



Potential and Prospectus in Agricultural Development of Lai Chau Province, Vietnam

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ABSTRACT

Lai Chau province has many potentialities in agricultural development such as: climate, soil, diverse topography, support policies of the Government, locality, long tradition of farming...Period 2016 - 2020, the growth rate of the agricultural sector will maintain from 5-6%, the food production is increase, Some dominant crops of the province are being invested for development: tea, medicinal plants, specialty rice...However, the level of deep processing for agricultural products is still low, so the value of goods is not high, the products are mainly consumed in the domestic market, the penetration into supermarkets or export is still limited...Therefore, building a suitable agricultural development orientation will help farmers, businesses and Lai Chau province government to have specific solutions in the future to bring high-tech agriculture becomes a key economic direction of the province.

Keywords: Agriculture, agricultural products, values, potentials, Lai Chau

INTRODUCTION

Lai Chau is the northwestern province of Vietnam, with an area of 9,068.79 km² of which the land used for agricultural production is 84,209.3 ha. With many diverse topographical features such as valleys, low hills, forests, high mountains, many big rivers...Lai Chau province has many conditions in agricultural development, especially endemic crops. In the past 5 years, with many policies in agricultural development of Lai Chau province such as: planning of planting areas, supplying seeds, farming techniques, supporting procedures and capital for agricultural production and processing enterprises. At the same time, with the active participation of the farmer, agricultural enterprises, agriculture's Lai Chau prospered with the increase in productivity and value of agricultural products, some products were present at many supermarkets and reaching the world markets such as tea, Seng Cu rice, banana, medicinal plants... During the research process, through the secondary data, the authors have analyzed and evaluated the situation of agricultural development of Lai Chau in the period 2015 - 2020. The authors found that, despite the level the growth rate of agriculture in Lai Chau province has had many achievements

but compared with the existing potentials, the development speed is not adequate. Therefore, the article focuses on assessing the existing potential of the agricultural sector, perceptions and expectations of the people in the province for the future agricultural development, thereby suggesting a number of long-term options in order to increase the contribution of agriculture in the economic structure of Lai Chau province, improve the quality and value of agricultural products, so that farmers' income increases.

MATERIALS AND METHODOLOGY

THE METHOD OF DATA COLLECTION

- Collection of secondary data: including documents, production planning reports, production projects, preliminary and final reports of the People's Committees of province and districts, the Department of Agriculture and Agricultural Development, Department of Statistic in Lai Chau province were announced; Collect documents and data from research projects and related websites...

-Collect primary data

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+ Subjects, investigation methods and survey samples: surveyed by random sampling method, surveyed 3 subjects using prepared form:

- Households in 7 districts of Lai Chau province - 700 surveys.
- The head of the household, the processing establishments, and the agricultural enterprises Lai Chau province - 150 surveys.
- Leaders of specialized divisions and departments at the People's Committees of province and districts in Lai Chau province- 152 surveys.

+ Content of the survey: survey respondents about their prospects, potentials and expectations for the agricultural development of Lai Chau province in the future

METHODS OF PROCESSING AND ANALYZING DATA

General statistical method: Synthesize the data on the contents of production, processing, consumption, environment and chain of agricultural products in Lai Chau province. The data are used to synthesize and evaluate each agricultural product over the years, according to production development stages.

Method of comparison: Based on the data collected through the contents to be researched, comparing changes over the years, between reality with the set target, the participation of actors chain of agricultural products. This contributes to a more comprehensive assessment of the research problem.

Qualitative analysis method: using the results from the group questionnaire, the authors will analyze the potentials in agricultural development of Lai Chau province and people's expectations for the level of agricultural growth during the period. From then on, building a number of plans to bring modern agriculture with many endemic agricultural products to be the main development direction of the locality.

RESULT AND DISSUSSION

RESULT OF AGRICULTURAL DEVELOPMENT IN LAI CHAU PROVINCE IN THE PERIOD 2016 - 2020

Agricultural development in Lai Chau province has been paid attention and invested in through supportive policies, scale expansion planning, consumption support, and production development. Along with the supports from the central budget such as Decree 210/2013/ND-CP dated December 19, 2013 of the Government on policies to encourage enterprises to invest in agriculture and rural areas, the target program country sustainable poverty reduction (program 30a, 135). Lai Chau province has issued and implemented many policies to support production development such as: Policy of converting land to planting rubber trees; Policies for developing high-quality tea areas; Policy for developing cinnamon; Policy for the development of special apple; Policy to support fruit tree development; Support for livestock development...With many supporting capital sources, including: central budget capital, provincial budget has supported agricultural production in the 2016-2020 period, reaching about 2.602,563 billion VND.

The economic structure of the industry has shifted positively, the growth rate of the agricultural sector has been fairly good,

the production value increased on average 5-6% / year. The cultivated area of food crops has increased every year; People have focused on investing in intensive farming, so crop productivity is increased...Food security is guaranteed and there is a part of agricultural products sold outside the province.

To quickly develop high-quality concentrated tea areas linking the development of raw material areas with the construction of processing factories. Plant structure has changed positively in the direction of promoting advantages, bringing high-value varieties into production, people have paid more attention to investing in intensive farming, increasing productivity and quality. By 2020, the output of some valuable agricultural products of the province includes: quality rice area reaching 3,021 hectares, the output will reach 15,105 tons; the tea area is 6,995 hectares with an output of 30,860 tons of fresh tea bud; macadamia trees are 2,704 ha, cinnamon trees reach 6,356 ha.

The cooperative and cooperative economy develops rapidly in both quantity and quality. The role of the cooperative is increasingly strengthened and confirmed in the socio-economic development of the province. Currently, the province has 91 businesses and cooperatives operating in the agricultural sector.

However, the achieved results are not commensurate with the local potential:

Agricultural production of goods is underdeveloped, small in scale, does not yet have key products, linking the chain of agricultural commodity production is not yet developed, application of agricultural production processes is still very limited.

Valuable agricultural products and brands have not been formed in the domestic and international markets, and the competitiveness of agricultural products remains low. Agricultural enterprises and cooperatives account for a small proportion, so the level of diversification of agricultural products is low, not improving the value of products.

Trademark registration, branding and granting of planting area codes are still few. Currently, there are 08 certified products for trademarks, 01 product (Seng Cu rice in Than Uyen) with geographical indication, product barcode registration, banana trees in some concentrated banana growing areas (Phong Tho, Sin Ho) have been given a planting area code.

ANALYSIS OF POTENTIALS IN THE DEVELOPMENT OF CONSTRUCTION AND AGRICULTURAL PRODUCT DEVELOPMENT IN LAI CHAU PROVINCE

During the investigation, the authors synthesized and found that there are 3 main potential groups according to the respondents who consider to have the main influence on agricultural development of the province, including: Natural conditions, Culture traditional agricultural chemistry, Agricultural production development policy and infrastructure.

POTENTIAL FROM NATURAL CONDITIONS

With the advantage of diverse terrain, rich soil with many different types of land- this is the advantage. to develop agricultural and forestry trees of the province such as: afforestation, food crops, vegetables, and especially favorable to

the development of a number of industrial crops with high economic value, such as tea, herbal fruit, macadamia and temperate fruit trees ...

The favorable climate is very suitable for the development of a variety of crops and animals with high economic value. Lai Chau province has a neutral and temperate climate, not affected by the dry Lao wind like the provinces bordering Laos, without drizzle and drizzle like the Northern Delta, some highland areas over 1,200 m has a cool year round climate.

The system of dense rivers and streams belongs to the system of Song Da, Nam Na and Nam Mu rivers. In parallel with the investment in large hydroelectric projects, especially the system of hydropower reservoirs with large capacity such as hydroelectricity: Son La (capacity 9.6 billion m³ of water), Lai Chau (capacity 1, 25 billion m³ of water), Huoi Quang (capacity of 185 million m³ of water), Ban Chat (capacity of 2.1 billion m³ of water).

POTENTIAL FROM TRADITIONAL AGRICULTURAL CULTURES

Potential in food production: in the province, large sample fields such as Muong Than field, Than Uyen district are formed; Binh Lu, Tam Duong district; Muong Khoa, Tan Uyen district; Noong Heo, Sin Ho district with an area of thousands of hectares, can grow and process high quality rice with specialty rice varieties such as San Cu, Khau Ky ... with an output of over 10,000 tons / year.

Potential in tea tree development: the whole province of Lai Chau currently has nearly 3,410 ha, mainly concentrated in Tan Uyen, Tam Duong and Lai Chau city with 3 factories and over 100 production and processing establishments.

Potential in forest development: Lai Chau also has diversified and rich forest resources. The whole province currently has 434,521 hectares of forested land, with a diversified vegetation system, especially soil and climate suitable for many types of high-value forest products such as grinding, tau, po mu, cinnamon, and special apple..

Potential in developing precious medicinal plants: some highland districts such as Sin Ho and Muong Te have a cool climate all year round and have a large area of primary forest, so it is

POTENTIAL IN POLICY AND INFRASTRUCTURE FOR AGRICULTURAL PRODUCTION DEVELOPMENT

From the policies of the Government in the agricultural and high-tech agriculture development, leaders of Lai Chau province have issued many resolutions and guiding documents related to agricultural development, seed support, fertilizer, technology, and capital for localities to create specialty products with advantages such as: Resolution No. 13/2019 / NQ-HDND dated July 23, 2019 of the Provincial People's Council, providing policies to support the association of production and consumption of agricultural products in the province; Decision 1446 / QD - UBND dated November 5, 2019 and 1447 / QD - People's Committee on important products and products to encourage and prioritize support to link with production and

product consumption in Lai province Chau; Decision No. 29 / QD-UBND dated 14/01/2020 of the Provincial People's Committee approving the Project to develop a number of medicinal plants in the period 2020 - 2025, with a vision to 2030 in Lai Chau province; ...

Results from primary data

Conducting interviews with 03 groups of subjects in Lai Chau province, the authors found that the respondents had quite similar results in assessing the potential impact on agricultural development of the province. The results are shown in Table 1 as follows:

Table 1: Evaluation of potentials and prospects for the development of agricultural product chains in Lai Chau province

Contents	Household	Businesses, households purchasing	Managers
1. Natural conditions	100	100	100
2. Traditional agricultural culture	85	75	80
3. Policy and infrastructure for agricultural production development	80	95	100
- Policy supporting agricultural development	100	100	100
- Traffic system	90	95	100
- Hydropower system	70	80	90
- Labor resources	90	85	90
- Diversity in the forms of agricultural production, processing and consumption	85	90	90

(Source: Compiled from survey questionnaire)

100% of respondents of 3 groups of subjects agreed that natural conditions are factors that are likely to help develop agricultural commodity chains. With the advantages of climate, soil, water resources ... has helped the province's agriculture to be diverse and characteristic for crops in different regions such as banana (Phong Tho), tea (Tan Uyen, Tam Duong ...), medicinal plants (Sin Ho, Muong Te), rice (Than Uyen, Tan Uyen ...) ...

Potential Traditional agricultural culture is considered by more than 75% of the respondents that this is the potential to help develop the value chain of agricultural products. In which, the households with the highest rating reached 85%/total respondents, followed by the group of managers reaching 80%/the total number of respondents and the group of enterprises and purchasing households reached 75%/total number of respondents.

Policy and infrastructure for agricultural production development are also chosen by the majority of respondents as the potential to help develop the value chain with the following results: 80% for households, 95% for households group of enterprises, purchasing households, 100% of groups of managers. In this content, the respondents gave 5 main groups, including: Policies to support agricultural development; Traffic system; Hydropower system; Labor resources; Diversity in the forms of organization of agricultural production, processing and consumption with a level of consent of 70% or more of respondents.

With the potentials to build and develop the value chain of agricultural products of Lai Chau province with many opportunities to promote in the future, when asked about the prospects of agricultural product consumption in the province, the target groups all said they believe in the possibility of developing and expanding market for Lai Chau agricultural products in the future. Table 2, over 80% of the respondents realize that in the future the main potential customer group will be customers outside the province. Thanks to the incentives in the policies to attract businesses, promote product promotion and invest in infrastructure, Lai Chau agricultural products will be known and favored by many consumers across the country, especially the typical local agricultural products. At the same time, businesses and collectors also boldly focused on exporting goods to some markets such as China, Taiwan, Russia... with key products such as tea, medicinal plants, rice...

Table 2: Outlook for agricultural product consumption market in Lai Chau province

Contents	Household	Businesses, households purchasing	Managers
1. Potential customers			
- In the province	70	30	40
- Out of the province	80	100	90
2. Potential market			
- Domestic	100	100	100
- Export	25	50	40

Orientation in agricultural development in the coming time

In the coming time, 100% of respondents feel that it is necessary to expand agricultural production in different ways such as: increase in output, production equipment, labor ... At the same time, realize that Increasing the level of linkages between stakeholders will promote agricultural production, increase the value of agricultural products. The highest proportion of respondents choosing the plan to develop agricultural enterprises, because businesses can manage product quality, process and consume in the most active way, thereby bringing efficiency. the biggest fruit in sustainable agricultural development. Next is a cooperative model with the rate of choice between 15-30% depending on the respondents. Combining the above economic sectors is the cooperation linkage in each stage of the value chain, which is selected in the range of 10-15%. The remaining 20% is for other members including: cooperative group; farm; family.

Table 3: Orientation of agricultural production association in Lai Chau province

Contents	Household	Businesses, households purchasing	Managers
1. Increase the level of production integration along the value chain	40	100	100
2. Expand production scale	100	100	100
- Increase collection output	20	25	23
- Increase investment in equipment	35	45	40
- Increase working capital investment	30	25	27
- Increase labor scale	15	5	10
3. The main economic component in enhancing the value of agricultural products			
- Enterprise	35	65	50
- Cooperative	30	15	20

- Cooperation group	7	3	5
- Cooperation group	8	5	10
- Farm	5	2	5
- Family	15	10	10
- Combining the economic components above	35	65	50

From there, the authors suggest a number of options for the development of agricultural products in Lai Chau province in the coming time as follows

Diversify agricultural products

Development of key products: Towards the in-depth development of national key products, provincial products and local products.

Development of agriculture in potential areas: It is necessary to plan production areas with favorable conditions and the ability to plant typical crops to form large-scale commodities, associated with the regional strengths in high quality agriculture, clean technology and high added value...

Developing commodity value chains

The first, developing agricultural products towards the direction of high technology application; sustainable development associates production with processing

Secondly, To develop agricultural products on the basis of exploiting the advantages of each agro-ecological region. To build and develop brands of local "specialties" or natural advantages to develop regional brands (such as Cong Cu rice, Co Giang glutinous rice, Da river fish, Sin Ho medicinal herbs, tea...).

Thirdly, the planning for the development of agricultural products of the province goes hand in hand with the investment and restructuring of crops and animals; encourage land accumulation to form large sample fields.

Fourthly, to encourage all economic sectors and investors inside and outside the province to invest in developing agricultural products in key regions. To focus on production areas and stabilize the product supply source as a premise for the processing industry.

The last, Develop diversified forms of agricultural organization and agricultural product transactions. Renovating the organizational model and management modes of state agricultural enterprises; consolidating the development of cooperatives and farmers' cooperative economic groups; development of large-scale commodity farms; encourage the development of value chain tissue with the key role of processing and consuming enterprises.

CONCLUSION

With a province facing many difficulties like Lai Chau, agricultural development is still the main direction in the province's economic growth in the coming time. However, development should focus not only on increasing output, but also on increasing the value of crops, investing in deep processing of agricultural products ... thus, will help agriculture develop sustainably. To do that, the province, districts, businesses and farmers need to focus on a number of issues as follows:

Improve the quality of agricultural products

Improving the quality of plant and animal breeds: Coordinating with other units to research and transfer new, disease-free, high-yield and high-quality crop and animal varieties.

Organize training courses and increase the application of technical advances to improve productivity and quality of agricultural products: organize training for farmers on modern agricultural production processes; to intensify the application of scientific and technological advances to production to improve the quality of agricultural products.

Innovating technology, improving processing capacity: using high technology in product preservation and packaging such as vacuum machines, incubators, packaging machines to improve product quality; supporting businesses and cooperatives to invest in building, renovating and upgrading technology lines; to invest in modern equipment and equipment for agricultural production and processing.

Branding, developing the product consumption market

Branding, trademarks for products: building, managing and using "geographical indications" for specialty products originating from Lai Chau; building a set of brand formats: logo, label, slogan, flyer, website of agricultural products; design, packaging modern, safe, suitable for consumer tastes and friendly with the environment.

Promoting trade promotion activities, participating in and expanding markets: expanding consumption markets through many different forms of sales; connecting product markets; promote product brand...

Complete the infrastructure system for the development of value chains of agricultural products

Improve the quality of planning construction and effectively implement sectoral and sectoral plans.

Innovating the content and methods of investment in agriculture and rural areas in the direction of increasing the rate of investment capital for the agricultural product processing industry and rural services, building and upgrading rural infrastructure, hunger eradication, poverty reduction.

Build and upgrade the system of rural roads, inland roads.

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