenced by price, though There is potential For changed. By general, price a goods determined through agreement between sellers and buyers, who consider factors like mark goods and prices agreed sale. (Ilyas, Fitria, and Ratih 2023)

The main purpose development national and sector agriculture is For ensure welfare farmer. This matter is need important in every House ladder use ensure welfare all over member family. Government endeavor provide service well-being for individuals can life comfortable and reachable potential maximum, so possible they

fulfil not quite enough answer social in a way effective. Welfare personal and family can improved when function social walk in a way efficient. (Pujiarti et al. 2022) Assessment welfare public in studies This based on the extent of needs and indicators fundamentals, including education, health, housing, as well as technology information and communication, has fulfilled completely. This matter in accordance with Iman Sastra Nugraha & Aprizal's findings Alamsyah (2019) underlines this impact level education farmer to Income they. (Nugraha et al., 2019).

Remember importance role sector agriculture in economy rural, then welfare manufacturer rubber in Ranto Jior Village become issue critical need study more carry on. Rubber prices, production rubber, and income is factor economy important impact significant to welfare farmer. In context this, more understanding deep about How third variable This influence welfare farmer can help in development more policies effective that will be increase quality life they.

Important determining factor welfare farmer is price rubber. Fluctuation price rubber on the global market has an impact direct to income manufacturer. Improvement profit financial receipts manufacturer when price rubber currently tall possible they For more effective fulfil need fundamental them, incl food, education, and health. On the other hand, a decline price rubber can impact on decline income manufacturer so that impact on difficulties economy and decline quality life. Therefore that is, prosperity manufacturer depends on stability price rubber. Study related influence price to welfare found in research (Ritonga, Triyanto, and Sitanggang 2021) and (Gapari 2021). Where there is difference results study. On research Ritonga, Triyanto and Sitanggang in 2021 obtained results study that price influential significant to welfare. However results different results obtained through research conducted by Gapari in the same year that is price No influence welfare farmer.

Indicator other welfare farmer is income. With increase income, producer can invest in technology more agriculture forward, which in turn will increase quality and productivity plant rubber. Apart from that, family farmer capable going through difficult times without experience decline significant well- being Because there is a feeling of security significant financial from consistent income. With increase income them, producers can increase standard life them and get involved more active in activity social and societal. Study related influence Income to welfare namely in research (Wahbi et al., 2020) and (Fitriyanti and Masruchin 2023). Where there is difference results study. In research Wahbi, Syahrudi, and Ariwibowo in 2020 obtained results study that Income influential significant to welfare. However results different results obtained through research conducted by Fitriyanti and Masruchin in 2023, namely income No influence welfare.

However Welfare is also greatly influenced by production rubber. This matter that's also what makes the difference study This with study previously. Where in research This writer add variable other related independent welfare farmer that is

variable Production. Improvement production rubber show increase efficacy and productivity land agriculture. Improvement production No only produce sale more products many, but also signifies implementation practice and technology more agriculture proceed. Creation field Work new to the sector related like processing and distribution, as well increase income farmer can achieved through increase production rubber. This is in turn can increase stability social and economic village. Study related influence production rubber to welfare found in research (Setyawan 2021) and (Kurniati, Asad, and Arsyah 2022). On research Setyawan found that income and welfare farmer increase in a way significant with its height production, and they “strongly agree” they have impact positive to results harvest. Whereas results different found in research kuanawati et al. Where in research the productivity No influential to welfare.

Study This aim For give more understanding comprehensive about dynamics influencing economy life farmer rubber in Ranto Jior Village with study impact simultaneous price rubber, production rubber, and income. Research result This expected can become runway for taker policy For devise more strategies effective in increase welfare manufacturer rubber in the village. Based on background data behind the interesting For done A study with title **“The Influence of Prices, Rubber Production, and Income Towards the Level of Welfare Rubber Farmers in Ranto Jior Village Sungai Kana District, Regency South Labuhan Batu”**.

## **THEORITICAL REVIEW**

### **Price**

Price is an amount of money charged to something product certain. The company stipulates price in various method. In the company small, price often determined by management peak. In companies this , management peak compile objective and policy about determination price common and frequent agree price proposed by management ranking lower . (Muna, Anggraini, and Atika 2021) Fair prices is the price is not exploitative or bullying one parties, and profitable second split party in a way equivalent. (Ridwan Harahap 2024) In determining Indicator price There is four that is affordability price, suitability price with quality product, power competitive price, and suitability price with benefits. (Ilyas et al. 2023)

### **Rubber Production**

Activities that change input become output called production. Apart from manufacturing, activities production covers storage, distribution, transportation, trading, packaging repeat, and activity other. Foundation technical every production process called as function production in theory economy. Function production is illustrative equation correlation between output level and level (combination) of input use. (Nainggolan and Lorenza 2021)

Purpose of activity production is For increase benefits that can be obtained achieved through various ways, such as : a) Fulfill need man in a way moderate b) Identify and fulfill Community needs . c) Develop inventory products and services for the future. d) Give chance For do activity social and worship of Allah (Kartika Sari, M Nazori Majid, and Muhammad Subhan 2023).

### **Income**

Income is a results obtained from use of capital and giving service individual or both in the form of money, goods materials and services individual or both in the form of money, goods materials and services during term a certain time. Income or income from public is a results in transaction buy and sell. So, Income can obtained If happen transaction between traders and buyers in One mutual agreement. (Masinambow, Oldy Rotinsulu, and Masloman 2023)

As for indicators Income namely: 1) Income monthly received 2 ) Source 3) Increase Income level life society 4) Burden imposed on the family . (Abidin, Yafiz , and Harahap 2023)

### **Welfare**

In terms general, welfare or prosperous pointing to good condition, condition human where the people are in circumstances prosperous, deep circumstances healthy and peaceful. In the economy, prosperity connected with profit object. Prosperity has a special meaning official or technical, like in term function welfare social. In policy social, welfare social pointing to range service For fulfil need public. (Tantuka 2024).

As for indicators welfare among them Friday member family, health and nutrition, education, employment, consumption House stairs and housing. (Rahman, Nuddin and Sriwahyuningsih 2023).

## **RESEARCH METHODS**

Type of research used by researchers is study quantitative. This method called as method quantitative because of research data form numbers and analysis use statistics. (Nurdin and Hartati 2019). Research methods in research This is method used For finish a study scientific with objective solve moderate problem researched. (Trilaksono and Prabowo 2022)

In research this, measurement variable use scale likert. Likert scale is existing scale four or more details combined questions so that form a score/value that represents characteristic individual, for example knowledge, attitudes, and behavior . Variables used in research This are Price (X1), Rubber Production (X2), Income (X3), and Welfare (Y).

In research This is the population used is the people of Ranto Jior Village. Samples are part of the total and characteristics possessed by the population the. Formula Lemeshow used For ensure amount sample will collected from population.

If size population No known or No limited, formula This usually used in study survey. Sample size as many as 100 respondents obtained with use formula Lemeshow with level 95% confidence and 10% margin of error. (Junaidi and Susanti 2019).

RESULTS AND DISCUSSION

Results

A. Test Assumption Classic 1. Test Normality

normality test is carried out to check whether the confounding or residual variables in the regression model have a normal distribution (Yunika and Gunawan 2024).

In this study, the normality test was measured using the KolmogorovSmirnov value with the help of IBM SPSS Statistics 23 software , as shown in the following table:

Table 3 Test Normality One-Sample Kolmogorov-Smirnov Test

One-Sample Kolmogorov-Smirnov Test		
		Unstandardize d Residual
N		100
Normal Parameters a, b	Mean	.0000000
	Std. Deviati on	.61847971
	Absolut e	,095
	Positive	,095
Most Extreme Difference s	Negativ e	- .075
Test Statistics		,095
Asymp . Sig . (2- tailed)		,526 <sup>c</sup>

Source: Data processed researcher 2024

Based on this table, the normality test uses the Kolmogorov-Smirnov method with criteria that Kolmogorov-Smirnov significant (Asymp. Sig. (2tailed) <  $\alpha$  0.05) show distribution normal. Based on data the Asymp value. Sig. (2-tailed) = 0.526 > 0.05 indicating that the data is normally distributed.

2. Test Multicollinearity

Table 4 Test Multicollinearity Coefficients <sup>a</sup>

Coefficients <sup>a</sup>

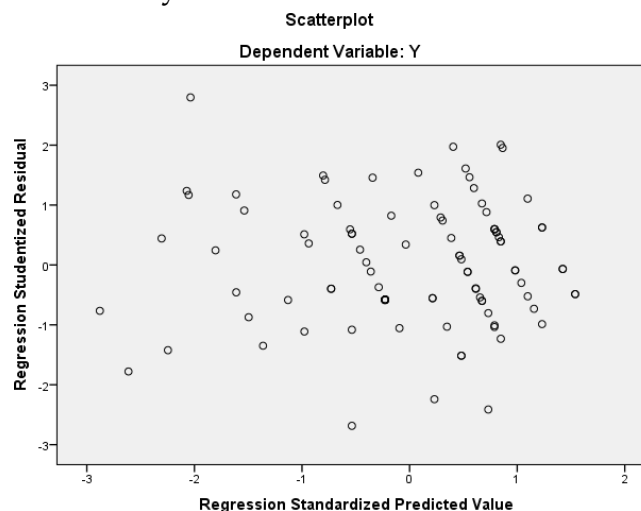
Model	Unstandardize d Coefficients		Standardized Coefficients	t	Sig .	Collinearit y Statistics	
	B	Std . Error	Beta			Tolerance	VIF
1 (Constant)	,610	,491		1,242	,217		
X1	,558	,051	,583	11,015	,000	,266	3,762
X2	,129	,055	,121	2,327	,022	,278	3,603
X3	,298	,050	,314	5,919	,000	,265	3,768

a. Dependent Variables: Y

Source: Data processed researcher 2024

multicollinearity test in table 8, the VIF (Variance) value Inflation Factor) for the Price variable is 3.762 with a tolerance value of 0.266, the VIF value for the Rubber Production variable is 3.603 with a tolerance value of 0.278 and the VIF value for the Income variable is 3.768 with a tolerance value of 0.265. To determine whether there is a correlation between the independent variables in this regression model, The VIF criterion of less than 10 is used. These results indicate that there is no relationship significant between variables free, so that No happen multicollinearity in this study.

### 3. Test Heteroscedasticity



Source: Data processed researcher 2024

Picture 1 Test Heteroscedasticity

In a good regression model, there is usually no heteroscedasticity. Through the scatterplot graph, it can be seen that a regression model is being experienced heteroscedasticity or No. If there is pattern certain in chart then indicates has happen heteroscedasticity. From The picture seen that dots spread in a way random as well as spread Good on nor under number 0 on the axis Y. So it can be concluded that heteroscedasticity does not occur in the regression model in this study

## B. Analysis Regression Linear Multiple

Multiple linear regression analysis is used to predict changes in the dependent variable based on two or more variable independent as factor predictor. (Yunika and Gunawan 2024)

Table 6 Analysis Regression Linear Multiple

Coefficients<sup>a</sup>

Model	Unstandardize d Coefficients		Standardized Coefficients	t	Sig .
	B	Std . Erro r	Beta		
1 (Constant)	,610	,491		1,242	,217
X1	,558	,051	,583	11,015	,000
X2	,129	,055	,121	2,327	,022
X3	,298	,050	,314	5,919	,000

a. Dependent Variables: Y

Source: Data processed researcher 2024

Based on the table obtained mark equality regression as following:

Welfare = 0.601 + 0.558 Price + 0.129 Production Rubber + 0.298 Income + e

Based on results regression linear multiple Which found, can interpreted as follows:

- Mark constant ( $\beta$ ) is 0.610%. This indicated that If mark variable price Rubber Production and income You're welcome is 0, level welfare will reached 0.610%.
- Coefficient regression For the Price variable is 0.558. It means that If score evaluation to price increase equal to 1 unit, score evaluation to welfare will increase amounting to 0.558%. Price variables have influence positive to welfare.
- Coefficient regression For variable Rubber Production is 0.129%. That is, if score evaluation to income go on 1 unit, score evaluation to welfare will too increase of 0.129%. Variable Rubber Production also has influence positive to welfare.
- Coefficient regression For variable Income is 0.298%. That is, if score evaluation to income go on 1 unit, score evaluation to welfare will too increase of 0.298%. Variable Income also has influence positive to welfare.

## C. Test Hypothesis

### 1. Test Q (Partial)



**Table 7 Test Q Coefficients <sup>a</sup>**Coefficients <sup>a</sup>

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig .	Information
	B	Std . Error	Beta			
1 (Constant)	,610	,491		1,242	,217	
X1	,558	,051	,583	11,015	,000	Influential
X2	,129	,055	,121	2,327	,022	Influential
X3	,298	,050	,314	5,919	,000	Influential

a. Dependent Variables: Y

Source: Data processed researcher 2024

Based on data the, obtained information results test Q is as following:

- Results test Price to Welfare show mark significance of 0,000 (more small of 5% or 0.05) with calculated t- value amounting to 11,015. It means price own influence positive and significant to well-being, so hypothesis H1 is accepted.
- Results test Production Rubber to Welfare show mark significance as big as 0.022 (more small from 5% or 0.05) with mark t- count as big as 2,327. It means Rubber Production has influence positive and significant to Well-being, so hypothesis H2 is accepted.
- Income test results to Welfare show mark significance as big as 0,000 (more small from 5% or 0.05) with mark t- count as big as 5,919. It means Income own influence positive and significant to Well-being, so hypothesis H3 is accepted.

**2. Test F (Simultaneous)**

Test F in analysis regression linear multiple aim For know the influence of independent variables simultaneously

**Table 8 Test F ANOVA <sup>a</sup>**ANOVA <sup>a</sup>

Model	Sum of Squares	df	Mean Square	F	Sig .	Information
1 Regression	491,441	3	163,814	4,274	,000 <sup>b</sup>	Bepnagaruh simultaneous
Residual	37,869	96	,394			
Total	529,310	99				

a. Dependent Variables: Y

b. Predictors: (Constant), X3, X2, X1

Source: Data processed researcher 2024

Based on the table above, it can be seen that the significance value is 0.000 < 0.05. Therefore, it can be concluded that the independent variables, namely Price and Income, together or simultaneously have a significant effect on the dependent variable, namely Welfare.

### 3. Test Coefficient Determination

**Table 9 Test Coefficient Determination Model  
Summary<sup>b</sup> Model Summary<sup>b</sup>**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.964 <sup>a</sup>	.928	.926	.62807

a. Predictors: (Constant), X3, X2, X1

b. Dependent Variable: Y

Source: processed data researcher 2024

Based on table on, obtained mark Adjusted R Square is 0.928, matter This means 92.8% variation variable bound that is Welfare can explained by Price, Production Rubber and Revenue. Meanwhile, the remainder (100% - 92.8% = 7.2%) is explained by other variables outside the research. So it can be concluded that price, rubber production and income are very strong in influencing the welfare of rubber farmers as evidenced by the percentage of 92.8%.

## Discussion

### 1. Influence Price Rubber To Welfare Farmer Rubber In Village Ranto Jior

Price shows influence positive to welfare. Price test results to Welfare show mark significance of 0,000 (more small from 5% or 0.05) with mark t- count as big as 11,015. This means price own influence positive and significant to welfare, so that hypothesis H1 accepted.

Rubber prices own significant influence to welfare farmer rubber in Ranto Jior Village Because fluctuation price rubber in a way direct influence income farmer. When the price rubber on the market increases, income farmer rubber in Ranto Jior Village also experienced increase. More income tall possible farmer For fulfil need base they like food, education, and health with more Good. On the other hand, when price rubber decreased, income Farmers are also declining, which can be cause difficulty economy and reduce quality life they. By Because that is, stability price rubber become factor key in determine welfare farmer rubber in the village the.

Apart from that, price stable and high rubber is also possible farmer For

invest in practice more agriculture better and more technology proceed. With adequate income, farmers can buy fertilizer quality, tools efficient farming, and even expand land agriculture they. Investment This can increase productivity and quality results harvest rubber, Which on turn can increase income term long. Besides That, income Which stable and enough tall Also give security financial for farmer, possible they For build savings and facing difficult times without experience decline significant in welfare. With Thus, price profitable rubber is element important in improve and maintain welfare farmer rubber in Ranto Jior Village.

Study this is also in line with research conducted by Kartika Sari (2023), with title Influence of Prices and Productivity of Palm Oil To Welfare Farmers in Promise Village Subdistrict West Bar Regency Labuhan Batu,

that price influential in a way partial to Income farmers. ( Ritonga et al. 2021)

## **2. Influence Production Rubber To Welfare Farmer Rubber In Village Ranto Jior**

Production Rubber show influence Which positive to welfare. Test results Production Rubber to Welfare show mark significance as big as 0.022 (more small from 5% or 0.05) with mark t-count for 2,327. This means Rubber production has a positive and significant influence on welfare, so hypothesis H2 is accepted.

Welfare farmer rubber in Village Ranto Jior influenced in a way significant and positive by rubber production. Farmers' income also increases along with increased rubber production. This is caused by the high demand for rubber on the market Which used Good For needs in country nor outside country. Farmers can increase level his life with increase access to education, healthcare and other basic needs as a result of this increase in income. In addition, producers can improve the quality and productivity of rubber produced by investing in more advanced agricultural technology, supported by consistent income.

Production rubber give impact social Which positive for public in Ranto Village Jior , besides impact economy. Sector agriculture and sector related other, such as processing And distribution, create field Work new for resident village along with the increase in rubber production. This has an impact on increasing levels of social stability and decreasing unemployment rates in rural areas. In addition, increased prosperity allows farmers and their families to be more actively involved in social and community activities, thereby strengthening social ties and solidarity they. By Because That, production rubber No only improve welfare economy but Also give impact positive Which significant towards social welfare. from residents of Ranto Jior Village.

These results are in line with research conducted by (Setyawan 2021) which states that farmers' income and welfare increase significantly with high production, and they "strongly agree" it has a positive impact on crop yields.

### **3. Influence Income To Welfare Farmer Rubber In Village Ranto Jior**

Income show influence Which positive to welfare. Results Income test to Welfare show mark significance as big as 0,000 (smaller than 5% or 0.05) with a t-value of 5.919. This means that income has a positive and significant influence on welfare, so hypothesis H3 is accepted.

This situation shows that as the amount of income received increases, the level of welfare of rubber farmers will increase, and conversely, when the level of income received decreases, the level of welfare of rubber farmers will decrease. Income is an important component to improve the level of welfare of oil palm farmers.

Income has a positive and significant influence on the welfare of rubber farmers because higher income allows farmers to meet basic needs and improve their standard of living. When rubber farmers get income adequate from results rubber sales, they can access service health, education, And need House ladder other. In addition, higher incomes also allow farmers to invest part of their income in better agricultural technology and practices, which in turn can increase the productivity and quality of their rubber harvest.

In addition, increased income can provide financial security and economic stability for rubber farmers. With higher income, farmers can build savings For face times difficult, like moment price rubber down or happen disaster natural Which influence production rubber. Stability This is essential for long-term well-being, as it provides peace of mind and ability For plan period front with more Good. Overall, income Which more tall contribute in a way direct And significant impact on improving the welfare of rubber farmers through various mechanisms that support basic needs, investment and financial security.

This is in line with research conducted by (Wahbi, Syahrudi, and Ariwibowo 2020b), whose research found that the most important thing in welfare is income. In line with the research results (Abidin et al. 2023) which state that welfare can measured from tall low level of income received.

### **4. Influence Price, Production Rubber and Income To Welfare Rubber Farmers in Ranto Jior Village**

Based on results study, known mark significance on test F is  $0.000 < 0.05$ . Therefore, it can be concluded that the independent variables, namely Rubber Production Prices and Income, together or simultaneously have a significant effect on the dependent variable, namely the Welfare of Rubber Farmers in Ranto Jior Village.

Welfare manufacturer rubber in Village Ranto Jior very influenced by prices, rubber production, and income. The combination of these economic factors determines the welfare of farmers. Producers' income automatically increases when the price of rubber in the market increases, allowing them to experience a higher standard of living. Due to the direct financial benefits provided by high rubber

prices, producers can access better health services, invest in education, and meet their basic needs.

In addition, the welfare of producers increases significantly with increasing production rubber. Besides increase amount product Which available for sale, increase production Also show increase efficiency and agricultural productivity. Farmers can take advantage of economies of scale and make greater profits by increasing their production. Additionally, better use of technology and agricultural practices is often associated with increased production. This improvement not only improves the quality of the rubber produced, but also allows the rubber to be sold at a higher price on the market.

Farmers can improve their overall welfare thanks to prices Which profitable and income Which generated from production rubber. Farmers can increase infrastructure agriculture they with invest on modern equipment and improve storage facilities, so that their income increases.

In addition, farming families can set up side businesses or get involved in activity economy other Because stability And growth income them, thereby providing a significant sense of financial security. In summary, the economic conditions of rubber producers in Ranto Jior Village have improved rapidly thanks to collaborative efforts on rubber prices, rubber production and income

## CONCLUSION

Based on results study Which has done about influence Price, Rubber Production And Income to welfare farmer rubber in Village Ranto Jior , so The following conclusion can be drawn : Prices have a significant positive influence on the welfare of rubber farmers in Ranto Jior Village . The results of the Price to Welfare test show a significance value of 0.000 (smaller than 5% or 0.05) with a t value as big as 11,015. Production Rubber Influential Positive Significant To Welfare of Rubber Farmers in Ranto Jior Village . The test results for Rubber Production on Welfare show a significance value of 0.022 (smaller than 5% or 0.05) with a t value as big as 2,327. Income Influential Positive Significant To Welfare Rubber Farmers in Ranto Jior Village . The results of the Income to Welfare test show a significance value of 0.000 (smaller than 5% or 0.05) with a t value of 5.919. Rubber Production Prices and Income together or simultaneously influence the Welfare of Rubber Farmers in Ranto Jior Village. Based on the research results, it is known that the significance value in the F test is  $0.000 < 0.05$ .

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