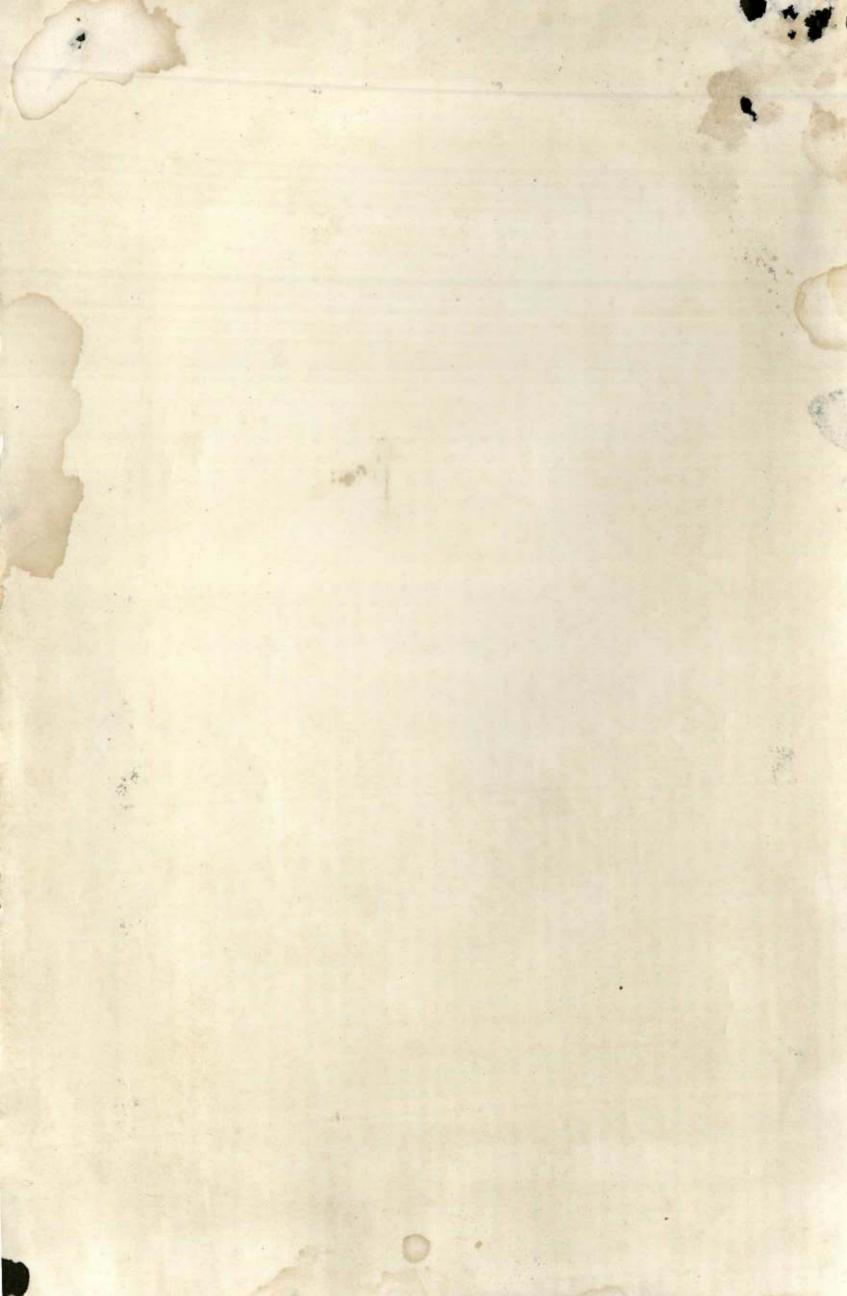


GOVERNMENT OF KERALA

kerala in maps 1978



BUREAU OF ECONOMICS AND STATISTICS TRIVANDRUM



KERALA IN MAPS



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GOVERNMENT OF KERALA
1978

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KERALA IN MAPS

Bureau of Economics and Statistics Government of Kerala Trivandrum

MAPS AND CHARTS PRINTED AT CENTRAL SURVEY OFFICE, TRIVANDRUM PRINTED BY THE S.G.P. AT THE GOVERNMENT PRESS, ERNAKULAM—1979

PREFACE

This publication of the Bureau is aimed at a picture-sque presentation of the important economic aspects related to Kerala. The data presented in the maps are mostly related to the year 1976. The narrative part is incorporated with a view to providing detailed understanding of the economy of Kerala.

Bureau of Economics and Statistics, Trivandrum, September 6, 1978.

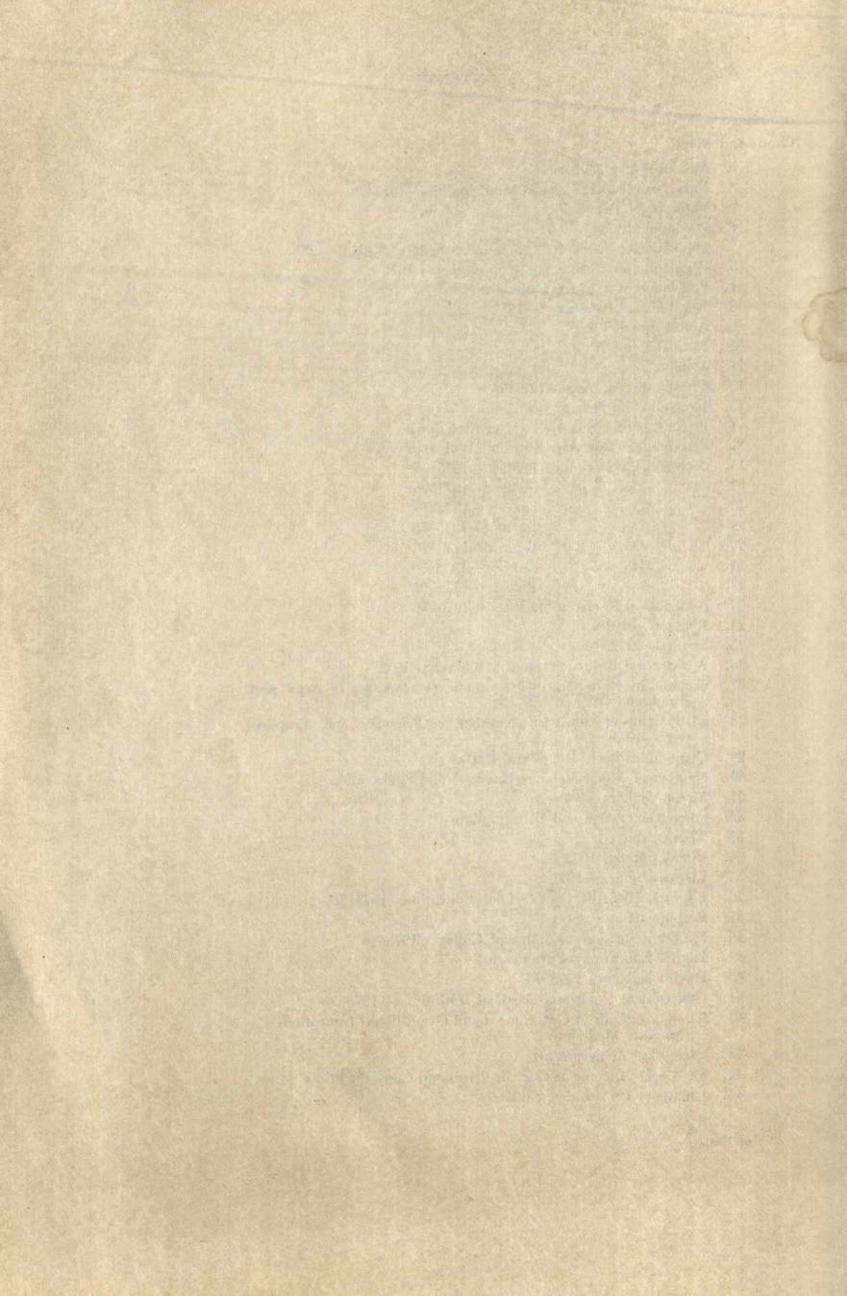
DR. P. A. NAIR, Director. ADAMA

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INTRODUCTORY NOTE

I. General

With the enactment of the States Reorganisation Act of 1956, Kerala State came into existence on 1st of November, 1956. The State consists of the erstwhile Travancore Cochin State (excluding the Taluks of Thovala, Agastheeswaram, Kalkulam, Vilavancode and major portion of Schencotta). the Malabar District of the former Madras State and the Kasargode Taluk of the South Canara District of the former Mysore State, The State lies at the southern tip of the Indian Peninsula between 8° 18' and 12° 48' north latitudes and between 74° 52' and 77° 22' east longitudes. It is elongated in shape and is bounded on the eastern side by the western ghats which form a continuous barrier except the Palghat gap towards the middle and flanked on the western side by the Arabian Sea. The breadth of the State varies from 30 km. in the extreme north and south to about 130 km. in the middle. The State has a coastal line of about 580 km. from south to north. The area of the State is 38,864 sq. km.

For the purpose of administration, the State is divided into 11 Revenue Districts viz., Trivandrum, Quilon, Alleppey, Kottayam, Idikki, Ernakulam, Trichur, Palghat, Malappuram, Kozhikode and Cannanore.

Trivandrum is the capital of Kerala State. Besides its importance as the capital of the State, it has always been an important centre of education. The seat of the Kerala University is at Trivandrum. In the city and its suburbs there are a number of institutions of higher education. Kovalam, an international tourist centre is only 14 km. away from the city and similarly the Neyyar Dam—another tourist resort—is only at a distance of 29 km. The city is connected by air and rail services.

II. Physical Characteristics

Topographically the State can be divided into three natural regions, viz., the lowland, the midland and the highland. These regions form parallel belts running across the length of the State. The highland region lies on the eastern boundary comprising the high ranges of the western ghats and the lowland is a narrow strip along the seacoast. The midland lies in between these two regions.

In the lowland area the rainfall ranges from 900 mms. in the south to 3,500 mms. in

the north. The soil in the area is mainly sandy loam which is suited for paddy and coconut cultivation. There are numerous lagoons and backwaters in this area receiving drainage of several rivers. The large number of backwaters along the coast are interconnected by a net work of canals affording cheap water communication from Trivandrum in the south to Tirur in the north (nearly 354 km.). Paddy and coconut are the important crops grown in this area.

The midland region consists of land of varying elevation full of hills and valleys. The rainfall ranges from 1,400 mms. in the south to about 4,000 mms. in the north. The soil in the area is loamy and gravelly. The main crops cultivated in the region are coconut, paddy, tapioca, pepper, sugarcane and ginger.

Most of the reserve forests of the State are in the highland region. The annual rainfall ranges from 2,500 mms. in the south to about 5,000 mms. in the north. In this region the means of communication are comparatively poor and the soil is mainly laterite combined with humus. The main crops cultivated are plantation crops like tea, coffee, rubber and cardamom. Considerable income from forest products like rosewood, teakwood, hard and softwood is obtained from the region. The important peaks in the western ghats are Anamudi (2,690 metres), Mukunti (2,550 mts.) and Nilgiris (2,470 mts.).

Kerala has a good number of rivers originating from the ghats and flowing into the sea. Of the 44 rivers in the State 41 are flowing west and the remaining 3 are flowing east. The east flowing rivers are tributaries of the Cavery River. Among the west flowing rivers Bharathapuzha is the longest with a length of 250 km. The other important rivers are Periyar, Manimala, Pamba, Achancoil and Muvattupuzha. The rivers which flow west after traversing the high mountainous regions descend rapidly to the midland and are mostly rich in hydel power potential. The average length of the rivers is 64 km.

III. Area and population

The area of Kerala is 38,864 sq. km. which is 1.18 per cent of the area of the Indian Union. The population of Kerala has been

growing rapidly in recent years. During the 40 year period from 1901 to 1941, the population of the State almost doubled from 63.96 lakhs to 110.30 lakhs and it almost doubled again in the next 30 years reaching 213.47 lakhs in 1971. The decadent variation in population is presented in Table 3.1. The districtwise area and population of the State are given in Table 3.2.

Table 3.1

	VARIATION OF PO	PULATION
1901	4 (A) (17)	6,396,262
1911		7,147,673 7,802,127
1921		9,507,050
1941		11,031,541 13,549,118
1951	A STATE OF THE	16,903,715
1971	313.	21,347,375
1976	DCC. THE	23,737,000

Table-3.2

St. No.	AREA, POPULAT District State	Area Sq. km.	Population (1971) in lakhs	Density (1971) Per sq. km.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Trivandrum Quilon Alleppey Kottayam Idikki Ernakulam Trichur Palghat Malappuram Kozbikode Cannanore State	2,192 4,623 1,884 2,196 5,087 2,377 3,032 4,400 3,638 3,729 5,706 38,864	21-99 24-13 21-26 15-39 7-65 21-64 21-29 16-85 18-56 21-06 23-65 213-47	1,003 522 1,128 701 150 910 702 383 510 565 415

Areawise, Cannanore District ranks first and Alleppey District last. The density of population is highest in Alleppey District followed by Trivandrum District and lowest density is in Idikki District.

The distribution of taluks, villages and towns as well as number of panchayats, munici-

palities, corporations and townships in the various districts of the State are presented in Table 3.3 and 3.4

Table 3-3

	DISTRICTWISE I	TOWNS, ETC		S, VILLAGE	s,
Sl. No.	District State	No. of Taluks	No. of Revenue Villages	No. of Census Villages	No. of Towns
LINGS	Trivandrum	4	92	493	10
1.		6	100	790	4
2.	Quilon	7	99	613	- 8
3.	Alteopey	5	74	379	8
4.	Kottayam	4	42	258	2
5.	Idikki	7	101	660	11
6.	Ernakulam	5	249	903	9
7.	Trichur	5	144	472	8
8.	Palghat		122	588	5
9.	Malappuram	4	123	567	10
10.	Kozhikode	6	188	652	13
11.	Canoanore	0	100	000	Special N
	STATE	57	1,334	6,375	88

Table 3-4
Districtwise distribution of panchayate and municipalities—1976

District	No. of Panchayats	No. of Municipalities	No. of Corporations	No of Townships
Trivandrum	82	2	the I had be	Harris In Co.
Quilon	99	2 5		and street
Alleppey	96	5	**	
Kottayam	71	1 4 4 6 6	81 40 E	WILLIAM STATE
Idikki	50	State State Smith	AND THE	SI TESSESSION
Ernakulam	86	4	1	i
Trichur	94	4	THE STATE OF THE S	
Palghat	89	2 2	THE PARTY OF THE P	1000
Malappuram	91	2		Santa well
Kozhikode	90	Maria 10 mg	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
Cannanore	124	3	TO BOW I DR	-
TOTAL	972	29	3	1

The male and female population and sex ratio in the different districts of the State according to 1961 and 1971 Census is furnished in Table 3.5 and 3.6.

Table 3.5
POPULATION BY SEX 1971

		de coomini	Fei	nale	Total	
Name of District Trivandrum Quilan Alleppey Kottayam Idikki Ernakulam Trichur Palghat Malappuram Kozhikode Cannanore	1961 869,884 972,657 893,435 882,580 931,248 784,736 851,746	Male 1971 1,095,176 1,205,720 1,048,032 773,182 395,297 1,088,432 1,022,774 819,571 909,515 1,057,764 1,172,338	1961 874,747 968,571 917,817 850,300 928,665 855,126 924,820 1,316,215 905,627	1971 1,103,430 1,207,101 1,077,640 765,848 370,311 1,075,242 1,106,023 865,771 946,847 1,018,485 1,192,826	1961 1,744,531 1,941,228 1,811,252 1,732,880 1,859,913 1,639,862 1,776,566 2,617,189 1,780,294	1971 2,198,606 2,412,821 2,125,722 1,589,030 765,608 2,163,674 2,128,797 1,685,342 1,356,362 2,106,249 2,365,164
Kerala state	8,361,927	1,058,785	8,541,788	10,759,524	16,903,715	21,347,375

The districts of Idikki and Malappuram were carved out from Kottayam, Ernakulam, Palghat and Kozhikode Districts after the 1961 Census.

Table 3.6

SEX RATE	O (FEMALES PER 1000 MALES		
CI MA	District	Sex	ratio
Sl. No.		1961	1971
713	(2)	(3)	(4)
(1)	Trivandrum	1,005	1,007
1. 2. 3.	Quilon	996	1,001
4.	Alleppey	1,027	1,028
3.	Kottayam	988	991
4.		966	937
5.	Idikki	999	988
6. 7. 8. 9.	Ernakulam	1,093	1,081
7.	Trichur	1,077	1,056
8.	Palghut	1,057	1,041
9.	Malappuram		991
10.	Kozhikode	992	1,017
11.	Cannanore	1,035	1,017
	STATE	1,022	1,016

A peculiar feature of the sex composition of the State is that in all the census periods from 1901 to 1971, females outnumbered males, while opposite is the case with most of the other Indian States. The sex ratio of the State during 1961 and 1971 was 1,022 and 1,016 respectively as against 941 and 930 respectively for India as a whole. Trichur District maintained the highest sex ratio with 1,081 females per 1,000 males and Idikki District has the lowest sex ratio with 937 during 1971.

Another demographic feature, which needs to be looked into, is the population belonging

to Scheduled Castes and Scheduled Tribes. The figures for 1971 are given in Table 3.7.

Table 3.7

BOBULATION OF SCHEDULED CASTES AND S	CHEDULED TRIBES	(1971 CENSUS)	
--------------------------------------	-----------------	---------------	--

		Scheduled castes			Scheduled tribes	
District	Persons	Male	Female (4)	Persons (5)	Male (6)	Female (7)
(1) Trivandrum	(2) 213,741 280,632	(3) 105,111 139,707	108,630 140,925	11,059 3,737	5,523 1,901	5,536 1,836 214
Quilon Alleppey Kottayam	200,770 94,528 97,819	100,074 47,566 49,723	100,696 46,962 48,096	435 11,059 23,181	221 5,640 11,846	5,419 11,335
Idikki Ernakulam Trichur	182,775 216,237 210,765	91,403 106,436 103,784	91,372 109,801 106,981	580 9,363 25,594	361 4,604 12,870	219 4,779 12,724
Palghat Malappuram Kozhikode	140,826 76,338 57,737	69,254 38,417 29,421	71,572 37,891 28,316	8,882 84,982 90,464	4,382 42,579 45,069	4,500 42,403 45,395
Kerala	1,772,168	880,926	891,242	269,356	134,996	134,360

Source: Director of Census Operations, Kerala.

A comparative statement showing the area, population, density, sex ratio, etc., of Kerala

and the other Indian States is furnished in Table 3.8.

Table 3.8

AREA, POPULATION, DENSITY, SEX RATIO, ETC., OF DIFFERENT STATES IN INDIA, 1971

Sl. No.	State	Area Sq. km.	Percentage of area	Population in lakhs	Percentage of Popu- lation	Density per Sq. km.	Sex ratio	Rank in area	Rank in Population
THE PARTY OF	THE PARTY OF THE P	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(1)	(2)		8.97	883-41	16-12	300	879	4	1
1.	Uttar Pradesh	294,413	5.30	563-53	10-28	324	954	9	2
2.	Bihar	173,876	9.38	504-12	9-20	164	930	3	3
3.	Maharashtra	307,762	2.68	443.12	8.09	504	891	12	4
4.	West Bengal	87,853	8.44	435-03	7-94	157	977	5	5
5.	Andhra Peadesh	276,814 442,841	13.50	416.54	7-60	94	941	1	6
6. 7.	Madhya Pradesh	130,069	3.96	411.99	7.52	317	978	11	7
7.	Tamil Nadu	191,773	5.85	292-99	5.35	153	957	8	8 9
8.	Karnataka	195,984	5.97	266-97	4-87	136	934	7	
9.	Gujarat	342,214	10.43	257-66	4-70	75	911	2	10 11 12 13 14
10.	Rajasthan	155,782	4.75	219-45	4-00	141	988	10	11
11.	Orissa	38,864	1-18	213.47	3.90	549	1,016	17	12
12.	Kerala	78,523	2-40	146.25	2.67	186	897	13	13
13.	Assam Puniab	50,362	1.54	135-51	2-47	269	865	15	14
14.	Hariyana	44.222	1:35	100-37	1 83	227	867	16	15
15.	Jammu and Kashmir	222,236	6.77	46-17	0.84	21	878	0	16 17 18
16. 17.	Himachal Pradesh	222,236 56,673	1-70	34.60	0.63	62	958	14	10
18.	Tripura	10,477	0-32	15.56	0.28	149	943	19	10
19.	Manipur	22,356	0.68	10.73	0.20	48	980	18	19 20
20.	Meghalaya	22,489	0.69	10.12	0.18	45	942 871	20	21
21.	Nagaland	16,527	0.50	5-16	0.09	31	0/1		41
22.	Union Territories	119,373	3.64	63.42	1.24	56	**		-
C NEW	India	3,280,483	100.00	5,479-50	100-00	167	930	**	

Though the area of the State is only 1.18 per cent of the Indian Union, its population forms 3.90 per cent of the Indian population according to 1971 census. The high growth rate of population has its impact on the density of population. The pressure of population is highest in Kerala when compared to the other States of the Indian Union. The density of population of the State is 549 per sq. km. (1971 census) as against 167 for India as a whole.

IV. Workers and non-workers

While about 70 per cent of the workers in the Indian Union are cultivators and agricultural labourers; in Kerala only less than 50 per cent of the workers come under this category. The industrywise distribution of working population in India and Kerala is given in Table 4.1.

Table 4-1

CLASSIFICATION OF WORKERS ACCORDING TO INDUSTRY 1971

SI.		Kere	ala	India	1
No.	Industry	No. of workers (in lakhs)	Per- centage	No. of workers (in lakhs)	Per- centage
(1)	(2)	(3)	(4)	(5)	(6)
1.	Cultivators	11-1	17·8	781 - 8	43.3
2.	Agricultural labourers	19-1	30-7	474-8	26.3
3.	Livestock, forestry fishing	4.3	7-0	43.0	2.5
4.	hunting and plantation and allied activities Mining and quarrying	0-3	0.5	9.2	0-5
5.	Manufacturing, processing servicing and repairs, et	tc.			
	(a) Household indust	ry 2.7	4.3		3.5
	(b) Other than house hold industry	7.1	11.4	107-2	5-9
6.	Construction	1-1	1-7	22.2	1.2
7-	Trade and Commerce	5.7	9.1	100:4	5.6
8.	Transport, Storage and Communications	1 2.4	3-9	44.0	2-4
9.	Other services	8-4	13-6	157.6	8.8
	TOTAL	62.2	100-00	1803-7	100.00

It is seen that industrial sector provides jobs for 15.7 per cent of the workers in Kerala as against 9.4 per cent for the country as a whole. But the share of the industrial sector to the State income is very low since a good

majority of the industries in the State are traditional industries characterised by low productivity and low wages.

The distribution of workers in the different districts of the State is presented in Table 4.2.

Table 4-2

SI.			1961		1971	
Vo.	District	Workers	Percentage of workers to total popu- lation	Workers	Percentage of workers to total popu- lation	
(1)	(2)	(3)	(4)	(5)	(6)	
1.	Trivandrum	5.41	31-06	6-28	28-58	
2.	Quilon	6.31	32-51	6-90	28-61	
3.	Alleppey	6.10	33-72	5-98	28-15	
	Kottayam	3-87	29.32	4-21	27-33	
4.	Idikki	2-31	39.09	2.65	34-62	
	Ernakulam	5.65	33.56	6-21	28.71	
6.	Trichur	5.59	33.11	6-03	28:35	
7.	Palghat	5+50	40.47	6-05	35-89	
8-		4.47	31.56	5.03	27-08	
9.	Malappuram	4-79	30:49	5.67	26.92	
10.	Kozhikode	6-30	35.37	7-15	30-21	
11.	Cannanore	0.30	33 37		90.10	
	STATE	56-30	33-31	62.16	29-12	

The participation rate of workers in Kerala during 1971 is 29·12 per cent as against 33·31 per cent in 1961. Out of the total number of workers 15·04 per cent is in the urban area in 1971 as against 13·4 per cent in 1961.

The percentage distribution of population in different industrial categories and the percentage of non-workers in the different districts of the State is given in Table 4.3.

Table 4.3

	PERCENTAGE												
	Industrial category	Trieandrum	Quilon	Allepto	Kottayam	Idikki	Ernakulam	Trichur	Palghar	Malappuram	Kozhikode	Санапоте	State
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
7.5	Cultivators	4-02	7-69	4.51	6.74	8.85	3-69	3.87	5.65	5-10	3-92	5.53	5-19
1.	Agricultural Iabou-	8.53	5-95	8-65	7.68	7.78	6.30	9-31	17-38	10-59	7-09	10.25	8.94
3.	rers Livestock, forestry fishing, plantation	1.54	1-70	1.52	2.01	10-72	1-57	1-41	1.29	1-62	2.89	1-60	2.04
	orchards and allied activities	0-13	0-10	0-06	0-11	0.05	0.20	0.20	0.10	0.14	0.16	0.21	0.14
4.	Mining and Quarry- ing	0-13	0.10	0 00						0.84	0.88	1.18	1.25
5.	(a) Household industry	1.51	1-08	1.96	0.86	0.32	1.19	1.66	1+53	0.04			APO EL
	(b) Other than Household industry	3-40	5.16	2-91	2.13	1.28	4.83	3.66	2.52	1.86	2.82	3.77	3.34
-	Construction	0.46	0-37	0.44	0.49	1.06	0.87	0.46	0-49	0.36	0.47	0-43	0-50
6.	Company of the Market of the Company	2.39	2.13	2.73	2+39	1.44	3-12	2.87	2.50	2-36	3-35	3.00	2.65
7.	Trade and commerce Transport, storage	1.06	0.85	1.13	0.93	0.41	2.08	1-14	0.99	0-93	1.54	0.90	1-13
8.	and Communica-	. 00										0.91	3-95
9.	Other services	5.54	3.58	4.26	3-99	2.71	4.86	3.77	3-44	3-28	3-79	3-34	
10.	Non-workers	71-42	71-39	71-83	72-67	65-38	71-29	71:65	64-11	62.92	73-09	69.79	70.87
	TOTAL	100-00	100-00	100.00	100.00	100.00	100-00	100.00	100.00	100:00	100-00	100.00	100.00

According to 1961 census 8.49 per cent of the total population of Kerala belonged to Scheduled Castes. In 1971 the percentage of Scheduled Castes to the total population was 8.30 per cent. It is seen that 1.26 per cent of the total number of persons in the State are Scheduled Tribes according to 1961 and 1971 Population Census Reports. Idikki District has the highest percentage of Scheduled Castes population to the total population in the District. In absolute numbers Quilon District has the maximum

number of Scheduled Castes population when compared to the other districts of Kerala.

With regard to religion it is seen that 59.41 per cent of the total population are Hindus, 21.05 per cent Christians, 19.50 per cent Muslims and the rest (0.04 per cent) belong to other religions.

V. Urbanisation

According to 1971 Census 16.24 per cent of the total population of the State are living in urban areas. In the 1971 Census all places which have a minimum of 5,000 pepulation of which about 75 per cent of the male working population is non-agricultural and having a density of population above 400 per sq. km. are classified as urban areas.

As per 1971 Census there are 88 towns (including non-municipal towns) in Kerala. These towns include 3 corporations, 29 municipalities and one township. The three corporations are Trivandrum, Cochin and Calicut.

The districtwise break up of population and the percentage of urban population in the State are given in Table 5.1.

Table 5.1

DISTRICT-WISE DISTRIBUTION OF RURAL AND URBAN POPULATION 1971

		19/1			
SI.		Popul	ation (in la	khs)	Percentage
No.	District	Total	Rurat	Urban	of urban population
- (1)	(2)	(3)	(4)	(5)	(6)
1.	Trivandrum	21.99	16-27	5-72	26.00
2.	Quilon	24-13	22-23	1.90	7.87
3.	Alleppey	21-26	17-66	3.60	16-92
4.	Kottayam	15.39	13-30	2-09	13.56
5.	Idikki	7-65	7.40	0-25	3.30
6.	Ernakulam	21-64	15-28	6.36	29-39
7.	Trichur	21-29	18-79	2.50	11-74
8.	Palghat	16.85	14:71	2-14	12.70
9.	Malappuram	18-56	17-31	1.25	6.73
10.	Kozhikode	21.06	15:45	5-61	26.66
11.	Cannanore	23-65	20-40	3.25	13.74
	STATE	213-47	178-80	34-67	16-24
		The second second			

Ernakulam District has the highest percentage (29.39 per cent) of urban population in 1971 whereas in 1961 Trivandrum District had the highest percentage of urban population. Trivandrum, Alleppey, Ernakulam and Kozhikode Districts have higher percentage of urban population than the State. Idikki District has the lowest percentage of urban population during 1971.

Population of municipalities and corporations during 1961 and 1971 is presented in Table 5.2.

Table 5-2

POPULATION OF MUNICIPALITIES AND CORPORATIONS
DURING 1961 AND 1971

SI.	Name of municipalities]	Popul	ation
No	. Corporations Townships	1961	1971
(1)	(2)	(3)	(4)
1.	Trivandrum (C)	239,815	409,627
2.	Cochin (C)	N. F.	439,056
3.	Calicut (C)	N. F.	333,976
4.	Neyyattinkara	20,268	23.9 3
5.	Attingal	22,051	27,052
6.	Qui'on	91,018	124,203
7.	Punalur	N. F.	38,188
8.	Kayamkulam	44,571	54,102
9.	Mavelikara	18,974	25,648
10.	Thiruvalla	24,242	26,683
11.	Alleppey	138,834	100,166
12.	Sherthalai	31,155	36,752
13-	Changanacherry	42,376	48,545
14.	Kottayam	52,685	59,714
15.	Palai	15,457	20,273
16.	Vaikom	17,418	20 014
17.	Muvattupuzha	22,900	22,137
18.	Perumbayoor	16,147	20,888
19.	Parur	20,852	24,398
20.	Alwaye	20,863	24,067
21.	frinjalakuda	22,335	25,405
22.	Charakudy	N. F.	37,562
23.	Trichur	73,038	76,241
24.	Kunnamkulam	16,268	18,367
25.	Palghat	77,620	95,788
26.	Chittur-Thathamangalam	26,457	28,510
27-	Tirur	N. F.	32,272
28.	Malappuram	N. F.	32,002
	Badagara	43,908	53,938
	Cannanore	46,101	55,162
	Tellicherry	44,763	€8,759
	Kasaragode	N. F.	34,484
33.	Guruvayur (T)	N. F.	15,863
	and the same of th		A CANADA STATE OF THE PARTY OF

(N.F. Not Formed)

VI. Climate and rainfall

The State has a fairly salubrious climate. In the highland region of the State there is bracing cold climate for most part of the year whereas the other regions enjoy a temperate climate. The temperature varies from 69°F to 99°F. The most important rainy season in the State is during the south west monsoon commencing from June and ending in September. The other rainy season is the north east monsoon which generally lasts from October to November. The average annual rainfall in the State is 2,615 mm. In the rainy season, heavy floods occur causing substantial damages to crops grown on either side of the river basins. Usually July is the wettest month and January is the driest month.

The percentage of humidity is very high in the coastal region and it varies from 95 per cent in July—August to 60 per cent in January. There is progressive decline in humidity and temperature from the coastal belts to the western ghats.

VII. Agriculture

A major portion of the population of Kerala depends on agriculture for their livelihood. More than half of the State income of Kerala is from agriculture and allied sectors.

Agriculture is dependent on soil conditions and climate. Hetrogenity in cultivation and diversity of crops are important features of agriculture in the State. Plantation crops like tea, coffee and rubber are dominant in the highland, while the predominant crops in the lowland are paddy and coconut. The important crops in the midland region are pepper, coconut, arecanut, tapioca, ginger and rubber.

(a) Soil

The soil of Kerala can be divided into seven categories, viz., (i) the sandy soil of the coastal belt which is suited for paddy and coconut cultivation, (ii) the laterite soil of the midland region which is suited for the cultivation of pepper, ginger and tapioca, (iii) the hilly and forest soil seen along the eastern side which are suitable for the cultivation of plantation crops like tea, rubber, coffee and cardamom, (iv) the red soil which exists in some parts of Trivandrum District which is suitable for the cultivation of tuber crops, rubber, etc., (v) black soil which occurs as a patch on the eastern side of Palghat District, (vi) the kari or peat soil in Alleppey District which is suited for the cultivation of paddy and (vii) the alluvial soil in the eastern and southern parts of Vempanad lake in Ernakulam, Kottayam and Alleppey Districts.

(b) Land utilisation

According to the Surveyor General of India, the area of Kerala is 38,864 sq. km. But as per village papers the geographical area of the State is only 38,855 sq. km. This shows that only 99.28 per cent of the area have been accounted in the village records.

The land use particulars of Kerala in the different districts of the State from 1972-73 to 1975-76 are furnished in Table 7.1 to 7.4.

Forest: The percentage of area under forest in the State during 1975-76 is 27.83. It can be seen that 23 per cent of the area of Trivandrum District, 50 per cent area of Quilon District, 51 per cent area of Idikki District, 35 per cent area of Trichur District, 28 per cent area of Malappuram District and

24 per cent area in Kozhikode District are under forest during 1975-76. Idikki District has the largest area under forest and Alleppey District the smallest area.

Land put to non-agricultural use: 6.67 per cent of the total geographical area comes under this category during 1975-76. The percentage of area under this category is largest in Alleppey District and lowest in Idikki District.

Barren and uncultivable land: The land classified under this category during 1975-76 is 2.02 per cent of the total area of the State. The percentage of area under the items is maximum in Cannanore District and minimum in Alleppey District.

Permanent pastures and other grazing land: 0 51 per cent of the total area of the State is classified under this category. The percentage of area under this item is maximum in Cannanore District and minimum in Quilon District.

Land under miscellaneous tree crops and groves not included in net area sown: 2.17 per cent of the total area of the State comes under this category during 1975-76. Under this item Canaanore District showed the maximum percentage and Quilon District the minimum.

Cultivable waste, fallow land other than current fallow, and current fallow: The area classified under the category of waste land is 2.92 per cent of the total area of the State in 1975-76. Fallow land formed 0.59 per cent of the total area and current fallow 0.9 per cent during 1975-76.

Net area sown and area sown more than once: The net area sown during 1975-76 works out to 56.35 per cent of the total area of the State. Kottayam District has the maximum percentage of net area sown to the total area in the District and Idikki District has the least percentage. 20.39 per cent of the area was under cultivation more than once during 1975-76. The percentage of area sown more than once to the total area in the district was maximum in Allepp-y District (48.10) followed by Trivandrum District (41.89) and Trichur District (39.69) during 1975-76.

Table 7.1
CLASSIFICATION OF AREA 1972-73
(Area in Hectares)

SI-		T	rivandrum	Qui	lon	Alleppe	,	Kottay	ım
No	Category	Area	Percentage	Area (5)	Percentage (6)	Area (7)	Percentage (8)	Area (9)	Percenage (10)
(1)	(2)	(3)	(4)	The state of the s	44-91	513	0.28	6,398	2.97
1.	Forest	4,3849	20-29	210,651	3.19	12,500	6-69	12,113	5-61
2.	Land put to non-agricultural use	15,845	7.33	14,983	1.56	653	0.35	1,521	0.71
3.	Barren and uncultivable land	574	0.27	7,321	0.28	250	0.13	2,513	1.16
4.	Permanent pastures and other	550	0.25	1,300	0.20	200	0.15	-	
5.	grazing land Land under miscellaneous tree crops	643	0.30	749	0.16	6,150	3.29	4,343	2.01
	not included in net area sown	400	0.20	2,157	0.46	775	0.42	1,658	0.77
6.	Cultivable waste	433	0.33	768	0.16	901	0.48	1,338	0.62
7.	Fallow land other than current fallow	718		100	1 in where the	594	0.32	2,257	1.05
8.	Current fallow	239	0.11	399	0.09	164,454	88.04	183,554	95.10
9.	Net area sown	153,245	70.92	230,723	49-19	186,790	100.00	215,695	100.00
10.	Total geographical area accord-	216,096	100-00	469,051	100-00	100,750	100 00	210,000	
11.	ing to village papers Area sown more than once	95,778	44.32	128,558	27-41	72,549	38-84	86,810	40.25
A C	TOTAL CROPPED AREA	249,023	115-24	359,281	76-60	237,003	126-88	270,364	125-35

SI.			Idikki	Erne	ikulam	Tr	ichur	Palghai	1
No.	Category	Area	Percentage	Area	Percentage	Area	Percentage	Area	Percentage
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	Forest	299,221	59-04	2,512	1.14	132,369	44-25	67,185	15-37
2.	Land put to non-agricultural use	13,704	2.70	20,857	9.43	17,191	5.75	48,787	11-16
3.	Barren and uncultivable land	7,671	1-51	1,489	0.67	2,043	0.68	10,682	2.44
4.	Permanent pastures and other grazing land	1,388	0.27	1,599	0.72	500	0.17	2,810	0 65
5.	Land under miscellaneous tree crops not included in net area sown	1,948	0.38	505	0-23	3,631	1.21	9,363	2.14
6.	Cultivable waste	13,401	2-68	1.805	0-82	1,871	0.63	4,096	0.93
7.	Fallow land other than corrent fallow	308	0.06	2,565	1.16	430	0.14	2,796	0 64
8.	Current fallow	3,490	0.68	3,691	1-67	1,554	0.52	2,277	0-52
9.	Net area sown	165,644	32.68	186,160	84 - 16	139,560	46-65	289,091	66-14
10.	Total geographical area according to village papers	506,775	100.00	221,183	100.00	299,149	100.00	437,087	100-00
11.	Area sown more than once	2,576	0.52	35,471	16-01	104,222	34.84	51,025	11-67
	TOTAL CROPPED AREA	168,220	33-20	221,631	100:20	243,782	81-49	340,116	77.81
				MARKET	-			_	The second second

Table 7-1-(cont.)

SI.		M	alappuram	1	Kozhikode	Ca	nnanore	State	
No.	Category	Area (19)	Percentage (20)	Area (21)	Percentage (22)	Area (23)	Percentage (24)	Area (25)	Percentage (26)
1.	Forest	97,627	26-89	128,607	35.05	65,932	11-44	1,054,864	27.34
2.	Land put to non-agricultural use	13,184	3-63	45,126	12:30	61,436	10.65	275,726	7:15
3.	Barren and uncultivable land	5,081	1.40	10,186	2.76	20,510	3.56	67,731	1.76
4.	Permanent pastures and other grazing land	2,369	0.65	2,521	0-69	12,000	2.03	27,800	0.71
5.	Land under miscellaneous tree crops not included in net area sown	5,359	1.48	3,338	0.91	78,978	13-70	115,007	2.97
6.	Cultivable waste	22,639	6-24	8,359	2.28	16,816	2.52	74,010	1-92
7.	Fallow land other than current fallow	490	0.13	2,925	0.80	7,493	1.30	20,732	0.54
8.	Current fallow	4,057	1-12	2,350	0.64	4,756	0-82	25,664	0.67
9.	Net area sown	212,239	58-46	163,579	44-57	308,740	53.54	2,196,989	56-94
10.	Total geographical area Accord- ing to village papers	363,045	100.00	366,991	100-00	576,661	100.00	3,858,523	100 00
11.	Area sown more than once	45,326	12.49	112,062	30-53	55,112	9-56	789,489	20-16
	TOTAL CROPPED AREA	257,565	70.95	275,641	75-10	363,852	63-10	2,986,478	77-40

Table 7-2
GLASSIFICATION OF AREA 1973-74

					(Area	in Hecti	tres)						
Sl.	No. Category	Triv	andrum	Qui	lon	All	eppey	A	Tottayam	3	Idikki	Ernai	kulam
	577	Area Pe	ercentage	Area P.	ercentage	Area	Percentage	e Area	Percentage	Area	Percentage	Area E	Percentage
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(10)	(11)	(12)	(13)	(14)
1.	Forest	43.849	20.29	210,650	44-91	519	0-2	8 6,398	2.97	299,221		1,312	0.60
2.	Land put to non-agri-	16 000		The same of	o ker			EN THE STATE OF TH	72.77		03 03	1,012	0.00
	cultural use	17,026		227000	3.44	12,199	6.54	12,466	5.78	13,770	2.72	22,349	10.10
3.	Barren and uncultivable	565	0.26	7,085	1:51	731	0.39	1,671	0.77	7,160	1.41	1,577	0.72
4.	Permanent pastures and other grazing land	550	0.25	1,300	0.28	250	0.13	2,513	1-17	1,388	0.27	1,599	0-72
5.	Land under miscellan- eous tree crops not included in net area so	489	0-23	980	0.21	7,993	4 - 28	4,549	(,2:11	1,636	0-32	630	0.29
6.	Cultivable waste	390	0.18	2,015	0.43	826	0.44	1,451	0.67	13,403	2-65		7
7.	Failow land other than			Mult al		49/4/6		1,101	001	15,405	2.03	1,714	0.77
	current fallow	717	0.33	801	0-17	825	0.44	1,178	0.55	267	0.06	2,381	1.08
8.	Current falle w	231	0.12	488	0-11	561	0-30	2,868	1.32	3,711	0.73	5,080	77 75
9.	Net area sown	152,279	70-46	229,590	48-94	162,892	87-28	182,601	and the second	166,214			2.29
10.	Total geographical are according to village papers	276,096	100-00	02.00		186,790		14 31	STENDS:		32.79	184,541	83-43
11.	Area sown more than	2,0,000	100.00	100,001	100.00	100,790	100.00	215,695	100.00	506,775	100-00	221,183	100-00
	once	92,015	42.58	141,817	30-23	77,073	41.26	87,614	40.62	5,028	0.99	40,585	18-35
	TOTAL CROPPED AREA	244,294	113.05	371,407	79-18	239,965	128-47	270,215	125-28	171,242	33.79	225,126	101-78

Table 7-2-(cont.)

		Tric	hur	Palgh	11	Malappu	ram	Kozhi	kode	Cann	anore	Stat	•
SI. A	lo. Category	Area Pe	rcentage	Area pe	rcentage	Area P	ercentage	Area F	ercentage		percentage		rcentage
1.	Forest	(15) 131,934	(16)	(17) 67,185	(18) 15·37	(19) 97,627	(20) 26·89	(21) 128,607	(22) 35·04	(23) 65,932	(24)	(25) 1,053,228	(26) 27·30
2.	l and put to non-agri- cultural use	18,491	6-18	52,527		13,687	V Charles	43,868	11-95	63,266	10-97	285,791	7-41
3.	Barren and uncultivable	2,206	0-74	10,756	2.46	4,709	1.30	9,612	2-62	19,458	3.37	65,530	1.69
4.	Permanent pastures and other grazing land	500	0-17	2,810	0.64	2,369	0.65	2,521	0-69	12,000	2.08	27,800	0.72
5.	Land under miscella cous tree crops not included in net area sown Cultivable waste	3,364 1,934	1-12	2,004 4,108	0·46 0·94	5,034 23,337	1.39	3,576 7,996	0·97 2·18	69,914 16,970	12·12 2·94	100,169 74,149	2:60
7.	Fallow land other than current fallow Current fallow	414 1,744 138,562	0·14 0·58 46·32	3,240 2,108 292,349	0·75 0·48 66·89	545 4,813 2,01924	0-15 1-33 58:09	3,032 2,032 165,647	0-84 0-57 45-14	8,171 4,266 316,681	1·42 0·74 54·92	21,621 27,952 2,202,283	0·56 0·73 57·07
10.	N-t area sown Total geographical area according to village papers Area sown more than once	299,149		437,087	100.00		100·00 13·48	366,991 112,685	100·00 30·71	576,661 33,354	100·00 5·78	3,858,523 797,298	100·00 20·66
	TOTAL CROPPED AREA	245,915	82 · 20	343,179	78-52	259,868	71.58	278,332	75-84	350.038	60-70	2,999,581	77-74

Table 7.3

CLASSIFICATION OF AREA 1974-75

(AREA IN HECTARES)

		Trivandrum		Quil	on	Alleppey		Kottayam		Idikki		Ernakulam	
St. No.	Category	Area	Per- centage	Area	Per- centage	Area	Per- centage	Area	Per- centage (10)	Area (11)	Per- centage (12)	Area (13)	Per- centage (14)
(1)	Forest (2)	(3) 43,860	(4)	(5) 209,074	(6) 44·57	(7) 513	(8)	(9) 5,912	2.74	297,626	58.73	1,312	0.59
2.	Land put to non- agricultural use	17,534	8-11	18,042	3.85	12,450	6.67	13,805	6.40	14,557	2.87	22,638	10.23
3.	Barren and un- cultivable land	498	0.23	6,902	1-47	753	0.40	1,683	0.78	7,128	1.41	1,521	0.69
4.	Permanent pastures and other grazing land	550	0.25	1,300	0.28	250	0.13	2,513	1-17	1,388	0.27	1,599	0.72
5.	Land under mis- cellaneous crops not included in net area sown Cultivable waste	476 340	0·22 0·16	984 1,985	0·21 0·42	6,350 800	3·40 0·43	4,516 1,308	2·09 0·61	1,646 13,556	0·32 2·67	650 1,716	0·29 0·78
7.	Fallow land other than current fallow Current fallow	691 224	0·32 0·10	769 484	0·16 0·10 48·93	760 530 164,384	0·41 0·28 88·00	1,166 1,849 182,943	0.54 0.86 84.82	302 3,711 166,861	0.06 0.73 32.93	2,405 3,644 185,698	1.65 83.96
9.	Net area sown Total geographical	151,923	70-30	229,511	40.33	101,501	00 00			2512004/65	SEASON 1		244 44
	ar a according to village papers	216,096	100-00	469,051	100-00	186,790	100.00	215,695	100.00	506,775	100.00	221,183	100-00
11.	Area sown more than once	94,740	43-84	147,937	31.54	80,329	43.00	88,962	41.24	3,055	0.60	40,840	18-46-
	TOTAL CROPPED AREA	246,663	114-14	377,448	80-47	244,713	131-00	271,905	126.06	169,916	33.53	226,538	102-42

Table 7.3-(cont.)

			Trichur		Palghat		Malappuram		Kozhikode		more	State	l.
SI. No.	Category	Area (15) 131,634	Per- centage (16) 44.00	Area (17) 67,185	Per. centage (18) 15:37	Area (19) 97,627	Per- centage (20) 26·89	Area (21) 128,607	Per- centage (22) 35·04	Area (23) 63,932	Per- centage (24) 11.09	Area (25) 1.047,282	Per- centage (26) 27·14
2.	Land put to non- agricultural use	18,748	6-27	52,897	12-10	14,389	3-96	44,670	12-17	65,383	11-34	295,113	7-65
3.	Barren and uncultiv- able land		0.72	10,575	2-42	4,602	1.27	9,774	2.66	19,295	3-35	64,837	1.68
4.	Permanent pastures and other grazing land Land under mis- cellaneous crops	500	0-17	2,810	0.64	2,369	0.65	2,521	0.69	12,000	2.08	27,800	0.72
6.	not included in net area so vn Cul ivable waste	3,326 1,493	1·11 0·50	1,432 4,017	0·33 0·92	5,082 23,323	1-40 6-42	3,022 7,126	0·82 1·94	70,203 16,286	12·17 2·82	97,687 71,950	2·53 1·86
7.	Fallow land other than current fallow Current fallow Net area sown	414 1,546 139,332	0·14 0·52 46·58	3,053 2,082 293,036	0·70 0·48 67·04	523 4,677 210,453	0·14 1·29 57·97	2,935 1,910 166,426	0·80 0·52 45·35	7,790 3,888 317,884	1·35 0·67 55·12	20,808 24,545 2,208,451	0·54 0·64 57·24
10.	Total geographical area according to village papers	299,149	100-00	437,087	100.00	363,045	100.00	366,991	100-00	576,661	100-00	3,858,523	100-00
11.	Area sown more than once	107,025	35-78	54,693	12:51	52,025	14:33	113,390	30-90	36,628	6.35	819,624	21.24
	TOTAL CROPPED	246,357	82.35	347,729	79.56	262,478	72-30	279,816	76.25	354,512	61.47	3,028,075	78.48

Table 7-4 GLASSIFICATION OF AREA—1975-76*

(Area in hectares)

SI.	0	Category Tripandrum		- 0					ottayam	Idikki Ernakulam			
No.	Category	Triva	ndrum	W	uilon	A	lleppey	A	ottayam	- 10	inas	Erno	VERTONIA
hor		Area	Percent-	Area	Percent-	Area	Percent-	Area	Percent-	Area	Percent-	Area	Percent-
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1.	Forest	49,861	22.81	236,018	49.77	518	0.29	8,141	3-71	260,993	50-67	8,123	3.45
2.	Land put to non- agricultural use	17,293	7.91	22,229	4.69	26,965	14.79	17,696	8-06	13,517	2.63	30,460	12.94
3.	Barren and uncul- tivable land	1,509	0.69	3,939	0.83	638	0.35	2,293	1.05	17,005	3.30	2,020	0.86
4.	Permanent pastures and other grazing land	86	0.01	100	0.02	76	0 01	531	0.24	9,861	1.92	968	0-41
5.	Land under miscel- laneous tree crops and groves not included in net area sown	578	0.26	752	.0.16	457	0-25	1,720	0.78	19,886	3-86	4,005	1.70
6.	Gultivable waste	1,203	0.55	1,557	0.33	2,311	1.27	2,524	1-15	33,184	6.44	4,740	2 02
7.	Fallow lands other than current fallow	1,288	0.59	787	0.16	735	0.40	1,300	0+59	2,340	0-45	2,399	1.02
8.	Current fallow	1,304	0.60	1,313	0.28	1,475	0.81	1,421	0-65	2,074	0.40	4,815	2.05
9.	Net area sown	145,473	66-55	207,565	43.76	149,095	81-80	183,924	83-77	156,188	30-33	177,789	75 - 55
10.	Total geographical area according to village papers	218,600	100-00	474,290	100.00	182,270	100 00	219,550	100-00	515,048	100:00	235,319	100.00
11.	Area sown more than once	91,575	41-89	137,784	29-05	87,671	48-10	63,455	28-90	1,0892	2.11	61,534	26-15
	TOTAL CROPPED AREA	237,048	108-44	345,349	72-81	236,766	129-90	247,379	112-67	167,080	32-44	239,323	101-76

[.] Estimates from Timely Reporting Survey. The figures for previous years are estimates from Land Utilisation Survey.

Table 7-4-(cont.)

	St. Category	T	richur	Pa	lghat	Mal	арритат	Koz	hikode	Can	nanore	St	ate
240.		Area (15)	Percent- age (16)	Area (17)	Percent- age (18)	Area (19)	Percent- age (20)	Area (21)	Percent- age (22)	Area (23)	Percent- age (24)	Area (25)	Percent- age (26)
1.	Forest	103,619	34-61	136,257	31-04	103,417	28-47	90,876	24-48	83,656	14-74	1,081,509	27.83
2.	Land put to non- agricultural use	18,029	6-02	32,147	7-32	13,925	3-83	20,620	5.56	46,349	8-17	259,230	6.67
3.	Barren and uncul-	3,957	1.32	12,226	2.79	6,756	1.86	5,110	1.38	23,041	4.06	78,494	2.02
4.	Permanent pastures and other graz- ing land	668	0.22	1,709	0-39	1,182	0.33	569	0-15	4,165	0.73	19,915	0.51
5.	Land under miscel- laneous tree crops and groves not included in net area sown		0.80	8,498	1.94	3,788	1.04	10,143	2-73	32,022	5.64	84,250	2-17
6.	Cultivable waste	4,027	1-35	18,374	4-19	12,943	3.56	8,421	2.27	24,125	4.25	113,414	2.92
7.	Fallow lands other than current fallow	1,593	0+53	3,924	0-89	2,317	0.64	883	0.26	5,288	0.93	22,954	0-59
8.	Current fallow	3,583	1-20	6,342	1-44	5,445	1.50	1,615	0.44	7,172	1-26	36,559	0-94
9.	Net area sown	161,513	53:95	219,503	50.00	213,457	58-77	232,813	62.73	341,852	60.22	2,189,172	56-35
10.	Total geographical area according to village papers	299,390	100.00	438,980	100-00	363,230	100-00	371,150	100-00	567,670	100-00	3,885,497	100.00
11.	Area sown more than once	85,573	39-69	102,301	23.30	63,795	17-42	46,677	12.57	41,350	7-28	792,107	20:39
	TOTAL GROPPED AREA	247,036	93.64	321,804	73.30	276,752	76-19	279,490	75.30	383,202	67.50	2,981,279	76 - 73

(c) Irrigation

There are fortyfour rivers in Kerala.

Almost all of them originate from the western ghats and flow through the midlands and low-lands into the sea. Out of the 44 rivers, 41 are west flowing rivers and 3 are east flowing.

These rivers are the main sources of irrigation in the State. The annual run off of all the west flowing rivers is estimated to be 25,60,800 mc. feet; while that of the other 3 east flowing rivers till they cross Kerala Border is estimated to be 1,96,000 mc. feet.

Irrigation facilities in the State are inadequate due to the following reasons:

(i) Non-uniformity of rainfall causes hardship to agriculturists. Draining out excess water is important in many parts of the State; (ii) either or both of the monsoons may fail in some years; and (iii) Most of the rivers in the State are subjected to tidal action in their lower reaches between December and May and this results in the intrusion of saline water into the paddy fields in the lowland areas.

The total cropped area under important crops during 1975-76 was 29-81 lakh hectares as against 27-57 lakh hectares in 1967-68. Of this, the total cropped area under paddy during 1975-76 was 8:76 lakh paddy and sugarcane require irrigation facilities by controlled flow of water or lift irriga-tion or dewatering. Table 7.5 gives the net tion or dewatering. area irrigated in the various years.

The list of major and medium irrigation schemes completed and in progress till the end of 1975-76 are given in Table 7.6.

Table 7.5

Net area irrigated ('000 Hects.)
327
393
439
446
457
465
228

(Net area sown 2,189,172 Hect.)

Table 7.6

		Table 7-6	COURSE (THE THE END OF 197	5–76)
	MAIOR AND MEDIUM II	Table 7 6 RRIGATION SCHEMES COMPLETED AND IN PR	OGRESS (TILL TILL	District benefitted
200		Name of river tributory		(5)
Sl. No.	Name of project	(3)	(4)	Trivandrum
(1)	(2)	Neyyar River	Neyyar	Trichur and Emakulam
1.	Neryyar	Chalakkudy River	Thumburam Kuzhi	Trichur
2.	Chalakkudy	Manali tributory of	Peechi	MANUFACTURE OF THE PARTY OF THE
3.	Pecchi	Karuvannur River	Vazhani	do.
4.	Vazhani	Wadakancherry tributory of Keechery River	Chcerakuzhi	Trichur
5.	Cheerakuzhi	Cheerakuzhi tributory of Bharathapuzha	Pothundy	Plaghat
6.	Pothundy	Ayalur puzha tributory of Bharathapuzha	Mangalam	do.
7.	Mangalam	Mangalam puzha tributory of Bharathapuzha	Mecnkara	do.
8.	Gayathri I	Meenkara puzha tributory of Bharathapuzha	Chulliyar	do.
9.	Gayathri II	Chulliyar puzha tributory of Bharathapuzha	Walayar	do.
10.	Walnyar	Walayar puzha tributory of Bharathapuza	Malampuzha	Palghat and Trichur
11.	Malampuzha	Mslampuzha tributory of Bharathapuza	Maniar	Alleppey and Quilon
12.	Pumba	Kakad tributory of Pumba River	Planchode	Ernakulam
	Periyarvalley	Periyar River	Moolathara (Regulator)	Palghat
13.	Chitturpuzha	Chicturpuzha tributory of	Thembara Madak	
14.	Cinitia pazza	Bharathapuzha	Peruvannamuzhi (Dam)	Kozhikode
15.	Kuttiadi	Kuttiadi River	Parappar (Dam)	Quilon
16.	Kallada	Kallada River	Kanhirapuzha (Dam)	Palghat
17.	Kanhirapuzha	Kanhirapuzha tributory of Bharathapuzha		
1/1		Valappathanam River	Kuilur (Dam)	Cannanore
18.	Pazhassi	Meenachil River	Cherippad	Kottayam Ernakulam, Kottayan
19.	Meenachil	Moovattupuza River	Melamkaram (Dam)	and Idikki
20.	Moovattupuza		- 11 1 (0)	Ernakulam
21.	Edamalayar	Periyar River (under K.S.E.B.)	Enakkal (Dam)	Trichur
22.	Chimoni	Chimoni tributory of Karuvannur River	Chimoni (Dam)	Palghat
23.	Attappady	Siruvani tributory of Bahavani River	Chittur (Dam)	Kozhikode
24.	Karapuzha	Karapuzha tributory of Kaveri River	Vazhavatta (Dam)	or subber
			1 400	COTTER TUDDO

In addition to the above, there are minor irrigation and lift irrigation schemes spread all over the State

under production (d) Area and principal crops

The important crops of Kerala are paddy, coconut, tapioca, arecanut, pepper, ginger,

cardamom, tea, coffee, rubber, cashew, etc.

The area and production under principal crops for the years 1967-68, 1972-73 to 1975-76 is given in Table 7-7 and 7.8.

Table 7-7

AREA AND PRODUCTION OF PRINCIPAL CROPS—STATE

		196	57-68	1972	-73	1973	3-74	1974	-75	1975-	-76
Si. No.		Area (Hectares)	Production (Tonnes)	Area (Hectares)	Production (Tonnes)	Area (Hectores)	Production (Tonnes)	Area (Hectares)	Production (Townes)	Area (Hectares)	Production (Tonnes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. 2. 3. 4. 5. 6. 7. 8. 9.	Rice Pulses Sugar cane (gur) Pepper Ginger Turmeric Cardamom Betel nuts Banana and other	809,544 42,632 8,033 99,702 11,795 4,443 47,026 76,014 49,418	1,123,897 13,173 49,973 21,064 11,117 3,725 1,616 11,473* 974,282	873,704 37,557 16,275 116,343 11,802 4,134 47,492	1,376,367 12,921 40,0 9 25,150 23,487 4,424 1,250 13,136 357,883	874,675 37,417 9,530 118,245 12,044 4,320 47,492 90,701 46,722	1,257,069 12,620 51,345 27,745 26,683 4,546 1,502 13,459 353,620	881,466 37,262 9,506 118,408 12,201 4,263 46,630 93,012 47,143	1,333,931 12,674 53,912 27,728 26,010 +,480 2,050 13,777 356,583	876,022 37,485 7,596 103,251 11,671 2,477 54,004 76,618 52,280	1,331,191 14,169 41,831 24,580 28,840 2,008 2,050 11,387 •
10. 11. 12.	plantains Cashewnut Tapioca Other food crops	94,790 297,646 221,517	106,578 4,198,357	101,493	113,876 5,692,355	103,162 305,446 208,650	115,747 5,659,523	104,885	117,679 5,625,116	109,05 7 326,865 246,879	119,888 5,390,217
	TOAL FOOD CROPS	1,762,790	1	,849,896		1,859,404	1	,885,876		,909,205	10.51

[•] Estimates from timely reporting survey. Figures for earlier years are estimates of land utilisation survey

				Children .	Table 7.7	7 (cont-)					
(1) (2) II. Nan-food crops	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1. 2. 3. 4. 5. 6. 7. 8. 9.	Groundnut	13,714 11,163 638,722 6,625 698 39,282 26,468 162,932 55,970	24,675 2,629 3,593* 6,461† 902 43,189 11,458 59,978		16,461 3,420 3,921 1,518 1,459 43,677 14,916 91,948	11,782	18,043 3,489 3,703 8,639† 1,386 48,358 15,459 118,016	11,782 748,174	19,471 3,264 3,719 1,714 1,327 48,899 15,784 121,558	26,679 16,785 692,945 7,562 607 37,693 41,778 206,686 41,334	35,268 4,271 3,439 1,230 45,801 17,528 126,265
	TOTAL NON-FOOD CROPS	994,649		1,136,582		1,140,177		1,142,199		1,072,074	
	TOTAL CROPPED AREA	2,757,439	1000	2,986,478	iller in	2,999,581	**	3,028,075	1 05	2,981,279	-

^{*—}Million nuts †—Bales of 180 kg. each

Table 7-8

REA AND PRODUCTION OF PRINCIPAL CROPS—DISTRICT-WISE—1975-76

	F	epper		Coffee		Tea	0	oconut
District	Area (Hect.)	Production (Tonnes)	Area (Hect.)	Production (Tonnes)	Area (Hect.)	Production (Tonnes)	Area (Hect.)	Production (Million nuts)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Trivandrum	5,856	1,248	130		35	27	74,074	428
Ouilon	8,750	2,975	428	87 54 39	2,690	1,372	98,073	485
Alleppey	5,231	737	91	39	0.0		72,824	404
Kottayam	12,938	3,933	1,848	800	2,307	517	58,168	288
Idikki	10,186	2,220	3,849	1,678	24,006	31,008	11,472	61
Ernakulam	6,499	1,092	1,367	623	45	53	50,726	269
Frichur	1,525	245	10	4			50,699	299
Palghat	851	146	1,727	1,025	146	259	16,994	56
Malappuram	5,989	1.084	560	242	567	486	70,269	311
Kozhikode	17,694	4,157	23,640	9,633	6,917	11,281	97,448	523
Cannanore	32,732	6,743	8,128	3,343	985	798	92,198	315
STATE	108,251	24,580	41,778	17,528	37,698	45,801	692,945	3,439

Tab	le	7-	8-	cont.)
		MICO.		COURSE.	•

	T	apioca		Rubber	1	Rice
District	Area (Hect.)	Production (Tonnes)	Area (Hect.)	Production (Tonnes)	Area (liect.)	Production (Tonnes)
	(10)	(11)	(12)	(13)	(14)	(15)
Trivandrum Quilon	72,035 88,538	1,029,296 1,595,363	6,307 33,995	4,220 23,966	37,447 53,053	59,060 81,702
Alleppey	24,568	412,720	4,029	2,362	96,316	140,881
Kottayam	35,429	636,959	52,600	32,452 10,660	44,159 15.873	76,047 26,143
Idikki Ernakulam	9,955 17,091	215,424 323,702	16,369 23,096	13,556	99,017	132,534
Trichur	12,178	164,884	7,785	6,111	126,426	162,189
Palghat	7,965 28,372	112,298 338,181	7,910 15,220	3,314 8,326	174,278 88,871	349,667 125,129
Malappuram Kozhikode	9,235	167,970	17,250	10,064	50,116	66,223
Cannanore	21,499	393,420	22,125	11,234	84,466	111,611
STATE	326,865	5,390,217	206,686	126,265	876,022	1,331,191

The total cropped area under food crops increased from 17.63 lakh hectares in 1967-68 to 19.09 lakh hectares in 1975-76. Similarly the total cropped area during 1975-76 was 29.81 lakh hectares as against 27.57 lakh hectares in 1967-68.

The production of rice during 1975-76 was 13.31 lakh tonnes as against 11.24 lakh tonnes in 1967-68. In case of tapioca, the production during 1975-76 was 53.90 lakh tonnes as against 41.98 lakh tonnes in 1967-68. In respect of rubber the production was 1.26 lakh tonnes in 1975-76 as against 0.60 lakh

tonnes in 1967-68. As far as pepper was concerned the production amounted to 0.25 lakh tonnes in 1975-76, as against 0.21 lakh tonnes in 1967-68. In case of coffee, the production come to 0.18 lakh tonnes in 1975-76 as against 0.11 lakh tonnes in 1967-68. The production of tea was 0.46 lakh tonnes in 1975-76. In case of coconut the production during 1975-76 was 3,439 million nuts while it was 3,593 million nuts in 1967-68. The district-wise distribution (in percentage) of important crops in the State during the years 1972-73 to 1975-76 is furnished in Table 7.9.

Table 7.9

PERCENTAGE OF AREA UNDER RICE, TAPIOCA, PEPPER, COCONUT, TEA, COFFEE AND RUBBER

		R	ce			Taj	pioca			P	pper	
(1) Trivandrum Quilon Alleppey Kottayam Idikki Ernakulam Trichur Palghat Malappuram Kozhikode Cannanore	1972-73 (2) 4.52 5.86 10.43 5.09 1.56 9.86 12.64 20.86 10.58 7.39 11.21	1973-74 (3) 4.55 5.85 10.52 5.07 1.53 9.90 12.57 20.94 10.54 7.32 11.21	1974-75 (4) 4.53 5.87 10.94 5.03 1.51 9.97 12.36 21.00 10.44 7.24 11.11	1975-76 (5) 4.27 6.06 11.00 5.04 1.81 11.30 14.43 19.89 10.15 6.41 9.64	1972-73 (6) 24.94 31.08 6.28 12.48 1.01 3.92 2.74 4.02 7.53 3.59 2.41	(7) 24.84 30.92 6.24 12.54 1.01 3.93 2.72 4.19 7.49 3.60 2.52	1974-75 (8) 24.74 31.36 6.02 12.62 0.98 3.83 2.71 4.21 7.44 3.50 2.59	(9) 22.04 27.09 7 52 10.84 3.04 5.23 3.72 2.44 8.68 2.82 6.58	(10) 8.80 4.97 1.29 13.30 3.70 4.16 0.64 1.40 2.79 15.49 43.46	(11) 3.39 12.98 3.61 14.33 5.54 8.27 3.55 0.50 5.05 16.65 26.13	1974-75 (12) 3 42 12.97 3.71 14.16 5.04 8.26 3.65 0.53 5.04 17.13 26.09	1975-76- (13) 5.41 8.08 4.83 11.95 9.41 6.00 1.41 0.79 5.53 16.35 30.24

Table 7.9-(cont.)

		Coc	onut			T	ea .	W. S.
District	1972-73 (14)	1973-74	1974-75 (16)	1975-76	1972-73 (18)	1973-74 (19)	1974–75 (20)	1975-76 (21)
Frivandrum Duilon	10.22 14.33	10.33 14.34	10.33 14.36	10.69 14.15	2.78 6.17	2.83 6.22	2.84 5.93	0.09 7.14
Alleppey Kottayam (dikki	10.72 9.38 3.09	10.73 8.92 3.09	10.69 8.89 3.08	10.51 8.39 1.66	0.74 73.45	0.73 72.54 0.50	0.73 72.76 0.50	6.12 63.68 0.12
Ernakulam Frichur Palghat	7.07 7.63 3.14	7.07 7.63 3.31	7.06 7.66 3.32	7.32 7.32 2.45	1.14 1.65 0.45	1.16 1.69 0.46	1.16 1.68 0.46	0 39
Malappuram Cozhikode Cannanore	9.31 12.87 12.24	9.32 13.01 12.25	9.32 12.96 12.33	10.14 14.06 13.31	10.09	10.26 3.61	10.30	18.35
STATE	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 7.9-(cont.)

		C	offee			Ru	bber	THE REAL PROPERTY.
District	1972-73	1973-74 (23)	1974-75	1975-76 (25)	1972-73 (26)	1973-74 (27)	1974-75 (28)	1975-76 (29)
Trivandrum Ouilon	0.13 0.77	0.12 0.77	0.12 0.75	0.31 1.03 0.22	3.90 16.44 1.94	3.83 16.22 1.90	3.82 16.12 1.89	3.05 16.45 1.95
Alleppey Kottayam Idikki	4.04 2.40 0.41	2.37 4.94 0.19	2.31 4.36 0.19	4.42 9.21 3.27	24.79 7.83 10.87	26.21 7.59 9.95	26.28 7.59 9.92	25.45 7.92 11.17
Ernakulam Trichur Palghat	11.97	12.72	12.46	0.02 4.13 1.34	4.99 3.87 8.98	4.47 3.86 8.42	4.42 3.99 8.37 8.10	3.77 3.83 7.36 8.35
Malappuram Kozhikode Cannanore	65.97 14.31	64.62 15.17	63.91 15.90	56.59 19.46	8.13	8.04 9.51	9.50	10.70
STATE	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Palghat District has the maximum percentage of area under rice (19.89 per cent) followed by Trichur (14.43 per cent) and Alleppey (11.00 per cent) Districts and the minimum percentage is in Idikki District (1.81 per cent) during 1975-76. Quilon District has the highest percentage of area under tapioca (27.09 per cent) followed by Trivandrum District (22.04 per cent) and Palghat District has the largest percentage (2.44 per cent) of area during 1975-76. The percentage of area under pepper is in Cannanore District (30.24 per cent) followed by Kozhikode District (16.35 per cent) and the least percentage is in Palghat District (0.79 per cent) during 1975-76.

Coconut is the most important commercial crop of the State. The maximum area under

coconut cultivation is in Quilon District (14:15 per cent) followed by Kozhikode (14:06 per cent) and Cannanore District (13:31 per cent) and least in Idikki District (1:66 per cent), during 1975-76.

About 64 per cent of the area under tea is in Idikki District. Coffee is mainly cultivated in Kozhikode District. 57 per cent of the total area under coffee is in Kozhikode District. Rubber is being cultivated in all the districts of the State. The area under rubber is maximum in Kottayam District followed by Quilon District (16.45 per cent) and minimum in Alleppey District (1.87 per cent) in 1975-76.

The average yield per hectare of important crops in Kerala is given in Table 7.10.

Table 7-10

AVERAGE YIELD PER HECTARE OF IMPORTANT CROPS IN KERALA 1972–73 to 1975–76

			Averag	re Yield	371.13
SI. No. Crops	Unit	1972-73	1973-74	1974-75	1975-76
1. Rice 2. Coconut 3. Tapioca 4. Arccanut 5. Pepper 6. Tea 7. Cashewnut 8. Rubber 9. Coffee 10. Ginger	Kg./Hect. Nuts/Hect. Kg./Hect. Nuts/Hect. Kg./Hect.	1,575 5,260 18,674 1,48,207 216 1,138 1,122 470 430 1,990 26	1,436 4,972 18,468 1,48,389 213 1,283 1,122 591 432 2,215 32	1,513 4,971 17,696 1,48,072 230 1,301 1,122 6C1 431 2,134	1,520 4,963 16,491 1,48,620 227 1,148 1,122 623 345 2,471

In the case of rice, coconut, tapioca and coffee there is decline in the average yield per hectare in 1975-76 over 1972-73.

(e) Agricultural Research

The Kerala Agricultural University was established in 1971 under the Kerala Agricultural University Act. The headquarters of the University is located at Mannuthy. There are two campuses for the University. The main campus is at Mannuthy in Trichur District while the second is at Vellayani in Trivandrum District. There are three colleges attached to the University. They are (i) College of Veterinary and Animal Science, Mannuthy; (ii) College of Agriculture, Vellayani and (iii) College of Horticulture, Mannuthy.

Learning and promotion of research in agriculture and allied subjects is one of the main objectives of this University. Research on agriculture and allied sciences is carried out in the Research Stations and the different departments of the colleges under the University and is aimed at aiding the development of agriculture and benefiting the agricultural population in the State.

The department of agriculture is another body which takes interest in agricultural research and is concerned with evolving improved varieties of seeds, controlling pests and diseases and studying effects of various kinds of manures on different types of soils.

In Kerala there are 32 State Seed Farms and one Agriculture Farm attached to the Agricultural College and Research Institute, Vellayani. In addition there are 35 Agricultural Research Stations in the various districts of Kerala.

(f) Livestock, poultry and fisheries

The development of livestock is of vital importance in the economic development of the rural areas and the health and happiness of the human population as a whole. The dairy potentital of cattle in Kerala remains to be exploited in full. The percapita availability of milk in the State is very low when compared to the other parts of the country. In order to achieve self-sufficiency in milk at a per capita requirement of 280 gm. of milk per day there is need to make six fold increase in the productivity of cattle. This can be achieved only by a programme of mixed breeding with selected exotic dairy type breeds of cattle.

According to 1972 Livestock Census, the total number of livestock in the State was 49.36 lakhs (as against 46.41 lakhs in 1966). Of this 45.39 lakhs was in the rural area and the rest (3.97 lakhs) in the urban area. Among the total number of livestock in 1972, as many as 33.28 lakhs were bovines (cattle and buffalloes). There were 30.81 lakhs bovines in the rural area alone during 1972.

The bovine population during 1972 was 14.78 lakhs as against 12.01 lakhs in 1966. Table 7.11 gives the livestock population of Kerala according to the 1972 census.

The total number of poultry in the State during 1972 was 122-07 lakhs as against 99-09 lakhs in 1966 and 91-06 lakhs in 1961. During 1972 50-42 per cent of the total number of poultry was hens and 33-60 per cent was chicken. Cocks formed about 13-01 per cent. Only 2-96 per cent of the total poultry population was ducks. The poultry population of Kerala in 1972 is given in Table 7-12.

The State has a coastal line of over 500 kms. The fisheries sector is supporting about two per cent of the total population of the State. Kerala produces over 35 per cent of the sea fish production in the country. The State income from fisheries during 1975–76 stood at Rs. 73.69 crores as against Rs. 33.02 crores in 1972–73. 58 per cent of the marine products export earnings of the country is from Kerala.

The important shoaling areas in the State are around Trivandrum, Quilon, Alleppey, Cochin, Ponnani and Kozhikode. The hishermen of the South Kerala use catamaran and that of the northern side use small dug out canoes operated with oars and sails. Different types of nets, boat seines, shore seines, large drift nets, gill nets, cast nets, etc., are used for fishing.

Table 7-11

DISTRICT-WISE LIVESTOCK POPULATION IN KERALA, 1972

	C	ittle	Buff	aloes	Goals	and sheep
Name of District Trivandrum Quilon Alleppey Kottayam Idikki Ernakulam Trichur Palghat Malappuram Kozhikode	Male 34,368 88,709 53,356 54,440 34,714 91,691 77,410 100,033 68,919 64,631 112,408	Female 132,225 292,908 282,634 214,957 101,417 172,733 145,271 179,945 110,047 183,724 259,730	Male 17,185 12,021 6,804 2,565 3,480 12,162 35,590 106,339 38,434 13,769 20,377	Female 27,323 16,843 7,088 5,784 8,730 10,644 28,439 38,566 24,736 13,247 21,621	Male 29,152 37,202 18,279 29,999 16,133 37,306 31,664 36,792 29,584 30,330 28,880	Female 120,453 142,764 82,467 117,646 45,313 125,759 111,824 104,007 107,643 107,276 85,904

Table 7-12

POULTRY POPULATION (DISTRICT-WISE) 1972 CENSUS

Kottayam 105,872 569,156 352,265 161,617 Idikki 66,900 202,437 191,617 Idikki 179,398 665,840 510,442 Eraakulam 192,632 617,384 420,865 Trichur 176,654 385,111 352,267 Palghat 212,926 54,693 435,885 Malappuram 157,842 468,968 401,486 Kozhikode 161,073 461,977 377,322	6,024 48,674 759 2,139 7,647 35,623 2,448 16,250 1,000 6,829 901 3,143 902 2,076 711 1,708	642 8,603 2,758 608 425 1,088 726
---	---	---

The quantity of marine fish landings in the State during 1975 was 4.08 lakh M.T. valued at Rs. 83.70 crores against 3.38 lakh M.T. valued at Rs. 48.92 crores in 1973. The quantity of inland fish landings

during 1975-76 was 0.23 lakh M.T. as against 0.21 lakh M.T. in 1973-74.

The exports of fish products from India and Kerala's contribution in this regard is furnished in Table 14.

Quantity-in Tonnes

Table 7-13

Export of PER PRODUCTS

					Value-Rs. in c	rores
	b	ndia	Kera	la	Kerala contribution to	's percentage India
Year	Quantity	Value	Quantity	Value	Quantity	Value
1966–67 1971–72 1972–73 1973–74 1974–75 1975–76	21,116 35,523 38,903 52,279 45,099 54,463	17·37 44·55 59·72 89·51 68·41 124·53	13,175 21,892 25,797 31,561 25,340 31,683	14·64 33·70 41·97 57·75 39·58 67·62	62·4 61·6 66·3 60·4 56·2 58·2	84·3 75·6 70·3 64·5 57·9 54·3

(g) Agricultural Implements and Machinery

The number of agricultural implements and machinery in various districts of Kerala in 1972 is furnished in Table 7:14

Table 7-14
AGRICULTURAL IMPLEMENTS AND MACHINERY 1972

(1) 20,543 45,056 19,792 8,521 7,511	(2) 1,196 1,695 634 392	(3) 62 251 334 99	(4) 22 72 105 180	(5) 191 327 1,468 709	(6) 106 207 546 255	(7) 50 77 201 128	(8) 1,195 2,401 3,841 4,359
45,056 19,792 8,521	1,695 634 392	251 334 99	72 105 180	327 1,468	207 546	77 201	1,195 2,401 3,841
19,792 8,521	634 392	334 99	105 180	1,468	546	77 201	2,401 3,841
8,521	392	99	180			201	3,841
	100		0.000	709	255		
7,511	110						
	4.137	45	12	153	161	31	1,126
52,510	637	101	116	3,417	3,039		1.740
43,417	2,167	176	116	1,163	100000000000000000000000000000000000000		3,598
02,909	8,203	85	158	3,861	- The State of the	7000	3,012
53,313	365	45	15	1,658	366		685
27,608	259	354	41	906	538	100	1,881
47,6/2	278	149	60	4,796	543	127	1,987
28,802	16,245	1,701	897	18,649	9,983	1,511	25,828
-	13,417 02,909 53,313 27,603 47,6/2	13,417 2,167 02,909 8,203 53,313 365 27,608 259 47,6/2 278	13,417 2,167 176 02,909 8,203 85 53,313 365 45 27,608 259 354 47,622 278 149	13,417 2,167 176 116 02,909 8,203 85 158 53,313 365 45 15 27,608 259 354 41 47,6/2 278 149 60	13,417 2,167 176 116 1,163 02,909 8,203 85 158 3,861 53,313 365 45 15 1,658 27,608 259 354 41 906 47,6/2 278 149 60 4,796	13,417 2,167 176 116 1,163 1,849 92,909 8,203 85 158 3,861 2,373 53,313 365 45 15 1,658 366 27,608 259 354 41 906 538 47,6/2 278 149 60 4,796 543	13,417 2,167 176 116 1,163 1,849 160 102,909 8,203 85 158 3,861 2,373 324 153,313 365 45 15 1,658 366 59 17,608 259 354 41 906 538 113 17,6/2 278 149 60 4,796 543 127

(h) Forests

Forests play an important part in the economic development of the State. It has great influence on industry, agriculture, employment, climate and rural development.

There are two groups of forests, viz., the natural forests and the man made forests. The natural forest comprises 8.99 lakh hectares and the man made forests extend over 1.26 lakh hectares. During 1975–76 the man made forests consists of 32,090 hectares of eucalyptus, 63,824 hectares of teak, 20,021 hectares of soft wood 1,190 hectares of rubber, 2,995 hectares of cashew and 6,423 hectares of other plantations.

The net revenue from forest during 1975-76 was Rs. 21.92 crores in 1975-76 as against 14.57 crores in 1973-74. The Kerala Forest Development Corporation was formed in January 1975 with the objective of intensive development of the forest resources of Kerala.

VIII. Community Development

In Kerala Community Development programme was initiated in October 1952 with three projects only. Since then the coverage was gradually expanded and in 1965-66 there were 144 N.E.S. Blocks. According to 1971 census 83.89 per cent of the total area and 88.05 per cent of the total population of the State is covered by N. E. S. Blocks.

The main activities of the N.E.S. Blocks are (1) distribution of improved seeds, ferti-

lisers and agricultural implements, (2) distribution of improved varieties of livestock and poultry and (3) other activities for the economic and social development of the people in the locality. The programme envisages the uplift of the villagers by helping them to participate in the various developmental activities for their betterment.

IX. Co-operation

Serious attempts to develop the co-operative movement in the State started with the establishment of the Kerala State Co-operative Bank and seven Central Banks during the Second Five Year Plan period. During the Third Plan attempts were made to tone up the co-operative administration in line with the recommendations of the Mehta Committee. During the fourth plan period, the programme of reorganising the primary agricultural credit societies was continued vigorously. During the Fifth Plan attempts were made to strengthen the credit co-operatives by payment of share capital contribution.

X. Industries

There is a tendency for the industries to cluster in areas which are already developed. This tendency is due to the better infrastructure facilities and the availability of technical personnel in these areas. In Kerala too, large scale industrial units show concentration in certain districts of the State depending on the availability of infrastructure facilities, raw materials, etc.

According to 1971 census, the industrial sector of Kerala accommodates 15 per cent of the workers as against 9 per cent for India as a whole. But the contribution of the industrial sector to the State income is not commensurate with the labour force engaged in it as the bulk of the industries in the State are traditional industries like cashew, coir, handlooms, handicrafts, etc., which require only very low investment and hence of very low productivity. There are only very few large scale industries in the State and the organised industrial sector absorbs only a very low percentage of the labour force in the State.

The total number of registered factories in the State during 1975 was 6,317 as against 3,499 in 1972 and 2,400 in 1960. The average daily employment, provided in these factories during 1975 was 2.64 lakhs as against 2.26 lakhs in 1972.

The growth in the number of factories in the different districts of Kerala and their average daily number of employment are presented in Table 10.1

Concentration of factory workers is highest in Quilon District where there are many cashew factories which are labour intersive. Many of the major industrial units are in Ernakulam District.

Apart from factory industries plantation industries such as tea, coffee and rubber have a vital role in the State's economy. They provide employment for about 2.7 lakhs persons. Employment in plantations was maximum in Idikki District where tea, coffee and rubber are cultivated extensively.

Table 10-1

DESTRICTWISE AND INDUSTRYWISE DISTRIBUTION OF REGISTERED WORKING FACTORIES AND WORKERS IN KERALA 1972 to 1975

	DISTRICTWISE AND INI					State				Triv	andrum		
Vo.	Name of Industry		1972 (1)		1973	19	74		375 (4)		972 5)		973 (6)
1	Oil Tra	A 261 117	B 1,649 5,177	A 312 119	B 1,893 5,193	A 336 117	B 2,126 5,080	A 319 111 267	3,102 4,868 122,465	A 20 5 19	104 179 6,688	A 24 5 20	128 176 7,718
3456	Cashew Bredi Cotton textiles Coir	269 32 181 167	942 15,460 3,741 4,495	264 32 268 232 551	118,309 941 17,006 4,452 5,240	265 32 375 260 617	119,999 999 18,706 4,313 6,031	32 415 250 655	932 19,761 4,198 5,500	9	1,255 39	i0 3 6	1,455 27 37
7 8 9	Saw mills Plywood, splints and veneers Printing	390 183 264 89	7,509 5,538 3,068	222 372 179	8,232 6,093 3,997	244 449 227	8,583 6,939 4,404	271 456 217	9,013 7,148 4,310	4 31 1	199 1,255 433	5 35 2	1,321 457
0	Chemical and chemica products	A CONTRACTOR	6,795 652	89 54	6,583 922	107 66	8,029 1,164	118 82	8,370 1,223	5	486	5	471
2 3 4	Matches Soaps General engineering	110	1,152 2,508	38 171 260	1,320 2,747 12,623	43 198 280	1,552 2,996 12,689	40 221 285	1,437 3,152 12,519	7	399 48	7 1 19	399 4 2,08
5 6 7	Tiles Automobile repairing Other industries	234 192 879	12,419 5,211 36,550	298 1,585	5,946 41,869	365 2,055	6,963 48,387	2,211	6,969 50,227	19	2,099 1,339	63	1,44
	TOTAL	3,499	226,088	5,016	253,366	6,036	258,960	6,317	264,194	176	14,543	206	1,603

Table 10-1-(cont.)

ar.	Name of Industry		T	rivandrun	7					Quilon	1	018	
Sl. No.	Name of Industry	19			975		972	197			1974		1975 (12)
1 2	Oil Tea	A 26 5 20	B 150 171 7,670	A 21 5 21	B 117 150 8,030	A 14 8 228	B 77 234 94,437	A 18 8 225	89 232 99,056	A 19 8 229	B 113 228 101,923	A 19 7 228	B 114 204 103,272
3 4 5 6	Cashew Beedi Cotton textiles Coir Saw mills	io 4 6	1,453 35 37	8 5 7	1,474 75 46	1 1 26	992 43 233	1 5 57	955 199 455	i 1 59	1,139 52 419	1 1 68	1,250 53 439
8 9	Plywood, splints and veneers Printing Rubber	5 45 4	231 1,576 475	5 43 4	190 1,840 493	24 15 16	969 331 500	27 26 19	1,101 374 524	29 26 20	1,163 394 528	32 32 18	1,223 407 480
10	Chemical and chemical products Matches	5 2	606 62	6 5	823 86	3 5	92 58	3 5	94 58	2 7	81 87	3 14	95 180
12 13 14 15 16	Sosps General engineering Tiles Automobile repairing	7 1 24 76	387 48 2,324 1,630	1 9 4 25 83	5 527 91 2,587 1,956	3 41 5 75	225 2,160 162 3,626	4 42 9 130	230 2,143 215 4,275	8 43 17 169	325 2,268 265 5,056	9 44 13 170	277 2,243 221 4,935
17	Other industries TOTAL	240	16,855	252	18,490	465	104,239	579	110,000	638	114,041	659	115,393

SI.	Name of Industry				Alleppey						Kotta	yamı	
340-		200	1972		1973	MAN.	1974	MEN	1975		972	19	13
			(13)		(14)		(15)		(16)	(17)	(1)	3)
		A	В	A	B	A	B	A	B	A	B	A	B
1	Oil	58	404	57	411	52	359	50	411	12	43	18	72
2	Tea	100			10000				300	12 1	17	5	72 76
3	Cashew	6	5,732	6	6.069	4	5,116	4	5,171				**
4	Beedi	22	4.0	**	3440	**			-	-		100	
5	Cotton textiles	1	289	2	428	3	454	4	599	1	200	1	220
6	Coir	137	2,921	166	3,103	191	3,075	176	2,892	2 25	26	33	220 31 202
7	Saw mills	8	37	20	108	24	140	25	142	25	157	33	202
8	Plywood, splints and	-	-	-	- 2000	14/20		1	1,200	1445			
27	vencers	11	557	10	486	11 24	701	9	343	13	726	14 58	767
9	Printing	20	154	23	167	24	158	27	174	39	717	58	802
10	Rubber	4 1	154	1	154	3	158	3	171	38	1,118	92	1,734
11	Chemical and chemic	al z	196	6	100	0	101		240		0.50		
12	products Matches	3	130 25	3	159	8	161	5 5	340	8	358	9	435
13		7		9	21	5 2	84 21	20	56 21	**	**	1	9
14	Soaps General engineering	7	86	7	73	10	90	11	100		Ė	14	100
15	Tiles	9	19	q	79	3	78	4	81	5	50 37	11	138 65
16	Automobile repairing	5	173	6	194	8	290	13	365	25	549	37	602
17	Other industries	53	1,932	79	2,180	118	2,834	121	3,133	25 54	1,229	123	1,621
19.	The state of the s	-	-	-	-		-	- 30	1100000	U LEVEL	10200	149	1,041
	TOTAL	317	12,518	391	13,670	466	13,719	462	13,999	227	5,247	412	6,779

Table 10-1-(cont.)

					ABI	ic 10.1-	-(cont.)						
Sl. No.	Name of Industry		A	Cottayam					Idikki				
340.			1974	1	1975		1972	1	973	19	774	197	75
			(19)		(20)		(21)		(22)	(2	3)	(24	1)
		A	B	4	B	A	B	A	B	A	В	A	B
100	Oil	18	72 34	17	62	8	47		46	8	64	9	59
2	Tea	5	34	3	20	81	3,567	8 79	3,518	77	3,555	74	3,381
3	Cashew	**	**	**	**		5000	14			The state of the s		100
4	Beedi		. 33		.88		1997		1				
5	Cotton textiles	1	239	1	264	1	10	1	10	1	10	1	10
6	Coir	2	33	3	41			44		244	**	1000	
8	Saw mills Plywood, splints and	47	315	42	295	4	60	4	58	2	39	2	29
	vencers	19	616	20	897	1	42	2.		2	82	1	50
9	Printing	67	862	59	780	2	42 16	2 7	16	3	82 25	3	50 25
10	Rubber	125	2,077	111	1,829	4	66	7	107	6	57	11	197
11	Chemical and	1000					HP COL						
	chemical products	13	472	12	504	1	48	1	48	2	57	2	49
12	Matches	2	59 5	2	37							(6.0)	
13	Soaps	2	5	2	5	1.5	0.55		**	4.0	0.00	-	
14	General engineering	12	86	12	80	3	198	2	123	3	176	1	12
15	Tiles	15	149	14	141	4.2	59	22		155	228	**	200
16 17	Automobile repairing	44	581	43	610	1	59	4	147	8	239	6	156
1/	Other industry	168	2,183	166	2,022	8	257	11	239	12	294	12	305
	Тотаг.	540	7,783	507	7,587	114	4,370	119	4,362	124	4,598	122	4,273

Table 10-1-(cont.)

SI No.	Name of Industry		Basil N		Ernak	ulam					1	Trichur	
2,01			1972 (25)		973		974 27)		1975 28)		072 29)		73
		A	B	A	B	A	B	A	B	A	B	A	B
1	Oil	36	187	43	240	46	248	44	252	76	568	91	628
2	Tea			(A)			1000	(FORES		1	76	1	73
3	Cashew	4	1,196	4	963	4	939	4	928	5	2,259	4	1,867
4	Beedi	3	36	3	36	3	36	3	27	3	58	3	58
5	Cotton textiles	4	1,156	4	1,132	5	1,155	5	1,262	7	2,533	7	2,537
6	Coir	13	344	21	444	20	424	18	392	3	32	6	58
7	Saw mills	90	947	113	1,082	132	1,193	131	1,052	74	606	99	699
8	Plywood, splints and						30.00					190	200
100	veneers	14	477	19	571	22	627	27	798	21	646	26	743
9	Printing	48	917	65	1,102	87	1,310	93	1,288	32	512	44	631
10	Rubber	2	49	12	163	15	190	15	226	9	300	12	303
11	Chemical and chemic		Was die										
40	products	21	4,439	24	4,160	27	5,252	33	5,237	17	442	18	375
12	Matches	7		3	107	2	98	3	104	20	261	20	292
13	Soaps		854	15	917	16	1,003	16	1,080	3	99	5	94
14	General engineering	30	382	44	455	58	584	65	622	25	604	38	655
15	Tiles	21	584	26	640	29	682	28	582	124	4,567	133	4,705
16	Automobile repairing	19	479	26	640	43	864	51	832	25	387	36	414
17	Other industries	218	1,423	368	16,164	457	18,285	476	18,110	110	4,077	198	4,554
	TOTAL	530	2,627	790	28,816	966	32,890	1,012	32,792	555	18,027	740	18,506

1	The state of the s		Tric	hue					Po	alghat	OF THE		
Sl. No.	Name of Industry	-	11111		NAC.		972		1973	19	74		75
3350			1974		975				(34)	(35)	(3	16)
			(31)	(3	(2)		(33)	1			B	A	B
		1	B	A	B	A	B	Δ	В	Α		11.00	61
		THE RESERVE		87	630		63	9 3	45	10	52	11 3	127
1	Oil	99	690 78	0/	60	9	137	3	128	3	128		
2	Tea	1	1,983	5	2,567			**	543	iš	543	iŝ	543
3	Cashew	9	58	3	58	15	543	15 10		11	865	12	973
4	Beedi	7	2,596	5 3 7	2,588	4	888	10	954	11	5	1	5
5	Corten textiles	7	52	8	66	**		- 1	432	73	477	81 47	471
0	Saw mills	100	1,026	106	759	38	280	68	1,171	73 43	1,110	47	1,181
10.5	Plywood, splints	100 27	712	28	682	40	1,190	43	1927				
	and veneers				1	0.0	one	29	349	28	340	29	357
9	Printing	57	796	57 14	801	23	354 56	7	86	10	100	8 12	94
10	Rubber	13	331	14	332	3	124	7	154	8	167	12	260
11	Chemical and chemi-	20	386	20	396	3	144						277
The Party	cal Products	- Marie	400	00	309	10	252	10	257	10	254	13	211
12	Matches	27	366	26 5	26			2	10	2	10	12	283
13	Soaps	7	111 676	40	660	9	192	13	236	13	197 614	11	587
14 15	General engineering	40 135	4,480	134	4,383	9	617	10 2 13 12 28	615	10 2 13 13 13	254	17 11 34	291
15	Tiles	35	402	134 34	401	17	172	28	249	31	237	1000	100
16	Automobile engi-	22	102						0.547	274	4,092	337	4,585
17	necring Other industries	209	4,740	252	5,243	116	2,708	225	3,547	2/9	7,002		-
11	Other maustries		-		-			400	8,781	545	9,208	631	10,09
	TOTAL	832	19,483	827	19,963	303	7,576	482	0,/01	310		-	-

Table 10.1-(cont.)

	· Chia				Malop	urram					Kozh	ikode	
Sl. No.	Name of Industry		1972		073		1974 (39)		975 HO)		1972 (41)		975 42)
			(37)	A COLOR	Contract of the Contract of th		В	A	B	A	B	A	В
		A	B	Λ	В	A	The state of the s	9	60	14	64	23 13	97
4 100	Oil	6	37	6	46	8	74			13	807	13	830
2	Tea	1	-744		**					3	1,220	2	1,128
q	Cashew	1	250			**	The state of the s		10000	1	25	1	25
4	Beedi	***		ï	183	i	180	1	162	20 11	1,537	30 24	1,642 541
5	Cotton textiles	1	183			2	18	2	18	11	375	81	1,290
6	Coir	***	75	19	103	22	124	23 12	125	67 23	1,283	41	1,100
7	Saw mills	12	259	9	182	2 22 10	222	12	224	23	785	74	1,100
8	Plywood, splints	10	7.13		100		market a		100	20	1,087	46	1,026
	and veneers	4	26	8	54	11 5 2	80	9	64	29 8	238	20	285
9	Printing	4	84	4	104	5	113	6	121	10	242	20 13	612
10	Rubber Chemical and chemi-	2	413	1	52	2	448	**		10	Last.		
11	cal producets	300						4	14	4	56	9	122
12	Matches		1	-	4.0	1.55	**	3 3		3	208	11	264
13	Soaps		-	12	**	94	74	2 3	24	14	292	24 28	301
14	General engineering	+ +			197	9	310	3	328	21	3,412	28	3,450
15	Tiles	2	321	-	68	2 9	75	7	41	49	867	79	980
16	Automobile engi-	5	50	8	68					-	. 016	961	5,937
0112	neering	4611	05	25	156	29	229	37	335	140	5,916	261	3,557
17	Other industries	14	95	23	100		-	1000		400	10 414	706	1,9630
	TOTAL	64	1,793	83	1,153	102	1,877	112	1,516	430	18,414	700	
		-	-			1	A STATE OF THE STA						

Table 10.1-(cont.)

			E.	zhikode					Cannan	ore			10
SI. No.	Name of Industry		1974		1975		1972 (45)		973 (46)		1974 (47)		975 48)
1 2 3 4 5 6 7 8	Oil Tea Cashew Beedi Cotton textiles Coir Saw mills Plywood, splints and veneers Printing	A 32 13 1 40 28 92 46 61	(43) B 185 745 958 25 1,844 575 1,398 1,116	A 33 13 2 1 42 32 102 56 63 23	(44) B 206 790 1,095 25 1,929 612 1,317 1,322 1,117 308	8 5 3 10 132 40 19 20 2	B 55 160 1,440 280 6,417 678 1,659	A 15 5 3 10 201 4 51 29 36 3	8 91 160 1,488 279 7,670 44 774 1,834 251 80 16	A 18 5 3 10 295 4 60 30 40 3	B 119 141 1,410 337 8,771 44 863 2,003 277 55	A 19 5 3 10 333 4 68 34 41 4 3	B 128 136 1,402 279 9,250 44 825 2,103 295 48
10 11 12 13 14	Rubber Chemical and chemi- cal products Matches Soaps	23 16 9 12 25	320 358 133 388 324	19 11 12 31	618 139 286 372	2 1 5	50 11 70	2 1 20 8 46	21 9 129	2 2 2 21 8	21 14 147 649	2 2 2 24 8	21 14 195 646
14 15 16	General engineering Tiles Automobile engi- neering	31 88	3,411 1,211	35 90	3,437 1,102	5 8 22	654 209 1,139	8 46 102	681 856 1,702	58 148	458	51 156	363 2,098
17	Other industry TOTAL	354 872	6,914	966	7,505	318	12,983	538	15,635	711	17,480	767	17,906

A. Number of registered working factories; B. Average daily number of employment

Based on the annual survey of industries certain economic indicators have been worked out for the years 1962, 1964, 1971, 1973–74, 1974–75 and 1975–76. The survey covered all factories in the State employing

10 or more workers and using power and those employing 20 or more workers and not using power. Table 10.2 gives the above indicators for different years.

Table 10-2

		IND	STREES COVERED	BY A.S.I. CEN	SUS SECTOR	t		
	(1)	1962	1964	1971 (4)	1972 (5)	1973-74	1974-75	1975–76
1.	No. of factories covered Productive capital (Rs.	532 5,670-44	579 7,348-12	818 25,389	::	899 50,010-38	904 54,299-07	661 33,323·39
3. 4.	in lakhs) No. of persons employed Wages salaries and	137,013 1,341-25	145,494 1,550-84	186,833 4,301-83	***	201,543 6,457-88	205,733 7,565-66	173,601 7,104-94
5-	other benefits (Rs. in lakhs) Value added by manu- facture (Rs. in lakhs)	2,413-27	2,948-15	9,691-44		11,723-81	13,701-89	12,356-52
6-	Value added by manu- facture per employee (Rs.)	1,761-00	2,026-00	5,187-00		5,817-00	6,659-87	7,117-77

Small Scale Industries

Some of the important small scale industries in the State are handloom weaving, oil crushing, pottery, carpentry, blacksmithy, coir industry, beedi making, etc. Most of these industries are having single proprietorship.

There are a number of cottage industries in the State such as coir weaving, mat making, fish curing, bell metal, curing of arecanut, bamboo works, etc. Quilon and Alleppey Districts produce some of the best varieties of coir yarn.

Coir industry prevides employment to a sizeable number of people in the Taluks of Quilon, Karunagappally, Karthikapally, Shertallai, Ambalapuzha, Vaikom, Ponnani, Kozhikode, Tirur, Quilandy, etc. Handloom weaving is a dominant cottage industry in the Taluks of Quilon. Kottarakara, Sherthallai, Vaikom, Kunnathunad and in places of Chovva, Chirakkal and Azhikode of Cannanore District. Screwpine mats are produced in the coastal taluks of Quilon and Alleppey Districts. Kayamkulam and Thazhava (in Karunagappally Taluk) are famous places for the production of fine

mats. Molasses from sugarcane is produced in Thiruvalla, Pathanamthitta, Kunnathunad and Chittur Taluks of the State. Curing of fish by sun-drying is being exported to other countries and earn valuable foreign exchange. Curing of arecanut is being done in the taluks of Meenachil, Thalappally, Trichur and Mukundapuram. Oil crushing industry is functioning in all parts of the State except in the hilly regions. Village potteries make a large variety of earthernware articles for the domestic use especially of the vulnarable sections of the society. Using reeds and bamboos obtained from the forests, mats and baskets are produced. Kora grass mats are produced in the taluks of Talappally and Chittoor. Kunnathunadu and Moovattupuzha are the largest producers of lemongrass oil. Beedi making provides employment to a sizeable number or people in all parts of the State.

Industrial relations

The following table gives the details of industrial disputes resulting in work stoppages and mandays lost in the State during 1965, 1970, 1971, 1972, 1973, 1974, 1975 and 1976

Table 10-3

SI.	Industry			No.	of Indu	strial di	sputer					No. of	Mandayı	lost (in	thousa	nd)	
No.		1965	1970	1971	1972	1973	1974	1975	1976	1965	1970	1971	1972	1973	1974	1975	1976
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	Plantations	40	37	49	47	19	56	11	2	220	63	1,355	118	158	3,180	15	136
2.	Textiles	12	6	17	18	30	26	5	20	40	4	119	117	326	141	21	9
3.	Coir	**	3	3	11	10	9			**	5	921	1,138	18	29		
4.	Saw mills	8	12	7	8	8	8	3		5	4	1	1	23	10	5	
5.	Tiles	45	26	9	11	20	16	4	2	41	40	53	34	214	252	3	
6.	Cashew	8	1	4	26	24	7	3	3981	319	1	11	1,387	772	811	23	
7.	Others	82	187	181	175	147	103	65	33	160	493	671	415	781	371	471	79
	TOTAL	195	272	270	296	258	225	91	57	785	610	3,131	3,210	2,292	4,794	538	226

INDUSTRIAL DISPUTE IN KERALA RESULTING IN WORK STOPPAGES

XI. Transport and Communications (a) Road Transport

Kerala has nearly 85,165 km. of roads (as in 1977-78). The road length is nearly 36.6 per 10,000 of population, more or less same as the All India average. Area-wise Kerala has 219 km. road per 100 sq. km. of area, which is larger than the All India average. However, it is to be noted that the total length stated above is constituted by various categories of roads as shown by Table 11.1

Table 11-1

	TAX OF STREET,		
Sl.	Categories	Road (As i	length km- in 1977-78)
(1)	(2)		(3)
1.	(a) National Highway	**	838 15,255
	(b) Under P.W.D. (B and R) (c) Under Irrigation wing		401
	(d) Under Projects (a) Under Corporations	**	25 957
2.	(b) Under Municipalities		2,000 60,039
	(c) Under Panchayats (d) Under C. D. and N.E.S. Blocks	**	2,905
3.	K.S.E.B.	***	574 1,155
4.	Forests Railways	**	66
6.	Others		947
	TOTAL		85,165
	AND THE RESERVE OF THE PARTY OF	BU	1200000

The national highways NH 47 and NH 17 pass through the State. NH 47 runs a length of 416.8 km. through the State starting at km. 182/2 from Walayar in the Tamil Nadu boarder. It passes through Palghat, Trichur, Alwaye, Cochin, Alleppey, Quilon, Trivandrum and Neyyattinkara to enter Parassala before crossing to Tamil Nadu at km. 599/0. NH 17 has a length of 421 km. in the State. It starts at km. 18/0 from Thalappady in the Karnataka Boarder and passes through Kasargod, Cannanore, Calicut, Chavakad, Kuttippuram, Puduponnani, Chettuva, Cranganore and Parur to end at km. 439/0 in Edappally. There it joins NH 47 at km. The two national highways together cover the major part of the coastal length of Kerala besides linking some midland regions. Besides the national highways, there are 31 state highways, many major district roads, other district roads, village roads, etc., in the State as detailed under Table 11.2

Table 11-2

							THE RESERVE TO SERVE	120	con	1977	
CHARGES	OF	ROADS	IN	KERALA	CATEGORYWEE	AND	SURFACEWISE	140	Old	1000000	

	LENGTH OF	ROADS IN KERAL	A CATEGORE WAS	teries of an and a second		
SI.	Category	Total length (km.)	Concrete	Bituminous	Sur ace distribution W.B.M.	Gravel and Earth Roads
0	and the second	(3)	(4)	(5)	(6)	(7)
(1)	(2)			838	TO CONTRACT OF	**
1	(a) Under National Highway	838				
	(b) Under P.W.D.	0.000	45	1,926	57	
	(i) State Highways	2,028	A CONTRACTOR OF THE PARTY OF TH	4,710	497	109
	(ii) Major District Roads	5,324	8	3,003	1,660	518
	(iii) Other District Roads	5,229	48	110	2,400	164
	(iv) Village Roads	2,674	TO STATE OF	110		
				9,749	4,614	791
	TOTAL OF I B	15,255	101	10,587	4,614	791
	TOTAL OF I (a)+I	(b) 16,093	101	10,567		E SHAPE
		Carried St.	USA STEEL STEEL	on who are the		Tel S May
				110	163	106
	(c) Under Irrigation wing	404	2	113	15	A CO SEC
	(d) Under Projects	25	7000	270	240	309
п		957	8	400	300	1,100
AL.	(b) Under Municipalities	2,000	24	576	2,001	57,768
	(c) Under Panchayats	60,039	744 Tall	270	1,000	1,905
	(d) Under C.D. and N.E.S	2,905	10.00		1,000	135905
	Blocks			473	101	
Ш	Under K.S.E.B.	574		100	138	917
IV	Under Forests	1,155		100	66	
V	Under Railways	66	NA -	100	400	447
VI	Others	947	100 (Ba#0)	100	100	
	TOTAL	85,165	135	12,629	9,058	63,343

The State highways numbering 31 connect the various important places in the State both interior regions and areas in the border. These roads serve as links from the national highways and between the coastal, midland and highland regions. The names and length of the State highways are given in Table 11.3.

TABLE 11-3

STATE HIGHWAYS AND THEIR LENGTH

	THE PERSON OF	Length km.
SHI	Main Central Road	340/600
SH2	Trivandrum Chenkottah Highway	72/500
SH3	Nedumangad Shorlacode Highway	37/484
SH4	Quilon Chenkottah Highway	81/249
SHS	Kayamkulam Pathanapuram Highway	42/520
SH6	Kayamkulam Thiruvalla Highway	30/890
SH7	Thiruvalla Kozhancherry Kumbazha Highway	32/800
SH8	Main castern Highway (Punalur Ranni Mavattupuzha)	153/600
SH9	Kottayam Kozhancherry Highway	44/466
SH10	Mavelikkara Kozhancherry Highway	28/766
SHII	Alleppey Changanacherry Highway	24/200
SH12	Ambalappuzha Tiruvalla Highway	27/290
SH13	Kottayam Kumali Highway	109/658
SH14	Erattupettah Peermedu Highway	24/300
SHI5	Ettumannoor Ernakulam Highway	57/330
SH16	Alwaye Munnar Highway	114/140
SH17	Munnar Udumalpet	59/170
SH18	Munnar Topstation	36/210
SH19	Munnar Kumali	105/100
SH20	Kottamangalam Tripunithura	41/600
SH21	Chalakudi Anamalai	86/030
SH22	Grangannoor Shornoor	70/590
SH23	Shornoor Perinthalmanna	39/380
SH24	Calicut Palghat	140/260
SH25	Thathamangalam Chittur Nattukkal	14/200
SH26	Nattukkal Velanthavalam Highway	11/664
SH27	Palghat Koduvayoor Thathamangalam Meenakshipuram	35/010
SH28	Calicut Nilamboor Gudalloor Highway	103/600

		Length Ame
SH2	9 Calicut Vythiri Gudalloor	97,069
SH3	ST TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	55/127
SH3		52/194
	Total	2,068/988
		The second secon

Nors. (i) A deduction of 41 km. for overlapping etc., is to be made and thus the set length (as on 30th June 1977) becomes 2,028 km.

(ii) The erstwhile state highway 30 (West Coast Road) has been converted into N.H. 17 and hence is no more a state highway.

There is a Highway Research Institute functioning in the State. It started as a testing and control laboratory for roads and bridges works in Kerala. In 1973 the name was changed into Kerala Highway Research Institute. There are three divisions at present under the Institute, viz., the Soil Mechanics and Foundation Division, Concrete and Structure Division, and the Flexible Pavements Division. The Traffic Engineering Division is yet to be started.

The number of motor vehicles on road having valid registration has increased from 13,457 in 1956-57 to 118,056 in 1975-76. The motor vehicles having valid registration in Kerala is given in Table 11.4. The district-wise number of motor vehicles on road as on 31st March 1976 is also furnished in Table 11.5.

Table 11.4

	CANADA HILLARD	NUMBER OF MOTOR V	EHICLES HAVING VAL	D REGISTRATION			
Year	Motor cycles	Private cars and jeeps	Goods vehicles	Taxi cars	Buses	Others	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1956-57	627	6,871	3,162	591	2,198	8	13,457 24,480
1960-61	2,064	11,611	5,128 8,848	1,485 4,118	3,511 4,370	681 1,427	44,390
1965-66 1970-71	5,231 15,117	20,396 33,294	13,162	8,848	6,563	9,250	86,234
1971-72	16,959	36,531	13,584	9,699	6,840 7,174	10,096 5,788	93,709 99,429
1972-73	17,715	44,176 45,064	14,164 13,921	10,442 10,737	6,795	6,456	104,465
1973-74 1974-75	21,492 25,769	50,356	15,875	11,525	7,830	8,320	119,670
1975-76	26,110	47,087	15,882	11,582	8,268	9,127	110,000

Table 11-5

		NUMBER	OF MOTOR	VEHICLES	AS ON 31s	T MARCH	1976 (Dist.	RICT-WISE)			
St.	District	Goods vehicles	Stage carriages	Taxies	Motor cars	Jeeps	Auto- rickshaws	Motor cycles	Tractor trailors	Other vehicles	Total
	190	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
(1)	(2) Trivandrum Quilon	2,434 1,874	3,781 362	1,331 1,504	9,645 4,300	1,188 413	252 60	6,235 1,839 2,032	87 91 121	253 67 64	25,106 10,510 8,367
3 4 5	Alleppcy Kottayam Idikki	1,070 404	341 419 80	1,079 1,116 293	3,502 1,911 891	184 484 694	164 259 8	1,3±3 445	112 196	82 139	6,846 3,150 18,195
6	Ernakulam Trichur	2,471 1,422 878	521 733 332	1,548 1,412 1,123	7,029 2,708 2,742	422 187 267	653 292 477	4,736 2,715 2,137	346 403 1,457	469 205 58 75	10,077 9,471
9	Palghat Malappuram Kozhikode	597 2,543	308 774	669 556	1,131 4,395	130 1,959 492	66 661 842	560 2,906 1,112	263 350 148	75 242 165	3,799 14,386 8,149
11	Cannanore	1,309	8,268	1,051	40,667	6,420	3,734	26,110	3,574	1,819	118,056
		The second second	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO SERVE THE PER	-	-		-	The second second	The state of the s		

(b) Railways

There is a railway line connecting Trivandrum in the south with the northern end of the State. Earlier line was metergauge from Trivandrum to Quilon and beyond Quilon broadgauge. The metergauge line from Trivandrum to Quilon was converted

to broadgauge and the same was inaugurated on 13th September 1976. There are two other railway lines coming from Madras, one entering through Palghat gap in the northeast and the other through Aryancavu gap in the southeast. The railway line coming through Palghat gap is a broadgauge line, and the other one is a metergauge line.

(c) Water ways

The rivers and backwaters in the State provide a good system of water routes. The rivers are interconnected by backwaters and canals. There are 1,900 km. of waterways in the State connecting ports and industrial commercial centres. One of the cheapest modes of transport in the State is water transport.

(d) Airways

Trivandrum and Cochin are on the air map of India. With the inauguration of the Trivandrum-Dubai direct international flight recently in January 1978 the importance of Trivandrum air port has increased. The other important international flights from Trivandrum are to Colombo and to Mali. Internally there are flights from Trivandrum to Bombay and Madras. There is a flight to Madras connecting Cochin to Coimbatore

(e) Posts and Telegraphs

There were 2,898 post offices under the Kerala Circle of Posts and Telegraphs Department as on 1st July 1961. The number of post offices in the State has increased to 4,013 in 1971-72 and 4,030 in 1975-76. These post offices include departmental sub-offices, extra departmental sub-offices, extra departmental branch offices, sub-offices. extra departmental branch offices, sub-offices and head post offices.

By the end of 1975-76 there were 303 telephone exchanges as against 81 telephone exchanges in 1961-62. The number of telephone connections was 65,082 in 1975-76 as against 16,852 in 1961-62.

(f) Broadcasting stations

There are four broadcasting stations of all India Radio at Trivandrum, Trichur and Kozhikode. Alleppey,

XII. Power

Availability of power is an essential prerequisite for industrial development. Generation of power is cheaper in Kerala when compared to other states in India. Efforts at exploiting the hydroelectric resources of the State started in 1933. The hydroelectric project at Pallivasal was the first project taken up and this scheme harnessess the water of Mudirapuzha river, a tributory of Periyar

The installed capacity of power system in Kerala rose from 36 M.W. in 1951-52 to 751.50 M.W. in 1975-76. All the three generating units of the Idikki hydroelectric power station have been put into service, and the present installed capacity is 1,011.5 M.W.

The number of consumers of electricity has increased from 7·11 lakhs in 1972–73 to 9·10 lakhs in 1975–76. The units of power generated in 1975–76 was 2,783·28 generated in 1975-76 was 2,783·28 M.K.W.H. as against 2,351·2 M.K.W.H. in 1972-73. The per capita consumption of

electricity per annum was 85.8 unit in 1975-76 as against 77.41 unit in 1972-73.

	Table 12-1	
Year	Power	Installed power capacity (M.W.)
(1) 1961-62 1966-67 1971-72 1972-73 1973-74 1974-75 1975-76		(2) 147-50 361-00 549-+0 624-60 624-60 624-60 754-60
	Table 12.2	
	Power generation (in million K.W.H.)	Power consumption including external sales (in million K.W.H.)
(1) 1956-57 1960-61 19-5-66 1970-71 1971-72 1972-73 1973-74 1974-75 1975-76	(2) 363·54 581·82 841·94 2,125·99 2,292·55 2,351·27 2,510·50 2,659·16 2,783·28	(3) 299·29 505·61 748·74 1,858·72 1,501·49 2,0°0·60 2,120·45 2,202·99 2,317·80

XIII. Tourism

Kerala is famous for its natural scenery and equable climate and is an ideal place for tourists. From remote periods this treasure land of the east had attracted many nations seeking trade and empire. In order to capture the market, foreign traders like the Arabs, the Portugese, the French, the Dutch and the British landed on Kerala soil and the warm hospitality of the people and the rulers of Kerala enabled these foreigners to carry on trade in spices, ivory and other valuable products. Majority of the people of Kerala are Hindus. The other two major communities are Christians and Muslims. One can find temples, churches and mosques jostling each other in the same locality.

In order to guide tourists, there is a Tourist Department in the State. Travellers Bunglows and Rest Houses are provided in all important places of the State.

Trivandrum, the capital city of the State is an ancient city of palaces, temples, churches and mosques. The Sree Padmanabhaswamy Temple is in the heart of the city. The Art Gallery and the Napier Museum are also centrally situated. The city has a fine sandy beach. There are facilities for recreation, tennis, golf, boating and swimming. Even aerial joy-riding or mountaineering trips are possible in and around the city. Trivandrum is the seat of Kerala University and the abode Kovalam beach 14 km. of several colleges. to the south of Trivandrum is one of the most picturesque bathing beaches in the whole world. It is an international tourist centre. NEYYAR DAM 29 km. from Trivandrum is a delightful spot for picnic. ARUVIKARA 16 km. from Trivandrum is situated on the banks of Karamana river. It is a pilgrim centre. There is an ancient temple dedicated to the Goddes Bhagavathi, built on a rock on the right bank of the river and headworks

command a view of the beautiful scenery and picturesque landscape around. VARKALA 50 km. to the north of Trivandrum is a famous pilgrim centre renowned for its Janardhana Temple. High cliffs and mineral water springs are added attractions of this place. PONMUDI is a health resort hill station, 56 km. from Trivandrum. VIZHINJAM 13 km. to the south of Trivandrum is a modern fishing harbour under construction. INDIAN SPACE RESEARCH ORGANISATION is situated at Thumba 16 km. north of Trivandrum.

COCHIN is a business centre and a harbour city. It has many places of interest, a unique Jewish synagouge, the former Dutch palace (with its ancient murals) and the modern harbour. MUNNAR 138 km. from Cochin and 914 metres above sea level is a plantation centre. It is a beautiful hill station and health resort. PEERMADE 74 km. from Kottayam is another hill station. From Peermade a winding road passes along to the Periyar lake, which is surrounded by a game preserve. Thekkady is the halting place for visitors to the game sanctuary on Periyar lake. Cruising on the lake is possible for visitors to watch wild life in its natural habitat. CALICUT is a business place and is famous in history as the capital of Zamorin of Calicut. It is here that Vascode Gama, the Portughese sailor, first landed in 1498 an event which was a turning point in the history of the Indian subcontinent.

The irrigation and power projects at PEECHI, PERINGALKUTHU and MALAMPUZHA are good tourist attractions. Residential accommodation is available for tourists in these places. The other important places in the State are ANJENGO an ancient European trading centre of historic importance, ALLEPPEY an industrial and commercial centre which used to be known as 'Venice of the East', ALWAYE the seat of large industrial concerns and about 20 km. north of

Ernakulam, KALADY the birth place of Sri Sankaracharya of the 8th century and CANNANORE with an ancient fort dating back to European Colonial days.

Some of the important handicrafts seen in the different parts of the state are ivory and wood carving, metal inlay, handloom weaving, screwpine works and bell metal casting. Kerala is famous for Kathakali and such other visual arts which have a lasting impression on the spectators.

XIV. Education

In the matter of literacy, Kerala stands very high among the Indian States. According to 1971 census the percentage of literacy in the State was 60.42 as against 46.85 in 1961. The percentage of literacy for India as a whole is 29.34 in 1971 as against 24.03 in 1961.

The percentage of literacy in the different districts of the State is given in Table 14.1.

Table 14-1
Percentage of Literates to Total Population

-			
St. No.	District	1961	1971
1	Trivandrum	45.30	62.54
2	Ouilon	50-39	64.97
2 3 4 5	A.leppey	57.04	70.44
4	Kottayam	61.52	72.88
5	Idikki	44.33	56.42
	Ernakulam	50.33	65.37
6 7 8 9	Trichur	47.08	61.61
8	Palghat	35.02	46.69
9	Malappuram	34.29	47.90
10	Kozhikode	44.88	57.23
11	Cannanore	41.29	54.84
	STATE	46.85	60.42

The percentage of literacy was highest in Kottayam District and lowest in Palghat District. Table 14.2 gives literacy by sex in 1971.

The District-wise distribution of Schools during 1972-73 to 1975-76 is furnished in Table 14.3.

Table 14.2 LITERACY BY SEX 1971 (Population in lakhs)

District		Males	Fen	nales	Total		
	Number	Percentage	Number	Percentage	Number	Percentage	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Trivandrum Quilon Alleppey Kottayam Idikki Ernakulam Trichur Palghat Malappuram Kozhikode Cannanore	7.52 8.45 7.88 5.89 2.46 7.68 6.79 4.47 5.03 6.96 7.41	68.64 70.10 75.22 76.18 62.21 70.52 66.35 54.58 55.32 65.82 63.20	6.23 7.72 7.09 5.33 1.86 6.47 6.33 3.40 3.86 5.09 5.56	56.48 59.84 65.79 69.55 50.25 60.16 57.23 39.22 40.78 49.56 46.62	13.75 15.68 14.97 11.22 4.32 14.14 13.12 7.87 8.89 12.05 12.97	62.54 64.97 70.44 72.88 56.42 65.37 61.61 46.69 47.90 57.23 54.84	
STATE	70.54	66.62	58.44	54.31	128.98	60.42	

Table 14.3 IBUTION OF SCHOOLS

Dis	TRICTW		KIBO IAO		01	uilon			All	opper	1
82-2261 (2) 526 192	77 \$2-8261 (3) 530 192	10andrum 91-1461 (4) 527 192	91-5161 (5) 526 192	\$2-7461 (6) 703 267	12-8261 (7) 702 264	91-1461 (8) 701 266	92-9261 702 265 189	82-3261 (10) 642 225 179	42: \$261 (11) 644 226 178	121 121 (12) 642 228 183	92-5261 (13) 641 228 183
133 11 9	134 11 9	146 11 9	148 11 9	172 8 15	175 8 15	186 8 15	15	11 18	11 18	11 18	11 18
177	177	177	177	150	150	1,326	1,330	1.220	1,222	1,227	1,226
1,049	1,054	1,063	1,065	1,315	1,314	1,520		-		STORE .	

	(4)
1	L.P. School
2.	II P. School
3.	High/Higher Secondary
4.	Engineering Technology(*)
5.	Teachers Training
6.	Technical and Industrial and Art
	and Crafts
-	Dharically Handicapped

TOTAL

		ible 14	•3 (cont.)	Id	ikhi			Erno	kulam	
1972-73	1973-74	1974-75	1975-76	E 1972-73	4V-8Z61 (9)	5 1974-75	97-5761 (1)	82-2761 (2)	47-8791 (53)	57-4791 (3)	97-5761 (5)
(14) 506 198 155 -6 12	(15) 511 201 159 6	503 197 160 6 12	504 197 161 6 13	175 64 52	168 61 46	205 79 54	206 80 54 1	515 196 181 12 16	521 196 185 12 16	513 195 192 12 16	510- 196 191 11 15
101	101	101	101	12	12	12	12	132	132	132	132
979	991	980	983	304	288	351	354	1,052	1,062	1,060	1,057

94-9461 (37)

39

1,173

1.	L.P. School
2.	TI P. School
2.	High Higher Secondary
4.	Engineering and Technology()
5.	Teachers Training
6.	Technical and Industrial and Arts
	and Crafts
7.	Physically Handicapped
	TOTAL

			ichur	-3 -(cont	(.)	Pa	lghat			Malaj	puram
 L.P. School U.P. School High/Higher Secondary Engineering Technology(*) Teachers Training Technical and Industrial and Arts and Crafts Physically Handicapped TOTAL	(26) 558 222 158 10 10 168 1	(27) 559 222 158 10 10 168 1 1,128	(28) 561 222 163 10 16 168 1,135	92- (29) (29) 559 221 165 10 10 168 1	82-72561 (30) 546 216 94 4 7 74 1	74-8261 (31) 546 216 94 4 7 74 1	52 461 (32) 546 214 94 7 74 1	(33) 548 215 96 4 7 75 1 946	27-226 (34) 791 207 62 5 5 5 1 1,110	84-866 (35) 793 207 62 5 5 5 1 1,112	(36) 799 229 90 5 5 39 1

			able 1	4·3—(con	4.)	Cam	umare			S	tate	
1. L.P. School 2. U.P. School 3. High/Higher Secondary 4. Engineering Technology(*) 5. Teachers Training 6. Technical and Industrial and Arts and Crafts 7. Physically Handicapped Total	65 (38) 848 309 97 65 54 1,319	(39) 850 309 95 6 5 54 	\$24 (40) 867 313 112 6 5 54 	92	(42) 1,077 454 116 67 65 1	1,729	1,101 465 132 6 7 65 1	94-66 (45) 1,110 465 132 7 7 63 1	(46) 6,887 2,550 1,399 78 105 1,116 7	(47) 6,904 2,548 1,404 79 105 1,116 7	(48) 6,965 2,600 1,512 79 105 1,116 7 12,384	92- (49) 6,975 2,606 1,521 80 105 1,115 11 12,413

*Including J.T.S., I.T.I. and Polytechnies.

During 1975-76 there were 6,975 Lower Primary Schools in the State as against 6,887 in 1972-73. The number of Upper Primary Schools has increased from 2,550 in 1972-73 to 2,666 in 1975-76. The total number of High Schools in the State during 1975-76 was 1,521 as against 1,399 in 1972-73.

The number of scholars in the L.P. Section during 1975-76 was 26.70 lakhs as against

29.90 lakhs in 1972-73. Similarly the number of students in the U.P. Section during 1972-73 and 1975-76 was 13.86 lakhs and 17.06 lakhs respectively. There were 9.07 lakhs scholars in the High School Section in 1975-76 as against 7.80 lakhs in 1972-73.

The number of scholars in the various districts of the State is furnished in Table 14.4:

Table 14.4 Number of Scholars

St. No	. District				Scholars	in lakhs			
		The Reserve	L.P. 5	ection	J. A.		U.P. S	Section	
		1972-73	1973-74	1974-75	1975-76	1972-73	1973-74	1974-75	1975-76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Trivandrum	2.91	2.77	2.72	2.55	1.51	1.60	1.66	1.76
2	Quilon	3,37	3.27	3.15	2.94	1.82	1.91	1.98	2.19
3	Alleppey	2.78	2.71	2.61	2.39	1.65	1.70	1.74	1.84
4	Kottayam	2.80	2.75	2.06	1.90	1.48	1.59	1.34	1.43
5	Idikki	alvaye.	2	0.88	0.85	701	-	0.48	0.54
6	Ernakulam	3.46	3.33	2.93	2.74	1.74	1.81	1.73	1.88
7	Trichur	3.22	3.28	3.02	2.83	1.49	1.61	1.71	1.84
8	Palghat	2.15	2.14	2.12	1.96	0.84	0.91	0.95	1.06
9	Malappuram	2.75	2.77	2.84	2.68	0.75	0.93	0.96	1.14
10	Kozhikode	3.04	2.92	3.13	2.82	1.24	1.32	1.43	1.62
350	Cannanore	3.39	3.24	3.22	3.04	1.34	1.47	1.51	1.76
11	Calmanore						-		
	TOTAL	29.90	29.18	28.68	26.70	13.86	14.85	15.55	17.06
	*37404	200			-	S. Carrier	-	the State of the last	-

Table 14.4-(cont.)

St. No	. District				Scholars :	in lakhs			The Party
		WHEN YOU SO	H.S. S	Section			To	tal	
		1972–73 (11)	1973-74 (12)	1974-75 (13)	1975–76 (14)	1972-73 (15)	1973-74 (16)	1974–75 (17)	1975–76 (18)
1	Trivandrum	0.90	0.99	1-06	1.02	5.35	5.36	5.44	5.33
2	Quilon	1.11	1.21	1.29	1.27	6.30	6.39	6.42	6.40
3	Alleppey	1.10	1.16	1.24	1.16	5.53	5.57	5.59	5.39
	Kottayam	0.88	0.97	0.90	0.86	5.16	5.31	4.30	4.19
1	Control of the Contro			0.26	0.26		20	1.62	1.65
5	Idikki	0.98	1.00	1.07	1.04	6.18	6.23	5.73	5.66
6	Ernakulam	0.83	0.93	1.05	0.99	5.54	5.82	5.78	5.66
7	Trichur	0.45	0.49	0.55	0.53	3.44	3.54	3.62	3.55
8	Palghat	0.30	0.35	0.40	0.42	3.80	4.05	4.20	4.24
9	Malappuram		0.68	0.75	0.73	4.88	4.92	5.31	5.17
10	Kozhikode	0.60			0.79	5.38	5.49	5.58	5.59
11	Cannanore	0.65	0.78	0.79	0.13				-
	TOTAL	7.80	8.65	9.36	9.07	51.56	52.68	53.59	52.83

Kerala has achieved substantial progress in the field of higher education also. There were 128 Arts and Science Colleges in the State in 1975-76. In addition to that there were 19 Training Colleges, 6 Engineering Colleges, 4 Medical Colleges, 1 Dental College, 1 Veterinary College, 1 Agricultural College, 1 Horticultural College, 2 Co-operative Colleges, 2 Physical Education Colleges,

10 Colleges for Oriental Studies and Fine Arts, 4 Law Colleges and 3 Ayurveda Colleges in the State. Table 14.5 gives the districtwise distribution of these colleges during 1972-73 to 1975-76. Details regarding number of scholars in Arts and Science and Professional Colleges and per capita expenditure on education are given in Tables 14.6 and 14.7 respectively.

Table 14.5

Distribution of Colleges in Kerala

Type of colleges		Tripa	ndrum			Qui	lon			Alle	pey		No.	Kott	ayam	
(1)	E 1972-73	© 1973-74	£ 1974-75	92-5761 (5)	@ 1972-73	€ 1978-74	© 1974-75	G 1975-76	(5) 1972-73	E 1973-74	92 4/61 (12)	97-5761 (3)	ET-2761 (4)	1973-74	57-4-761 (9)	97-5761 (1)
Arts and Science Engineering Medical Dental Veterinary Agriculture Horticulture Co-operative Physical Education Training Fine Arts and Oriental Studies Law	15 1 1 1 1 1 1 1 1 2	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 1 1 1 1 1 1 1 1 3 1 2 2	12 1 2	12 1 2	12 1	13 1	15 11 3	15 1 3	15	14 1 3	17 'i 'i 'i '4 	17	17 11 11 11 12 14 11	17 'i 'i '4
Ayurveda	28	28	28	29 —	15	15	15	16	19	19	19	18	23	23	23	23

Type of colleges		Idi	kki		Table		-(cont.) kulam)		Tri	chur			Pal	ghat	E
	(S) 1972–73	6 1973-74	51-14-10	97-5761 (31)	82-2261 (22)	4L-8161 (23)	SL-4761 (34)	92-5761 (25)	(9) 1972–73	₹/-€/6I (27)	ST-1791 (28)	94-5761 (3)	(30)	47-8761 (31)	(32)	97-5761 (33)
	2	2	2	2	17	17	17	17	14	14	14	15	8	8	8	8
Arts and Science		1000			1	1	1	1	1	1	1	1	1			1856
Engineering	1100	**	100		4.5						100		**		**	***
Medical	**		6 11		2 0.		16.4					**			25	
Dental	**	**		**				- Cer.	1	1	· · · b	F	2.0	**	**	
Veterinary	(404)	- 1				4.				**	***	-:	(3.3)	300	**	
Agriculture	100	150							1	1		1	**	-	#	**
Horticulture	**	**		100		1			4.4		0.0	1000	SKW.	**	**	**
Co-operative	11.00					The			- 40	**	4.9	100	1000	1004	i	i
Physical Education	-	33			2	2	2	2	1	1	1/4	1	1	J. F.	- 1	200000
Training Fine Arts and Oriental studies	(4(4)	24			1	1	1	1	1	1	1	1	0.0		**	**
	100	12		**	1	1	- 1	1	4.4	**	4.4	**	**	**	111	
Law					1	1	1	1		**		**	4.4	**	. 查	**
Ayurveda	10.0	***	-	-	-	-		-	-	-	777	00	10	10	10	10
TOTAL	2	2	2	2	23	23	23	23	19	19	19	20	10	-	-	-

Type of colleges		Mala	opuram		Table	14.5- Kozi	-(cont-)			Gani	nanore			Ste	ile	
Type of confe	1972-73	1973-74	1974-75	97-5761	1972-73	1973-74	1974-75	975-76	1972-73	1973-74	1974-75	94-5461 (45)	6 1972-73	42-8261 (4 7)	8 1974-75	92-5261 (49)
	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	10		100		128
	5	5	6	6	9	9	.10	11	8	8	8	9	122	122	123	6
Arts and Science	7				1	1	1	1		++		**	4	4	4	4
Engineering Medical				33	1	1	1	-1	++	**	85	3.0	1	1	î	1
Dental	15 10				***				**	**		**	1	1	1	1
Veterinary				44		**			**				1	1	1	1
Agriculture		1.45		**	(272)				**	- 3%	11		1	1	- 1	1
Horticulture	4.		1		- 5-	111	-	**	34.				2	2	2	2
Co-operation		44	1.44	++		1.2		1	- 3			- 33	2	2	2	2
Physical Education		30	**	2.5	1	2	0	. 5	1	1	1	1	19	19	19	19
Training	4.5		15	1	- 1	7	1	7					9	9	9	9
Fine Arts and Oriental studies	5	3	3	3	1	· ·	1	1					4	4	4	4
Law	**		1	1	suite.	- 1	-			***			3	3	3	3
Ayurveda	No. of	1		-	**		THE PERSON NAMED IN	-	-	-	-	7.	725	175	176	181
TOTAL	11	11	12	12	16	16 -	17	18	9	9	9	10	175	175	_	-

^{*}Including Sanskrit College.

Table 14.6

		Table 14'0	
NUMBER OF	SCHOLARS IN ARTS AN	D SCIENCE AND PROFESSIONAL COLLEGES 1	972-73-то 1975-76
St. No.	Year	Arts and Science Colleges	Professional Colleges
(1)	(2)	(3)	(4)
1. 2. 3.	1972-73 1973-74 1974-75	157,328 152,602 153,445 164,982	10,543 10,930 11,606 12,546

Table 14.7

PER CAPITA EXPENDETURE ON EDUCATION (Rs.)

SI. No.	State	1968-69 (Accounts)	1970-71 (Accounts)	1972-73 (.fccounts)	1973-74 (Accounts)	1974-75 (Revised Estimate)	1975-76 (Budget Estimate)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	Andhra Pradesh Assam Bihar Gujarat Haryana Jammu and Kashmir Kerala Madhya Pradesh Maharashtra Karnataka Orissa Punjab Rajasthan Tamil Nadu Uttar Pradesh West Bengal ALL STATES AVERAGE	4·5 14·5 2·6 4·4 14·0 17·9 23·5 10·2 7·8 10·9 5·3 19·8 9·4 6·7 4·1 9·5	14·4 17·0 8·7 16·0 18·6 20·3 28·5 12·0 19·7 18·5 10·9 22·5 16·9 17·8 8·5 15·9	14·53 16·58 NA NA NA NA 23·30 30·98 14·86 21·06 19·94 12·53 27·31 19·07 NA 11·52 16·47	19·43 20·40 13·38 21·22 30·99 37·00 18·16 26·62 22·58 15·21 33·56 20·87 14·22 18·26	21·32 26·13 14·22 24·09 28·44 33·81 46·05 19·79 30·56 25·62 20·89 35·01 24·62 26·65 17·28 22·12	24·05 26·09 17·13 25·68 29·05 35·21 50·52 20·31 32·01 29·04 20·66 38·25 25·80 26·40 21·82 22·72
		10.4	17-2	19:01		20.00	21.13

XV. Health

During the past few years, medical and public health activities in the State expanded considerably. The number of medical institutions under modern system of medicine (Government and grant-in-aid institutions) has increased from 397 in 1960-61 to 783 in 1972-73 and again rose to 886 in 1975-76. The number of medical institutions under indigenous system of medicine rose from 222 in 1960-61 to 413 in 1972-73 and again to 562 in 1975-76.

The distribution of these institutions with number of beds in different districts of the State during 1972-73 to 1975-76 is given in Tables 15.1, 15.2, and 15.3

The number of beds per lakks of population in different districts of the State from 1972-73 to 1975-76 is given in Table 15.4

The per capita Government expenditure on medicine and public health in the different States of India from 1968-69 to 1975-76 is given in Table 15.5:

Table 15.1
MEDICAL INSTITUTIONS AND BEIS IN KERALA (ALLOPATHIC)

SI.			Hospi	itals			pensarie . Clinic			M.G.I		and Pr		Mobile Dental Hospitals				
(1)	(2)	€ 1972–73	₩-8161 €	© 1974-75	9 1975-76	(2) 1972-73	(B) 1973-74	£ 1974-75	€ 1975–76	€ 1972-73	1973-7	57-4761 (13)	92-5261 (4)	5 1972-73	97-8761 (6)	57-4-75	(S) 1975-76	
1.	Trivandrum	15	15	19	19 12	47	50	48	49	18	18	18	19 20	1	1		1	
2.	Quilon	11	11	11	12	49	57	59	59	20	20	20	20					
3.	Alleppey	10	11	12	12	41	51	49	49	20	20	20	20		440			
4.	Kottayam	11	- 11	12	13	24	34	33	32	15	15	15	15					
5.	Idikki	2	2 -	2	2	29	35	35	35	4	4	4	4	4.0	-			
6.	Ernakulam	17	17	18	18	47	- 54	53	53	17	17	17	17	12	(0)			
7.	Trichur	17	18	18	18	37	47	48	49	18	18	18	18	+:0				
8.	Palghat	9	9	10	10	50	58	57	51	- 11	11	11	11				S	
9.	Malappuram	6	7	7	8	50 99	49	49	49	12	12	12	11 12		**			
10.	Kozhikode	9	9	9	10	39	48	48	49	15	15	15	15					
11.	Cannanore	10	11	12	13	80	103	101	102	13	13	13	15 13		1.4			
	STATE	117	121	130	135	490	586	580	577	163	163	163	164	1	1		1	

SI.	District	Grant-in-aid Institutions				Table 15.1—(cont.) Total institutions				Total beds				
		1972-73	1973-74	1974-75	1975-76	1972-73	1973-74	1974-75	1975-76	1972-73	1973-74	1974-75	1973-76	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
2. 4. 14. 15. 15. 16. 17. 78. 18. 19. 10. 1	Privandrum Quilon Alleppey Kottayam Idikki Ernakulam Prichur Palghat Malappuram Kozhikode Cannanore	3 '1 2 3 1 	1 1 	3 1 1 1 1	2 1 2 1 1 2 	85 80 72 54 35 83 78 71 57 64 104	86 88 83 60 41 88 83 78 68 72 127	89 90 82 61 41 89 85 78 68 72 126	90 92 83 61 41 89 87 72 69 74 128	4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758 3,043 1,664	4,795 1,617 3,249 2,000 261 2,391 2,925 1,107 776 3,170 1,815	5,125 1,737 3,262 2,031 261 2,623 3,171 1,242 784 3,188 1,888	5,334 1,881 3,579 2,490 261 2,661 3,692 1,242 796 3,416 2,216	
	STATE	11	2	7	9	783	874	881	886	24,184	24,106	25,312	27,568	

				411/1	Table	15.2	IN KE	RALA							
SI. No	District Construct	istrict Hospitals					Outions (Ayurveda) in Kerala Dispensaries					Beds 50			
(1) 1 2 3 4 5 6 7 8 9 10	(2) Trivandrum Quilon Alleppey Kottayam Idikti Ernakulam Trichur Palghat Malappuram Kozhikode Cannanore	9* 4 7 7 1 10 10 3 4 5	\$2-\$261 (5) 8 4 7 6 1 9 10 3 6 5 6 65 6 65	91-9161 (6) 8 4 7 6 1 9 10 3 6 5 6 65	27 29* 36 37 20 15 29 54 33 27 27 40	(8) 32 35 39 18 15 29 55 31 34 53	92-14/61 (9) 32 34 39 18 15 28 52 34 33 33 56	91-5261 (10) 33 34 39 18 15 28 52 34 33 33 57	17 15 5 3	0* 00* 06 66 66 00 99 94 100 100 100 100 100 100 100 100 100 10	\$2-\$261 (12) 380 70 96 86 10 154 154 60 96 60 96 1,262	\$2\(\frac{1}{4}\) \(\frac{61}{51}\) \(\frac{1}{3}\) \(\frac{390}{70}\) \(\frac{96}{96}\) \(\frac{86}{60}\) \(\frac{96}{96}\) \(\frac{60}{96}\) \(\frac{96}{1274}\) \(\frac{1}{274}\)	91 (14) 390 70 96 86 10 154 164 60 96 60 96		
	STATE		20		noco also.	5 9									
	Table 15.3 Medical Institutions (Homobopathy) in Kerala Beds Hospitals Dispensaries Beds														
St. No.	. District				9 2		19191		9	-73	7	1974-75	975-76		
	mula se po ave	1972-78	1973-74	1974-75	1975-76	1079 74			10)	1972-73	tr-8161 (12)	(13)	(14)		
(1) 1 2 3 4 5 6 7 8	Trivandrum Quilon Alleppey Kottayam Idikki Ernakulam	available © 1	(4) 1 1 1	(5) 1 1 1	(6) (7) parate figure not 1:11111111111111111111111111111111111		11 1 13 1 13 1 7	9 1 2 8 9 6	9 11 14 12 8 9	Separate figure not available	50 25 50 25 25 25 25	50 25 50 25 25 25 25 25	50 25 50 25 25 25 25		
7 8	Trichut Palghat Malappuram	Separate	1	i	Separate		10 1	0	11 10 9	cpara	25 25 25	25 25	25- 25-		
9 10 11	Kozhikode Cannanore	Sep	1	i	i &	1	14	-	15		250	250	250		
	STATE		8	8	1000		-		Tille						
					Table	15.4	TOTAL	PONT-WE	(as						
or M	District		Number (OF BEDS I	PER LAKH	POPULAT	ton (Dist	FRICT-WE	se)		Total				
SI. N	o. District		NUMBER (PER LAKH	populat mber of	ion (Dist	nous	1		Total		9		
(1) 1 2 3 4 5 6 7 8	(2) Trivandrum Quilen Alleppey Kottayam Iddikki Ernakulam Trichur Palghat Malanpuram	(3) 4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758 3,043	Mode \$\frac{1}{65}\$ (4) 4,795 1,617 3,249 2,000 261 2,391 2,925 1,107 776 3,170	(5) 5,125 1,737 3,262 2,031 2,623 3,171 1,242 784 3,188	94-4-661 (6) 5,334 1,881 3,579 2,490 2,661 3,692 1,242 1,242 1,242 3,416	POPULAT	peas	± 1974-75 €	9/-5/61 (10) 390 70 96 86 10 154 164 60 96 60 96	817-266 (11) 5,370 1,627 3,255 27,155 27,787 3,304 1,121 794 3,163 1,765	Total \$\frac{\pi}{5}\$ (12) 5,225 1,687 3,370 2,136 271 2,570 3,104 1,192 872 3,255 1,936	(13) 5,565 1,807 3,383 2,167 271 2,802 3,360 1,327 880 3,273 2,009	92.5 (14) 5,724 1,951 3,675 2,576 271 2,815 3,856 1,302 892 3,476 2,312		
(1) 1 2 3 4 5 6	(2) Trivandrum Quilen Alleppoy Kottayam Iddikki Ernakulam Trichur Paighat Malappuram Kozhikode Cannanore	(3) 4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758	Mode \$\frac{1}{5}\$ (4) 4,795 1,617 3,249 2,000 261 2,391 2,925 1,107 776	(5) 5,125 1,737 3,262 2,031 261 2,623 3,171 1,242 784	91-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	27-266 (7) 430 96-186 10-179-154 50-36-60-101	Indige Local Section 1991 136 10 179 179 179 85 96 85 121	(9) 440 70 121 136 10 179 189 85 96 85 121	9/2561 (10) 390 70 96 86 10 154 164 60 96 96	(11) 5,370 1,627 3,255 2,155 2,787 3,304 1,121 794 3,163	(12) 5,225 1,687 3,370 2,136 271 2,570 3,104 1,192 3,255	(13) 5,565 1,807 3,383 2,167 271 2,802 3,360 1,327 880 3,273	(14) 5,724 1,951 3,675 2,576 271 2,815 3,856 1,302 892 3,476		
(1) 1 2 3 4 5 6 7 8 9 10	(2) Trivandrum Quilen Alleppoy Kottayam Iddikki Rrnakulam Trichur Palghat Malappuram Kozhikode Gannanote Sratts	(3) 4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758 3,043 1,664	Mode \$\frac{1}{66}\$ (4) 4,795 1,617 3,249 2,000 261 2,925 1,107 776 3,170 1,815	(5) 5,125 1,737 3,262 2,031 261 2,623 3,171 1,242 784 3,188 1,888	92-3-66 (6) 5,334 1,881 3,579 2,490 2,661 3,692 1,242 796 3,416 2,216 27,568	\$2 (7) 430 70 96 186 10 179 154 50 60 101 1,372	Indige 10 179 179 85 96 85 121 1,512 1	(9) 440 70 121 136 10 179 189 85 96 85 121 532 1	91-561 (10) 390 70 96 86 10 154 164 60 96 60 96	(11) 5,370 1,627 3,255 2,155 275 2,787 3,304 1,121 794 3,163 1,765	(12) 5,225 1,687 3,370 2,136 1,271 2,570 3,104 1,192 872 3,255 1,936 25,618	(13) 5,565 1,807 3,383 2,167 271 2,802 3,360 1,327 880 3,273 2,009 26,844	(14) 5,724 1,951 3,675 2,576 2,71 2,815 3,856 1,302 892 3,476 2,312		
(1) 1 2 3 4 5 6 7 8 9	(2) Trivandrum Quilen Alleppoy Kottayam Iddikki Rrnakulam Trichur Palghat Malappuram Kozhikode Gannanote Sratts	(3) 4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758 3,043 1,664	Mod \$\frac{1}{60}\$ (4) 4,795 1,617 3,249 2,000 261 2,391 2,925 1,107 776 3,170 1,815 24,106	(5) 5,125 1,737 3,262 2,031 261 2,623 3,171 1,242 784 3,188 1,888	92-3-66 (6) 5,334 1,881 3,579 2,490 2,661 3,692 1,242 796 3,416 2,216 27,568	\$2 (7) 430 70 96 186 10 179 154 50 60 101 1,372	Indige \$\frac{1}{2}\f	(9) 440 70 121 136 10 179 189 85 96 85 121 532 1	91-561 (10) 390 70 96 86 10 154 164 60 96 60 96	(11) 5,370 1,627 3,255 2,155 275 2,787 3,304 1,121 794 3,163 1,765	(12) 5,225 1,687 3,370 2,136 271 2,570 3,104 1,192 872 3,255 1,936 25,618	(13) 5,565 1,807 3,383 2,167 2,71 2,802 3,360 1,327 880 3,273 2,009 26,844	(14) 5,724 1,951 3,675 2,576 271 2,815 3,856 1,302 892 3,476 2,312 28,850		
(1) 1 2 3 4 5 6 7 8 9 10	(2) Trivandrum Quilen Alleppoy Kottayam Iddikki Rrnakulam Trichur Palghat Malappuram Kozhikode Gannanote Sratts	(3) 4,940 1,557 3,159 1,969 265 2,608 3,150 1,071 758 3,043 1,664	Mod \$\frac{1}{60}\$ (4) 4,795 1,617 3,249 2,000 261 2,391 2,925 1,107 776 3,170 1,815 24,106	(5) 5,125 1,737 3,262 2,031 2,623 3,171 1,242 784 3,188 1,888	92-3-66 (6) 5,334 1,881 3,579 2,490 2,661 3,692 1,242 796 3,416 2,216 27,568	\$2 (7) 430 70 96 186 10 179 154 50 60 101 1,372	Indige \$\frac{1}{2}\f	(9) 440 70 121 136 10 179 189 85 96 85 121 532 1,532	91-561 (10) 390 70 96 86 10 154 164 60 96 60 96	(11) 5,370 1,627 3,255 2,155 275 2,787 3,304 1,121 794 3,163 1,765	(12) 5,225 1,687 3,700 2,136 271 2,570 3,104 1,192 3,255 1,936 25,618 77 (24) 152 134 152 134 143 143 143 143 143 144 156	(13) 5,565 1,807 3,383 2,167 271 2,802 3,360 1,327 880 3,273 2,009 26,844	(14) 5,724 1,951 3,675 2,576 2,71 2,815 3,856 1,302 892 3,476 2,312		

PER CAPITA EXPENDITURE ON MEDICINE AND PUBLIC HEALTH (Rs.)

St. No.	State	1968-69 (Accounts)	1970-71 (Accounts)	1972-73 (Accounts)	1973-74 (Accounts)	1974-75 (Revised estimate)	1975-76 (Budget estimate)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Andhrapradesh	4.2	5.9	6.51	7.99	9.54	10.09
2	Assam	4.6	5.0	5.77	7.17	8.24	8.62
3	Bihar	2.1	2.0	N.A.	4.70	5.63	6.16
4	Gujarat	4.7	7.5	N.A.	11.44	12.18	12.39
5	Harvana	4.2	7.3	N.A.	252 223	13.26	14.07
6	Jammu and Kashmir	8.5	9.9	18.77	22.11	21.35	22.62
7	Kerala	6.8	7.1	12.08	14.68	14.50	15.94
8	Madhya Pradesh	3.9 5.3	4.7	7:41 11:52	8.38	9.05 13.64	9.22 14.11
9	Maharashtra	4.2	7.7 5.4	9.52	9.95	11.25	13.20
10	Karnataka	3.9	4.9	6.79	7.43	8.19	7.88
11	Orissa Punjab	5.7	7.2	11.52	14.30	14.37	14.55
12 13	Rajasthan	6.3	9-1	11.67	13.27	13.95	13.41
14	Tamil Nadu	5.0	9·1 7.9	N.A.		11.05	11.42
15	Uttar Pradesh	2.9	3.4	5.09	6.11	6.24	6.16
16	West Bengal	2.9 5.7	6.1	8.91	9.78	10.15	11.80
	ALL STATE AVERAGE	4.9	6.3	9.63	10.72	11.14	11.98
			_	-	-		The state of the s

XVI. Trade

From remote times Kerala had trade relations with the countries in almost all parts of the world. The hill products and spices of Kerala have attracted traders from all parts of the world. The main products of the State are pepper, ginger, cardamom, lemongrass oil, rubber, cashew, tea, coffee and coir products. Marine products of Kerala have also good demand in foreign markets. Some of the products of Kerala enjoy monopoly position in India's economy.

Sea borne trade: The Port of Cochin is an important centre for coastal as well as foreign trade. The other two intermediate ports are Alleppey and Kozhikode. In addition there

are 10 minor ports in Kerala. The volume of traffic handled at these ports increased considerably during recent years. The main commodities exported through Cochin Port are pepper, ginger, marine products, tea, coffee, cardamom, lemongrass oil, cashew, kernels, coir, coir products, timber, etc. The important commodities exported through the Port of Kozhikode are bricks and tiles, coconut, tea, coffee, coir and coir products, pepper, ginger and timber. Alleppey Port is important for the export of coir, coir products, pepper, ginger and turmeric.

The important minor ports are Trivandrum, Quilon, Ponnani, Badagara, Tellicherry, Azhikkal, Cannanore, Calicut, Beypore and Kasargode.

Table 16.1
Foreign exports from the ports of Kerala (value in lakib)

St. No.	Commodity	Unit	195	57-58	19	60-61	19	65-66	1970	0-71
			Quantity	Value Rs.	Quantity	Value Rs.	Quantity	Value Rs.	Quantity	Valui
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
- 1	Bricks and tiles	1000 Nos.	21,378	28.18	27,382	43.18	19.	15000	944	0.8
2	Cardamom	Otl.	2,551	56.73	3,696	76.97	2,056	61.83	5,154.44	313.45
3	Cashew kernels	Qtl. M.T.	36,325	1,368-45	36,394	1,693.57	48,626	2,602.45	47,961	4,958.21
4	Cashew shell liquid	1000 litre	4,372	35.81	5,183	48.53	12,250	171.67	5,618	65.05
5	Coffee	M.T.	1.656	86,93	9,490	327.26	9,679	443.38	17,631	1,346.68
6	Coir yarn and fibre	1101.70	51,463	484.49	47,679	516.44	46,409	657.65	28,393	653.54
7	Coir products	The state of the s	17,609	266,66	17,748	301.33	17,080	361.24	16,457	523.45
8	Cordage and rope of veget- able fibre		113	0.96	112	1.22	33	0.57	881	22.58
9	Fish and prawns	700	6,018	149.80	5,067	191.04	10,359	735.81	23,802	2,677.43
10	Ginger		2,435	22,60	4,513	66.84	2,684	82.83	1,829	129.28
11	Hides and skins	4	20	2.06	151	20.31	14	3.01	133	36.24
12	Jute and jute products	**	489	12.42	365	10.38	80	2.29	16	1-35
13	Metals, minerals and ores	**	333,759	212.51	182,370	106.66	30,933	29.94	15,262	79.47
14	Manioc meals		12,071	27.36	28,740	61.36	13	0.11	391	4.56
15	Lemongrass oil	100 litre	1,460	138.41	1.145	200.76	296	38.43	173	67.55
16	Sandalwood oil	D. Carlotte	9	8.21	11	20.73	13	18-92	39	8.48
17	Other vegetable oil	**	42	1.20	8	3.94	68	3.42	103	6.26
18	Oil cake	M.T.	731	1.58	1,477	4.75	1,578	5.91	3,753	22.80
19	Pepper		10,956	224.88	15,921	723.90	24,477	1.027.37	16.704	1,393.23
20	Rubber manufactures		10,500	0.39	10	0.40	N.A.	16.19		13.38
	Tea	31	41,275	2,281,50	36,529	2,069.83	45,254	2,209.63	33,531	2,338.92
21 22 23 24	Turmeric	21	904	7.00	1,069	15.00	2,012	29.12	1 347	37.34
24	Rose wood	Value	The second second	88.83	1,000	173.96	7,1	131.05	100	436,50
25	Other kinds of wood			5.10		9.27		7,28		13.12
	Wood manufactures		Victoria S	0.58	1.302	0.58	- 40	3.82		14.57
25 26	Others	"		245.95		283.70		361.54		1937.64
	TOTAL		ALL THE	5,758.59	**	6,971.91		9,005.46		16,101/16
						-			Contract of the last	

St. No.	Commodity	ty Unit		1971-72 1972-73			1973-74		1974-75	
31. 740.	Community	121020	Quantity	Volue	Quantity	Value Rs.	Quantity	Value Rs.	Quantity	V alue Rs.
775	(2)	(3)	(12)	Rs. (13)	(14)	(15)	(16)	(17)	(18)	(19)
(1)	(2)	12000	(12)	(13)	138	0.38	1000	0.98	1000	0.42
1.	Bricks and tiles	100 Nos.		100.10	4,194.95		5,263	333.86	5,369	449.11
2.	Cardamom	Qtl.	5,537.20			5,859.96	56,406	9,183.39	56,797	10,579.76
3.	Cashew kernels	M.T.	64,588	6,620.10	55,365	46.43	3,970	59.03	6,039	145.67
4.	Cashew shell liquid	1000 Litre	4,109	46.51	3,975	1,761.49	41,791	4,050.13	31,710	2,919.29
5.	Coffee	M.T.	19,423	1,166.52	24,913	781.97	2,171	908.29	22,449	838.57
6.	Coir yarn and fibre	21	25,074	663.46	30,836	651.95	17,589	833.40	15,788	900.18
7.	Coir products	11	18,886	699.46	15,821		1,424	45.45	1,228	51.81
8.	Cordage and rope of veget able fibre	- "	825	22.53	907	25.21		5,985.53	26,485	4,171.90
9.	Fish and prawns	,,	25,320	4,100.33	23,825	3,859.04	31,302	206.72	3,181	242.22
10.	Ginger	**	4,560	164.01	4,159	154-22	3,624	55.75	118	101.20
11.	Hides and skins	,,,	21	5.57	235	176.00	177		13	1.31
12.	Jute and jute products	13	82	0.43	63	0.77	21	1.68	8,208	49.79
13.	Metals, minerals and ores	,,	49,602	183.50	59,775	241.51	29,558	106.67	760	14.88
14.	Manioc meals		393	3.51	351	3.36	779	10.85	15000	154.53
15.	Lemongrass oil	100 litre	243	73.12	279	100.44	360	207.76	244	
16.	Sandalwood oil	33	6	1.59	4	5.32	0.3	0.96	120	1.39
17.	Other vegetable oil		34	2.36	817	35.71	1	2.25	1	5.83
18.	Oil cake	M.T.	7,054	34.80	5,551	45.84	5,041	68-92	480	
19.	Pepper		21,150	1,565.47	21,590	1,582.91	29,298	3,014.94	24,436	3,270.91
20.	Rubber manufactures	,		8.09	- Sweet	24.17	1 100	28.00		55.52
21.	Tea	or Burns	45,694	3,117.77	42,120	2,806.00	46,837	3,330.19	43,065	4,239.21
22.	Turmeric	.,	1,801	50.78	1,272	36.66	2,183	100.13	1,402	63.10
23.	Rosewood	Value		610.59		806.11		1,208.60	4.	442.72
100000000000000000000000000000000000000	Other kinds of wood		Aires P	67.20	9.00	23.85		21.47	**	74.84
24.	The state of the s	21		10.36		26.42	44	108.22		59.23
25.	Wood manufactures	.11		865.51		994.81	3	2,296.55	**	2,184.12
26.	Others		-:-	20,265.76	-	20,266.32		32,169.72		31,017.46
			All Street Co.	(0000)	THE N	Section 1985	16690 1676			

Source: 1. Lirector General of Commercial Intelligence and Statistics, Calcutta.

2. Cochin Chamber of Commerce.

Alleppey Chamber of Commerce.
 Report from the District Statistical Officers, Trivandrum, Quilon, Alleppey and Kozhikode.

XVII. Five Year Plans

Table 17.1 gives the actual plan expendi-ture of the State during the First, Second, Third, Annual and Fourth Plans. The

sectoral distribution of the expenditure are also given in the table. Table 17.2 gives the plan outlay during the Fifth Five Year Plan.

Table 17.1 PLAN EXPENDITURE IN KERALA DURING THE FIRST FOUR PLAN PERIODS (Rs. in lakhs)

OF SERVICE SERVICE	First f	lan	Second	plan	Third 1	olan	Annual	plan	Fourth	plan
	Actual expenditure	Percent-	Actual expenditure	Percent-	Actual expenditure	Percent-	Actual expenditure	Percent-	Actual expenditure	Percent- age
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Agricultural Pro-	248-51	9.6	794-54	9-8	2,585.96	14.2	3,289-85	22.8	4,419-57	13-19
Gramme Community develop- ment and co-ope-			540-47	6-8	1,097-66	6.0	600-37	4-2	1,199-44	3-58
ration Irrigation and power	1,570-62	60-8	3,273-67	40-8	7,634-58	41-9	5,441-91	37-7	14,329·05 *1,140·00	42.77
Industry and mining	50-43	2.0	603-98	7.5	1,437-02	7.9	1,334-99	9.2	2,502-11	7-47
Transport and com-	335-89	12.7	718-31	9.0	1,195-76	6.5	1.066.79	7-4	3,076 · 28	9-18
munication Social services Miscellaneous	383 · 83	14-9	2,019·42 71·39	25·2 0·9	4,170·29 109·72	22·9 0·6	2,660·74 42·72	18·4 0·3	7,765·48 44·07	23·67 0·14
TOTAL STATE	2,589.28	100.0	8,021.78	100-0	18,231-01	100-0	14,437-37	100.0	35,335·00 *1,240·00	100.0

^{*}Represents the plan assistance outside plan ceiling.

Table 17-2 FIFTH FIVE YEAR PLAN-KERALA (STATE PLAN) 1974-75 to 1978-79 (Rs. in lakhs)

		Tentati	pe outlay	1974-75	Account	1975-76 2	Account	1976-77 estima		1977-78 estima	
SI. No.	Sectors	Amount	Percent-	Amount	Percent-	Amount	Percent-	Amount	Percent-	Amount	Percent-
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
I.	Agriculture and allied services	10,745	18-89	1,194·20 *57·53	14-32	1,549·07 *25·86	14-97	2,268.32	18-84	2,600-00	19-19
2.	Co-operation	739	1.30	74-23 *8-44	0.89	97·37 *5·52	0.94	156-74	1-30	178-01	1-31
3.	Irrigation and Power	22,220	39-05	3,408-42 *108-30	40-85	4,279·67 *18·88	41.36	4,527·00 *200·00	38-18	5,550·00 *200·00	40.95
4.	Industry and	6,154	10.82	659·11 *49·82	7-91	1,126·65 *20·34	10.89	1,229·05 *100·00	10.21	1,561-01	11-52
5.	Transport and Communica- tions	4,103	7-20	933·01 *1·95	11-18	699-05	6.76	856-37	7-11	700-00	5-17
6.	Social and com- munity ser- vices	12,159	21.37	1,985·28 *37·17	23.79	2,478-95 *22-42 **16-96	23.96	2,663·67 **49·00	22-12	1,818·86 **70·00	20.80
7.	Economic ser-	220	0.39	31.56	0.38	17·71 •33·58	0-17	38·30 *118·00	0.32	43·00 •150·00	0.32
8.	General services	556	0.98	57-07	0.68	98-17	0.95	230.93	1.92	100.00	0.74
	TOTAL	56,896	100.00	8,342·88 *263·32	100-00	10,346·64 *126·30 **16·96	100-00	12,048·38 *418·00 **49·00	100-00	13,550·88 *350·00 **70·00	100-00

*Outside plan ceiling. **Share of E.S.I. Corporation.

XVIII. Income and Prices

The per capita income and index numbers of prices in Kerala over a period are shown in Tables 18.1 and 18.2.

Table 18-1 PER CAPITA INCOME AT CURRENT PRICES AND CONSTANT PRICES (In rupees)

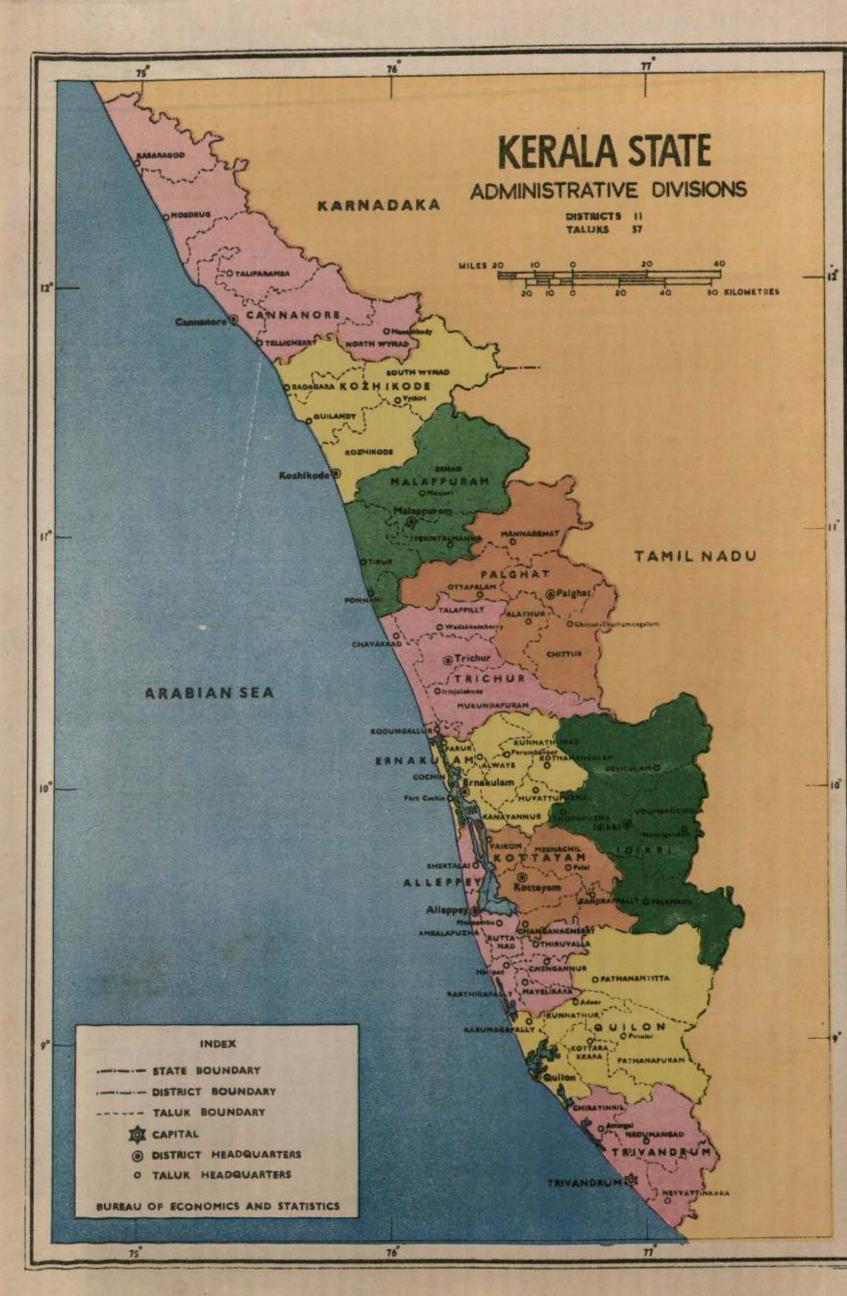
Year	Per capita income at current prices	Per capita income at constant prices
(1)	(2)	(3)
1960-61	259	259
1965-66	380	261
1970-71	584	298
1971-72	573	304
1972-73	647	304
1973-74	800*	304
1974-75	884*	307
1975-76	909*	297

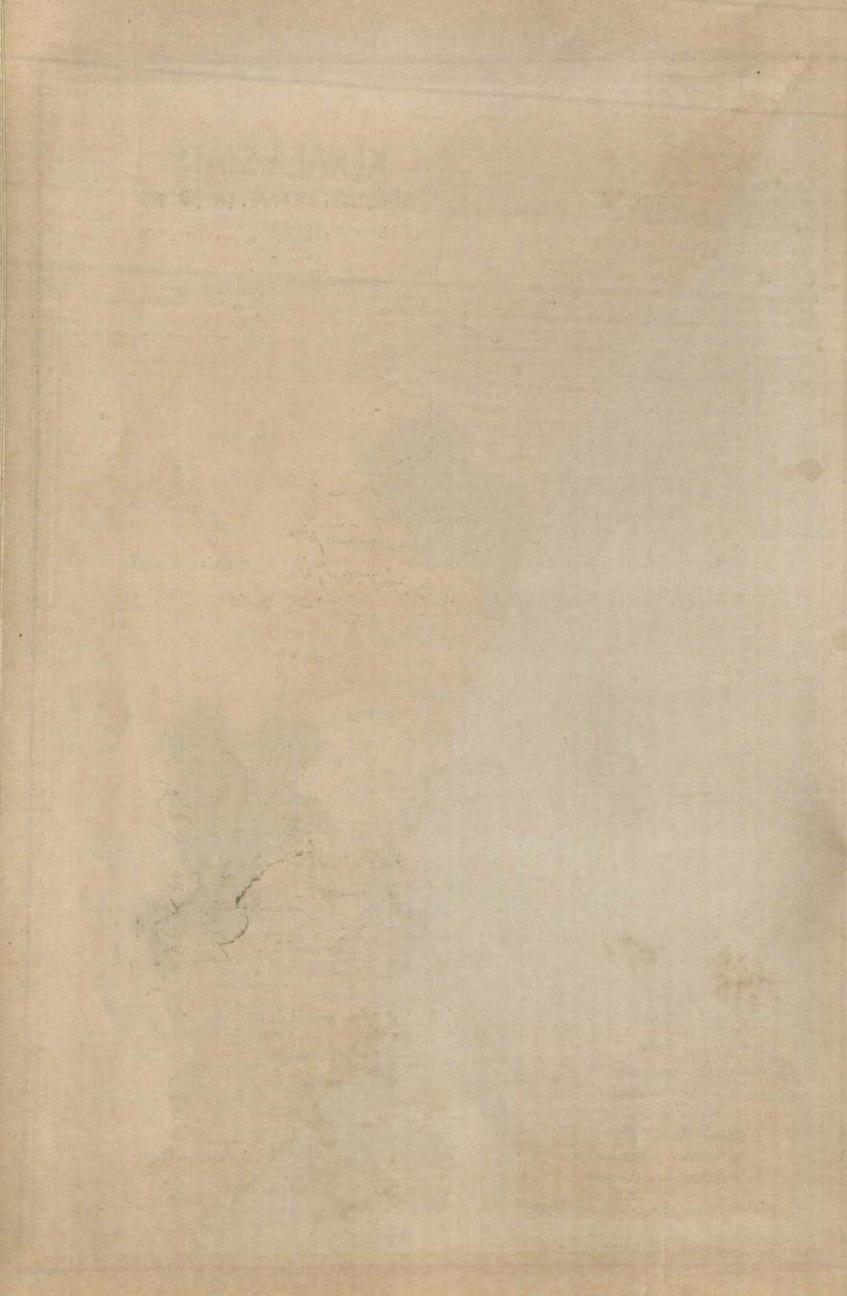
*Provisional.

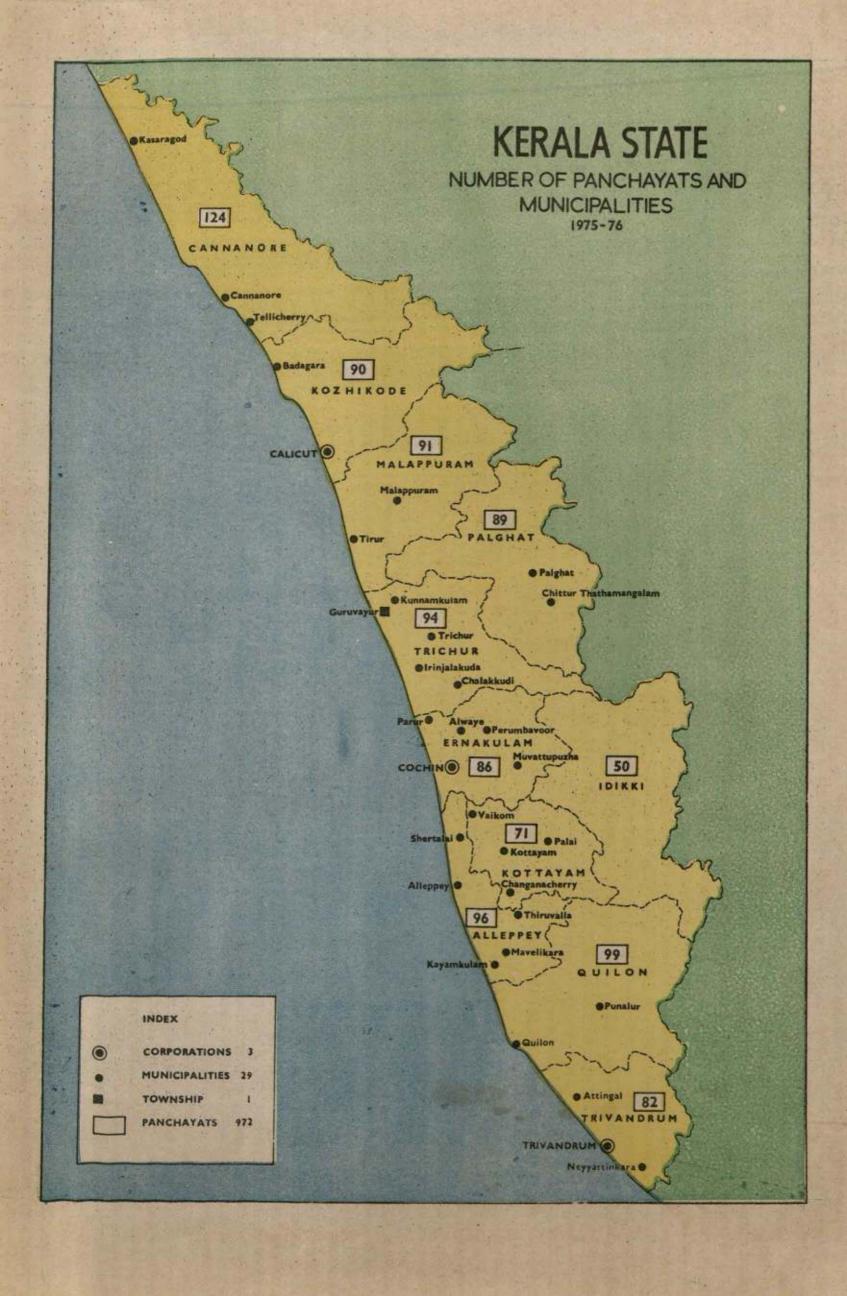
Table 18.2 CONSUMER PRICE INDEX NUMBERS

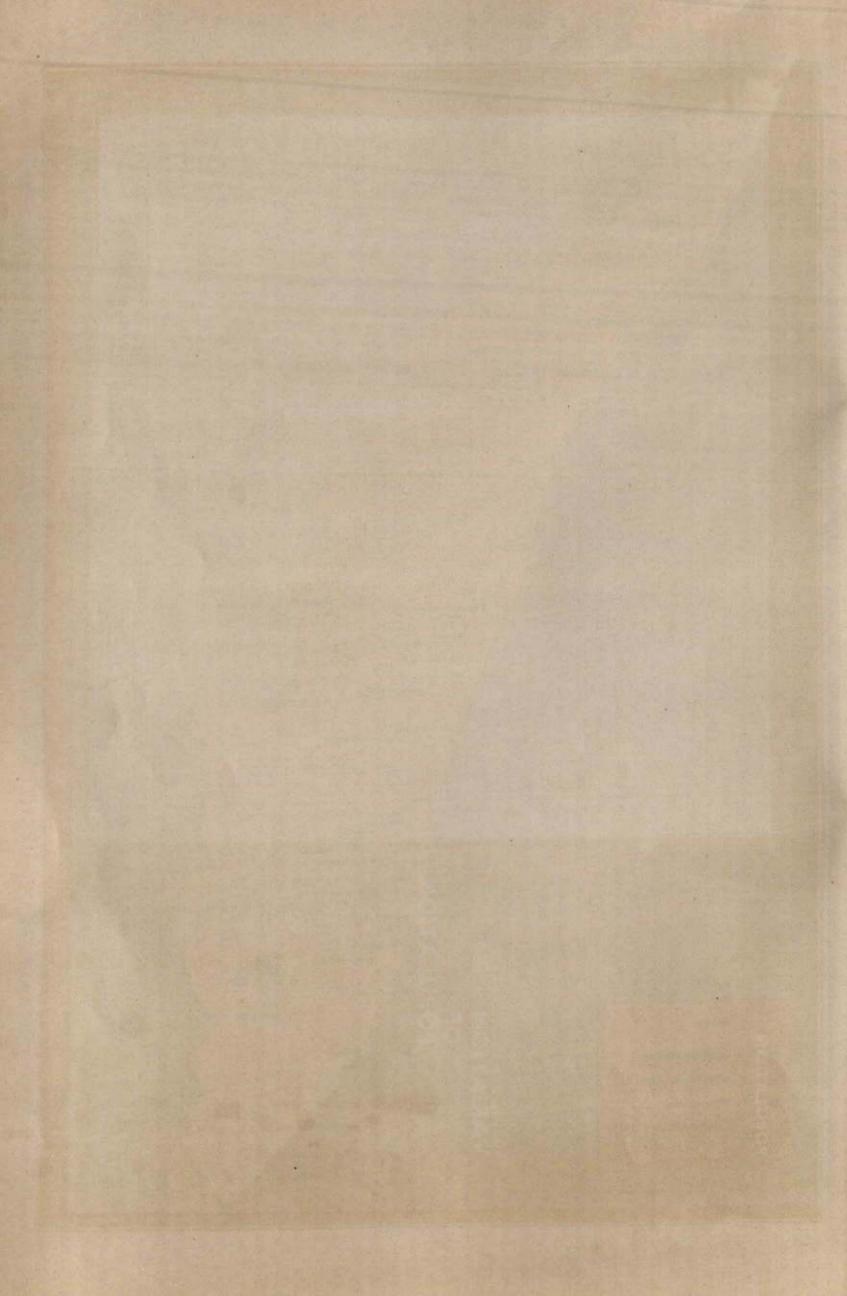
1956		383	
1961		478	
1966		673	
1967		729	
1968		783	
1969		817	
1970		851	
1971		857	
1972	**	909	
1973	a a	1,096	
1974	**	1,442	
1975	- 4	1,573	
1976	**	1,401	

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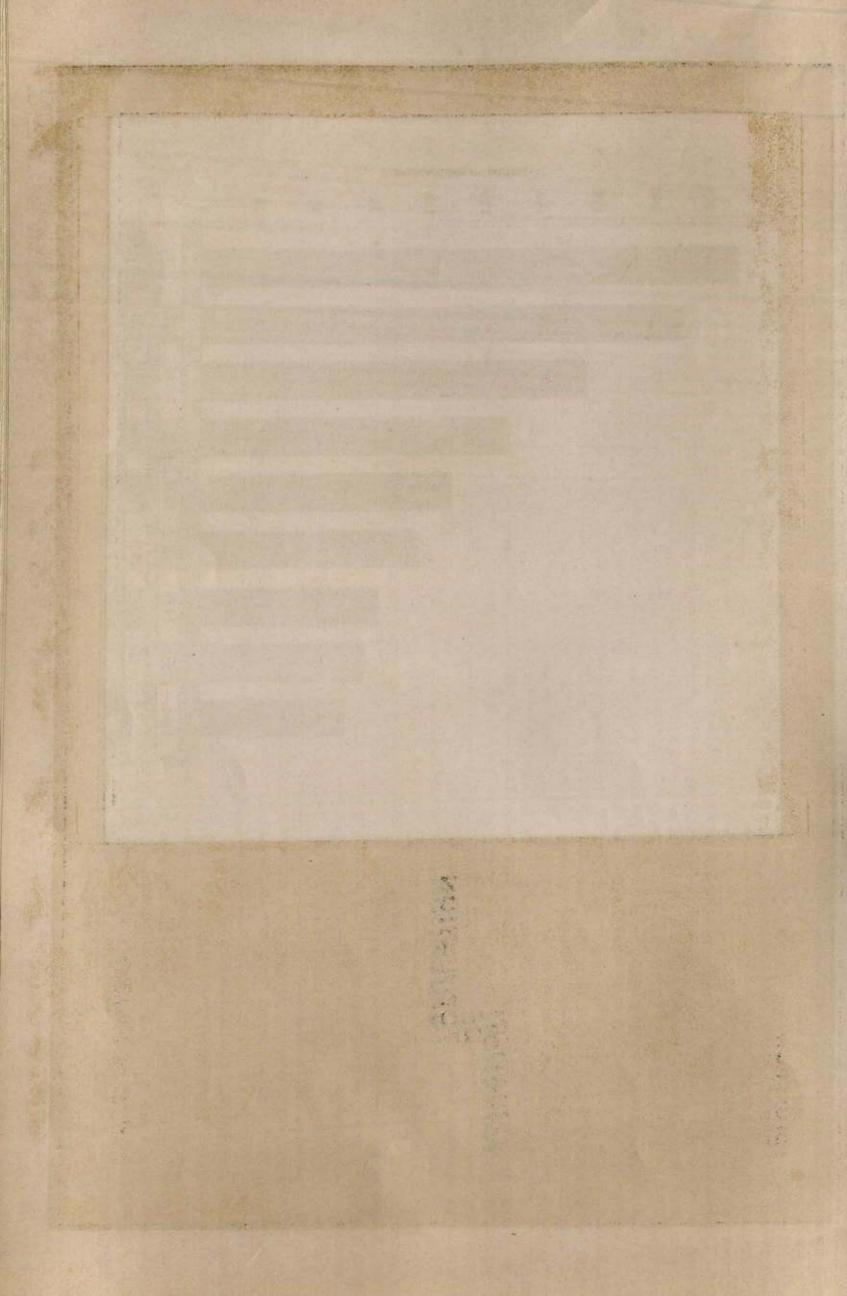


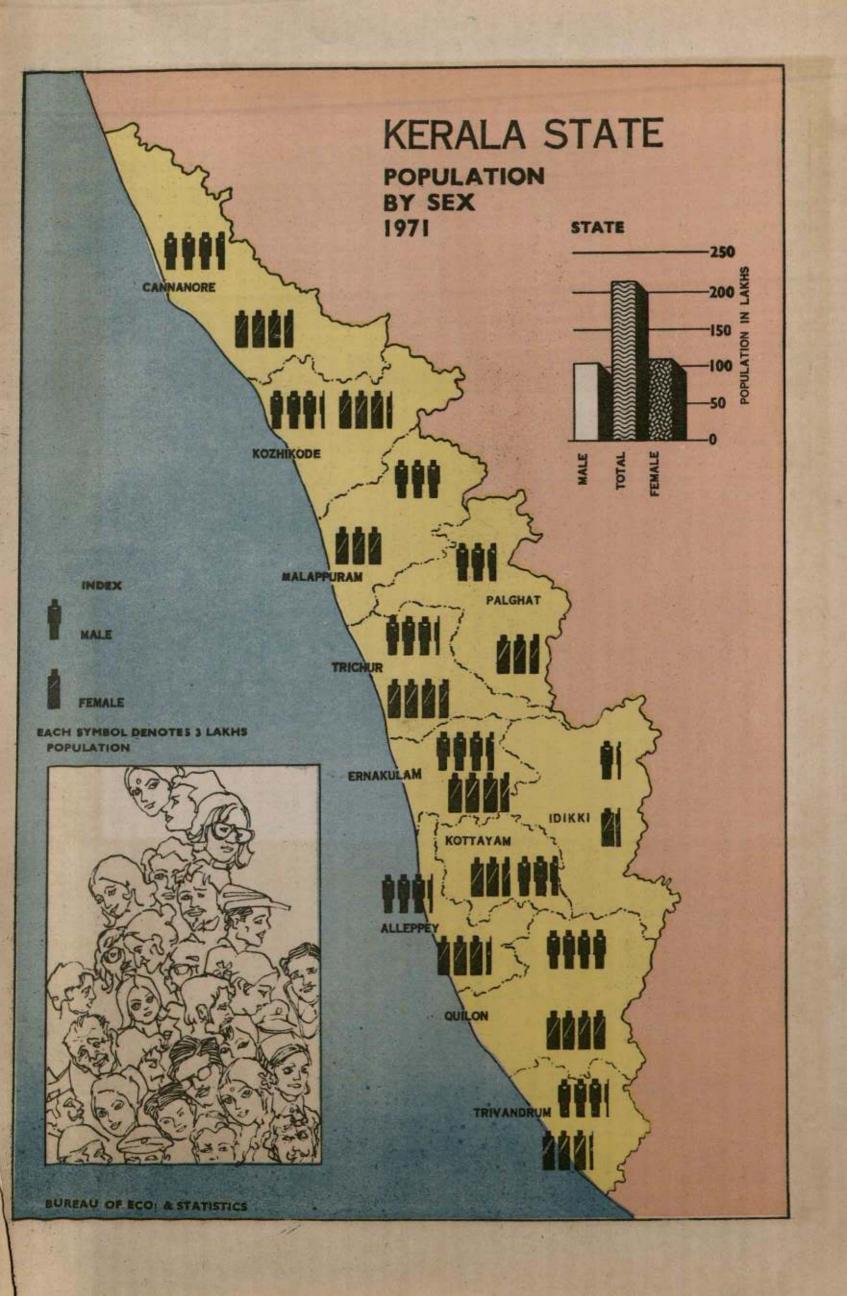


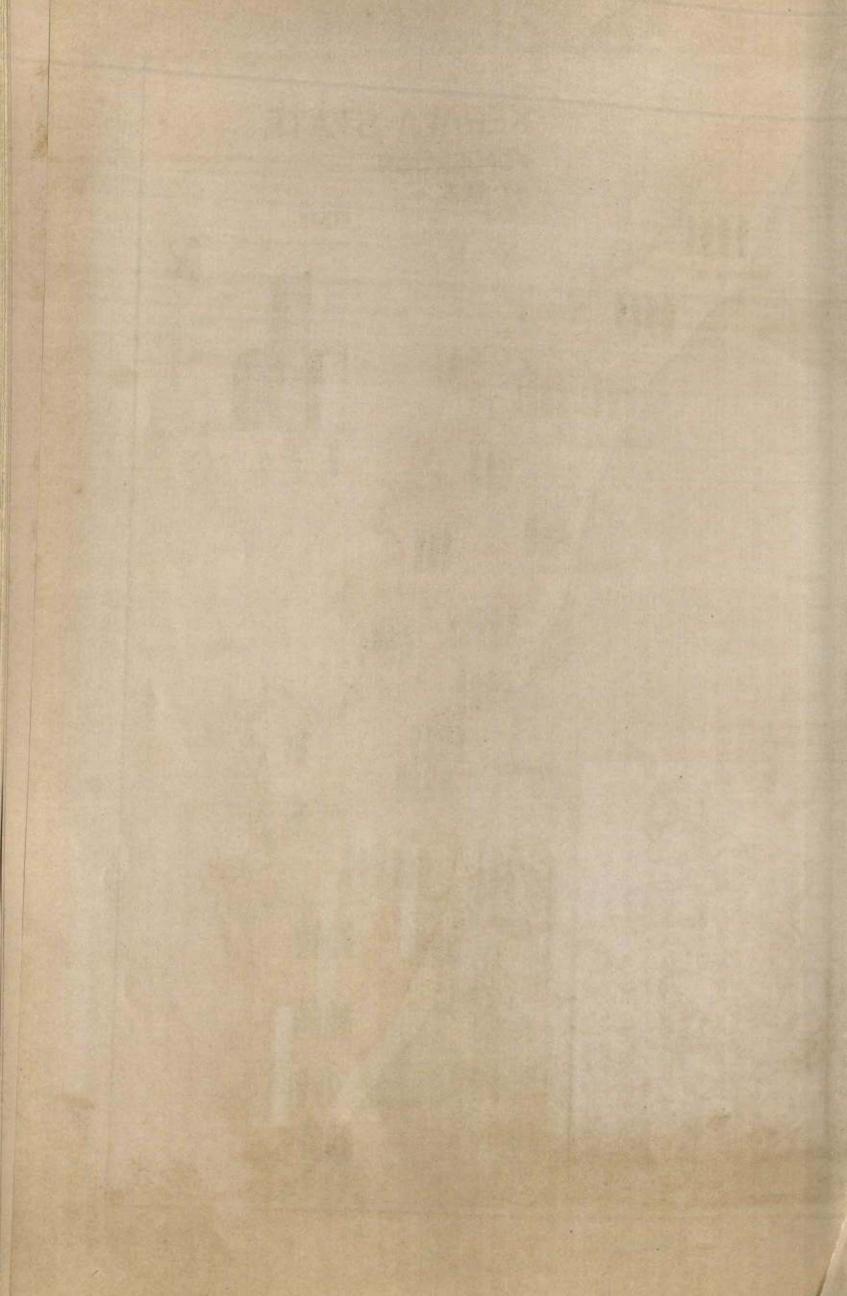


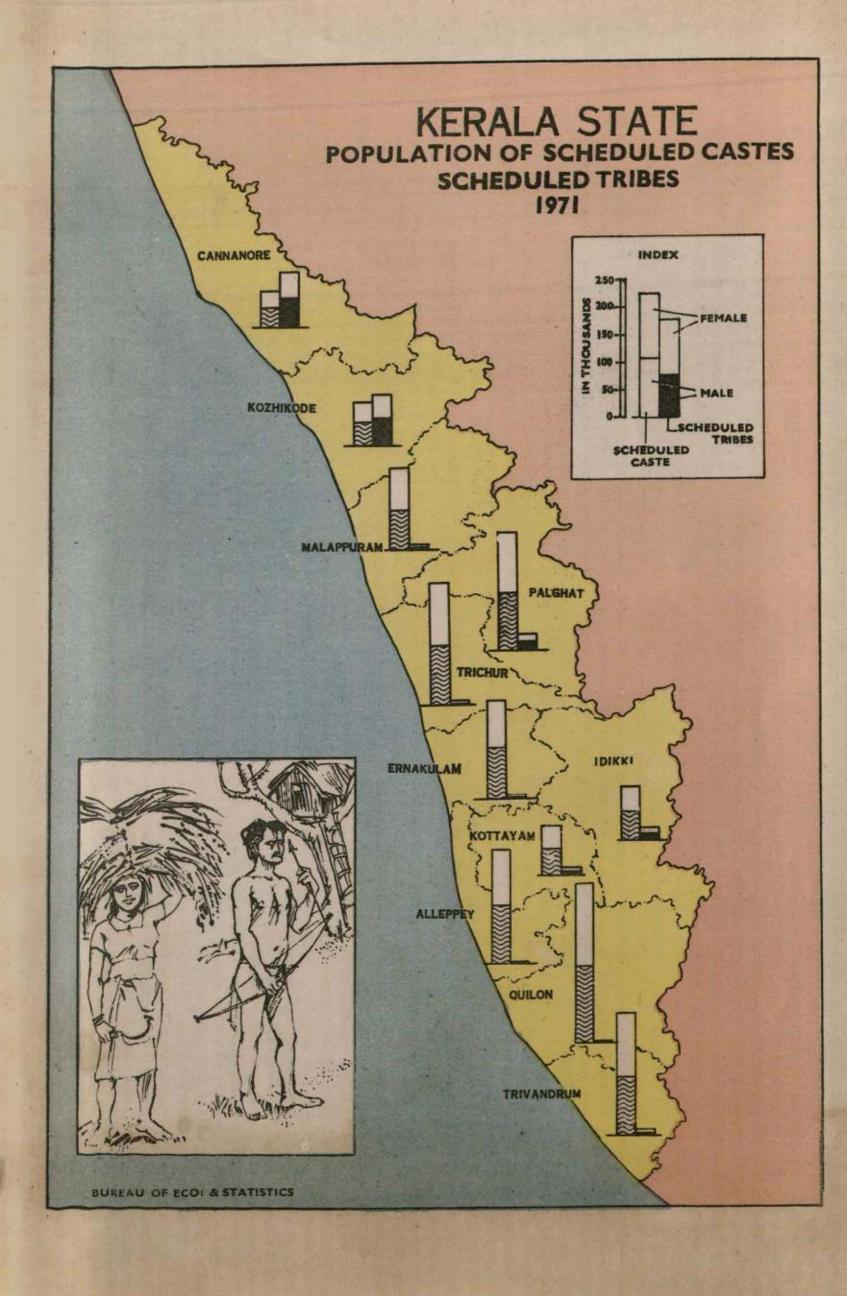
VARIATION

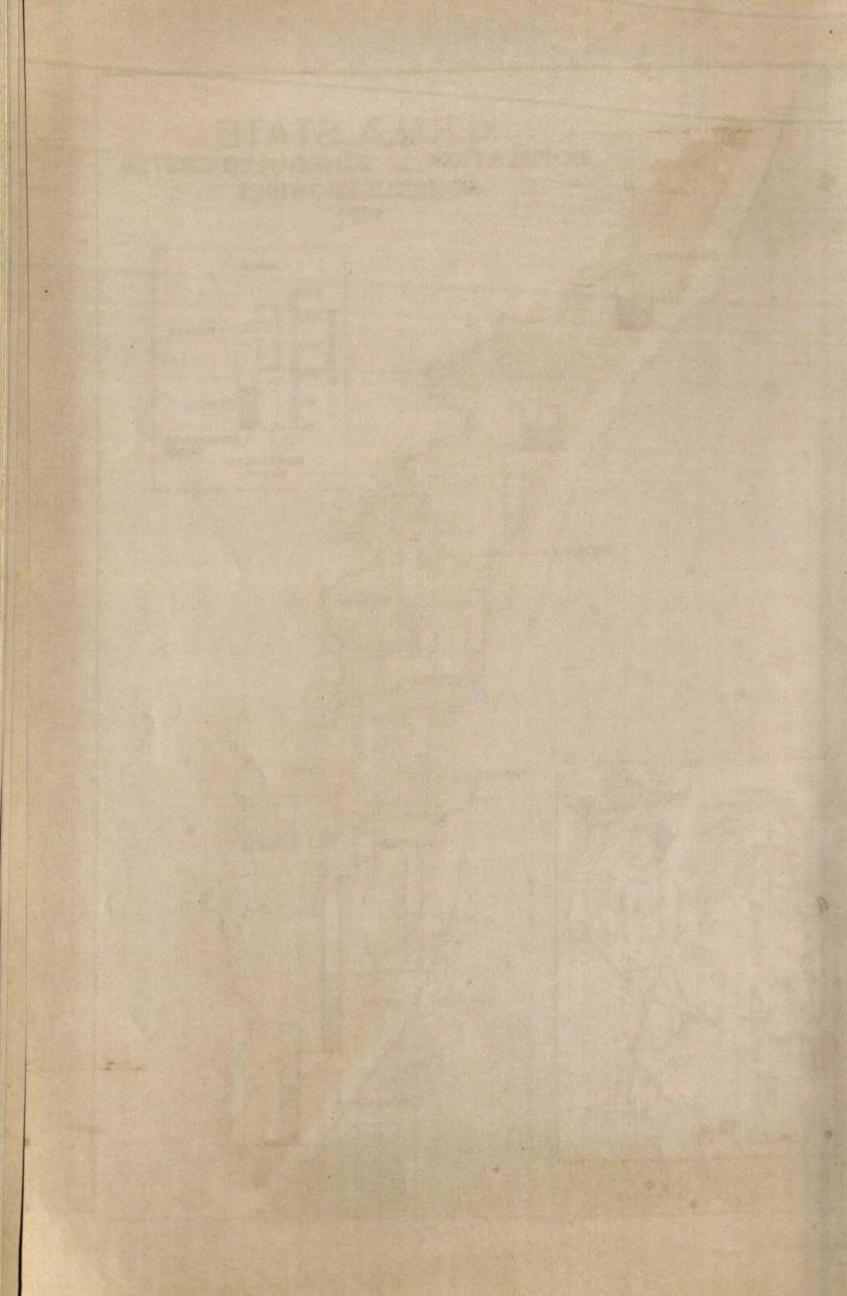
POPULATION

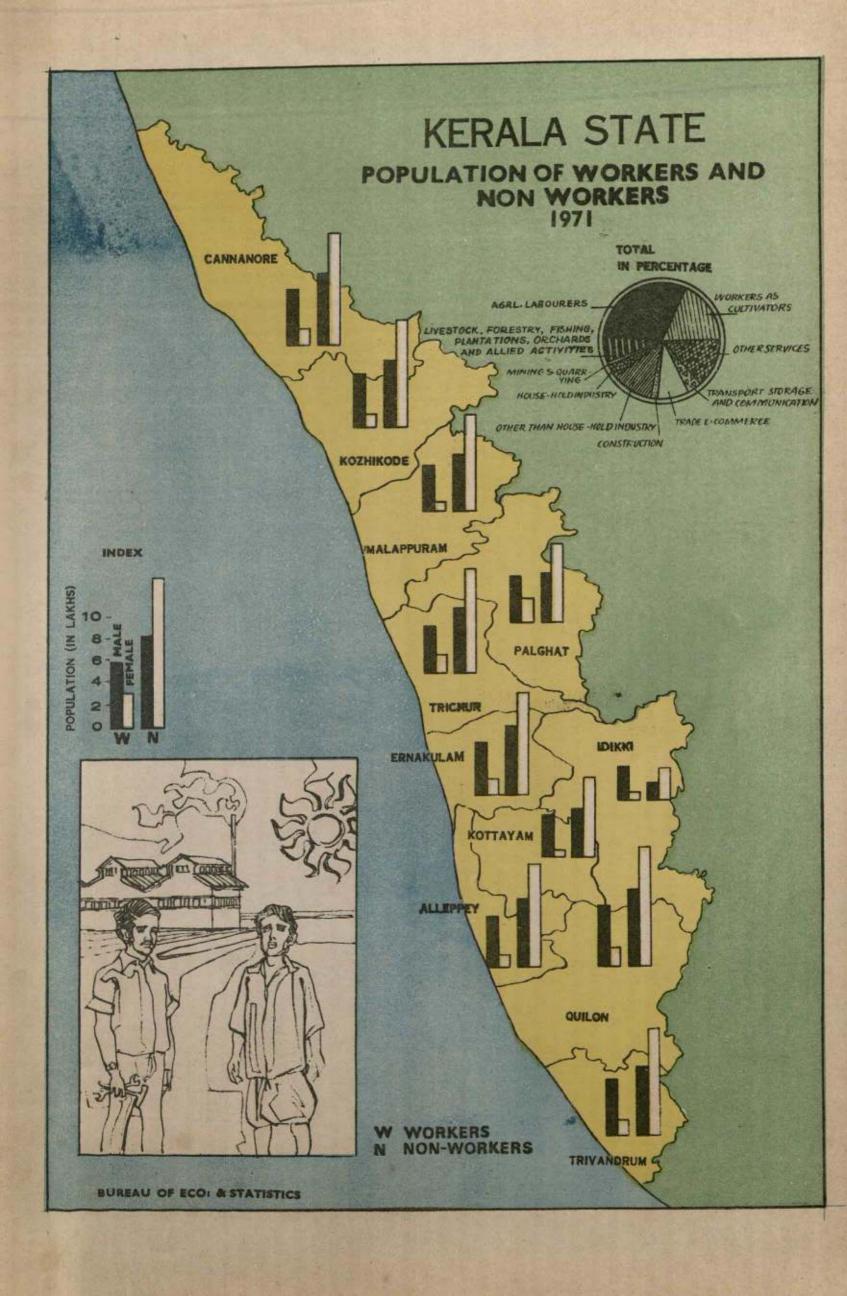




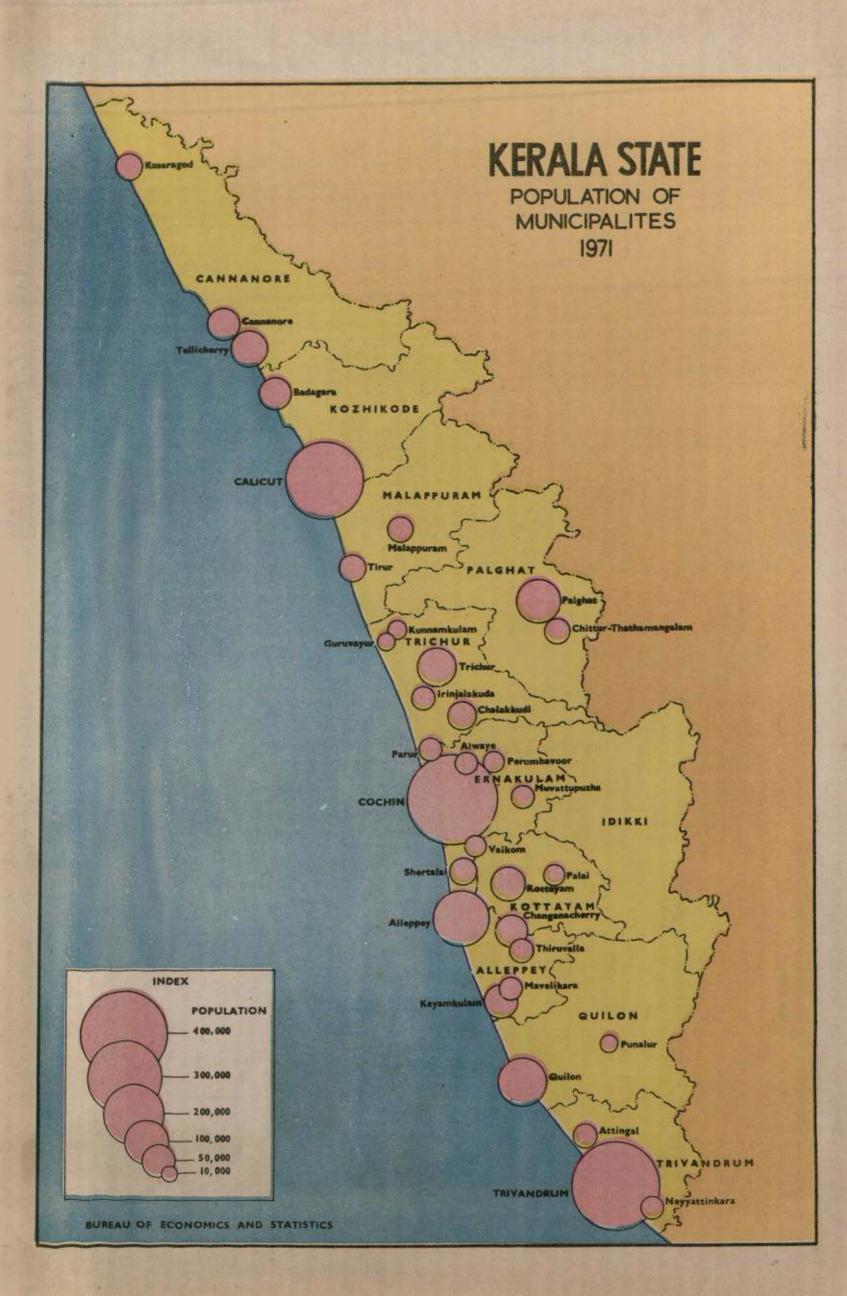




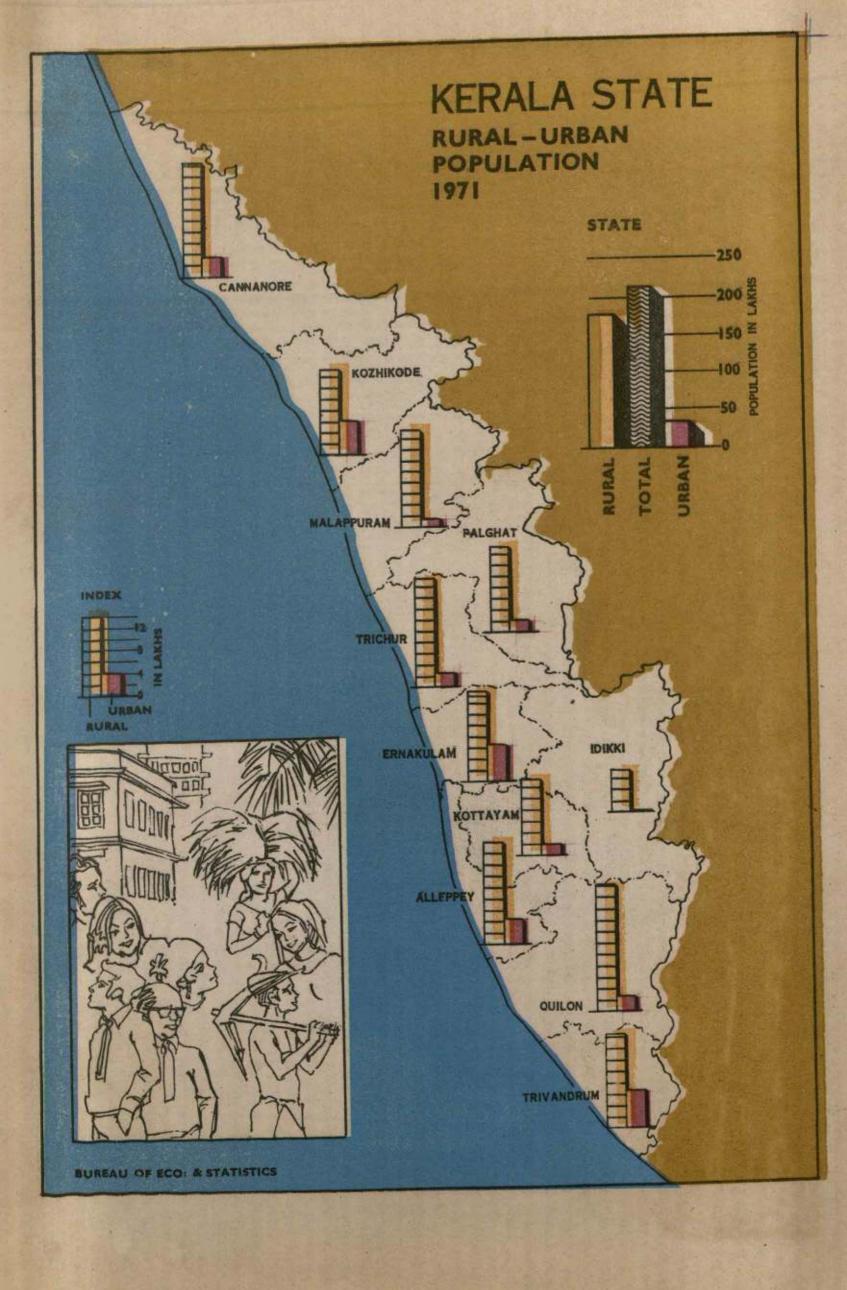




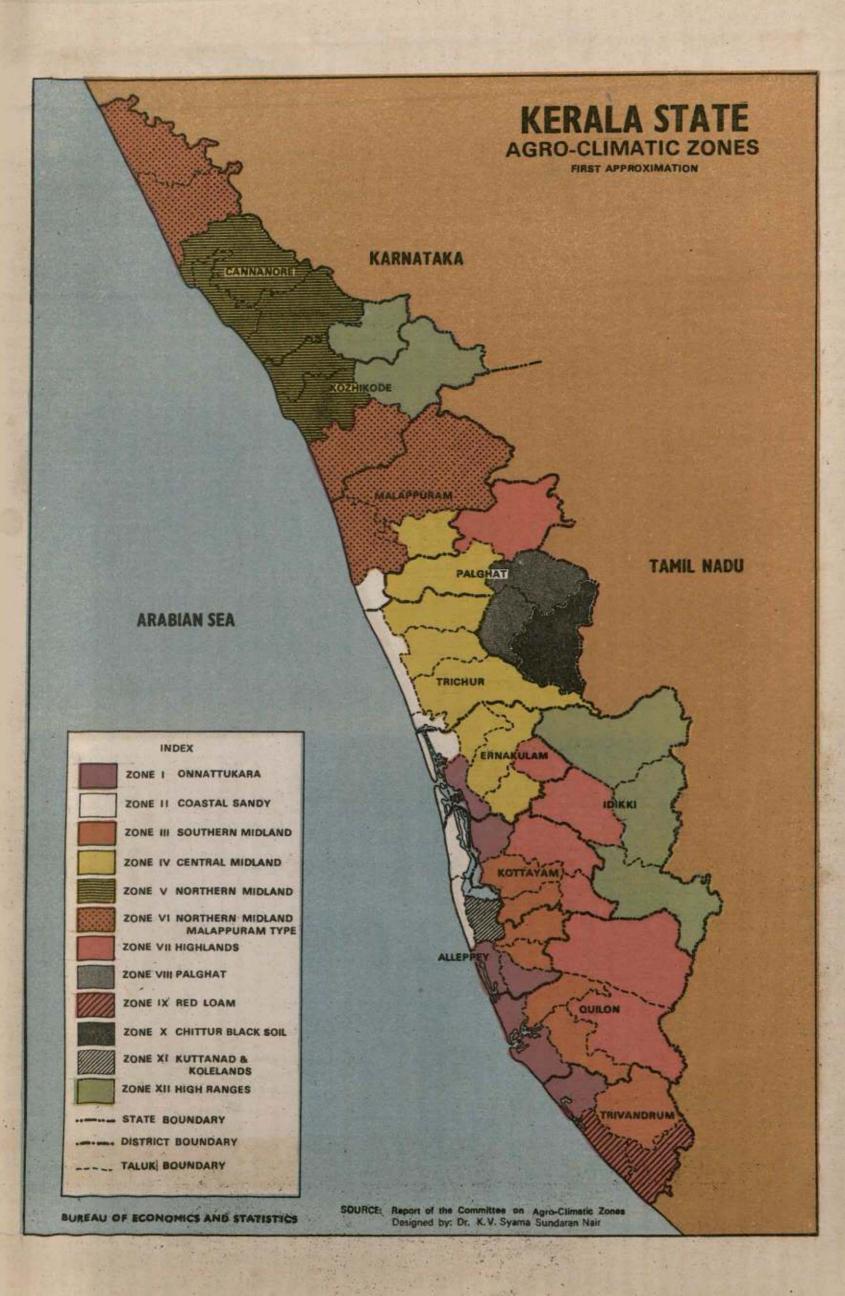




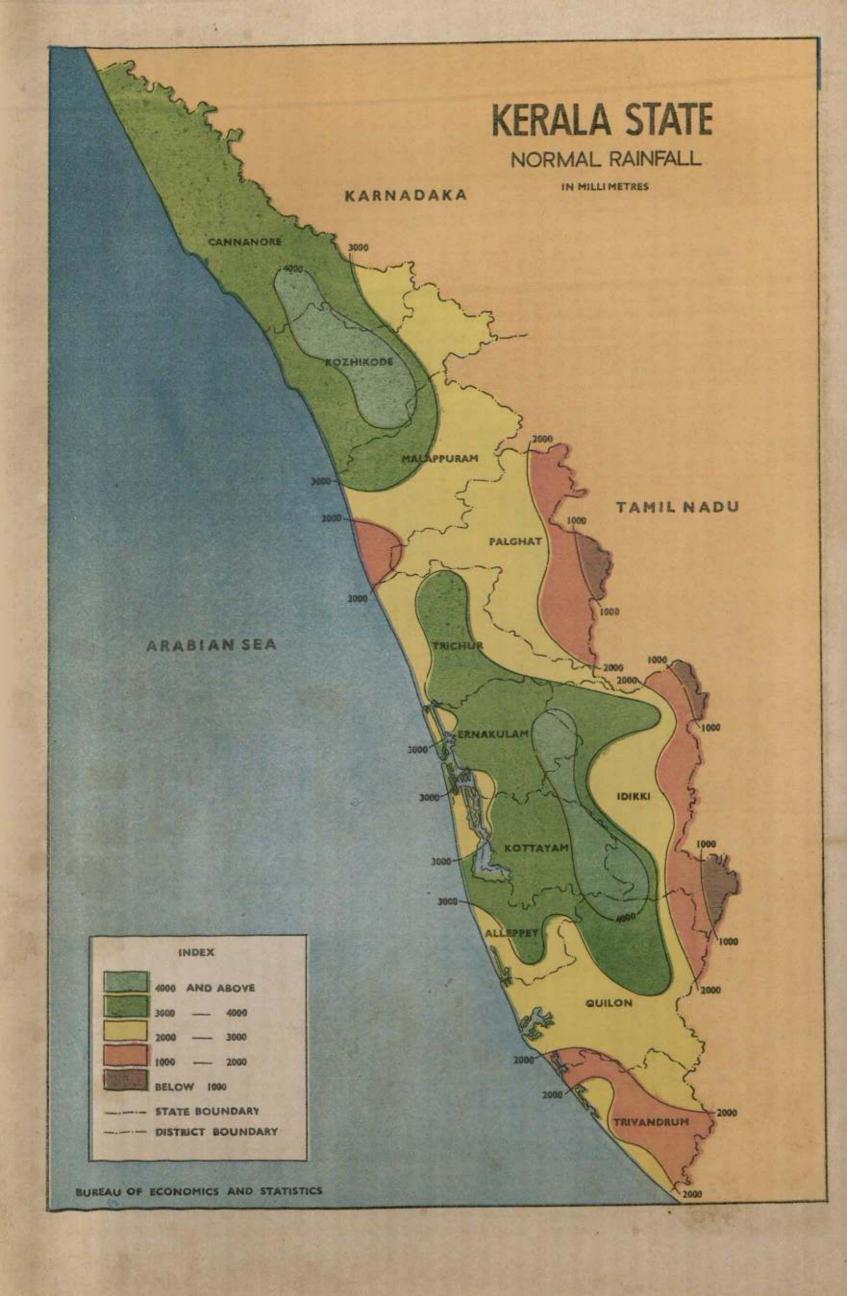


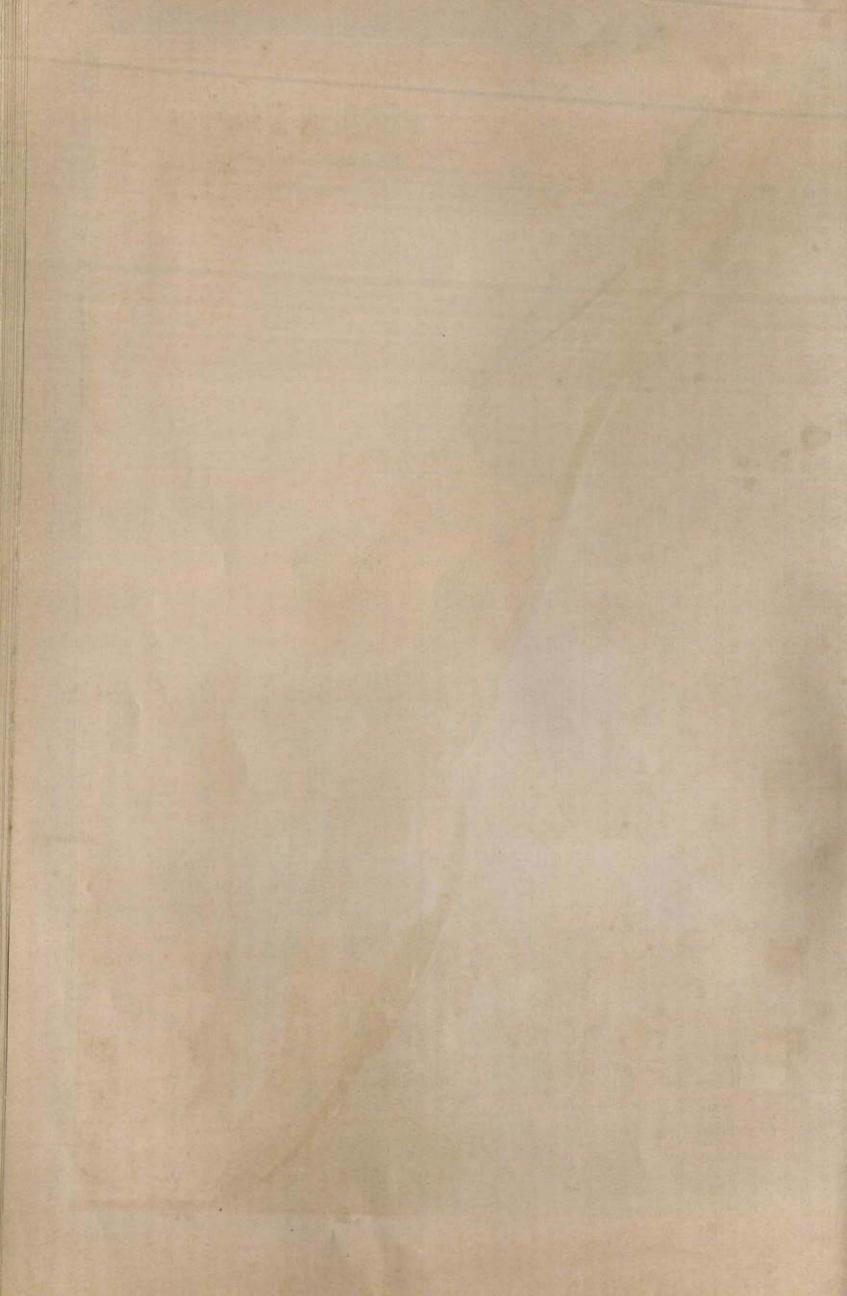


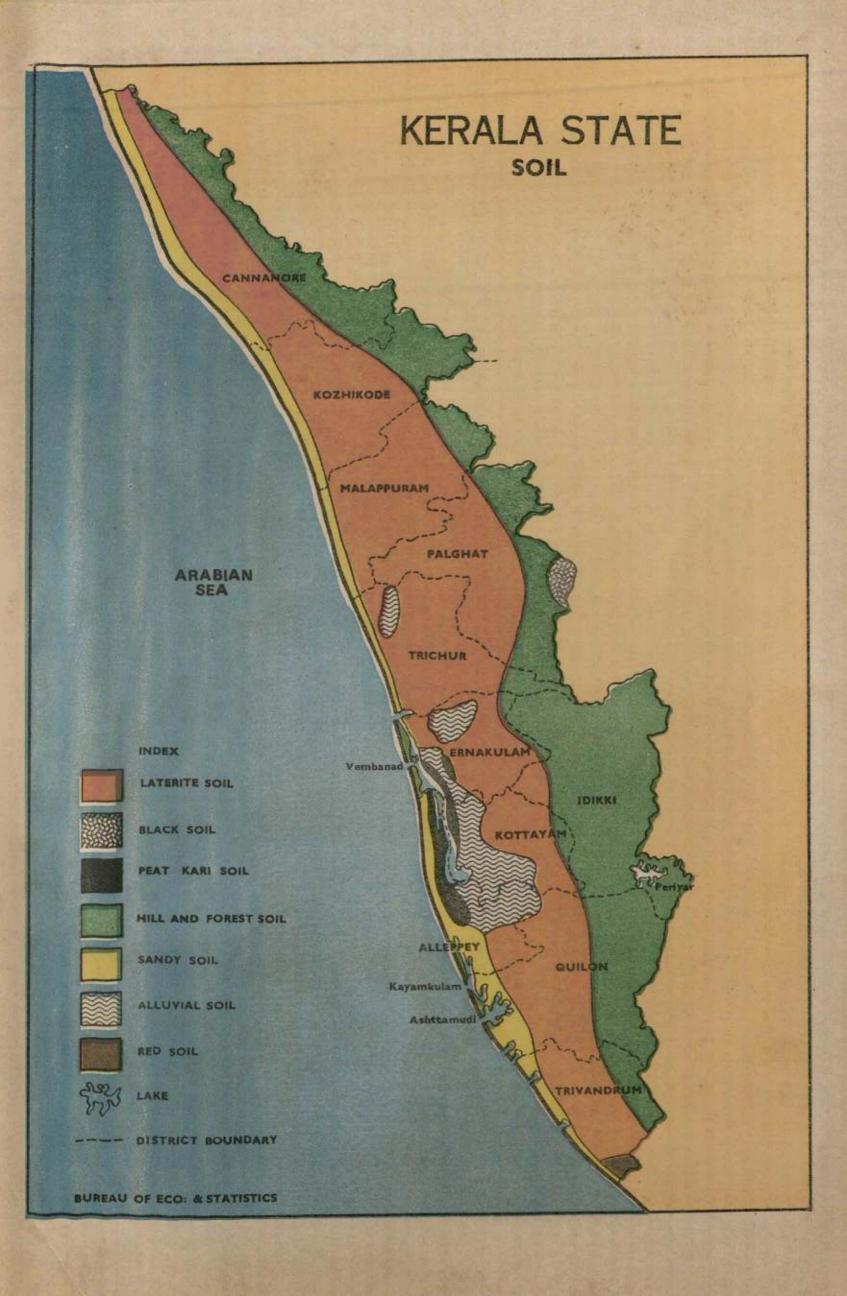


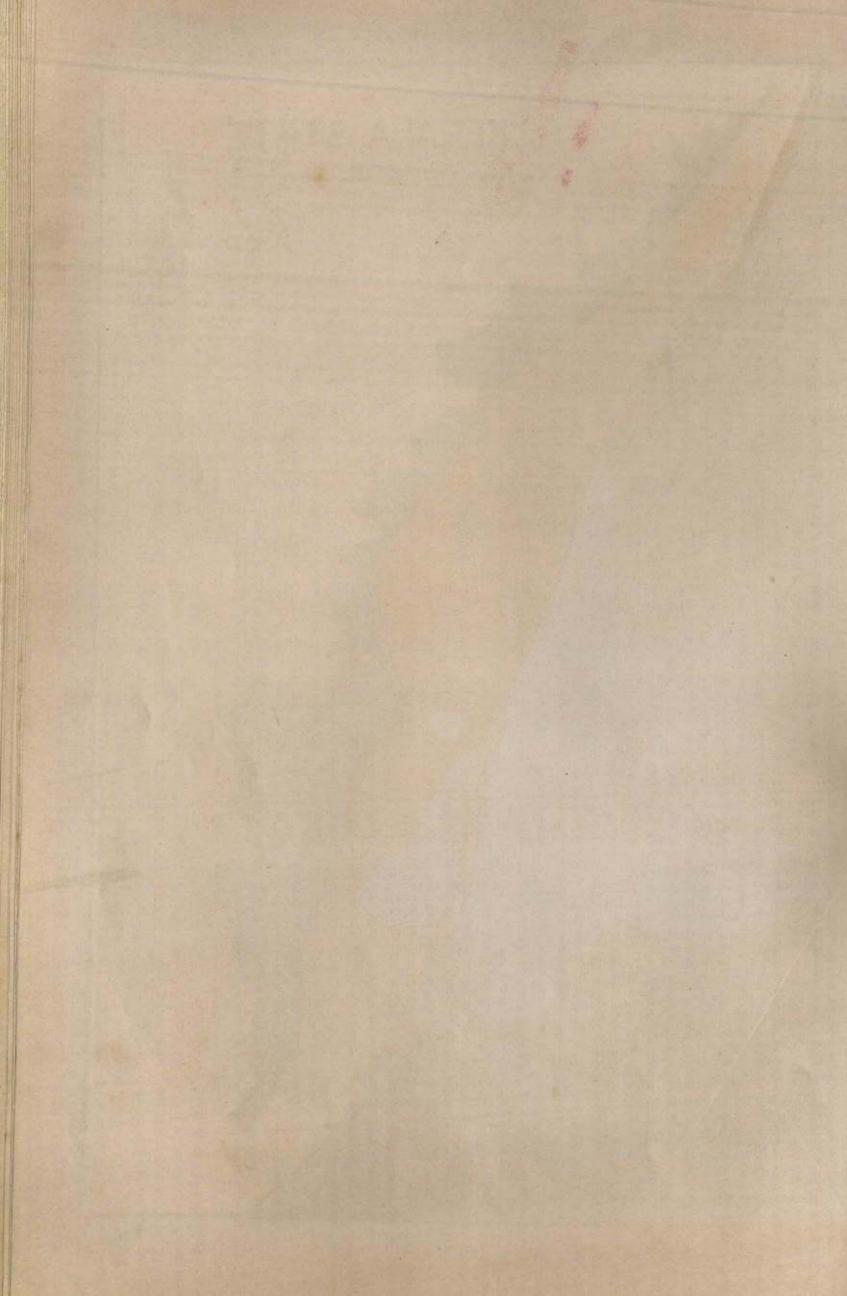


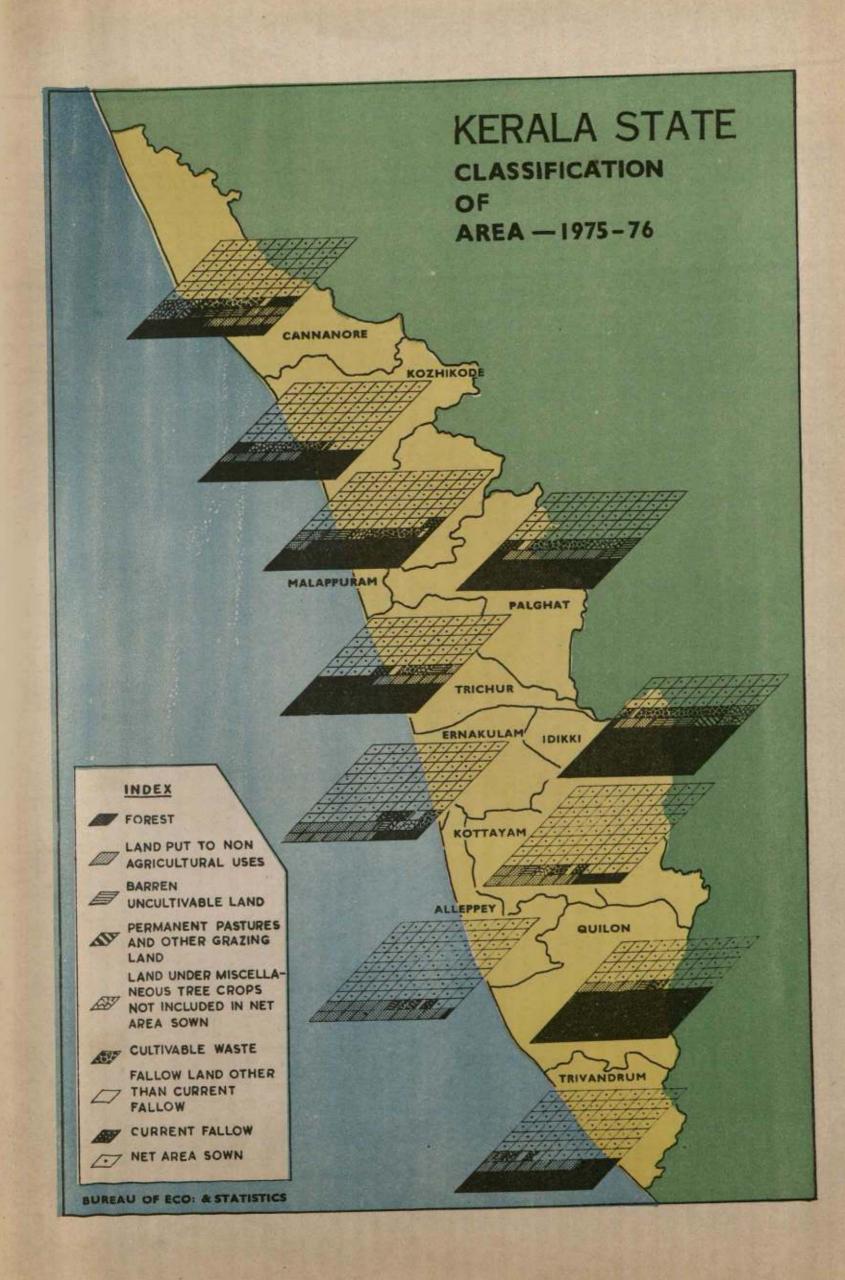


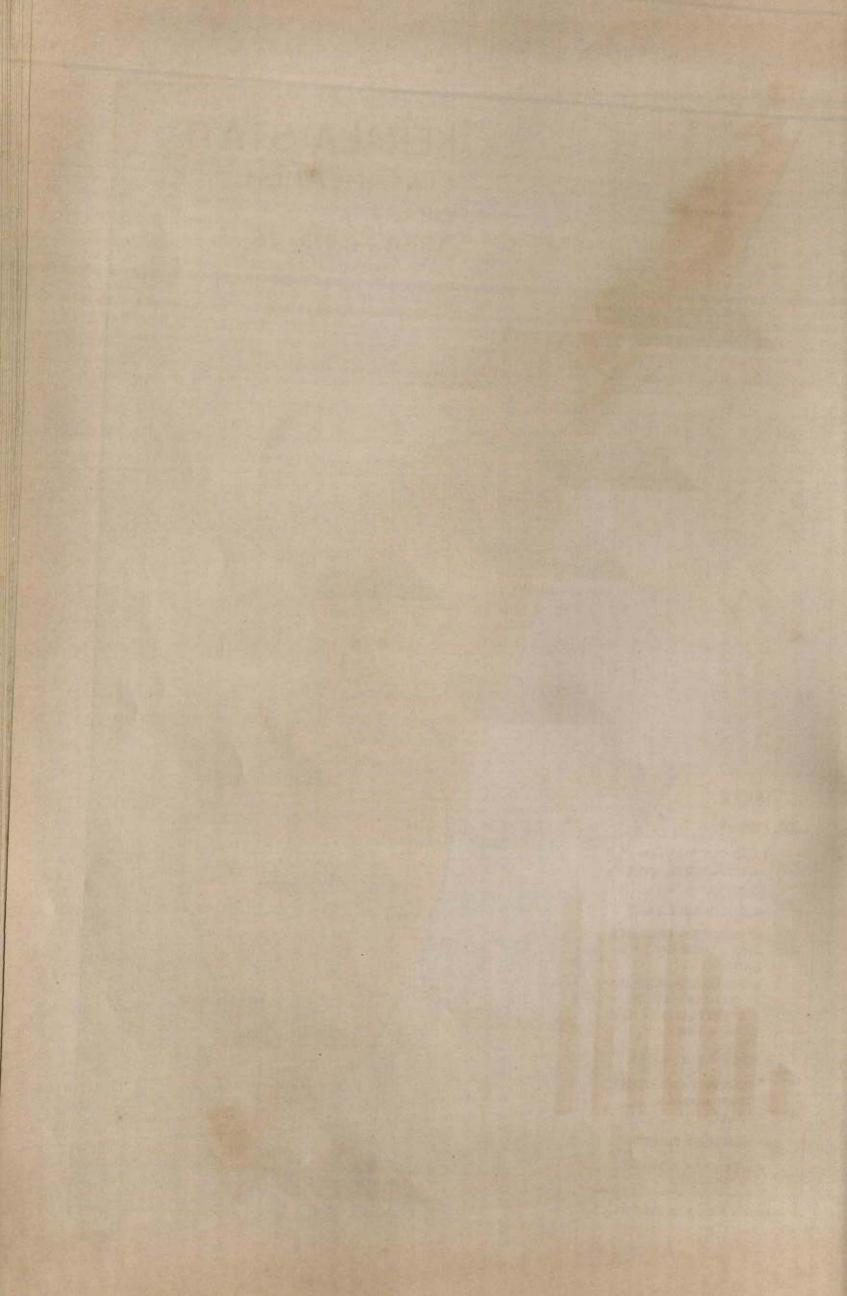


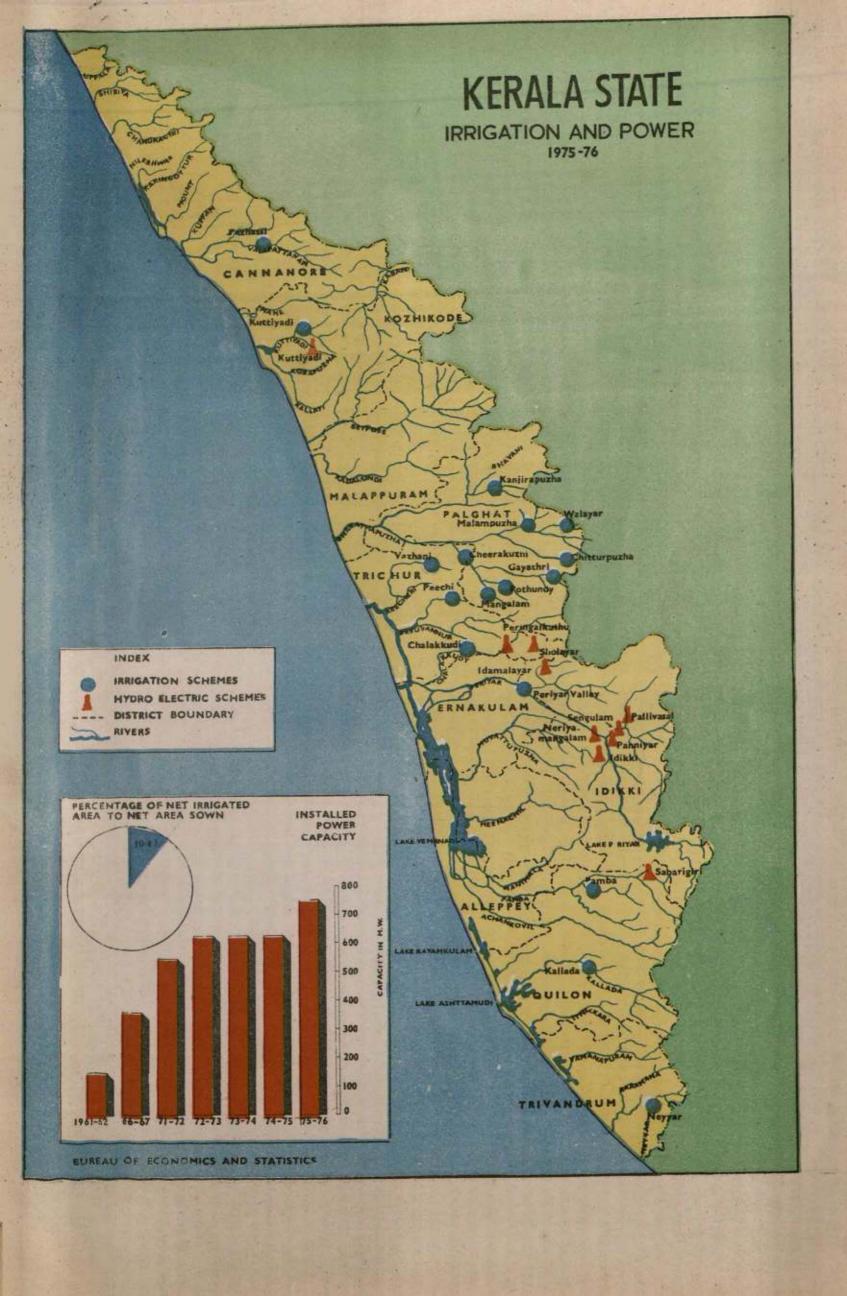


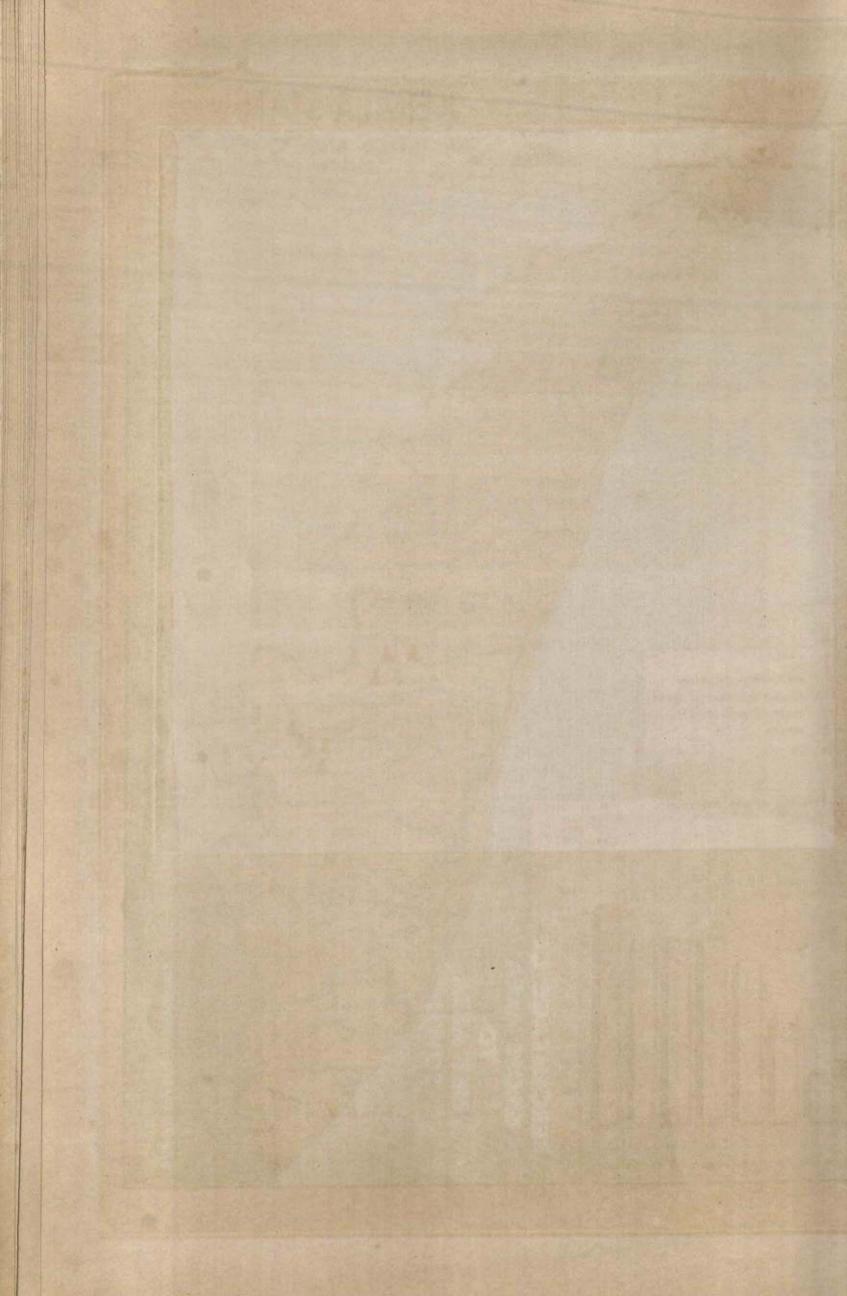


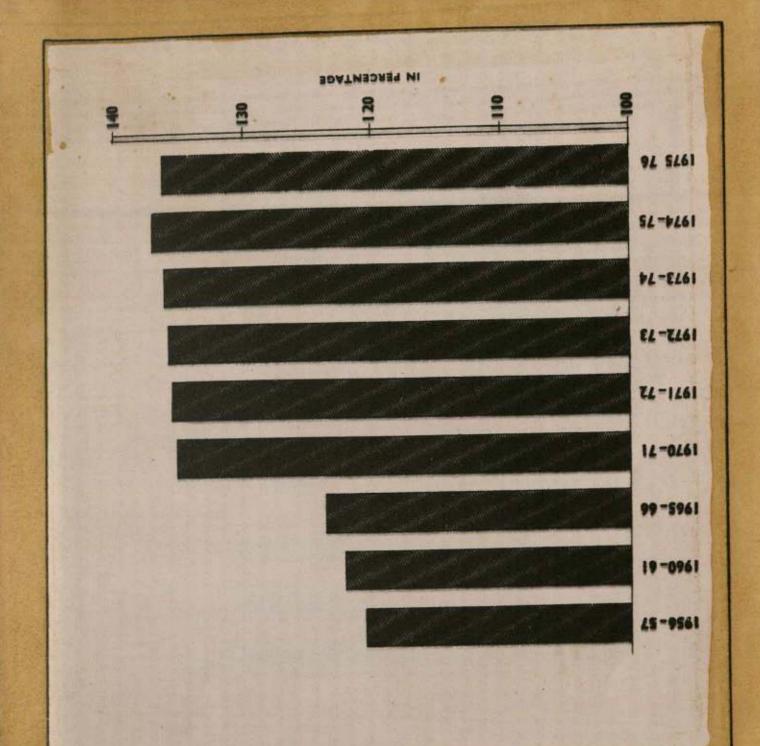




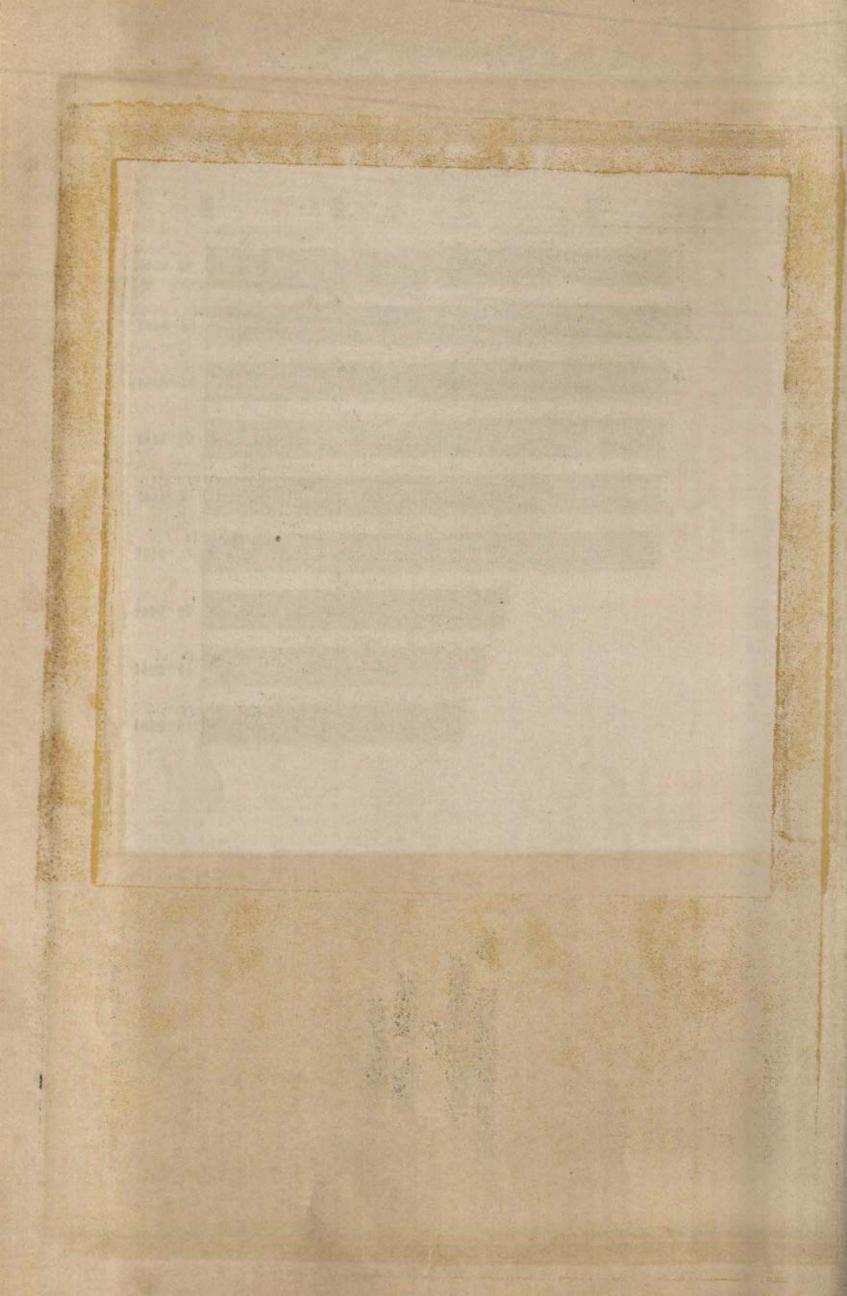


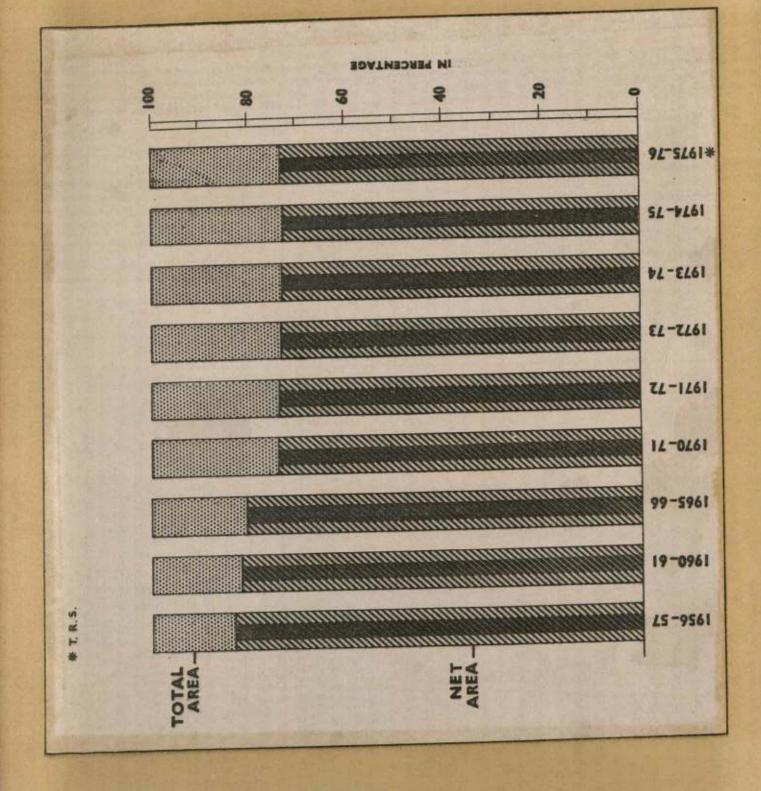




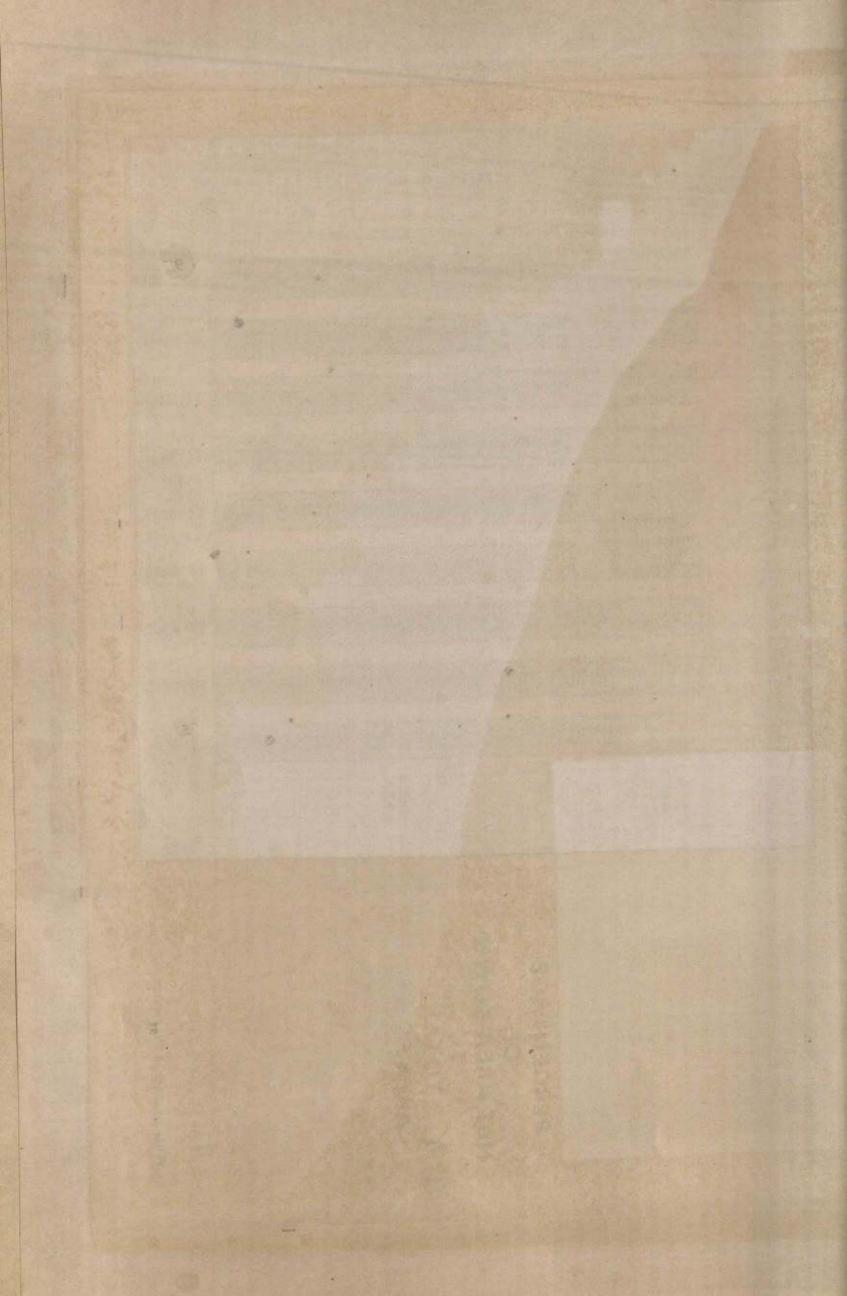


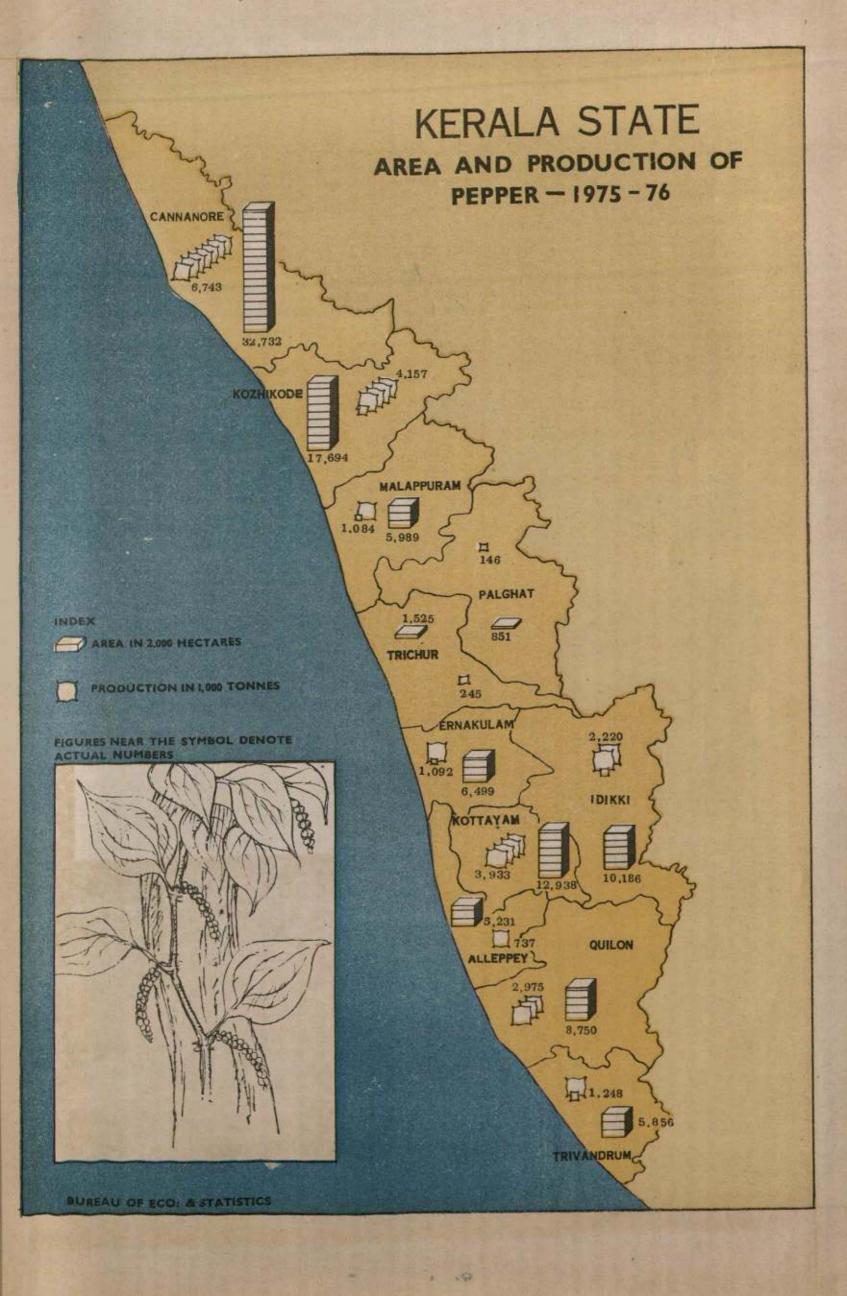
GROSS AREA
TO
TO
NET AREA
SOWN



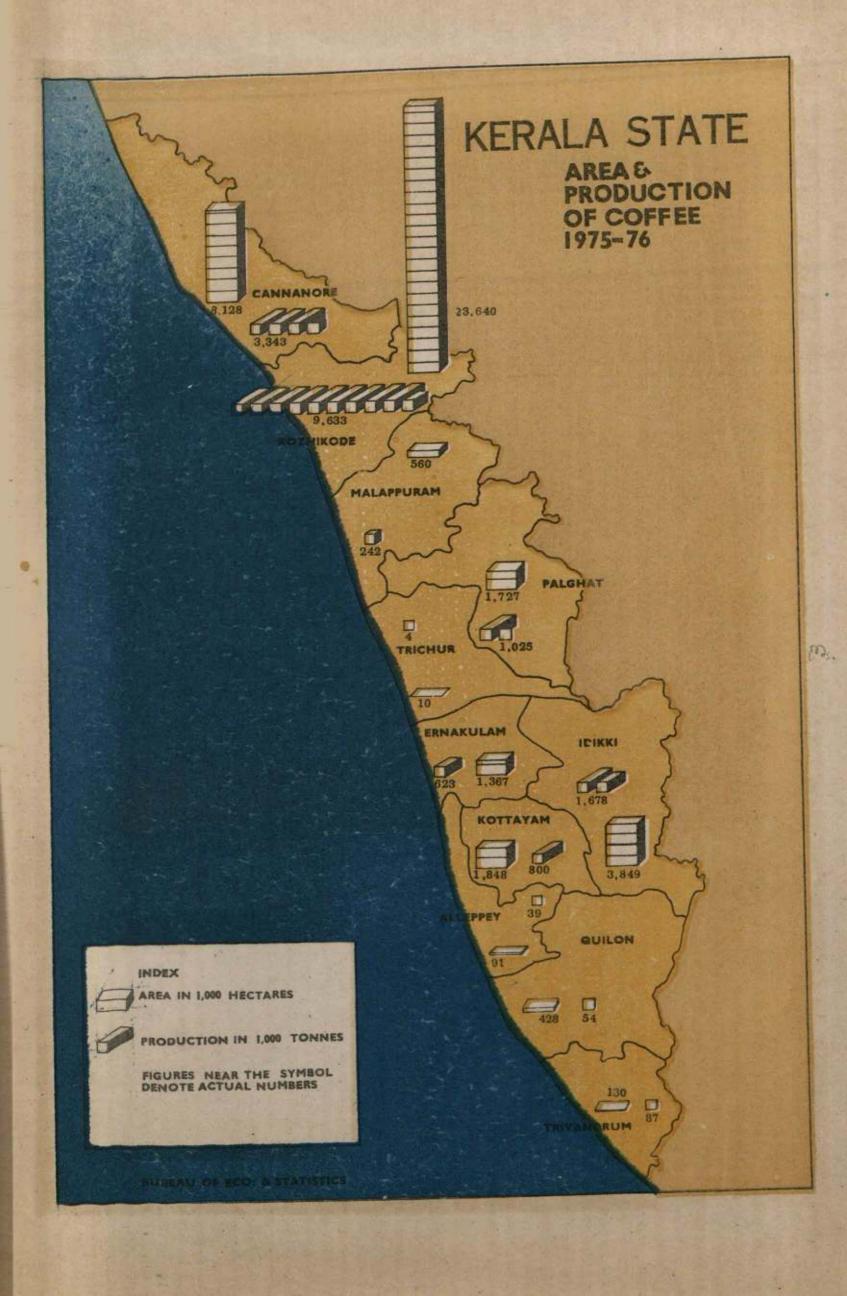


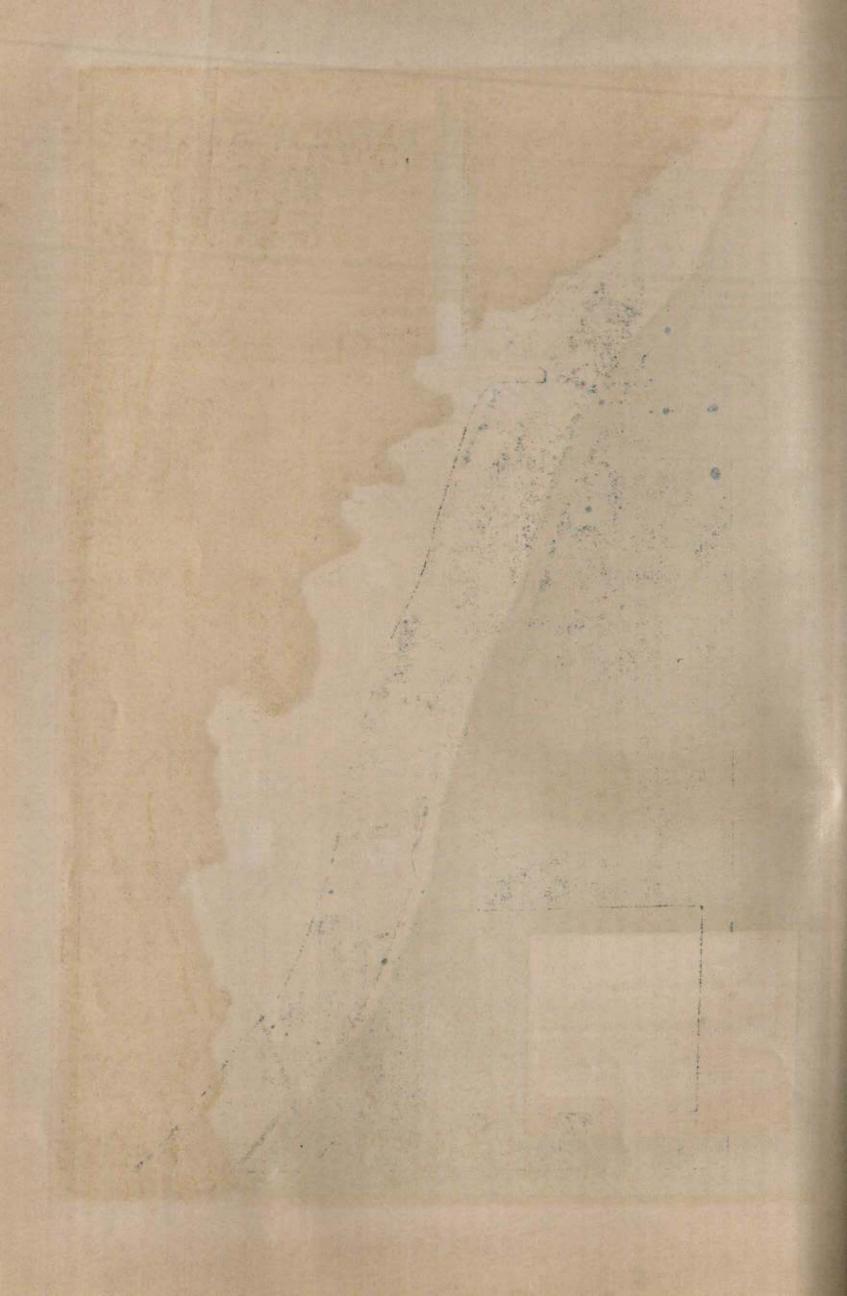
PERCENTAGE
OF
NET AREA SOWN
TO
TO
TOTAL
AREA SOWN

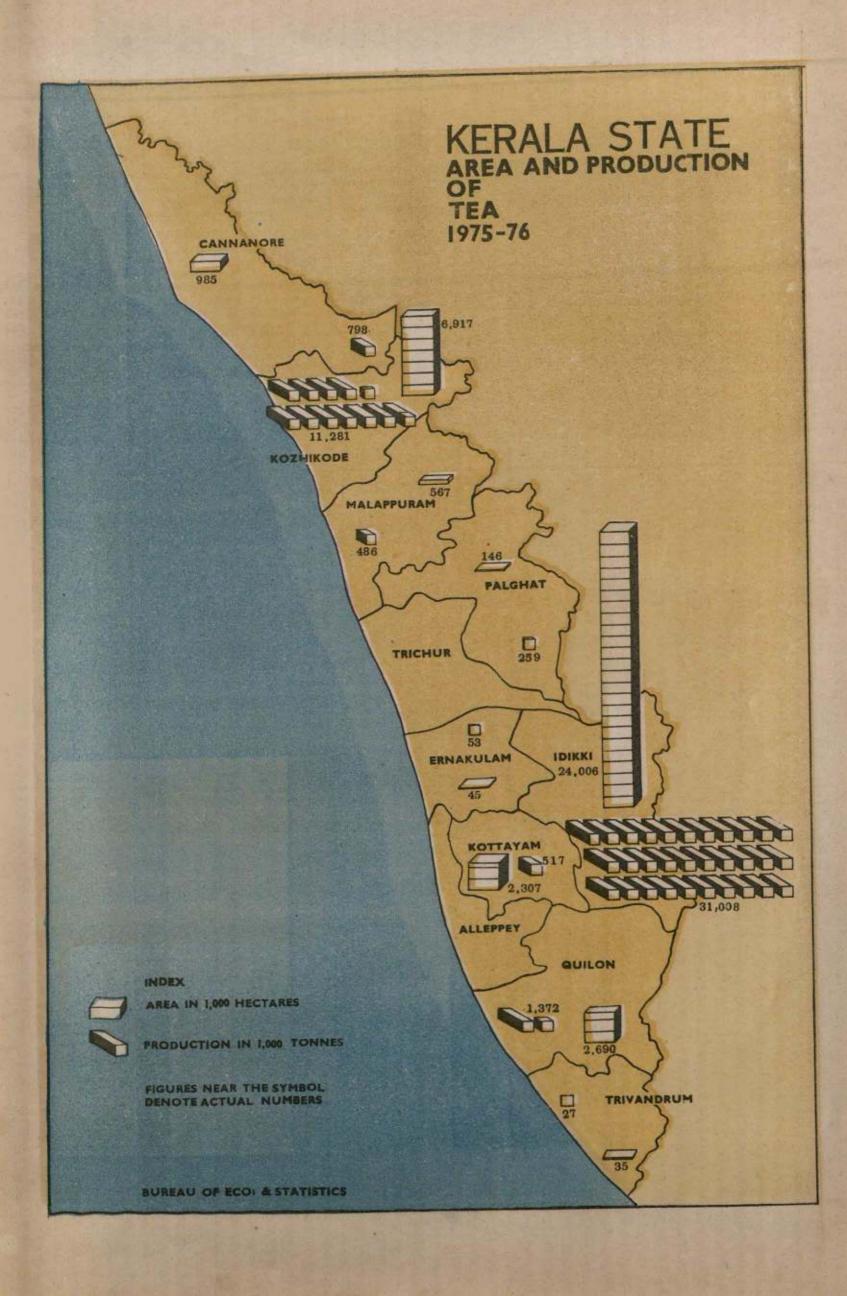




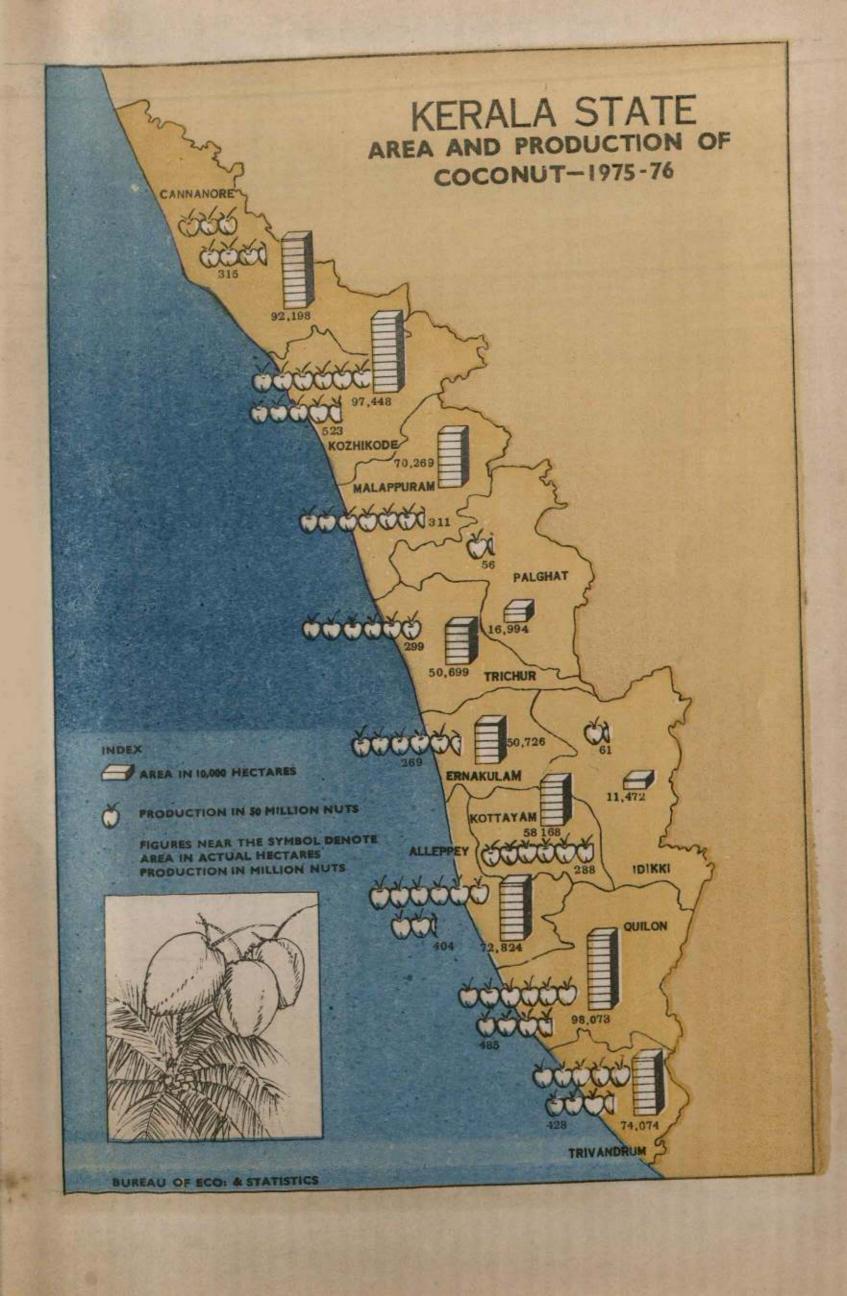




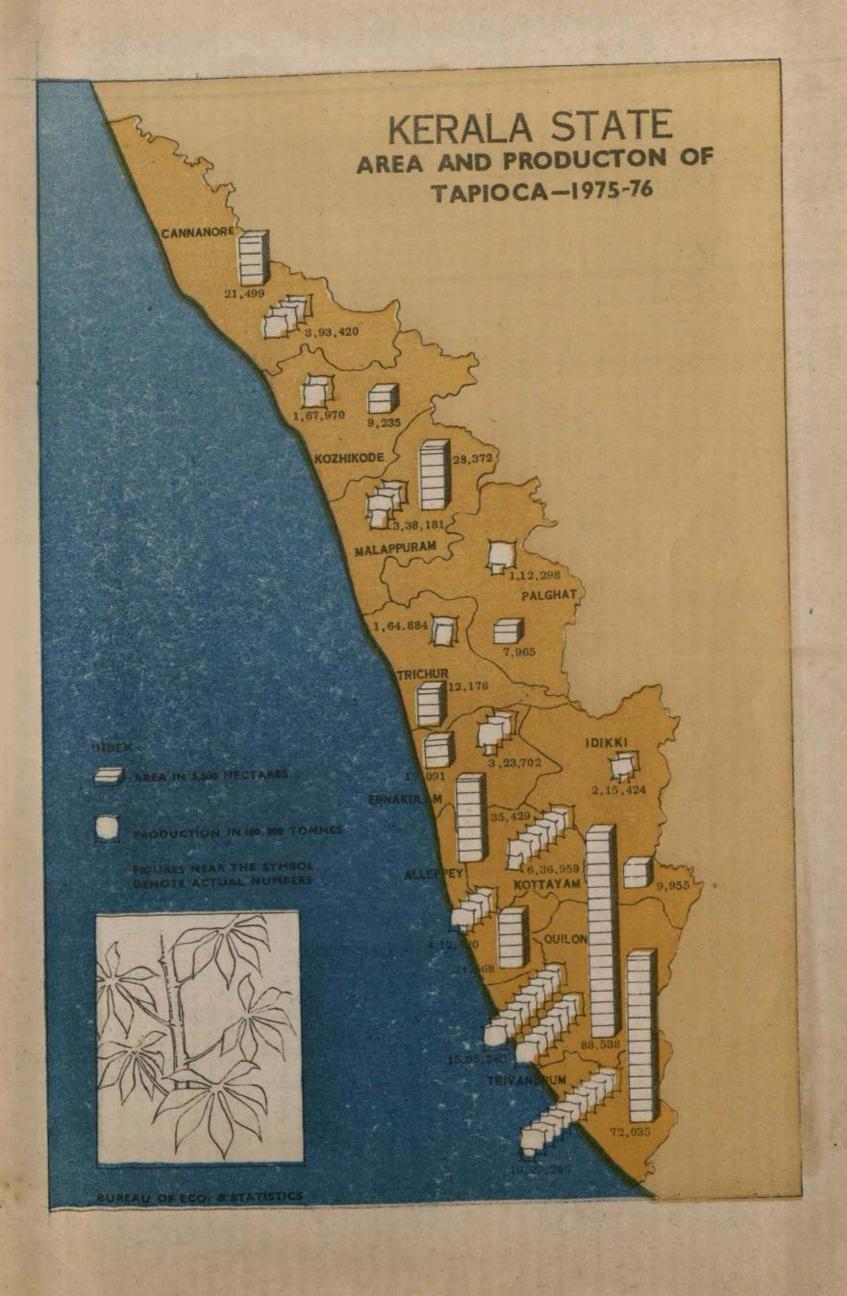




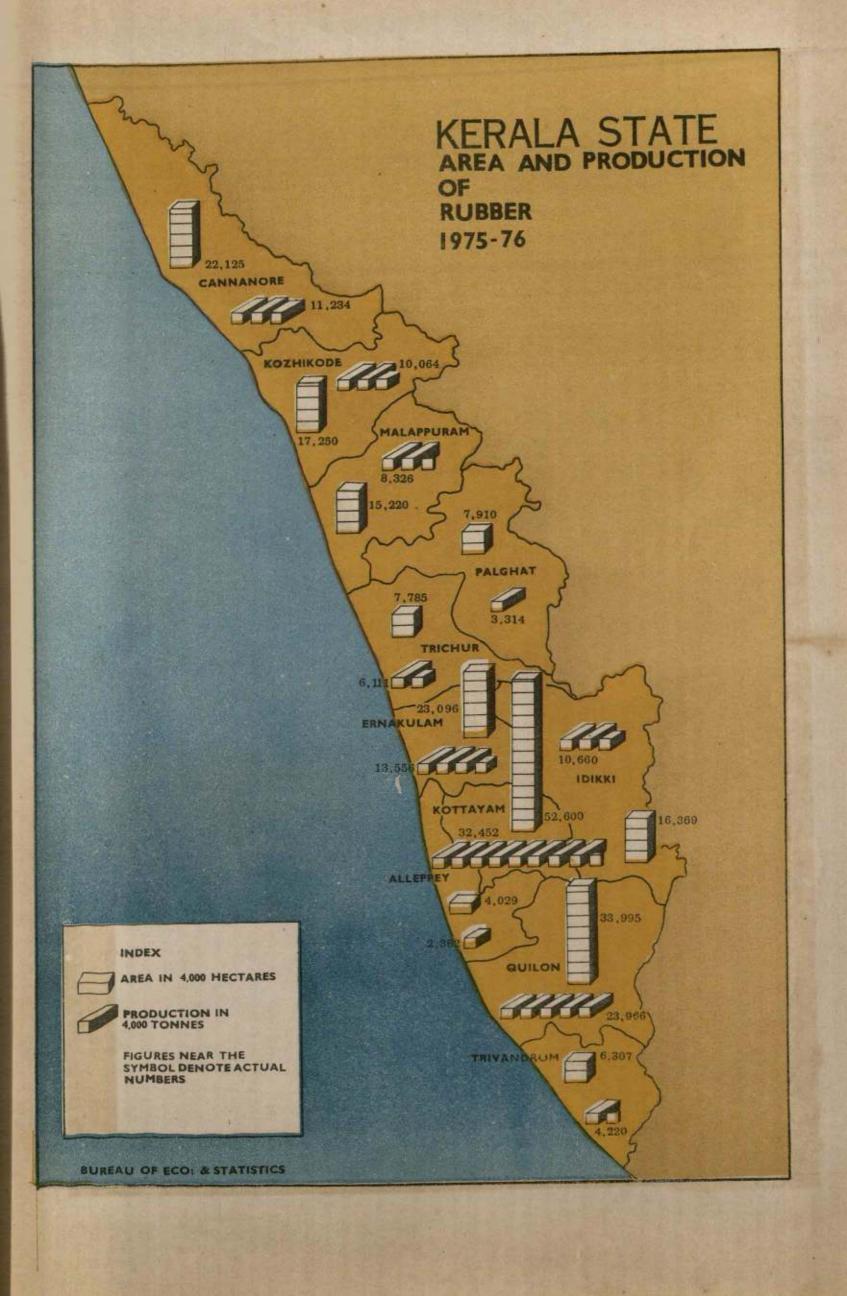


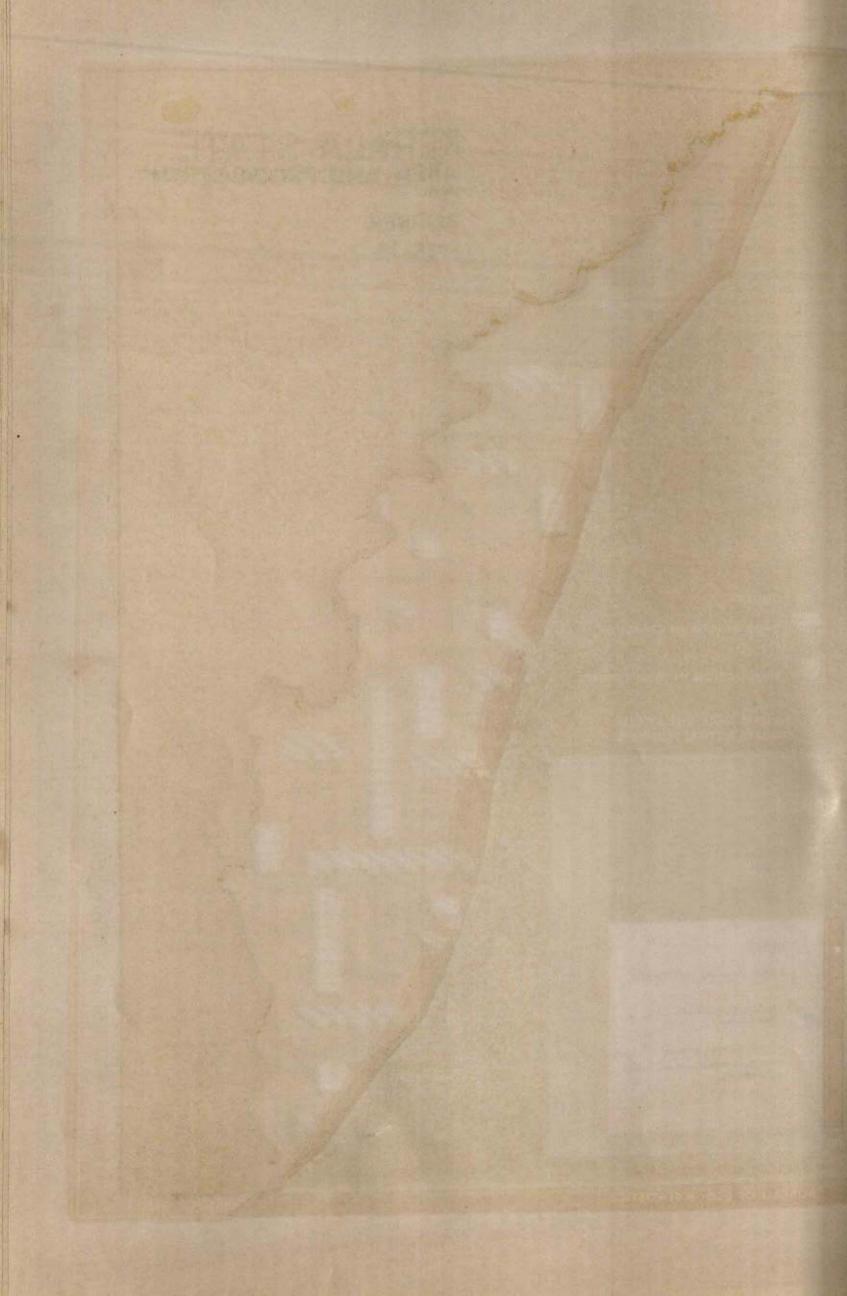


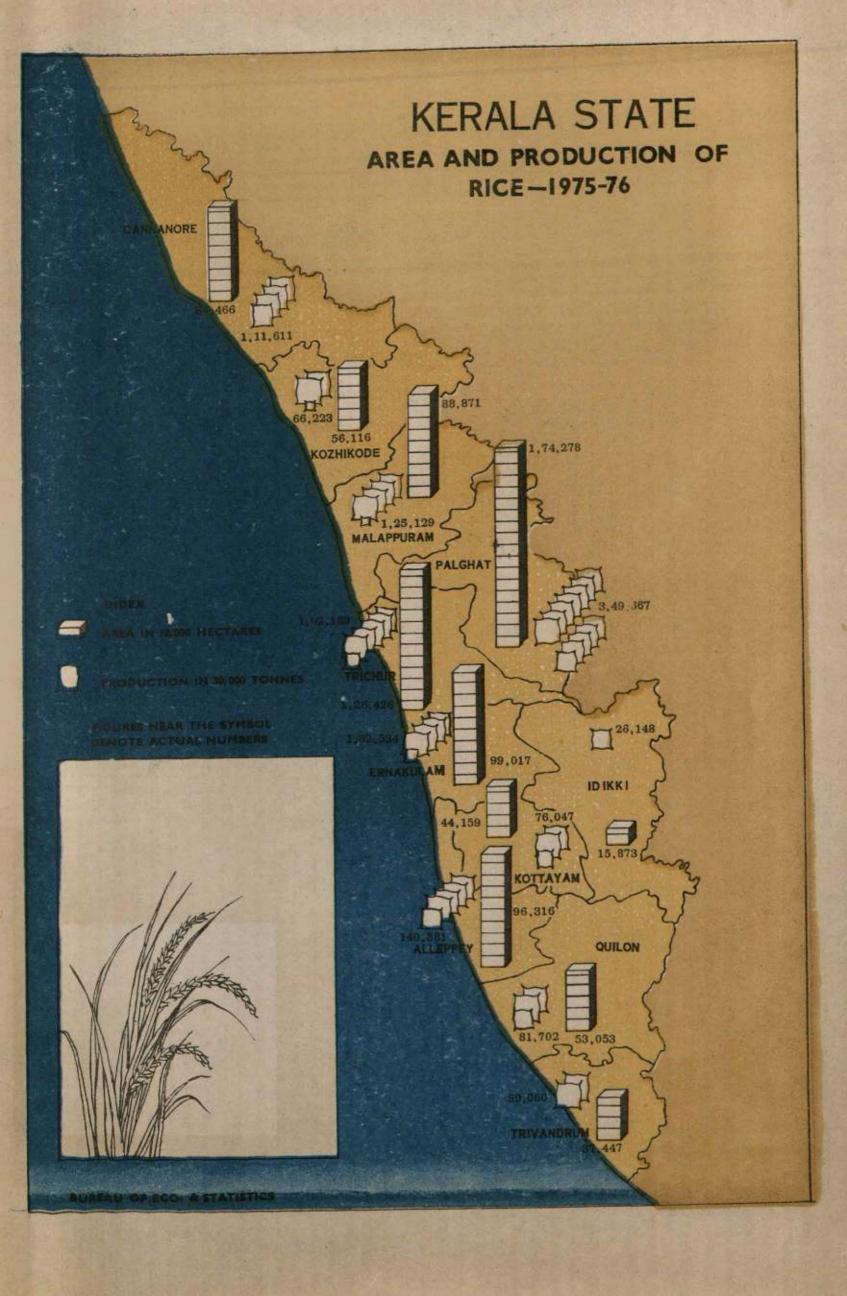




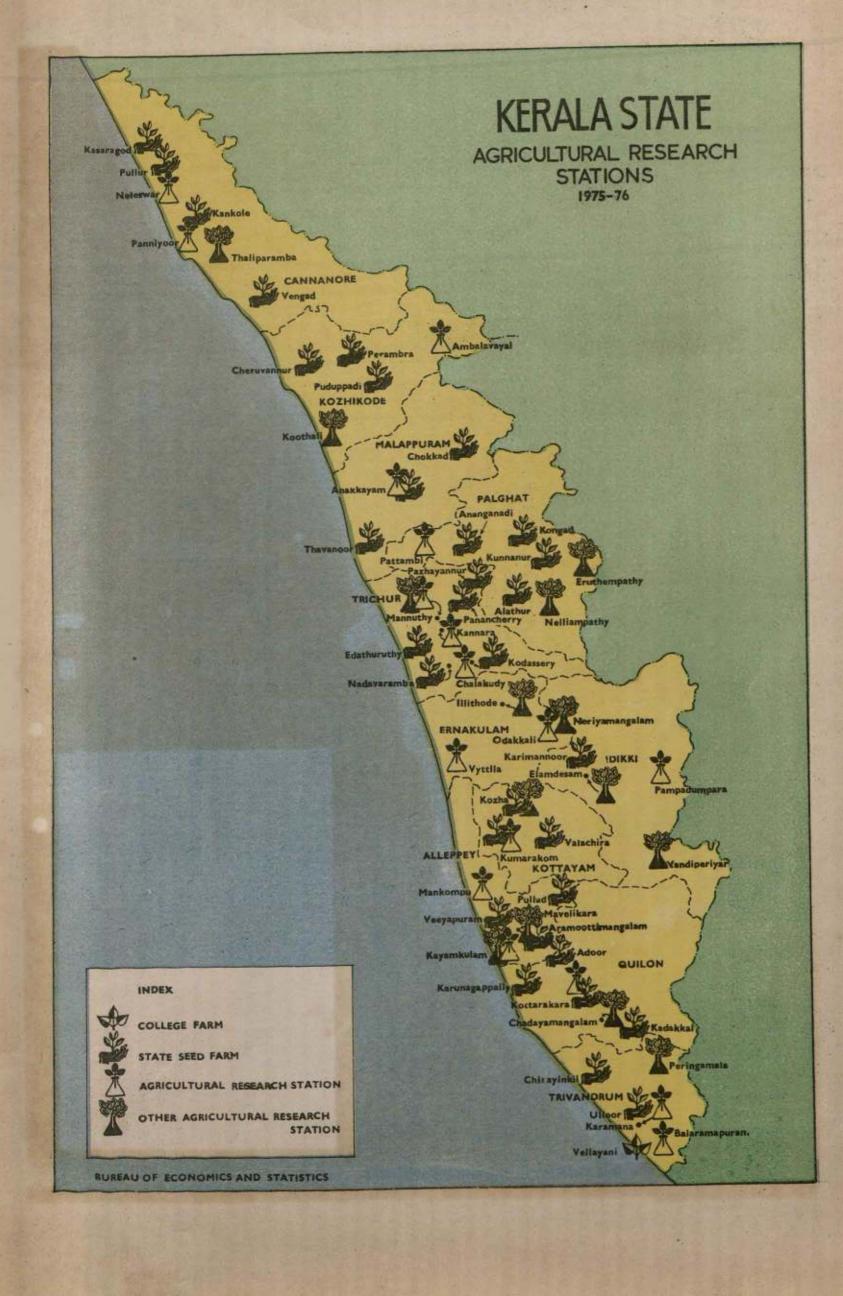


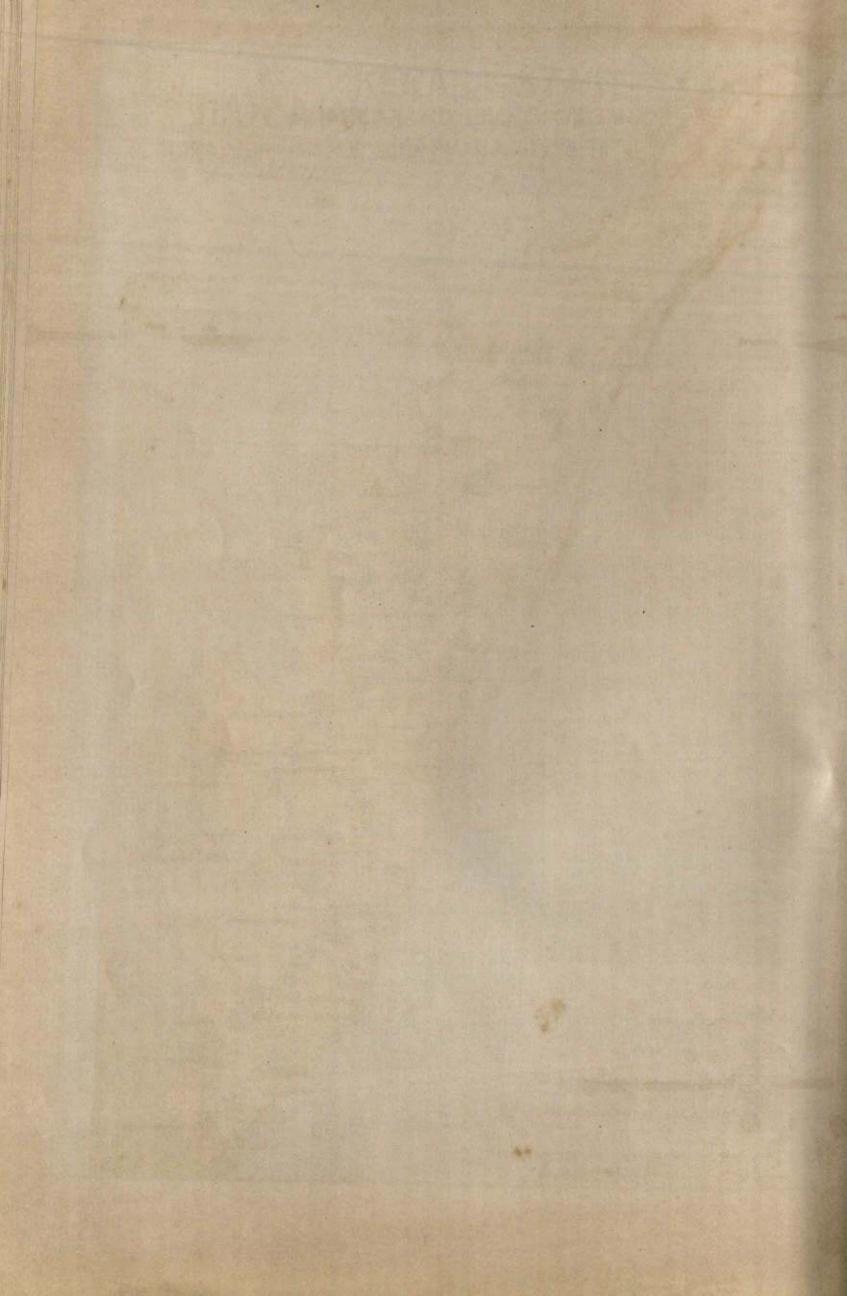


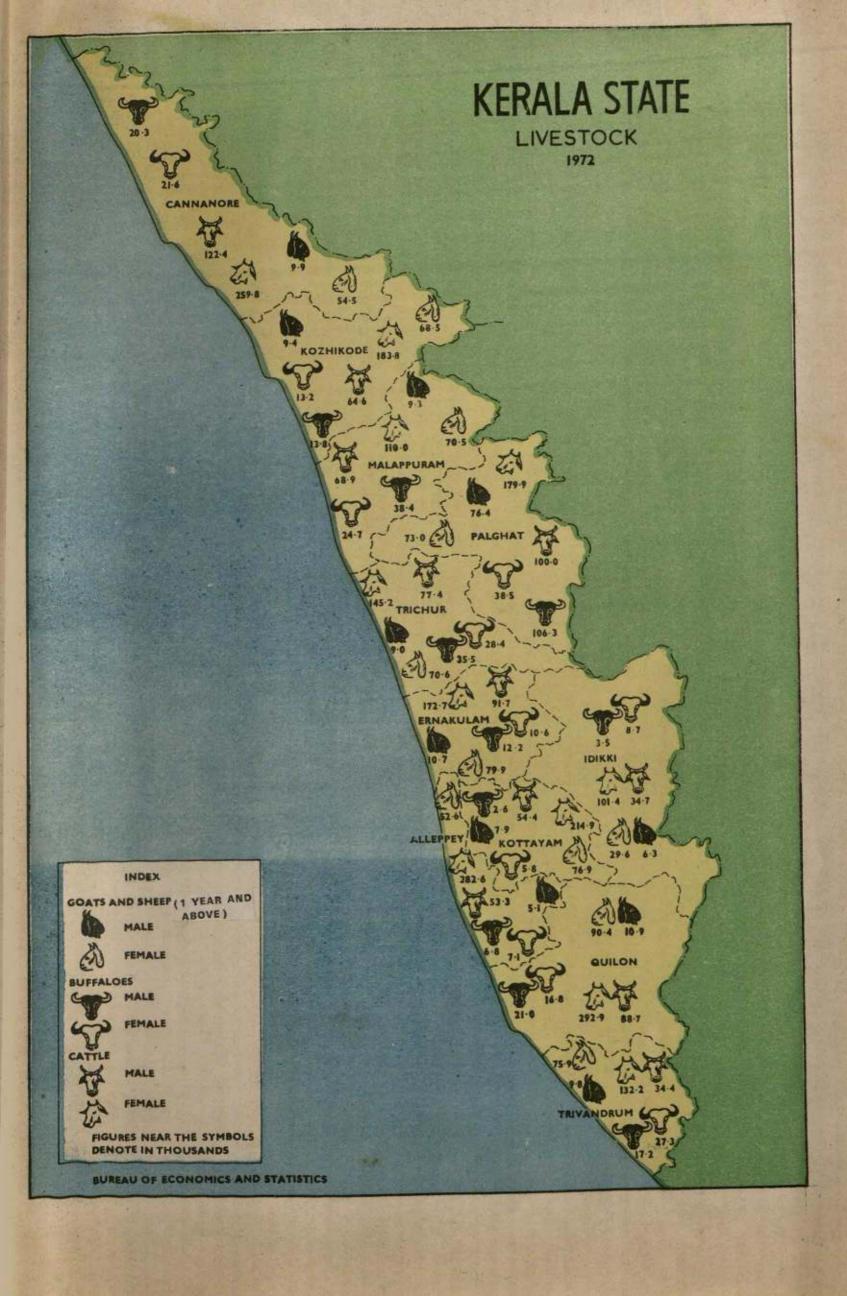




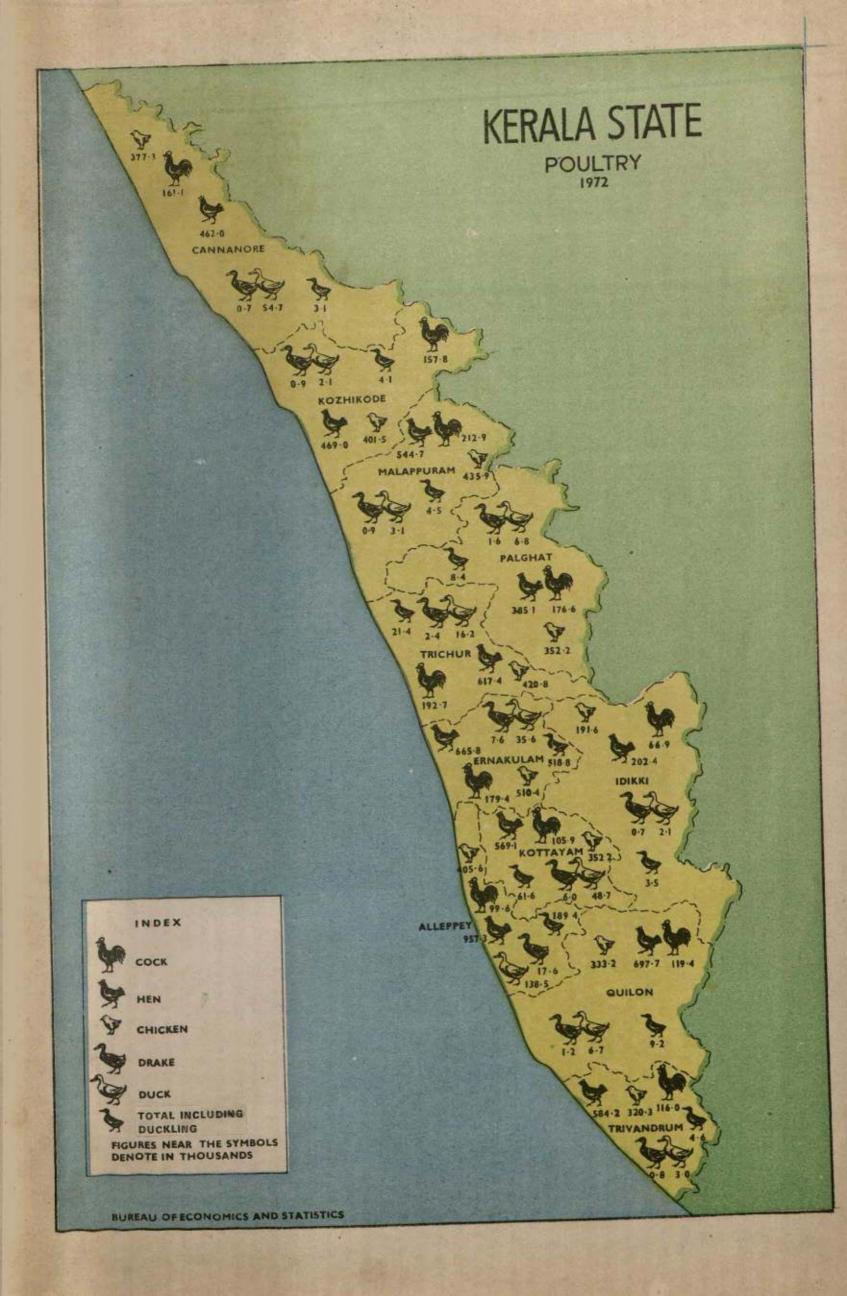


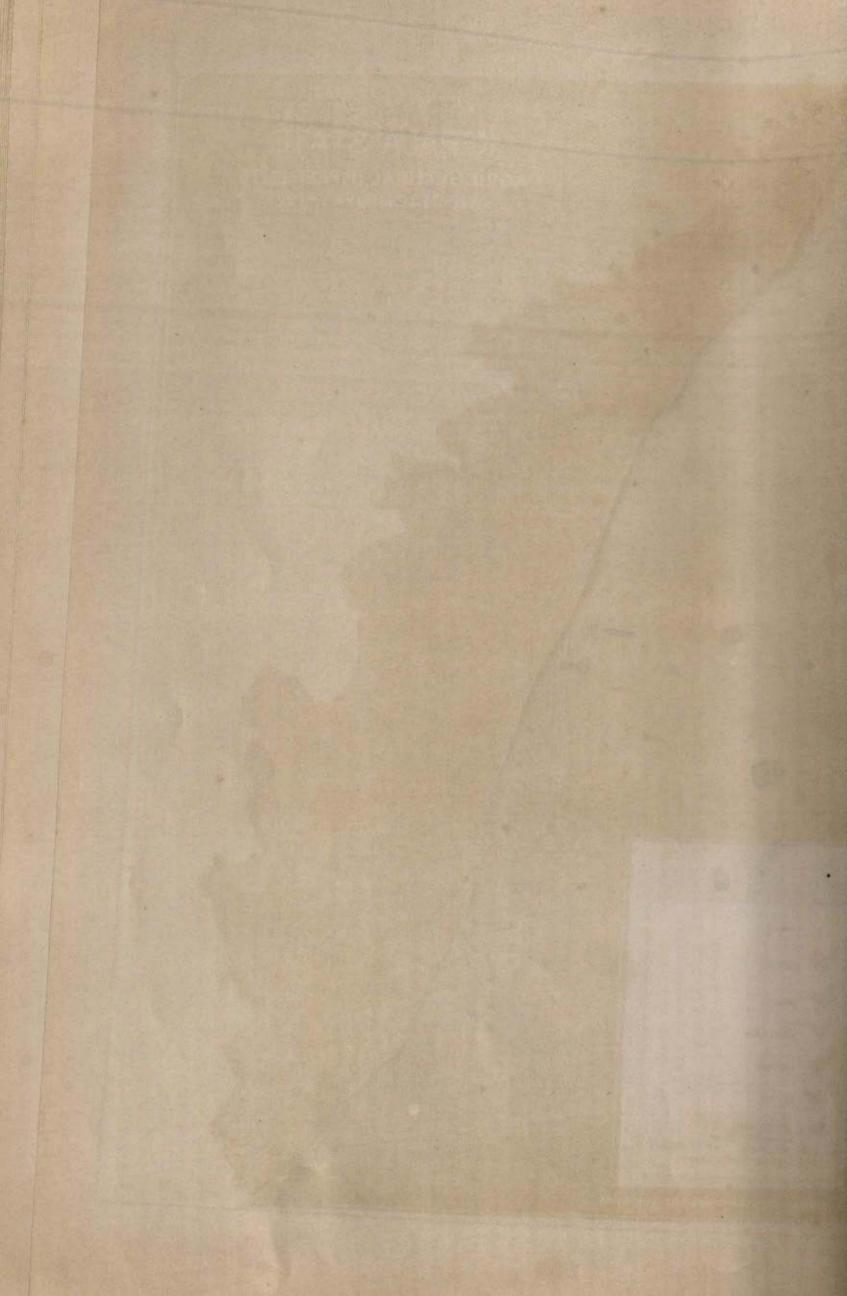


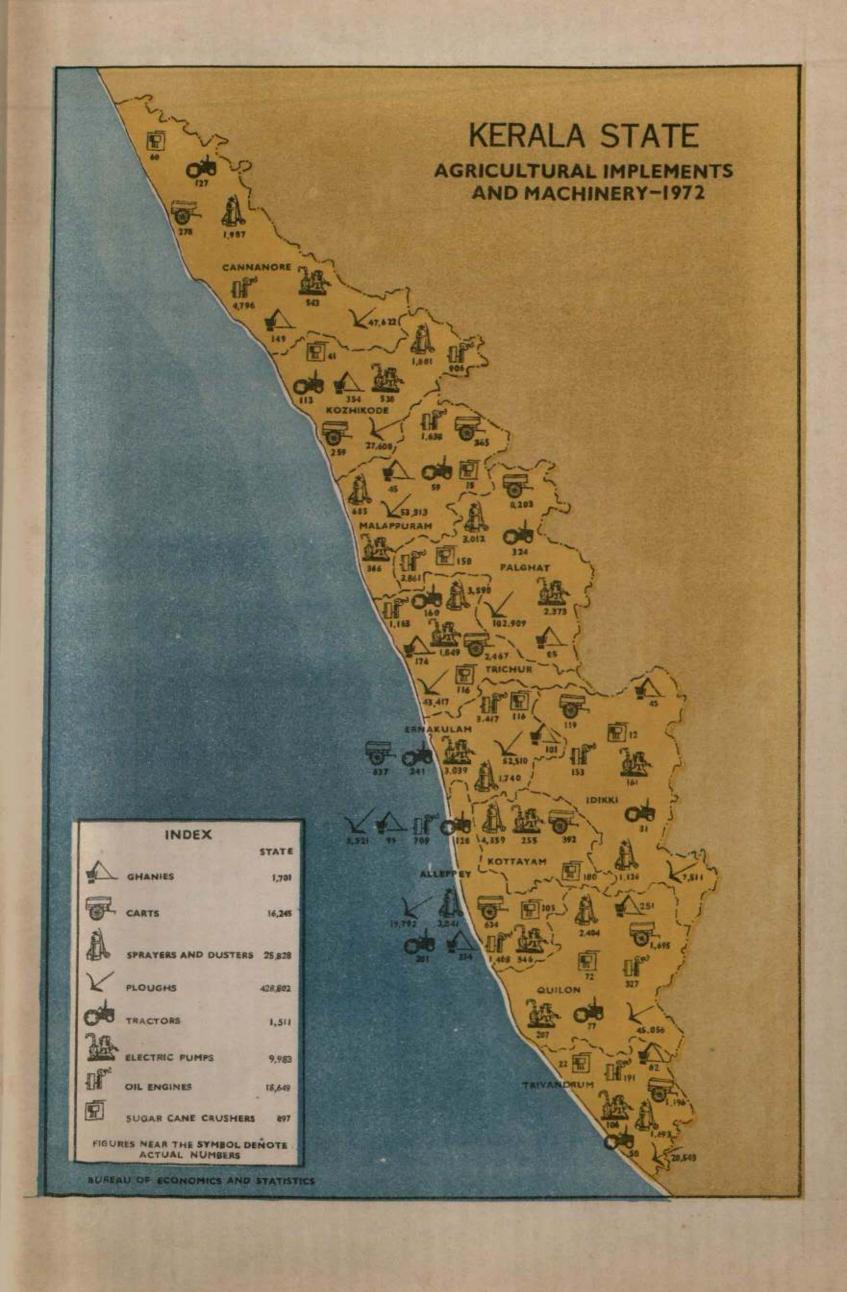


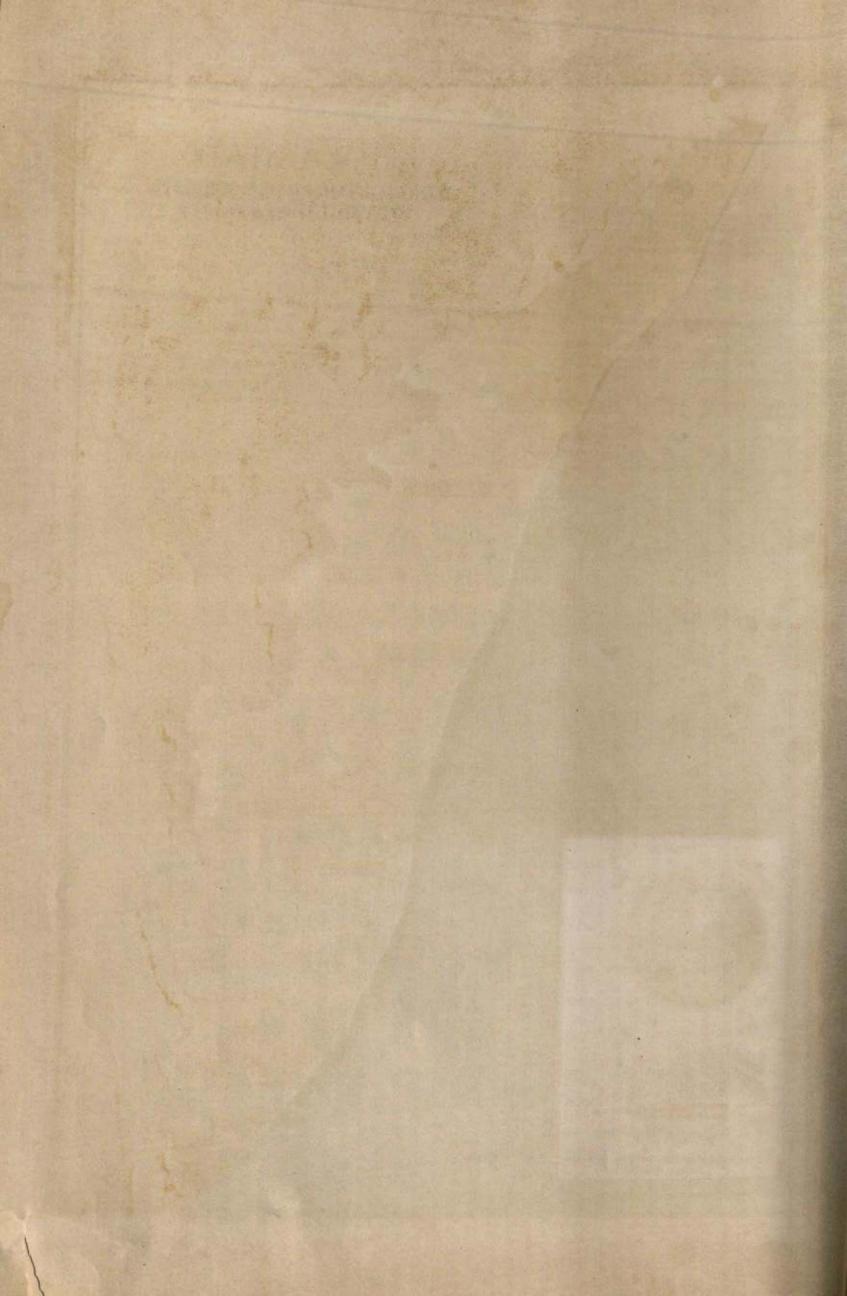


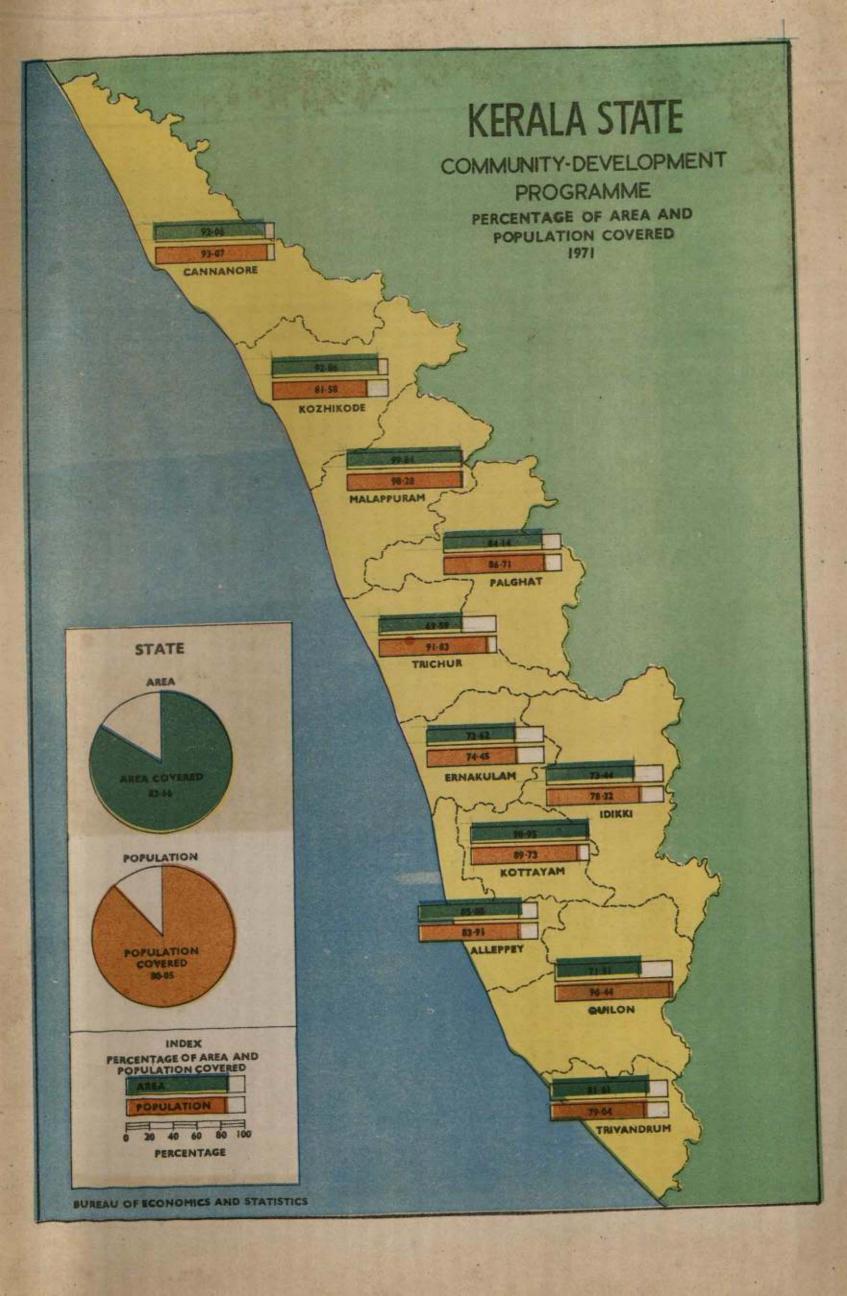


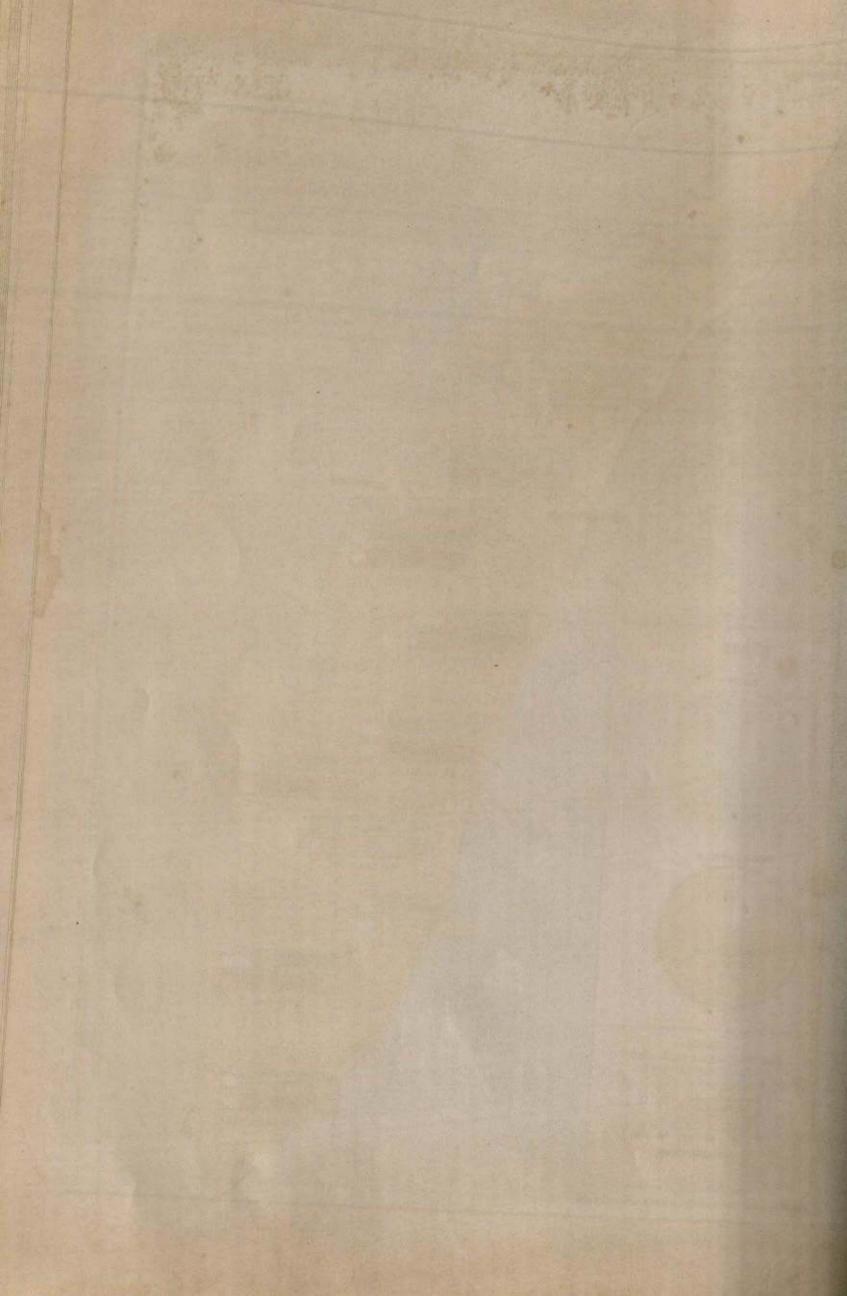


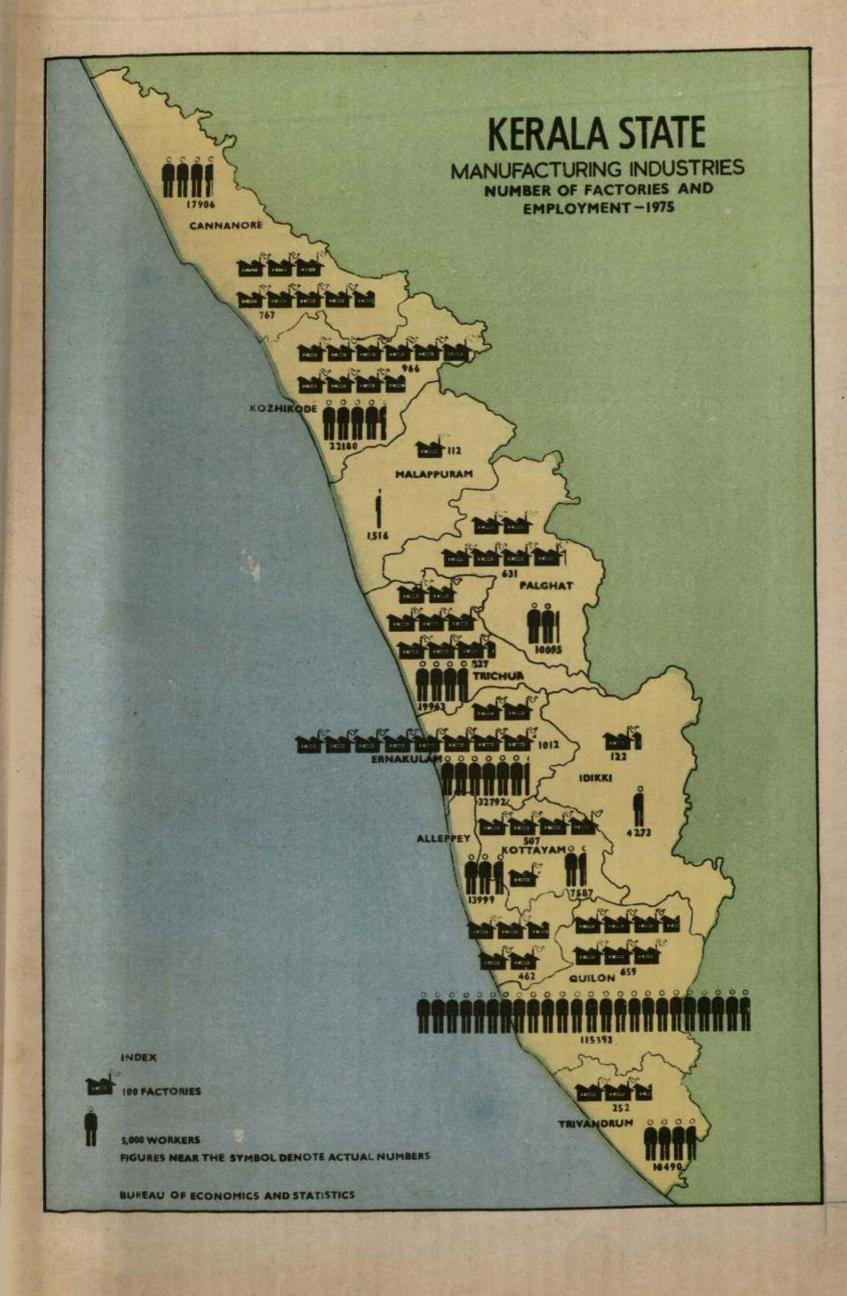


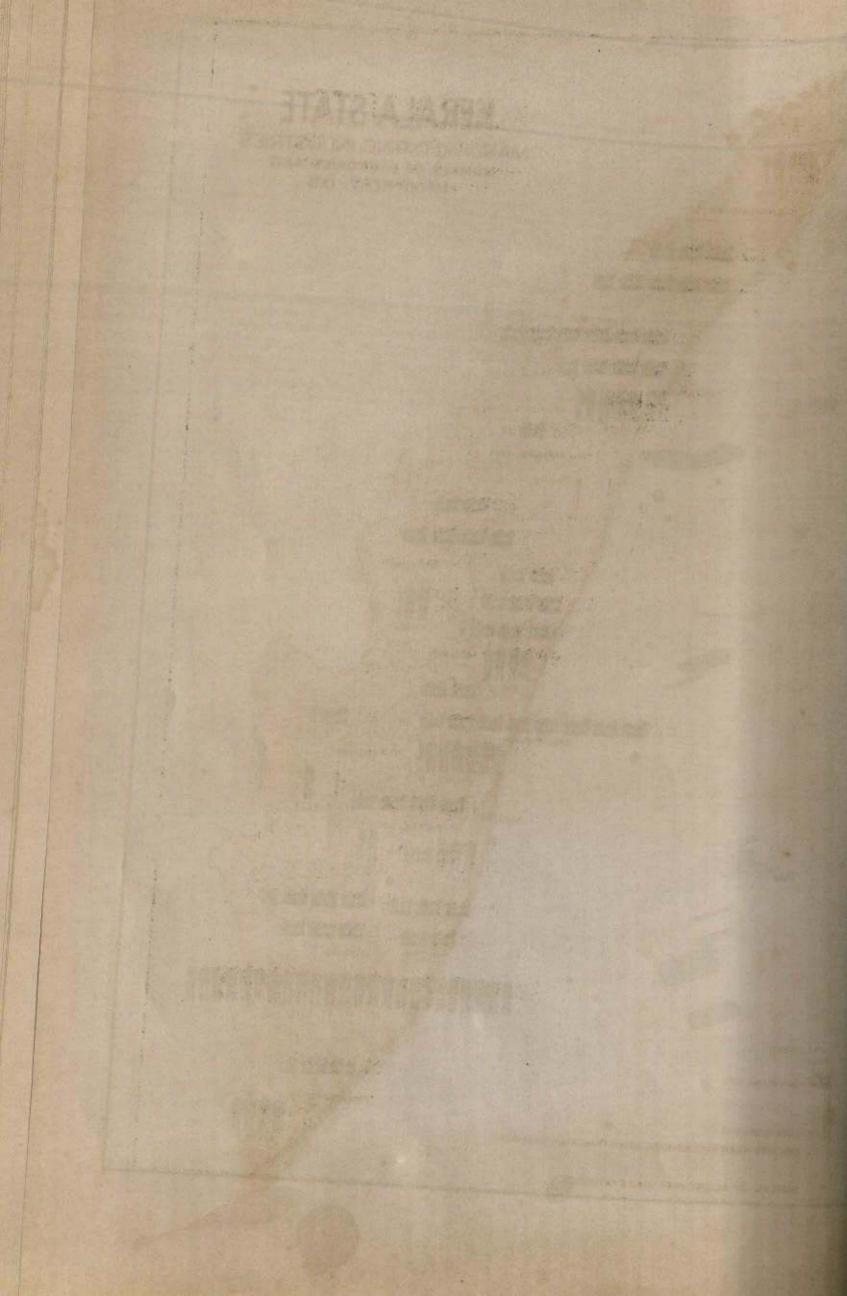


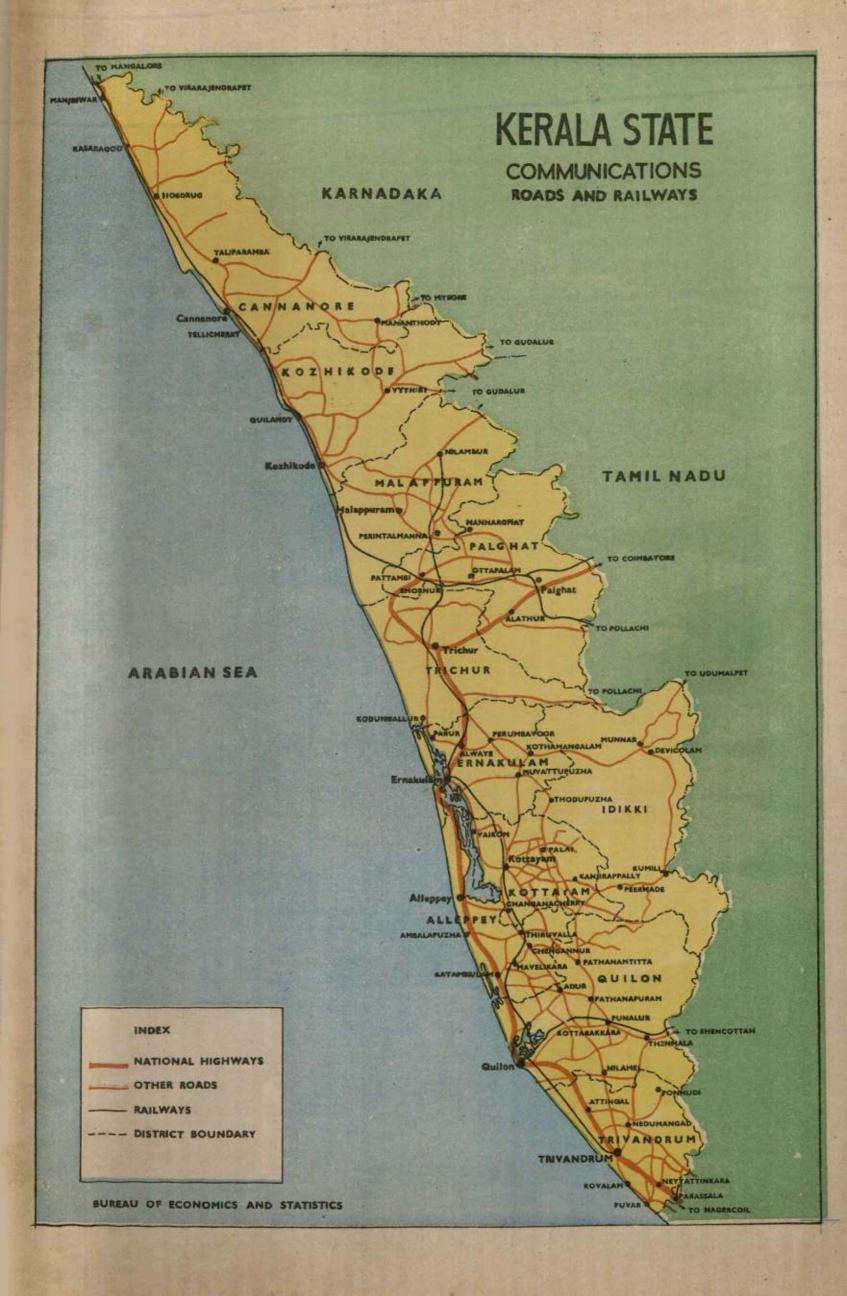


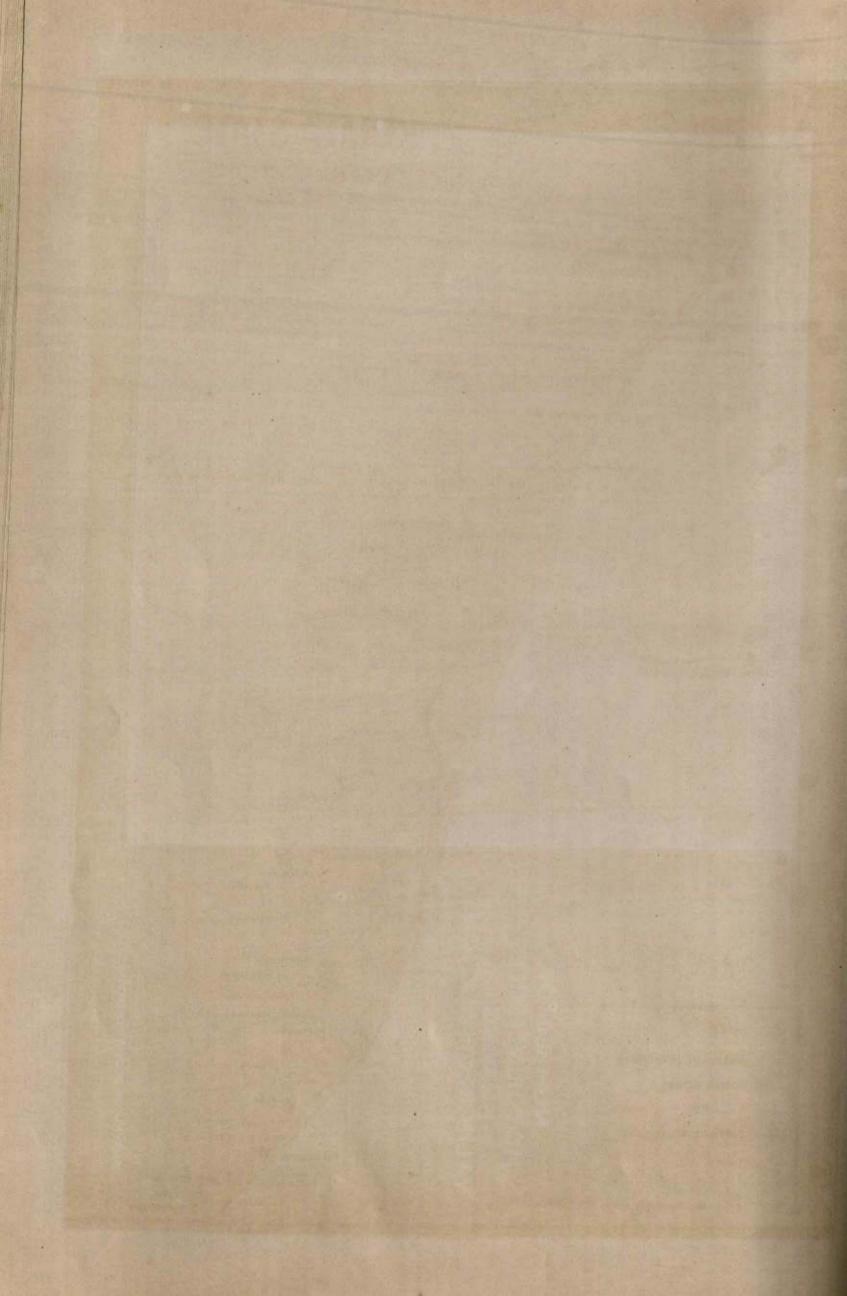


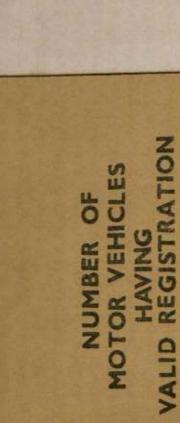


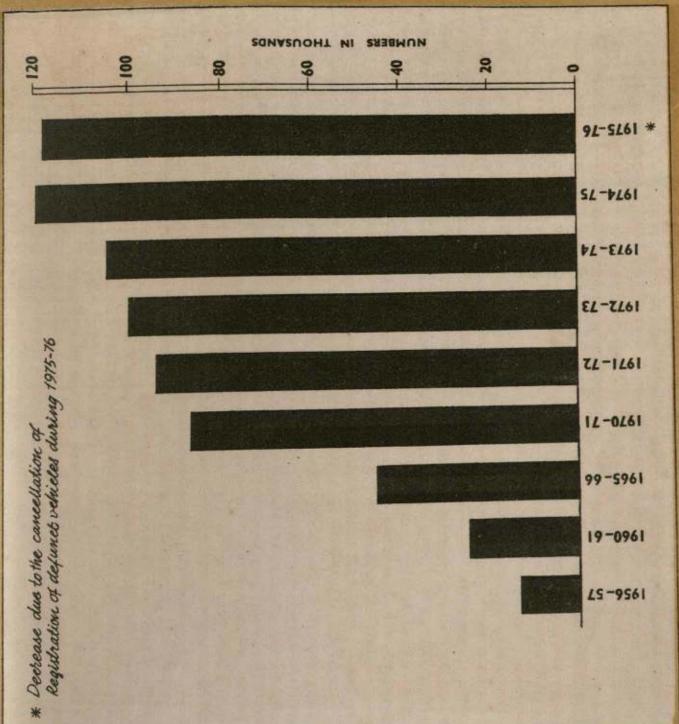


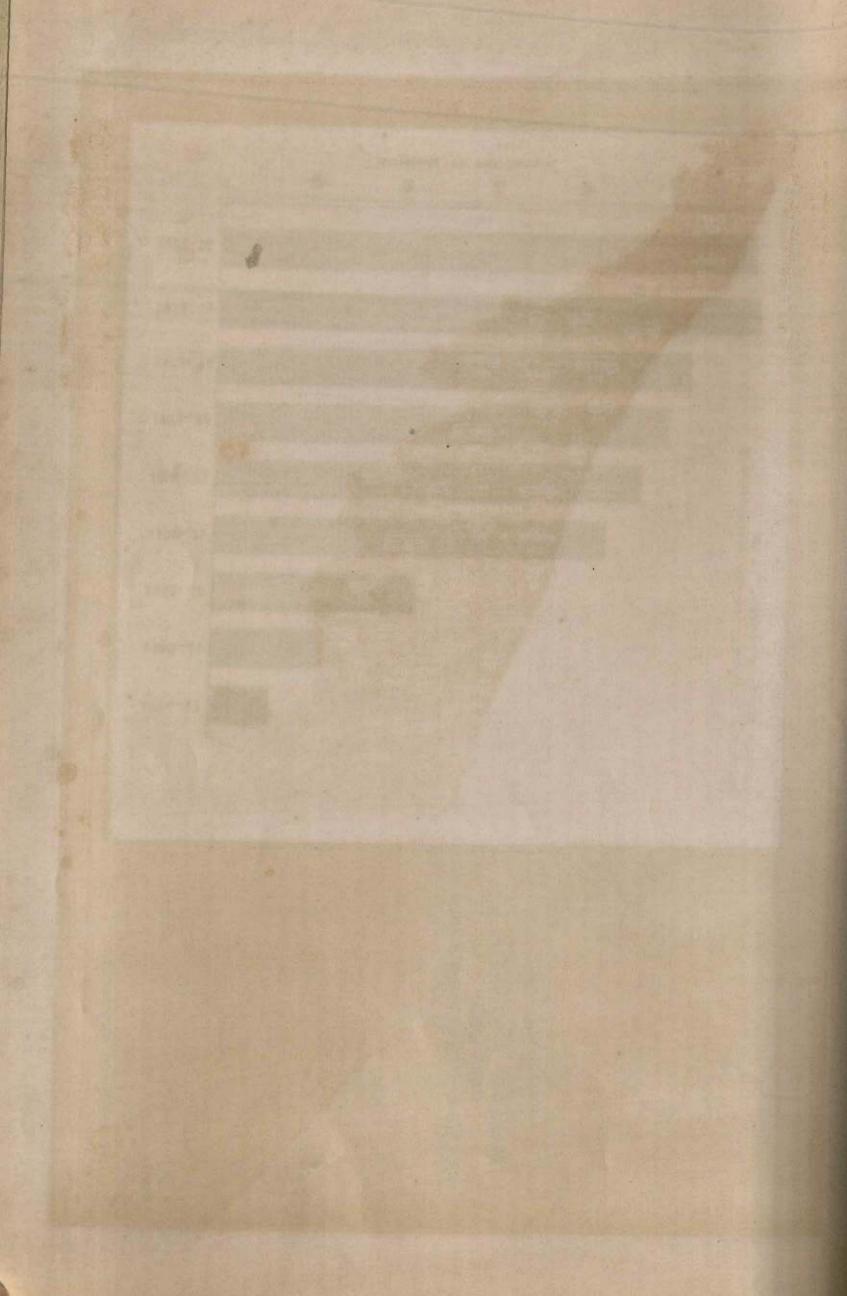


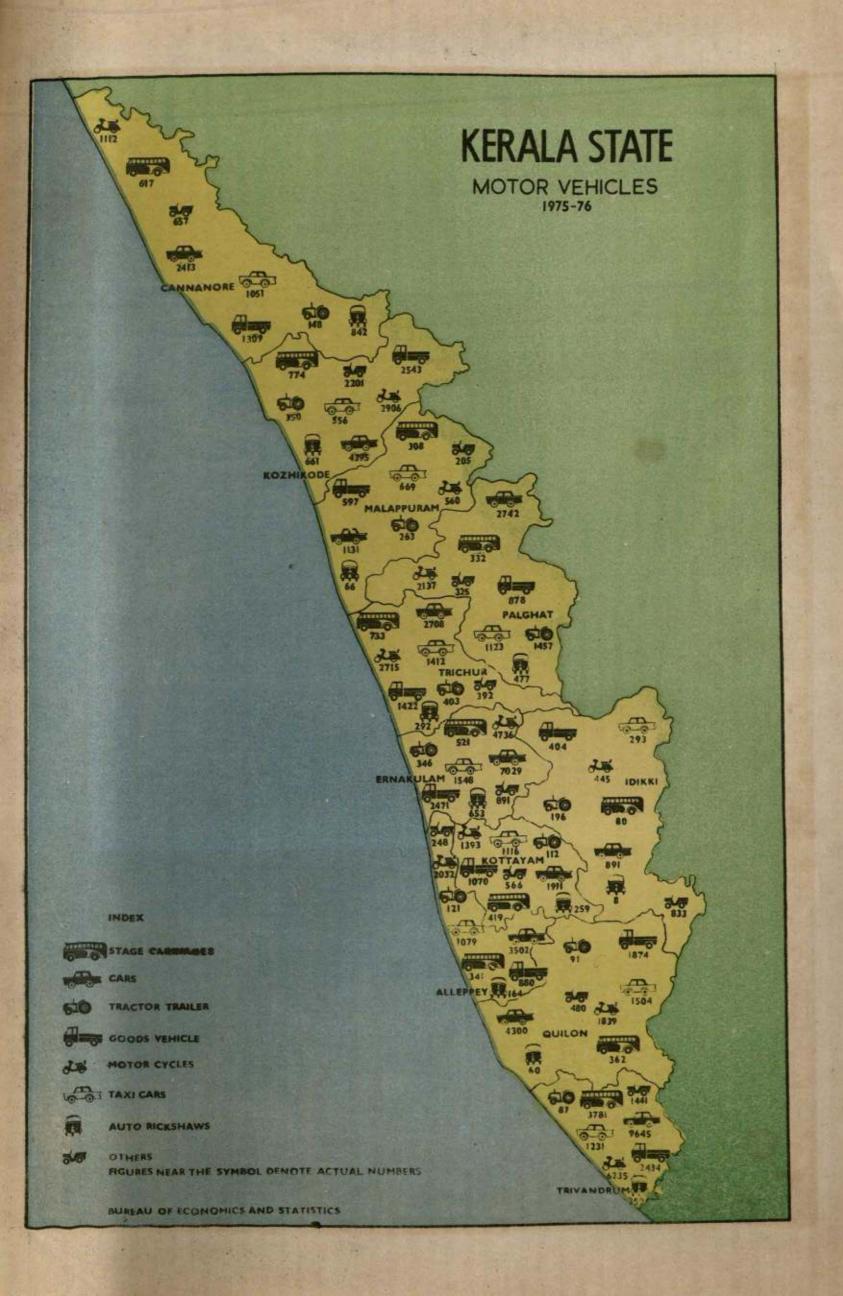


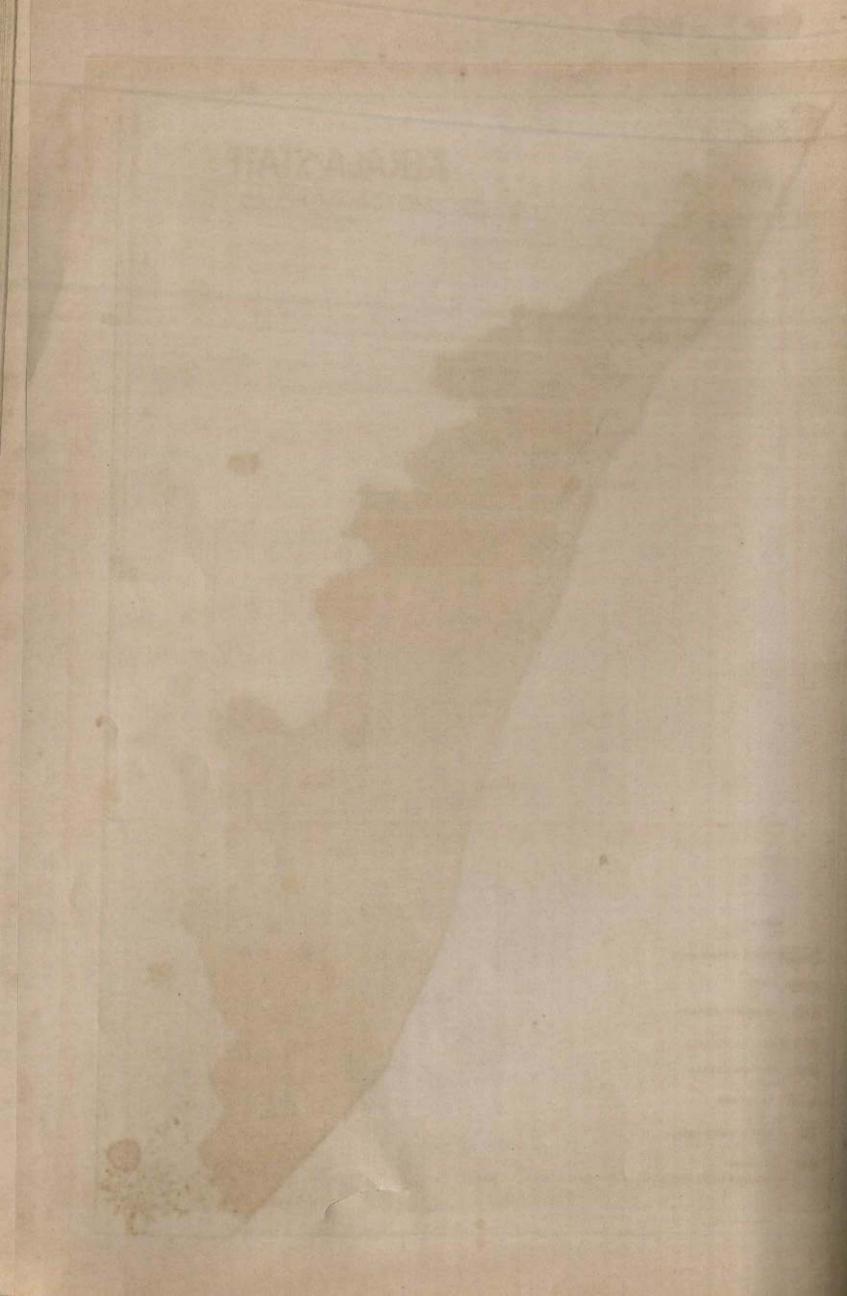


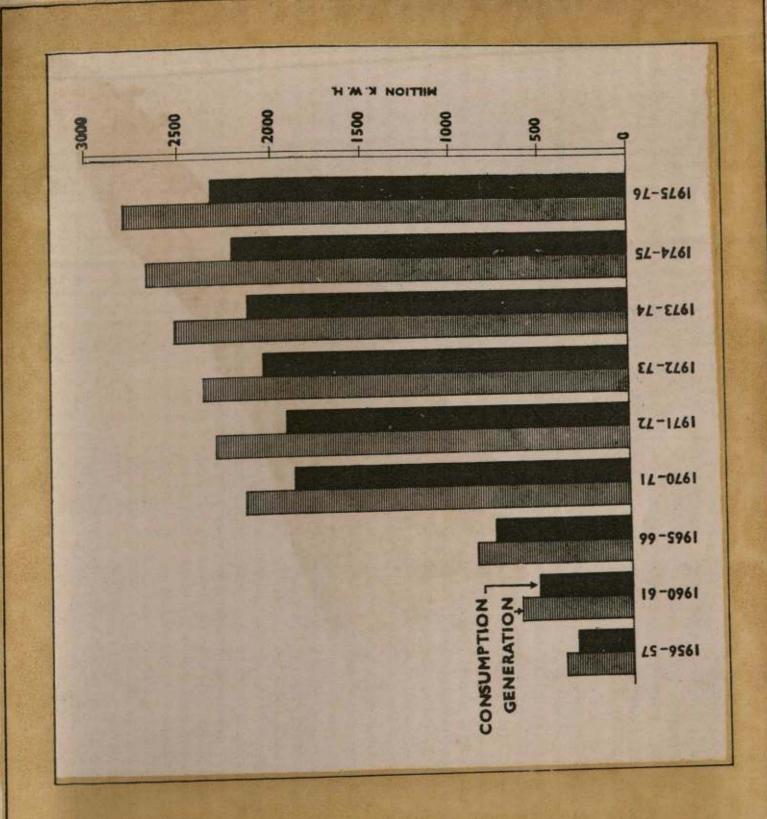






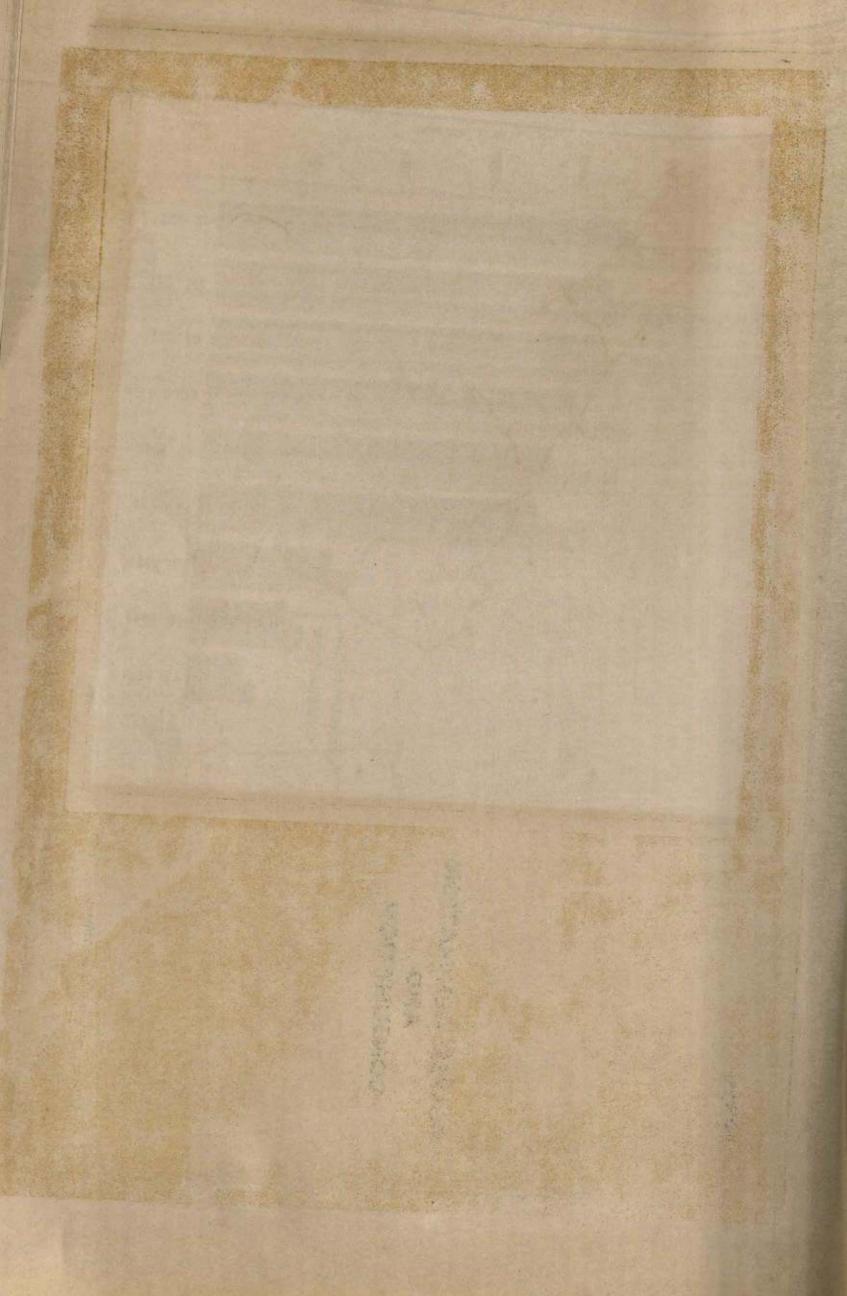




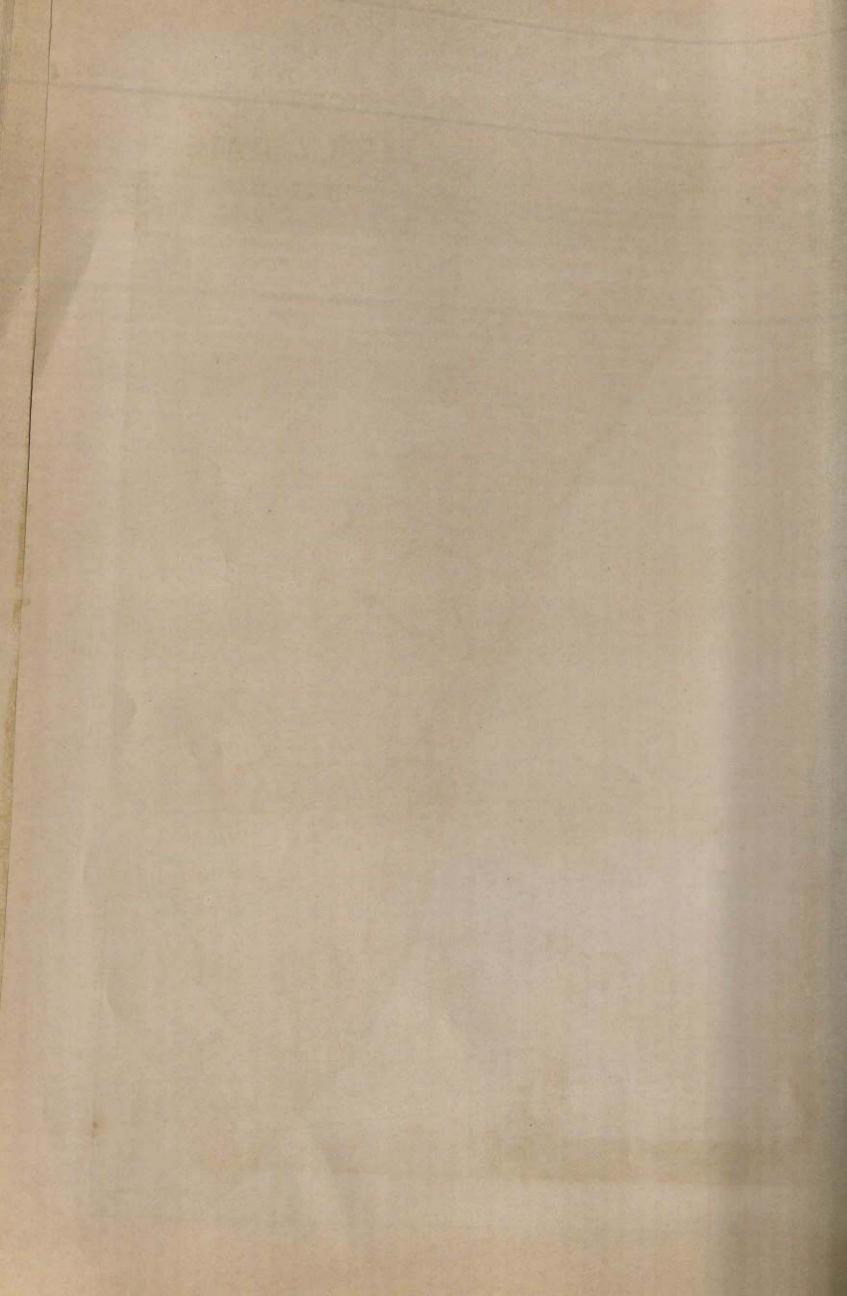


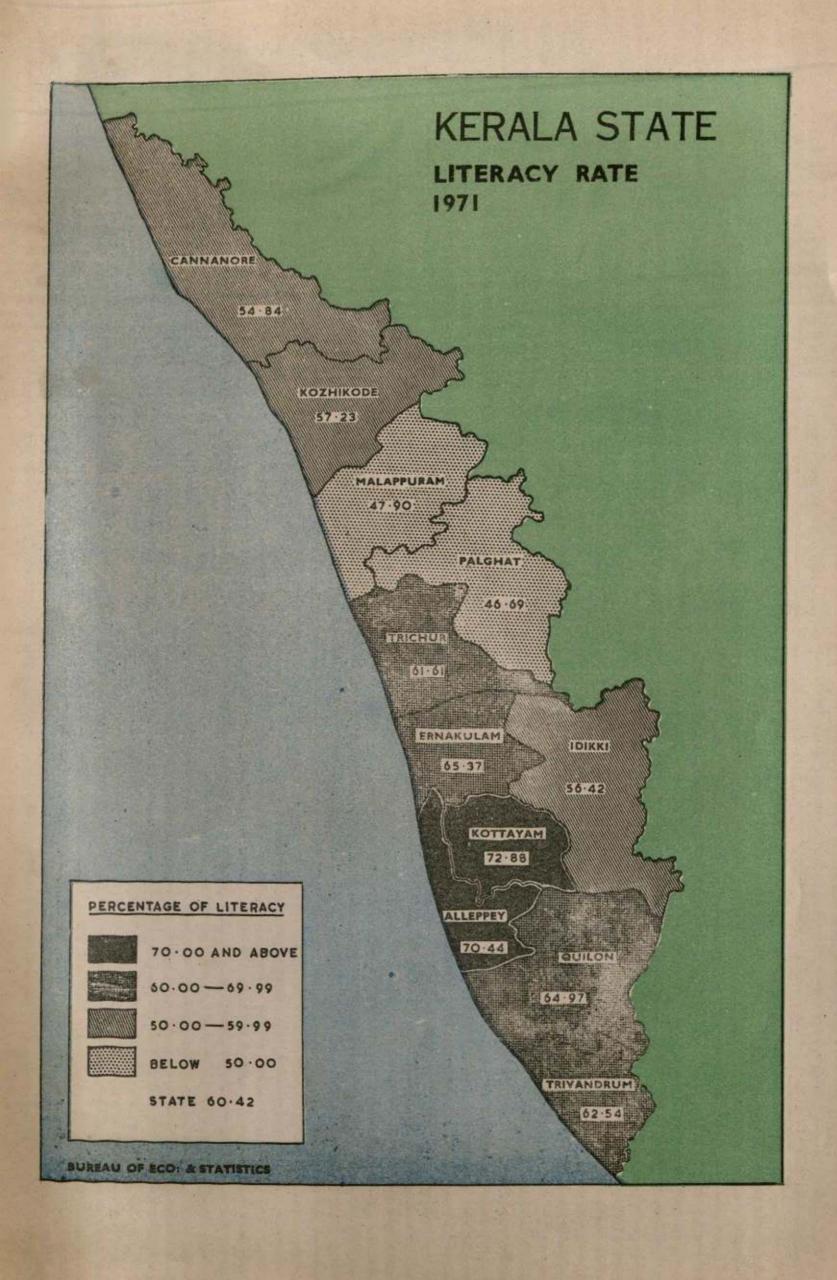
BUREAU OF ECO. & STATISTICS

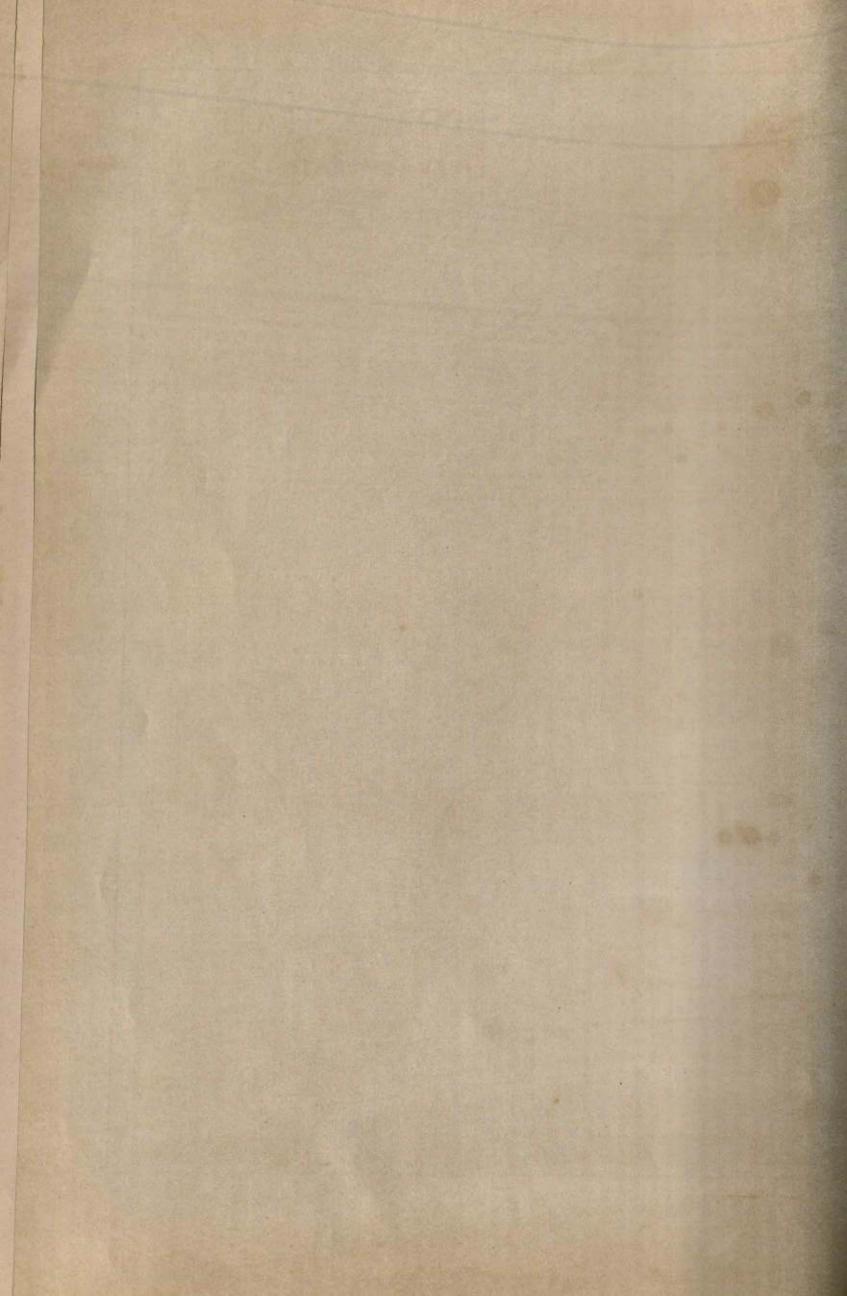
POWER GENERATION AND CONSUMPTION

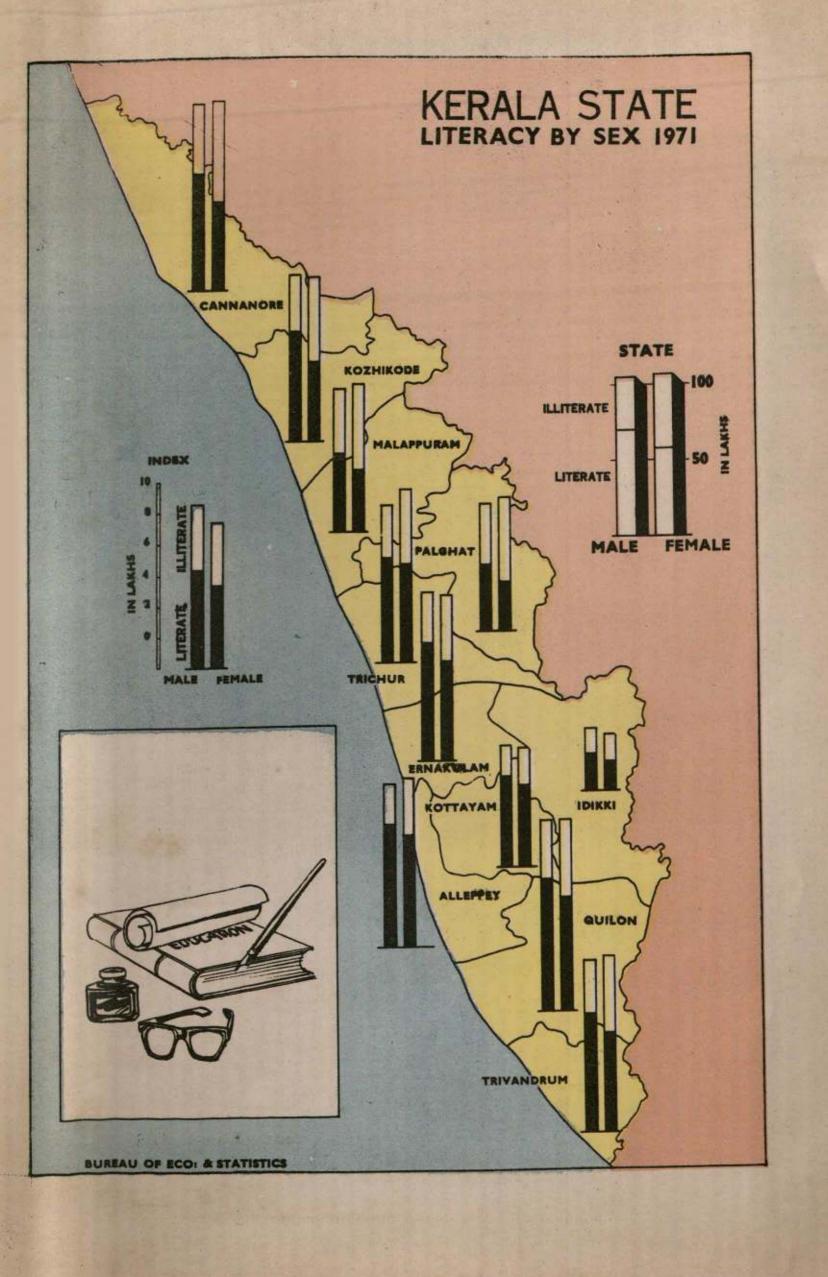


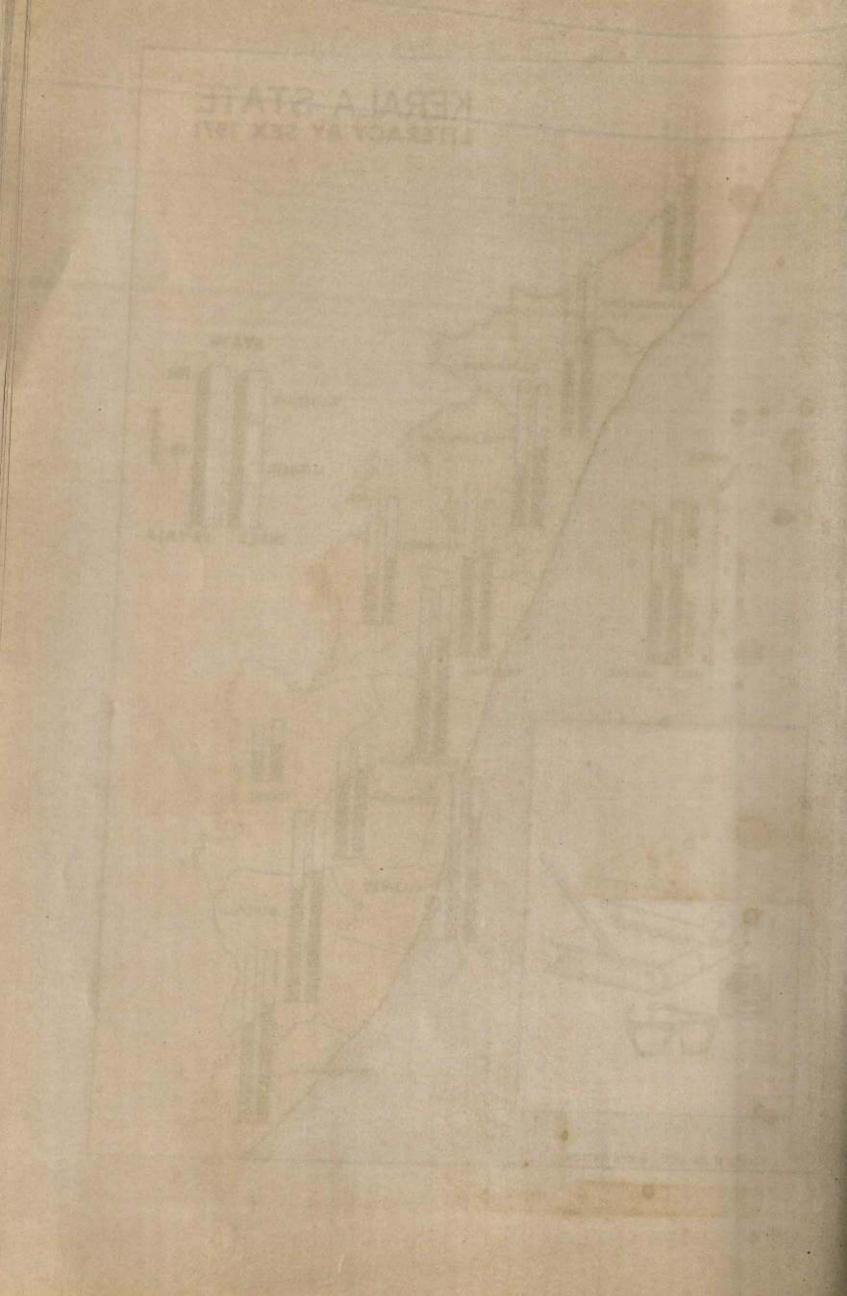


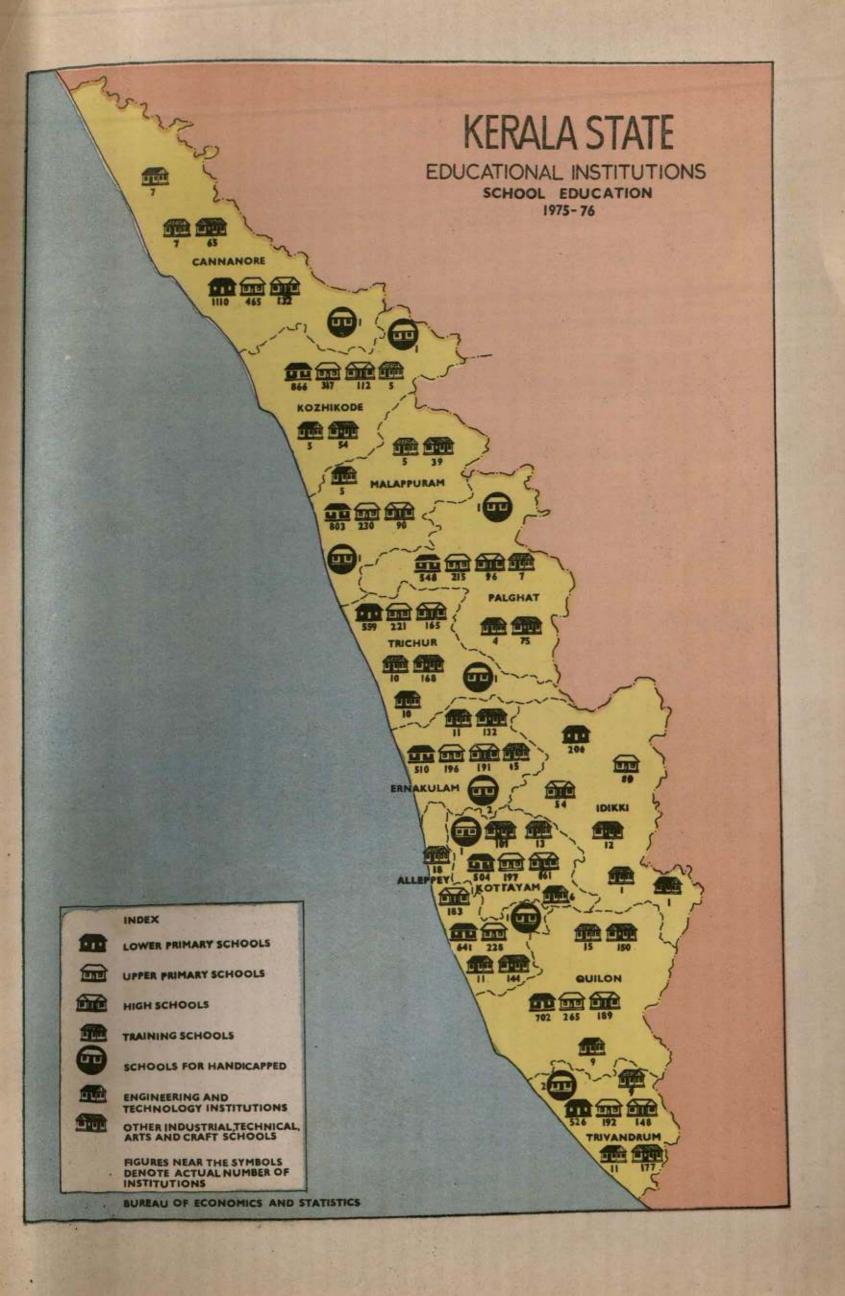


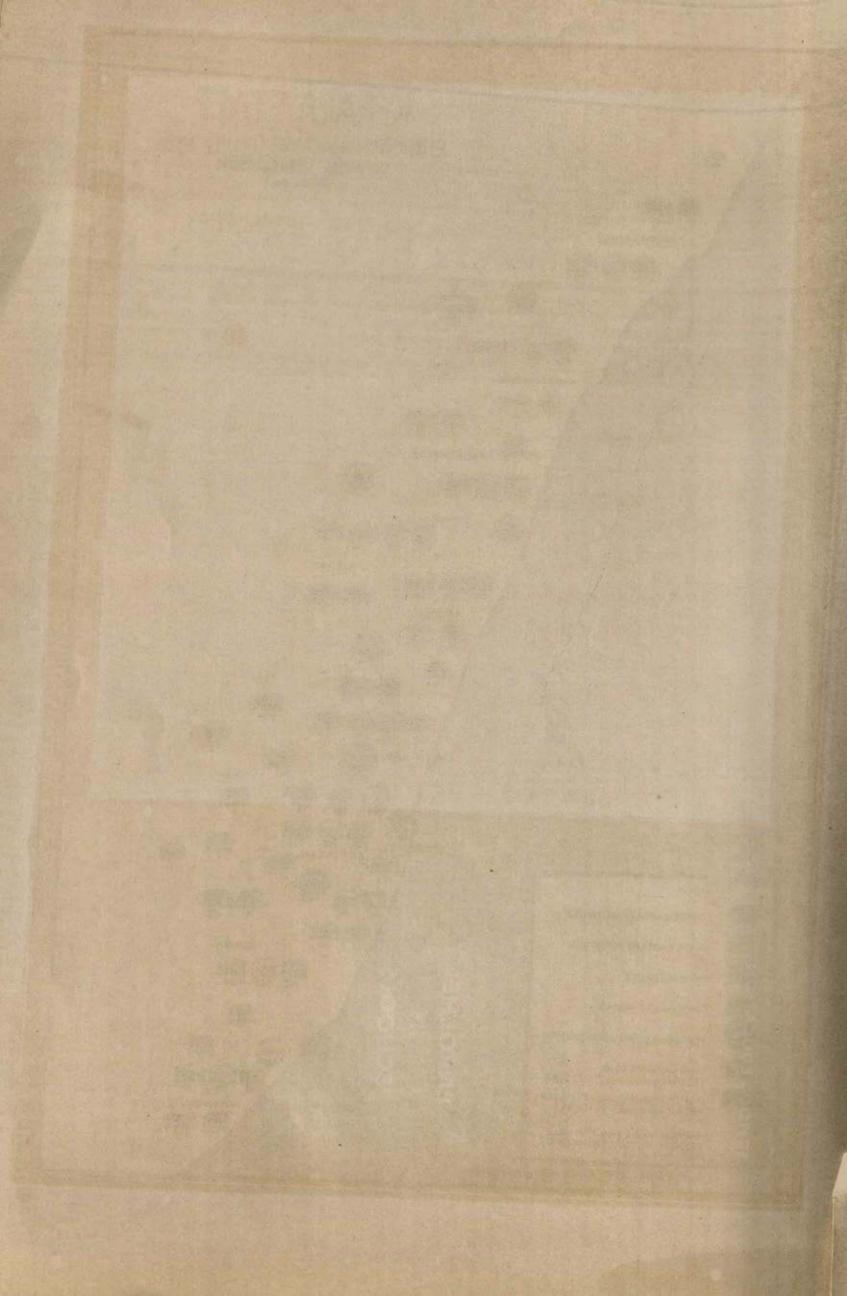


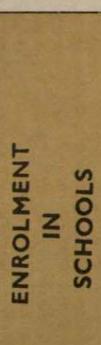


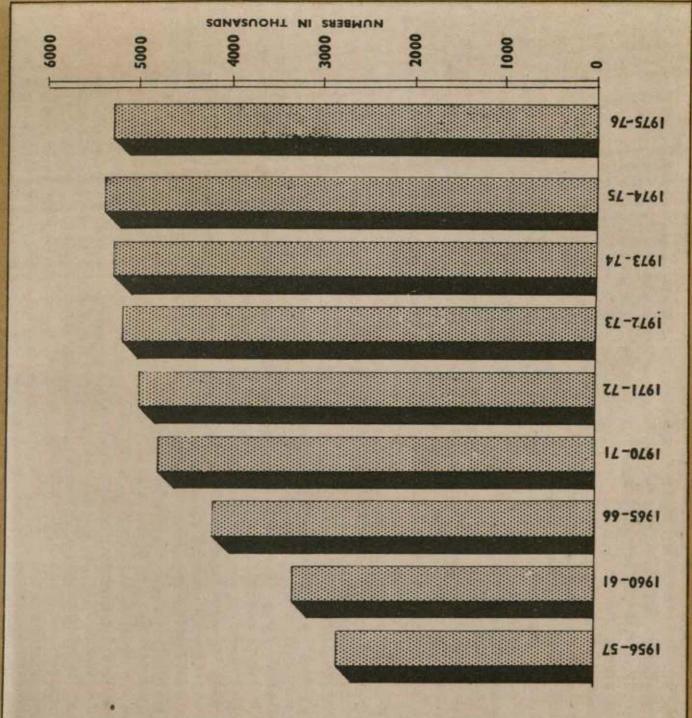






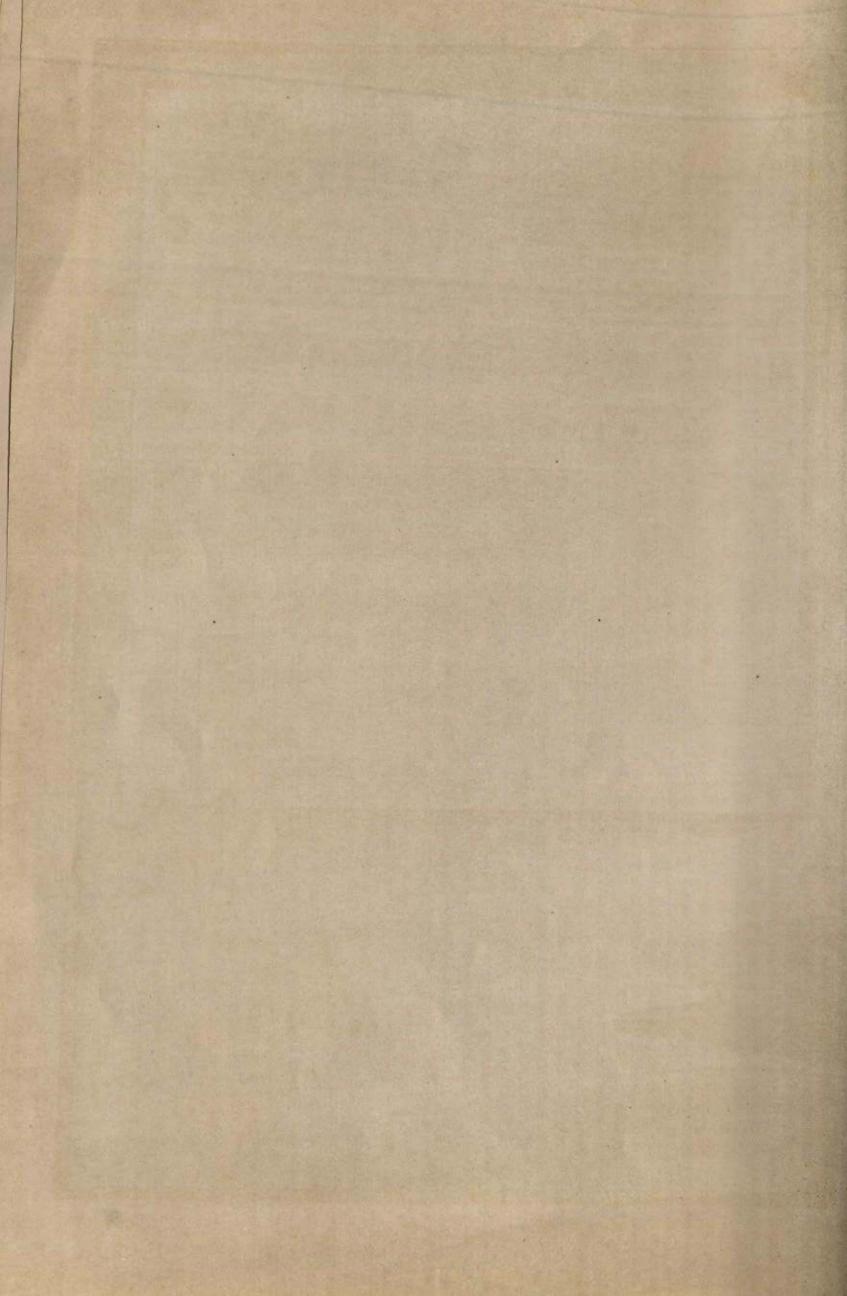




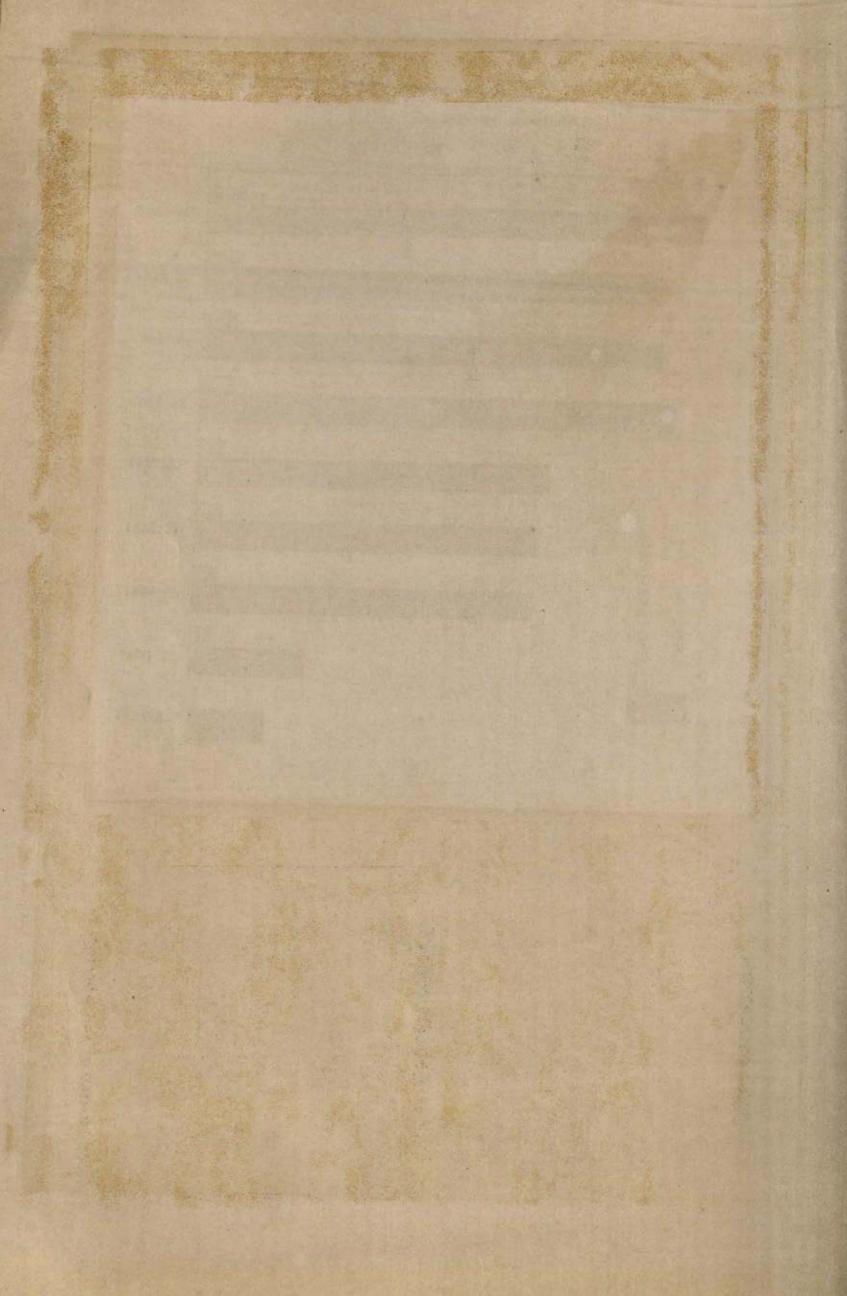


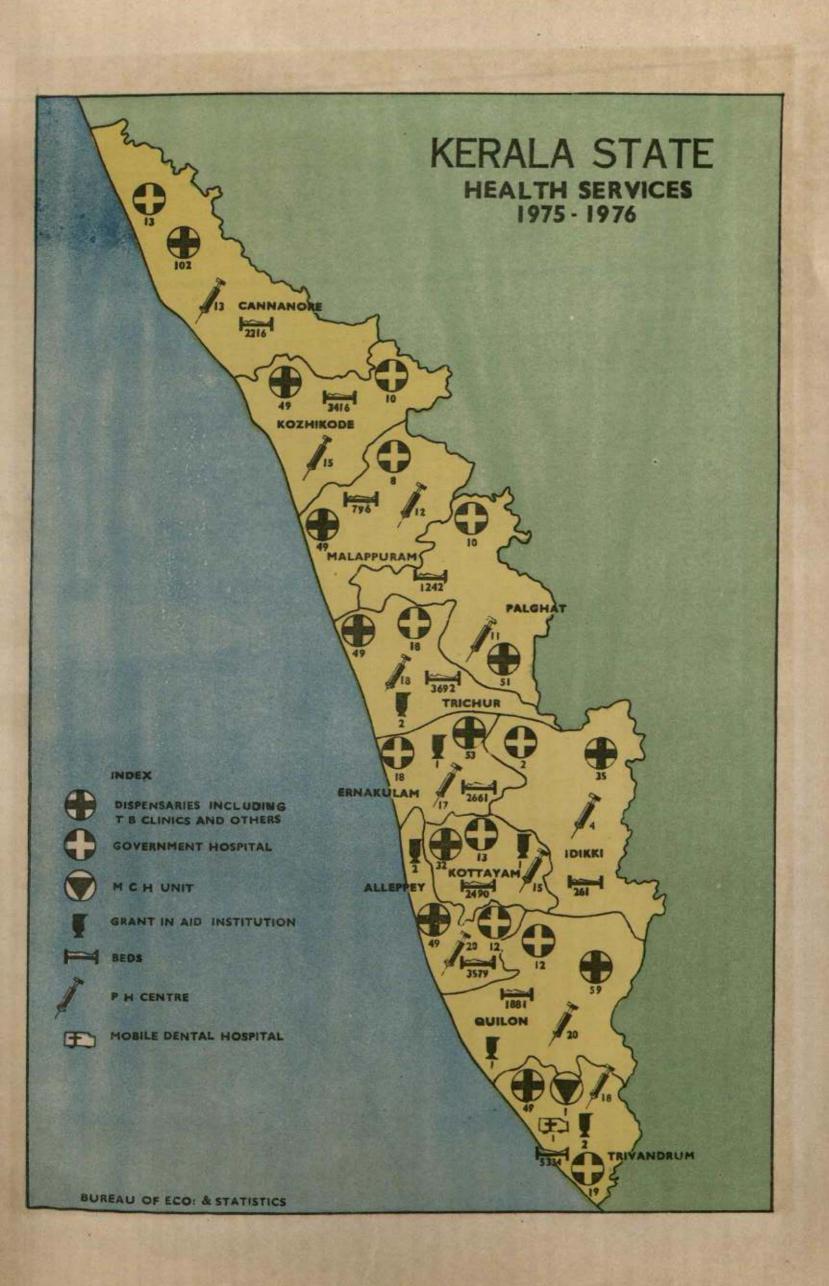


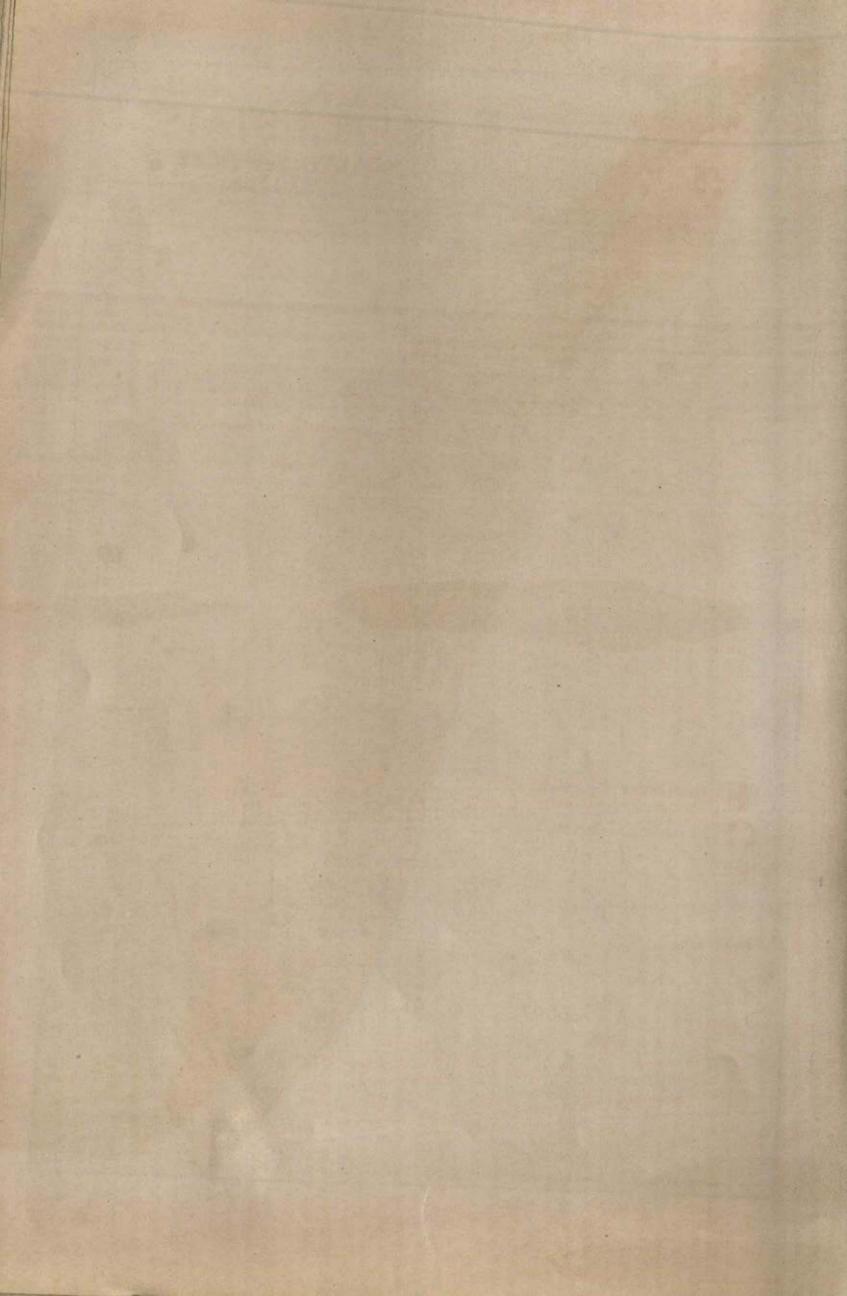


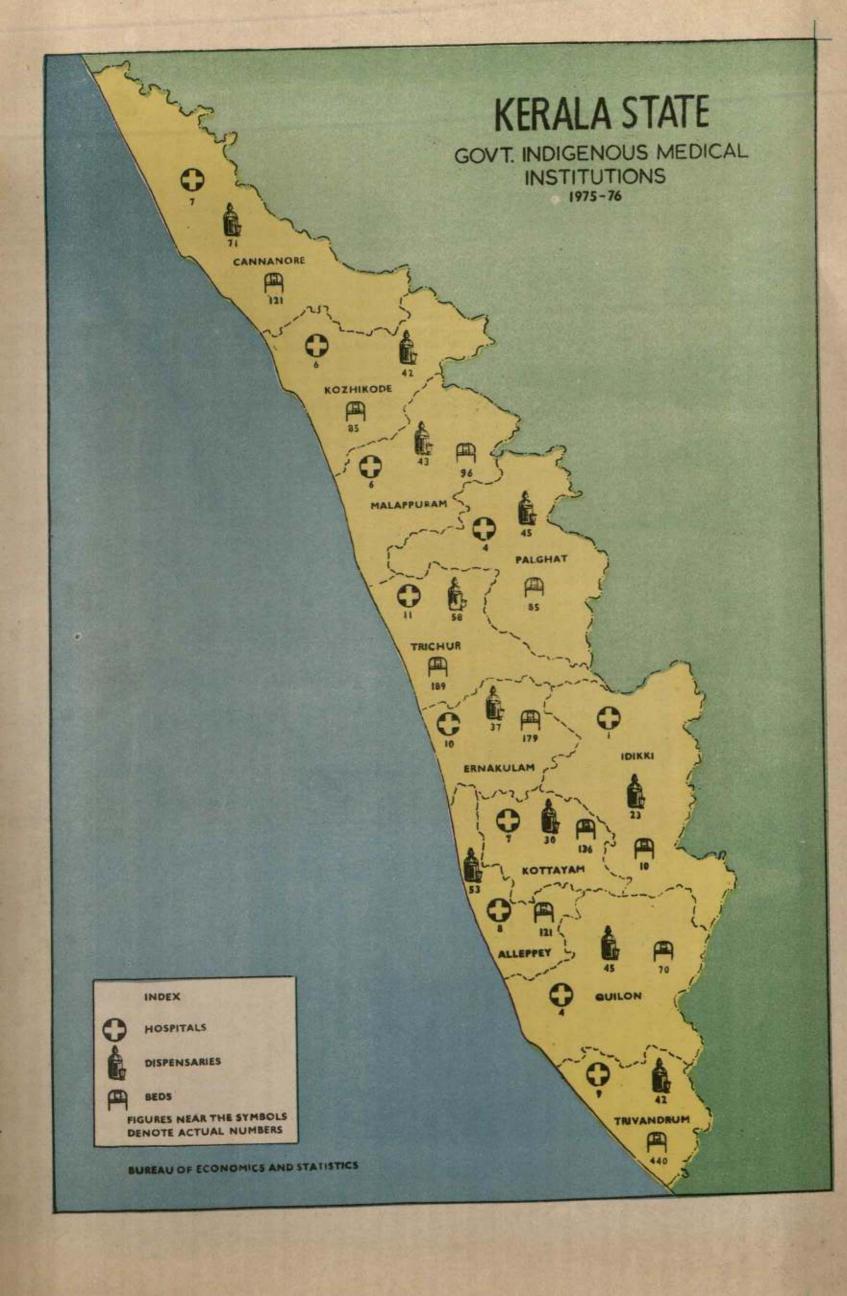


HIGHER EDUCATION









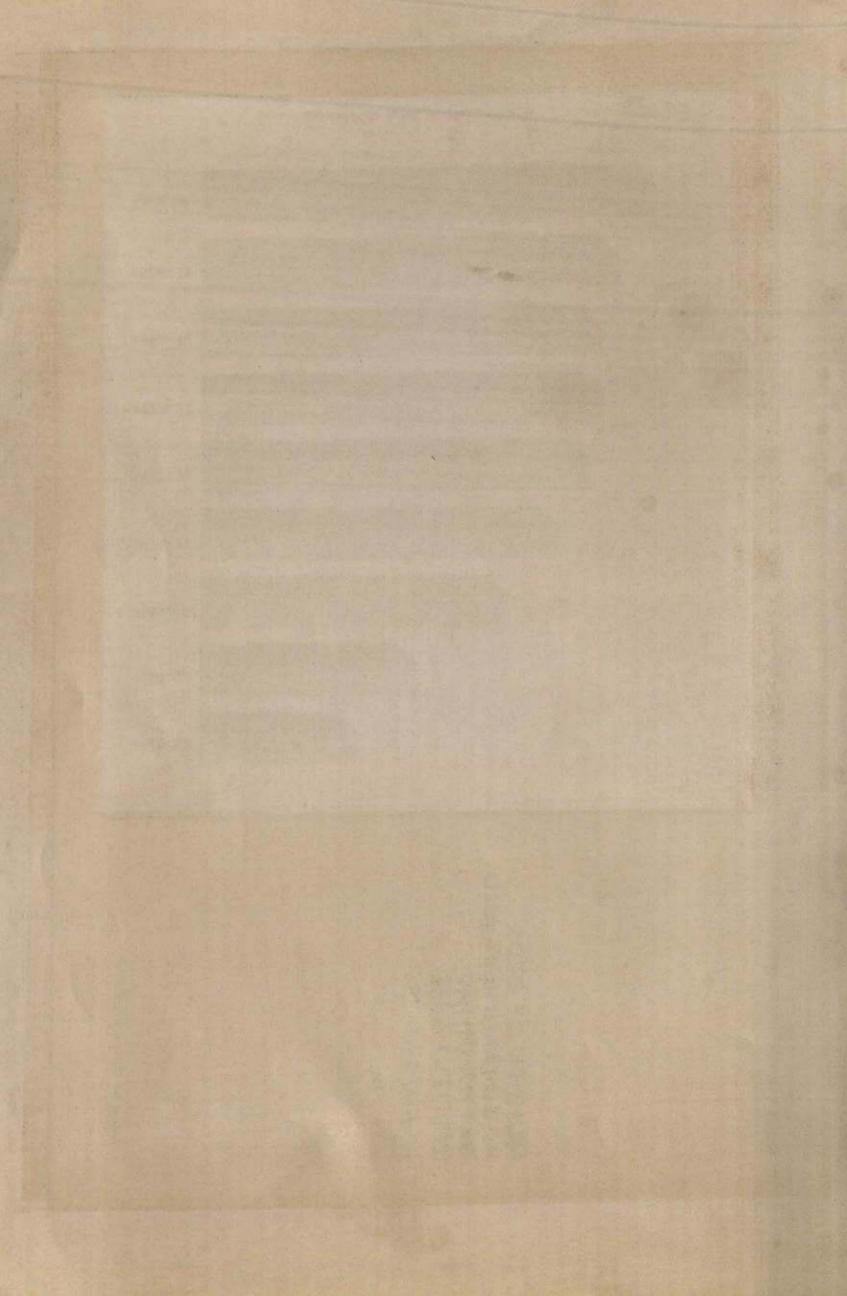


NUMBER OF BEDS

MODERN MEDICINE

NUMBER OF BEDS IN THOUSANDS

9



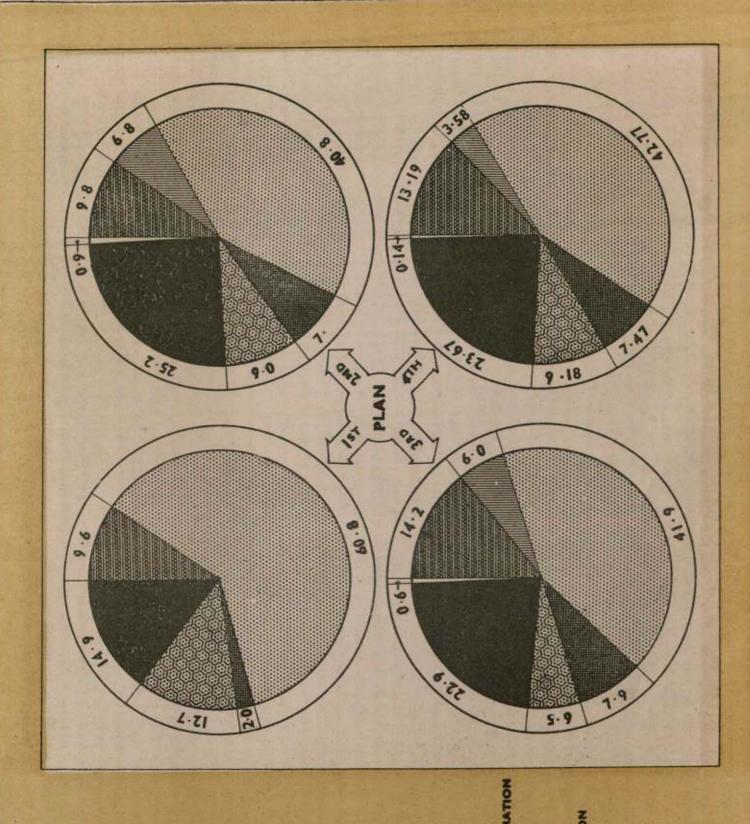
FIVE YEAR PLANS

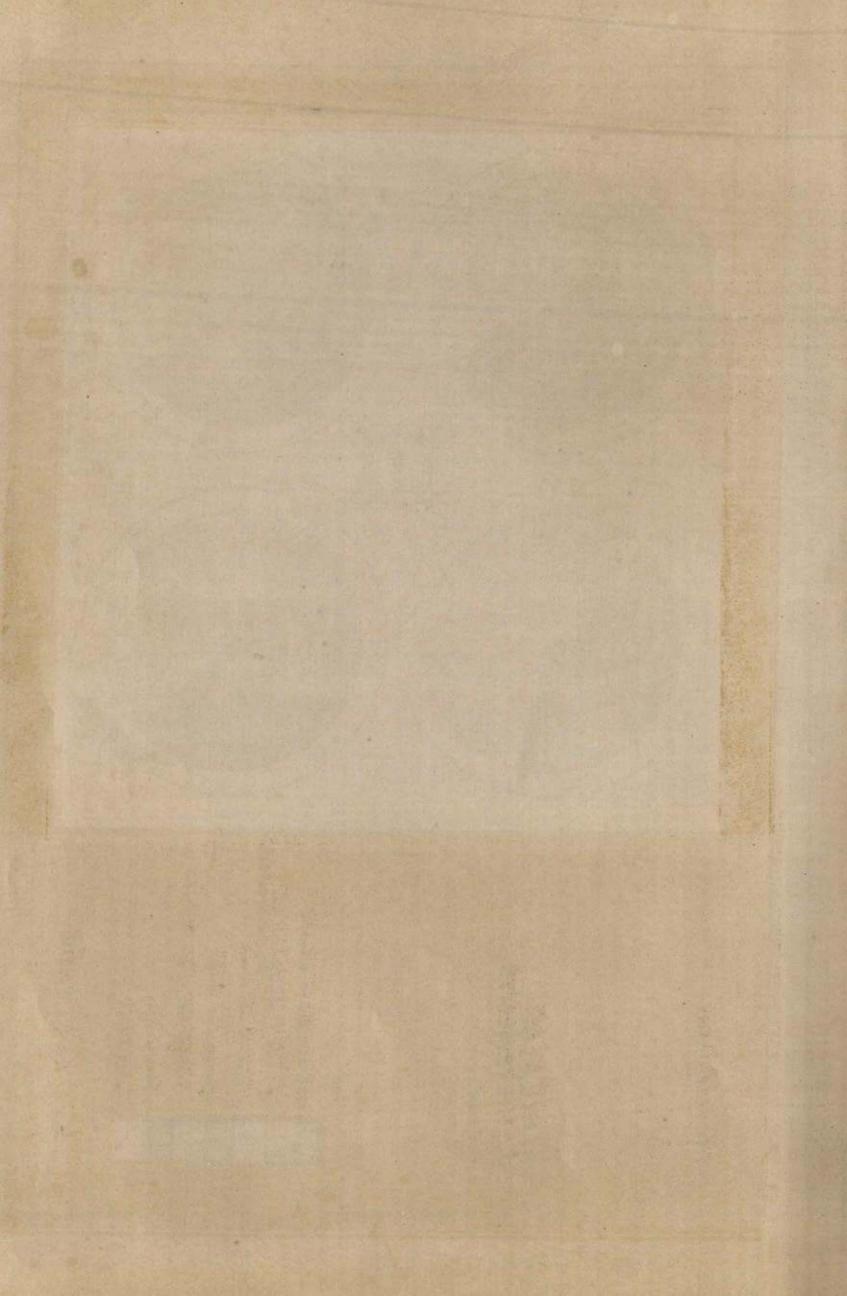
STATE PLAN ACHIEVEMENTS

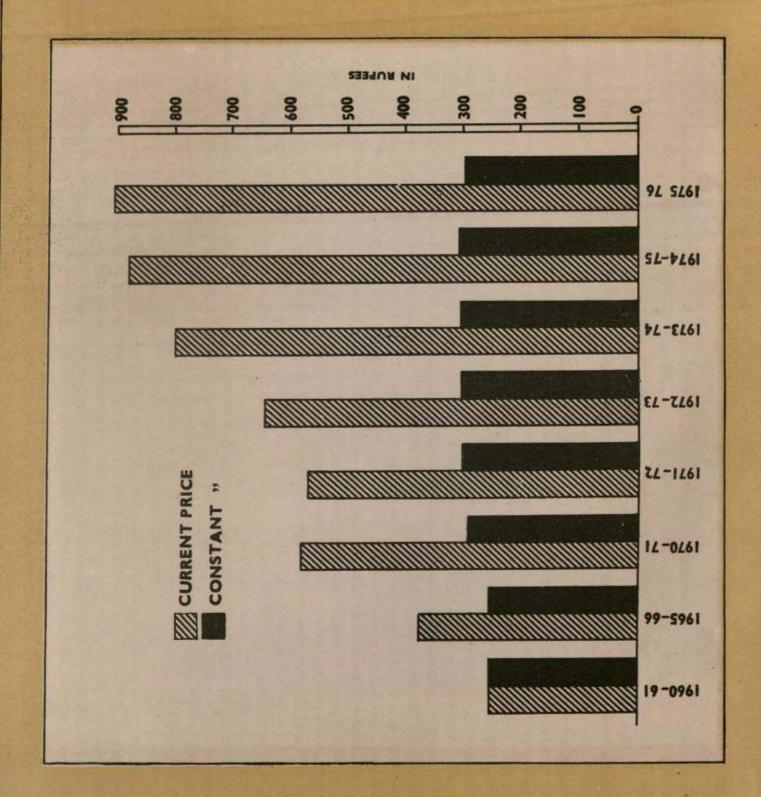
PERCENTAGE

AGRICULTURAL PROGRAMMES
COMMUNITY DEVELOPMENT AND
CO-OPERATION
IRRIGATION AND POWER
INDUSTRY AND MINING
TRANSPORT AND COMMUNICATION
SOCIAL SERVICES
MISCELLANEOUS

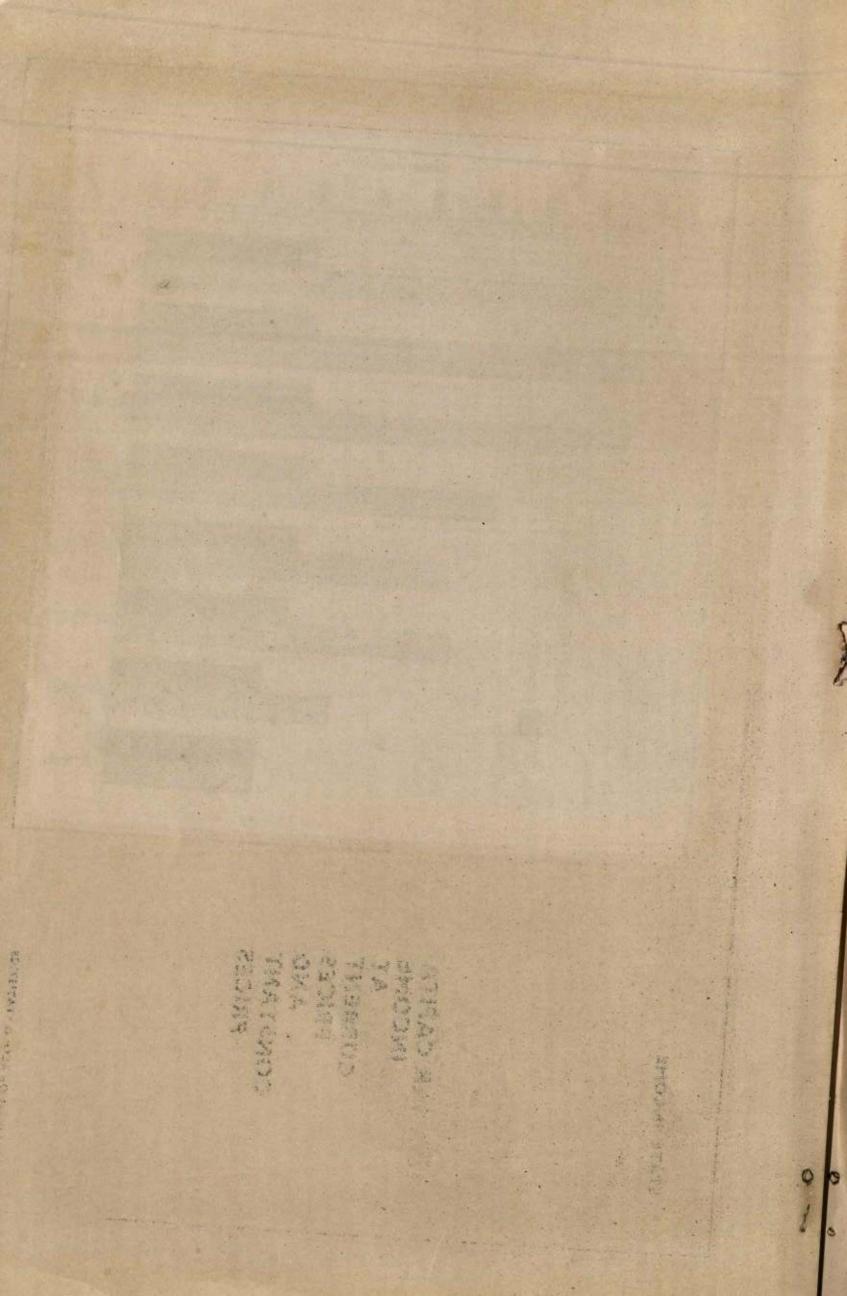
BUREAU OF ECO: AND STATISTICS

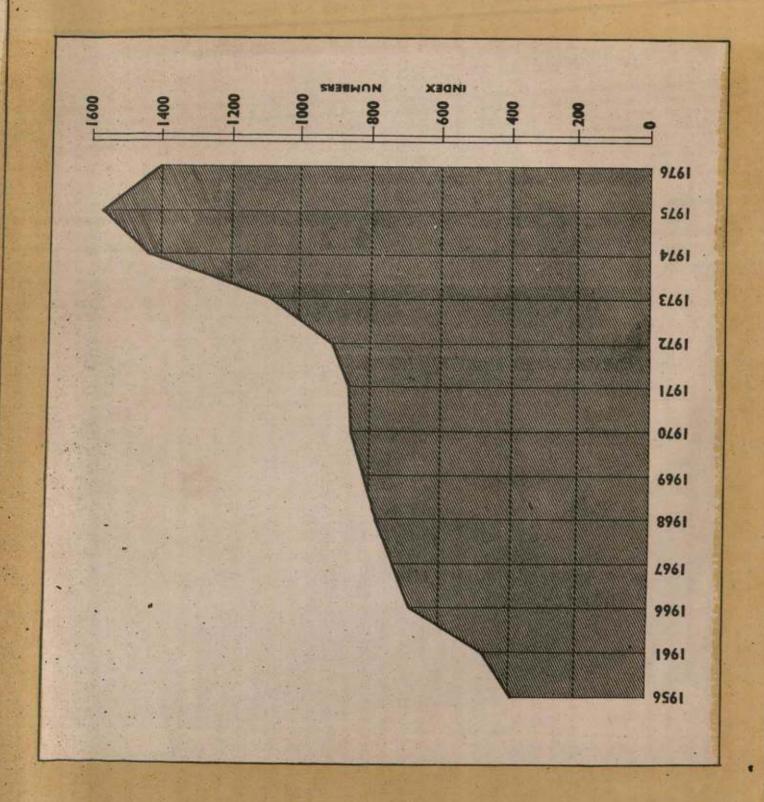






PER CAPITA
INCOME
AT
CURRENT
PRICES
AND
CONSTANT
PRICES





CONSUMER PRICE INDEX NUMBERS

BUREAU OF ECO: & STATISTICS

