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BUREAU OF ECONOMICS & STATISTICS KERALA STATE

Population Studies 109

POPULATION OF KOTTAYAM DISTRICT

APRIL, 1971

Total NR & SH

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CONTENTS

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PREFACE

- I. Introduction
- II. Size and growth of the population
- III. Distribution of population
 - IV. . Composition of population
 - V. Literacy and Education
 - VI. Occupational structure
- VII. Fortility
- VIII. Mortality
 - . IX, Progress of family planning
 - X. Summary and conclusions



PREFACE

This report gives a detailed account of the different characteristics of the population of the Kottayam District utilising mainly the data from the 1961 population census and the dir fferent publications issued by this Bureau. The report was prepared by Shri G. Somasekharan Mair, Senior Research Assistant, Kottayam District.

The report was reviewed and edited by the Population Division of the Bureau in which work Shri N.V.George, Research Officer, Shri P.S. Gopinathan Nair, Assistant Director and Shri S.B. Iyer, Deputy Director were accomiated.

Bureau of Economics I and Statistics, Trivandrum, 12-4-71 I

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1. Introduction:



- 1.1 The object of this report is to discuss the various characteristics of the population in Notteyan District and the problems and implications based upon the same.
- of many territorial re-adjustments in the past few years. Till the integration of the princely States of Travancers and Cochin, Kottayam was the northern most District of Travancers. In 1951, the then existing area of the District was divided into eight taluks. On 1st October 1956, two new taluks. Whusbanchola and Kanjirappally were formed. After one month a pertian of the District was taken away to form the new Kuttanca taluk which was under the jurisdiction of the District taluk which was under the jurisdiction of the District taluk the formation of Alleppey District on 17th August 1957. With the formation of the new Ernskulam District on 1st April, 1958, Thodupush and Musattupushs taluks of the former Febtayam District became part of Ernskulam District. The boundaries of the District as at present were thus fixed one 1st April 1958.
- 1.3 This District, lying between north latitudes 90 151 and 100 211 and east longitudes 760 221 and 770 251 is bounted by Ernakulam, Dirichur Districts of Keunla and Districts of Tamil fadu on the north, the western ghats on the east, Quilon and Alleppey Districts on the south and by Alleppey District on the west.
- 1.4 With an area of 6360 Sq.Km. (2455.54 Sq.miles) and a population of 17,32,880 persons (1961 census), the Kottayam District occupies the first rank in respect of area and the sixth rank in respect of population among the ten Districts in Kersla. The District is divided into eight taluks viz. Devicolam, Udumbanchola, Meenachil, Vaikom, Kottayam, Changanacherry, Kanjirappolly and Peermade each under the charge of a Tahsildar, for administrative purpose.
- 1.5 Among the eight toluks in the District, Devicolam has the largest area (1774.15 Mm) followed by Peermade (1807.82 Km) while Changenscherry, with an area of 261.98 Km has the smallest area. Topographically the District can be disided into three natural regions viz. highland, midland had leviand. The highland region covers an area of 4368 Sq. Fm. (78%), the midland region occupies an area of 1298 Sq. Km. (21%) and the remaining area of 399 Sq. Km. (6%) is occupied by the leviand region.
- The Head of the District administration is the District Collector, who is assisted for revenue administration by two Revenue Divisional Officers, one at Kottayam and the other at Devicolam. All the major Departments have their District Offices in the District. There are 13 Development Blocks in this District. The smallest unit for revenue administration is the revenue village and that for local bodies administration is the Panchayab. At present there are 101 revenue villages in this District and the entire area is divided into 98 Panchayats and four Municipalities.



which bounds the District on its eastern side, deminstes the topography of the District and shapes its climate. Rice, coconst, Tapices and vegetables are predominantly grown in the rector region of the District whale plantation crops like Tea, Rubber and Cardamon are grown in plenty in the eastern hilly regions. In fact Rottayam District is famous for its Tea plantation and a major part of the economy of this District is based on the cultivation of each crops. This District is also famous for Anamudi, the highest peak of the mountains south of the Finaleyes, the Game Sanctuary near the Pariyar lake which is believed to be smore the best of its kind, hydro-electric schemes at Pallivasal, Sengulam etc. and a quite large number of antient religious and educational institutions.

II. Size and growth of the population

2.1 According to the 1961 census, the total population of the District is 17,32,880. The following table gives the area and population in the various Districts of Korala.

Table II(a): Area and population in Kerela - District-wise -

District	Area			Populati	.on
DISCIECO	Se-miles	Eq. Ka.	Rank	In Lakhs	Rank
1	2	1 2 1	A	E,	S
Trivendrum	843.98	21.85.00	9	17.45	5
Quillon	1827.22	4732.50	3	19.41	112
Alloppey	708.03	1834.00	1.0	18.11	3
Kottayam	2455.54	6350.00	1	17.83	6
Ernakulam	1289.46	3339.50	7	18.60	2
Trichur	1159.93	2994.00	8	16.89	7
Palghat .	1581.06	4113,00	4	13.41	10
Malappuram	1512.64	3011.00	5	14.16	9
Kozhikode	1432.82	3711.00	6	15.88	8
Cannanore	2191.25	5675,00	2	17.80	4
Kerala	15002.03	38855.00	169.04	169.04	~

Among the taluks, Changanacherry has the highest density (2218/Sq.mile) followed by Nottsyam (2025/Eq.mile) and the lovest density is for Devicolam taluk (120/Sq.mile). It is also to be mentioned that the density has shown an increasing trend in all the taluks in this Destrict.

The growth of population is ordinarily measured by its size, yearly percentage variation and the geometric rate of growth. All these canalls for the District as well as for the



State are given below:

Table II() Variation of population since 1901

	**************************************	Kerala St	ate]	Yottoy m District					
Yoa r	Popula- tion	Decade varie- tion	%ago de- crde va- riation	Geome- trical rate of growth	o f	Decade varia- tion					
1	2	3	4	5	6	7	88	9			
1901	6396262	••	• •	• •	475427	• •	• •	• •			
1911	7147673	751411	11.75	1.1	559989	84562	17.79	1.6			
1921	7802127	654454	9.16	0.9	6497 68	89779	16.03	1.4			
1931	9507050	1704923	21.85	2.0	889664	239896	36.92	3.1			
1941	11031541	1524491	16.04	1.5	1083329	193665	21.77	1.9			
1951	13549118	2517577	22.82	2.1	1327668	244339	22.55	2.0			
1961	16903715	3354597	24.76	2.2	1732880	405212	30.52	2.6			

(Source: 1961 Census)

The rate of growth of population for the District was always on the higher side when compared to that of the State, except for the period 1941-51 when it was slightly lesser than that of the State. This phenomenon can mainly be attributed to the large scale out-migration, from the District to the Malabar region of the State in search of better living by acquiring rore land at lesser cost. This view is further supported by the fact that there are a quite number of Christian and other families in Kozhikodo and Malappuram Districts who left their native District of Kottayam during the period from 1941-51. Another typical feature fex of the rate of growth is the considerably high rate for the decade 1921-31 for the District as well as for the State. During this period, the geometric rate of growth for the District has exceeded 3 percent per year where-as for the State as a whole it was only less than two percent. The reasons that could be atributed to this may be more than one. But the same trend has been noticed in the history of Indian population growth, where the year 1921 is considered as the "great divide". The failure to grow from 1911 to 1921 was the result of the great influenza pandemic of 1918-19, which was severe in India. Being a part of the nation, Kerala and Kottayam District was not an exception to this general rule. This, coupled with the slight over estimation in the 1931 census count for India as a whole, will account to a great extent for the comparatively high rate of growth of population during the decade 1921-31.

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when the taluk-wise growth rate of population sidered, the three taluks in the highland region, viz. Toursen chola, Peermade and Devicolam have shown abnormal increase since 1921, possibly due to the fact that these hilly talks have been considerably utilised by the hard working agriculturation rists during the last fifty years especially during the interdecade of the present century. Inter-district and to some extent inter-state migration mainly from the neighbouring Districts of Tamilnadu might have played an important role in the past. The comparatively large improvement in plantation cultivation like Ten and Rubber also might have attracted persons from the bordering Districts.

III. Distribution of population

- 3.1 An idea of the distribution of population among the different regions, categories etc. are of great importance for a scientific study of the population problem of a region. An indication of the distribution of population is the population density. Besides, the proportion of the population between the urban and rural areas of the region is considered as an index of industrial development which further leads to assess the standard of living of the inhabitants.
- 3.2 The distribution of population in the natural regions and the taluks of the District give a picture of the uneven distribution of the population in the District. The overall density of the District is 272 persons per Sq.Km. (706 per Sq. mile) as against 435 per Sq.Km.(1127 per Sq.mile) for the State. The District has got the lowest density among the Districts of the State. The following table gives the density of population of the various Districts and rank of the District according to density.

TABLE III(a)

•	. De	ensity	<u> </u>
Name of District	per Sq.mile	Per Sq.Km.	Rank
Trivendrum	· 2067	798	2
Quilon	1062	410	6
Alleppey	2558	988	Ţ
Kottayam	706	272	10
Ernakulam	1442	557	4
Trichur	1455	573	` 3
Palghat	844	326	. 8
Malappuram	938	362	7
Kozhikode	1108	428	5
Cannanore	813	314	9
Kerala	1127	435	

(Source: 1961 Census)

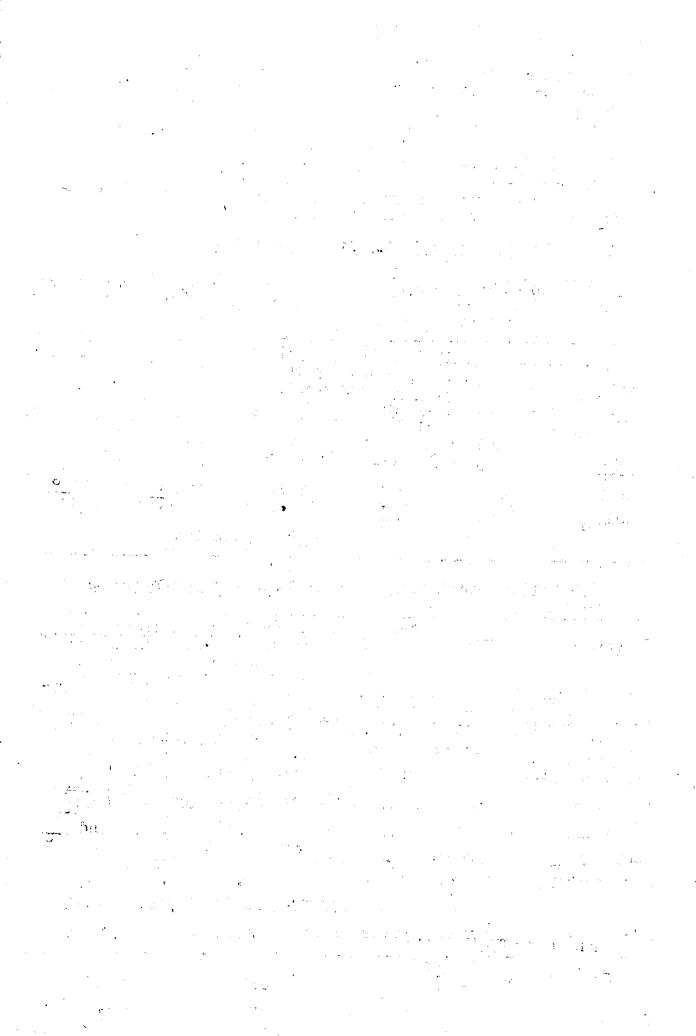
3.3 The density of population has shown substantial increase since the beginning of the present century. In 1901, the density was only 75 persons per Sq.Km. (194 per persons per Sq.mile), but by 1961, the density rose to the high figure of 272 per Sq.Km. (706 persons per Sq.mile) recording an increase of more than 3½ times during a period of sixty years. The corresponding figure of the State, as a whole is only 163 per Sq.Km. in 1901, 435 per Sq.Km. in 1961. The table below gives the density of population for the District and the State for all the censuses since 1901.

TABLE III(b) Variation in Density since 1901

	Density(per		·	Density(per	rsons/Sq.Km)
Year	Kottayam District	Kerala State	Year	Kottayam District	Kerala State
1	2	3	1	2	3 .
1901	7 5	163	1961	272	435
1911	88	181	1966(*)	315	493
1921	102	201	1967(*)	325	506
1931	140	245	1968(*)	335	519
1941	170	284	1971(*)	354	533
1951	209	349	÷	•	
		-	(*) Es	timated	•

TABLE III(c) Population by natural regions - Taluk-wise

	Hig	hland	Midla	nd	Lowla	nd
Taluk		Percen- tage	Actual	Percen- tage	Actual	Percen- tage
1	2	3	4	5	6	7
Changanacherry	••	•• .	196451	21.66	27980	11.03
Devicelan	123155	21.52	• •	• • •	• •	• •
Kanjirappally	72112	12.60	76674	8.45	• •	• •
Kottayam	• •	• •	318438	35.12	103601	40.84
Meenschil	878 78	15.35	221952	24.48	• •	• •
Peermade	133635	23.35		• •	• •	• •
Udumbanchola a	155584	27.18	. • •	• •	• •	• •
Vaikom	• •	• •	93304	10.29	122116	48.13
DIST. TOTAL	572364	100.00	906819	100.00	253697	100.00



3.4 It can also be seen from the table given below that 33.00 percent of the population live in the highland region which covers an area of 73% of the total, 52.3% live in the midland region which extends to an area of about 21% of the total and the remaining 14.7% live in the lowland regions which covers an area of 6% of the total.

. TABLE III(d) Area and population - Region-wise

<u>, , , , , , , , , , , , , , , , , , , </u>	Area (S	g.Km.)	Popula	tion	Density
Region	Actual	Fercentage	Actual	Percent-	per 3q.Km.
1	2	3 4		5	6
Highland	4663	73.00	572364	33.00	123
Midland	1298	21.00	906819	52.30	699
Lowland	399	6.00	253697	14.70	661
TOTAL	6360	100.00	1732880	100.00	372

The density of population is highest in the midland region and lowest in the highland region as naturally expected.

3.5 The taluk-wise details of the population in the District, according to each sex is given below:

TABLE III(e) Area, population and density - Taluk-wise

	Area	in	Densi	ty	Total	Populati	
Taluk		Sq.Km.	Sq. mile	Sq. Km.		Malo	Female
1	2	3	4	5	6	7	8
Changanacherry	101.15	261.98	2219	857	224431	112467	111964
Devicolam	685.00	1774.15	180	69	123155	64859	. 58236
Kanj j rappally	135.65	351.33	1017	423	148786	76631	72155
Kottayam	208.40	539.76	2025	782	422039	212077	2 09962
Meenachil	279.04	722.71	1110	429	309830	155772	154058
Peermade	504.95	1307.82	265	102	133635	69337	64298
Udumba nchol a	413.67	1071.41	376	145	155584	84090	71494
Vaikom	127.68	330.69	1687	651	215420	107347	108073
Dist: Total	2455.54	6359.85	706	272	1732880	882,580	850300

(Source: 1961 Census)

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The density of population is highest in Changaracherry followed by Kottayam and lowest in Devicolam taluk. In five out of the eight taluks the density is higher than that of the District. The three taluks where the density is lower than that of the District, lie entirely in the highland region.

3.6 The taluk-wise density (persons/Sq.mile) for the past five census reported in the following table gives some interesting conclusions.

TABLE III(f): Variation in density(1921-1961)- Taluk-wise

	Populati	ion densit	y(persons	S/Sq.mile	o)during_
Taluk	1921	1931	1941	1951	1961
1	2	3	4	5	6
Change nacherry	885	1252	1600	2043	5318
Devicolam	48	83	92	121	180 .
Kanjirappally	373	5 26	670	855	1097
Kottayam	854	1141	1387	1697	2025
Meenachil	574	722	876	1000	1111
Peermade	43	82	115	171	265
Udumbanchola	15	28	3 4	48	376
Vaikom	868	1115	1264	1432	1687
DISTRICT TOTAL	265	362	441	541	706

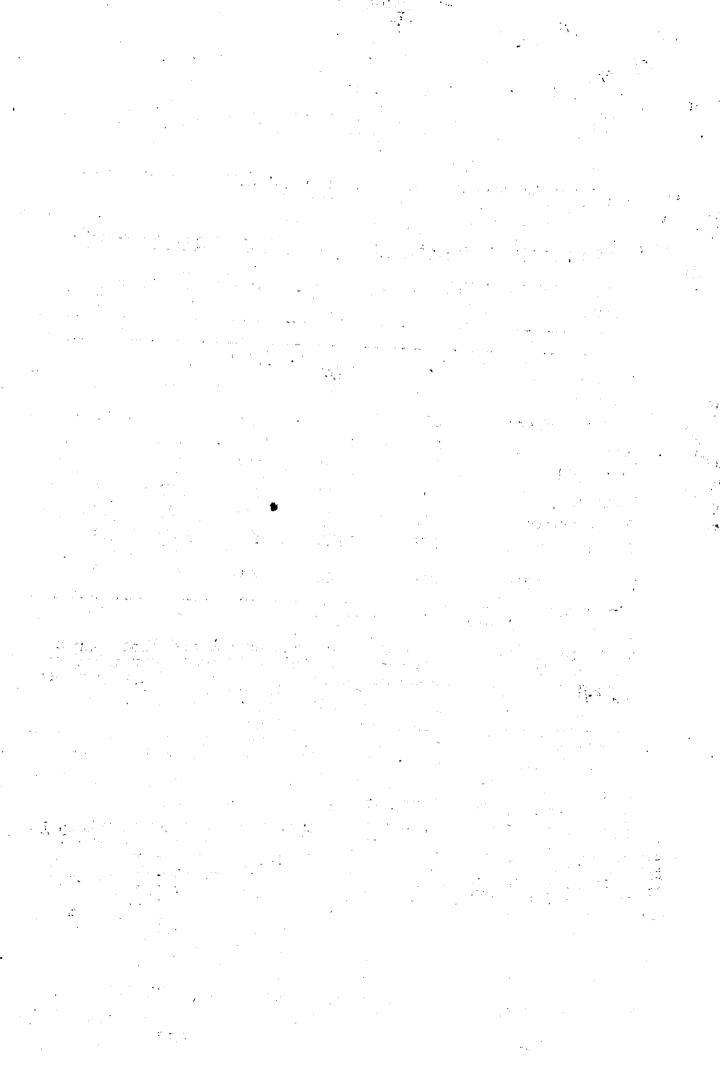
(Source: 1961 census)

While the increase in density was between two and three times for the district and four taluks, in the three taluks in the highland region, it has further increased, the maximum increase being in Udumbanchola. This has been due to the tendency of the hard working agriculturists to occupy the un-inhabited areas in the highland regions and to bring the area under cultivation. Besides this, the large scale plantations in the high land area have attracted considerable number of migrants to these areas.

<u> Urban - Rural distribution:</u>

3.7 According to the 1961 census, there are four municipal towns (Kottayam, Changanacherry, Palai and Vaikom) and three non-municipal towns (Ettumanoor, Kanjirappally and Mundakayam) in this District. The distribution of the population among the rural and urban areas in each taluk is given below:

contd....



45.8

TABLE III(g): Listribution of rural-urban populations - 1961 (Taluk-wise)

· \	an	Urb	 	cal	Rui	·	
%ngo to total	Popula- tion	No.cr towns	- %nge to total	Popula tion	No. of villages	* . Taluk	a region
7	6	5	4:	3	_ 2	1	
18.89	42376	1	81.11	182055	12	Changanacherry	
• •	• •	• •	100.00	123155	9	Devicolam	n je se
16.57	24644	. 2	83.43	124142	6	Kanjirappally]
15.54	65574	2	84.46	356465	20	Kottayam	.]
5.00	15457	1	95.00	294373	22	Meenachil	•
• •	• •	• • •	100.00°	133635	6 ′	Peermade	:
• •	• •	• •	100.00	155584	12	Udumbanchola	7
8.10	17418	1	91.90	198002	14	Vaikom	
9.55	165469	7	90.45	567411	101 1	DISTRICT TOTAL]
	17418		91.90	198002	14	Vaikom	

(Source: 1961 census)

3.8 The proportion of urban population is more than fifteen percent in the case of Kottayam, Changanacherry and Kanjirapplly taluks while that of the District as a whole is near about ten percent.

The increasing trend of urbanisation for the District as a whole, over the period from 1901 to 1961 as is revealed from the following:

TABLE III(h): Percentage of rural-urban population 1901-61

Year	Percentage p	population
TOUT	Urban	Raral
1901	6.69	93.31
1911	5.7 8	94.22
1921	8 .7 5	07 00
1931	8.80	91.20
1941	8.69	91.31
1951	11.97	88.03
1961	9, 55	90.45

(Source: 1961 census)

The sudden drop in the proportion of urban population from the year 1951 to 1961 is due to the fact that the six towns (viz. Azhutha, Ersttupetta, Munnar, Ponkunnam, Talayolsparambu and Vandiperlyar) of the 1951 census were declassified as villages in the 1961 census. During 1911 census the population of Kottayam Municipal town (one among the two towns in the District, the other being Changanacherry)

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has shown a downward trend, possibly due to the delimitation of area, which accounts for the slight decrease in the urban population during the year.

3.9 The area, population and other details of the four municipal towns in the District according to 1961 census are given below:

TABLE III(i): Area and population of municipal .towns

	Area	in	Po	pulatio	on(1961)	Dong	ity per
Name	Sq.	Sq. Km.	Total	Malo] cma.le	Sq. mile	Sq. Fig.
1	2	3	4	5	6	7	3
Kottayam	6.00	15.54	526 ⁸ 5	26850	25835	8782	3390
Changanacherry	5.12	13.26	42376	21389	20987	8277	3196
Vaikom	3.37	8.73	17418	8685	8733	51.69	1995
Palai .	5.62	14.56	15457	7937	7520	2751	1.062

(Source: 1961 Census)

Among the Municipal towns, Kottayam, the headquarters town happens to be the most densely populated one, followed by Changanacherry, an important market centre in this District.

3.10 The distribution of villages according to the population size is presented in Table III(j) below.

TABLE III(j) Distribution of villages according to population size.

	No. of	No.c	f vil	lages	with	popula:	tion	
Taluk	inhabi- tod vi- ilages	Z 200	200- 499	500 - 999	1000- 1999	2000- 4999	5000 - 9999	10000
1	2	3	4	5	6	7	8	9
Devicolam	9	• •	• •	1	3	1	• •	4
Udumbanchola	12	• •	• •	• •	1	• .•	4	7
Meenachil	23	• •	• •	• • •	• •	• •	3	19
Vaikom	14	• •	• •		• •	• •	2	12
Kottayam	20	• •	• •	• •	1	• •	1	18
Changanacherry	13	• •	• •	• •	• •	1	1	10
Kanjirappally	6		• •	• •	• •	• • •	· 1	5
Poermade	6	• •	• •	• •	1.	- %	4.50]\$
JIST: TOTAL	101		, • •	1	6	2	12	80

(Source: 1961 census)

Among the 101 Revenue Villages in this District 80 have a population of more than 10,000, 12 fall in the category of

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population size between-5000 and 9999, 2 villages have population between 2000 and 4999, six between 1000 and 1999 and one village comes under the category with population size between 500 and 999. The 101 Revenue villages are further divided into 509 census villages (Karas).

3.11 It may be noted that though the area of the District covers 16.2% of that of the State, it accounts only for 13.2 percent of the total cropped area of the State. 47.08% of the total area of the District is uncultivable (being under forest, barren and non-agricultural uses) and the available cultivable land is only 52.92% of the total. The density with reference to the availability of cultivable and therefore, works out to 1331 persons per Sq.mile (514 persons per Sq.Mm.)

IV. Composition of population

- 4.1 The age and sex composition of a population is of utmost importance not only for population analysis, but also for planning and administrative purposes. Among the two, age composition is considered to be more important as it is the basis for planning for educational facilities, employment opportunities and old age benefits. In the same way sex composition is important for taking account of the maternal and child welfare activities and the like. In the present situation when the country as a whole is facing unprecedented growth rate of population, retarding the efforts for economic development, data relating to population composition and their implications are all the more important. In fact, the foundation of the family planning programme is based on these information. As such it may not be out of place to have a short discussion on the age and sex composition of the population of the District in comparison with that of the State.
- 4.2 The population according to age can be broadly grouped into five distinct categories as follows:

	Age group	
1. Infants and young children	0 - 4	
2. Boys and girls	5 - 14	
3. Young men and women	15 - 34	
4. Middle aged men and women	35 - 54	
5. Elderly persons	55 and above.	

This classification, eventhough a broad one, gives a clear idea of the level of dependency and other important impligations of this important population characteristics. The proportion of population falling under each of the above groups, for the District as well as for the State is given below:

TABLE IV(a): Age distribution of population

***************************************	Category	Age group	<u>Percentago</u> Kottayam	under each Kerala
2. 3. 4.	Infants and young children Boys and girls Young men and women Middle aged men & women Elderly persons	0 - 4 5 -14 15 -34 35 -54 55 & ahove	15.1 28.1 31.6 17.2 8.0	15.8 25.2 33.5 17.6 7.9
	TOTAL	All ages	100.0	100.0

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The base heavy nature of the population of the District as well as that of the State is a general phenomenon of the developing countries. The percentage of population under the age 15 is 43.2% for the District while that of the State is 41.0% only. Similarly the proportion of elderly persons is 8.0% for the District against the corresponding figure of 7.9% for the State. Higher proportion under these two age groups increases the dependency burden on the working population. Even among the population in the working age group, a considerable percentage will be unemployed and under-employed which adds further burden on the earners. The proportion of the population in the age group 15 - 54 is 51.1% for the State while that of the District is only 48.3%. Norked out on this basis the total dependency ratio (proportion of the population under age 15 and above age 55, to the population in the age group 15 - 54 expressed as percentage) for the District is 104.9 against a corresponding figure of 95.7 for the State.

Sex composition

4.3 If the sex-wise distribution is compared along with the age-distribution, it will throw light on some important features of the population. The following table gives the details of age and sex distribution separately for the rural and urban areas.

TABLE IV(b): Age and sex distribution of population in Kottayam

- ~*					
Rura	1	Ur	ban	Tot	tal
Male	Female	Male	Female	Male	Female
2	3	4	5	6	7
15.12	15.33	14.07	14.00	15.02	15.21
		13.93	13.91	15.00	15.30
		12.76	13.24	12.78	13.11
	·	9.53	10.08	8.14	8.78
		9.10	9.31	8.60	9.12
		7.94	8.18	7.84	8.17
		6.76	6.00	6.46	6.13
		6.26	5.63	6.37	5.31
	3.72	4.15	3.94	4.21	3.74
	3.93	4.22	3,98	4.35	3.93
	2.76	3.09	3.12	3.15	2.80
	2.49	2.68	2.74	2.70	2.51
		2.00	2.08	1.94	1.85
3.44	3.52	3.51	3.79	. 3.44	3.54
100.00	100.00	100.00	100.00	100.00	100.00
	Male 2 15.12 15.12 15.12 12.78 8.00 8.55 7.23 6.43 6.33 4.21 4.36 3.15 2.70 1.93 3.44	2 3 15.12 15.33 15.12 15.45 12.78 13.09 8.00 8.64 8.55 9.10 7.23 8.17 6.43 6.15 6.33 5.82 4.21 3.72 4.36 3.93 3.15 2.76 2.70 2.49 1.93 1.83 3.44 3.52	Male Female Male 2 3 4 15.12 15.33 14.07 15.12 15.45 13.93 12.78 13.09 12.76 8.00 8.64 9.53 8.55 9.10 9.10 7.83 8.17 7.94 6.43 6.15 6.76 6.33 5.82 6.26 4.21 3.72 4.15 4.36 3.93 4.22 3.15 2.76 3.09 2.70 2.49 2.68 1.93 1.83 2.00 3.44 3.52 3.51	Male Female Male Female 2 3 4 5 15.12 15.33 14.07 14.00 15.12 15.45 13.93 13.91 12.78 13.09 12.76 13.24 8.00 8.64 9.53 10.08 8.55 9.10 9.10 9.31 7.23 8.17 7.94 8.18 6.43 6.15 6.76 6.00 6.33 5.82 6.26 5.63 4.21 3.72 4.15 3.94 4.36 3.93 4.22 3.98 3.15 2.76 3.09 3.12 2.70 2.49 2.68 2.74 1.93 1.83 2.00 2.08 3.44 3.52 3.51 3.79	Male Female Male Female Male 2 3 4 5 6 15.12 15.33 14.07 14.00 15.02 15.12 15.45 13.93 13.91 15.00 12.78 13.09 12.76 13.24 12.78 8.00 8.64 9.53 10.08 8.14 8.55 9.10 9.10 9.31 8.60 7.23 8.17 7.94 8.18 7.24 6.43 6.15 6.76 6.00 6.46 6.33 5.82 6.26 5.63 6.37 4.21 3.72 4.15 3.94 4.21 4.36 3.93 4.22 3.98 4.35 3.15 2.76 3.09 3.12 3.15 2.70 2.49 2.68 2.74 2.70 1.93 1.83 2.00 2.08 1.94 3.44 3.52 3.51 3.79

(Source: 1961 census reports)

- than that of the males upto the age thirty, while for ages above thirty the reverse phenomenon occurs. Similarly the proportion of females in the reproductive age group (ages 15-44) is only 42% for the District against the corresponding figure of 44% for the State as a whole. No specific reasons could be attributed to this without going into further detailed enquiries in the matter. But in general, the lesser proportion of females in the reproductive and working age groups can be due to the effect of so many factors, like higher maternal death rate, higher proportion of females going out in search of employment, higher number of males in the working age groups etc.
- 4.5 In this District, women in the reproductive age group account for 41.6% and 43.1% of the respective female population in rural and urban areas. The corresponding figures for the State are 39.9% and 43.8% respectively. Male labour force population (15 59) shares 51.6% and 53.9% of the total male population in rural and urban areas respectively, against the corresponding figures of 51.1% and 53.9% for the State. The population of younger age group 0 14 is relatively higher in rural than in urban as in the case of the State.
- 4.6 A comparatively simpler index to study the sex distribution is the sex ratio, which is defined as the number of females per 1000 males. Kerala State has the rare distinction (along with Orissa) of having more females than males among the different States in India. But when the district-wise distribution of population is considered, there are three Districts (Kottayam, Quilon and Ernakulam) having, more males than females contrary to the general trend of the population in the State. According to the 1961 census, the sex ratio for the District is only 963 against the corresponding figure of 1022 for the State. It may also be noted that the sex ratio for the District is the lowest among the different Districts in the State.

4.7 The variation in sex ratio since 1901 can be seen from the following table. The corresponding figures for Kerala and India are also given.

Table IV(c) Variation in sex ratio since 1901

		· ·	
	Sex ratio	(females per 10	000 males
Year	Kottayam	Kerala	India
1	2	3	4
1901 1911 1921 1931 1941 1951 1961	951 948 933 941 946 970 963	1004 1008 1011 1022 1027 1028 1022	972 964 955 950 945 946

The sex ratio during the period shows fluctuations. While there is an increasing trend in sex ratio for the State between 1901 to 1951 for the State, the figures for the District shows the same trend only for the period between 1931 to 1951. During 1901 to 1921 there is actually a decreasing trend. For India, a decreasing trend is noticed throughout the period

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except during the decade 1941 to 1951. Only the decade 1951 . 1961 has shown a decreasing trend in sex ratio for Kottayan District, Kerala State and Indian Union.

4.8 The taluk-wise sex ratio shows an increase during 1961 when compared to 1951 in all taluks except Kottayam and Vaikom, where the sex ratio was on the decrease during the period. The relevant figures are given below:

Table IV(d)	Taluk-wise	sex ratio	1951	and 1961
-------------	------------	-----------	------	----------

Taluk	Sex rati	o during	
Idiuk	1951	1961	
1	2	3	
Changanacherry Devicolam Kanjirappally Kottayam Meenachil Peermade Udumbanchola Vaikom	959 868 916 1016 988 692 803 1008	995 899 942 970 989 927 850 1007	
District - Total	970	963	

(Source: Census Reports)

It is interesting to note that in spite of the increase in the sex ratio in the six taluks the sex ratio of the District has been pulled down to a lower level, because of the decrease in the sex ratio of two Taluks.

IV(b) Religious composition

The important religions in this District, as in the case of the State, are Hinduism, Christianity and Islam in order. For the State, the proportion of Hindus is 60.81% of Christians is 21.23% and that of Muslims is 17.92%. The remaining 0.04% is accounted by other religions. But in Kottayam District, like Ernakulam and Malappuram, the proportion of Hindus is less than one half of the total population. Hindus form only 48.95%, Christians 47.20% and Muslims cover 3.83% of the total. The relevant figures for the District and the State are given below:

Table IV(e) Population according to Religion - 1961

No.	Percentage to total		ercentage
	THE RESERVE AND ADDRESS OF THE PARTY OF THE		
2	3	4	5
8,48,234 8,17,939 66,310 397	48・95 17・20 3・83 0・02	35,87\365 30,27,639	21,23
17,32,830	100,00	1,69,03,715	100.00
•	8,48,234 8,17,939 66,310 397	8,48,234 48.95 8,17,939 47.20 66,310 3,83 397 0.02	8,48,234

(Source: 1961 Census)

V. Literacy and Education

5.1 This District occupies the top most place in the case of female literacy and the second place in the case of general literacy among the Districts in Kerala. The percentage of literaces to the total population is 56.57% for the District against the corresponding figure of 46.85% for the State. The figures giving the literacy rates for 1951 and 1961 for each taluk in the District is given below.

Table V(a) Growth of literacy by sex - 1951-61

	P	ercentag	ge of lit	oracy .		
Taluk	M	ale	F	emale	Tot	al
Taran	1951	1961	1951	1951	1951	1961
1	2	3	4	5	6	7.
Changanacherry Devicolam Kanjirappally Kottayam Meenachil Peermade Udumbanchola Vaikom	62.44 30.46 54.02 67.57 64.05 39.52 31.96 63.42	68.55 43.07 63.92 68.92 64.57 50.91 54.10 64.50	53.08 11.46 44.09 53.22 53.61 18.58 9.75 43.83	60.46 20.72 54.47 59.37 55.84 30.70 38.69	21.63 49.23 60.34 50.36 29.65 22.07	64.52 32.49 59.34 64.17 60.23 41.31 55.57
District Total	59.32	62.41	45,97	50.51	52.77	JG 257

(Source: Census of India 1961)

Among the taluks in the District, Changanacherry stands first as regard to literacy rate (64.52%) followed by Kottayam (64.17%) while Devicolam taluk comes last (32.49%). The literacy rates given above are with respect to the total population which includes children under age five. A modified index known as "the effective rate of literacy" defined as the proportion of the total literates to the population excluding the 0 - 4 age group expressed as a percentage, is also used to measure the level of literacy. The effective literacy rate for the District works out to 66.64%, the sex distribution being 73.44% for males and 59.56% for females.

5.2 The District enjoys an enviable position in regard to educational facilities. The C.M.S. College, Kottayam, started in 1816 and the S.B.College, Changanacherry started in 1922 are among the oldest and famous institutions in the District. At present the District is having 17 Colleges (including Junior Colleges), 5 professional and training Colleges, 1 (one) Medical College, one Homeo Medical College, one Oriental title Institution and 183 High Schools.

VI. Occupational Structure

in the earlier censuses, the criterion for measuring the number of workers was income. However during the 1961 census, a slight modification was made so as to include as workers those who worked in family economic activities but did not actually earn an income. Thus in the last census, the population was divided mainly into workers and non-workers. The working population was further divided into nine imputial cotagories. The distribution of population, among the different categories, of the District and the State is given below:

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Table VI(a) Workers and non-workers (1951)

		Kout	ayam District	Ker	വിമ
	Category	No.	Forcentar, to total	e No.	Policen- tage to total
	1	2	3	<i>l</i> ₄	5
2.	Cultivators Agricultural Laboure	113397 rs 85170	6.54 4.91	117 8103 978395	6.97 5.79
3.	Mining, Quarrying, livestock, fishing, plantation etc.	142648	8,23	487359	2,88
	Household industry Manufacturing other	25907	1.50	488562	2.89
	than household industry	33945	1.96	529472	3.14
	Construction Trade and Commerce	8870 25735	0.51 1.66	70702 321933	0.42 1.90
	and communication Other services	11006 115387	0.64 6.66	152513 1423293	0.90 8.42
	Total workers	565115	32.61	5630333	33.31
10.	Non-workers	1167765		11273382	66,69
	Total population	1732880	100.00	16903715	100.00

(Source: Statistical Abstract of Kerala)

6.2 Workers constitute only 32.61% of the total population of the District as against the corresponding figure of 33.31% for the State. A noteable feature of the occupational distribution of the population is the comparatively large proportion of persons under category three, which includes plantation and other allied activities and the relatively small proportions under categories four and five (household industry and manufacturing) when compared with the corresponding figures for the State and other Districts. Considering the importance of plantation and allied activities in this District, the higher proportion under category three can be accounted for to a great extent. The lower proportion of population falling under household industry and manufacture reflects the absence of large, medium and small scale industrial establishments in this District.

VII. Feritility

7.1 In a population which is not affected by migration both internal and external, the changes in the population is governed mainly by the level of fertility and mortality, which for turn is, of course, controlled by so many other factors, social, economical and cultural. The simplest among the indices to measure the level of fertility of a population is the crude birth rate which is the number of births per thousand population in an year. The main source of getting reliable figures of birth rate is the registration data. Despite the fact that the registration system in the Travancore area to which the District belongs was organised so early as 1895, the birth and death rates obtained from the registration data are

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for from complete. Several fraction condusted by the Etche of Economics and Statistics have reverted that the extent of under registration of births in the State is of the order of 40 to 45 percent. As a result of the large extent of under registration in regard to births and deaths, the registered birth and death rates cannot be relied upon in studying the trend of fertility and mortality over time. However, the Government of India has launched a series of short term and long term schemes for improvement of Vital Statistics in the State.

7.2 The annual birth rates obtained from the registration data both for the District and the State since the formation of Kerala State are given below:

Table VII(a) Registered birth rates

					<u> </u>	
	Kerala State			Kot	tayam Dis	trict
Year	Rural	Urban	Total	Rural	Urban	Total
1957 1958 1959 1960 1961 1962 1963 1964 1965 1966	22.73 23.56 24.50 22.13 23.05 20.40 20.00 21.38 18.65 18.25 17.60	34.29 39.47 42.50 43.43 44.87 46.56 55.85 49.79	23.84 24.60 26.23 23.92 25.00 22.73 22.38 23.32 22.32 22.52 20.69	29.14 25.72 28.97 27.55 25.81 23.30 23.90 24.58 23.00 21.19 20.19	30.56 31.48 39.98 33.90 39.59 34.19 40.81 40.08 45.16 66.49 41.71	29.23 27.02 29.88 28.07 26.83 24.11 25.14 25.73 24.63 24.54 21.78

(Source: Vital Statistics Bullettins published by the Bureau of Economics and Statistics, Kerala.

- 7.3 The rate in urban areas is higher than that of the rural areas obviously because a considerable proportion of the events occuring in the hospitals in the urban areas will include events of the persons residing in the nearby rural areas. Further the rates for the District is always on the higher side than that of the State, possibly due to better registration and due to higher fertility performance of the women in this District. A decreasing trend in the birth rate is noticed both for the State and the District except during a few years where it was fluctuating. Assuming that the extent of under registration remains more or less constant overtime, there are reasons to believe that there is a decline in fertility at least since 1964, mainly due to the various efforts of the family planning activities launched by the Government.
- 7.4 The birth rate for the State, as obtained from the census data, during the period 1951-60 was 38.9 against the corresponding figure of 41.7 for India during the period. With a view to obtain reliable estimates of vital rates in the State, the Sample Registration scheme was started in 1965 in the rural areas of the State. The estimated birth rates based on the results of Sample Registration are as follows:

Period	Birth rate for Kerala
1965-66	37•9
1965 - 67 1967-68	37•3
1967-68	35•4

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The second secon

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marital status in or meach importance in status is as a condition of the population. According to the 1901 census, 37.6% of the females in this District is married, the corresponding of the females that being 36.5%. The distribution of females aged 15 years and over according to marital status is as follows:

Table VII(b) Percentage distribution of Females

15 - 44 and 15 and over according to
marital status

	% of fem 15 - 44	ales	es Percentage of female: and above		
Marital Status	Kottayam District	Kerala State	Kottayam District	Kerala State	
1	2	3	4	5	
Never married Married Widowed	24.7 69.8 2.9	22.0 68.7 4.7	18.7 65.6 12.3	16:4 62:2 17:2	
Divorced or Separ ted Un-specified	'a- 2.6	4.5	2.4	4.1	
Total	100.0	100.0	100.0	100.0	

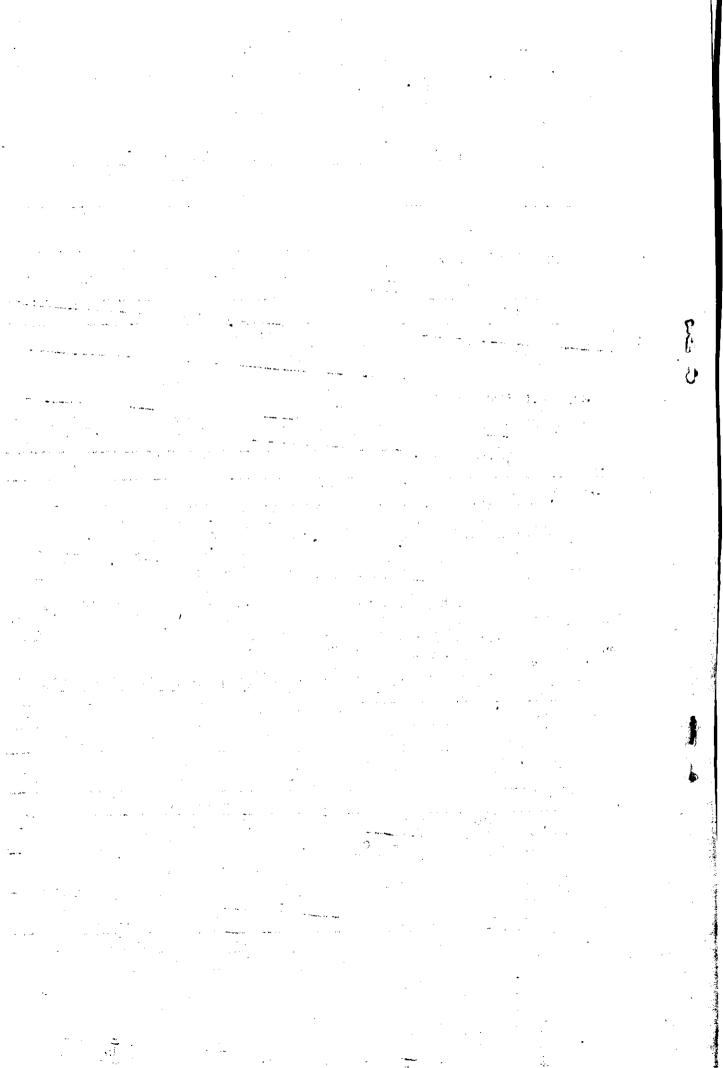
Though the higher percentage of married females and the lower percentages of widowed, divorced and separated females of the district of females 15 - 44 as well as 15 + are conducive to higher fertility, the higher percentage of never-married remales, is likely to have a lowering effect on fertility.

7.6 The proportion of married females in the reproductive age group is also indicative of a higher level of fertility for the District. The relevant figures are given in the following table.

Table VII(c) Proportion of married females (1961)

		Percentage of married females to the					
Age group —		Female	population	Total population			
		Kottayam District	. Kerala State	Kottayam District	Kerala State		
1		2	3	44	5		
25 -	19 24 29 34 39	19.5 73.2 87.6 88.7 87.2 82.6	28.5 72.2 84.1 84.1 81.4 73.5	9.9 36.9 43.9 42.4 40.8 38.1	14.8 38.0 44.8 43.2 40.5 36.4		

(Source: Computed from 1961 census data)



The proportion of married females to the total females in each ago group seems to to higher for the District them that of the Stave, in all age groups except 15 - 19, where the reverse situation occurs. Thus considering the age and marital status of women in the reproductive age-groups. It can be inferred that the fertility indices for the District can be on a higher level than those relating to the State. The lower proportion of married women in the age group 15 - 19 can be due to a higher age at marriage for girls in this District.

This conjucture appears to be reasonable, when we remember that the female literacy rate for the District is the highest among the Districts in the State and that nearly one-half of the population is accounted by the Christian Community where the age at marriage of girls is found to be slightly higher. The comparatively lesser variation in regard to the proportion of married females, to the total population in each age group for the District when compared to that of the State, is due to the lowest sex ratio prevailing in the District.

7.7 Though the Sample Registration scheme was started in 1965 in ten randomly selected samples in this District covering a population of nearly 1% of the total, no attempt has so for been made to estimate the vital rates at the District level. However based on the results of the half yearly surveys conducted so far it is roughly estimated that the crude birth rate for the District was near about 36 per 1000 during 1968 which has shown a reduction of 2 to 3 points during 1969 giving the crude birth rate for 1969 near about 34. Based on all these observations it can be inferred that the birth rate has started to have a declining trend.

VIII. Mortality

- 8.1 The demographic history of the country as a whole has shown that there was a rapid reduction of the level of mortality after the attainment of independence and especially during the second half of the present century. The simple measure to know the level of mortality is the crude death rate, while the infant death rate, maternal death rate etc. are indices to know the level of mortality occuring to a specific class or group of the population. As in the case of birth rates, the registration data do not provide reliable estimates of these indices.
- 8.2 The crude death rate for Kerala (No. of deaths per 1000 population in an year) as estimated by the Census Actualy during 1951-60 was 16.1 as against the all India figure of 22.8 for the same period.
- 8.3 The expectation of life at birth during the period was as follows.

 Expectation of life

	at birth	<u>(1951–1960)</u>
	Males	Females
Kerala India	46117 41190	50,00 40,60

It is estimated that the expectation of life in later was 56.2 years for wales and 60.0 years for Semalor during 1986-70, the corresponding Circums for India being 19.2 add 51.9 respectively. One normalis feature of the acceptable, of life computed so for, is that the feature of the acceptable line longer than the males willke the reverse obtained for industant other developing countries.

8.4 The following table gives the mortality indices for Kottayam District and Kerala State based on the regiouration data since 1957.

Table VIII(a) Mortality indices since 1957

	4.5		**:			 \(\(\alpha\)		
Year	ea Sburft fansb Sbor	Still birth rate	Descrictions. forta- lity rate		Grude donth rate			limbernel death robs
<u></u>	2		i.j.	5	6	7	Ë	ÿ
195789 19559 19661 19663 19663 19667	8.66 6.26 7.10 6.27 6.27 6.27 5.49 5.13 4.35	12.93 9.58 10.64 7.56 7.56 7.86 7.86 7.86 7.86 7.86	40.43 42.66 41.22 43.35	2.32 3.32 3.32 3.32 3.32 3.32 3.45 3.45 3.36 1.37 3.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	9776767655958		49.47 39.77 41.82 34.62 32.02 26.36 27.28 26.01	2.06 2.74 2.46 2.38 1.78 1.42 1.21 1.31 0.84

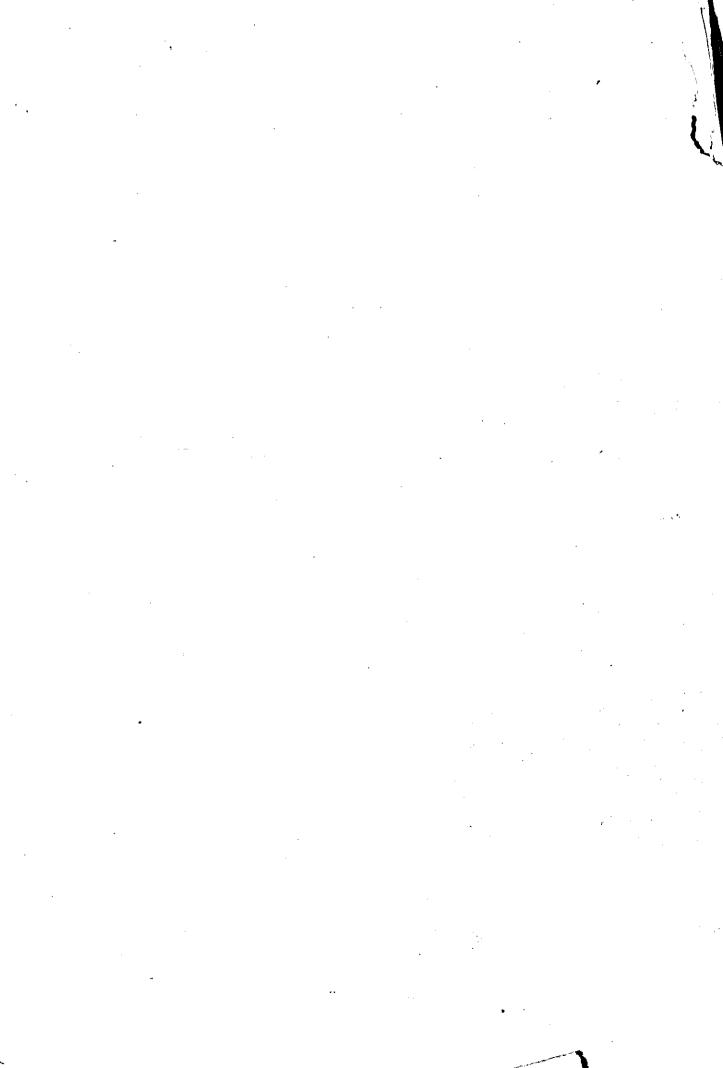
(Source: Vital Statistics bulletings of the Bureau of Feenemics & Statistics, Kerala.

Since the extent of under registration is of the order of 40 to 50 percept as in the case of births, the possible conclusions that could be made from the above table are (i) that the death rate is constantly on a lower side for the District when compared to that of the State and (ii) that he death rate in the District is showing a declining trend or thus.

g.5 Estimates from the sample registration data give a death rate of round about 10 per 1000 during the years 19-5-66, 1966-67 and 1967-66. All the available data and evidences relating to morbility used reveals that the death rate for the District during the past two at three years was more or less constant giving a signre of 10 to 11 per 1000 population.

IX. Progress of femily planning

9.1 Family planning as a national movement is nearly two decades old, though some of the non-appliance methods of birth control were known and practised since the beginning of the history of mankind. In Kerala a modest beginning of the Programma was made in 1955. The programme attained momentum since 1964, when the State and District family planning by respective were established in the Health Services Department.



10.2 The present growth rate implies that the population of the District will be doubted before 1991 unless one around reduction in birth rate takes place immediately. Historical birth and death rates from the Sample aggistration Scheme, reveals that more than 77,000 children are born and court 23,000 persons die every year. Thus a little were than 1991 Jokhs of persons are added to the population of the listrict in an year.

10.3 The problem which faces the District at present is, therefore, not only to provide educational, medical, housing and employment facilities to the existing population accordance to share the additional burden of the population accordance every year. It is clear that the progress achieved by the various efforts and programmes for economic development will be retarded by the unprecedented increase in the population. The main reason for controlling births and hence the growth rate is, therefore, not the task of the Government clone, but of the people also. In fact Government can do little in controlling the birth rate, unlike the death rate. People should realise the gravity of the situation and should be ready to plan their families for their own welfare and for the welfare of the State as a whole.