STABILISATION OF PRICES IN PLANTATION ECONOMIES: A COMPARATIVE STUDY OF THE TEA INDUSTRY IN INDIA AND THE COFFEE INDUSTRY IN BRAZIL

Dissertation submitted in partial fulfilment of the requirement for the degree of Master of Philosophy

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DECLARATION

I cortify that the dissertation entitled "Stabilisation of Prices in Plantation Economies : A Comparative Study of The Too Industry in India and the Coffee Industry in Brazil" submitted by Bishnupriya Gupta in partial fulfilment of the requirement for the degree of Master of Philosophy is a bonafide sork to the best of my knowledge and may be placed before the examiners for their consideration.

CHATOMAN

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CHAPTER I

INTRODUCTION

The criticism of commodity price stabilization was traditional—
ly made out of an immense faith in the functioning of a competitive
economic system. The competitive system was expected to direct resources into the "most efficient" channels of production through
movements of the prices of various commodities. In 1938, J.M. Keynes
erote,

"It is an outstanding fault of the competitive system that there is no sufficient incentive to the individual enterprise to store surplus stocks of materials, so as to maintain continuity of output and to average, as far as possible, periods of high and low demand. The competitive system abhors the existence of stocks, with as strong a reflex as nature abhors vacuum, because stocks yield a negative return in turms of themselves.... No radical remedy for fluctuations is possible except through measures to stablize the aggregate effective demand."

Therefore the defense of price stabilization arose by questioning the reliability of price signals, especially in the short run due
to the speculative as well as cyclical nature of many price movements.²
It was pointed out that what is not competible with the free market
is a modification of the long run trend of prices. To the extent,
short run price signals cause extreme adjustments in production and

¹ J. M. Keynes, The Politics of Government Storage of Foodstuff and raw Materials, <u>E.J.</u>, 1938.

² H.C. Wallich, Stabilization of proceeds from raw material exports, in H.C. Ellis and H.C. Wallich (ed.), Economic Development for Latin America, New York, 1761, p. 342-43.

thereby fail to reflect the long run trend in supply and demand, it is entirely legitimate to counteract them even in a free market system.

H.C. Wallich in his article, "Stabilization of proceeds from raw material exports", contradicted the very logic of theories which defend price fluctuations in terms of greater capital accumulation with incomes which are periodically higher than when they are more evenly distributed over time. Wellich points out -

"There is a considerable doubt about the implicit analysis of the savings process itself. It may be that the establishment of a higher living standard based on a temporarily high income, would cut into saving when income fells again and so lead to a lower saving over the cycle."2

Wallich argues that with large price fluctuations and the consequent instability, epopulation becomes rampant especially in the country's principal commodity. This "raw meterial mentality" narrows the investment horizon and hinders economic development.

Wallich therefore advocates a programme of commodity price stabilization for overall aconomic development in a country which is basically a primary producer.

From the arguments given by Keynes and Wallich in support of commodity price stabilization two basic propositions can be derived:

Wallich, H.C., go.cit., p. 348.

² Gaines S., "Instability of primary product prices and profits - a proposal", [.]. 1954.

³ Wallich, H.C., opecita, pp. 347-48.

- (1) Use a programme of stabilization of commodity prices to mips out short run fluctuations since these do not indicate long run trands in demand and supply.
- (2) Stabilization of prices of primary products will lead to a more balanced type of development whereas in the absence of stabilization, a strategy of expert led growth based on a single commodity makes the economy more vulnerable to external forces.

To me, these generalizations are fallacious since they do not take account of the differences in the structure of the economy of the various primary producing countries. These arguments are fallacious because they fail to analyse the differences in the structure of demand and supply of the various primary products.

It will be interesting to find out the extent to which stabilization programmes do not basically alter the long term trend and
merely help. to emouth out imbalances in the short run and under
what conditions.

Secondly, I would like to dolve desper into the relation between stabilization of commodity prices and aconomic development. The quostion that crops up immediately is shether one can establish such straight forward links and to what extent the structure of demand and supply of the commodity in question and the structure of the economy of the primary producing country under review determine the ultimate result.

The two problems are inter-related. If stabilization entificially maintains a high price level, then it would help to perpetuate the "raw material mentality" and dismantle the basis of Wallich's
argument. Therefore it is necessary to find out under what conditions
stabilization will only smooth out short term fluctuation and in this
context, an analysis of the atructure of demand and supply of the
commodity under consideration and the etructure of the economy which
produces it assumes particular importance. Any generalization made
without reference to these aspects will be open to attack.

I would like to put forward the following hypotheses -

- (a) Stabilization of prices cannot provide a permanent solution for commodities which exhibit low price and income elasticities of demand, especially when demand is concentrated in particular countries. It will merely postpone the crisis.
- (b) A commodity with low price and income electicities of demand in the export market may still benefit from a stabilization programme if there exists a large potential domestic market.
- (c) Stabilization negates its entire logic for economies dependent essentially on the export of a single commodity. In other words, stabilization of commodity prices hinders the process of development in economies dependent on a single export item, when the commodity in question exhibits low electricities of demand.

IS will investigate the problem with reference to the plantetion sector and in particular with the plantation crops tea in India and coffee in Brazil for the following reasons:

Firstly, historically the plantation crops in any economy have proved most vulnerable to price fluctuations. While price movements in such sectors have generated linkage effects in various other sectors of the economy and led to further development; a slump in prices has caused a sharp decline in that particular economic activity to the point of insignificance.

Secondly, tes and ceffes enjoy a similar structure of demand with reference to the export market, but have a difference as far as their domestic markets are concerned. Both have a limited export market dependent on social factors for domand, but the Indian tea industry enjoys the support of a domestic market.

Thirdly, the tea industry in India and the coffee industry in Braxil have totally different positions in the economy of the respective countries. Tea is among the main export items in an economy which by the First World War was no longer predominantly a primary producer. Coffee, on the other hand, was by far the largest export item not only in terms of its share in total exports but also as the chief economic activity in an economy trying to develop in terms of export—led growth.

The interest period has been chosen as the period of study to bring out the effect of continuing depression on the export sector and therefore to show how a sector, which is able to expand and lead

the economy in periods of rising prices, would react when the price trend is reversed. Secondly it is during this period that the various stabilization programmes were undertaken to counteract the effect of depression and recession of incomes.

III

In this section I will build a theoretical framework which will form the point of reference to an analysis of the stabilization pro-

The main features of the development of the world eituation in tes and coffee during the interwar period have been, first, an excessive reaction by producers to the etimulus provided by a profitable price level, and second, the feilure of the world demand to rise more than at a very moderate rate.

I will take up the second espect as the starting point of the engines.

The concept of export-led growth, which dominated the writings of economic history of the nineteenth century and the early twentieth century, was seen as a reality in a executic stage of world economic development. Historically one can aspeciate it with the period when Britain was the "workshop of the world" and the process of industrialisation in Britain set off certain forces of demand for foodstuffs and raw materials, which linked the development processes in certain

¹ FAO of the UN. Commodity Bulletin Series (1961).

other countries with the development of the British economy through an international division of labour. The economic development of the primary producers at "the periphery" not due to the international division of labour alone, but more particularly due to the rapid growth at the "centre" which transmitted to the "periphery" through a vigorous increase in the demand for primary products. D. Robertson terms trade in the mineteenth century as the "engine of growth". The assumption here is that an expansion of exports sould automatically develop the rest of the economy through backward and forward linkages.

If one looks at the statistics between 1850 and 1913, the real volume of tradm increased tenfold, twice as fast as world production. Since 1913 its expansion has fallen short of world production.

What comes out as an essential condition for the export sector to play a dynamic role in economic development is that it must enjoy the support of a continuous expansion of the international market.

To ensure this all or some of the following conditions are necessary --

- (a) Income in the importing country must be increasing;
 Not only this, the income elasticity for the commodity in ques-
- (b) The price electicity of the export commodity must be large so that the gains of technical progress or any other

¹ R. Nurkes, "Trade Theory and Davelopment Policy", in Ellis, ed., Economic Davelopment for Latin America,

² DaHa Robertson, Essays in Monetary Theory, London, 1940, p. 214.

³ R. Nurkes, <u>op.cit.</u> p. 239.

⁴ R. Nurkee, politic p. 241.

factor which leads to a decline in price can be enjoyed by the exporting country and is not appropriated by the consuming country:

- (c) Population growth;
- (d) A change in the pettern of demand in fewour of the commodity under consideration.

Now the question arises to what extent are these conditions satisfied for tea and coffee?

Tee and coffee as consumption goods are demanded on account of fixed taste patterns and occupy a small portion in consumer's budget. By fixed tasts pattern, what is implied is that it is difficult for tes to build up a market in prodominently coffee drinking areas and vice-versa. Not that such a sustitution is impossible, as can be seen from Britain's case. Britain switched her position as a coffee drinking country to the major market for tea in the world. However building up markets for begarages is an extremely difficult process and requires a rigorous advertisement campaign, which is not likely to show results in all cases. Secondly, not only is substitutability low between different types of beverages, but the response of demand to price and income changes within the identified consumers is also sluggish. In other words the price electicity and the income electicity are extremely law. Upto a certain level of income, the beverages show positive price and income electicities but thereafter become ingengitive to price and income movements. Superimposed on this there may be a tendency to shift from common tea to better quality tea ea

income increases. Therefore in developed countries the market for tea and coffee can be expected to grow only in response to population growth, urbanization and other social factors. On the other hand in the developing countries demand for beverages will be more responsive to growth in per capite income and therefore in these markets, a fall in price or a rise in income can lead to greater demand.

Table 1.1(a) gives an estimate of price and income electicities for tes and coffee in various markets.

Table 1.1(a)

Price and income electricities for coffee

Country	Period covered	Price Electicity	Income Elesticity	
USA	1920-41, 1946-48	-0.29	0,52	
Germany	1925-37, 1953-58	-0.45	0.92	
Canada	1921-35, 1953-58	-0.27	0.56	
Italy	1921-38, 1949-58	-0.61	0.72	
Argentina	1935-58	-0.26	0.62	

Source : FAO Study, Commodity Bulletin Series (1961).

Table 1.1(b)

Price and Income Electicities for Tea

Country	Period covered	Price Elesticity	Income Electicity
Britain	1920-36	0.3	0.04
India	1924-39	•	1.11 (urban) 1.047(rural)

Source: R. Stone, The Measurement of Congumer Expenditure and Behaviour in the United Kingdom, 1920-38, Cambridge 1994, p. 146.

G. Sarker, World Tee Economy.

The following table shows the behaviour of consumers in the two major markets for tes and coffee. The United States is the main consumer of coffee, absorbing about 50 per cent of the world's exports. Britain, on the other hand is the most important market for tes, consuming a similar proportion of world exports.

Table 1.2
Demand for Ten and Coffee

Country	Tes (in e	illion lbs.)	Coffee (in of 60 kg.)	1000 bage
	1930-34	1935-39	1929-33	1934-38
U.K.	442.3	443.0	301	236
U.S.A.	86.6	87.7	11,834	13039

Source : W.D. Wickiger, "Coffee, Tea and Cocoa, an Economic and Political Analysis," Stanford, 1951.

During the interwer period, total world imports of coffee showed an average rate of increase of just over 20 per cent per year. Consumption increased due to relative fall in coffee (and other food) prices and the growth of population. The growth in demand in the U.S.A. was one of the major factors contributing to the increase in world imports. However inspite of the rise in real income in the 1920s the pattern of the demand for coffee did not change. It merely grew in response to population growth and urbanisation. For an increase of 35 per cent in real incomes annual coffee consumption remained at about 12 lbs/inhabitant, although ratail prices were stable.

Let me take a look into the conditions provailing in the Indian tes industry. The following table shows the growth of demand for tes in the U_*K_* the major consumer of Indian tes.

Table 1.3

Growth of Tea Consumption in the U.K.

Year	Consumption in aillion lbs.				
1868	7.7				
1885	65.7				
1895	122,9				
1930-34	442.3				
1935-39	443.0				

Source : S.K. Besu, <u>Capital</u> and <u>Labour in the Indian Teal Industry</u>; V.D. Wickiger, <u>Coffee</u>. <u>Teal and Cocoa</u>.

f FAO Study Commodity Bulletin Series (1961).

² U.N. Economic Commission for Latin America, Report, 1951.

The British market which had exhibited spectacular growth in the late nineteenth and early twentieth century was saturated in the interest period.

Thus in the case of both tea and coffee conditions for sustained development through dependence on the export market were missing and prices came to be governed completely by supply factors. This leads to the first point I had mentioneds that the period under study was to the first point I had mentioneds that the period under study was characterized the increasing production in response to high prices maintained by support schemes. Therefore low prices resulted from over production and the consequent control schemes in an attempt to keep prices romunerative encouraged further increase in production, which in turn caused a further downward movement in prices. It was a sort of chain reaction which could not be controlled except through restriction of supply.

If prices are kept remunerative through artificial price support schemes, especially at a level which is more profitable than other sectors of production, then the producers are given all the incentive to increase production. In the case of the coffee industry in Brazil, this essentially took the form of expension of ecreege. As Celso Furtado points out, "Since there was no pressure from manpower for higher wages, the entreprensure had no interest in replacing such manpower by capital... Since every increase in productivity was transformed into profit, obviously it would always be more interesting to produce the greatest quentity possible per unit of capital and to

pay the least possible quantity of wages per unit of production. The practical consequences of this situation was that the enterpreneur was always interested in investing his new capital in the expansion of his plantations, there being no incentive for any improvement in the method of cultivation."

In the case of the Indian tea industry such of the changes in output in response to price eignals took place through regulation of plucking so that in the case of individual estates there was hardly any change in acreage under tea. However emergence of new estates and the sharp variations in sutput through plucking invariably resulted in increased production fellowing a rise in prices which started the chain resolion in the form of pressure on prices and restriction on offerings in the market.

Therefore on the one hand the plantation sector is faced with a large price elasticity of supply and on the other hand it is constant rained by low price and income elasticities of demand in the expert warksts. Given the low elasticities of demand, high price elasticity of supply manifested itself in an acute problem of over production. In the next two chapters, through an analysis of the etablication programmes adopted in Grazil's soffew industry and in India's tea industry, I shall try to bring out the differences in the effect of the etablication programmes in the two situations and probe into the conditions which led to such differences.

¹ C. Furtado, Economic Growth of Brazil, p. 178.

IV

Table 1.4 makes a comparison of the price cycles in tee and coffes in the intermer years.

Table 1.4
Price Movements in Tes and Coffee
1920-39

Year	Yea Price Rs - A - P/15°	Coffue Price U.S. Centa/15.**	Year	Tes Price 8-A-P/16*	Coffee Price US Cents/16**
1910	7-1	13,5	1925	13 - 5	22,3
1911	7 - 7	14.6	1926	12 - 3	18.7
1912	7 - 1	11.1	1927	14 - 10	23.2
1923	7 = 9	8.2	1928	12 - 4	22.1
1914	7 - 7	7.5	1929	9 - 11	13.2
1915	8 - 11	9.2	1930	9 - 4	8.7
1916	8 - 8	9.3	1931	6'-5	10.7
1917	7 - 3	7,4	1932	9 - 2	9,3
1918	8 - 0	17.9	1933	9 - 7	11.2
1919	8 - 0	12.0	1934	8 - 9	8.9
1920	5 - 1	7.2	1935	9 - 5	9.5
1921	10 - 1	10.3	1936	10 - 1	11.1
1922	13 - 3	11,5	1937	11 - 4	7.8
1923	15 - 0	16.8	1938	9 - 7	7.5
1924	15 - 11	24,5	1939	11 - 9	

Source : * Investor's India Yearbooks.

^{**} V.D. Wickizer, *Coffee, Tee and Cocoe.* An economic and political enalysis, Food Research Institute, Stanford, 1991.

Table 1.5 tries to work out the relation of price movements to production and export of the respective commodities.

Table 1.5(a)
Relation of Tea Price Movement to Production and Export

Year		Production	Export		ition (191	
	B-A-P	(million lbs)	(mill, lbs)	Price	Prodo.	Export
1919	8 = 0	377.1	389.9	102	120	131
1920	5 - 1	345.3	289.5	69	107	96
1921	10 - 1	274.3	350.1	129	86	118
1922	13 - 3	311.6	311.8	161	99	105
1923	19 - 0	375.3	345.8	191	120	116
1924	15 - 11	375.2	352.9	203	120	118
1925	13 - 5	363.5	348.5	171	116	117
1926	12 - 3	392.9	394.4	156	125	119
1927	14 - 10	390.9	380.9	189	124	128
1928	12 - 4	404.7	375.9	157	129	126
1929	9 - 11	432.8	395.4	127	138	133
1930	9 - 4	391.1	371.8	119	125	127
1931	6 - 5	394,1	371.7	82	126	125
1932	5 - 2	433.7	395.8	65	139	132
1933	9 - 7	383.7	352.1	122	122	118
1934	8 - 9	399.3	348.8	112	127	117
1935	9 - 5	394,4	352.7	120	126	118
1936	10 - 1	395.2	366.2	129	126	123
1937	11 - 4	430.2	393.6	147	137	132
1938	9 - 7	451.6	409.3	122	144	138
1939	11 - 5	463.9	• •	148	148	

Source : Investor's India Yearbook.

Table 1.5(b)
Relation of Coffee Price Movement to Production and Export

Year	Av. Price	Production	Export		tion (191	
	US cents/1b.	of 60 kg.)	(mill. bags of 60 kg.)	Price	Prodc.	Export
1919	12.0	7.5	12.9	172	42	115
1920	7.2	14.5	11.5	96	81	103
1921	10.3	12.9	12-4	137	72	111
1922	11.5	10.2	12.7	153	57	113
1923	16.8	14.9	14.5	224	83	129
1924	24.6	14.6	14.2	326	82	127
1925	22.3	15.5	13.5	297	87	120
1926	18.7	15.8	13.8	249	88	123
1927	23.2	27.1	15.1	309	151	135
1928	22.1	13.6	13.9	295	76	124
1929	13.2	28.2	14.3	176	157	128
1930	8.7	16.6	15.3	116	93	137
1931	10.7	28.3	17.9	143	158	160
1932	9.3	19.8	11.9	124	106	106
1933	11.2	29.6	15.5	149	165	138
1934	8.9	18.2	14.1	119	102	126
1935	9.5	20.9	15.3	127	117	137
1936	11-1	26.4	14-1	148	147	126
1937	7.8	23.4	12+1	104	131	108
1938	7.5	23.1	17-1	100	119	153
1939	7.2	21.9	16.4	96	122	146

Source: FAO of the UN - Commodity Bulletin Series (1961).
V.D. Wickizer, World Coffee Economy; V.D. Wickizer, Coffee,
Tea and Cocos.

4 : 1

Variations in tea prices ere much more responsive to the variations in production and export, while the variations in coffee prices
are responsive only to variations in export. Variations in production
are random and do not exhibit any definite relation either to price
variations or to variations in export.

The fector which contributes to this is the way prices are determined under the to control achamas. In the Indian tea industry, prices reflect actual movements in production since demand is more or less stable. Coffee prices on the other hand are determined by the exports offered in the international market. The movements in production are concealed through the control schemes in Grazil which required prices through the output released in the export market and not actual production. In the case of the Indian tes industry the stabilization programme does not approach the problem of declining prices through regulating the volume of exports alone, but regulates production as well.

In the next two chapters I shall elaborate on the stabilization ochames practised in the two industries - tea in India and coffee in Brazil and then move on to the analysis of these schemes.

CHAPTER 11

EXPORT ORIENTED CONTROL SYSTEM IN THE TEA INDUSTRY IN INDIA (1920 - 1939)

In this chapter I shall investigate the nature of the control scheme in the Indian tes industry and its effect on plantations in Eastern India. The important aspects of the study will be to bring out the varied impact of the schemes in the different tes growing regions in eastern India, namely, Assem, Darjeeling, Docars and Terai, Cachar and Sylhet and secondly, to analyse the causes behind the failure of the control system to bring about a long term solution to the frequently recurring price slumps.

Since the system was a product of the cyclicial movement in tea prices and the recurring of the alumps every few years, it is of interest to study the determinants of tea prices. On the supply side there is the growing output of the tea plantations in Eastern India. On the demand side on have the British market determining the consumption of Indian tea as the biggest consumer.

Since the beginning of the Indian tea industry price cycles have been very such a part of the industry's development. The first elump came in 1866 due to overproduction as a result of the rapid expansion of the industry. Prices recovered by 1867 and remained steady for the next 10 years. The second slump was in 1879 and the

third was in 1896-1904. Excess supply was the main cause. However during the period 1920-39, there were three alumps,in 1920, in 1925-1927 and then again with the onset of the Great Depression. Not only had the frequency of the alumps increased, but recovery had to be generated by artificial price support schemes. Each of the schemes sought to control the supply of tea in the British market. Prices started to recover se the supply of tea in the United Kingdom was curtailed. Demand played only a secondary role.

In the twentieth century, however, factors on the demand aids often played a determining role. This is true of the pre-1920 period and the post-1939 period. The interwar period constitutes an exception. During the First World War tee prices came to be set by the Ministry for food in Britain, which entered into contracts with the tea producers in India and in Caylon. Similarly from 1939 onwards, with the enset of the Second World War. Britain adopted the Bulk Purchase Scheme under which the British Government took over all stocks of tes in the U.K. upon which duty had not been paid and requisitioned in advance all tess due to arrive in the U.K. The system that was devised was one in which the Tea Controller for India, on behalf of the Ministry for Food in the U.K., entered into contracts with the producing estates. Each contracting estate had a separate fixed price for it. the price being the average of prices realised by the tem sold in the years 1936, 1937 and 1938 in the U.K. or tem sold with export rights in India. The price was subjected to revision if

the cost of production increased. The determination of tea prices had therefore passed on to the demand side in the post-1939 period. Similarly in the pre-1920 period the demand side had played the determining role. It was only during 1920-39 that the movements in supply regulated the movements in prices.

The sample of the study comprises 27 sterling companies and 135 rupse companies. Though the sterling companies controlled 50 per cent of the area under tes and 54 per cent of the production in 1939, the sample chosen may be considered to be representative of the industry because both flupes and sterling companies were controlled by particular menaging agents and it was the role of these agents which was more important than the place of registration of the companies. A.K. Bagchi in Private Investment in India, 1900-39, points out -

"Many plantations in India were privately owned and worked by managing agency houses or private planters in India and were not formed into Joint Stock Companies until later. Secondly, whether a company was registered in the U.K. or in India depended primarily on the convenience of the menaging agents and a Sterling registration did not necesmerily mean that much of the capital invested in the plantation was sagned outside India. Plantations were generally first opened up by a firm doing business in India or by a plenter, who would then turn to a managing agency house for working capital and for additional fixed capital. A planter might, also, open up a plantation and then sell it to a joint stock company or a managing agency house for profit. The registration of the company was often a mere formality. since most of the capital was held by the planters of the menaging agency fire and their close essociates. Most of

¹ Plantation Enquiry Commission Report, 1956.

the large managing agency houses involved in tem plantations were either firms which had grown up with the tem industry in India or which had made money in other fields and then entered into the tem business as one of their ventures."

Bagchi names Duncan Brothers & Co., Williamson Magor: and Co., Alex Lawrie and Co., Davenport and Co. as examples of the first type of concern and Andrew Yule and Co., Jardine Skinner and Co., and James Finlay and Co. as examples of the second. Appendix I gives a list of the managing agents associated with the companies which are under study.

I shall present the analysis in four sections.

Section (1) analyses the aspects of the market and production of tea relevant to the export oriented control system.

Section (2) gives a historical account of the control acheme during 1920~39.

Section (3) goes into the analysis of the effect of control schemes on the different regions and tries particularly to look into the income movements.

And lastly Section (4) sasks to locate the cause behind the failure of the control system in solving the "price-cycle" problem of the tes industry.

Section (1)

The tendency of tem prices to be governed entirely by the supply mechanism sriess out of the nature of demand and supply of this consumption cood. On the demand side, it occupies a fixed LDRAR DISS

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proportion in the consumers' budget. Upto a certain level of per capita income, the beverage shows positive price and income elasticity, but thereafter becomes insensitive to price and income movements. Superimposed on this. there may be a tendency to shift from common tos to better quality tes as income incresses. Therefore in developed countries, the market for tea can be expected to grow only in response to population growth. On the other hand, in developing countries demand for beverages will be responsive to the growth of per capita income and therefore in these markets, a fall in prices or a rise in income can lead to higher demand. An estimate of the price electicity of demand for tes in high income countries covering the period between 1924 to 1936 by E.J. Broster on the basis of time series data gives an electicity coefficient of -0.0554 for the United Kingdom. R. Stone estimated it to be -0.32 for the period 1920-38. As far as income elasticity is concerned. Broster's estimate shows that every 10 per cent increase in income leads to a 21 per cent increase in the demand for tea. Stone estimated the income elasticity to be 0.04. Similar studies for India, though not very accurate rowal higher co-efficients. An elaborate family budget enquiry, covering both urban and rural areas, estimated the income elegaticities to be 1.11 and 1.047 respectively.

f E.J. Broster, "Electicities of demand for tea and price fixing policy," <u>Review of Economic Studies</u>, Vol. VI, 1938-39, p. 169.

² R. Stone, The measurement of Consumer Expenditures and behaviour in the United Kingdom 1920-38, Vol. I, Cambridge, 1954, p. 146.

³ Oroster, op.cit., p. 169; Stone, loc.cit.

N.S. Ayenger, "Some of Engel elasticities based on National Samples Survey Date," <u>Journal of Royal Statistical Studies</u>, Vol. 13, Part 1, 1967, p. 93.

On the supply side, two particular trends are visible in the case of the tes industry. Firstly, there is a tendency to long run over production through expansion in acreage and through vise in productivity in response to periods of high prises. In particularly, Since tes crops mature with a lag of 6-7 years, high prices encourage extension of sureage under tes leading to expans capacity in the long run. Himangau Roy in his book "Tes Price Stabilization" writes -

Prolonged period of high prices lead to rapid expansion in screen giving rise to excess capacity through the follure of demand to rise under new conditions at a height sufficient to absorb the increase in supply after a long period of quatation.

This characteristic, which is exclusive to the tea industry, and which has helped this industry to develop a control system of its own, is that while in the coffee industry short run variations in supply arise essentially from external variables, e.g. the meether, in the tea plantations short run variations can be regulated by the deliberate intervention of an endogenous factor, namely, the decision making unit.

In this context the control system in the tea industry assumes a specific character inapplicable to any other plantation system.

The output can be varied seasonally through the process, plucking of tea leaves. When the prices reach rock bettem output can be restricted by respring to finer plucking, whereas high prices generally encourage ceareer plucking. The fineness or coarseness of plucking

¹ H. Roy. Ion Price Stabilization - The Indian Case, p. 5.

depends upon the number of leaves taken and the time the plant is allowed to grow between two plucking rounds. Therefore, in spite of the long-run tendency to over-production, the electicity of supply through regulation of plucking has operated to secure a balance between demand and supply in the short run. It is through this particular instrument that the control evates in the tea industry has sought to operate. Since plucking, not only affects the quantity of output, but also its quality, it tends to est off a complex set of reactions. Resorting to coarse plucking implies an increase in the supply of common tea and therefore a faster decline in prices because it is the volume of common tess and not the aggregate supply of all types of tee which matter for a stable price equilibrium for all types of tea. Similarly finer plucking will lead to quicker recovery in prices by decreasing the supply of common toa. However, increase in the supply of finer quality tea through extension of acreage fails to have a pronunced effect on prices. Therefore the plucking operation will be an important determinent of price downments. In an attempt to save the industry from the crisis of relatively less supply by resorting to coarser plucking, a crisis is being planned through increase in the supply of common tess. Conversely finer plucking restricts supply but increase cost of production. The rise in cost, while prices are still low consequent upon the previous increase in supply may worsen the situation unless the regulated supply can raise the average prices high enough to absorb the increase in cost.

¹ Ibide, p. 7.

Section (II)

The basic cause of the slumps was over-production and in every instance the recovery was generated by exercising control over the stock of tea in the market. The initiative came from the producers themselves. The first alump came in 1920. During the first World War the Ministry for Food in Britain had entered into contracts with the producers in India and Caylan for buying 40 per cent and 27 per cent respectively of tem produced in 1917. Subsequently the figures were relead to 66 per cent and 50 per cent respectively of the crop in 1918. The stocks of tes in the U.K. averaged 90 million pounds in 1918, a quantity considered to be about normal. In 1919 the stocks everaged 154 million pounds and in 1920 rose to 214 million bounds. High prices during the War had stimulated new planting. Acress increased from 624.000 in 1914 to 692.000 in 1919. Producers were tempted to resort to coarser plucking as well. Output was 64 million pounds orester than in 1914. The selling of all tes at a standard price during the period of government control encouraged the growers to place emphasis on volume rather than on quality. As a result, a considerable proportion of the tea stocks in 1920 was of inferior quality. When the Smitish Government released the stocks after the decontrol of tee, prices continued to fell steadily through out 1920. And towards the end of the year the prices had fallen to the lowest level since 1908 and current production exceeded consumption by 25 per cent.

¹ V.D. Wickizer, Tea, Under International Regulation, Food Research Institute, Stanford University, 1944, p. 59.

P. Griffiths, The History of the Indian Tea Industry, London, 1967, p. 177.

³ V.D. Wickizst, opecite, p. 60.

At this point came the first control scheme. In September 1920 the Indian Tea Association (London) proposed that the production for the current season should be restricted to 90 per cent of the average production or alternatively all plucking should be discontinued. The Calcutta Committee adopted the latter alternative, and all members of the Indian Tea Association were directed to stop plucking from 15th November 1920.

The control achieve worked effectively in the sense that prices were remunerative again by the end of 1921. The 1922 crop was higher than the 1921 crop and the Chairman of the Indian Tea Association werned the industry against a return to coarse plucking. However, in the subsequent years production continued to rise. In 1923 it reached a record level, though there had been a decline in quality and common tes was being produced in a larger proportion. In the early months of 1929 prices began to fall in the U.K. According to a report of the food Council, the downward movement in prices was aggravated by the large proportion of common tea in the exports. An attempt was made to restrict offerings on London auctions, but it was merely a temporary measure. In the middle of 1926 when it seemed that the crop would be very heavy, the Indian Tes Association raco-Manded that plucking should be discontinued from 20th November. However, it did not succeed in influencing the industry and the final outturn reached a record level of 393 million pounds. Prices declined in Calcutte and in London.

In 1928 output was 45 million pounds higher than in 1927. As a result of the high tea stocks in the U.K. less tea was experted to Britain and the cut markets took more than the usual quantity.

Prices declined. Although the post 1921 period had generally experienced high prices and prosperity, a slump was inevitable. The area under tea was expanding at a rate of 2 per cent per year. In 1929 particularly there was a tremendous increase in output to about 433 million pounds, nearly 29 million pounds greater than the previous years figure. At the close of 1929, tea stocks in London represented over six months, supply, the highest figure of stock in 30 years.

The second control echeme was devised at this point. Qualitatively this scheme was different from the first one. Whereas in 1920 the Indian Tea Association had acted alone, the 1930 reduction scheme was a joint effort of the Tea Producers Associations of India, Ceylon and *Indonésia: ... The scheme was designed to reduce the 1930 output 57.5 million pounds below the 1929 level. Not only was the 1930 plan different from the 1920 restriction scheme in that the decision making unit had changed, but also in its principles. The associationally than that of better quality tea. The following guidelines were laid down to

1) Estates which sold toe below an average of 1e.5d per pound for 1926, 1927 and 1928 were to reduce to 85 per cent of the 1929 crop.

V.D. Wickizer, op.cit., p. 66.

- 2) Estates which sold tes between 10.5d per pound to 10.7d per pound were to reduce to 90 per cent of their 1929 crop.
- 3) Estates which sold tes above 1s.7d per pound were to reduce to 95 per cent of their 1929 grop.
- 4) Estates which sold tea at or above 1s.9d per pound to reduce their crop to 97 per cent of the 1929 output.
- 5) Gardens producing less than 400 pounds per acre were not expected to reduce their crop.

The 1930 restriction scheme was a failure in that exports from Indonesis were reduced by only 5 million pounds and though India and Ceylon reduced output by 45 million pounds and 8 million pounds respectively, exports were reduced much less, partly because of a decline in domestic consumption in India induced by a boycott. This left more ten available for oversees market and the combined exports declined by 42 million pounds, when the desired level of reduction had been 57.5 million pounds.

The agreement was not renewed in 1931. Exports increased in 1931 and in 1932, but absorption continued to decline. Prices reached the lowest level in 1932. Particularly disturbing throughout the Depression years was the composition of the tes supplies that were piling up - "Poorer quality tess tended to become an increasing proportion of total stocks. Such tess not only begin to lose flavour within a few months and are most difficult to sell on a decling market, but they tend to pull down the prices of practically

all tess of better quality, except those in limited supply for which there is a special and constant demand."

The third control echeme of the period was the International Tes Agreement of 1933. India, Caylon and Indonesis, accounting for 80 per cent of world production, entered into an agreement to reduce export5by fixing export quotes on the basis of maximum export5 over the period 1929 to 1931. The egreement was for a period of five years and for each year the expert quote was set as a percentage of the maximum exports in any of these years. The acresce was not to expand beyond & per cent of the existing planted area. The International Tea Committee, comprising of representatives of tea growers from each country was set up as the administrative body. The formal regulation came in response to the initiative taken by the producers themselves so that the principles of control were determined by the industry itself. The government lent a helping hand by setting up the Tea Licensing Committee to exercise control over exports and planting, which originally consisted of representatives of tea producers in India, but in 1939 a provision was made for the government to eppoint a Chairman.

The third control scheme therefore sought to remedy the problem of over-production from the export side rather than exercising direct control over production. In January 1933 a referendum showed almost unanimous support for a scheme which attempted to limit production for sale in India to 12 per cent of each estate's best crop. But this was not given legislative effect due to apposition from the

United Planters Association. But, valuntary crop restriction was accepted by over 93 per cent of the Indian Tea Industry for 1934.

Production declined from 434 million pounds in 1932 to 383 million pounds in 1933 and rose to only 400 million pounds in 1934. In 1935 voluntary crop restriction was continued with the support of 90 per cent of the industry and was justified by the fact that internal consumption at this point of time was about 83 million pounds, whereas potential supplies after the fulfilment of export requirements was around 160 million pounds. In 1937 an examination of the trand of tea consumption in India led the Indian Tea Association and the United Planters Association to increase the permissible production for consumption in India to 34 per cent. *A new agreement to extend the period of control came into operation in 1938.**

Section (III)

To enalyse the effects of the control schemes on the different regions in Eastern India it is necessary to have an idea of the type of tea produced in the different regions.

Assam combines heavy production with the excellence of quality.

Cachar and Sylhat produce common tem and the cost of production is generally lower than in other districts.

Darjoeling tea fetches high prices, being some of the finest team in the world.

Dopare does not produce as good quality ten as Assam, but the cost of production is low.

Terai, which is situated at the foothills of Darjesling, does not produce the same quality tea. The tea produced in this region is comparable to Dapare tea.

Table 2.1 gives a detailed picture of the price movements of the different varieties of tes, showing that for Darjesling and Assam prices were always above the overall average where as for Dooars and Terai and Cachar and Sylhat prices were below the average. Of these Darjesling tes commands the highest price and in a slump the price of tes produced in Cachar and Sylhat is worst affected.

Another interesting feature of the production dynamics is that there is no correspondence between the change in acreage and the change in production, showing that plucking operations played an important role is controlling the output fluctuations and the change in acreage under tea contributed merely to the long run trend in production. This is particularly noticeable if one compares the changes in acreage under tea with the changes in output for the individuals companies as shown by Table 2.3. Though there were large changes in autput, acreage under tea shows vary little change, and points to the importance of plucking as the instrument for regulating production.

Movements in the overall production figures for the different regions (Table 2.4) coincided only in particular years - a general decline in 1922, a general increase in 1922, a general decline in 1930 and in 1933, a general increase in 1934 and a general decline in 1935. Under all the control schemes the proportional decline in

Table 2.1

Average Tea Prices at Calcutte Sales (Rs. - A - P per Pound)

Year	Assam	Cechar	Sylhet	Darjeeling	Docars	Terai	Average
1910-11	7 - 5	6 - 4	6 - 5	9 - 6	6 - 11	6 - 7	7 - 1
1911-12	7 - 11	6 - 11	7 - 0	9 - 7	7 - 4	7 - 1	7 - 7
1912-13	7 - 6	6-1	6 - 2	9 - 7	7 - 0	6 = 6	7 - 1
1913-14	8 + 2	6 - 11	6 - 11	10 - 3	7 - 7	7 - 3	7 - 9
1914-15	7 - 10	6 - 10	7 - 1	9-7	7-3	7 - 0	7 - 7
1915-16	9 - 5	8 - 2	8 - 0	10 - 9	8 - 7	8 - 7	8 - 11
1916-17	9 - 0	7 - 10	7 - 9	10 = 9	8 - 4	8 - 0	8 - 5
1917-18	8 - 2	6 - 3	6 - 4	7 - 11	6 - 5	6 - 1	7-3
1918-17	9 - 1	6 - 8	6 + 10	9 - 7	7 - 0	6 - 10	8 - 0
1919-20	8 - 4	7-4	7 - 1	9 - 7	8 - 0	7 - 3	8 - 0
1920-21	6-3	3 - 6	3 - 8	7 - 9	5 + 0	3 - 10	5 - 1
1921-22	11 - 9	8 - 0	8 - 0	11 - 7	9 11	8 - 3	10 - 1
1922-23	14 - 5	11 - 9	12 - 4	1 - 0 - 1	12 - 9	93 - 11	13 - 3
1923-24	15 - 10	13 - 10	13 - 11	1+2-2	14 - 7	14 - 2	15 - 0
1924-25	1 - 0 - 8	14 - 10	14 - 9	1-4-3	15 - 4	14 - 8	15 - 11
1925-26	14 - 9	11 - 6	11 - 10	1-0-0	13 - 1	12 - 0	13 - 5
1926-27	12 - 9	11 - 6	11 - 5	1 - 0 - 8	11 - 9	10 - 9	12 - 3
1927-28	15 - 5	13 - 7	15 - 4	9-3-0	14 - 8	13 - 5	14 - 10
1928-29	12 - 4	10 - 1	9 - 10	14 - 8!	10 - 11	9 - 11	11 - 4
1929-30	10 - 10	8 - 5	8 - 2	14 - 11	9 - 6	8 - 6	9 - 11
1930-31	10 - 1	7 - 9	7 - 7	14 - 9	9-1	8 - 0	9 - 4
1931-32	7 - 10	4 - 9	4 - 9	11 - 5	9 - 11	5 - 2	6 - 5
1932-33	5 - 11	4-5	4 - 3	9 - 8	4 8	4 - 4	5 - 2
1933-34	10:-5 4-11	8-7 4-9	8-7 4-7	12 - 8 6 - 11	9-2 4-8	8-10 4-6	9-7 4-10
1934-35	8-11 5-3	8-5 5-0	8 - 2 4 -10	11-2 9-6	8-9 5-10	8-3 4-11	8-9 5- 2
1935-36	10 - 0 4 - 11	8 - 7 4 -10	8-7 4-7	12 - 2 5 - 10	9-0 4-10	8-8 4-8	9-5 4 - 10
1936-37	10 - 7 4 - 8	9-4 4-8	9-4 4-6	12 - 0 5 - 5	9-9 4-7	9-6 4-6	10-1 4-8 8
1937-38	11 - 8 4 - 9	10 - 9 4 - 8	10 - 8 4 - 5	13 - 9 5 - 9	11-1 4-8	19-7 4-7	11-4 4-9
1938-39	10- 0 4-1	8 -10 3 -11	8-9 3-7	12 - 9 5 - 4	9-2 4-0	8-9 3-9	9-7 4-0

Source : Investors' India Yearbooks.

Note: The Second set of figures refer to domestic prices.

Table 2.2

<u>Eoffee Prices (cente/lb.)</u>

Year	Prices
1910-11	13.5
1911-12	14.6
1913- 13	11.1
1913-14	8.2
1914-19	7.5
1915-16	9.2
1916-17	9.3
1917-18	9.4
1918-19	17.9
1919-20	12.0
1920-21	7.2
1921-22	10.3
1922-23	11.5
1923-24	16,8
1924-25	24,5
1925-26	22,3
1926-27	18.7
1927-28	23.2
1928-29	22.1
1929-30	13.2
1930-31	8.7
1931-32	10.7
1932-33	9.3
1933-34	11.2
1934-35	8.9
1933-36	9,5
1936-37	11.1
1937-38	748
1939-39	7.5

Source : V.D. Wickizer, "Coffee, Tee and Cocoa; An Economic and Political Analysis".

Name of the Co.					nder t						uction		mde		_
TOWN OF LIFE CO.	1920	1921	1929	1930	1931	1932	1933	1920	1921	1929	1930	1931	1932	1933	
Amluckie	854	852	847	847	847	847	847	7205	5041	7397	7122	8238	7214	7126	
Baghmari.			571	577	577	577	577			3489	3436	4716	4182	3618	
Besmatie			322	322	325	336	336			2918	2541	2758	3451	2426	
Bateli			500	550	550	545	550			4409	3914	3500	3519	3910	
Betjan	432	435	465	502	902	502	996	2918	2526	5107	4217	5333	5523	4552	
Bhootes Chang	884	884	884	884	884	884	684	9240	5777	9232	7133	6640	9406	7017	
Biehunauth	3463	3595	3533	3478	3408	3408	3379	22568	21198	33520	25919	23052	28461	26990	
Bogabagh	393	392						1717	1600						
Borehi			414	443	451	451	451			3071	3062	2517	3493	3094	
Bormah-Jan			450	450	450	450				3710	3142	2517	2830		
Borpukturi	647	576	576	576	576	500	500	4699	4223	4036	3620	4028	3842	3139	
Comile Koomie	474	491	477	477	477	477	490	2179	1205	2826	2450	2053	2536	2167	
Dejoo Valley	412	275	255	255	263	263	264	2262	1205	1709	1762	1837	1308	1274	
Oversi & Parehutia	1310	1410	1413	1413	1423	1423	1423	11302	9773	12006	11390	11892	13230	10883	
Ohelakhet		402	418	418	424	424	424	•	1945	4052	4128	4240	4027	3754	
Ohuneeri		••		590	59 0	590	590	÷			4210	9434	5362	4387	
Oimakusi .	674	658	625	604	604	604	604	4079	3504	5252	5100	5232	6110	4725	
Durrung	570	570	522	521	521	521		2672	2242	2268	2451	2587	1967		
Oufflachur			600	600	600	628	628			6298	6099	5469	5373	4821	
Cast India	1764	1784	1346	1357	1132	1270	1170	11026	9246	9618	8549	8449	8390	7239	
Gilla Pukri	380	396	400	400	400	400	410	3242	3500	4407	4432	4227	4312	3722	
Gohpur		442	478	505	505	506	506		1716	4067	4235	4823	4372	3832	
Grob	1266	1266	1289	1337	1247	1277	1284	6788	5561	8832	7349	7772	9020	7733	
Hoograjuli			436	436	436	436	436			3501	3336	3424	3508	2720	
Hoolungoozie	1371	1329	1243	1268	1152	1151	1151	8798	7504	8465	7741	8193	8688	7294	

ASSAM Cont'des

Table	2.3
1 21134.25	-

Name of the Co.	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Acres	20 Unc	ter T	13		A shortflitted and a second		Prod	uction	in me	unde	
and the same transfer of the same and the same	1920	1921	1929	1930	1931	1932	1933-	1920	1921	1929	1930	1931	1932	1933
Hapjan Parbat	11.11						-,-,-			1583	1619	1595	1337	1413
Jutlibari	834	834	842	845	846	866	866	349	3102	8905	7208	7690	7700	6800
Killing Valley	1743	1745	586	586	586	586	586	12900	8152	3241	3071	2655	2713	2531
Kingsley Goleghat			1631	1614	1608	1608	1978			14971	13069	12379	12656	11351
Løde	537	960	1030	1051	1014	1031	1031	4141	3831	9461	7582	8191	8256	7388
Mothele	455	455	1446	446	446	446	439	4002	2400	4793	4231	4027	4132	3501
Moheema			671	678	688	668	668			9004	4346	4201	4360	3642
Murphulani			292	299	299	302	302		,	1410	1339	1985	1788	1915
Maga Hille			528	528	928	528	528			3608	3541	4795	4779	5021
New Cinnetoliah	973	973	971	969	940	940	940	6697	5610	6773	5096	5572	5527	5311
Namburnadi	756	756	773	790	790	790	790	4885	4113	7153	6488	5750	5720	4759
Rejaberris	512	512						2539	1653					
Rajgazh			323	323	323	323	323			2177	1649	2070	1822	1745
Sapoi	864	864	854	964	867	867	877	6852	4805	7160	6370	6380	696 9	5683
Seajuli	515	519	640	557	557	527	480	3893	2780	526 8	4146	3111	3574	4234
Toon All	518	518	507	507	907	507	907	1816	1634	3622	323 0	3982	4077	3379
Yeliejan	-		477	477	482	482	482			5192	9255	4649	4590	3869
Tezpare			1075	1150	1150	2054	2054			10040	9917	10447	16018	14969
Titabur	625	625	519	608	579	579		3989	3095	3624	3200	3570	3659	
Tongani			364	358	35 8	355	355	•	•	2634	2458	2190	2300	2081
Tyroon	742	742	693	671	675	691	693	4771	4025	4240	4453	3645	4308	4328
Tengpani				•			480							3400

Cont'd.. Table 2.3

Name of the			reade	under	tes		Production in maunda							
Mane of Cle	Co. 1920	1921	1929	1930	1931	1932	1933	1920	1921	1929	1930	1931	1932	1933
Atal	701	701	701	701	701	701		3359	2757	3367	2885	3282	4295	
Ganarhat	22971	2300	2440	2440	2440	2440	2240	12122	12122	18354	14949	11748	14087	15105
Baradighi	1045	1045	1078	1078	1078	1078	1078	7140	7331	11514	10833	12204	12053	9891
Belgachi			448	459	459	413	413			1832	1885	1738	1850	1661
Bhatkawa	1143	1143	1148	1148	1149	1112	1112	7227	7209	11042	10236	10049	11566	965
Birpara	1315	1350	1325	1325	1325	1325	1326	10418	8715	10417	8748	8234	11314	863
Carron	604	604	604	604	604	604	604	5081	3687	6285	4098	2245	5306	466
Choonabhuttee	866	866	866	866	866	866	866	7704	4895	7460	6178	5121	6741	593
Ellenbarrie	552	552	545	545	545	552	512	2921	1882	3751	3236	2390	3716	3001
Engo	263	263	258	298	259	262	266	1620	1717	2098	1821	1643	2141	167
Ethelbarrie						447	447	-					3949	326
Cungaran	1995	1640	1715	1716	1643	1643	1633	8306	4951	10573	9091	9749	12179	1013
Gairekhata							1233					7205	8062	714
Henegus							562							350
Hantapara	2405	2413	2409	2409	2409	2427	2427	15922	19333	23928	22014	19558	23429	1818
Hashimare	3030	3030	3763	3761	3761	3761	3761	32585	20111	43182	35873	30842	48576	3957
Hudlibari	1366	1366	1366	1386	1386	1386	1386	6517	4438	9790	8322	7478	8646	774
Jaybispara	609	606	607	607	607	607	607	2731	3005	4919	3966	4144	3604	382
Kilcott	859	859	923	739	938	936	402	6570	5684	10453	9819	7860	10051	294
Loheger	419	491	430	430	416	416		1717	1708	1955	1726	2095	2284	
Longview	1071	973	600	633	641	646	652	3030	2826	4503	3082	4174	4636	358
Manabarrie	730	730	730	730	730	730	730	3216	1653	3484	3592	2043	3834	308
Nagalauree	1141	1141	1138	1138	1138	1138	1125	7157	6016	9787	10422	8718	10019	799
New Chumta	588	588	548	529	485	485	489	3600	3133	3314	2563	2711	2971	269
New Cooks	991	991	1065	1065	1065	1065	1065	6997	9681	12163	9374	7579	10405	968
New Terei	872	880	892	932	972	972	972	4061	3662	5689	4037	3476	3674	484
Codlabari	516	516	531	553	558	560	560	3044	2187	4800	3660	4426	6080	485
Pahargoomiah	861	862	903	961	961	970	970	4020	2637	5333	4655	4906	6716	563
Phaskava	397	397	397	397	390	390	369	1792	1570	2581	2290	1735	1936	196
Putinbares		₂₀ 1%	261	281	281	281	238			1561	1087	1292	1475	126
Rajabhat	1770	770	782	782	782	778	764	4301	4800	8438	7203	7312	8885	700
Ryda	1364	1414	1608	1710	1736	1736	1739	8966	7312	12879	11482	11886	11863	1125
Sarugaon	960	962	631	631	631	631	631	2260	1950	3831	3499	3239	3606	367
Ranicherra	1096	1096	982	982	982	1720	1720	5203	3454	5451	5081	5142	10727	811

DARJEE	Ling.		Cont'	d.	Table	2.3		ì	•					
Name of the Co.			Ac	reage	under	tes				Product	ion in) Marifix	ls	
	1920	1921	1929	1920	1931	1932	1933	1920	1921	1929	1930	1931	1932	1933
Chanong	358	362	380	380	390	390	390	631	952	1308	1107	1213	1196	950
Oarjeeling Himalayan	703	703	· •			:		1850	1586	:		•		
Darjeeling Tem and Cinchone	1013	1013	967	975	976	976	1001	4296	2560	3990	4779	4111	4329	4362
Oileram .	481	461	470	470	470	470	456	1039	1065	1162	1128	969	760	1036
Gielle	528	528	920	526	533	333	533	2224	1725	2438	2574	2630	2555	2043
Guline	436	436	•					1845	1255				•	
Hope Town	259	259				•	•	821	619		4			
Kurelong and Darjeeling	360	368	430	430	430	430		785	675	924	885	828	666	
Margaret's Hope	541	541	541	541	541	541	541	1727	1400	2175	1541	2116	2156	2013
Ma	440	440	445	445	445	445	445	1075	798	1030	1142	1221	1170	1092
Nagri Ferm	468	468	619	619	631	640	546	2600	2146	3773	3705	3700	2938	2984
Okeyti	505	505	505	509	505	505	505	1733	1850	2105	2233	1757	1909	1638
Paghek	802	802	802	802	802	802	802	2956	2160	3626	2929	3039	3574	2907
Paabang			500	500	500	500	500		•	2240	1838	2002	1693	1702
Pussiabing	579	579	579	562	562	362	562	1802	1008	19	1753	1457	14	1770
Rungles Hunguat	341	341	341	341	341	341	341	2091	1213	1704	1564	1857	1436	1436
Singell	747	747	747	747	747	747	747	2246	1843	3206	3219	3107	3004	3494
Seeyak		***	389	389	369	369	389	-		1055	1013	1221	1651	1251
Sington	606	606	606	606	606	606	606	2468	2031	1455	1959	1621	1994	1620
Soom	478	478	492	492	514	520	532	1764	1762	2410	2080	2394	2070	1917
Sungae Touche Malley	385	385	385	305	385	382	362 718	1305	1124 2870	1901	1477 4012	1393 4043	1371 4202	1245 3399
Teesta Valley Tirihannah	717	717 1433	717 1307	717 1328	717	716 1230	1230	4106 4018	3739	3864 6209	5919	5500	7062	5266
Tukvoz	1433 1290	1250	1254	1669	1334 1641	1641	1641	6038	5401	7795	6450	6370	5516	5920
Tumsong	7250 755	355	7254 755	1007 355	355	755	355	1711	1081	1290	1384	1520	1538	1225
· constant	277	777	202	24.4	707	777	775	****	1001	.270	1,004	1-24	9 20 20 40	4 mars

CACHAR & SYLHET

Cont'd... Table 2.3

Name of the Com			ACTESOS	under	tes					Produ	ction	in max	nde	
Hade of the tos	1920	1921	1929	1930	1931	1932	1933	1920	1921	1929	1930	1931	1932	1933
Alyne Apthemare	1111	969	841	848	848	848		5004	2966	4598	4401	4380	8770	
Accruttipore	845	839	861	861	861	861	825	4422	2939	4529	4120	3892	3821	7126
Ballacherra	946	936	885	889	825	822		4838	3739	3982	3224	4232	3642	
Central Cacher	1512	1470	1420	1442	1411	1411	1421	8341	5404	7569	7517	8267	9065	7319
Chundypore	770	770	784	794	794	794	794	3907	2804	4510	3797	4445	4669	4114
Chundi Cherra	740	688	625	492	932	532	532	2271	2143	2385	2713	29G0	3362	2950
Daurecherta	532	572	576	600	559	560	960	1587	1082	3598	3150	4013	4691	3611
Eastern Cachar	1103	1103	1217	1164	1164	1100	1100	7804	4401	5338	5882	5852	6492	4396
Hattikhira	2730	2730	2291	2340	2325	2290	2340	16062	8506	13779	10301	15469	18463	14599
Incamaza			398	426	426	426	426			2537	2247	2241	3313	2553
Kalacherra	469	469	405	427	460	455	485	3333	1033	1800	2263	2518	2727	1957
Kauti	400	400	405	405	405	402	402	2514	1386	2942	2936	3210	3440	2944
Kallincher & Khor	ee1623	618	602	612	612	585	589	3199	2335	2945	2724	2080	2512	2454
Kodala			930	533	486	486	486	- , ,		3925	2087	3089	2778	2768
Kyano			69	69	72	72	72			656	561	63	52	137
Kuchunosre			594	597	597	599	599			2982	3236	3416	3585	2881
Lelke Toorah	1317	1178	1200	1200	1200	1200	1166	6197	4892	6029	5269	6032	5759	4691
Loobeh			1175	1199	1060	1060	1060			6607	5504	5682	6566	5330
Maulvie	500	500	607	607	607	607		2455	2014	1879	1640	1393	1335	
Negamengach	949	949	964	1000	1000	1000	1000	6310	3968	8972	6260	8730	10438	8044
N.W. Cachaz	1552	1556	1940	1951	1888	1835	1825	10061	7211	11739	9532	11036	10979	9201
Codalwah	824	824	535	961	561	547	547	3586	2257	2333	2112	2336	2330	2594
Patrokola	4263	4315	5253	5253	5838	5838	5838	40296	26013	53815	47557	50297	63422	49973
Rajnagar	889	889	895	912	733	648	648	4334	3010	3874	4114	3973	4495	3600
Roopcherra	658	658	500	533	592	614	614	6676	5130	2462	3017	3024	2770	2244
Rungmatee	744	744	772	738	738	654	688	5280	3613	5430	4615	4952	6597	5109
Rutema	1318	1318	1222	1222	1227	1227	1228	6387	4232	8670	8098	8623	8554	7250
Sonairiver	800	800	543	592	632	639	639	6389	5144	4351	5993	6225	6263	3849
South Cachar	533	533						3448	1644			,		
Teliapara	1202	1175	1163	1165	1165	1165	1165	9979	6350	10515	9171	9751	10755	8523
Kornefull	799	799	896	896	896	896	896	6074	4206	4355	4229	3551	5042	5033
Tilkah	-		808	808	760	760	760			4593	3983	4410	4870	4875

Source : Investors India Yearbook.

Tea Production in India (1be.)

Year	ALLA		Bengal
	Bramhaputra Valle	y Cacher & Sylhet	
1918	171,685,750	81,584,343	89,983,861
1919	163,962,010	79,170,863	99,511,408
1920	154,181,966	80,132,495	71,699,667
1921	131,193,736	50,309,038	58,777,876
1922	137,304,660	62,660,658	71,834,933
1923	160,201,815	77,318,636	88,176,654
1924	165,781,842	71,371,268	87,459,477
1925	152,371,909	72,813,010	85,279,396
1926	167,671,433	74,310,240	95,829,925
1927	163,350,276	72,537,535	97,942,054
1928	173,785,864	72,231,814	96,109,654
1929	185,156,297	73,784,417	111,355,903
1930	164,057,327	69,358,756	98,240,513
1931	172,073,059	71,196,279	90,096,271
1932	176,341,711	80,716,222	110,506,859
1933	195,034,132	64,308,994	98,441,711
1934	164,825,050	68,010,368	100,702,500
1935	159,849,472	66,567,870	98,643,796
1936	100,493,459	62,831,801	102,010,142
937	174,210,161	67,517,115	112,354,505
1938	191,434,638	69,602,528	109,665,759

output was the highest for Sengal, though under the 1930 control scheme output in Assam declined the most in absolute terms.

The third aspect to be studied is the effect of the control schemes on the incomes in the different regions. Dividends have been taken as an indicator of income trends.

Vary few companies in Dooars and in Darjeeling paid dividends in 1920, though the number both in absolute and in relative terms was greater than in Assam. Incomes picked up faster in Dooars and in Darjeeling than it had done in Assam and in 1921 the majority of the companies paid dividends ranging between 10 to 65 per cent, though in most cases it was around 15 to 20 per cent. All except one company, which paid dividends in 1920 belonged to the Duncan group. The highest dividends in 1921 were also paid by the Duncan aroup.

In Cacher and Sylhet no company except one paid dividends in 1920 and only a few did in 1921. Those which paid dividends in 1921 belong to the Duncan and the Octavine Steel Groups.

Assem, as it has been pointed out earlier was also badly affected in terms of incomes. Only one company in the sample paid dividends in 1920. In 1921, though the majority of the companies did not pay dividends, a few paid fairly high dividends - upto 35 per cent.

Therefore in terms of income movements Assem and Cachar and Sylhut were similarly affected though the prices of Assem tes during the alump was considerably above prices of Cachar and Sylhut tes

and showed a greater resistance to decline. A possible explanation is that costs in Cecher and Sylhet were the lowest, whereas in Assem not only are working expenses per core very high, but also the capital expenditure per acre and therefore even a slight fall in prices of Assem ten tends to have adverse effects on incomes. On the other hand in Cacher and Sylhet, the over production crisis essumed much greater significance because of the type of ten produced and this must account for the slow recovery of incomes.

It is easy to understand the quick recovery of incomes in Darjeeling tea estates. These estates produce a type of tea for which there is a specific demand and therefore prices showed a greater resistance to decline and helped incomes to adjust without much lag.

Prices of Dooars tes declined to a large extent on account of the type of tes produced. However the decline in the price of Dooars tes was much less than the decline in the price of tess produced in Cacher and Sylhet and the lew costs of production helped to cushion the effect of price slump so that incomes recovered fast.

Table 2.5 shows the costs of production in the different regions in terms of working expenses per sors and one can find out the advantages enjoyed by the plantations in Docars and in Cachar and Sylhet in terms of cost per sors when compared to plantations in Assau.

The restriction schemes of 1930 and of 1933 showed similar results. In 1930 and in 1931, most companies in Occars and almost all companies in Darjesling paid dividends warying between 5 to 75

Table 2.5

Working Expanses / sore in Rupses (including commission)

ASSAM	1920	1927	1230	1232
Amluckie	334	363	430	260
Bagmmari		291	341	200
Basmatie		416	397	401
Bateli		501	448	282
Beijan	342	522	558	383
Shooter Chang	405	429	>86	327
81 shunauth	336	403	395	336
Soga Bagh	·			
Sorani		386	357	235
Boznahjan	•	99 7		
Borphkh izi	359	403	371	258
Bokakhet		,		•
Cooliekoorie	104	202	207	145
Dejoo Valley	269	345	379	193
Deseal Parbhutia	331	458	332	304
Delabhat		481	652	363
Ohunseri			366	250
Demarush!	315	392	456	302
Durrung	247	258	253	78
Dufflaghur		527	552	312
East India	289	370	379	277
Gillapuhri	382	576	642	490
Gompuz		492	481	304
Grob	253	384	342	270
Moograjuli		304	319	219
Hoolungurie	184	330	273	256
Hepjan Parbet		•		
Jutlibari	225	478	406	275
Killing Velley	203	253	232	172

Contid.. Table 2.5

ASSAM	1920	1927	1930	1933
Kingeley Goleghat	254	444	456	275
Ledo	415	319	318	182
Mothola	342	926	413	292
Rohesma		268	246	175
Murphulani		254	311	339
Methoni	•		٠.,	:
Mand Tea and Seed	•	* }		* 7
Naga Hills		334	285	309
New Cirmstolliah	199	249	271	181
New Purupbari		430		
Nanturnedi	379	378	904	299
Orang	352	330	. :	
Rajaberi		237	328	294
Rejgerh	307		394	308
Sapol	372		424	329
Seejuli	188	307	348	290
Yeenali		376	526	496
Teliajan		355	489	351
Tejpore		355	489	351
Tangeni	•	262	371	258
Tengpani		375	434	396
Titebur	290	361		
Tyroon	260	402	327	304
ODARS & TERAI	•			
Atel	193	232	·	
Benezhat	209	327	271	200
Beredighi	230	512	376	309
Belgachi		220	193	146
Shatkawa	234	411	359	281

Contides Table 2-5

DOGARS & TERAI	1920	1927	1930	1933
Birpara	225	261	337	169
Bullebarrie		267		
Cerson	306	366	322	212
Choonabhatti	242	305	308	196
Ellenberrie	205	232	241	182
Enga	172	278	286	275
Ethelberi				220
Gungaram	193	225	240	190
Galsekhata				167
Hansqua		•		133
Hantepara	234	294	328	207
Hashi Mara	302	403	252	270
Hudlibari	166	249	212	150
Jaybirtata	198	271	232	177
Killcott	261	342	300	220
Lohagar	172	279	224	162
Longveis	223	558	302	259
Manabarrie	191	209	196	117
Nagai surel	246	267	299	202
Nov Chumta	260	277	774	158
New Dooars	209	364	333	261
New Termi	149	241	183	170
Dedlaberi	184	450	353	221
ahargoomiah	190	230	224	206
haskewa	219	195	203	125
Putinbari		229	229	132
Rejebnat	223	367	393	297
tydak	230	374	291	210
Renicherta	179	286	239	152
Serugeon	214	216	224	180

Cont'd.. Table 2.5

achez & Sylhet	1920	1927	1930	1933
Alyne Pathemera	173	312		
Accruttipore	131	188	162	115
Ballacherra	184	287		
Central Cacher	187	249	244	160
Chandypoze	166	232	218	168
Chundi Cherta	157	238	302	199
Daurecherra	111	212	223	149
Dantamers		208	121	84
Eastern Cachar	205	261	226	134
Hattikhira '	228	284	146	152
Ingemera		279	263	162
Kelecherre	219	250	235	134
Kaliti	291	331	293	216
Kalingher & Khoreel	185	224	201	144
Kodals		300	266	100
Kyang			329	63
Kuchonpore			215	117
Lachatooreh	135	105	180	121
Loobah		275	263	156
Maulvie	166	169	A	
New Samanbagh	218	323	304	203
N.W. Cacher	246	253	239	103
Codaleah	146	283	238	138
Patrokola	289	290	286	173
Rajnegar	203	215	193	177
Roopcherra	252	319	210	160
Rungemates	292	271	235	169
Rutema	209	331	298	195
Sonai River	233	305	338	187
Telia Pera	265	290	234	158
Pathemara				194
Kornefuli	232	242	150	166
Yilkah			211	165
South Cachar	211	283		

Contides. Table 2.5

DARJEELING	1920	1927	1930	1933
Chamong	151	253	214	211
Darjeeling Himeleyen	147	161	n.s.	n.a.
Darjeeling Tea &			ا اعتدادات	
Cinchona	172	263	217	220
Dilaram	107	159	142	173
Gielle	221	267	220	174
Gulma	173	197	Nede	ñ, a,
Hopetoen	154	221	Ness	N+R+
Kureiong & Derjeeling	159	150	Nette	n.s.
Margarets Hope	171	282	230	196
Min	144	188	181	104
Nagri Farm	188	267	232	203
Okeyti	228	261	233	185
Pashok	129	203	159	172
Poobong		220	199	156
Pusimbing	161	214	200	162
Rungles Runguat	270	292	249	198
Singeu	192	288	291	261
Saeyok		195	102	174
Sington	179	196	192	170
Soon	200	284	241	193
Sungra	141	199	227	185
Teestavelley	204	260	214	177
Ticrihannah	149	235	207	157
Tukvor	182	263	217	185
Tumsong	197	256	253	210

Source: Investore' India Yearbook,

nees Not available.

per cent (see Table 2.5). In fact the price of Darjeeling tes increased in 1929-30 and in 1930-31was higher than its price in 1928-29. This obviously shows that the crisis was in the market for common tess.

Incomes in Assem were more adversely affected than in Bengal as is seen from the number of companies which paid dividends and the magnitude of dividends. Most companies in Cachar and in Sylhet did not pay dividends during 1929-32 and the once which payed dividends belonged to the Duncan group.

In 1932 wery few companies in Docard paid dividends, but the dividends had picked up by 1933 showing that with the operation of the restriction acheme incomes improved immediately. In Darjeeling many companies paid dividends in 1932 and in 1933 almost all did.

In Assem only a few companies poid dividends in 1932 and though incomes had picked up by 1933, the garmenal magnitude of dividends was lower in Assem than in Bengal. In Cachar and Sylhet, few companies paid dividends in 1932, but incomes had picked up by 1933.

Table 2.6 shows the magnitude of dividends paid by different companies.

Taking the pariod as a whole in which the three control achemes operated, it is possible to arrive at certain generalisations. First, the control system worked most effectively in Dooars in the sense that incomes in each case picked up faster than in Assau and Cachar in spite of the large decline in prices.

Table 2.6(a)

Ordinary dividend rank per cent per annum for Rupes Companies

ASSAM

and the same of th					The state of the s								water and the same of the same	-		The second second second second		
936 1937 1	1936 1	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	me of the Co.
	: ·- · · · · · · · · · · · · · · ·							71	10	20	10	121	20	25	10	*	-	luckie
								٠,	5	71	5	•						ghmeri.
21 71	21	21	**	9	5	***	9	15	25	223	9	8	•					emetia
2월 2월	21	21								*								tel1
72 20	71	10	5	10	5	71	71	121	25	35	10	30	40	25				tjan
											35	40	50	35	15			ootea Chang
121 20	121	15	5	15				15	30	422	30	40	35	35	20			shunauth
													10					gebagh
4							_			15	71	5	10	10	10			rahi
							•			•	•							rmehjan
21 10	23	-					•		5	221	171	30	35	39	29			epukhuei.
5 5	5	5	5					20	37	223	371	421	65	5	123	4		olie Kopeis
									5	10	71	5						job Valley
10 15	10	12	7	121		5	10	25	40	55	30	30	60	33	25	8	tia 8	seal & Perbhu
173 173	171	171	123	20	5	15	15	25	20	30	20	30	25	20	10			el akhat
												,						unseri
121 20	122	175	*	25	72	10	10	10	***	15	10	-		30	30			makusi
												5	8	3				rzung
5 72	5	71	-	5	-	***	***	5	10	10	5	10	5	,				fflaghur
37 5	33	21							10	15	10	25	25	20	5			et India
15 15	15	15	-	173	121	71	1	25	35	35	25	25	49	80	55	35	25	lle Pukri
																		hpur
									123	25	15	6	49	30	10			ob
10 151	10	71	71				5	10	72	5						-		ograjuli
10 121	10	10	5	20			71	17	121	30	40	35	50	30	5 5	35		eiroegnule
		7½ 2½ 15	-	17}	•	***	1 5	5 25	10 35 12½ 7½	10 15 35 25 5	5 10 25	10 25 25 6	5 25 49 49	20 80 30	5 55 10		25	makusi rrung offisghur set India lis Pukri ohpur ob

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Cont'd.. Table 2.6(a)

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Hapjan Parbat						· · · · · · · · · · · · · · · · · · ·		1			•								
Jutlibari	*	-		10	15	20	15	20	20	72	21			5	21	10	71	122	10
Killing Valley		5	30	75	35	20	10	222	5	5	42	. 9499	*	21	•	***	21	10	5
Kingeley Golaghat		35	80	100	100	.70	65	85	30	30		**	•	35	15	20	17	35	20
Ledo				10	15	10	72	73	10	10	•	•	21	15	10	10	121	171	12
Mothola		10	60	80	100	30	60	75	75	50	20	71	*	20	15	20	25	35	25
Moheema					40	5 0	45	65	40	21	21	•	**	5	*	21	21	3	2
Murphuleni																			
Moud Tea & Seed																5	9	5	6
Maga Hills				25	30	171	171	21	122	71				15	71	63	10	121	5
New Cinnetoliah		30	80	100	125	60	60	75	60	321	10	5	**	20	20	20	20	25	175
Nambhurnadi			5	15	19	5	5	22			•							5	2
Rajabarrie					15										,		•		
Rajgarh				5	10	10	10	10	5									5	5
Sapoi			10	15	171	10	123	10	71									5	5
Seejuli				60	60	65	45	45	45	45	10	15	495	71	***	15	10	15	15
Teen Ali						10	71	122	10	10	10	5	**	71	5	5	. 5	71	7
Teliojen							10	10	20		•							21	2
Tezhore																21	2	5	2
Titabur			15	35	50	20		29											
Tongani							10	10											
Tyroon		30	50	100	30	20	15	15											
Tengpeni					7分	121	10	15	121	5	21	**		5	2	10	73	. 5	10

Name of the Go.	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Atel				30	20	5	-	15											
9anarhat		10	40	45	50	65	70	80	40	20	10	100 °	-	5	73	10	15	30	30
Beradighi			40	65	75	35	50	100	45	25	15	•	-	30	25	20	271	40	25
Belgachi			50	79	-		15	20								_	."		5
8hatkawa		25	50	70	80	50	60	75	40	35	25	10	5	30	25	227	30	40	25
01rpera	10	30	45	50	40	40	20	30	25	10		**	•	10	71	10	175	20	174
Carron	25	35	79	100	80	65	25	50	50	50	16	***	-	50	25	38	45	55	40
Choonabhuttee		25	50	100	130	120	85	135	50	221	6	-	45	10	15	20	25	20	30
Elienbarrie			10	40	25	30	30	30	15	15	5	-	***	20	15 -	10	20	30	15
Enga		20	- 30	35	50	30	30	35	15	15	171	**	-	79	5	5	5	10	10
Ethelbarrie			:								•	•	•	22	21	21	5	71	2
Gungram		•	9	15	29	25	20	23	3	***	•	*	-	20	20	20	30	35	20
Geirakhata														10	10	10	72	20	10
Haneque											·				21	2활	5	75	5
Hantapara	30	65	75	50	60	55	40	49	35	30	10	-	5	30	19	20	20	271	25
Hashimara		20	75	75	50	25	25	50	30	30	20	-	alia:	25	25	25	25	321	27
Hudliberi		20	50	30	50	25	40	30	121	17	73	***	**	121	121	10	12	171	12
Jaybirpara			25	35	30	25	223	35	20	201	121	***	-	10	7全	8	18	15	12
Killeett	20	20	45	50	40	49	50	70	65	60	50	25	10	40	35	30	25	35	30
Lohagaz			35	75	371	-	35	50											
Longveia				75	*	•	₩ .	5								_	2		
Manaberrie			5	20	15	123	5	20	10	10				15	15	7}	10	15	10
Negalauree	25	30	79	100	100	90	90	120	100	85	85	75	45	80	60	50	50	70	65
New Chumta			15	85	25	35	75	75	10	. 5						5	10	20	20
New Docere	10	45	55	115	225	175	12.5	285	115	90	75	-	10	60	45	50	50	70	70
New Termi		10	121	20	15	20	172	20	***	项	***	-	**	3	2	5	72	10	3
Codlabari		5	30	40	40	40	25	20	35	19	15	*	-	20	175	171	121	173	15
Pehargoomiah			10	35	35	10	16	30	15	15	-	9	5	15	10	10	123	20	10
Phaekawa			10	12	10	10	71	10	9	5	-	-	***	7	5	5	71	10	5
Putinbares					100	75	40	100						_		20	40	40	40
Rajaghat			10	25	50	35	40	60	40	30	20	5	5	15	122	123	20	30	20
Rydak		10	45	65	75	50	60	100	45	20	5	***	-	30	29	25	40	59	40
Sarugaon					71		-	5	4	-							5	7	5
Ranicherra		7支	20	60	20	10	173	25	10	10	-	-	_	5	5	7	5	10	5

					•	• •	•												
	DARJI	EELING			Co	nt'd	. Tabl	0 2.6(a)										
Name of the Co	. 1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1952	1933	1934	1935	1936	1937	1938
Chamong		72	10	121	20	12}	10	125	10	122	71	5				21	21	5	5
Darjeeling Hima	layan			6	13		•												
* Tea and Ci	nchona		15	40	50	20	25	30	10	20	25	10	19	-	5	5	9	9	5
Dilarem	•	8	10	75	20	20	20	15	15	20	172	18	8						4
Gielie			20	30	35	15	20	10	10	20	171	10	5	5		2 5	5	5	7}
Guissa								•		•		•		•	,				
Hope Town		12	20	20	25	9	18								•	٠			•
Kursiong & Derj	peling			4	•	74	5	5	•	4	5	**	are.						
Margaret's Hope		10	173	15	15	10	15	25	12}	12	9	5	71/2	9	,100h	23	21	4	4
Min	•		5	15	121	10	10	15	10	15	15	16	•	8	5	122	5	10	12}
Nagri Farm	10	15	40	40	35	30	30	30	30	. 40	40	30	20	20	10	15	10	171	10
Okayti	28	60	65	45	80	12	22点	221	25	40	45	45	40	30	15	40	30	30	45
Pashok		8	30	50	50	40	60	40	20	20	10	72		71	2	5	5	10	61
Pesteng				8	10	10	121	15	15	15	15	73	5	7}	5	15	10	71	10
Pussimbing			10	. 15	20	•	5	5	-	•	10						•		
Rungles Runguot		15	40	45	50	50	60	60	60	60	60	45	25	39	25	45	35	45	35
Singell	*		42	10	20	9	12	14	71	12	15	7	对	6	2	3	•	2	
Seeyok									5	· 🚗	*	5	10	10	. 5	9	5	71	5
Sington			25	30	45	22½	30	30	12	***	5	•							71
Soon		21	10	15	171	172	15	20	72	10	72	5	-	10	5	7	5	10	5
Sungma		10	37.5	40	55	35	10	15	221	10	5	•	•	5	*	2	21	4	5
Teasta Valley		20	25	45	60	40	40	50	271	30	30	20	10	20	15	173	174	20	171
Tigihannah				40	39	-	**	25											

Tukvoz

Tunsong

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	Server TIPSTS	.	
,			

Name of the Co.	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Alyne Apthemera Accruttipers	20	20	20	60 40	60 50	30	30	10 40	20	10	10					2}	5	71	5
Ballacherra			30	65	80	. 4D	3 9	25		5									
Central Cacher Chundypore Chundi Cherra			7 20 5	19 35 10	12½ 25 7ģ	1½ 8 4	1½ 15 4	1½ 20	5 10					5 7½	2) 2)	2) 2)	4	9 9	2½ 2½
Dauracherra Eastern Cacher Hattikhira Ingamara	·	12	12 20	22 35 10	17½ 40 20	2½ 7½ 22½ 10	5 10 25 10	7½ 10 25 8	2) 5 5 6					5 10	2½ 10	2½ 5 7½	9 9 12}	74 74 15	
Kalacherra Kauti Kallincher & Khoro Kedala Kyang Kuchunpara	el.	5	60 10	10 90 20 20	9 50 25 20	10 30	5 4 10 20	7½ 10 10 10 45	2) 5 25	40 7 <u>3</u>	223		- 2½	9 5 10 2½ 10	7½ 10 5	9 10 7½ 7½	7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	7	10 5
Lalka Toorah Loobah Maulvia		71	25	40	35 15	173 73	15 5	30 10	10	\$						5	5	12	11
New Semangarh N.W. Cachar Oodalesh			5 25 6	75 60 25	50 40 22	50 30 15	45 30 12	55 30 8	40 15	15 10	-		7	5 10	10	12			
Patrakola Rajnagar Roopcharra		30	60	60 20 90	100 20 20		100 5 20	100 10 10	80	40	10	10	25	80	55	55	65	80 2 2	è 2
Rungmates Rutema Sonairiver			30 10	75 30 73	100 50 50	80 20 25	60 \$5 30	60 35 30	20 5 20	3	•	**	10	50	30 10	30 10	5	40 10 12	35 7
South Cathar Telispers		5	40	50	10 60	60	50	55	30	10	7	} 5	15	40	40	25	30	37	- 7 <u>1</u> 32
Kornafuli Tilkah				30	50	20	17) 20	27 30	5					10 5		5 } 5) 10 7 <u>}</u> 6

Source : Investors' India Yearbook.

Table 2.6(b)

Ordinary Dividend per cent per engum paid by the Sterling Companies

Name of the Co.	District	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
111ynugga r	· E.	90	50	50	12	39	19	•	5	15	35	29	25	30
Amalgamated	A.C.E.F.G.	35	35	37}	71	172	7	5	•	-	61	21	4	4
A S 多有的	A.	25	20	14	•	15	7½	21	*	***	5	-	4	4
Assam Docars	A.D.	50	50	45	10	371	75	10	10	10	30	25	25	30
Assam Frontier	A.	60	12	73	•	71	6	•	-		13	-	-	13
Bagracote	D.	30	30	30	71	20	20	72	5	3	10	5	8	12
engal United	A.D.C.	30	30	20	10	71	-	*	100	**	-	-	-	-
Budla Seta	Α.,	60	55	50	***	50	20	5	6	8	6	4	7	5
Cachar and Docars	8.D.	40	40	25	10	5	-	.	•	*	5	-	4	5
hargole	Ε.	-	-1000	**	-	***	•	₩ .	.	***	***	-	•••	-
Chul e	D.	30	30	30	7	25	25	15	6	6	15	8	12	14
consolidated tea	A.C.D.F.	70	30	30	5	22 1	5	21	***	***	15	9	10	10
Dangva Jhar	D.	15	15	5	- 2	73	9	***	-	*	5	9	5	7
Docara	0.	403	40	40	10	10	187	21	-		15	7	15	121
Doom Dooma	A.	55	40	30	10	30	30	20	10	2	123	5	15	122
Empire of India	A-D-	351	272	182	7}	182	10	21	100	***	5	21	8	9
Halem	A.	40	221	17	10	15		**	***	22	10	5	10	7}
Imperial	A.B.D.E.	30	15	20	10	15	71	-	**	***	21	-	-	6
Jhanzie	A.	45	40	40	10	40	15	10	4	3	8	27	7}	6
Jokal	A.	45	37分	40	10	30	174	4	2)	4	123	21	10	8
Jorhet	A.	50	40	35	-	271	20	10	5	-	15	5	10	8
Kanan Devan Hills	A.G.	30	371	37分	7}	35	20	10	121	71	15	122	123	12
.uskerpors	Ε.	10	15	71	**	5		•	5	10	30	20	20	20
Lesahriver	D.	35	35	35	10	39	35	10			9	5	6	7
Makus	A.	30	30	30	-	22	22	9	**	-	10	4	10	10
Meengles	D.	25	30	30	71	20	20	10	5	5	20	121		129
Needem	0.	40	20	15	10	10	10	-	•	-	23	5	9	6

Source : Investors' India Yearbook.

Second, an important espect of the income movements has been that superimposed on the regional tendencies there has been tendency of certain managing agents to pay dividends more or less consistently. Durjosling is an exceptional case where all managing agents have paid dividends more or less regularly. Duncan Brothers and Andrew Yule, which were the dominant managing agents in Doosre paid dividends regularly in all regions, even in Assam where the dominant agents Williamson and Nagor did not pay dividends during slumps. A possible explanation may be the inter-regional flow of funds through the apex administrative body of the managing agent and payment of dividends depended on how closely the shares in the managing agency were held.

Third, despite the qualitative differences in the control schemes, their impact on the industry showed little difference. The reason was the export orientation of the industry. The prices were determined not so much by the quantity of output in India, but by the export of tes to the U.K. and whichever way the control schemes sought to attack the problem, it was with an eye to the British market. Therefore, although the first two schemes tried to exercise control on the production side, the determination of how much curtailment should be made in output was with respect to the external market alone. Although the first two schemes had qualitatively differed from the International Tes Agreement which attacked the problem from the export side, all three showed similar results regarding changes in acreage, regulation of output and income movements.

Section (IV)

The frequency of alumps in the period under review points to the failure of the control schemes to generate a permanent solution. This is largely attributed to the supply oriented solution sought by the industry. Demand was viewed to be concentrated in the United Kingdom and the entire mechanism was to gear the production system to the demand in the British market. Attempts were made to develop alternative export markets in the U.S.A. and the European Continent, but the internal market which could have provided a viable alternative did not become very important till about the end of the 1930s. In other words, control system was a byproduct of the built—in export bias of the Indian Tea Industry. Comparison of the consumption figures for the U.K., the U.S.A., the U.S.A., and India provide an interesting picture. (Table 2.7). W.D. Wickizer writes —

"Until a little over a decade ago, tea producers in India, Ceylon and Netherlands' Indias paid little attention to domestic markets. There was no real problem of surplus producing capacity until the late 1920s. The Western demand for tea was most important and the Western markets were generally more profitable".

Ouring the world economic depression the altuation changed radically. Not only was the export demand for tropical products drestically reduced, there was a growing substitution in favour of coffee and soft drinks in the U.S.A., Canada and Australia. India and Caylon began to look to the home market for absorption of the

¹ V.D. Wickizer, opecites p. 53.

Table 2.7(a)

Consumption of tea in million lbs.

1930-34	1935-39
442.3	443.0
85.6	87.7
46.7	37.5
51.1	88.0
	442.3 86.6 46.7

Source : V.D. Wickizer - "Coffee, Tea and Cocoa".

Table 2.7(b)

Consumption of Tea in India in Million 1ba.

Year	Consumption
1920	90
1929-30	. 65
1930-31	49
1931-32	63
1932-37	63
1932-33	66
1933-34	70
1934-35	83
1935-36	61
1936-37	91
1937-38	96
1938-39	82
1939-40	106
1945-42	102
942-53	129
1943-44	193

Source : Indian Tea Statistics.

tes supplies which had started to accumulate as surplus. Although some attention had been paid to the domestic market during the first World War, serious efforts to develop these markets through consumer propagands were not undertaken until the 1930s. When the Indian Tes Cess Conmittee was spending £ 50,000 annually on advertising in America with apparently little to show for it, considerable success was reported as a result of the £ 45,000 appropriation for advertising in India in early 1930s. A brief historical review will help to show the importance of consumer propagands in building up a strong domestic market in India and the way the potential domestic market had been neglected until it became absolutely necessary for the maintenance of tea incomes.

A sub-committee appointed by the Indian Tea Association in 1901 drew up a schame which provided for a distributing agency to be known as the Indian Tea Market Expansion Commission. A grant of Rs, 400,000 was made from the American and foreign market expansion fund of the Indian Tea Association. The attention of the commission was directed mainly to India. The Bub-Committee concluded on the basis of enquiries made regarding the potential sources of demand - In the upper provinces the demand is probably the greatest. There is little doubt that large quantities of Tea might be disposed of in the principal northern centres of Oshi, Compore, Lucknow, Agra, Maszut, Amritaar, Umbala and else where. It is also asserted by dealers and others that tea could be extensively sold at the chief junctions and terminal stations

^{1 &}lt;u>Economist</u>, Oct. 31, 1931, p. 801.

in the Punjab, the North-Western Provinces and in Bengal. Other parts of the country to which the attention of the sub-committee has been drawn by a most competent authority are the districts of Eastern Bengal and Western Punjab. In Eastern Bengal there is a population of approximately 25 millions of Mohammedans. They are well-to-do agriculturists and are said to be better able to afford small comforts such as tes then any other rural population in India proper. The Western Punjab is also a promising field. The people there number to 10 to 12 millions. They are practically all Mohammedans and will, it is stated, readily take tes if they can procure it. The markets of Southern India - where the Travancore planters will co-operate with the Agency - are likewise reported to be capable of development.

The Indian Tea Market Expansion Commission undertook some vigourous campaign work, the chief mathed adopted being the distribution
of "pice packets" to bring tea within the reach of the poorer sections of the society. A monthly prize distribution was arranged in
connection with the packets which became quite popular. Attempts were
made to establish tea service on principal railway lines. However,
it was not possible to obtain reliable accounts from the individual
vendors although there was no doubt that a considerable quantity of
tea was sold and not reported. Demonstration was also arranged at
fairs, and the campaign was also extended to the coronation festivities
at Delhi and at Calcutta. Daily distribution of brawed tea was arranged
to government and mercentile offices and night services were arranged
outside theatres.

¹ P. Griffiths, op.cit., p. 592-23.

Tes packets containing about ons-third ounce which were sold for one pice each.

This came to an end in 1904 when the Indian Tea Ceas Committee took over. The Indian Tea Association reported -

"It cannot be expected that the results of the three years of working indicate the existence of a proper teamsteat in India".

About 739,000 pounds of tee had been sold in three years.

A few years later, the Indian Tea Gess Committee commissioned Mesers. Lyall, Marshell & Co. to work on their behelf in India, so that good tea could be brought within the reach of all classes of the population. Work began in July 1907 and was continued till August 1908. The area covered was 3592 square miles, within which 710 villages were visited and only 4650 pounds of tea was sold. Another attempt in 1909 to promote the sale of compressed tea was similarly abandoned due to limited success. According to Griffiths, the main cause of the failure of the tea propaganda was - "The lack of initiative and originality and it is far from easy to understand shy no attempts were made to try once again the vigourous measures of the old Indian Tea Market Expension Commission".

During the War expansion of tea propagands in the export market became negligible and attention was focussed on India. In 1915 the Indian Tea Association appointed H.W. Newby, the manager of the Calcutta branch of Lipton Ltd. as the Commissioner, Pice packets once again became an essential feature of the campaign. In 1921 Newby reported that 65 towns had reached a stage when no further attempts could push tee sales. Later experience and statistical examination suggests that

P. Geiffiths, opecites p. 601.

this was an examperation. However, the sum spent on the Indian campaign increased from Rupses 1/2 lakh in 1915 to B. 42 lakhs in 1920. In 1922 Newby handed over his work to his assistant John Harper. The campaign proceeded as before with increasing attention to the Railways and to stop the growing trade in tex unfit for human consumption. In 1926-27, Herper estimated that by the end of the year tem drinking would have been satisfactorily established in 90 per cent of the small towns in Central India, the United Provinces and in Bihar and Orissa. However, when more rigourous statistical methods were applied in the late thirties, the average annual consumption in the small towns of the provinces neme was found to be very low. In /report of the Indian Tee Cess Committee for 1927-28, the criterion which justified discontinuance of sork in any particular area was thus defined: "It is discontinued only when (a) good stocks are available (b) tea is available in all parts of the town (c) tem is extensively advertised in all parts of the town (d) stockers are familiar with the sources of supply (e) pice packet sellers know the dealers from whom the supplies are available (f) demonstration are being held in every quarter of the town (g) both stockers and pice packet sellers know how to keep their supplies properly (h) at least 50 per cent of the inhabitants are tea drinkers".

Griffiths rightly points out - "If tea drinkers are given a reasonable definition it is doubtful if any towns in the provinces concerned could have satisfied the driterion". 2

^{1 &}lt;u>Ibide</u>, p. 607.

^{2 &}lt;u>Ibid.</u> p. 608.

However, Newby and Harper built up a certain confidence in the campaign and in 1931 the expenditure stood at No. 72 lakhes

In 1932 Milligan, who was the adviser to the India Tea Associetion became the brain behind tea propaganda. Attention was particularly directed to factories and mills, establishments of tea shops, railway work and to informative publicity on tea in achools in Bengal. The new policy was to take tea to the prospective drinkers instead of waiting for them to come to the tea meas centres. Work was concentrated rather than widely extended. In 1936 this intensification of work. together with the more ecientific approach necessitated the establishment of a staff training school. A publicity officer was appointed to organise publicity in the Indian language necepagers. In 1937 distribution of liquid tes reached an impressive figure of 26 million cups as compared with 10 millions in the previous year. 8 million pice packets were sold. The campaign was stepped up to persuade the local process to stock pice packets. The results were encouraging and wherever too case propagands was conducted new dealers in dry and liquid tes appeared. In 1937 the Tea Market Expansion Board came into being and tea propagande entered a new phase.

A reference to the table will show the remarkable chievament of tea propaganda in the 1930s. A market which had expanded by only 19 million pounds in the 1920s had an annual increase of 13 million pounds for 1934-35. Vickizer wrote in the 1940s -

"India has already become the second most important outlet for black teas, now consuming annually over 100 million pounds of her own production. On a per capita basis however this huge quantity is equivalent to not much more than a quarter of a pound for each man, woman and child. The development of the industry was by European interests, who were chiefly concerned with exploiting the Western markets. The start was the start w

Given the price and income electicities, India was a far better potential market even in the twenties. From the market expansion compaign it is obvious that more could have been achieved if a more efficient campaign had been directed to the Indian market. The strength of the campaigning programme, which had been weak in the 1920s, picked up in the 1930s and its importance is spelt out by the results achieved. The failure of the control system to generate stability in prices in it is interest period lies greatly in the export erientation of the industry. It was only during the 1930s that the recession in the international market forced the industry to look for a home market. If the process had started earlier, during the Great Depression industry could have enjoyed the support of a large home market to cushion the effect of over-supply in the export markets. Given the atructure of demand in the home market, the increased in the supply of common tea (through coarse plucking) could also be absorbed.

¹ V.D. Wickizer, opecita, p. 54.

APPENDIX I(a)

Ruces Companies

Managing Agent	Region	Name of the Company
Andree Yule & Co.	Asses	Sammatia
		Gillepukri
	•	Hoograjuli
		Rajgazh
		Murphulant
	Dogera	Banazhat
		Choonsbhatti
		Engo
		Jaybirpara
		New Dopar
	:	Red Bank Doomre
		Sarugeon
	Darjesling	Dileren
		Min
. , , , ,		Sington
egg Dunlop & Co.	Assam	Amluckie
		Baghmari.
4		Borah1
,		Dejoo Valley
t.		Titebur
	•	Tyroon
	Donara	Bullabarrie
		Aanikherra
	Darjesling	Margaret*e Hope
		Sungma
		Tirrihannah
•	Cechar &	Roopchurra
•	Sylhet	South Cechar

Cont'd.. Appendix I(a)

Managing Agent	Region	Name of the Company
Duncan Brothers & Co.	Assan	Ledo
		New Cinnetolish
· · · ·		Maheema
	Docate	Sirpara
		Cerron
	•	Ellenbarrie
		Gungeren
,		Hente Pare
		Killcott
		Manabarrie
		Nagai suree
·		Phaskers
	Oarjeeling	Okayti
		Poobong
•	· · · · · · · · · · · · · · · · · · ·	Rungles Rungliot
••	Cachar &	Daurecherra
	Sylhet	N.W. Cachar
•		Patrakola
		Rungmates
ş.		Teliepara
Daverport & Co.	Docars	Belgachi
		Hashimara
		Hundliberi
		Rew Chumta
	Darjeeling	Gulma
		Hope Town
		Pussiabing
		Teesta Valley
	Cachar & Sylhet	Sonei River
Gillenders à Arbuthnot & Co.	Assan	8st jan
		Jutlibari
		Tengpani

Cont'd... Appendix I(a)

Managing Agent	Region	Name of the Company
James Finley & Co.	Assem	Chunseri
		Killing Valley
		Sapoi.
Jardine Skinner & Co.	Docars	8eradighi
		Rydak
	Darjesling	Kureiong and Darjeeling
	Cachar &	Ballacherra
	Sylhet	Central Cachar
		Chundypare
		Kallingher and Khoveel
lilburg Co.	Dooars	New Terai
		Pahargoomiah
	Darjeeling	Peshok
		Darjeeling Yes & Ginchens
	Cachar & Sylhet	Dantamars
		Kornafuli
		Maululo
		Oodaleah
	Assen	Durrung
Maleod & Co.	éssem	Borman Jan
	Dooses	Atel
		Shatkawa
		Rejabhat
	Cachar & Sylhet	Rutema
Dotavius Steel & Co.	Assum	Grab
		Teen Ali
	,	Bagabagh

Cont'd... Appendix I(a)

Meneging Agent	Region	Name of the Company
	Dooare	Loheger
	•	Codlabari
	Cachar &	Alyna Pathemare
	Sylhet	Chundecherra
		Eastern Cechar
		Kelecherra
44 - 1		Kaliti
		Hattikhira
		Loobeth
Planters Stores Agency	Assam	Coolie Koosie
		Dhalekhat
ihaw Wallanca & Co.	Assem	New Purupbari
		Orang
	•	Tezpore
•		Nanburnadi
•. •		Kingaley Golaghat
	Coches &	
	Sylhat	New Samonbagh
***	•	Rajnegar
illiamson & Magrot Cos	Assam	Bateli
		Borpukhuri
		Dimekuahi
		Blahunanth
		East India
		Gorpur
		Rajabarria
•		Smajuli
		Oufflaghur
		Tongani

Cont'd... Appendix I(a)

Managing Agent	Region Name of the Company	
	Docare	Longview
	Darjeeling	Chamong
	•	Negri Ferm
		Scom
		Tukvor
erry & Co.	à SSAM	Bhooleachang
attlewell, Bullen & Co.	Anne	Mothola .
ploutte Tes Association	Darjaeling	Darjeeling Himaleyan
eckillican & Co.	Sylhet	Lecketoorah

Source & Investors India Yearbook.

- 68 APPENDIX I(b)
Sterling Companies

SUPERING CONTRACTOR				
Managing Agent/Secretary	Name of the Company	Region		
Walter Duncan & Co.	Allyungger	£		
James Finley & Co.	Amalgamated	A.C.E.F.G.		
8. Resve	Assam	A		
Walter Duncan & Co.	Assan Docars	A.D.		
R.G. Shaw & Co.	Assem Frontier	A		
Goodricke & Co.	Bagracote	ס		
Well. Dean & Co.	Songel United	A.B.C.E.		
R.G. Shae & Co.	Oudle Seta	A		
MeHe Dean & Co.	Cachar & Donars	8.0.		
P.R. Buchanan & Co.	Chargola	E		
Goodricke & Co.	Chules	Ð		
James Finley & Co.	Consolidated Tea & Land	A.C.D.E.F.		
Goodrickie & Co.	Dangua Jhar	D		
H.L. Turner	Dooare	D		
G.R. Dawsy & Co.	Dogs Dogs	A		
H.L. Turner	Empire of India	A.D.		
Moleco, Russel & Co.	Halam	A		
Moleod Russel & Co.	Imperial	A.8.0.E.		
Alex Lewrie & Co.	Thenzie	A		
Alex Lewrie & Co.	Jokai	A		
Bagg Roberts & Co.	Jorhaut	A		
James Finley & Co.	Kenan Devan Hills	A ₊ G ₊		
Walter Duncan & Co.	Leash River	۵		
R.G. Shaw & Co.	Luskerpora	Ε		
Walter Duncan & Co.	Meangles	A		
Cotavius Steel & Co.	Naeden	D		
5.M. Jack	Makum	D		

A - A-see

8 - Cochar

C - Darjeeling

D = Doomre

s sylhet

m Ceylon

G - South India

Source: Investors' India Yearbook.

CHAPTER III

Coffee Industry in Brazil & The Valorization Scheme in the interser period

The intermar period see a crimie in the coffee industry in Brazil brought about by over-production.

Brazil's formula of solving the crisis came to be known as "Valorization of Coffee". Essentially, the policy consisted of following a balance between supply and demand through financing the withdrawal of a part of the coffee stocks from the world market and thereby giving an artificial support to prices. The inventories thus built up were to be pumped back into the market when demand started picking up in the importing countries or to smooth out downward fluctuations in supply in years of poor output. V.D. Wickizer writes -

The time factor of preduction is perhaps the characteristic of greatest economic importance in coffee culture. Although within resonable limits production is a known quantity, it cannot be controlled; yet some substitutes for direct control of production assess necessary if serious maledjustments are to be avoided in supply-demand relationships."

The "Valorisation" formula consisted of the Government intervening in the market to purchase surplus stocks. This was financed by foreign loans and a new tex was levied on every bag of coffee experted to raise the finance for the servicing of these loans.

Valorization is a term derived from the verb "Valorizar", which in Portuguese means fixing of price.

² V.D. Weickiger, World Coffee Economy, P49

The first attempt at valorization was made by the coffee grosing state of Seo Paulo in the first decade of the twentieth century when prices showed a downward trend, coffee stocks were rising and further depreciation of the currency to cushion the fall in prices was not possible. It was equin undertaken when the 1917 when blockade of Central American market and the cleavre of the markets in the allied countries led to excess supply and for the third time in 1920-21 after the colleges of the war boom. But valorization did not become a regular feature of the industry till 1924. The period 1924 to 1939. has been termed as the period of "permanent defense." This had two phases. The first phase was characterised by regulation of the movement of coffee from interior Brazil to the ports. Since 1924 stocks held in interior Brazil have been an important factor in anoregate supplies and that portion of supply termed "visible stocks" has had restricted meaning. Before 1924 stocks were accumulated at Brazilian ports in sufficient volumes to meet the varied demand in terms of grade and quality. When control was instituted over movement of coffee from the interior to the ports, atopks at the ports were reduced by more than half and the buyers became dependent upon the release of interior stocks by Coffse Defense Administration.

Changes in world coffee stocks explain the price trend in coffee. World "visible" coffee stocks, a term which refers to stocks built up by traders in the expert market to smooth out a part of the fluctuations in supply, were relatively low in 1923. Between 1918 and

¹ V.D. Wickizer, <u>World Coffee Economy</u>. Food Research Institute, Stanford, 1949, p. 143.

1923, "visible supplies" averaged about 40 per cent of annual consumption requirements. Thereafter the stocks began to increase from about five months' consumption requirements until they reached a pack proportion during the 1930s, when stocks averaged fifteen months' requirements.

A succession of record breaking crops in 1929-30, 193031 and 1931-32 created an unparalleled situation. 1931 saw the beginning of the coffee destruction programme, the second phase of "permanent defense". The problem of over production was sought to be handled by destruction of output since at this stage even the stocks built up in the interior could not expect a viable market outlet within the foreseable time horizon. Destruction of coffee stocks continued till the end of the interest period.

The success of the valorization schame (one is overlooking its obvious drawbacks for the time being) has to be measured by the extent to which it helped to support coffee prices. For this there has to be a positive relation between the withdrawal from the market and price appearant.

The following eaction gives a statistical break up of the effect of withdrawal of coffee stocks on coffee prices. For a positive impact, the change in withdrawal of stocks must bear a definite relation to change in prices.

I have quantified the mithdrawal of supplies of coffee from the international market as the sum of the stocks held in interior Brazil and the stocks satually destroyed. "Visible" supplies which also form a part of the world coffee stocks have not been considered because building up of such stocks by traders has been a part of the industry since its inception and fluctuations in such stocks signify an attempt on the part of the traders to smooth out sharp fluctuations in prices which are bound to take place for a crop which shows on inherent irregularity of production. The coffee crop is extremely vulnerable to natural factors, a point which will be discussed in the context of the sconomics of coffee production later in this chapter. On account of concentration in one country, fluctuations in putput arising out of natural factors are enhanced.

Table 3.4 shows that withdrawal of coffee stocks from the market increased gradually upto 1927; it almost doubled between 1927 and 1928 and kept on increasing upto 1932. Thereafter withdrawal of coffee stocks show a decline for a few years to be followed by sudden jumps in 1936 and 1937. One cannot, arrive at any definite relation between the change in withdrawal of coffee stocks and the change in coffee prices. Between 1924 and 1937, only in four years have an increased withdrawal from the market brought about a definite rise in price even in these years no definite conclusion can be drawn regarding how much withdrawal is required to result in a certain change in price. In all other years prices have declined irrespective of the direction of change in withdrawal of coffee stocks. Therefore, it is not possible to show a correlation between withdrawal of coffee stocks and price movements.

Table 3.1

Year	World stocks visible supply		ffee from the Market os of 60 Kg.) Destruction in Orazil	Total with- drawal.	Change in withdrawal	Change in price
1924	4.9	2.8		2.8	***	***
1925	5.1	2.8		. 2.8	***	+ 3.3
1926	4.6	4.5		4.5	+ 1.7	- 2.1
1927	4.6	6.8		6.8	+ 2.3	- 3.6
1928	5.2	13-5		13.5	+ 6.7	+ 4.7
1929	5.2	13.4		13.4	- 0.1	- 1.1
1930	5.3	25,0		25.0	+11.6	- B.9
1931	6.3	26.2	2.8	29.0	+ 4.0	- 4.4
1932	5.5	28.0	9,3	37.9	+ 8.9	+ 1.9
1933	6,3	19.0	13.9	32.9	- 5.0	- 1.5
1934	7.9	18.3	6.2	26.5	- 6.4	+ 2.0
1935	7-4	18.5	1.7	20-2	- 6.3	- 2.3
1936	7.9	21.3	3.7	25.0	+ 4.8	+ 0.4
1937	7.7	24.0	17.2	41.2	+16.2	+ 1.8

Source : V.D. Wickizer, World Coffee Economy, Food Research Institute, Stanford, 1949.

^{* :} Total withdrawal is the sum of the stocks piled up in Brazil and the stocks destroyed.

The conclusion to shich this enalysis leads to is that this valorization scheme, at least, prevented a sustained and more rapid declins in coffee prices during the interest period and since withdrawals represent ower-production, it is possible to say that sithout this control acheme, prices would not have shown an increase even in particular years. In other words, the control scheme in Brazil's coffee industry affected the trend in price movement. Therefore, the valorization scheme merely postpaned the crisis in the coffee industry by maintaining prices artificially and when the support was withdrawn in 1938, coffee prices crashed in the world market leading to far reaching changes in Brazil's coffee sector as well as in the entire crientation of her economy. "The dynamic centre in Brazil finally shifted away from "King coffee".

11

There are two related questions -

- (a) What made valerization possible?
- (b) Why did Brazil choose such a mechanism?

To ensure these questions our will have to take account of the economics of coffee production, the position of Brazil in the world coffee industry and the political apparatus which lead to the operation of the scheme. In this chapter, I propose to deal with only the economic fectors. The non-economic factors, which are of considerable importance in the formulation of Governmental policies, will be discussed in enother chapter.

The first aspect to be taken up will be Brazil's position internationally since it is obvious that unless Brazilian coffee was in a
position to determine world prices such a step could not have been
undertaken. There are two sides of this problem. Firstly, the monopoly position of Brazil as far as world production and world exports
are considered. Secondly, the quality of Brazilian coffee which makes
it the marginal determinent of world prices.

Brazil's share in world production was 65 per cent in 1920 and 64 per cent in world exports.

Secondly, Brazilian coffee is one of the three varieties of coffee sold in the world market. Broadly speaking milds, one of the other two varieties, are the coffees of the central and South American producing countries other than Brazil, of KenyasTanganyika and of certain other places in Africa and these are superior in quality to the great bulk of brazils. Both milds and brazile are grown from the same variety of coffee tree, which grows in the subtropical regions, the difference arising from differences in climatic conditions, cultivation and preparation. The third category, known as Robustes, comes from a different variety of coffee tree growing in the tropical areas. This was grown throughout the Portuguese and French territories of Africa and mostly in Uganda.

The milds always command a price premium over brazile because of its quality and are bought up in the world market in preference to brazile, which are usually blended with the milds in sufficient propor-

¹ A term used to refer to the variety of coffee produced in Brazil.

tion to give roasted coffees of "ecceptable quality at acceptable prices." On the other hand Robustas Cater only to a particular taste and finds consumers only in cartain European countries. Therefore, in a sense, the world would only demand from Brazil what the mild countries cannot supply.

"The demand for brazil's is a residuary or marginal demand and thus it is that the supply and demand for brazils' sets the general price level of all coffees. Since demand does not vary very much in the short period, it is therefore the size of the Brazilian crop or the amount offered for sale, which determines the price level from year to year." 3.84.6 Rose.

Therefore, what made valorization a viable possibility was price determining position of Brazil in the world coffee market as the monopoly producer of coffee and her sepecity as producer of a particular variety of coffee which enjoys a residuary demand.

The second factor which contributed to the adoption of the valorization was the very nature of the coffee product.

The coffee tree has a life cycle during which it grows to maturity, reaches maximum bearing and then gradually declines in productivity until its yield is insufficient. During this cycle it alternately produces a large crop and gets exhausted over a period of two to three years, though this is by no means fixed and may be lenghtened by damage due to frost, cold meather or draught which requires a longer recovery period. Though the yield of the coffee

¹ J.W.F., Rowe, World's Coffee, London, 1963, p. 24.

^{2 &}lt;u>Ibide, p. 24.</u>

tree is strongly influenced by weather, yet favourable weather elone will not produce a bumper crop unless it happens to coincide with the rested period in the health cycle of the coffee tree.

of the crop, the uncertainties of weather, and the particular phase of the life and health cycle of the trees, variables of such magnitude are introduced that no practical possibility exists of adjusting production to short term surpluses or shortages of supplies and in this context regulation of coffee stocks to the market seems a better alternative than control over production. In fact, this was probably the principle applied when valorization was undertaken in 1920-21.

"By coffee defense, Brazilians mean the nautralisation of the influence of crop variation on the short period prices received by producers : There has never been any intention of trying to raise the long period equilibrium price paid by the consumer... Brazil did, in fact, blunder into a policy which temporarily raised the consumer's price for higher than what it ought to have been, ... in doing so Brazil stepped into the shoes of monopoly quite unconclously and was therefore most surprised when retribution smiftly followed".

Another factor, though not a determinant of the scheme, but which made valorization a viable control scheme is the character of the coffee product itself. Coffee can be stored in the green or raw state for sufficiently long periods to make the manipulation of stocks possible.

¹ J.W.F. Rows, "Brazilian Coffee", p. 6.

This takes one to the first question - why did the Government adopt the destruction programme?

Brazil wasacountry which had associated prosperity with a series of export booms intropical products - sugar, tobacco, cotton, rubber and coffee. Most manufactured durable goods, industrial equipment, metallic raw materials and even feul had been imported. A plantation system operated by slave labour until 1888, had delayed the development of a domestic market, of a mobile working class and of entreprensur groups. With population and sconomic life concentrated upon the esa coast Grazil's sconomic life in 1939 was still regional rather than national.

"During the depression years Varga's policy had emphasized increasing exports. The substitution of domestic manufacturers for foreign imports did not have high priority and though the devalued exchanges did give defect protection to industry, the purpose of Vargas' exchange policy was to keep up delay payments and to cover imports. As the decade were on, payments problems continued and international politics become increasingly important in trade policy. Thus the trade tangle revealed clearly the problems of dangers of relying heavily on exports. An alternative to the doctrine of comparative advantage was domestic industrial growth".

¹ Vargas assumed political power in Grazil in 1930 by overthrowing the regime dominated by See Patto Coffee Planters.

² J.D. Wirth, The Politics of Brazilian Development, p. 43.

Therefore even in the 1930s the same old pattern persisted. The protection of coffee market and provision of new exports were seen as the password to economic growth by the revolutionary Government. More than forty commercial agreements were negotiated on an unrestricted, most favoured nation basis. Under pressure from monetary disequilibrium and declining trade Brazil followed the international trend towards exchange controls, import restrictions and protective tariffs.

Though higher tariffs gave defects protection to her industries, the major aim was to restore balance of payments equilibrium. In mid 1934, following the stabilization of export values and arrangements with creditors to make payments of commercial arrears, the Government moved to unfreeze exchange and simplify tariff. The basic aims of Vargas' Government as put forward by him after his victory, remained - "intensification of production by diversification of agriculture, a policy of international economic cooperation and a general plan for development of railways and high ways for the whole country". Industrialization was not one of the priorities.

However, even if the Government had sixed at import substitution industrialization, the industrial structure in Brazil in the early 1930s could hardly be eaid to be poised for growth through tariff. The sport of growth during World War First, when Brazil found it difficult to meet her internal consumption requirements, had led to a 193 per cent increase in industrial production. But it cannot be said that the phase of industrial growth had begun. The majority of the establish-

H. Walker, The Varges Regime in L.F. Hill (ed.), Respile, p. 109.

ments were medium or small sixed with the predominance of those linked directly to agricultural activities. The principal characteratic of this phase was lack of heavy industry and the entire industrial structure depended on imports.

During the 1920s, the availability of cheap industrial goods from the West hindred further development of the industrial structure.

Industrial production stagnated between 1923 and 1930s. Coffee supported Grazil's economy. Therefore, to embark on a programme of import substitution industrialization would require the development of certain heavy industries and large scale import of machinery. Coffee, as the principal export crop had to play a dominant role in this respect.

Therefore, any plans of the Government to build up an industrial base would require maintenance of export earnings from coffee.

In short, the entire mode of operation of economic policy in Brazil in the interwar period showed that the country was still geared to the achievement of economic growth through expansion in exports and the economic structure of Brazil with its excessive dependence on coffee, placed basic restrictions on the Government's freedom to manowave.

It was not as if Brazil did not attempt at echieving something like the International Tea Agreement of 1933 which would have helped her to maintain her share in the world market. In 1931, an international Coffee Congress was called by the Brazilian Government to discuss the world coffee mituation with other coffee producing countries of South and Central America and the U.S.A., Britain, Portugal and

Holiand were invited to attend. This was the second meeting of its kind since the conference held in New York in 1902 in which the Latin American countries and the U.S.A. had participated. But this failed to produce an International Coffee Agreement of the kind which would have protected Brazilian interests. <u>Business week</u> of 23 rd May 1931, reported —

"The International Coffee Conference which opened in Sec Paulo on May 17, has so far failed to arouse more than a very mild degree of interest in the outside world for the simple reason that no one expects it to accomplish much Brazil's apparent purpose in calling the meeting was to stablize the price of coffee through the satablishment of a world cartal, its own measures having failed. The Brezilian programme, outlined at the first business session of the Sao Paulo Conference, provides for limitation of the output of each producing country. fixing of prices, levy of a tex of a pound for an International Coffee advertising fund and establishment of a commission with power to revise production quetas. But whatever hopes the Brazilian Government way entertain, over production, as the root cause of the coffee depression is after-all not an international, but a Brazilian problem. Practically the only coffee overproduced is Brazilian coffee. The other countries are not troubled with surplus stocks and indoing by the increasing demand for mild coffees, feel that they would be justified in increasing their production."

In a situation, where high prices for Brazilian coffee led to smaller premium for milds than when the price of brazils is low, the price support schemes helped to maintain prices of Brazilian coffee et an artificially high level and thereby destroyed the advantages on which the market for Brazilian coffee was found. This led to Brazil yielding a part of her market to mild producing countries. Therefore, faced with the prospect of an expanding market the mild producing countries could not be expected to limit production. Over production was essentially Grazil's own problem and she had to find her own way of dealing with it.

III

The economic effects of the valorization of coffee can be best summarized as follows:

"The fall of king coffee was a momentous event because it irrevocably shaped the future events in Brazil in at least four major ways.

It stimulated agricultural diversification towards other export crops
such as cotton and toward products for the domestic market. It
reduced export earnings and the capacity to import, encouraging domestic production as a substitution for importe. It diverted investment
flows previously going to the highly profitable coffee sector into
industry. It unlocked the long time stranglehold that coffee policy
had on the time and energy of Government officials and opened the way
for industrialization and broad development issues to begin receiving
Government attention. In fact, it could be argued that the fall of
"King Coffee" was a necessary condition for Brazil to begin an affiremative and broad drive for development."

The very condition which gave Srazil a comparative advantage in coffee, spelled trouble. The abundant supply of land and labour laid the conditions for ever production in the world market. The stabilization of coffee prices gave an artificial support to profite in the coffee sector and prevented diversification of economic activity.

¹ S.H. Robock. Brazil : A Study in Development Progress. D. 22.

J. Bergsman, <u>Brazil : Industrialisation and Teads Policies</u>, p. 21-22.

when a shortege of imported goods created new avenues for profitable investment. But in the first decade of the interwar period valorization of coffee resulted in coffee remaining the most profitable activity and it was only with the collepse of the world coffee market in 1929 that the aconomy managed to shift its resources away from coffee towards a more diversified economic structure in terms of agricultural as well as industrial activities. Between 1915 and the 1930s, Brazil's production was approximately 30 per cent industrial and 70 per cent agricultural and pastoral. Coffee accounted for 71 per cent of the total value of exports in 1929.

Whatevere the changes which took place with the collepse of the world coffee market?

Consider the agricultural sector first. The following table shows the production dynamics in the cotton belt in Brazil.

Table 3.2
Production of Cotton in Tone

			•	
1930	1925	1 -	1938	
11,418	117,207		300,000	

Source : J.D. Wirth, The Politics of Brazilian Development.

Genzert, Industry, Commerce and Finance in L.F. Hill (ed.), Brazil 1947, p. 256.

² R.E. Cerleon, <u>Brazil's Rois in International Trade</u>; in . District in t. Lynnamith' and A. Marchant (ed.), Barzil: Portrait of half a continent, New York, 1951, p. 278.

Cotton is grown in practically every state in Brezil. During the 1930s Sec Paulo became a dominant producer of cotton. Production in Southern Brazil increased from 15 per cent of the total Brazilian production in 1930-31 to 82 per cent in 1944.

Though the foundation for expansion of cotton production were laid during the 1920s through the work of the State Agriculture Institute, the spectacular increase in production tak place in the 1930s following the decline of coffee prices. Cotton was planted between rows of coffee and in the old coffee zones, it sometimes replaced coffee on fazendas when production was becoming unprofitable. In the new areas of Western Sao Peulo coffee was planted on the ridges and cotton in the valleys. The main expansion in production was in cotton as an alternative export crop to coffee. There was substitution both by the extent of cultivation and the mobility of the factors of production. By 1935 cotton had become the second most important item in exports. Table 3.3 shows the changes in the percentage share of exports of coffee and cotton between 1925 and 1938.

Wirth, Wrightcand IdMidriff, Brazil. an expanding economy, p. 70.

² A term used to refer to large agricultural estates in Brazil.

³ Wirth, Wright and Midriff, precites p. 72.

Table 3.3
Percentage share in total exports

	1913	1923	1929	1938
Coffee	62.3	64.3	71.0	45.0
Cotton	3.9	3.6	4.0	18.2

Source : D.T. Veirs, Industrialization in Grazil in T.L. Smith and A. Marchent (ed.), <u>Brazil: Potrait of half a Continent.</u>

The industrial sector also showed rapid development in this period. Between 1935 and 1945, the value of industrial output came to surpass that of agricultural production. In 1938 industrial production was valued at more than \$ 1,000,000,000, and agricultural output at \$ 4440,000,000. Brazil had become the most industrialized country in South America.

The interwar period in Grazil, therefore, marks on important

phase in her economic development. The crisis in the coffee industry

resulted in an attempt to stabilize prices and incomes and through

this postponed the restructuring of the Brazilian economy. However valorization of Coffee leid the foundation for the change. By

taking advantage of her position as a monopolist in the world market,

times

Brazil yielded a share of her market to her Compoting and at the same

times prevented reallocation of resources to other sectors. This inten
sified the crisis in the coffee economy and as a result a rapid

import-substitution industrialization took place in the 1930s.

¹ U.N. Economic Commission for Latin America. Report. p. 230.

CHAPTER IV

The Politics of Stabilization Programmes in the Inter-

The organization of the Indian tee industry and the Brazilian coffee industry in large plantations, contributed to the emergence of the plantars as a strong pressure group. In Brazil the plantars lobby became particularly dominant using to the structure of the economy iteeslf which gave tramendous weightage to coffee production. In the case of the Indian tee industry, its organization in joint stock compenies which were controlled by a few managing agents paved the way for British interests to act as a strong tee lobby.

In this chapter I shall try to evaluate the role of these noneconomic fectors in the formation and the functioning of the stabilimation programmes. My aim will be to find out the extent to which
these pressure groups were able to influence policy decisions towards
the respective plantation industries and thereby use the stabilization
schemes as a means of furthering their own interests.

1

"Brazil's sconomic history is a series of sensational accomplishments, characterised by a sequence of amazing fluctuations. It is, in

¹ According to the Plantation Enquiry Committee Report, (1956), seven top managing agency houses controlled 50 per cent of the acreage under tea.

fact the story of appearance and disappearance of entire economic systems on which a nation bases its existence. Its chief characteristic is the consistent change in the nature of the product, which we may term the "king product."

The history of Babzil's economy is characterised by six such cycles, each following the same pattern, in which the commodity in question acquired the leading position in world production and declined to insignificance as a result of competition from other producing ereas. During the cycle, this particular 'product' determined the course of development of the Brazilian economy.

The first cycle began in 1500 with the dyewood industry and till 1600 this constituted the entire economic basis of the Portuguese colony. Towards the end of the Seventeenth century sugar cans started to develop as the "king product" and the eighteenth century may be identified as the sugar cycle. With the development of West Indian sugar plantations Brazil lost her dominant position in this world marked and the end of the eighteenth century saw the beginning of a new cycle, that of gold and dismonds. Both ended towards the end of the ninsteenth century. There was a simultaneous development of cotton production and Brazil became the leading supplier of cotton in the European market from the middle of the eighteenth century to about 1800. The rubber cycle dated from 1860 to 1910, a period in which Brazil had a virtual monopoly as the supplier of rubber in the world market.

J.F. Normano, <u>Brazil & A Study of Economic Types</u>, (Chapel Hills University of North Caroline Press, 1939), p. 22.

Perhaps the most famous and important of the economic cycles is the cultivation of coffee which, for more than a century had been the keystone of the economic structure of Brazil. This was the last of the dominant export cycles. It came to an end with the depression in coffee prices in the post-World War First period. It was only in this 1930s that Brazil gave up her dependence on export commodities a means of economic growth and embarked on the path of import substitution industrialization.

The social basis of these sconomic systems determined the political structure in Brazil. Slavery characterised the production relations in pre-Republic Brazil. Two major social classes existed in the society of colonial Brazil, the landowners on the one hand and the mass of slaves and free labour on the other. There was a small bourgeoisis, comprising of immigrants from Portugal, who by the end of the colonial period dominated Brazil's commercial life, This section found it extremely difficult to gain acceptance among the landed sristocracy.

Thus the economic system in Brazil evolved around the plantations.

The economic cycles centred around various commodities resulted in spurts of development in various parts of the country and this shaped the disintegrated structure of the economy. There were islands of

¹ R.E. Carleon, "The Seeis of Brazil's Economy", in <u>Brazil's</u>

<u>Protrait of Half a Continent</u>, (ed.) T. Smith and A. Merchant,
The Dryden Press, New York, p. 228.

^{7.} Cardozo, The Transition 1808-1848 in L.F. Hill (ed.), Brazil, University of California Press, 1947, p. 26.

growth in the economy determined by the geographical position of the king product. Each of these islands prospered and fill into insignificance according to the growth and decline of the king product. The disintegrated economic structure led to a corresponding development of the political system. The plantation was the centre of each isolated region of the economy and the social base of the plantation determined the political dominance. The Emperor might rule in Rio de Janeiro, his government might have large claims and the politicians might loudly complain of his repression, but for the planters and the dependents on his estate, politica remained essentially a local issue, for most of the time untroubled by central intervention. Therefore while monarchy was the political institution of nineteenth century Brazil, the Empire was ruled by his landed aristogracy and it was the rural society which preserved the centralized monarchy.

The "coffee cycle" began in 1830. By the end of the century Brazil contributed 66.8 per cent² of world production of coffee and made upto 50 per cent of the nation's export. The smalth of Brazil was coffee and coffee was Sac Paulo. Slewery became the bone of contention between the coffee interests of Sac Paulo and the landed interests in other parts of Brazil. To the "Paulista" slavery was an outmoded secondario and social system. It could not cope up with the needs of

¹ Peter Faynn, Brazil & A Political Analysis, 1978, p. 8.

² ibida

³ A term used to refer to the coffee magnetes of Sao Paulo.

the growing coffee eactor. The termination of eleve trade in 1850 had led to a rapid increase in the prices of eleves and Sao Paulo coffee planters hit by the rising costs began to feel the shortage of manpower. To them alavery was a hindrance to growth. Even the centralized imperial system was unacceptable to many of the planters. Sao Paulo, therefore, led the way in encouraging immigrants. Prior to 1890 the number of immigrants in Brazil was about 19,000. Between 1847 and 1957 as a result of Sao Paulo's policies another 60,000 errived. But in spite of the growing domination of coffee interests in Brazil's sconomy the conservative landed eliganchy preserved its domination of the political system.

The final blow came with the abolition of slavery in 1888. The monarch's support to the abolition movement alienated the conservative section of the landed aristocracy. Simultaneously the Paulista raised a cry for greater regional autonomy. The collapse of the monarchy in 1889, a major victory for Sao Paulo coffee interests, was the logical conclusion of the mithdremal of support to the monarchy by the conservative lended griatocracy.

The years 1889 to 1930 saw a consolidation of the political dominance of the Sao Paulo coffee plenter. The formation of the Republic in 1889 provided for far greater regional autonomy and the whole system come to be geared to give the maximum benefit and control in an obtensibly democratic framework, to a small elite who ran the

country in their own and in their region's interest, which in their eyes coincided with the national interest.

The economic policies of this period were determined by the dominant political pressure group - the Sao Paulo coffee planters. The tremendous expansion in coffee growing at the end of the nineteenth century led to a crisis in coffee prices in 1893. The reaction of the coffee magnates came in the form of a demand for a depreciated exchange rate and the effects of the 1893 crisis was cushioned by the external depreciation of the currency - a because which want totally against the interests of the urban consumers and the wage sarners in the coffee sector who depended on imports even for articles of common uses.

In 1897, a new depression developed in the world market, but this time further depreciation of the exchange rate was not possible in view of the social and political unrest which had followed the depreciation of the currency in 1893. At the same time coffee stocks were piling up in the economy threatening a loss of income to the producers as well as to the economy as a whole. The idea of withdrawing from the market a part of these inventories econ developed in the minds of the ruling classes of the coffee producing states, whose political and financial power had considerably increased as a result of republican decentralization. The conclusion of the Taubate Agreement² in February, 1906 marked a political victory for the 'Paulista'

¹ P. Flynn. op.cit. p. 62.

The Taubate Agreement of 1906 provided for valorization of coffee for the first time in Brazil. It was one of the world's first price support plans under pressure from the planters, the major

and laid the foundation of 'valorization' in Brazil's coffee industry.

The crisis of the interwar period saw a consolidation of the valorization scheme and its emergence as a mechanism of "permanent defense" for the coffee sector.

The effects of the world wide depression were even more discetrous for Brazil because of its semi-colonial status and the resulting
subservience to the older and more mature economies. The economic
dependence of Brazil included such unfortunate characteristics as the
specialisation in the production of a few commodities (coffee and
sugar), a feudal system of society in which a few patriarchal families
owned and operated the large rural holdings (fezendae) and the major
urban businesses and in which the messes of people performed labour
under the condition of actual servitude and subservience to the capitaliet centres of the outside world in financial matters.

Under these circumstances, it was natural for pressure groups to demand relief. Most avenues of granting some sort of relief to the dominant pressure group of Seo Paulo coffee planters were no longer open. Government revenue which comprised mainly of export and import duties could not be increased by additional taxation in a situation when channels of trade with the outside world were closing down. At the same time other forms of taxation were not easy to impose

Contidence fen. 2

producing states signed an agreement at Taubate, Seo Paulo, to purchase coffee surpluses and a tax was imposed on each bag of coffee exported to finance the servicing of loans contracted by the states to purchase surpluses.

Calso Funtado, Economic Growth of Brazil, p. 195.

upon the powerful industrial groups especially since the penniless workers ideked political clout.

The planters' lobby of Sao Paulo embarked on their own programms to support coffee prices and maintain coffee incomes. The first valorization programms in the interwest period was put into operation under the leadership of Sao Paulo and without the support of the federal government. In view of the unwillingness of the latter, the State Government which under the Republic had constitutional power to levy taxes on exports, appealed directly to international credit sources. The federal Government was finally compalled to take the major responsibility and on account of the financial success of their plans, the planters succeeded in imposing their economic policy on the federal government uns dominated by Sao Paulo men.

Coffee policy of the period 1889 to 1930, therefore, was determined by the dominant pressure group and the economic policy of Brazil in this period was determined by the interests of the Sao Paulo coffee magnates.

The political situation changed radically in the 1930s. The revolution led by Getulio Vargas in 1930 challenged the political dominance of the "Paulista". The Republic of Brazil had its first president from a non-coffee growing region. The military failure of the Sao Paulo rebellion of 1932, which the planters had supported, etruck yet another

¹ Lafa Hill, "Camidilhieme versum Republicaniem", in Lafa Hill (ed.), opacita, p. 103.

blow to their political supremacy. The political change led by Vargas was a manifestation of the growing conflict between the traditional oligarchies and the classes of the budding urban centres such as the middle class, the civil and military bureautracy, the inefficient groups of industrial entreprensurs and the rising proleterist. The heated discussions aroused by the boosting policy were a clear indication of the transformation occurring at that time in the political and social structure of the country. Republican decentralization had given greater political and administrative flexibility in the field of economic policy to the agricultural interests at the regional level. The first price support scheme was put into operation without the support of the federal Covernment. At the same time the groups exerting pressure on the federal Government had become more numerous and complex. The increasingly important urban middle classes - within which civil and military groups were conspicuous - were directly affected by the exchange depreciation. The powerful international financial group centred eround the house of Rothschild closely observed the economic and financial policy of the BrazilianGovernment, particularly efter the consolidation losm of 1898. Finally, importors and industrialists, whose interests conflicted for a number of reasons with those of the coffee plenter, found in the republican regime an opportunity for increasing their political power. Z

¹ O. Ienni, <u>Crises in Grazil</u>, Columbia University Press, 1978, p. 10.

² C. Furtado, The Economic Growth of Barril, p. 195.

Coffee policy since the 1930s shows important differences with that of the period 1889-1930, when intervention in the coffee market was done unambiguously in the planters' interest. By contrast, in the post-1930 period when the interests of the Government end the export sector in coffee diverged, the Government made its wishes prevail. In 1931 the federal Government took charge of Brazilian coffee policy, which had previously been conducted by the state of Sec Paulo. The change in administrative lasus came together with an important shift in Brazilian politics. Whereas the coffee planters had exercised considerable influence in Sec Paulo, the federal administration under Vargas was opposed to the prevailing system of Brazilian politics in which the coffee elite played a leading role.

planters interests have been served by a stable market, but the government's interests have been served by a stable market, but the government's intervention reflects its own efforts to sot as a monopolist in the international coffee market restricting supply in order to increase the economy's foreign exchange earnings. In a certain measure these two goals — stabilizing planters' income and maximising the country's export requipts from coffee have coincided. In some respects however the interests of the planters and the government have diverged significantly."

The planters had traditionally mented an undervalued exchange rate to raise their cruzeiro earnings for a given world market price.

Thus one of the major provisions of the 1906 valorization programms

¹ N.H. Laff, <u>Economic Policy Makino and Development in Brazil.</u> 1947, 1964, 1968, p. 23.

was intervention in the foreign exchange market to lower the external value of the currency. This involved a depreciation of approximately 30 per cent in the midst of radidly growing exports - a move that was considered to be open exploitation of the consumers. Coffee policy in the post-1929 period on the other hand, had an overvalued exchange rate in order to raise international coffee prices and meximize foreign exchange receipts. When international coffee prices had declined by 60 per cent, the exchange rate depreciated by 40 per cent only. The depreciation of the currency, although cushioning the impact of fall in prices to some extent, induced the coffee planters to increase production and maintain pressure on the market. The eitustion led to a new price decline and renewed depreciation of the currency, contributing to further intensification of the ories. As the degree of depreciation of the ourrency was much smaller than the fall in prices - in as much as the former was influenced by other factors - a point would clearly be reached where the loss to the growers would be large enough to induce them to shandon their plantations.

Furthermore, the government used its control of the foreign exchange market to transfer to the planters only a part of what was received from coffee exports. Under the so-called "exchange confiscation", the coffee exporters had to convert their dollar earnings at an exchange rate considerably lower than the exchange rates paid by

¹ C. Furtado, Economic Growth of Brazil.

the importers. The receipts from the export tax were used to repay the loans raised for financing of coffee stocks. Thus the degree of subsidiention of the coffee sector had declined considerably in the 1930s compared to the previous decade.

Given the change in the political scenario two questions arise first, why did Varges government continue the coffee destruction
programme? Second, what were the reasons behind the political decline
of the coffee plenters?

Let me take up the second leave first. The growing conflict of economic interests has already been mentioned. On the one hand, there was a conflict between the various economic interests, which primarily took the form of a conflict between rural and urban sectors. On the other hand, the political struggles were related to the conflict between various projects of modernisation, democratisation and economic development. At the base of these conflicts rested the contradiction between an economic system based on exports and a developing industrial economy. The planters were dealt with an enormous economic and psychological bloss by the 1929 coffee ories, and found it difficult to gain an upperhand in their conflicts. Moreover the economic ories coincided with the political crisis, viz. the revolutionary change in the Government followed the onest of the Great Depression.

The excelorated industrialization and urbanization increased the number of voters beyond the control of the older sural political machines and added new potential centres of power. 2

¹ O. Janni, <u>medite</u> p. 10.

² N.H. Leff, moscite, p. 28.

Another important factor which led to the decline of the political dominance of the planters was that industrialization in Brazil saw the concentration of coffee planting and manufacturing in the same region, in the state of Sap Paulo.

The percentage of coffee trans in the state of Sac Paulo in 1939 was 51.27 while the percentage of the value of industrial production in 1942 in the state of Sac Paulo was 39.8.

Table 4.1

State	Value of Industria	1 Production	(% distribution)
36640	1907	1920	1939
Sao Paulo	16.5	31.5	47.2

Source : D.T. Veiere, Industrialization in Brazil.

1940s, the state of Sac Paulo with its enormous weight in Brazilian politics shifted "from the bastion of coffes to the support of industrial interests", in the national areas. Thus the heart of the problem as so often in modern Brazil's politics lay in Sac Paulo. It was the "growing disagreement between those elements in Sac Paulo who demanded continuing government support for this coffee-based export sconomy and those who vigorously urged the need to push Brazil further and faster towards industrialization, a road which would require firm government intervention in the economy.

Given the situation, why was the coffee eactor in Grazil able to enjoy the benefite of the valorization programms even in the 1930s?

Considering that Vargas government had come in opposition to the Sec

¹ NeMe Leff, <u>poecite</u>, p. 29.

P. Flynn, <u>opecita</u>, p. 95.

Poulo planters' lobby, it is surprising that the 1930s see the destruction of millions of bags of coffee in an effort to continue the programme of stabilization in prices.

In chapter three I have traced out the economic feature which led to the continuation of the coffee destruction programme in the 1930s. What I would like to emphasize here is that the 'valorization' programme had started on the basis of strong political pressure from the 'Paulista'. No doubt the concept of export—led growth dominated economic policy in Brazil, but it was the planters' lobby which was able to take advantage of the situation and manusure policy decisions in its own interest. As Colso furtado has pointed out the distinction between the 'Paulista' lobby and the sugar planters was that it was in the former only that the producing and commercial interests had been combined and this gave the coffee magnates adequate leverage to protect its own interests.

During the 1889-1930 period the first such manusuvre came in the form of a depreciating exchange rate which helped to maintain income in terms of the Brazilian currency. Then came the 'Taubate' agreement of 1906 and the first valorization of coffee because of the strong pressure from the planters' lobby since depreciation was no longer a viable policy measure. The 1920s saw the beginning of the "Permanent defense" of coffee prices so well as a depreciating exchange rate. There is no doubt that these policy decisions were manifestations of the dominance of the Sep Paulo planters' lobby.

¹ C. Furtado, <u>co.cit.</u>, p. 125.

However the situation had altered to a large extent by 1930.

Coffee planters had lost some of their political power and were no longer in a position to dictate the course of development. Vargas came to power by challenging the very domination of Sao Paulo coffee interests. "1930 revolution judged as a class phenomenon was predominantly a bourgeois movement which would in time turn increasingly to defend the interests of the growing urban and industrializing middle class, but despite its early promises, it had still to defend this primary source of the nation's wealth, the coffee economy centred in Sao Paulo. This was made all the more necessary and urgent by the swelling economic crisis internationally and the collapse of coffee prices, so that Vargas in his early years had little chance to introduce substantial changes in the social and economic structure of the country".

The defense of the coffee economy by Vargas' Government arose out of the economic situation in Brazil at the beginning of the depression. Political factors no longer played a determining role. The industrial structure, inspite of growth home when apmen between 1914 and 1917 had virtually stagnated during the 1920s since foreign goods from countries in the process of reconstruction were much cheaper than those produced domestically. Heavy industry was conspicuous by its absence. Even the path of import-substitution development would be constrained if foreign exchange was not available for the development of key industries.

¹ Peter Flynn, <u>openite</u>, p. 61.

Foreign debt payment constituted a heavy burden. The depreciation of the currency which gave de fecto protection to industry and to the coffee economy was basically designed to maintain the value of exports at a fairly highlevel. Import substitution was not one of the melor aims of Vergas' Government, but "intensification of programms by diversification of agriculture, a general plan for development of railways and highways for the whole country and a policy of international cooperation", were the basic economic programmes promised to the people in his first address. Thus maintenance of the export earnings was the primary concern of the Government which was this as the solution to all economic problems. In other words Brazil was forced to depend on the export sector as the instrument for development. If this is accepted as the basic premise, then given the economic situation of Brazil at the end of the 1920s, valorization of coffee, a product which accounted for 71 per cent of the export earnings in 1929. was a logical corollary. Political pressure, which had played the determining role in the edoption of valorization as the stabilization programme in Brazil's coffee industry, had in the 1930s yielded its place to certain economic factors which came to determine policy decisions. It was the immense faith in the concept of export-led growth which continued to dominate the minds of the policy makers.

¹ D.T. Veiera, "The Industrialization in Barzil", in T.L. Smith and A. Marchant (ed.), <u>Brazil : Potrait of Half a Continent</u>, The Dryden Press, New York, 1951, p. 47.

To understand the importance of non-sconomic factors in the formulation of the stabilisation schemes in the Indian tea industry, it is necessary to look into the ownership structure of the industry. The following table shows the distribution of screage under tea among the various types of ownership.

Table 4.3

Persontece Distribution of Acresca under Tea amono
the different types of ownership in 1939

-	Types of ownership	Proportion of screage under tea \$			
1.	Sterling Cos. controlled by Agents/ Secretaries	62.93			
2.	Rupse Cos. controlled by Manufacturing Agents:)			
	a) Non-Indian	5.97			
	b) Partly Indian and partly non-India	m 10.03			
	c) Indian	0,09			
3,	Rupes Cos. controlled by Managing Agents:				
	a) Indian	9.33			
	b) Partly Indian and partly non-India	in 1.39			
4.	Controlled by Board of Directors:				
	a) Rupes Public Ltd. (Indian)	8.09			
	b) Rupse Pyt. Ltd. (Indian)	1,38			
	c) Rupes Put. Ltd. (non-Indian)	0.03			
5.	Proprietory and Partnership concerns:				
	a) Indian	2,96			
	b) Non-Indian (Rupse)	0.48			
	c) Non-Indian (Sterling)	0.50			

Source : Plantation Enquiry Commission Report, 1996.

Secondly thirteen leading agency houses in Calcutta controlled over 75 per cent of the tes production in India.

The Sterling interests dominated about 65 per cent of the acreage under tea. Secondly a major part of Rupes companies were controlled by managing agents, which were the Indian counterpart of the interests controlling the sterling companies. Therefore, as I have pointed out before, the place of registration of a company made no difference to the dominant interest group in the tea industry. It comprised of certain managing agency houses and the parent organisations in Britain.

The Indian Tea Association was formed at a meeting of Colcutta
Agency firms in 1881. The object and duty of the Indian Tea Association was to promote the common interrests of all persons concerned in
the cultivation of tea in India. However, the Indian owned tea
concerns came to have an association of their own known as the Indian
Tea Planters' Association, with headquarters at Jalpaiguri, a district
in which there were many Indian owned estates. The South Indian tea
plantations had their own essociation, the United Tea Planter's
Association.

All the three control schemes in the Indian tes industry during the interwar period were initiated by the Indian Tes Association. In 1920 it was the Indian Tes Association which asked its members to stop plucking. The second attempt at stabilization in 1930, was also underwtaken under the direction of the Indian Tes Association. Both were

¹ Plantation Enquiry Commission Report, 1956, p. 23.

voluntary, both ineffective, and soon broke down in the sense that
the prices started declining as soon as the effect of the control
scheme was felt on prices and incomes and production responded once
again to price signals. Secondly these two schemes had failed to touch
upon those sections of the industry which were outside the purview of
the Indian Tea Association.

The nature of the International Tea Agreement of 1933 was quite different. It encompassed the entire tea industry through a legislative measure. The cey in which the Indian Tea Association was able to subjugate the functioning of the Indian Tea industry to its own interests brings out very clearly its importance as a political pressure group.

able to maintain their incomes. Given the market conditions the only way to raise prices in the London market was to curtail the enount of the exported either by sestricting production as did the first two schemes or by providing for export quotes. The experience of the first two schemes had shown that once the prices were remunerative all sections of the tes industry would benefit from it and would react by increasing production through coarser plucking in the short run and extend the acreage under tes. The latter represented a further pressure on prices in the long run. Therefore restriction of production under the directive of the Indian Tes Association would ultimately go against the interests of the dominant section of the tes industry. In a period when Indian capital was entering the industrial sector in India and had

made some headway in the tea producing erass of Bengal, voluntary restriction achieves, initiated by the Indian Tea Association, constituted a threat to the domination of foreign capital in the industry since measures taken by the Indian Tea Association failed to include the Indian owned estates, but at the same time benefited the Indian owned estates by initiating a recovery in prices.

If one considers the two main conditions of the international Tea Agreement (a) allocation of export quotas with reference to past export performance and (b) savers restriction on extension of acreage, its impact on the industry is quite obvious. Firstly, it prevented the entry of new capital and secondly, it discriminated against relatively newer plantations which had not attained the pask of production and therefore export. Thirdly, since the Agreement laid down conditions to regulate production through restriction of acreage under tea, the existing plantations could always increase production through increase in productivity.

Given the elowing down of sterling investment in the 1920s, the International Tea Agreement was unduly biased against Super investment and particularly detrimental to the interests of Indian investors who were trying to enter the industry. The following table shows the changes in the structure of capital invested in the tea industry over the period 1900 to 1938.

¹ MaR.P.C. Report on the Supply of Tems p. 23.

Table 4.4 Capital Invested in the Tes Industry (1900-1938)

Year	Total (*000 Re)	Registered in U.K. (1000 B.)	Registered in India (*000 &.)	
1900	160,000	130,075	20,169	
1919	340,000	271,086	68,914	
1920	950,000	273,873	74,127	
1928	480,000	360,000	120,000	
1930	930,000	397,851	132,141	
193 8	498,790	365,960	132,830	

Source : S.K. Basu, Capital and Labour in the Indian Tea Industry.

Rupos capital which had increased by 61.9 per cent between 1920 and 1928 shows stagnation in the 1930s.

Thus the International Tea Agreement resulted in a conflict of interests between foreign capital and domestic capital. To what extent the Agreement was a result of the antagonism of foreign capital towards domestic capital in a period when there was a crisis in the tea market and a deliberate policy to kill any competition from the Indian capitalist class can be made clear if one looks into the procedure in which the Agreement was made effective in the Indian context.

Rothermund, in a paper "British Foreign Trade Policy in India during the Great Depression, 1929-39" has arrived at the following conclusions based on his analysis of the correspondence between the Indian Tea Association and various government officials on this issue.

¹ The paper was presented at a Seminar in New Dalhi.

Rothermund argues that initially the government of India officials were extremely acceptical about the possibility for an excement being reached among many conflicting interests. Therefore they went along with the plans which seemed objectionable from the viewpoint of liberal doctrine, preciply, because these plans were expected to fail. However the tea lobby was soon able to confront the government with a successful referendum among tes producers and it submitted a complete scheme with specimen forms atc. The government was also informed that the other governments congerned were already about to implement the respective measures: Rothersund writes - "The Commerce Secretary to the Government of India, T.A. Stewart, who was otherwise a most articulate defender of the faith in free trade. had obviously been braincashed by the tea lobby and advocated the measures, consoling his colleagues with the remark that it was anyhow too late to object to it." No time was given to even droft a bill for this purpose so a notification under the Sea Custome Act was issued in order to stop the export of unlicensed two, while the licensing was left to the Tea Association which then assumed quasi-governmental authority. This cause as a surprise to many since the Sea Custome Act was not meant to cover measures of this kind that were not backed by apacific legislation. Rothermund points out - "But in this case everything was done in order to accomplete the mighty Smitish pressure group which demanded this measure. Most of the officers in the various departments of the government of India which were concerned with this measure falt very uncomfortable about it. They knew that their critics would immediately

point out that such measures were only adopted when non-indian interests were at stake and they thought of the lame excuse of saving the few Indian estates which had recently came up and which would have been the first to go bankrupt if such measures were not adopted."

The nature of this protection given by the Tes Control Act was quite obvious when it lost its character as a temporary support scheme.

After being passed in 1933 for five years it was extended in 1938 for enother five years.

Thus the Tea Control Act of 1933 was passed under strong pressure from the foreign interests in the industry. It was a measure which had been initiated by the plenters lobby. Even the elaborate plans of how to implement the International Tea Agreement had been drawn up by this section. The Government merely acted in response to the demands placed by the tea lobby.

According to Rothermund - "The swiftest action was taken in the case of tes and in fact, the government was quite surprised by the way of in which its hands were forced by the powerful tes lobby which operated very effectively both in India and in London and at the international level as well. Indian interests could have never dreamed of getting something done by the Government of India at this amazing speed. Principles were quickly abandoned in this case."

The more serious aspect of the control scheme for Indian capital was the restriction on planting of tem bushes. Indian capital was not

Rothermund, po.cit.

only prevented from competing in the foreign market, but was prevented by the Act from taking advantage of the growing domestic market. An attempt was made in 1933 by the Indian Tea Association to get a referendum in support of a scheme designed to limit production for sale in India to 12 per cent of each estates best crop basis. It won the support of 93 per cent of the industry. There was atrong opposition from the South Indian United Planters' Association since the pardens owned by Rupes interests in South India were comparatively young and had not reached the optimum level of either production or acreage under team The Indian Tea Association asked for legislative effect on this scheme, but it was turned down, partly due to the strong opposition from the United Tea Planters Association, What emerges as an interesting point in this context is that the dominent tea interests which in the 1920s had not been willing to cell in the domestic market as "it was not profitable," now tried to set prices in the Indian market at an artificially high level by limiting production. The following table shows the differences in prices between the London market and the domestic market.

¹ P. Griffiths, opecite, p. 198.

Table 4.5

Year	Average price in London market Re A _s P _e	Average price in Indian market Rs. A. P.	
1933	9 -7	4 - 10	
1934	8 - 9	5 - 2	
1935	9 - 5	4 - 10	
1936	10 - 1	4 - 8	
1937	11 - 4	4 = 9	
1938	9 - 7	4 - 0	

Source : Investor's India Yearbooks.

Lastly, even the changes which were made in export quotes in particular years in response to the price movements in London, affected only the existing plantations and helped to maintain the existing balance in the distribution of tea output among the various types of owners. The only way Indian capital could enter the industry was by buying out plantations owned by British interests. This kind of transfers were likely to take place only in the case of estates which were loss profitable.

III

A study of the operation of political pressure groups in the two industries will not be complete unless a reference is made to exchange policy. I shall now examine the extent to which exchange policy was influenced by the planters, lobby.

The exchange variations in Brazil during the coffee cycle exhibit a strong correlation with the price variations in coffee. A study by J.P. Wileman of the latter half of the nineteenth century speaks of the role of the price of coffee as a determinant of the exchange rate. Wileman observed that between 1861-1864 and 1865-1869, the average price of coffee declined and so did the exchange rate; in the 1870-1875 period the average price of coffee increased, generating a recovery in the exchange rate; in the 1876-1885 period the exchange rate dropped again as prices fail; and finally in 1886-1889 the exchange rate recovered following a recovery in coffee prices.

In fact the exchange rate in Grazil became the most important instrument of counterasting the effect of falling prices on coffee incomes. With a reduction in prices of exported products - coffee, in this instance came a trend towards a sharp decline in the external buying power of the local currency. The decline occured ever before the dissquilibrium had materialized. A more forecast of an impending dissquilibrium was enough to start a race againstthe external value of the currency. Thus depreciation of the Brazilian currency become the tool for maintaining coffee incomes in terms of the domestic currency as prices of the international market declined. 2

The process of depreciation resulted in a transfer of income from the great mass of consumers. Since 50 per cent of the imports at the end of the nineteenth century and the early twentieth century

¹ J.P. Wileman, <u>Brazilian Exchance</u>, Buenos Aires, 1896, pp. 234-49.

consisted by foodstuffs and textiles, the burden of the crisis was passed on largely to the consumer.

The coffee planters during the greater port of the interest period were able to determine the exchange policy to their own advantage, as I have mentioned already. However after 1930, the situation had changed. Although depreciation of the Brazilian currency in the 1930s had brought some sort of relief to the coffee sector, the depreciation lagged behind the fall in international prices.

In the case of the Indian tea industry on the other hand, the movements in the external value of the rupes remained outside the control of the planters' lobby. The 1920s saw an appreciation in the external value of the rupes. This was the period characterised by the debate over the stabilization of the exchange rate at % 6d. The Currency Act of 1927 provided for this. All economic indicators including trade reflected an over valued exchange rate. The value of exports showed a decline-whereas imports recorded their pack level of the 263.40 erores in 1928-29, experts fall from them peak record of the 400.24 crores in 1928-29 to the 311.05 crores in 1926-27 and recorded only a slight increase in the succeeding two years.

The tea interests in India were similarly affected by so over valued exchange rate, but were in no position to have any impact on the Governments' exchange policy.

Thus there was a fundamental difference in the role of the pressure groups in the two industries. While in the coffee industry the 'Paulista' was in position to influence the general economic policies

¹ R.S. Kepurie, The Indian Rupes, 1967, p. 9-10.

of the Government and operate it to serve their own interests, the Indian tea lobby failed to determine the broder economic policy measures which affected the entire economy.

IV

The enalysis of the preceding sections demands that a comparison be made regarding the role of political factors in the context
of the two industries. On one hand there is the mono-crop economy of
Brazil dominated by large landowners and on the other there is the
colonial economy of India dominated by foreign capital. In the case
of the Indian tes industry as well as in the case of the Brazilian
coffee industry the dominant interests were able to determine economic
policies to a large extent.

Nowever there is a qualitative difference and this arises out of the pattern of economic development of the two countries. While Brazil, even in the early 1930s, was predominantely a monowcrop economy centred around coffee, tea was merely one of the major industries in India's export sector which by the beginning of theinterwar period had to coexist with the development of modern industries catering to the domestic market. The pressure groups operating within the tea industry assumed importance only with respect to the economic variables in that particular sector. The tea interests were able to maintain tea prices and incomes through stabilization schemes and to keep out competition from domestic capital in their own sphere. However they were unable

to mould the overall economic policy of the government in their own interest.

The situation in Brazil provides a starting contrast. The coffee interests, through the stabilization programmes, were able not only to affect the economic variables like prices and incomes in the coffee sector, but were able to shape the course of Brazil's economic development.

In the pre-1930 pariod the stabilization of coffee prices was directly the result of the dominance of coffee interests as a political pressure group. However the importance of the decision making role of the 'Paulista' in the economic development of Brazil cannot be marely confined to this pre-revolution period. Through the stabilization of coffee prices the planters were able to maintain the pivotal role of moffee in Brazil's economy. Therefore, in the 1930s when the political belience had shifted against the coffee planters, the industry continued to have an important role as the chief economic sector and this in turn was able to influence the economic policy of Brazil in favour of the coffee industry.

CHAPTER U

A Comparative Study of the Stabilization Schemes

A comparison of the success and failure of the control achemes in the plantation industry in Brazil and in India will either establish my hypotheses or reject them. This chapter will therefore be devoted to a comparative analysis.

The first section of this chapter will relate to the effect of these echemes on prices of tea and coffee and will investigate the causes which led to the differences. This will reflect on the first two hypotheses put forward in chapter one.

The second section will deal with the question of the necessity of control schemes in plantation economies and therefore construct a proof for my third hypothesis.

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Table T.A. makes a comparison of the price cycles in tea and coffee in the interwar years. Diegram 5.1 shows this graphically. There is a broad similarity in the price movements. However, the fluctuations in coffee prices are much more violent than the fluctuations in tea prices. The coefficient of variation for prices is 0.28 while for coffee prices it is 0.40.

The coefficients of variation have been worked out on the basis of data given in chapter I in table 1.4 for prices between 1919 and 1939.

Four observations should be noted in this connection. First, both tea and coffee prices reached rockbottom in 1920.

Second, after 1921 both tem and coffee prices started increasing and in spite of the fluctuations, there was a book upto 1928.

Third, the late 1920s and the early 1920s are a sudden and sharp decline in tax and coffee prices.

Fourth, after 1933, while tea prices show a definite recovery; the decline in coffee prices continues. In 1939, a year in which tea prices were approaching the level of the 1920s, coffee prices collapsed.

Lot me take up the observations one by one and look for causal explanations.

The slump in 1920 can be attributed to the collapse of the boom during and immediately after the war. During the war the contract with the British Government to export a certain proportion of the output to Britain had provided a guaranteed market for Indian tem producers and this encouraged coarse plucking and extension of ecreage under tem.

After the war the British Government decontrolled tem and released 65.9 million kg. to 76.8 million kg. of stocks early in 1919. By December that your stocks had further increased to 92.3 million kgs.

This led to a tremendous pressure on prices.

In Grazil on the other hand, the loss of Central American markets and the restriction on imports by allied powers during the war had resulted in a problem of excess supply and the government undertook a programms of valorization in 1917. However, the years 1918 and 1919 saw a sharp fall in production, and output was lowest since the turn of

the century. Therefore, when with the end of the war demand shot up, supply failed to cope up with it and the valorized coffee was sold at enormous profits in 1919. By 1920 the situation had changed again. There was a large output and this together with the release of stocks held during valorization led to a slump in prices.

The recovery of tea prices began with the control scheme of 1920. Individual reduction of output must have worked quite well since allIndia production declined from 345,000,000 lbs in 1920 to 274,000,000
lbs in 1921. One important feature was the improvement in the quality of tea through finer plucking. The control scheme affected the supply of common tea which formed the bulk of the excess supply and constituted the dominant pressure on prices. Regulation of plucking continued to remain a part of the Indian tea industry for the greater part of the 1920s. This eccounted for the boom in tea prices in this period.

The 1922 crop was actually higher than that of 1921. But it was much less than the average annual production of 1915-20 and careful plucking maintained quality. The chairman of the Indian Tea Association warned the industry against any return to coarser plucking, but advised increased production in order to prevent prices from rising too high and thereby reducing consumption. In 1925, though production increased tramandously, partly as a result of coarser plucking under the stimulus of high prices, there was a sudden spurt of demand from the U.S.A. and some other countries and price increased further. In 1924, both produc-

¹ P. Griffths. The History of the Indian Tea Industry, p. 179.

² lbid.

tion and prices were maintained. At the beginning of 1925, stocks in the U.K. were in excess and prices began to fall. According to a report of the Food Council. the downward movement was aggravated by the refusel of large quantities of common grade tea produced by coarser plucking as a result of a temptation to increase consignments when prices were high. In February 1925, the producers decided to restrict offerings on the London auctions. In September the Indian Tea Association sought to introduce regulation of production. These together with adverse climatic conditions helped to support prices. In 1926, though initially there was no plan to restrict production, in the middle of the year it appeared that the crop would be very heavy and the Indian Tea Association recommended that plucking should be discontinued from 20th November: However, the restriction was not very successful and final outturn was an all time record of 393,000,000 lbs. Prices declined. By 1928 stocks in the U.K. were high and less top was exported to Britain. Out-markets took more than their usual quantities.

Thus the price boom of the 1920s was a result of the control achieve introduced in November 1920, which remained an instrument of control throughout this period.

In Brazil coffee prices remained extremely high upto 1928. The recovery of prices started with the velorization of coffee in 1920-21. The Federal Government bought up 4.5 million bage of coffee. This was successfully marketed in 1924 when prices were very high. The success of 1920-21 valorization can be explained by the relatively smaller crops

^{1 &}lt;u>Ibide</u>, p. 160.

in 1921-22 and 1922-23. One distinct aspect of the valorization of 1920-21 was that unlike the first two valorizations, the third grew out of the post-war depression and deflation of prices rather than the difficulties arising from bumper, crops and excessive productive capacity. In 1920-21, Brazil's production had returned to normal and at the same time the post-war price boom collapsed.

In 1925, the government adopted valorization of coffee as a policy measure so that it could become a permanent aspect of the industry. The newly established Sac Paulo Coffee Institute apent its first two years in perfecting the mochanism of control. The first real test of the scheme came with the bumper crop of 1927-28. Other states followed Sac Paulo in valorizing coffee. Thus the support to coffee prices came from the control scheme. Between 1921 and 1927, as in the case of the Indian Tea industry, Brazil was successful in maintaining a boom in coffee prices through the stabilization programms.

As the recession in world economy started certain developments within the plantation industries coincided with the world wide depression and prices declined drastically. The most important indegenous factor for both the Indian tes industry and the Brazilian coffee industry was the stimulus provided by the price boom to extension of area under production. None of the control schemes provided for restriction on planting. In India acreage under tes expanded at the rate of 2 per cent per year. In Brazil for a 18 per cent rise in

¹ V.D. Wickizer, The World Coffee Economy, Food Research Institute, Stanford, p. 142.

² P. Griffiths, pocita, p. 181.

prices between 1924 and 1926 production increased by 35 per cent between 1925-26 and 1929-30, the highest increase in response to price change since the 1880s. The following table shows the response of production to prices between 1886 and 1930.

Table 5.1

Relative Amplitude of Increase in Coffee Prices
and Grazilian Production

Initial rise in price (A)		Subsequent rise in production (8)	Ratio	Retio (8/A)	
	Period	% increase	Period	% increase	
1886	to 1893-99	42	1896 to 1980-01	40	0.96
1910	to 1911-12	30	1913 to 1915	19	0.63
1918	to 1919-20	23	1918-19 to 1920	-21 19	0.83
1924	to 1925-26	19	1925-26 to 1929	-50 35	1.94

Source : F.A.O., Commodity Bulletin Series (1961).

Given the leg between planting and production the effect of the price boom on supply came to be felt towards the end of the decade. This constituted, together with the stocks held in interior Brazil as a part of valorization, a strong pressure on prices.

At the same time there were certain external factors which were of immediate importance. In Brazil the artificial boom in prices had attracted massive foreign loans. Advances were made against the security of the current value of coffee stocks rather than on the growers' actual needs. Foreign loans served as the basis for expansion of money supply.

furtado, The Economic Growth of Brazil, 1963, p. 201.

The planters, faced with an increased money income and lowering of costs of production in a situation of bumper harvest, created an inflationary situation. This given Brazil's economic structure, found an outlet in an increased demand for imports.

The favourable exchange aituation had led the government to embark on a policy of convertibility. As soon as the crash occurred in the stock market in the U.S.A. in October 1929, convertibility was used by foreign capital trying to flee Brazil. The prospect of securing new money to finance the stocks and subsdize the planters was extremely poor. Thus the crisis in the coffee economy can be traced to three factors - first. the bumper harvests of 1927-28 and 1929-30. which created an excess supply of 25 million bans. Second, the depression in the international stock market and the disappearance of metallic reserves from Brazil and third the onset of the Great Depression. It is extremely doubtful that only recession in incomes with the enset of the Great Degression determined the decline in prices. It was no doubt one of factors which contributed to the downward trend. However the decline in prices was started by supply factors and the crisis from the demand side was superimposed on this trend. During the depression the prices paid by the consumer declined by 40 per cent without any marked change in consumption. At the same time, prices paid by the American consumer declined much less than the prices paid to the Brazilian producers. It was the middle man who gained out of the weakness in the suppliers' position. While prices paid to the

¹ V.D. Wickizer, co.cit., p. 182.

producers declined from about 22 cents/lb in 1929 to 8 cents/lb in 1931, the average price paid by the U.S. consumer declined from 47.9 cents/lb in 1929 to 32.8 cents/lb in 1931. Celeo furtado has pointed out that this argument that the price effect would have annulled the income effect — that is, the increase in consumption caused by the decline in price balanced the drop in consumption brought about by the contraction in income — is following. In the 1934-1937 period of increase in income, prices paid by the consumer maintained their downward trend, with a figure of 24.4 cents/lb being recorded in 1937 as compared with 25.5 cents/lb in 1933. There were thus two positive effects from this point of view of increased consumption — a rise in real income per capita and a fall in prices. However, consumption remained almost unaltered, being 13.1 lbs. per capits per year in 1937 as compared with 15.9 in 1931 and 12.5 in 1933.

Coffee prices, being fundamentally dependent on the pattern of supply, continued thus through the thirties without showing any results of the recuperation which started in 1934 in the industrialized countries. After dropping to their lowest point in 1933, international coffee prices remained unaltered until 1937, after which they declined etill further in the last years of the decade. According to furtado this great stability of coffee prices, which remained at such a depressed level throughout the 'thirties, is highly significant. The economic

¹ ECLA, Capacity of the U.S. to absorb Latin American Products, 1951.

² Furtado, op.cit., p. 203.

recuperation between 1933 and 1937 brought about a general increase in the prices of primary products. The price of sugar for instance rose 140 per cent between 1933 and 1937 and that of copper rose a little more than 100 per cent in the same period; yet coffee prices in 1937 were the same as in 1934 and lower than in 1932.

Therefore one can conclude that the crisis in coffee prices after 1929 was primarily a result of excess supply generated through the valorization programms. The flight of foreign funds which aggravated the crisis was also a consequence of the valorization of coffee. In other words, attempts at stabilization intensified the crisis in terms of prices and incomes.

The slump in twa prices which began in 1929 was a result of increased production through extension of acreage and coarser plucking. The all-India crop in 1924 was 29,000,000 lbs greater than the crop in 1928. The stabilization programms undertaken in 1930 was isunched with the cooperation of 75 per cent of North Indian producers and with similar support from South India, Caylon and Indonesia. However, Indonesia failed to fulfil her commitments to the agreement and the reduction of 41,000,000 lbs. in North Indian crop, did not reduce stocks to a proper level. Production in 1931 was unrestricted. Exports from Indonesia increased and the potential threat of a further increase had a serious impact. Indian production in 1932 was about 40,000,000 lbs in excess of that in 1931 and reached a level equal to the record

furtado concita, p. 208.

² Griffiths, P., op.cit., p. 188.

est in 1929. In the face of a worldwide depression it seemed extremely unlikely that consumption could increase to absorb the excess production. Prices slumped almost to the level of 1920.

The upward movement in tea prices began with the International

Tea Agreement. Even in these circumstences it had been impossible to
obtain support for regulation of production as distinct from export.

That contributed to the success of the Tea Agreement in raising prices
as in the London market was the development of the home market which
provided a pillar of support to the Indian tea industry. The stabilization scheme operated mainly through regulation of exports. The excess
of production over exports could be channellized into the domestic
market which was growing extremely rapidly. The supply of common tea,
which was the dominant influence on prices, had a large outlet at home.
Therefore through the development of the domestic market a balance
could be maintained between demand and supply in the international market.
The Indian tea industry had found a solution at last.

The most obvious question that somes up is what led to the differences in price movements? In other words, what were the causes of the differences in the impact of stabilization on the two industries?

To compare the responses of the prices to the control scheme one will have to look into the prices determining power of the producing countries under consideration. The following tables show the share of the Indian tea industry and the Brazilian coffee industry in the respective export markets.

Teble 5.2

Tea & Percentage share in total exports of the producing countries

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Year	India	Ceylon	Indonesia
1927	40.79	25.03	15.90
1928	39.02	20.67	16.70
1929	39.66	25.99	16.90
1930	40.14	26.12	17.72
1931	38.24	26.97	19.19
1932	39.66	27.10	18.60
1933	43,63	25,47	18.69
1934	38.69	25.35	18.40
1935	39.96	25.23	17.20
1936	38,97	25.82	18.12
1937	35. 58	24.22	18.89
1938	36.15	25.55	17.19

Source : V.D. Wickizer, Tes Under International Repulsetion, Food Research Institute, Stanford, 1944.

Percentage Share of Brazil in Total Exports and Total

Production of Coffee

Year	% share in Exports	% share in Production
1920	63,71	64.70
1921	62.05	62.31
1922	62,06	55.73
1923	65.64	61.57
1924	62.71	60.09
1925	63.11	58.27
1926	60.71	59.84
1927	62.82	68.78
1928	57.86	52.10
1929	59.84	69.11
1930	99,34	96.46
1931	63.90	69.52
1932	52.79	58.23
1933	58.73	68.99
1934	56.11	57 .77
1935	96.74	57,26
1936	51.35	61.97
1937	48.01	60.88
1938	57.03	61.10

Source: V.D. Wickizer, <u>Morld Coffee Economy</u>, Food Research Institute, Stanford, 1949.

Table 5.4
Percentees of World Coffee Production by Area

Year	Brazil	Columbia	Other L.A. Countries	Africa
1921-25	61.73	8.37	20.50	2.22
1926~30	64496	8.77	17,24	2.66
1931-35	62.71	10.25	10.77	6.33
1936-39	58,93	11.25	10,77	6.33

Source : FAD, Commodity Bullentin Series, 1961.

Table 5.9
Percentage of World Coffee Exports by Area

Year	Brazil	Columbia	Other L.A. Countries	Africa
1922-26	63.06	9.58	18.77	2.06
1927-31	60.84	11.21	17,71	3.38
1932-36	55.03	13.42	18.00	6.70
1937-40	53.52	19.45	17.12	8.89

Source : FAO, Commodity Bulletin Series, 1961.

India, though the largest producer and exporter of tea was not the monopolist in the world market. Caylon and Indonesia along with the Indian industry mot more than 80 per cent of the world demand. Given such a structure in the export market, India was not in a position to determine prices by herself. Nor was she the marginal determinant of

prices. It was the supply of common tea which set world prices end no particular country alone was responsible for the production of common toa. Therefore, the crisis in prices affected all black tea producing countries in a similar way.

Brazil on the other hand was the monopoly producer and exporter of coffee and secondly, the demand for Brazilian coffee was residual in nature. The advantage Brazil enjoyed over other "mild" producing countries was the price differential. Brazilian coffee could be bought much cheaper. The maintenance of coffee prices at an artificially higher level reduced the advantage Brazilian coffee enjoyed over the "milds." Therefore the interwar years saw large scale substitution of Brazilian coffee with "milds" as can be seen from table 5.3.

Given such a mituation the crisis in tea prices brought the three major tea producing countries together in formulating a comprehensive plan for the maintenance of prices and export earnings. This culminated in the International Tea Agreement of 1933.

The other side of the picture was quite different. Brazil's problems were not shared by her competitors and Brazil's solution to the crisis in the coffee sector had to emerge in isolation from the rest of the world coffee economy as I have pointed out in chapter three. In fact the latter found situations to their advantage and expanded their markets at Brazil's expense. Celso Furtado writes:

Nothing could prevent the policy of defense of prices from encouraging coffee growing in other countries with lend and manpower evailable under conditions similar to those in Brazil but less adventageous. For Brazilian producers to retain their status as holders

of semi-monopoly, it was essential to keep prices at low levels. When producers took advantage of the semi-mono-polistic situation to protect prices, they themselves were destroying the very basis upon which their privilego was founded.

Tables 5.4 and 5.5 will show that while Brazil was able to maintain to a large extent her share in world production, she lost a large part of the market to her competitors, especially to Columbia, a mild producing country and to Africa.

On the other hand, India's share in the world market declined very little over the interwar period, as can be seen from table 5.2.

Therefore the difference in the share of the world market for tea and coffee by the respective producing countries resulted in the differences in the impact of the stabilization programmes on prices.

However, the most important reason behind the success of the tea industry and the failure of the coffee industry in stabilizing prices was the nature of control. While the tea industry sought to attack this problem from its root, the valorization scheme was only postponing the solution to a future date. The regulation of exports to the tea market was done mainly through regulation of production. Plucking became the main instrument of regulation of output. Secondly, with the International Tea Agreement, restrictions were laid down on extension of acreage.

In the middle of 1931, when overproduction became obvious, the Indian Toa Association Calcutta, suggested the all further manufacturing

furtedo, opecitas p. 200.

should be stopped and the gathered leaves should be destroyed. The London Committee of the Indian Tea Association, turned down the proposal saying that it would only mean a postponment of the ultimate clearing up of the whole situation regarding overproduction.

In Grazil economic as well as political factors caused the policy makers to overlook this aspect of valorization. Under Grazil's stabilization programmes, control came to be exercised only over marketing. Production was left to find its own level. Not only was no attempt made to curtail production, planters were not even stopped from expanding area under coffee. The withholding of stocks lent an artificial support to prices and the rate of profit continued to be high enough to attract investment into new plantations. Output in Grazil's coffee plantations continued to expand at an unhindered rate and the pressure on prices in a market which was already glutted became more and more acute. The valorization scheme could merely precipitate an intensified oriels in the coffee economy in the long run.

The success or failure of a stabilization programme should therefore be measured according to the kind of effect it will have on
commodity prices. In the case of tes and coffee it will essentially
depend on whether etabilization of prices has been able to generate
some kind of a permanent solution to price fluctuations; in other words,
whether stabilization has been able to solve the problem of excess
supply, demand being a variable of escendary importance.

P. Griffths. op.cit.. p. 190.

The Brazilian experience as well as the Indian experience before the International Toa Agreement make it clear that stabilization programmos are not able to provide a permanent solution to the problem of excess supply in international markets, where changes in demand are not perticularly responsive to price and income changes. This is particularly true when demand is concentrated in particular countries which are industriclized and enjoy a high standard of living. Stabilization can have two types of impact.

first, in a situation of direct control over production, fluctuations in prices will depend on the control scheme. In a period, when control is exercised, prices will remain profitable, as in the case of the Indian tea industry. However, any relexation of control will lead back to the problem of overproduction. This was the experience of the control schemes devised for the Indian tea industry prior to 1933.

Second, the control scheme by giving artificial support to prices will aggravate the problem of overproduction and the final effect on the industry will be much more magnified as was the case of Brazil's coffee economy.

Therefore, from the preceding analysis it is possible to make the following generalisation — for a plantation crop which has low price and income elasticities of demand, stabilization schemes cannot generate a permanent solution to violent fluctuations in prices eince fluctuations are mainly determined by supply factors. Supply in the case of plantation crops is responsive to short run price changes only when prices are rising, but its responsiveness to short term slumps

in prices is extremely limited. Therefore there exists an over all trend towards increase in production when prices are fluctuating. Responsiveness of demand to price and income changes being weak, attempts at price stabilization will morely postpone the crisis in the sector under consideration. This is my first hypothesis.

Let me come to my second hypothesis now. It is in this context that the division of the interwar period with the international Tea Agreement as the point of reference, becomes important.

The essential difference between the two sub-periods is that the demostic market becomes an important outlet for the Indian tea industry only in the second sub-period. I would like to establish a causal relationship between the development of the home market and the success of the International Tea Agreement. The Tea Agreement distinguishes itself from the previous control schemesin the sense that for the first time the industry was able to dapend on the home market end active efforts were being made to develop it. Although the economy was still largely geared to the export market, the domestic market had undoubtedly come to play an important role. It could be utilized to cushion the effect of price slumps. This was one of the major differences of the Indian tea industry with the Grazilian coffee industry. While the Indian market had a large potential for absorbing additional quantities of tea, the Brazilian market offered no such outlet for the excess supply in the export market. Thus one arrives at my second hypothesis - stabilization of commudities prices can work out successfully if there exists a growing home market, even in a

plantation economy geared to the export market which has low price and income elasticities of demand for the commodity concerned.

In this context it may be pointed out that given the structure of demand and supply, stabilization of tea prices was likely to precipitate a greater crisis in the Indian tea industry in the 1930s had the expending home market not provided the necessary support.

However there would still remain a mejor difference between the Indian tea industry and the Brazilian coffee industry in terms of the structure of the two economies. In the next section I shall try to link up the necessity of price stabilization in the particular sector and the entire economic structure of that country.

H

The concept of export led growth rests on the theory of comparative edvantage. Economic development is visualised as a function of
firstly, the demand for the commodity in which the country in question
enjoys comparative advantage in the international market and secondly,
the forward and backward linkage effects between the export sector
and the rest of the economy. The question therefore is whether comparative edvantage can be taken as a given eltuation, which can be
accepted as the basis of an unhindered development of the export sector.

In the preceding chapters it has already been pointed out that a growing demand for primary products was related to a specific economic situation which prevailed in the mineteenth century and one has also

eeen that this is no longer true for the underdeveloped countries of today. In the words of A.K. Cairneross :

The specialisation between the old world and the new was on a basis that brought low cost farmers overseas into competition with high cost farmers in Europe and gave the development of the newer countries the leverage of a large cost differential. The new countries were in a very real sense the frontiers of an older economy. But the underdeveloped countries of today are selling in a more melastic market.

This is for two reasons. In the first place such elasticity as there is derives from competition with other products not from substitution for a similar home produced commodity. The Canadian wheat farmer found it easier to sell his wheat in the British market because Oritish farmers were able to switch from grain to grass, but the only kind of substitution that Brazilian coffee producers can benefit from is substitution on the part of consumers. Secondly, exports of tropical products bear a much higher relation to world output than exports of primary produce from temperate latitudes. The principal consumers of coffee, rubber, sugar end so on, lie outside the producing countries so that domestic demand is largely unaffected by changes in output and price. Conadian wheat is a very small fraction of the world crop. A given increase in the Cenadian whost crop or in Canad's export of wheat involves, therefore, a far less disruption in the world market than an equal proportionate increase in the cultivation or export of Brazilian coffee.1

Thus the growth in world demand for a large number of primary products in the post World War First period has been constrained by the inelasticity faced by the producers in these markets. I have shown already how the loo price and income elasticities of demand for tea and coffee have resulted in an extremely slow growth in world demand and how this has been a major factor in the process in which prices have been determined completely from the supply side.

¹ A.K. Ceirncross, <u>Contribution of Trade to Development</u>, in A.K. Ceirncross, Factors in Economic Development, London, 1962, p. 215-14.

Given the structure of demand and supply of tee and coffee, stabilization of prices will necessarily take the form of regulation of supply either through restriction of production or through control over marketing. This means that the stabilization of commodity price would require a alowing down of the rate of growth in the export sector.

Let me, at this point, refer back to chapter one, to Keynes' argument that stabilization will smooth out short term fluctuations and to Wallich's argument that stabilization will help to diversity the economic structure.

Thus there are two alternative postulates. Firstly, as a logical corollary to the enalytical framework of this research work, it follows that if a stabilization programme is to be successful for a plantation commodity having low elasticities of demand, then the rate of growth of the export sector will not be able to provide the dynamic force in the economy.

Secondly, stabilization, through amouthing out short run fluctuations will result in a shift in the dynamic centre eway from the plantation industry. According to Wallich high profits arising out of high prices tend to attract the factors of production towards the export industry.

Indeed it is rather interesting to note that both postulates deny the plantation industry the role of the dynamic centre in economic development. The two postulates are, however, fundamentally different.

while postulate one is a condition for the success of price stabilization programmes, postulate two is derived as a logical conclusion from the principle of price stabilization as put forward by Keynes. Let me therefore cite certain historical facts to build up a critique of the latter.

Both in the Indian tea industry as well as in the Brazilian coffee industry the stabilization programme gave an artificial support to prices. If one refers to the graph depicting price movements, it is quite clear that the control schemes did not amouth out fluctuations. but maintained prices at an artificially high level. This price level offered a premium to investment in the plantation industry leading to channelizing of additional resources into the eactor under a stable lization programms. In other words artificial support to prices created conditions for expansion of the export sector and/conditions for economic development as Wallich would say. This was the case both for Brazil's coffee industry and for India's tes industry. Therefore once historical developments on equinat Keynes' argument, the basis of Wallich's argument is sutomatically destroyed. Stabilization of commodity prices through control schemes does not refer to a situation in which short term fluctuations are counteracted, but one in which prices are maintained at an articially high level. The term stabilization is therefore a misuse in the case of tea and coffee. It refers to a situation where prices are maintained at a level higher than that under normal conditions of demand and supply, through regulation of supply.

This brings one to postulate one. As long as control schemes provide an artificial support to commodity prices investment will continue to increase in the sector enjoying price support. Therefore stabilization of the price of the export commodity and alosing down of the rate of growth of the export sector are mutually contradictory, since stabilization does not result in smoothing out short run fluctuations, but provides an artificial support to prices. The choice is, therefore, between stabilization of commodity price and expansion of the export sector and allowing prices to find their swn level and diversification of the economic structure.

The coffee industry in Grazil is a case in point. As long as coffee enjoyed artificial price support it continued to attract all investible resources. To svoid the profits from high prices from being changized into the coffee industry itself alternative investment opportunities at comparable rates of profit had to be open to the coffee planters. Such an opportunity was nonexistent because no other sector of the economy enjoyed a defense machanism so that profits could be maintained at an artificially high level. Prices paid to the coffee growers therefore had to be maintained at a level capable of discouraging new investments. This itself negates the necessity of a control scheme in the coffee industry of Brazil. A diversification of the economic structure emerged only when coffee prices had become unremmerative.

¹ J.D. Hirth, The Politics of Brezilian Development, p. 45.

A question arises - what is the nature of the difference between the Indian situation and the Brazilian situation? It is basically the difference in the economic structure which lead to the differences in conclusions.

In the 1920s Brazil's economy was heavily weighted towards agriculture. It accounted for 70 per cent of the national product. while industry accounted for only 30 per cent. Over 70 per cent of the value of exports was coffee. Given the demand factors for coffee, stabilization of prices would merely postpone the cricis which was becoming more and more intensified through additional investments in the coffee sector. Secondly, given Grazil's economic structure Grazil could not depend on coffee to provide the dynamic force in economic growth. It necessarily had to think in terms of either alternative export crops or import substitution industrialization. Therefore economic prouth depended on diversification of the economic structure through the withdrawal of price support schemes in the coffee industry of Brazil. In other words, stabilization of coffee prices was incompatible with the economic structure of Brazil which was centred around a single export commodity. A diversification of the economic structure emerged only when coffee prices had become unrenumerative.

To Indian tea industry on the other hand enjoyed a very different position in the economy. At the end of the First World War not only did India have a diversified agriculture, the industrial structure too had developed considerably. Her exports were also much diversified

The was one of the major expor items but not the main export earner. In 1930 it accounted for about 10 per cent of the total value of Indian exports and ranked as the third important export earner efter cotton and jute. The changes in its relative position is shown in the following table.

Percentage Shore in the Total Value of Exports

SALUEN ALIEN ALIEN AND ALIEN A	1930÷31	1931-32	1932-33	1933-34	1934-39
Cotton	28.08	10,30	9.80	12.69	15.94
Jute Manuf.	13.62	7,30	10.50	9.69	9.63
Tea	10.19	8.50	8,30	9,13	9.18
	1935-36	1936-37	1937-38	1938-39	
Cotton	16.03	19.08	13.84	12.86	 -
Jute Manuf.	11.08	11.77	13.55	13.89	
Tea	9.41	8,59	11.60	12.92	

Source : Government of India, Statistical Abstracts, 1942.

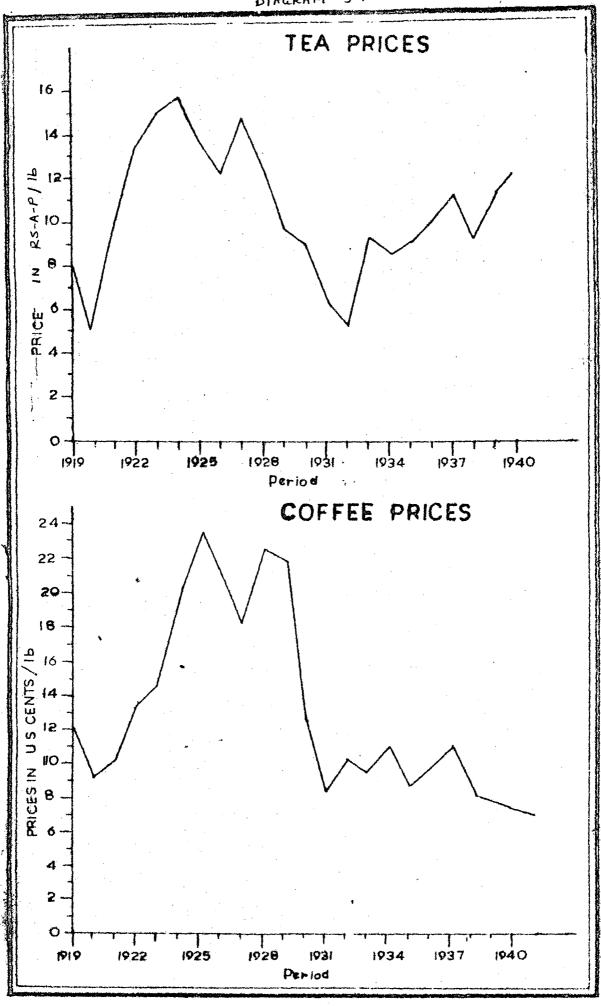
In such a diversified economic structure restrictions imposed on production and export of tea would raise prices and help to maintain export earnings. Since the development of the Indian economy was not linked to the growth of this particular sector, maintenance of export earnings from tea was the primary aim. Application of control schemes to the Indian tea industry was therefore justified so far as prices and incomes recovered. A second major departure of the Indian tes industry from the coffee economy of Grazil was the existence of a potential domestic market which could act as a cushion to the demand-supply conditions in the export market and provide an outlet for further expansion of the tes sector. Stabilization therefore, did not lead to a more intensified crisis as in Brazil.

Brazil in the twentieth contury was no longer in a position to maintain her coffee sector at the leval enjoyed by the industry during the peak of its prosperity. Given the structure of the market, it was inevitable that the growth of the industry would alow down and coffee would not be able to take the lead in Brazil's export—led growth. The valorization scheme markly postponed the shift of the factors of production from the coffee economy. Therefore, the stabilization of coffee prices was not only not a necessity but resulted in a missilication of resources and hence acted as a fetter on economic development.

Stabilization of tem prices on the other hand, strengthened the position of the tem industry in the Indian economy. Development of the home market was a corollary to the effects of stabilization.

As one can see, the differences in the two situations arose out of the differences in the economic structure and no generalizations can be made without taking into account the etructure of the economy and the structure of demand and supply. If hypotheses one

and two stand valied, hypothesis three follows from it - in an economy based on a single export product whose price is determined by supply factors due to a low electricity of demand, stabilization of commodity prices negates its entire logic.



CHAPTER VI

Conclusion

In the concluding part I shall try to briefly summeries the arguments put forward in the preceding chapters.

The research problem concerns stabilization of prices of primary products. I have been particularly concerned with the plantation economy because historically plantation crops have been most vulnerable to price fluctuations. This is because of the nature of demand and supply of most plantation crops. On the supply side the factors of productions exhibit a certain degree of stickiness due to the initial investment requirements and the gestation lag between setting up a plantation and its maturity. On the demand side also there is a certain degree of stickiness arising mut of low price and income elasticities of demand for certain plantation crops like tes and coffee. Given the conditions of production and the nature of demand, prices of tea and coffee in the international market have tended to be determined mainly by supply factors. One important feature of the Indian tes industry as well as the Brazilian coffee industry has been repeated crises following over-production.

The interwar period saw an acute crisis in both industries.

Prices declined rapidly in the face of stagnant demand and growing

production. Supply to the international market determined the movements in prices and from the second half of the 1920s excess supply in the export market led to a collapse in prices and incomes.

The reaction to the crisis during the interest period came in the form of stabilization programmes. Both in India and in Brazil attempts were made to regulate supply in the international market either through requirting production or through controlling exporte. The aim of my study has been to evaluate these stabilization echemes and to arrive at certain broad generalizations with regard to atabilization of commodity prices. I have chosen the Indian tee industry and the Brazilian coffee industry as particular cases for the study because of the following reasons, firstly, the and coffee conform to the demand and supply patterns I have mentioned. Secondly Grazil and India have been the major producers of coffee and tea respectively and both countries have been dependent on one particular market, for instance Indian tem on the British market and Brazilian coffee on the U.S. market. Thirdly, the position of these export sectors in the respective economies being very different, a comparative study can be made to relate the success or failure of a stabilization programme with the structure of the economy; for example, while coffee, till the onset of the Great Depression, was still the major economic ectivity in Brazil, the Indian tee industry was only one of the major export sectors in an economy which was already much diversified.

The analysis begins with reference to two postulates. One put

forward by Keynes in 1938 that a stabilization programme does not temper with market mechanism in so far as it helps to amouth out unwanted price fluctuations in the short run and the second, put forward by Wallich to argue that stabilization of prices of primary products, by wiping out high profits, would help an economy to diversify from its position as a primary producer.

The research work involves case studies of stabilization achomes evolved in Brazil and in India during the interwar period to show that such generalizations cannot be made without taking into consideration the structure of demand and supply of the commodity in question and the structure of the accnowy in which it is produced.

In chapter one I have shown that demand for tea and coffee is extremely inelectic in terms of its responsiveness to price and income changes particularly in the developed countries. Figures are given to show the stickiness of demand for coffee in the U.S. market and that of demand for tea in the British market.

Given the atructure of demand, the supply factor determine prices and therefore stabilization of prices through regulation of supply will have to take account of the structure of demand to judge the morite of a stabilization programme. I have put forward the following hypotheses --

(a) Stabilization of prices cannot provide a permanent solution to price fluctuations for commodities which exhibit low price and income elasticities of demand, especially when demand is concentrated in particular countries. It will marely postpone the crisis.

- (b) A commodity with low price and income elasticities of demand in the export market, may still benefit from a stabilization programme if there exists a large potential domestic market.
- (c) Stabilization of commodity prices hinder the process of development in economies dependent on a single export item when the commodity in question exhibits low elasticities of demand. The next two chapters are case studies of the control achieves

In chapter two, titled "export-oriented control system in the tea industry in India (1920-39" an analysis has been made of the demand and supply factors to show that the tea prices in the interwar period were determined from the supply side.

in Indian tem industry and in Brazilian coffee industry.

The Indian tea industry resolded to the price slumps during this period by imposing control over supply of tea to the British market. The first control scheme devised in the wake of the price alump in 1920 came in the form of total curtailment of plucking by the members of the Indian Tea Association, from a certain period. The second one was characterised by imposing limits to production for individual estates by the Indian Tea Association, the limit varying with the quality of tea produced so that the supply of common tea which was the most important factor in determining prices was most drastically reduced. The third control scheme was the International Tea Agreement of 1953 which provided for regulation of exports from India, Ceylon and Indonesia, the countries which accounted for 80 per cent of the world's cutput of tea.

The point which segross from the angivels of the three control achasse in terms of recovery of prices and incomes is that whather control was exercised at production point or at the point of export. the impact on the industry remained the same. The reason underlying this phenomenon is that be it curtailment of output the through finer plucking or be it curtailment of supply to the export market through export quotas, what remained as the focal point was the demand in the British market. While the advertising campaign was concentrated OR an already esticfied British market and the unresponsive American market which remained faithful to coffee, very little was done to develop the potential market which existed in India. It was this export orientation of the control acheme which prevented the industry from evolving a dependable system against price slumps. As soon as prices tended to recover in response to a particular control scheme the industry would lossen its control and coarse plucking would lay the foundation for yet another crisis. It was only in the 1930s when the producers were forced to consider the development of a potential home market and started a vigorous sales promotion that there was an extremely rapid growth in the domestic consumption of tea. By the and of 1930s the home market was large enough to provide an outlet for the export eurplus and lead to a more successful functioning of the stabilization programms. If the process of devalopment of the domestic market had started earlier, the industry could have enjoyed its support to cushion the effects of excess supply in the export market during the Great Depression.

Chapter three analyses the stabilization programme adopted by Brazil's coffee industry during the interwar period. The control scheme came to be known as the 'valo-rization' of coffee. The industry had experimented with valorization a few times since the turn of the century, but from 1924 it became a permanent feature of the industry. It consisted of two phases. The first one, which leated till 1930, saw regulation of movements of coffee stocks to the ports. Inventories were piled up in interior Grazil by raising loans in the international market. The second phase saw the burning of coffee stocks which had been accumulated in the interior.

The impact of valorization on coffee prices was that it prevented a custained decline and thereby helped to maintain the coffee industry as a profitable outlet for investible resources. However. the economic impact of the valorization of coffee, bore important consequences for the Grazilian economy as a whole. By maintaining coffee prices at an artificially high level factors of production continued to be attracted to this industry and acreage under coffee showed a continuous increase. The profits from coffee trade continued to be ploughed back, especially since no other sector of the economy enjoyed any price support. This not only helped to perpetuate the primary producing status of Brazil viewewwis import substitution industralisation but also prevented diversification of the agricultural sector. Therefore, in the latter half of the 1930s when even export achemes were unable to maintain prices, Brazil saw the emergence of alternative export crops, like cutton and a rapid development of her industrial structure.

Two aspects of the stabilization programms in the Brazilian coffee industry have been discussed in datail. Firstly, the factors which made valorization of coffee a feasible solution. Secondly, the factors which led Brazil to adopt such a mechanism. In the first case, Brazil's position as a monopolist in the world market assumes importance. In the second case, what is unphasized is that Brazilian coffee being the morginal detorminant of prices, the problem of over production was essentially confined to her own industry and her competotors see the price support scheme as a measure which could be exploited to their own advantage. Even after G. Vargas assumed power in 1930, while he opposed the domination of the coffee plenters, the excessive dependence of the economy on a single export item gave him very little room for manuscure and the burning of coffee stocks to maintain export estnings became a part of his economic policy.

In chapter four the role of the political pressure groups in evolving the stabilization programms in the two industries have been evaluated. In the case of both industries the planters lobby has played a dominant role in policy formulation. The coffee planters of Sao Paulo particularly have been able to influence the state machinery in exacting various privileges and in taking care of their interests while formulating policies. The political dominance of the coffee planters began with the republican decentralization of Brazil in 1889. Not only were the planters able to dominate the policy formulations in the coffee producing states, but through majority representation

at the Centre, were able to manipulate decisions regarding various general economic and political factors in their favour. For example, though the valorization was started by the state of Sao Paulo, the federal Government was forced to take over all responsibilities very acon.

The situation however changed with the assumption of power by Getvolio Vergos, the first President from a non-coffee growing state. He challenged the political dominance of the coffee planters, but given the structure of Grazil's economy was unable to move out of the bias towards coffee in Grazil. What was more important was that, even to Vargas the strategy of export led growth was the key to Grazil's development. Therefore while the political pressure from the planters lobby had been the major factor behind stabilization of coffee prices through velorization in the pre-1930 period, the burning of coffee etooks in the 1930s followed from the existing economic structure of Grazil and the immense faith in the concept of export led growth.

Association, as the forum of the planters lobby as well as the forum of the foreign capital in the tea industry, was able to evolve control schemes to protect their own interests. Particularly, the internstional Tea Agreement by linking export quotes to past performance and by prohibiting extension of acreage acted as a definite hinderence to development of indigenous interests i.e. Indian enterprise in the industry. The role played by the Indian Tea Association in the formulation of the International Tea Agreement apeaks of the role of the planters as a political pressure group.

If one makes a comperative study then one mejor difference comes to notice. This exists out of the differences in the structure of the two economies. Due to the dominance of Brazil's coffee sector, any policy decision with regard to the coffee industry had far feaching influence on the course of development of the entire economy. On the other hand, the impact of any policy measure with regard to the Indian tea industry remained confined to that sector slone.

In this context it is necessary to mention the role played by
the coffse interests in Brazil in determining the movements in the
exchange rate. The planters used depreciation of the Brazilian
currency as an instrument to cushion the impact of falling prices.
Thus even at the cost of the consumers, particularly in the urban
areas, the coffse interests were able to maintain their incomes through
depreciation of the Brazilian currency at least till the enset of the
Great Depression. During the 1930s, however, under the impact of
Vargas' policy the degree of depreciation lagged behind the degree of
fall in prices.

On the other hand, the Indian tes interests were faced with an over valued Rupse almost through the entire interest period; i.e. other interests prevailed over that section of foreign capital which the tes lobby represented.

In chapter five a comparative analysis is made of the stabilization programmes to see what kind of generalizations can be made.

A comparison of the price movements in tea and coffee during the interwer period will show that there is a broad similarity during the 1920s. However in the 1930s while tea prices show a definite recovery after 1933, coffee prices tend to move more and more towards

an absolute collapse.

The differences arise from the share of the respective countries in the world market which also characterises the nature of the control schemes. Brazil being the monopoly producer in the world market was able to give an artificial support to world prices. However by doing so she destroyed her advantages as a monopolist. Secondly, as a consequence of the type of coffee produced which makes Brazil the marginal determinant of prices, and which made the crisis mainly Brazil's problem, the stabilization scheme encouraged her competetors to grab a part of Brazil's market. Thus the stabilization programms merely postponed the crisis.

For tea, on the other hand, India though the largest producer was not in a position to determine world prices. Sesides the problem of ever production affected Ceylon and Indonesia as well. The control achieves were able to lead to a recovery in prices, but once the control was withdrawn production would be increased leading to a further pressure on prices. The departure from this general trend came with the International Tea Agreement of 1933. The development of the demestic market in the 1930s, was able to cushion the impact of excess supply in the world market.

From the comparative analysis it is possible to show the hypotheses one and two are correct. Firstly, for commodities exhibiting low electicities of demand stabilization would merely postpone the crisis. Secondly, only when the industry in question enjoys the support of a domestic market, can stabilization provide a meaningful solution.

In the second section of chapter five I have dealt with hypothesis three - whether the structure of the economy would determine the success of the stabilization programme.

The provious analysis has already shown that stabilization does not smooth out short run fluctuations as Keynes would say, but rather lend on srtificial support to prices.

Next comes Wallich's argument that stabilization through smoothing out fluctuations and thereby miping out high profits would encourage a diversification of the economic structure. However, once Keynes's argument is proved wrong, the basis of Wallich's argument is destroyed. The situation which emerges is quite opposite. Stabilization of prices of primary products would prevent a shift of the factors of production to elternative activities. Therefore, in an economy like Brazil, where the sector under stabilization constitutes the major economic activity. stabilization of prices would intensify the crisis of over production. Stabilization by encouraging a misallocation of resources would constitute a fatter on the economic development since given the low electicities of demand stabilization cannot provide the conditions for an export led growth. On the other hand, for a commodity like Indian tea which is merely an important export earner and at the same time enjoys the support of a domestic market, stabilization of prices may help to maintain export earnings.

Therefore, it is the structure of the economy which would determine the necessity of a price stabilization. Any generalizations made without taking account of the economic structure is open to doubt on account of the international experiences studied here.

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