

## Rubber Plant in the Social - Economic Process of Binh Phuoc Province (1997 - 2022) – Situation and Solutions



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**ABSTRACT:** The study was carried out using historical methods to generalize the process of introduction and development of rubber trees in Binh Phuoc, learn about the history of formation, the origin of rubber trees as well as the origin of rubber trees. linkage between rubber growers in the area. From there, analyze and evaluate advantages and disadvantages of smallholder farmers in the process of growing and producing rubber; describe the current situation of rubber latex prices under the influence of the world market in order to analyze and offer some solutions to contribute to promoting sustainable linkages, meeting new regulations and trends of the market. domestic and export towards sustainable production of rubber plantation and exploitation by local smallholder farmers. Research results show that the cultivation of rubber trees in Binh Phuoc province brings high economic efficiency, changing the economic and social life of Binh Phuoc province.

**KEYWORDS:** Binh Phuoc; rubber tree; Binh Phuoc agriculture; current situation; solutions.

### 1. MAKE A PROBLEM

Rubber trees are present on the basalt red land from the beginning of the twentieth century and become a tree associated with the history of developing this land. It can be said that, formerly the golden age of rubber trees because rubber export price continued to increase, rubber has become a crop that brings high income without any match. In addition to economic benefits, the development of rubber trees also contributes to building and expanding new economic areas, creating jobs for millions of workers, contributing to poverty reduction, bringing clear efficiency. socially. It can be said that rubber trees are becoming a key crop in poverty reduction in Binh Phuoc, because no crops in Binh Phuoc have speed and bring economic efficiency as fast as rubber trees. Economic efficiency from rubber trees compared to other crops is higher, so the growth of rubber trees in recent years in Binh Phuoc has contributed significantly to the economic development of this locality. , helping many farmers escape poverty and become rich households in the locality. In Binh Phuoc, there are conditions for topography and soil of the province in accordance with the conditions for developing rubber trees. Over the past years, the strong price of rubber in the market has affected the transition from other crops to rubber trees increased sharply. In 2005, the rubber area in Binh Phuoc was only about 99,179 ha to 2013 rubber area of the province increased to more than 230,000 ha, more than 70% for exploitation, output of over 269,000 tons/year. (N Le, 2015, P70-73). The evaluation of the rubber industry, the current price of latex is not really stable because it depends heavily on the increase and decrease of world oil prices and the increase in latex exploitation in rubber export countries. Currently, the proposal of solutions to develop rubber trees to improve production and quality to meet the needs of the market is very necessary and urgent work. In the context of the current latex price is not really stable because it depends heavily on the increase and decrease of world oil prices and the increase in latex exploitation in rubber export countries.

### 2. RESEARCH CONTENT AND RESULTS

#### 2.1 Correct rubber trees in Binh Phuoc province

##### 2.1.1. The introduction of rubber trees into Binh Phuoc

Rubber trees are introduced to our country quite early and are tested in many places. In 1878, when the pharmacist Raoul planted in Saigon Botanical Garden 2,000 rubber trees, the new rubber planting was considered to be officially started in Vietnam. However, rubber actually planted successfully was in 1892 at Ong Yun garden (Ben Cat, Binh Duong today). (Tran, 1979, Ward 6). Binh Phuoc land in the first colonial exploitation process, French capitalists focused on investing in reclamation to develop rubber and sugarcane plantations, of which rubber is mainly. In 1908, Terres Rouges Company (Terres Rouges)

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reclaimed the first rubber plantation in Xa Trach village, Hon Quan district (Thanh Binh commune, Hon Quan district today). This is the earliest rubber plantation established in Binh Phuoc. Rubber trees have been planted in Binh Phuoc since 1982, since 1993, the new rubber model was implemented because at this time, people were aware of the effect of rubber trees and had the support of 327 capital. of the program "Land green, bare hills" lending without interest. The area of rubber trees is concentrated in Loc Ninh, Bu Dop, Phu Rieng, Dong Phu and Hon Quan districts; Binh Long and Phuoc Long today. However, due to small capital, only 40-50% of investment processes, the majority of poor people have no capital to supplement, the small rubber garden tends to decline and in 1997, the capital source 327 For rubber growing no more, the small rubber model is interrupted. By 2000, thanks to the project of agricultural diversification in the 2000-2006 period, the small rubber model began to develop. The model of developing rubber trees on the land owned by farmers, individuals and types of private enterprises, organization participating in rubber planting, production development area usually a few hectares A few dozen hectares. This policy is implemented in Binh Long, Loc Ninh, Dong Xoai and Hon Quan districts. This policy was born as a stream of birth when new, everywhere, farmers raced to explore the wild hilly land to grow rubber. After only a few years of the hills of the Tranh grass were replaced with the immense green of rubber trees. Not only reclaiming new land, arable land areas are being grown by farmers with crops, short and other long -term industrial crops, which are also transferred to rubber. It must be said that the time when planting rubber in Binh Phuoc has developed the strongest starting from the end of 1999, after the area of pepper, cashew and other crops have not been expanded and increased prices. Perhaps that is why the Binh Phuoc farmer has shifted to focus on developing rubber trees. According to statistics, Binh Phuoc is the locality with the largest rubber tree area in the country with more than 230,000 ha, of which more than 60% of the area of state companies, the rest of households. Of the total area of over 230,000 ha, more than 70% for exploitation, output of over 269,000 tons/year. The average yield of nearly 1.9 tons/ha, of which state -owned enterprises own more than 90 thousand hectares, the remaining rubber of private enterprises and Tieu Dien. (Le & Giang, 2015, P69-73). Compare rubber productivity in Binh Phuoc higher than 5-6 quintals/ha compared to rubber average in the Central and Central Highlands. This is also a testament to the production - trading of rubber in Binh Phuoc is still much better than other localities. According to the statistics of the status of rubber development in the period of 1997-2013 as follows:

**Table 1: Area, productivity, rubber production in Binh Phuoc province**

| Year | Area (ha) | Area for products (ha) | Output (tons) | Productivity (weight/ha) |
|------|-----------|------------------------|---------------|--------------------------|
| 1997 | 77.670    | 38.303                 | 36.277        | 9,47                     |
| 1998 | 82.159    | 42.816                 | 46.727        | 10,91                    |
| 1999 | 84.319    | 44.990                 | 54.089        | 12,02                    |
| 2000 | 86.961    | 51.162                 | 67.000        | 13,10                    |
| 2001 | 84.057    | 52.200                 | 68.891        | 13,20                    |
| 2002 | 88.327    | 60.913                 | 71.716        | 11,77                    |
| 2003 | 88.738    | 67.195                 | 81.117        | 12,07                    |
| 2004 | 90.641    | 72.804                 | 92.505        | 12,71                    |
| 2005 | 99.178    | 77.489                 | 110.562       | 14,27                    |
| 2006 | 110.562   | 82.445                 | 131.386       | 15,94                    |
| 2007 | 118.151   | 84.194                 | 147.520       | 17,52                    |
| 2008 | 133.809   | 86.598                 | 160.564       | 18,54                    |
| 2009 | 144.024   | 91.143                 | 172.911       | 18,97                    |
| 2010 | 164.179   | 98.262                 | 191.837       | 19,52                    |
| 2011 | 203.427   | 110.873                | 218.606       | 19,72                    |
| 2012 | 223.134   | 124.400                | 234.163       | 18,82                    |
| 2013 | 232.051   | 142.981                | 264.902       | 18,53                    |

**Source:** Socio -Phuoc socio -economic statistics in the period of 1996 - 2013, pp.72

Rubber production continuously increased over the years, which shows that the location of rubber trees in the province is very important in local economic development in recent years. In 2006, the price of rubber soared and highly profitable made many people rush into rubber. By this time, some rubber areas in the province have started to harvest, the quality of latex is guaranteed. This is something that can be affirmed that rubber trees are implemented in the province's area is very good development and have many prospects and directions in the local economic development goals. Rubber prices increased,

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farmers in Binh Phuoc did not regret the cashew garden and other crops to grow rubber. As a result, the rubber area has increased sharply between 2009 and 2011. The rubber area has increased continuously in the past 5 years, of which the sharp increase in the period 2009-2011 is the time when the price of latex and the demand for natural rubber in the world increased sharply. (Tran, 2018, P6-7). Besides, people's awareness about the value of rubber trees are increasingly focused, so the rubber tree area increases rapidly. According to the rubber area statistics in the province in 2006 was 110,562 ha, in 2011 was 164,179 ha. In which, the rubber area has been put into operation of 16,855 ha. Rubber production also increased significantly during this period, in 2006 the output was 82,445 tons, until 110,873 tons. The average growth rate of rubber area in the area in the past 5 years is about 6% increased by about 4,000 hectares concentrated in Binh Long, Loc Ninh and Dong Xoai districts. The introduction of rubber trees into the farming area is a right direction in the province's economic development strategy. In addition to exploiting all the potential strengths in the hilly area, it also solves jobs and increases income for farmers. The locality has formed "rubber towns" and "rubber commune", with hundreds of billion dong revenue each year. Binh Phuoc has many bare mountains and mountains, people everywhere come here to start a business at the beginning, planting rice, planting noodles ... Since rubber trees have been grown by many other households, all other crops are less. " Thanks to the price of latex, many households can buy plows, build solid houses, fully equipped. Many farmers get rich, build an industry from rubber trees. Mr. Tung said: If compared to cashew trees, harvested from rubber in recent years is much higher, stable yield. Rubber harvested for 10 months/year, so people have money to cover their daily life, not to borrow money first and later. Planting cashew trees for many years, most people only convert 1/2-2/3 of the total area to rubber. When rubber for harvest, farmers have capital to invest in buying fertilizers to take care of cashew garden, so the productivity and output increases. Many households save more to buy fields, expand the area of crops. Typically, Mr. Ngo Van Cu's household in Tan Xuan Quarter, 20 years ago, only 2 hectares, now his family owns 7 hectares of rubber. The income from Mr. Cu and his wife has conditions to invest in 2 daughters in college. Mr. Cu confided, because he was poverty, but he had to live with his life. All thanks to rubber trees! The change in famous neighbors growing pepper of the last 3 decades of the twentieth century is the most obvious testament to the change of life thanks to rubber. These are residential areas along the streams adjacent to the rubber garden of Loc Ninh Rubber One Member Limited Company, the previous pepper villages are covered with immense green of rubber. Typically, Mr. Le Van's family walked in Ninh Thanh Quarter (Loc Ninh Town), a stable life when 1 ha of rubber intercropped in cashew garden for harvest. Now rubber price decreased by only two-thirds of 2013 but his income was still higher than 1 ha. According to the survey, the price of rubber latex on March 25, 2021 in Binh Long - Binh Phuoc ranges from 310 - 320 VND/latex degrees. Phu Rieng - Binh Phuoc rubber latex price ranges from 310 - 320 VND/ latex degrees. The price of Dong Phu rubber - Binh Phuoc ranges from 310 - 320 VND/latex degrees. Rubber price has soared to the highest level in the past 3 years, causing growers to excited. Due to the skyrocketing demand from the Chinese market, rubber prices began to increase from the middle of September 2020, from 8,000 - 9,000 VND/kg increased to 13,000 - 14,000 VND/kg of water latex. (Hoang, 2016, P.1-4).

### 2.1.2 The difficulties and challenges of the Binh Phuoc Rubber industry

Rubber is one of the mainly exported agricultural products, but is currently facing many difficulties and challenges due to the continuous decline in latex prices. The rubber industry is implementing synchronous solutions, from planting to rubber processing, wood, diversifying products ... in order to improve the competitiveness of rubber products in the domestic and international markets. The formation and development of Binh Phuoc Rubber industry, especially in the last 10-15 years, has been affected by many factors, which are especially included in the increase in the demand for natural rubber consumption of world market.

#### a. Loss of market

In fact, for many years, not only rubber products, many agricultural products have also lost the market, causing growers and export businesses to suffer. The market for rubber latex consumption is not stable, leading to low economic efficiency, so many farmers are looking for a direction to convert rubber to other crops. The first reason is that many local businesses are limited in strength, so it is difficult to expand the consumption market. Secondly, there are still many businesses that lack the determination to build a brand, making it difficult for businesses to expand the market. This leads to the competitiveness of the export market of Binh Phuoc rubber in particular and Vietnamese rubber in general less than some countries such as Thailand, Malaysia and Indonesia.

#### b. Rubber export tax

Rubber enterprises in Binh Phuoc are particularly focused on the technology of producing and planting rubber varieties mainly producing latex rubber. However, due to the consumption of latex rubber, when exports, they must pay 3% of tax (according to Circular 145/2011/TT-BTC dated October 24, 2011 of the Ministry of Finance) on the selling price, causing revenue to decrease by 3%, leading to 3%, leading to. The average price in the year decreased. While other rubber products do not have to pay

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export taxes, only centrifugal rubber latex must pay 3% of export tax. In our opinion this is unreasonable and proposed the Provincial People's Committee to propose the Ministry of Finance to consider leaving the payment tax of Ly centrifugal rubber latex.

### c. Rubber area increases sharply

By the end of 2013, rubber growing area in the whole province of Binh Phuoc reached 142,981ha compared to the plan to 2015. The reason is that the previous years due to the price of rubber led to the massive phenomenon of people. Rubber planting. Besides, the price of natural rubber has decreased sharply since the beginning of 2014 until now in the world market due to the slow growth demand while the supply increases faster, causing too high inventory, creating pressure on the thrust. Rubber prices decreased continuously from 2012 to 2014 and the need to slow down. The area of the local rubber plantation area increases in excess of the plan, leading to the development of unsustainable rubber trees, leading to the fact that farmers have to destroy rubber gardens. Present in Bung Se hamlet, Tan Thanh commune, Dong Xoai town (Binh Phuoc province), I witnessed dozens of hectares of rubber trees being harvested by people. The households we met were all pity when they had to cut down the rubber garden when only a few years ago helped them get rich. At that time, rubber trees were like "white gold" and some people became billionaires thanks to this tree. The area of newly planted rubber or business is cut down to other crops, mainly taking place in Binh Long, Loc Ninh and Bu Dop.

Many years ago, rubber trees have brought a prosperous life to the people here, but in recent years, due to the influence of the general situation, the price of rubber in the market has "slipped Brake", causing rubber growers to be low profits, even with losses, so many people cut off rubber trees (mainly small rubber) to switch to planting other crops such as noodles, sugarcane, custard apple Hope to bring higher economic efficiency.

According to many rubber farmers, the price of rubber latex purchasing is low (only about 12,000 VND/kg), along with the scarcity of tapping workers, while the pressure to repay bank loans, causing dozens of Households forced to remove adult rubber trees to switch to planting short-term trees and large timber trees for higher economic efficiency; In order to solve the livelihoods in the immediate future, combine to rotate the debt. In addition to the reason for the low price, significantly reducing income compared to previous years, there are other causes. According to local assessments, the rubber area grown on soil is not suitable or taken care of and harvested in contravention of techniques as mentioned above is not small, in the context of the current low rubber price, it will be, it will be. There are more rubber areas that have been cut into other crops. Rubber purchasing prices decreased sharply, causing the income of the planted household to decrease, the amount of money collected in is not enough to meet the types of expenses and making profits for growers. This causes many rubber growers to make the exploitation status in moderation, many places also reduce the area of rubber growing to switch to some other varieties. The main influence from oil prices, the decline of the world economy, especially the increase in rubber production in the world. Also do not forget to mention the decline in rubber consumption from the main markets such as China, Japan, or Europe. Rubber price in this stage is extremely influenced by the amount of rubber inventory in the exchanges. High yields, rubber trees in the exploitation period (high latex price period 2011 - 2012 new planting area of rubber trees increased extremely high). This period witnessed the price of rubber latex and crude oil prices are no longer as tight as in previous stages. The world market witnessed new economic crises, trade wars between China and the US. All make the rubber price maintain low. Many households now say that although rubber has reached the age of tapping, it is not harvested nor investing and caring anymore, because with the current price after deducting workers, fertilizer money, there is no profit, even hole. Currently, the average of 1 ha of rubber is well cared for about 60kg of water. Price of 6,500 - 6,700 VND/ kg of latex, each hectare after deducting tapping wages (160,000 - 170,000 VND), the left garden owner is about 200,000 VND/ time. In Binh Phuoc, the purchasing price of rubber latex decreased from 255 VND/degrees to 240 VND/degree. Many households want to cut off the rubber garden to switch to other crops. Hundreds of rubber growers still maintain moderately, even let go of no care. In the first 6 months of the year, nearly 3,000 hectares were cut down. (Hoang, 2016, P1-4)

With the above confession of rubber growers, it is clear that the cause of people cutting off the garden for several years is due to low rubber prices, while the cost of input (fertilizer, plant protection drug, The tapping) is always high, so it is less profitable, not to mention many rubber areas grown on unsuitable lands, so the economic efficiency is not as expected. It is so, although there is a large area, appropriate soil, there are not many farmers in the Southeast region affirmed to dare to "send the fate" with the small rubber, the tree used to be like "golden white" in the past. According to local assessments, the rubber area grown on soil is not suitable or taken care of and harvested in contravention of techniques as mentioned above is not small, in the context of the current low rubber price, it will be, it will be. There are more rubber areas that have been cut into other crops. Rubber purchasing prices decreased sharply, causing the income of the planted household to decrease, the amount of money collected in is not enough to meet the types of expenses and making profits for growers. This causes many rubber

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growers to make the exploitation status in moderation, many places also reduce the area of rubber growing to switch to some other varieties. According to the Department of Agriculture and Rural Development of Binh Phuoc Province, over the past time, more than 1,800 hectares of rubber were cut down to switch to planting other crops, of which mainly 1,000ha rubber. In addition, another reason for the conversion of crops is from 1992 to 1997, rubber is encouraged to grow under the Government's afforestation project, or invested by farmers, from rubber cultivation. Partly to cover the bare hilly land and get more income from latex exploitation to improve life, but due to lack of investment capital, poor skills have made rubber trees with low productivity. In addition, many rubber areas have not yet reached the age of exploitation, but seeing that the rubber is priced many farmers have gained and pressed rubber trees for the product early, so the garden quickly exhausted.

With the current difficulties and challenges in the context of the global economy, the export market is decreasing, especially in recent years, the weather is very erratic, the rubber industry has been hidden. risks. The problem is that businesses in the rubber industry need to expand investment, improve management capacity, promote production activities to improve the quality of export products to be able to compete in the international market and the market. Create branding for Vietnam's rubber market. In the long term, the growth potential of the rubber industry is still very good, so the opportunity to invest in the industry is positive. The macroeconomic factors in the country are currently optimistic signals, controlled inflation, interest rates are tending to decrease, gasoline prices in the world are tending to increase again, the demand of other countries Consumption continues to increase. This creates favorable conditions for businesses to operate in the rubber field with sustainable development conditions.

### **2.2. Solutions for developing rubber trees in Binh Phuoc province**

Developing rubber area in the area is the largest and most correct policy of the Resolution of the XIII Provincial Party Committee. With the goal of contributing to increasing local budget revenue, creating jobs for local labor force, contributing to ensuring the environment and national security. Rubber industry is facing some market difficulties, rubber prices have decreased due to global demand decline due to economic degradation in the period of 2011 - 2013, this is an influence that the rubber industry is full. The bridge encountered and Binh Phuoc was no exception. Rubber is a key economic crop of Binh Phuoc to bring high economic value to the country as well as create many jobs for people. The price of rubber latex continuously for more than 6 years has greatly affected the economy and makes it difficult for the lives of rubber growers. After many policies set out, the price of rubber latex is still low, the condition of cutting rubber continues, the workers of unemployed pus, rubber people are always in a state of worries about the price of latex. The author suggested that the agencies need to have more appropriate solutions to rescue rubber trees, helping the people feel secure to develop rubber trees, facilitating this important economic sector's maintenance and development of the economic sector of country.

#### **a. Development investment orientation has a master plan**

For rubber, the Department of Agriculture and Rural Development of the province directs local rubber to grow rubber and specialized units to review and adjust appropriately for sustainable rubber development. With rubber gardens developed outside the planning area or in unsuitable lands, poor garden quality, so people switch to other purposes or to other crops that are encouraged and supported by the State. aid. Depending on the conditions of each region and each place, the appropriate measures can contribute to extending the business time, increasing income and increasing the efficiency of rubber growers, especially the small rubber. The managing branches and authorities of Binh Phuoc province guide people to avoid spontaneous production investment, leading to an imbalance of crop structure.

#### **b. Improve the quality of rubber latex**

The problem of pus inputs of units in Binh Phuoc in recent years is ominous for natural rubber consumptions when coming to learn the market here. However, this situation has been significantly improved in recent times, especially from the beginning of 2018 until now all companies in the area have begun to pay more attention to the quality and volume of pus raw material. At the garden. The purchasing units must organize well the management and focus on the quality of raw pus, well manage the cleaning of latex harvesting tools according to TCCS 111: 2016 of VRG. Thereby the quality of purulent material received at the factory has been significantly improved, the input pus is cleaned in the garden. Seriously overcome the limitations and exist in the collection of clean pus. At the same time, in the processing, it is necessary to invest in essential infrastructure for processing plants to meet the requirements of the inspection team. (Phan, 2020, P5-6)

#### **c. Expand markets**

Local authorities need to create favorable conditions for the Rubber Industry Association to export markets, as well as build a stable product consumption market. The province's agricultural sector must coordinate with relevant units to build trademarks and expand market promotion. In order to develop sustainably in the future, the Binh Phuoc rubber industry needs to have effective shifting steps to restructure the supply chain, from focusing on exporting raw products, to valuable products. high and

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developed the domestic market. At the same time, it is necessary to collect and build a complete database, regularly update information in the supply chain and market needs. Share with stakeholders to have a basis for assessing the situation and proposing appropriate solutions for sustainable development, reducing risks. (Vuong, 2000, P.3)

### d. Solution of scientific and technical progress

Currently, the labor source, especially the area of small rubber, in remote areas, has not complied with techniques. In some places, the manpower tapping rubber is also a difficult issue, difficult to attract young workers due to competition with other industries. Therefore, it is necessary to apply technical measures in the stages of care, fertilizer, exploitation to improve productivity, reduce investment costs, contribute to increasing production value through strengthening guiding people Planting, tending, tapping rubber properly. Encourage models to intercrop agricultural forestry combined with rubber trees to increase income. A number of other measures such as planting carpets, green gardens in the 1st, 2nd year have limited soil erosion, improving the fertility and increasing the quality of garden. Solutions to build drainage ditches for rubber gardens combined with multi - purpose holes have been applied over hundreds of thousands of hau ha from the Northern mountainous to the Southeast.

### e. Intercropping rubber soup with other crops

Rubber has the ability to intercrop with other crops (cashews, cassava, sweet potatoes, chili ...), and combine breeding, help increase income, reduce risks when prices fluctuate and maintain multiple Biological form. In order to raise income on the unit area for workers in recent years, the model of intercropping noodles under the canopy of rubber forest in Hon Quan, Binh Long, Bu Dop, Dong Xoai brings economic efficiency, without affecting the growth of rubber development. This is a long-term effective measure because rubber trees are at least 5-6 years of industrial crops for latex. Increasing cultivation both produce income while waiting for latex for latex can use the maximum land area.

## 3. CONCLUSION

Binh Phuoc province has many potentials and opportunities for developing rubber trees with very favorable natural conditions (land, climate, ...) people with long -term experience planting rubber trees. Is an important basis for forming and developing the rubber tree economy in Binh Phuoc province. With the available potentials very convenient, if the province has appropriate development solutions and the interest of the relevant authorities, Binh Phuoc province will become a rubber tree economic zone. The largest in the country, bringing economic benefits to people, contributing positively to the local socio -economic development. Economic efficiency from rubber trees has changed the face of the countryside and improving the income for farmers' lives, these are practical bases to confirm the direction of continuing planting and economic development rubber tree.

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