#### CHEETER V

## POLICIES AND BEASEBEE THAT DAIRY INDUSTRY DEVELOPMENT

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# 5-1 Present Situation

Today the Royal That Government considers the dairy industry an important section of the existing industries in Thailand. Specifically, it considers the dairy farms as a major branch of Thai agriculture. Secrement policy is to assist, promote, and guide dairy farms as a number of ways, some of which are mentioned in the National Secondaic and Social "Development Plans. Without such Government concern, the dairy farms would not have developed as they have. This is so mainly because dairy farms are foreign to Thai farmers.

However, the present dairy policy is very weak when compared to other agricultural policies. A complete dairy policy must thus be proposed by this etudy if dairy industry development is to be accomplished to any great extent. But before embarking, it may be useful to mention many efforts already mode.

As studied, the efforts to promote local dairy farming have been made only by the Covernment. They are the establishment of demonstration dairy farms, restriction of foreign dairy product competition, exemption of dairy machinery and equipment from customs taxes, establishment of self-help land settlements for dairy farming, the establishment of livestock stations, the establishment of co-operative dairies, and miscellaneous others. As to the firstmeasure, the Ministry of Agriculture and Co-operative, with the assistance of the large Danish Government, jointly established the Dairy Farming Formation Organization of Thailand 1)

<sup>1)</sup> Formerly: the Thai-Danish Fairy Farm and Training Centre, This name was changed in 1971 according to the royal decree concerned.

at Muaglek, Saraburi, in 1962 to conduct experiment8 and research into dairy farming in order to draw conclusions as to the feasibility of dairy farming in Thailand. They explored the possibility of training Thai farmer8 and agricultural technicians in dairy farming. The experimental station has also functioned as a dairy demonstration farm for the farmers, dairy processors, and others to study various aspects of the industry. Now the Organization is establishing a modern dairy plant of medium size for processing milk to supply the local market.

In addition, the Ministry, with technical assistance of the Federal Republic of Germany, has established another demonstration dairy farm at Chiengmai in the North of Thailand, namely, the Thai-German Dairy Farm, in most part for the same purposes as mentioned above. In the opinion of Danish and German scientists, successful dairy farming is possible in this country.

Another measure to promote local dairy farming the Government's reservation of land areas in Saraburi for a permanent rettlement of Thai farmers, who have already undergone training at the Dairy Farm Promotion of Thailand and decided to be permanent dairy farmers. Later, Self-Relp Land Settlement communities were set up In these areas for dairy farming. The Government also rendered long-term agricultural credits with low Interest rates to such farmers to enable them to organize and manage their dairy farms.

The Livestock Department, under the Ministry, has set up livestock stations in various areas to improve the quality of milk and to provide veterinarian and artificial insemination services to dairy farmers. The liveatook stations also control cattle diseases and produce improved breeding stock for sale to the farmers at lor prices.,

The next measure is to restrict foreign dairy products competition. Imported dairy products compete with the local dairy products, and owing to the better quality of the import8 they are prefered by the majority of Thai consumers. They compete not on the basis of price, but rather on the basis of

quality. To encourage the local dairies, a tariff is imposed by the Government on various imports. Besides imposing this duty, the Cuatoms Department under the Ministry of Finance allow imported dairy machinery and equipments for local dairy plants to be exempted from customs taxes, as another local dairy incentive.

Two other local dairy incentives are being considered by the Government. The first is to exempt dairy farms from income taxes. The second is to exempt from sales tax those dairy plants utilizing more than 50 per cent of locally produced fresh milk as an input for the production of dried milk. These measures! will centainly lessen such dairy plants'expenditures.

The latest proposal for promoting local dairy farming is to set up a "Milk Board" to perform the following functionsr (1) regulating and controlling local nilk production, (2) improving nilk quality, (3) distributing the supply of fresh milk and dairy products to nearby markets, and (4) studying and solving of the problems of milk and dairy-products marketing.

## 5.2 Policy

4s stat4 earlier, dairy farming is a new and underdeveloped part of Thai agriculture. The Government has not launched an overall precise plicy and appropriate measures for dairy industry development. The measures presented above are incomplete because of lack of a precise policy on the part of the Government. Thus, it is necessary to formulate such a policy as a segment of the national agricultural policy for implementation purposes. In addition, the availability of such a normative policy Is indispensable for the country because it will serve not only for selection of instrument variables but also for structural changes in agriculture. Without such a policy the selection cannot be carried out successfully. It will also serve as

<sup>1)---,</sup> Tariff Sates on Imports, Royal Act of Custom Pariff Hates, 1967.

one for preparing a budget for possible annual development In the future.

#### 5.2.1 Policy Objectives

Usually, when any policy is formulated, its objectives are also developed by a policy maker. The dairy industry development policy's objectives may be aummarised as follows:

- 1) To increase the dairy farms' productivity;
- ?) To increase and maintain the dairy farmers'income;
- 3) To develop the Thai dairying to the fullest extent;
- 4)To promote dairy education and the social welfare of the dairy farmers.

Owing to the Thai dairying'e smallness and newness today, it must be enlarged to achieve ite economic potential. It must be developed to the fullest extent to contribute to agricultural development as a whole.

To achieve this purpose, the dairy farm's productivity should be increased in technical and economic efficiencies simultaneously. Technical efficiency means here the utilization of modern dairy farm processes by the dairy farmers for greater output. Economic efficiency means that the value of input utilized in the production proceed for a period of time be less than that of output produced from the utilized inputs. In other words, economic efficiency is the improvement of dairy farm production by use of minimum input for maximum output.

The dairy farmers current low income must be increased through better dairying business. That is, dairy farming must be improved and developed according to modern dairy techniques, and the marketing of milk should be organized and managed along the lines of the Danish oo-operative dairy model, Farm income must also be permanently stablished by various methods to upgrade the standard of living on farms.

Poday, social welfare is very underdeveloped in rural
Thailand, insufficient to meet the rural people's needs. It is

very difficult for them to obtain this needed service, which should be quickly developed. It should encompass all palliative, rehabilitative, and preventive measures for the purpose of assisting the rural people to function appropriately and at maximum capacity a\* a constructive unit of society.

### 5.2.2 Sesence of the Policy

In accordance with the above objectives, the overall economic policy must consist of 1)dairy farming technique improvement, 2)increase and maintainance of dairy farmers'income, 3)large dairy development, and 4)promotion of dairy education and social welfare. The folloning is the subject matter of each essential:

- 1) Dairy Farming Technique Improvement: Owing to considerable lack of modern dairy farming techniques on the part of the farmers and the low productivity of dairy farms today, the dairy farming technique improvement by the farmers and the Government must emphatically be mentioned in the policy. To make such improvement possible, financial aid to the farmers by the Government should also be mentioned in the policy, and put into practice after the policy is officially accepted.
- 2)Increase and Maintainnnce of Dairy Farmers'Income: The policy should include this essential because today'income is still low. Moreover, the income is uncertain; it fluotnates from time to time. It is thus reasonable to increase income through better dairying business and to stabilize the increasing income by the co-operative method. Financial and monetary policies, as well as international trade policy, which are consistent with the dairy policy are also essential.
- 3)Large Dairy Development: The policy must provide for great dairy industry development in Thailand, because there is now an infant dairy industry only. It should be developed to its fullest extent as a main branch of Thai agriculture, the backbone of Thailand's economy. If largely developed, it

will contribute to the increase of farm income. To achieve this purpose, all the efforts mentioned should be accomplished and expanded by the people concerned.

4)Promotion of Dairy Education and Soaial Welfare:
One main essential of the policy for Thai dairy development should be a manpower development promotion for improving the talents and skills of the agricultural population at an institution of dairy education and training. The policy should mention that It is crucial to train dairy farmers and others to be economically efficient citisene with a sense of responsibility towards dairy industry development. Social welfare promotion by the Government for the farmers should also be mentioned in the policy, to make the farmers the healthy businessmen with confidence in their Careers.

## 6.3 Measures

### 6.2.1 Introductory

How should the policy objectives be accomplished in practice? Prom an administrative point of view, this responsibility is assigned to the Minister of Agriculture and Co-operatives of Thai Government. For this responsibility, overall dairy industry development plan of operation must be used as a specific quideline for effective implimentation of the policy.

In this connection, one who plane oparationa should have broad knowledge of agricultural economics, with dairying as a major Field. He should possess knowledge of potential demand for milk and dairy products, sufficient supply of the goods, close substitution of other goods, consumers' consumption habits, and local dairy production efficiency. He must also be dairy practitioner to utilize the plan effectively.

#### 6.2.7 components of the Operating Plan

The components which make up the plan are the change of economic structural relationship, methods of improving dairy

farms technique, methods of increasing and maintaining of dairy farmers'income, procedures for developing large dairying, procedures for promoting dairy-educated social welfare, and financing.

the plan must include a change in economic structural relation—

hipe in Thai agriculture for any possible application of instrument variables, such as the control of foreign dairy products imports, higher duty on imported dairy products, and the existing dairy organizations. Another reason for the change is that the existing structural relationship is composed of self-sufficient agricultural enterprises unsuitable for the country's present economic conditions. Further, dairy farmers encounter some execution problems, such as that in milk-marketing, due mainly to the inappropriate economic structural relationship. Thus, if we rant really to develop dairy farming, the old dairy economic structural relationship should be changed for a better one, such as the following.

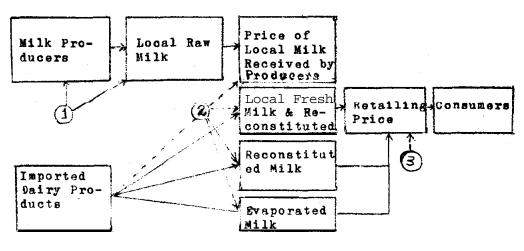


Figure 11

Thai Economic Relationship of Milk and Milk Products

<sup>1)</sup> Somnug Sriplang and Koset Manovalailow, Agricultural Segment Development (Bangkok: Division of Agricultural Esanomies, 1971)

I) means that the milk producers are organized to build a modern dairy plant under a co-operative dairy system for processed milk and dairy products.

and keeping raw milk from the producers for a short period of time, face a marketing problem, i.e., they cannot find a permanent favourable market' for selling their whole milk. Moreover, the unit price paid for their milk is low(to be mentioned later).

Reans that imported milk powder to private firms for the production of condensed milk and reconstituted milk must be controlled Strictly by the Government in order to limit its quantity to a minimum. At the same time a proportional part of local milk must be sold to the private dairy plants at a controlled price. This milk would be raw material used in the production process of the private dairy plants.

As presently established, the private dairy plants utilize the imported milk powder as their entire raw material for the mentioned production. Only a very small quantity of local milk is used for this purpose.

neans that the rotail sales of all processed milk and dairy products must be controlled by the Government in both price and hygienic aspacts.

The above-mentioned three projects should be emphasized in the Plan for the effective possible utilization of the instrument variables.

Methods of Dairy Farm Technique Improvement: In fact, dairy farm ers suffer a considerable lack of modern dairy farm techniques in many respects. Consequently, they cannot improve their dairy farming; and productivity is low. To overcome this obstacle, some methods of dairy farm technique improvement should be used by the farmers and-the government officials concerned: for instance, modern breeding, feeding, and management of dairy cows based on modern Danish principles of dairy soisnce. The principles can be introduced to the farmers by

teaching and 'publishing.

The main cause of the lack of dairy farm technique improvement is the shortage of somey capital among 'ihai farmers themselves, which shortage prevents the farmers from improving techniques. To promote the above-mentioned improvement, financial aid by the Government through the Bank for Agriculture and Agricultural Co-onoratives in Bankok should be provided to the fullest possible extent to the dairy farmers. Agricultural loans should be made to farmers at low intorest rates and repayment of loans made through on amortization plan.

Farmers'Incomes: To attain this aim in practice, other financial and monetary policies and international trade activities which may affect dairy enterprises should be consistent with domestic dairy policy. In Thailand farmers are much affected by changes in financial and economic conditions. Suring periods of deflation, the agricultural products' prices generally decrease. And the prices increase considerably during inflation, but their increase rates are smaller than those of other goods. Farmers usually produce more during such ceriods because of better prices. Consequently, the agricultural prices may rapidly decrease while the non-agricultural prices remain at higher levels.

Farmers may suffer very much from high non-apricultural prices. 1)

Therefore, the practices must opperate during the periods of inflation and deflation in order to increase and maintain the mentioned income. Por instance, during inflation financial aid for dairy production should not be rendered by the Government because it may increase dairy production. The appropriate measures instead would be quantitative control of agricultural production and limitation of agricultural credit,

Juring the deflation period programs for increasing purchasing power for consumers, extending agricultural credit,

Chairong Choochart, Agricultural Economics of Thailand (Bang-kok: Kasetsart University, 1960), pp. 262-265.

including more investment, lowering tax, increasing government expenditures, and promotion of more agricultural products consumption should be undertaken by the Government. The practice of such programs will increase the farmers'income.

Another Important measure is the areation of growing demand for milk and milk producta. One prime reason for this is that the program for increasing the income is impossible If temand is small everywhere. The demand created must also be stabilized for a long time. The farmers will receive higher income from their production. If so, the farmers will be certain to continue their production. Another measure should be the establishment of milk quality controls for good quality milk to satisfy the consumer demand. This will contribute to an increase in Income as well.

- mentioned previously, the dairy induatry must be developed into a main sector of Thai agriculture. To attain this purpose all the efforts suggested above must be continued. In additions, since the milk supply is continuously developing at the fullest extent to meet the demand, and the boost of demand for fresh milk and milk products is being continuously created, co-operative dairies organized and managed along the Danish model must be established in greater number to overcome marketing probelms And to extend the dairy economy. The Government, which has recognized the need for supporting the dairy industry, should support it more and more by promoting and providing greater incentives And extension services and facilities to individual dairy farms.
- 5) Procedures for Promoting Dairy Education and Social welfare: To achieve this objective, appropriate measures should include(1) daifarming And dairy-plant education and '2) social welfare services. Both dairy farming and dairy plant education should be established And run initially by the Ministry of Agriculture And Co-operatives through a dairy

educational institute. Vairy education must include both thearetical and practical aspects to meet the actual needs of trained and competent personnel in the dairy industry as a whole, The dairy education should be systematically organized in a form of two-year course, consisting of both dairy and related subjects. In order to be effective, dairy education should be run on the basis of the Nanish dairy education and training system. In this connection, a Danish expert on this field of economic activity should be provided. Apart from the education, some necessary social welfare services should be provided for the farm population, in appropriate forms such as programs for economic maintenance anti supporting econmic measurgs. They would assist individuals, families, groups, and communities in rural Thailand to function effectively, These activities should be performed by the Department of Public Welfare under the Ministry of Interior.

6) Financing: The financing of dairy industry development expenditures of the plan is of course a burden for the Government to carry; otherwise the policy and the plan will be a mockery. The expenditures may reach many million baht, from both domestic and external sources. The domestic sources are government revenue and domestic borrowing; the external sources are loans and grants from foreign countries. The Government must set a specific time period for the plan, with particulars of work to be done, and estimate the actual expenditures therefor, for effective future operations.