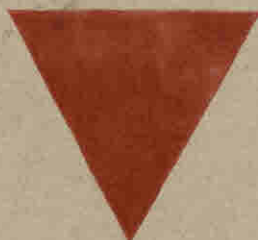


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KERALA

FACT BOOK

ON

POPULATION AND FAMILY  
PLANNING



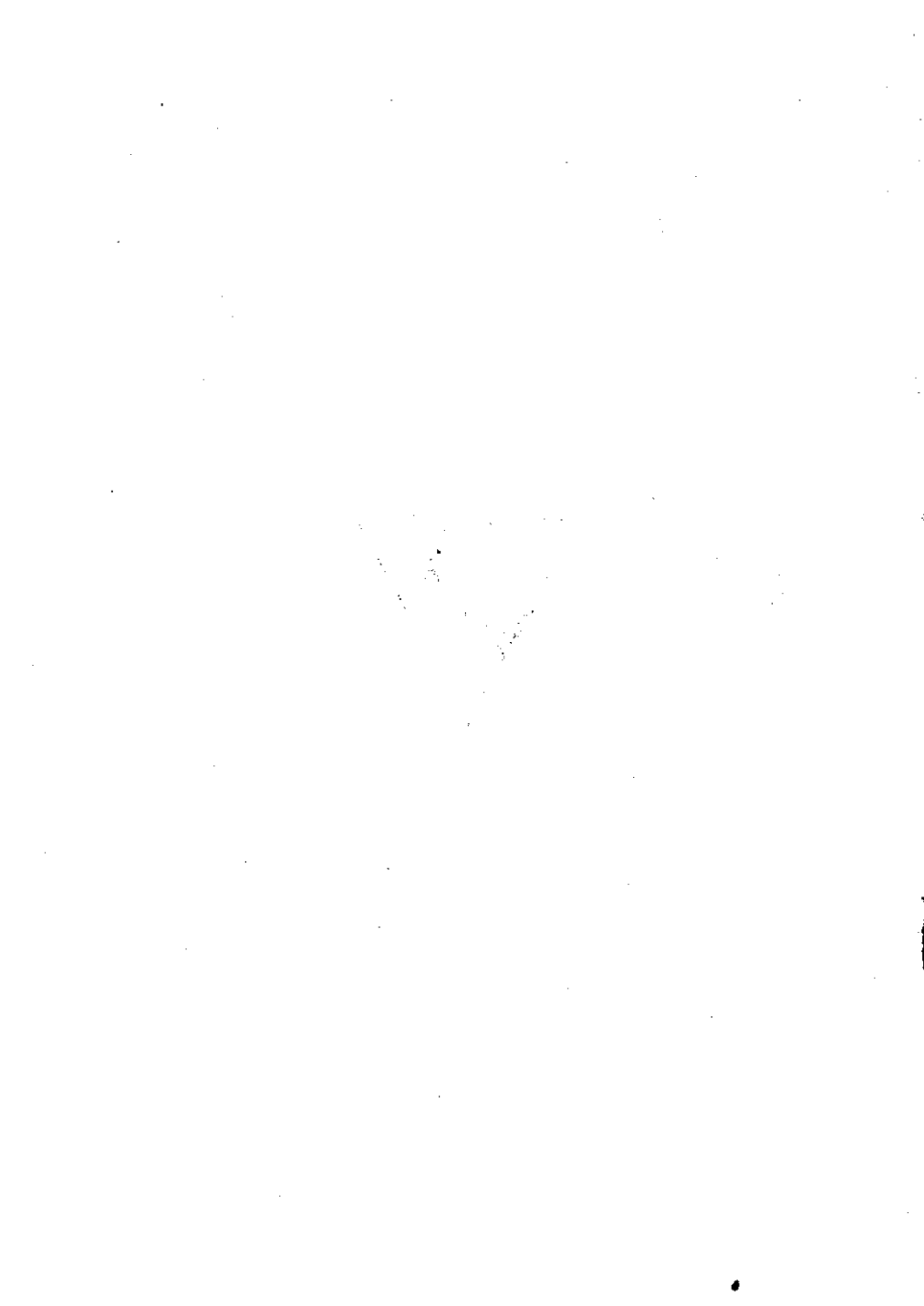
DEMOGRAPHIC RESEARCH CENTRE  
BUREAU OF ECONOMICS AND STATISTICS  
TRIVANDRUM

JUNE 1969



GOVERNMENT OF KERALA  
1969

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# FACT BOOK ON POPULATION

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## INTRODUCTION

With the expansion of the Family Planning Programme over the years, the need for more and more reliable information on population, is keenly felt in several quarters. Also the impact of programme of Family Planning has to be assessed statistically. This small booklet is designed to meet these needs.

It is hoped that those who work in the fields of population and family planning and others who are interested in these matters will find this a useful publication. Comments for improvement are welcome.

Dr. R. S. KURUP,  
*Deputy Director,*

P. S. G. NAIR,  
*Assistant Director,*

and

N. V. GEORGE,  
*Research Officer.*

(Editors)

MEMORANDUM

TO : [Illegible]

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## KERALA—HER UNIQUE DEMOGRAPHIC FEATURES

Kerala — Her density of population is the highest.

Her literacy rate is the highest.

Along with Orissa, she has the distinction of having more females than males.

Here females live longer than males.

Here, the available per capita land is very low.

The per capita income too is very low.

Unemployment is acute, particularly the incidence of educated unemployment is very high.

A large base population and high growth rate has doubled the State's population much earlier than that of India.

### SIZE AND ADMINISTRATIVE UNITS

Kerala — Area: 38855 Sq. K. M. (15002 Sq. Miles).

No. of Districts:	10
No. of taluks:	56
No. of revenue Villages:	1635
No. of census Villages:	5887
Municipal Corporations:	3
Municipalities (including one township):	26
N. E. S. Blocks:	144
No. of Primary Health Centres	163

### KERALA—POPULATION TODAY

Population as on 1st March 1969	20673600
Males	10354500
Females	10319100

# GAP BETWEEN BIRTH AND DEATH RATES

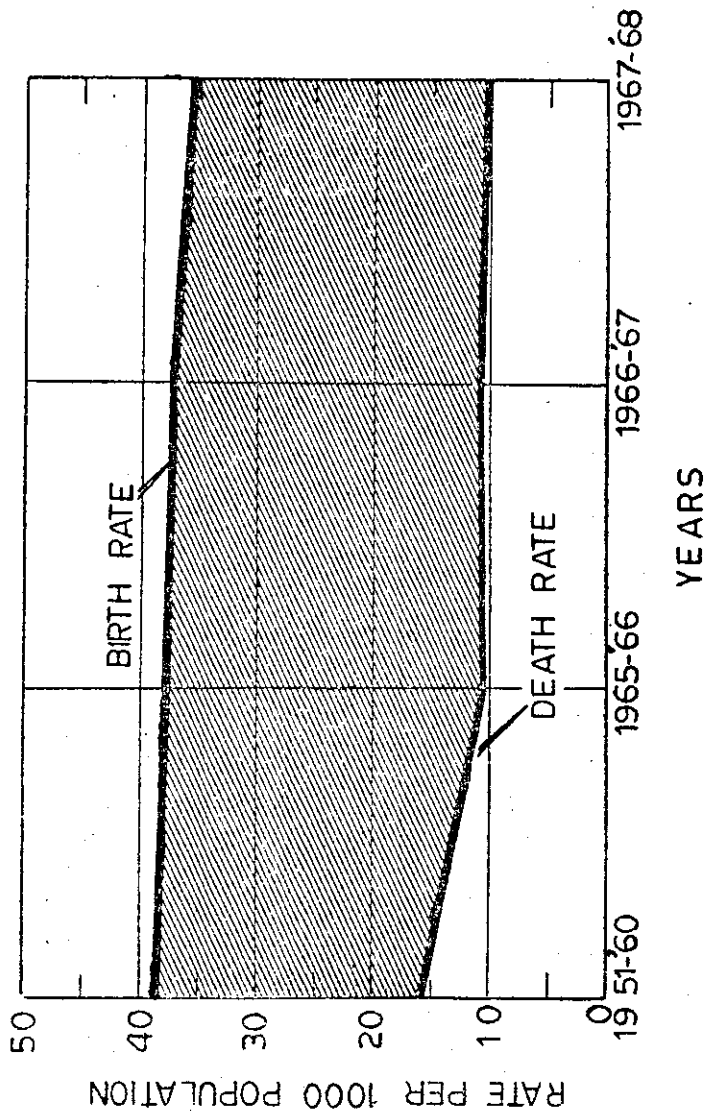




TABLE 2

**Population & Density of Kerala by Districts—1961**

	<i>Population</i> 1961 ( <i>lakhs</i> )	<i>Density</i> <i>per sq. K. M.</i>	<i>Density</i> <i>per sq. K. M.</i>
Cannanore	17.80	812	314
Kozhikode	26.17	1018	393
Palghat	17.77	897	347
Trichur	16.40	1442	557
Ernakulam	18.60	1442	557
Kottayam	17.33	706	272
Alleppey	18.11	2558	988
Quilon	19.41	1062	410
Trivandrum	17.45	2067	798
	169.04	1127	435

TABLE 3

**Population by Religion (1961 Census)**

Hindus	10282568
Christians	3587365
Muslims	3027639
Others	6143
Total	16903715

TABLE 4

**Population—Rural—Urban (1961 Census)**

Rural	14349574
Urban	2554141
Total	16903715

TABLE 5  
Population by Age Groups

<i>Age group</i>	<i>No. in lakhs (1961)</i>	<i>Percentage</i>
0—4	26.7	15.8
5—9	22.7	13.4
10—14	19.9	11.8
15—24	32.5	19.2
25—34	24.2	14.3
35—44	17.5	10.4
45—54	12.1	7.2
55—64	7.9	4.6
Above 64	5.5	3.3
<b>TOTAL</b>	<b>169.0</b>	<b>100.0</b>

TABLE 6 A  
Population by Sex and Age (1961 Census)

<i>Age group</i>	<i>Males (No. in lakhs)</i>	<i>Percentage</i>	<i>Female (No. in lakhs)</i>	<i>Percentage</i>
0—4	13.6	16.2	13.1	15.4
5—9	11.4	13.7	11.3	13.2
10—14	9.8	11.7	10.1	11.8
15—24	15.7	18.8	16.8	19.6
25—34	11.7	14.0	12.5	14.6
35—44	8.8	10.5	8.7	10.2
45—54	6.1	7.3	6.0	7.1
55—64	3.9	4.6	4.0	4.7
Above 64	2.6	3.2	2.9	3.4
<b>TOTAL</b>	<b>83.6</b>	<b>100.0</b>	<b>85.4</b>	<b>100.0</b>

TABLE 6 B  
Population by Age and Sex—1969\*

Age Group	Number in '00s		Total
	Males	Females	
0—4	16718	15681	32399
5—9	14335	13556	27891
10—14	12211	11805	24016
15—19	10534	10493	21027
20—24	8997	9337	18334
25—29	7715	8195	15910
30—34	6639	7057	13696
35—39	5703	5990	11693
40—44	4915	5024	9939
45—49	4170	4127	8297
50—54	3416	3345	6761
55—59	2727	2713	5440
60—64	2093	2152	4245
65—69	1509	1606	3115
70 & above	1863	2110	3973
All ages	103545	103191	206736

\* Projection by Expert Committee on population—Planning Commission (The predominance of males in numbers does not seem to be a real phenomenon but is a creation of the model adopted for projection Ed.).

TABLE 7  
Percentage Married—1961 Census

Age group	Percentage of married		No. of married females per 1000 population
	Males	Females	
15—19	1.2	28.5	148
20—24	20.9	72.2	380
25—29	61.0	84.1	448
30—34	84.4	84.1	432
35—39	91.9	81.4	405
40—44	93.3	73.5	364
45—49	92.8	67.4	333
50 and above	85.1	37.4	192
TOTAL	35.2	36.5	184

TABLE 8 A  
 Percentage unmarried—1961 Census

<i>Age group</i>	<i>Males</i>	<i>Females</i>
15—19	98.7	69.6
20—24	78.3	22.7
25—29	36.9	8.0
30—34	13.2	4.5
35—39	5.5	3.2
40—44	3.4	2.9
45—49	2.7	2.2
50 and above	1.8	1.3
TOTAL	62.4	51.1

TABLE 8 B  
 Percentage of widowed, divorced or separated

<i>Age-group</i>	<i>Widowed</i>		<i>Divorced or separated</i>	
	<i>Males</i>	<i>Females</i>	<i>Males</i>	<i>Females</i>
10—14	..	..	..	0.1
15—19	..	0.2	0.1	1.7
20—24	0.1	0.9	0.7	4.1
25—29	0.4	2.5	1.6	5.4
30—34	0.7	5.4	1.7	6.0
35—39	1.1	9.6	1.4	5.8
40—44	1.9	17.9	1.4	5.6
45—49	3.0	25.7	1.4	4.7
50+	1.3	6.9	0.2	0.3
All ages	1.7	10.0	0.7	2.4

TABLE 9  
Sex Ratio (Female per 1000 males)

<i>Year</i>	<i>Kerala</i>	<i>India</i>
1901	1004	972 ***
1911	1008	964 *
1921	1011	955 *
1931	1022	950 **
1941	1027	945 **
1951	1028	946 *
1961	1022	941

\* Excludes NEFA.

\*\* Excludes NEFA and Pondicherry.

\*\*\* Excludes Jammu and Kashmir NEFA and Pondicherry.

TABLE 10  
Sex Ratio of other States

<i>State</i>	1901	1911	1921	1931	1941	1951	1961
Andhra Pradesh	985	992	993	987	980	986	981
Assam	933	927	908	886	886	877	876
Bihar	1054	1044	1016	994	996	990	994
Gujarat	954	946	944	945	941	952	940
Jammu & Kashmir	N.A.	876	870	865	869	873	878
Madhya Pradesh	990	986	974	973	970	967	953
Madras	1044	1042	1029	1027	1012	1007	992
Maharashtra	978	966	950	947	949	941	936
Mysore	983	981	969	965	960	966	959
Orissa	1037	1056	1086	1067	1053	1022	1001
Punjab	848	807	821	830	850	858	864
Rajasthan	905	908	896	907	906	921	908
Uttar Pradesh	937	915	909	904	907	910	909
West Bengal	945	925	905	890	852	865	878

TABLE 11  
Fertility indices—Kerala

Birth rate	1951-60	38.9	
	1965-66	37.9	
	1966-67	37.2	
	1967-68	35.4	
General fertility rate	(1961 census)	182.1	158.8 (1965-67)*
Nuptial fertility rate	do.	264.9	
Gross reproduction rate	do.	2.49	2.3* do.
Child Woman ratio (1961)		700	691.1 do.
Completed fertility (1961)	Rural	6.0	
	Urban	5.7	

\* Sample Registration.

TABLE 12

## India

Birth rate 1951-60	41.7
General fertility rate (1951-60)	195
Child woman ratio (1961)	719

TABLE 13

## Age Specific Fertility Rate 1965-67 \*

<i>Age Group</i>	<i>Fertility Rate</i>
15—19	67.2
20—24	226.2
25—29	240.0
30—34	199.1
35—39	151.4
40—44	57.4
45—49	10.6
50—54	0.5

\* From Sample Registration.

TABLE 14  
Fertility Indices of other States 1961

<i>State</i>	<i>Birth rate</i>	<i>General fertility rate</i>	<i>Nuptial fertility rate</i>	<i>Gross reproduction rate</i>
Andhra Pradesh	39.7	182.7	213.3	2.55
Madras	34.9	153.3	195.8	2.23
Uttar Pradesh	41.5	203.8	221.6	2.69
Assam	49.3	253.8	317.0	3.31
Bihar	43.4	204.5	228.5	2.84
Madhya Pradesh	43.2	203.1	224.0	2.82
Orissa	40.4	183.4	215.0	2.61
Gujarat	45.7	220.0	258.7	3.01
Rajasthan	42.7	208.7	228.7	2.78
Maharashtra	41.2	194.9	227.1	2.67
Mysore	41.6	201.3	241.9	2.70
Punjab	44.7	234.6	278.4	2.94
West Bengal	42.9	215.0	257.7	2.80

TABLE 15

## Age at marriage in Kerala, other States and other Countries

Decade	Mean age at marriage of	
	Males	Females
1901—10	23.33	17.13
1911—20	23.87	17.35
1921—30	23.31	17.80
1931—40	25.63	19.66
1941—50	25.69	19.35
1951—60	26.33	19.85
<i>Other countries:</i>		
Ireland	31.4	26.5
Japan	25.8	23.1
Singapore	25.8	21.1
Israel	26.4	21.1
Philippines	24.1	21.0
Thailand	23.7	20.0
Ceylon	26.1	20.1
Turkey	23.3	19.5
U. A. R.	25.2	19.4
Malaysia	23.9	18.2
India	20.0	14.5

## Age at marriage of females in other States in India (1941-51)

Assam	16.5	Madras	16.8
Bengal	14.3	Mysore	16.0
Bihar & Orissa	14.1	Punjab	16.1
Bombay	15.2	Rajasthan	14.0
Hyderabad	11.8	Uttar Pradesh	13.5
Madhya Pradesh	14.1		



TABLE 16

**Mortality Indices—Kerala and India**

Death rate	1951-60	16.1	
	1965-66	10.1*	*Estimates from Sample Registration.
	1966-67	10.4*	
	1967-68	10.1*	

## Expectation of life at birth.

<i>Year</i>	<i>Males</i>	<i>Females</i>
1911—20	25.49	27.41
1921—30	29.54	32.70
1931—40	33.19	35.00
1941—50	39.89	42.34
1951—60	46.17	50.00
1966—70	56.2	60.00

**India**

Death rate 1951-60 22.8

## Expectation of life at birth.

<i>Year</i>	<i>Males</i>	<i>Females</i>
1911—20	19.42	20.91
1921—30	26.91	26.56
1931—40	32.09	31.37
1941—50	32.45	31.66
1951—60	41.9	40.6
1966—70	53.2	51.9

TABLE 17  
Population Projections \*

Year	Estimated population (in lakhs)	
	Kerala	India
1966	191.37	4947.81
1971	217.01	5596.81
1976	244.22	6302.02
1981	268.29	6948.96

\* Projections by Expert Committee on Population.

TABLE 18  
Economic Characteristics

Percentage of working population as per 1961 census			
	Rural	Urban	State
Male	47.4	46.0	47.2
Female	20.9	13.0	19.7
Total	34.0	29.6	33.3

Per capita Income of State—1965-66  
(at 1960-61 prices) Rs. 288.95.

Persons unemployed (in lakhs)	Percentage to	
	labour force	total population
Males	3.0	17.1
Females	2.5	13.9
Total	5.5	9.1

## SECTION II—FAMILY PLANNING

### **Development of the Programme:**

A modest beginning was made in 1955 with 11 Family Planning Clinics. In 1958 the State and District Boards were set up.

But significant development began from 1964, with the reorganisation of the Department and the establishment of State and District Family Planning Bureau. At present there are 160 Rural Family Planning Centres and 22 urban Family Planning Centres. Besides, one mobile sterilisation and I. U. C. D. units are attached to each of the District Family Planning Bureau.

**TRAINING AND RESEARCH FACILITIES**

There are two family planning training centres in the State.

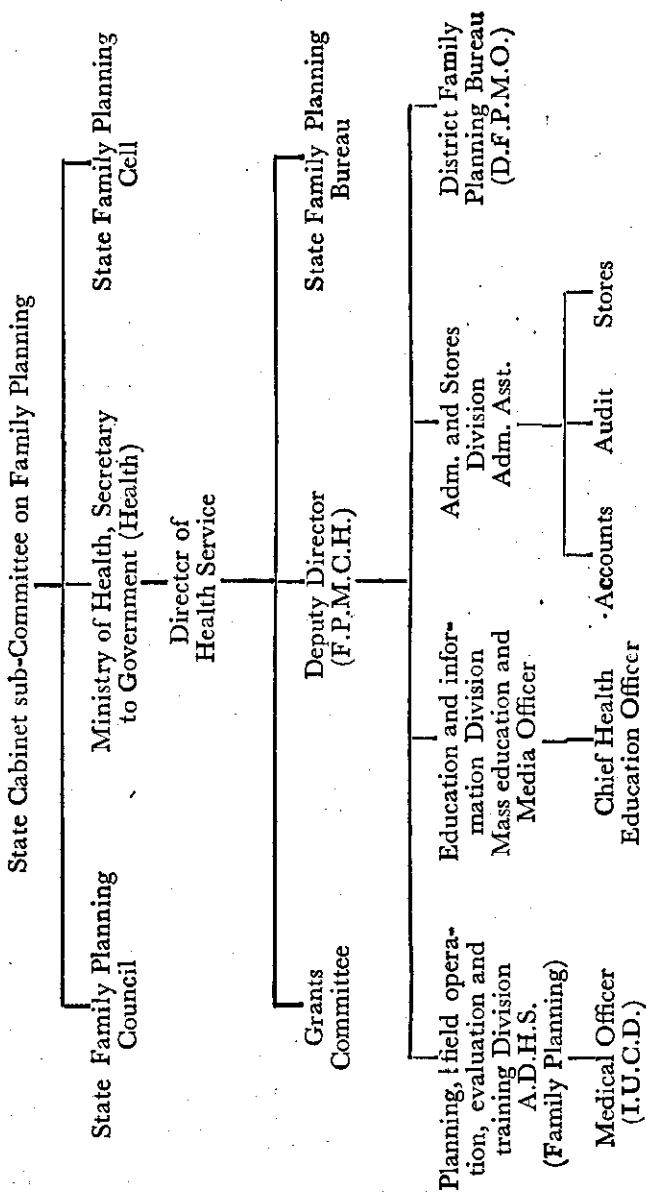
1. Regional Family Planning Training Centre, Trivandrum.
2. Regional Family Planning Training Centre, Calicut.

The centres attending to Communication Action Research and Demographic Research, are—

1. University of Kerala, Department of Statistics, Trivandrum.
2. Demographic Research Centre, Bureau of Economics and Statistics, Trivandrum.

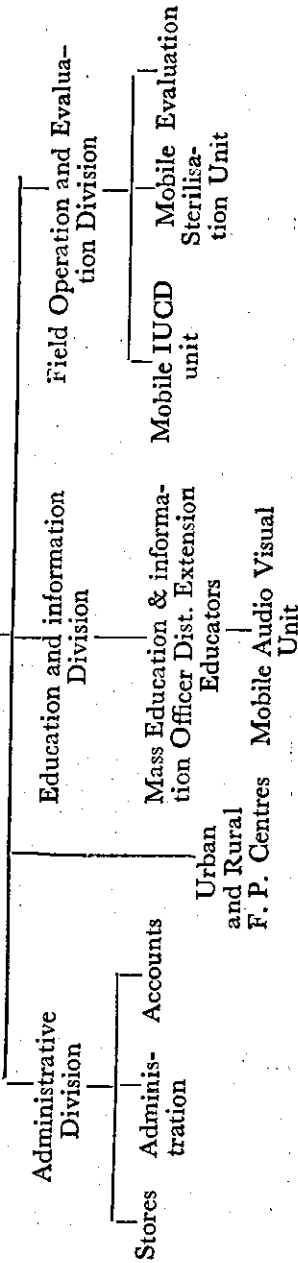
ORGANISATION OF PROGRAMME

(a) STATES LEVEL:



**(b) District Level:**

District Family Planning Bureau  
(D. F. P. M. O.)

**(c) Block Level:**

Primary Health Centre M. O. (Male)  
M. O. (Lady)

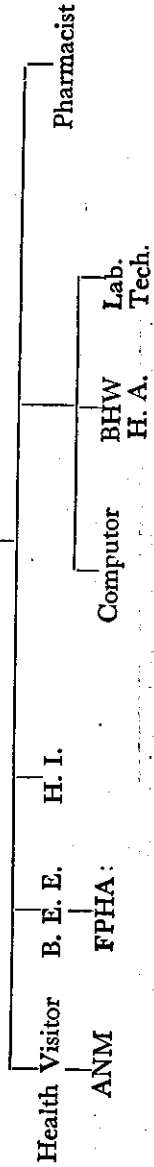


TABLE 1  
Expenditure on Family Planning over the years

<i>Year</i>	<i>Total expenditure</i>
1958-59	193797
1959-60	286054
1960-61	317866
1961-62	260708
1962-63	461561
1963-64	1349474
1964-65	3656846
1965-66	6128684
1966-67	8658439
1967-68	13183850

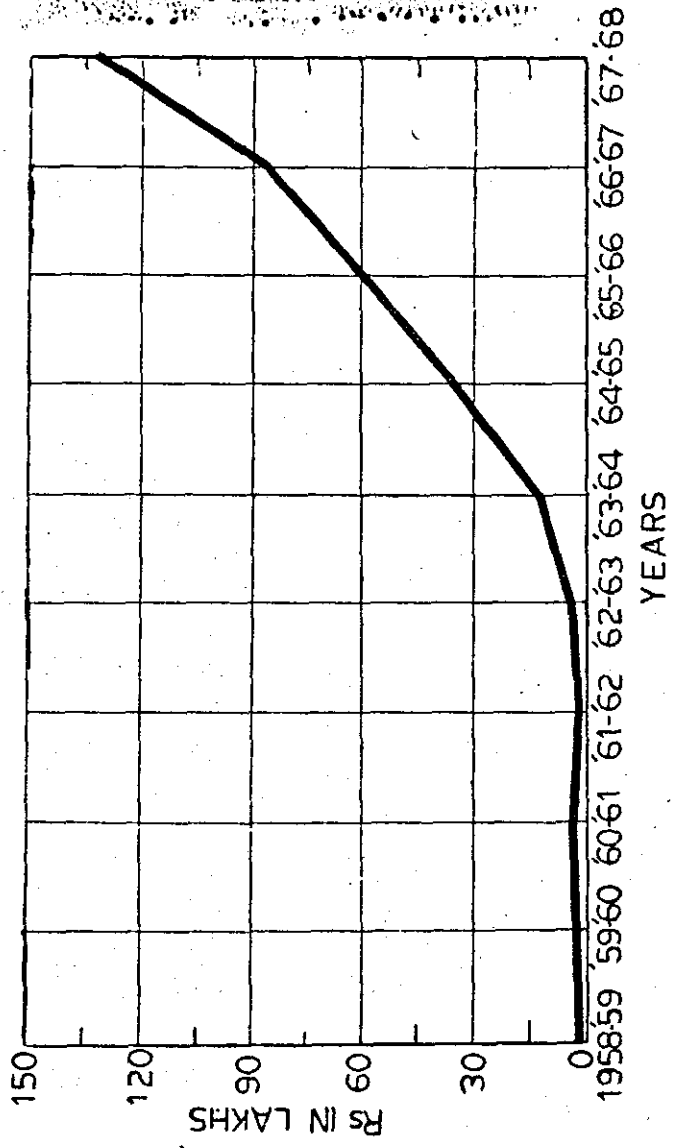
TABLE 2  
Achievements in Family Planning

<i>Year</i>	<i>Number of</i>			
	<i>Vasectomies</i>	<i>P. P. S.</i>	<i>Total sterilisation</i>	<i>I. U. C. D.</i>
1957	521	158	679	..
1958	1633	1507	3140	..
1959	4132	2236	6368	..
1960	3079	1953	5032	..
1961	3578	2939	6517	..
1962	4182	2916	7098	..
1963	10395	2830	13225	..
1964	17938	3966	21904	..
1965	36102	6532	42634	23062
1966	33251	6147	39398	43517
1967	49489	10504	59993	36887
1968	64081	14066	78147	39742
Total	228381	55754	284135	143208

**Contraceptives issued**

	1966-67	1967-68	1968-69
Nirodh (in gross)	1540	8959	8263
Jelly (tubes)	14506	12242	5196
Foam tablets (tubes of 10 tablets)	8929	16400	8550

# EXPENDITURE ON FAMILY PLANNING OVER THE YEARS





# STERILISATIONS & IUC D. INSERTIONS IN KERALA

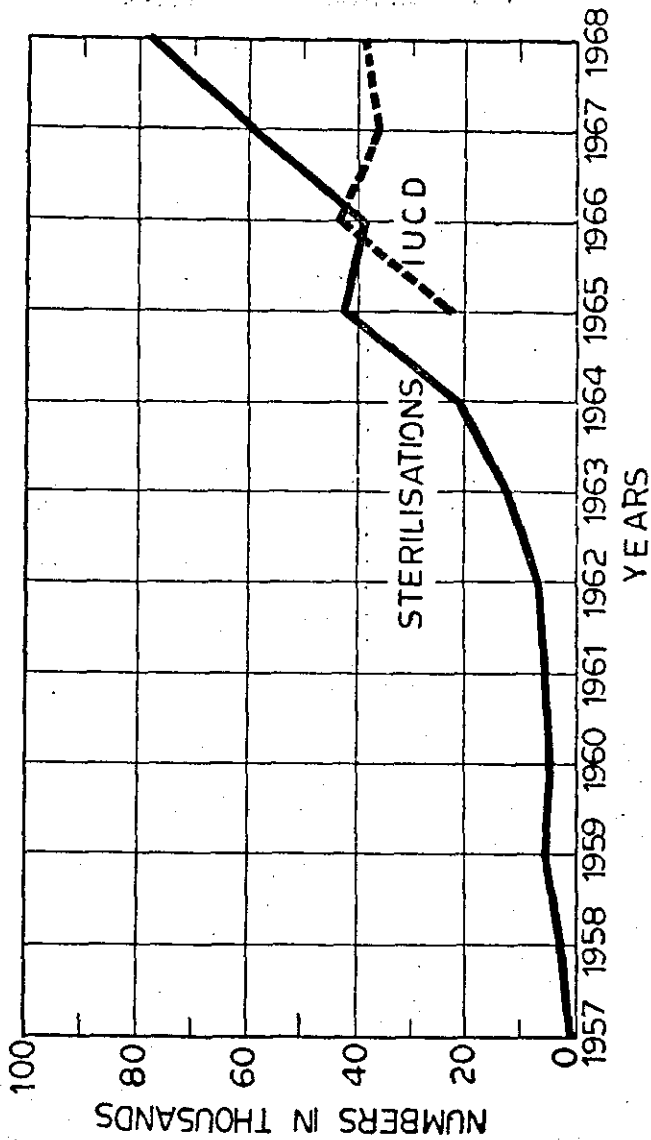


TABLE 3

**Expenditure on Family Planning programme in States  
during 1955-56 to 1967-68**

<i>State</i>	<i>Per capita expenditure (1961 population) 2nd plan</i>	<i>Per capita expenditure (1961 population) 3rd plan</i>	<i>Per capita expenditure (1967-68 population) during 1966-67</i>	<i>Per capita expenditure (1967-68 population) during 1967-68</i>
	Rs.	Rs.	Rs.	Rs.
Andhra Pradesh	0.04	0.23	0.26	0.49
Assam	0.06	0.49	0.11	0.16
Bihar	0.04	0.05	0.09	0.23
Gujarat	0.05	0.72	0.35	0.70
Haryana	..	..	0.14	0.48
Jammu & Kashmir	..	0.25	0.12	0.65
Kerala	0.03	0.80	0.51	0.61
Madhya Pradesh	0.02	0.31	0.18	0.48
Madras	0.05	0.47	0.43	0.51
Maharashtra	0.05	0.47	0.31	0.64
Mysore	0.03	0.28	0.35	0.47
Orissa	0.05	0.51	0.36	0.67
Punjab	..	0.33	0.36	0.54
Rajasthan	..	0.34	0.20	0.52
Uttar Pradesh	0.02	0.27	0.17	0.34
West Bengal	0.06	0.25	0.18	0.37
ALL INDIA	0.03	0.34	0.25	0.46

**TABLE 4**  
**Total coverage by Sterilisation and IUCD since inception upto**  
**1967-68**

<i>State</i>	<i>Coverage by sterilisation per 1000, 1967-68 population</i>	<i>Coverage by I.U.C.D. per 1000, 1967-68 population</i>	<i>Total coverage by sterilisation and I.U.C.D. per 1000, 1967-68 population</i>
Andhra Pradesh	6.66	2.79	9.45
Assam	2.06	6.28	8.34
Bihar	4.04	1.46	5.50
Gujarat	9.40	5.83	15.23
Haryana	3.26	12.23	15.49
Jammu & Kashmir	5.22	6.54	11.76
Kerala	11.08	5.73	16.81
Madhya Pradesh	9.23	2.38	11.61
Maharashtra	14.31	6.46	20.77
Mysore	8.41	7.46	15.87
Madras	17.33	0.57	17.90
Orissa	11.63	2.84	14.47
Punjab	10.12	26.12	36.24
Rajasthan	3.65	2.15	5.80
Uttar Pradesh	4.61	2.98	7.59
West Bengal	7.15	6.24	13.39
ALL INDIA	8.20	4.65	12.85

TABLE 5

## Statement of monthly achievements—Kerala

Month	1966		1967		1968	
	<i>Sterilisation</i>	<i>IUCD</i>	<i>Sterilisation</i>	<i>IUCD</i>	<i>Sterilisation</i>	<i>IUCD</i>
January	2865	3630	2810	2587	3499	2199
February	2889	4463	3103	3285	7344	5522
March	2790	3657	3497	3121	3729	1938
April	1655	1866	2752	2676	3311	2131
May	2074	2396	3702	3298	4971	2747
June	2584	2807	4567	2601	5412	2308
July	3271	3459	6105	3033	17283	6594
August	2864	2698	5963	2684	7663	2825
September	2631	2970	9880	5236	5465	1495
October	3185	3383	6136	2818	8270	4567
November	3498	3042	5524	2839	4584	2318
December	9132	9146	5954	2709	6166	5098

TABLE 6

## State's Performance in comparison with All India Performance

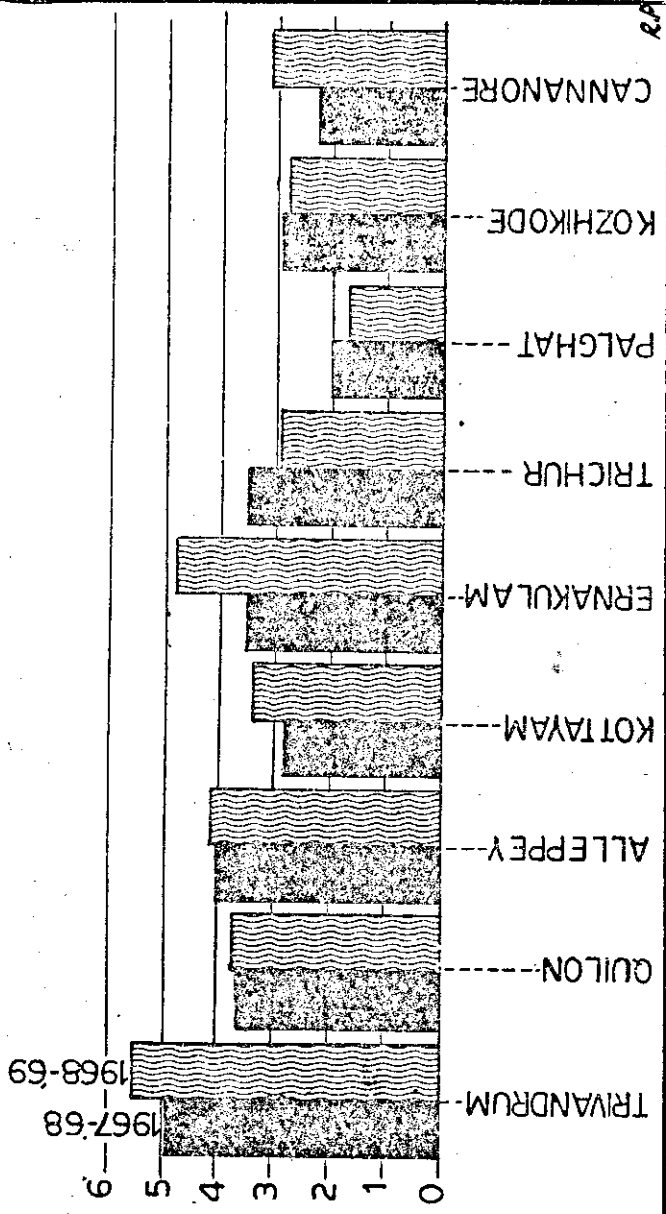
	<i>Sterilisations since 1956</i>	<i>Sterilisations per 1000 pop. (1968)</i>	<i>IUCD insertion since 1965</i>	<i>IUCD insertion per 1000 pop.</i>
Kerala (upto March 1969)	294435	14.60	149190	7.40
India (upto 10-1-69)	5317987	10.24	2690123	5.18

TABLE 7

**District wise Achievements**

<i>District</i>	<i>Year</i>	<i>Vasectomy</i>	<i>P.P.S.</i>	<i>IUCD</i>
Trivandrum	1967-68	7552	2899	6963
	1968-69	8168	3987	9765
Quilon	1967-68	6748	1730	5554
	1968-69	7186	1910	4931
Alleppey	1967-68	7214	966	6109
	1968-69	7436	1204	4400
Kottayam	1967-68	4753	1075	3872
	1968-69	5994	1456	3214
Ernakulam	1967-68	6097	1536	3998
	1968-69	8531	2121	3837
Trichur	1967-68	5670	1001	3220
	1968-69	4379	1137	2434
Palghat	1967-68	3667	327	4239
	1968-96	2964	458	4556
Kozhikode	1967-68	8311	779	2336
	1968-69	7356	1655	1620
Cannanore	1967-68	3744	1086	1362
	1968-69	5696	1137	1308

# STERILISATION PER 1000 POPULATION 1967-68 & 1968-69



# IUCD INSERTION PER 1000 POPULATION 1967-'68 & 1968-'69

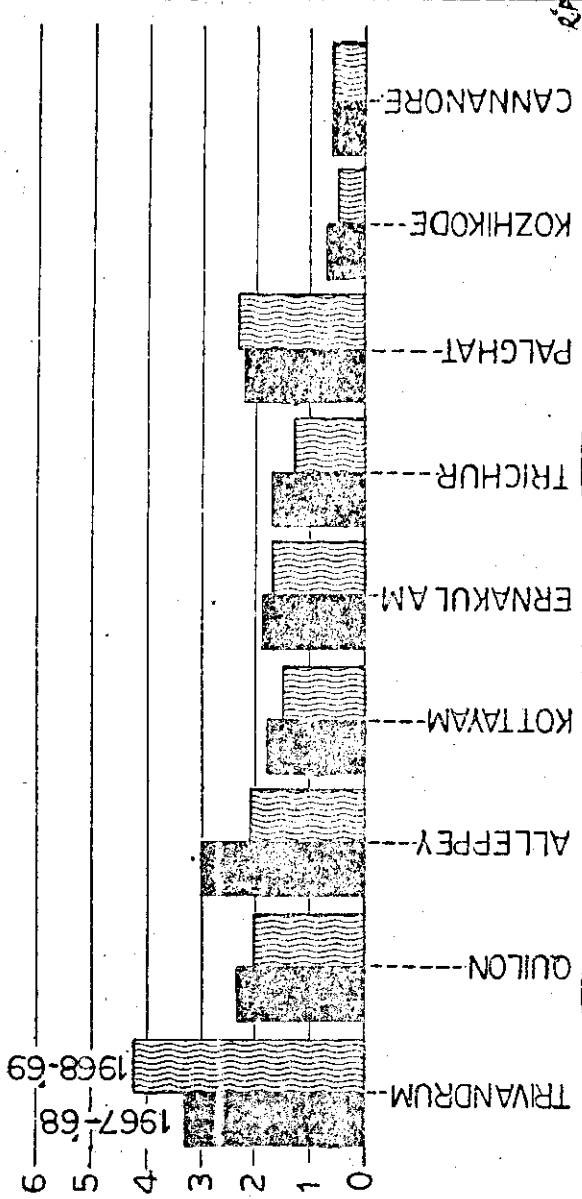


TABLE 8

**Characteristics of Sterilised Persons**

Percentate according to religion

<i>Year</i>	<i>Hindus</i>	<i>Christians</i>	<i>Muslims</i>	<i>Others</i>
1956-61	74.4	20.2	5.0	0.4
1961-62	74.6	20.2	5.2	..
1962-63	74.6	19.4	5.8	0.2
1963-64	72.1	22.3	5.4	0.2
1964-65	73.0 72.9	19.15	7.5	0.0
1965-66	74.7	17.6	7.7	..
1966-67	74.9	17.4	7.7	..

Percentage of literates among sterilised persons

<i>Year</i>	<i>Males</i>	<i>Females</i>
1956-61	86.7	64.5
1961-62	93.0	72.2
1962-63	91.6	78.1
1963-64	73.9	74.6
1964-65	74.6	78.6
1965-66	81.1	77.3
1966-67	81.3	80.7





**Percentage distribution of sterilised persons according to  
number of children living**

<i>No. of Children living</i>	1956-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
0	0.0	..	..	..	..	..	0.0
1	0.8	0.9	0.5	0.4	0.5	0.7	0.9
2	4.7	5.3	6.9	6.6	6.3	8.7	12.1
3	19.9	20.6	23.1	25.4	28.0	27.4	26.1
4	26.4	24.5	26.0	25.8	25.5	24.9	23.5
5	21.8	22.1	19.7	19.9	18.8	18.3	17.5
6	13.7	14.8	12.4	11.8	11.5	11.2	10.8
7	7.4	6.9	6.7	6.2	5.7	5.0	5.4
8	3.2	3.2	3.1	2.6	2.3	2.6	2.5
9	1.3	1.1	1.1	0.9	0.9	0.9	0.8
10 & above	0.8	0.6	0.6	0.4	0.5	0.3	0.4
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 9

**Characteristics of Contraceptive Acceptors**

<i>Religion</i>	<i>Percentage</i>	
	<i>I Study</i>	<i>II Study</i>
Hindu	71.8	62.9
Christian	17.6	25.4
Muslim	10.5	11.7

37.0% couples according to the first study and 48.3% couples according to the second study have 3 or less children living when they visited the clinic.

**Pregnancy rates (Number of accidental pregnancies for 100 years of use)**

<i>Contraceptive</i>	<i>1st study</i>	<i>2nd study</i>
Sheath	10	24
Diaphragm	8	7
Jelly	11	27
Foam tablets	15	25
Sheath and Jelly	10	25
Diaphragm and Jelly	24	19
Sheath and foam tablets	9	18

TABLE 10

**Study of Women who have adopted I.U.C.D.**

*Rate for one year of use:*

Expulsion rate	10.58
Removal rate	6.81
Re-insertion rate	8.44

*91% are active after one year:*

<i>Age-group</i>	<i>Percentage of Women</i>
15—19	3.58
20—24	22.73
25—29	34.42
30—34	22.89
35—39	11.77
40—44	2.86
45 and above	0.24
Not recorded	1.51
<b>Total</b>	<b>100.00</b>

<i>Religion</i>	<i>Percentage of women</i>
Hindus	85.53
Christians	9.78
Muslims	4.13
Not recorded	0.56
Total	100.00

<i>No. of Children living</i>	<i>Percentage of women</i>
0	0.48
1	11.84
2	21.30
3	24.09
4	15.82
5	11.29
6	7.32
7	3.18
8	1.99
9	1.19
10	0.16
Above 10	0.40
Not recorded	0.95

<i>Interval between I.U.C.D. insertion and last delivery</i>	<i>Percentage</i>
Below 6 months	36.17
6—11 months	21.54
12—23 "	23.21
24—35 "	8.43
36 months and above	8.66
Not recorded	1.99
Total	100.00

<i>Interval between I.U.C.D. insertion and last Menstrual period (L.M.P.)</i>	<i>Percentage</i>
0—6 days	12.24
7—13 "	35.21
14—20 "	6.60
21—27 "	2.54
28—34 "	0.56
35—41 "	0.56
42 days and above	0.72
No menses after delivery	2.86
Not recorded	38.71
Total	100.00



This Demographic Research Centre started in August 1954 and gives top priority to

- (i) collection of information on attitude towards family planning which may be of immediate use in educational programme and later help in assessing the changes in the attitudes brought about by family planning programme
  - (ii) investigation of socio-economic factors affecting fertility which may lead to appropriate social action for reducing birth rates
- and
- (iii) study of the effect of family planning programme on attitudes and birth rates in areas where it is being implemented.

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