



GOVERNMENT OF KERALA

SAMPLE REGISTRATION
KERALA — RURAL

ANNUAL REPORT No. 22

1984

DEPARTMENT OF ECONOMICS AND STATISTICS
TRIVANDRUM
DECEMBER 1986

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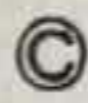
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The Government of Kerala
1987

PREFACE

The Sample Registration System is introduced in all the States of India under the directions of the Registrar General of India with the objective of obtaining reliable estimates of vital rates in the country regularly.

This report presents the results of operation of the scheme in rural areas of the State during the year 1984 by this Department. Besides the estimates of crude birth and death rates of rural population of the State, a number of other details, derived from sample registration data is included in this report.

This report was prepared by the Sample Registration Unit of the Directorate of Economics and Statistics.

Trivandrum,
3-12-1986.

K. BALAKRISHNAN NAIR,
Director of Economics and Statistics.

PREFACE

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This report presents the results of operation of the scheme in rural areas of the State during the year 1945 by this Department. Besides the estimates of crude birth and death rates of rural population of the State, a number of other details derived from sample registration have been included in this report.

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K. BHAKTAVATSALAM NAIR,
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Madras,
2-12-1945.

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CHAPTER 1

1. INTRODUCTION

Sample Registration System has been recognised as a unique technique for obtaining reliable and accurate vital rates, in the context of deficiencies in the statutory registration system. The Department of Economics and Statistics is conducting the study in rural areas of the State, while the Census Department in urban areas as per the directions of the Registrar General of India. This report is based on the findings of the survey in 150 samples selected in rural areas of the State for the year 1984.

The Sample Registration System, basically a sample survey designed to obtain reliable data on vital rates, was introduced in the State as a pilot project during 1964-65 in 20 rural and 5 urban samples. The full-fledged scheme was introduced on 1st July 1965 covering 150 samples in rural areas of the State on a regular basis. The sample design adopted is a stratified uni-stage sampling. Initially, samples were selected after stratifying the villages into four types according to population of below 500, 500 to 999, 1000 to 1999 and 2000 and above under the three natural regions of the State viz:- Lowland, Midland and Highland. The number of samples were allocated to different strata in proportion to the population as per 1961 census.

Seventy-five samples were replaced during the year 1982 and the remaining 75 were replaced during the year 1983 according to the population figures of 1981 census as per the direction of the Registrar General of India. Contrary to the previous distribution of samples in different strata under the three natural regions, samples were allocated in different strata under two regions viz, northern region and southern region. All the northern districts of the State beyond Trichur form the northern region and the remaining districts from Trichur to Trivandrum form the southern region.

1.2 Staff

One hundred and fifty part-time enumerators were engaged in the regular field work for reporting the births and deaths occurred in each sample during each month and 13 Computers deputed from Census Department in half yearly surveys. Additional district officers in each district conducted reverification work. At the State Headquarters, the nucleus staff consisting of a Regional Statistical Officer, a Research Assistant, a computer and two compilers attended to the work relating to the Sample Registration System.

1.3 Field work

The enumerators collected the details of births and deaths on regular basis through informants and house visits and reported the same to the District and State Headquarters every month. The computers conducted half yearly surveys independent of the enumerators for updating the population and for collecting details of births and deaths. The data collected by birth the enumerators and the computer Supervisors were matched at the district headquarters and the reverification of the unmatched and partially matched events was done by the additional district officers concerned.

1.4 Overlapping Survey

With every half yearly survey, the details of the previous half year were also collected in order to bring out the events missed, if any, by both the enumerator and supervisor during the previous half year. By this procedure 307 births and 61 deaths were detected during the year.

1.5 Intensive Enquiry

An intensive enquiry was conducted in 28 samples of the State indentified as deficient units for the year by senior officers of this Department through which 37 births and 5 deaths were detected.

CHAPTER 2

2. POPULATION AND ITS GROWTH

The population of Kerala Rural, estimated through the Sample Registration System was seen as 21301363 on 1st July 1984 and 21419706 on 1st January 1985 recording an increase of 0.55 per cent during the second half of 1984. The increase in population for the period in northern region was 1.20 per cent and that in southern region was 0.09 per cent. Percentage of population of Hindus, Muslims and Christians in rural Kerala, during the year 1984 was 5788, 2013 and 2199 respectively.

2.2 Sex ratio and percentage distribution of population by age

The sex ratio and the percentage distribution of population by age for the years 1971, 1983 and 1984 are furnished in Table 1.

TABLE 1

**Sex ratio and percentage distribution of population by age
in Kerala—Rural**

Age group	1971		1983		1984	
	Sex ratio	Population percentage	Sex ratio	Population percentage	Sex ratio	Population percentage
(1)	(2)	(3)	(4)	(5)	(6)	(7)
0-4	980	13.5	989	10.8	990	10.5
5-9	974	13.6	959	11.2	959	11.2
10-14	983	13.5	988	12.0	973	11.7
(0-14)	(976)	(40.6)	(979)	(34.0)	(974)	(33.4)
15-19	1078	10.9	1080	11.9	1054	11.5
20-24	1046	9.2	1152	10.5	1138	16.5
25-29	1103	6.4	1129	8.4	1126	8.5
30-34	1080	5.6	1049	6.3	1044	6.7
35-39	1080	6.0	1085	5.6	1100	5.6
40-44	1005	4.6	1073	4.3	1059	4.5
45-49	941	4.5	1065	4.6	1096	4.3
50-54	969	3.2	1052	3.6	1081	3.8
55-59	982	2.7	992	3.0	1024	3.1
60-64	1044	2.3	1067	2.7	1067	2.7
65-69	1086	1.6	1152	2.2	1118	2.2
70+	1116	2.4	1229	2.9	1180	2.9
All	1020	100.00	1054	100.00	1050	100.00

CHAPTER 3

3. MEASURES OF FERTILITY

3.1 Introduction

The crude birth rate which is the most common measures of fertility, age specific fertility rate, general fertility rate, total fertility rate, gross reproduction rate and net reproduction rate for the year 1984 have been estimated from the data collected and presented in this chapter.

3.2 Crude birth rate

Crude birth rate is defined as the number of live births per 1000 of mid year population. Only the births to the usual residents of the area are taken into account for the calculation of the vital rates.

The crude birth rate for Kerala rural, for the year 1984 was estimated as 23.7 which is 0.2 greater than that of the previous year. Birth rates for rural Kerala and rural India for the years 1977 to 1984 are given in Table 2.

TABLE 2

Crude birth rate for rural Kerala and rural India—1977–1984

<i>Year</i>	<i>Rural Kerala</i>			<i>Rural All India</i>
	<i>Northern Region</i>	<i>Southern Region</i>	<i>Total</i>	
(1)	(2)	(3)	(4)	(5)
1977	28.9	23.6	26.2	34.2
1978	30.6	21.7	25.8	34.6
1979	31.8	22.2	26.8	34.3
1980	30.5	23.4	26.8	35.0
1981	28.0	21.5	24.7	35.5
1982	27.9	21.3	24.3	35.5
1983	29.3	19.5	23.5	35.3
1984	28.5	20.3	23.7	35.1

3.3 Birth rates in Malabar and Travancore–Cochin areas of the State (Rural)

Based on the historical and socio-economic conditions, the State forms two distinct regions as Malabar and Travancore–Cochin regions. The former comprising of the northern districts beyond Trichur and the latter the remaining southern districts i.e. from Trivandrum to Trichur. Out of 150 samples selected for the rural areas 61 samples fall in Malabar region and 89 in Travancore–Cochin areas.

From Table 2 it can be seen that the birth rate in Malabar area is always higher than that in Travancore–Cochin area. This is mainly due to the social conditions such as low age at marriage of females, reluctant attitude towards family welfare activities, low literacy etc. prevalent among the majority of the residents in Malabar region.

3.4 Birth rates in rural areas of neighbouring States

As far as the neighbouring States are concerned Andhra Pradesh records the highest birth rate i.e. 31.0 during the year 1984 and Karnataka having the birth rate 30.9 stands second. As in the previous year, Kerala keeps the lowest birth rate.

3.5 Combined birth rates in Rural and Urban areas of neighbouring States

The combined birth rates for rural and urban areas of the State estimated provisionally for the year 1984 by the Registrar General of India in respect of the neighbouring States are given below:

TABLE 3

<i>States</i>	<i>Combined birth rate (Rural and urban)</i>
1	2
Andhra Pradesh	30.8
Karnataka	30.3
Tamil Nadu	27.7
Kerala	22.7
All India	33.8

3.6 Birth rates by religions

Table 4 presents the birth rates among major religious groups in the State for the year 1984:

TABLE 4

Birth rates among different religions-1984

<i>Regions</i>	<i>Religions</i>		
	<i>Hindu</i>	<i>Muslims</i>	<i>Christians</i>
1. Northern	24.44	37.96	21.12
2. Southern	20.04	24.70	19.56
State	21.79	33.76	19.80

Compared to the birth rates among major religious groups, the highest birth rate is among Muslims and lowest among Christians as in the previous year.

The Muslims in Malabar area who form 32.84 percent of the total population in the area, and 68.34 per cent of total Muslim population in the State are having the highest birth rate during the year i.e. 37.96 as against 36.75 in the previous year. As in the case of the previous year, the lowest birth rate is recorded in the southern region i.e. 19.56 as against 17.39 in the previous year and it is among Christians who form 31.96 per cent of the total population of the area and 84.48 percentage of the total Christian population.

3.7 Distribution of Sample villages under different birth rates

The distribution of sample villages by crude birth rate for the year 1984 is given in Table 5.

TABLE 5
Distribution of sample under different rates of birth 1984

Year	Region	Less than 16		16-19.9		20-23.9		24-27.9		28-31.9	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
1	2	3	4	5	6	7	8	9	10	11	12
1984	Malabar Northern Region	2	3.3	7	11.5	10	16.3	17	27.9	8	13.1
	Travancore Cochin Southern Region	15	16.9	29	32.6	26	29.2	12	13.5	5	5.6
	Total	17	11.3	36	24.0	36	24.0	29	19.4	13	8.7
1983	Rural Kerala	23	15.3	37	24.7	30	20.0	25	16.7	14	9.3
1982	Rural Kerala	11	7.3	39	26.0	30	20.0	27	18.0	19	12.7

TABLE—5 (cont.)

Year	Region	32-35.9		36-39.9		40-43.9		44 and above		All	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
11	12	13	14	15	16	17	18	19	20	21	22
1984	Malabar Northern Region	5	8.2	7	11.5	4	6.6	1	1.6	61	100.00
	Travancore Cochin Southern Region	..	..	1	1.1	..	..	1	1.1	89	100.00
	Total	5	3.3	8	5.3	4	2.7	2	1.3	150	100.00
1983	Rural Kerala	8	5.3	6	4.0	4	2.7	3	2.0	150	100.00
1982	Rural Kerala	16	10.7	5	3.3	2	1.3	1	0.7	150	100.00

Comparing the birth rates in the different sample villages with the State's rate it is seen that 19 samples (forming 31.1 per cent) in Malabar area and 70 samples (forming 78.7 per cent) in Travancore-Cochin area were having birth rate less than 24. The State rate 23.7 falls in the group 20-23.9 during the year 1984 also as in the case of the previous year. There are only two samples in the Travancore-Cochin area having birth rate above 32 and one sample each in Travancore-Cochin area and Malabar area having birth rate above 44.

3.8 Age specific fertility rate

Age specific fertility rate can be defined as the number of live births in an year to 1000 women of specific age group. The age specific fertility rates in 1984 and the previous years are given in Table 6.

TABLE 6
Age specific fertility rate in Rural Kerala
(1977-1984)

Age group	1977	1978	1979	1980	1981	1982	1983	1984
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
15-19	44.2	43.6	48.5	47.0	39.3	31.8	34.9	34.5
20-24	186.2	183.2	184.8	197.2	175.9	176.5	172.7	179.2
25-29	171.9	169.1	181.4	184.3	166.2	168.0	161.0	168.0
30-34	113.1	112.7	121.5	105.8	98.6	95.4	87.5	74.6
35-39	75.9	71.4	65.1	59.5	53.9	53.8	42.5	35.0
40-44	24.3	22.6	19.4	15.9	19.4	18.1	13.6	14.0
45-49	5.6	3.7	5.5	3.6	4.9	3.8	3.1	4.0

3.9 General fertility rate (G.F.R.)

General fertility rate (G.F.R.) is the number of live births in an year to 1000 women in the reproductive age group 15-49. The general fertility rate for the years 1977 to 1984 are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
G.F.R.	99.4	97.7	101.3	101.1	92.2	90.8	87.1	87.5

General fertility rate in Malabar area was 108.5 while it was 73.5 in Travancore-Cochin area during the year 1984.

3.10 Total fertility rate (T.F.R.)

Total fertility rate denotes the average number of children that would be born to a woman during her life time if she was to pass through her child bearing years conforming to the age specific fertility rate of the year. Total fertility rates for rural Kerala during 1984 and previous years are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
T.F.R.	3.1	3.0	3.1	3.1	2.8	2.7	2.6	2.6

Before a decade i.e. in 1974 the total fertility rate was 3.3. The total fertility rates in Malabar and Travancore-Cochin areas were 3.2 and 2.1 respectively during the year under report as against 3.4 and 2.0 respectively during the previous year.

3.11 Gross reproduction rate (G.R.R.)

Gross reproduction rate is the average number of female children, that would be born to a woman during her life time, if she was to pass through her child bearing years, conforming to the age specific fertility rates of the year. The gross reproduction rates for rural Kerala for the year 1977 to 1984 are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
G.R.R.	1.5	1.5	1.5	1.5	1.3	1.3	1.2	1.3

3.12 Net reproduction rate (N.R.R.)

Net reproduction rate shows the average number of female children that would be born to a woman during her life time conforming to the age specific fertility rate and mortality condition in the year. It is obtained by multiplying the age specific female birth rates of the child bearing age groups by corresponding proportion of survivors, as per life table for female (L_x/l_x) and then repeating the process as in gross reproduction rate. Net reproduction rate for the year 1984 is 1.26 as against 1.15 during the previous year.

Net reproduction rates for the year 1984 and previous years are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
N.R.R.	1.37	1.33	1.37	1.34	1.21	1.22	1.15	1.26

3.13 Still birth rate (S.B.R.)

Still birth rate is the number of still births to 1000 births (both the live births and still births).

The still birth rates for the year 1984 and previous years are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
S.B.R.	19.3	23.7	20.5	18.3	20.8	12.6	13.5	10.5

The still birth rates in Malabar and Travancore-Cochin regions during the year 1984 were 13.3 and 7.8 respectively as against 20.5 and 6.1 respectively during the previous year. Still birth rates for males and females are estimated as 10.8 and 10.4 respectively during this year while they were 16.2 and 10.6 during the previous year.

3.14 Comparison between the vital rates under Sample Registration System and Civil Registration System

Civil Registration System is a statutory system to record all the events of births and deaths. But the study on the comparison of vital rates under sample registration system and civil registration system reveals that the performance of the civil registration system has to improve to a great extent.

TABLE 7

Vital rates under Civil Registration System and Sample Registration System, Kerala—Rural

Years	Birth rates		Still birth rates	
	Civil Registration	Sample Registration	Civil Registration	Sample Registration
1	2	3	4	5
1977	16.0	26.2	6.3	19.3
1978	16.1	25.8	6.1	23.7
1979	16.3	26.8	6.1	20.5
1980	15.7	26.8	5.4	18.3
1981	15.9	24.7	5.1	20.8
1982	15.4	24.3	5.1	12.6
1983	*14.9	23.5	*4.5	13.5
1984	*14.2	23.7	*5.6	10.5

*Provisional

3.15 Order of birth

The observed number of births by age of mother and order of birth of child for 1984 is presented in table below:

TABLE 8

Age of mother and order of birth of child—1984

Age of mother	Total number of births	Order of birth									
		1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11	12
15-19	499	432	60	5	1	1	..	..	..	..	..
20-24	2391	1196	842	298	45	10	..	..	..	..	..
25-29	1897	430	628	515	205	73	33	10	3	..	..
30-34	643	45	114	165	123	97	53	30	11	2	3
35-39	238	7	26	29	32	41	43	27	19	12	2
40-44	76	4	4	3	6	15	9	10	8	5	12
45-49	24	..	..	1	4	3	3	3	3	2	5
Total	5768	2114	1674	1016	416	240	141	80	44	21	22

It is seen that out of 5768 births observed during the year 1984, as much as 83.28 per cent came under first three orders of birth while it was 81.42 per cent during 1983. The births under seventh order and above during the year was 2.89 of the total births as against 3.45 per cent during the previous year.

3.16 Medical attendance at birth

The percentage of birth under different types of medical attendance during the year 1977 to 1984 is given in Table 9 below:

TABLE 9

Medical attendance at birth (Percentage)

Years	Institutional	Trained Professional	Untrained Professional	Non-professional	Not stated
1	2	3	4	5	6
1977	35.6	17.6	31.8	13.9	..
1978	40.8	16.4	40.6	2.2	..
1979	45.4	27.5	25.9	1.2	..
1980	46.6	24.4	28.2	0.7	0.1
1981	47.8	26.7	23.6	1.7	0.2
1982	59.1	21.8	18.2	0.9	..
1983	68.9	16.1	13.1	1.9	..
1984	73.3	9.2	13.6	3.7	0.2

More and more people were seen utilising the institutional facilities provided for maternal and child health during all these years. Comparing the conditions in Malabar and Travancore-Cochin regions it is seen that institutional medical attention for the child birth in Malabar region is less than that in Travancore-Cochin region. The service of untrained professionals in northern region was seen slightly increased and decreased in southern region during the year.

3.17 Sex ratio at birth

Sex ratio at birth is the number of males/100 females. Sex ratio at birth during the year 1984 and previous years are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
Sex ratio	103.6	104.9	104.4	107.4	108.8	107.2	108.7	100.8

Sex ratio at birth in Malabar and Travancore-Cochin areas during the year were 107.2 and 97.0 respectively as against 111.4 and 104.6 respectively during 1983.

3.18 Child Woman Ratio (C.W.R.)

Child woman ratio is defined as the estimated number of children in the age group 0-4 years per 1000 women in the reproductive age group 15-49,

Estimated number of children in the age group 0-4 is 22,44,772.

Estimated number of women in age group 15-49 is 57,61,788.

The child woman ratios during the year 1984 and previous years are given below:

	1977	1978	1979	1980	1981	1982	1983	1984
C.W.R.	459	441	451	466	441	401	400	390

3.19 Number of marriages and age at marriage

The rate of marriage and remarriage per 1000 population (for males and females separately) which took place during the year 1984 is presented in Table 10.

The highest rate of first marriage per thousand female population during the year 1984 was 61.6 in the age group 20-24 as against 64.8 in the same age group during the previous year. In the case of males the highest rate of first marriage during the year was 66.6 in the age group 25-29 as against 53.8 in the same age group during the previous year. The rate of marriage of females in the age group 15-19 was seen decreased by 4.7 over the previous year, 4.55 per cent marriages were remarriages for both males and females during the year while it was 4.73 per cent during the previous year.

TABLE 10
Rate of marriage per 1000 population for the year 1984

Age group	First marriage		Remarriage		All marriages	
	M	F	M	F	M	F
	1	2	3	4	5	6
15-19	0.9 (0.9)	40.2 (35.5)	..	0.8 (15.4)	0.9 (0.9)	41.0 (34.5)
20-24	33.6 (30.4)	61.6 (49.9)	0.7 (12.5)	1.9 (33.3)	34.93 (39.6)	63.5 (49.1)
25-29	66.6 (49.4)	19.0 (12.4)	1.8 (26.6)	1.5 (20.5)	68.4 (48.3)	20.5 (12.8)
30-34	26.8 (16.3)	4.0 (1.9)	1.9 (23.4)	1.1 (11.6)	28.7 (16.6)	5.1 (2.4)
35-39	5.4 (2.7)	0.6 (0.3)	1.7 (17.2)	1.4 (12.8)	7.1 (3.4)	2.0 (0.8)
40-44	0.2 (0.1)	.. ()	0.2 (1.6)	0.2 (1.3)	0.4 (0.1)	0.2 (0.1)
45-49	0.6 (0.2)	0.2 (0.0)	2.4 (18.7)	0.7 (5.1)	3.0 (1.1)	0.7 (0.3)
15-49	21.8 (100.00)	25.5 (100.00)	1.1 (100.00)	1.2 (100.00)	22.90 (100.00)	26.6 (100.00)

The highest rate of first marriage per thousand population in the year 1984 was 61.6 in the age group 20-24. The rate of marriages in the same age group during the previous year was 49.9. The rate of first marriage per thousand population during the year 1984 was 21.8 in the age group 15-49. The rate of remarriage of females in the year 1984 was 1.1 per cent during the previous year. The rate of remarriage of males in the year 1984 was 1.2 per cent during the previous year. The rate of remarriage of both males and females during the year 1984 was 1.15 per cent during the previous year.

CHAPTER 4
MORTALITY MEASURES

4.1 Crude death rate

The crude death rate for rural Kerala in 1984 is 6.4 as against 6.6 during 1983. As in the case of births, the deaths occurred to usual residents only were taken into account for calculating the death rate.

The crude death rates for rural Kerala and rural India from 1977 onwards are given in Table 11 hereunder:

TABLE 11

Crude death rate in Kerala Rural and All India Rural—1977-84

Years	Kerala Rural			All India
	Northern Region	Southern Region	Combined	Rural
1977	8.39	6.64	7.3	16.0
1978	8.37	6.22	7.2	15.3
1979	8.63	5.84	7.2	13.9
1980	7.51	6.71	7.1	13.7
1981	6.91	6.07	6.5	13.6
1982	6.32	5.60	5.9	13.1
1983	7.19	6.18	6.6	13.1
1984	6.90	6.00	6.4	13.7

Malabar Region recorded the highest death rate during the year 1984, as in the previous year.

4.2 Death rates in rural areas of neighbouring States

Compared to the death rates in the rural areas of neighbouring states Tamil Nadu recorded the highest death rate during 1984 while Kerala the lowest.

4.3 Death rates in rural and urban areas

As regards to the urban areas of the neighbouring State Karnataka recorded the lowest death rate during the year 1984 while Tamil Nadu the highest. The rural death rates were seen higher than the urban death rates except Kerala. The combined death rates for rural and urban of the neighbouring States are presented in Table 12.

TABLE 12

Combined death rates (Rural and Urban) – Provisional

<i>States</i>	<i>Combined death rates Rural and Urban</i>
(1)	(2)
Andhra Pradesh	10.9
Karnataka	9.6
Kerala	6.4
Tamil Nadu	10.7
All India	12.5

Source:—Registrar General, India

4.4 Death rate among religious groups

Table 13 presents the death rates among major religious groups in rural Kerala for the year 1984.

TABLE 13

Death rates among major religious groups—1984

Regions	Hindus	Muslims	Christians
1	2	3	4
Northern Region ..	7.87	6.11	3.26
Southern Region ..	6.47	4.59	5.77
State ..	7.07	5.63	5.38

As in the previous year the highest and lowest death rates were in Malabar area, the highest was among Hindus and the lowest among Christians. During 1984 the death rates were seen increased among the Hindus and decreased among Muslims and Christians in both Regions.

As such at State level the highest death rates during the year was among Hindus and the lowest was among Christians as in the previous year.

4.5 Distribution of Samples by death rates

The distribution of Samples by death rates for the year 1984 is given in Table 14.

TABLE 14
Distribution of samples under different rates of death 1984

Year	Region	Samples	Death Rates											
			Below 2	2 to 2.9	3 to 4.9	5 to 6.9	7 to 8.9	9 to 10.9	11 to 12.9	13 to 14.9	15 to 16.9	17 and above	All	
1984	Malabar	No. Percentage	.. ..	1.0 1.6	16.0 26.2	22.0 36.1	8.0 13.1	11.0 18.1	2.0 3.3	1.0 1.6	.. ..	.. ..	.. ..	61.00 100.00
	Travancore- Cochin	No. Percentage	3.0 3.4	9.0 10.1	18.0 20.2	31.0 34.9	15.0 16.9	10.0 11.2	2.0 2.2	.. ..	1.0 1.1	.. ..	.. ..	89.00 100.00
	Total	No. Percentage	3.0 2.0	10.0 6.7	34.0 22.6	53.0 35.3	23.0 15.3	21.0 14.0	4.0 2.7	1.0 0.7	1.0 0.7	.. ..	.. ..	150.00 100.00
1983	Rural Kerala	No. Percentage	5.0 3.3	4.0 2.7	32.0 21.3	46.0 30.7	37.0 24.7	20.0 13.3	5.0 3.3	1.0 0.7	.. ..	.. ..	.. ..	150.00 100.00
1982	Rural	No. Percentage	7.0 4.6	8.0 5.3	40.0 26.7	43.0 28.7	31.0 20.7	15.0 10.0	4.0 2.7	.. ..	2.0 1.3	.. ..	.. ..	150.00 100.00

During the year under report 39 samples forming 63.9 per cent of Malabar area and 61 samples forming 68.6 per cent of Travancore-Cochin area were having death rates less than 7 as against 47.5 per cent in Malabar area and 65.2 per cent in Travancore-Cochin area during the previous year. In regard to State, 100 samples forming 66.7 per cent were having the above death rates during 1984 as against 58 per cent during the previous year.

4.6 Age Specific death rate

Age specific death rate is the number of deaths in a specific age group in a particular year among 1000 persons of that age group. The age specific death rates of males and females in the two regions of the State are presented in annexure 10 appended.

The age specific death rate was the highest in the age group 70 and above and lowest in the age group 10-14 during the year 1984 as in the previous year.

As far as the males and females are concerned the age specific death rate of males in all the age groups except the age groups 5-9 and 10-14 were seen higher than those of females. During 1983 the difference between the age specific death rates of males and females in the age group 70 and above was 32.26 but during the year 1984 it was 22.90.

4.7 Infant mortality rate

Infant mortality rate is the estimated number of deaths of infants below 1 year of age out of 1000 live births in an year. The infant mortality rates for rural Kerala for the year 1977 to 1984 are furnished below:

	1977	1978	1979	1980	1981	1982	1983	1984
Infant mortality Rate	50.7	44.8	48.6	42.5	40.4	30.3	38.9	30.1

Infant mortality rates in Malabar and Travancore-Cochin regions during the year were 35.3 and 25.0 respectively as against 46.2 and 31.2 respectively during the previous year.

4.8 Neo-natal death rate

Neo-natal death rate can be defined as the number of deaths of children below 28 days of age per 1000 live births in an year. It is estimated as 21.3 during the year as against 28.3 during the previous year. Neo-natal death rate for male during the year was 24.9 while that for female was 17.7. The infant mortality has been distributed

according to the period within which the infant died before completing one year of age, such as less than 7 days, 7 to 27 days and 28 days and above. The table 15 provides the rates in each period.

TABLE 15

Infant death rates distributed over different periods within which the infant died

<i>Region</i>	<i>Less than 7 days</i>	<i>7 to 27 days</i>	<i>Less than 28 days</i>	<i>28 days and above</i>	<i>Total</i>
(1)	(2)	(3)	(4)	(5)	(6)
Northern region	20.42	4.76	25.18	10.08	35.26
Southern region	12.36	4.82	17.18	7.86	25.04
State	16.35	4.79	21.14	8.96	30.10

4.9 Vital rates under Civil Registration and Sample Registration System

The vital rates under civil registration and sample registration system are furnished in table 16.

TABLE 16

Vital rates under Civil Registration and Sample Registration System 1977 to 1984

<i>Year</i>	<i>Death rate</i>		<i>Infant mortality rate</i>	
	<i>Civil Registration</i>	<i>Sample Registration</i>	<i>Civil Registration</i>	<i>Sample Registration</i>
(1)	(2)	(3)	(4)	(5)
1977	4.2	7.3	16.3	50.7
1978	4.1	7.2	13.2	44.8
1979	4.1	7.2	11.4	48.6
1980	4.0	7.1	11.7	42.5
1981	4.0	6.5	12.2	40.4
1982	3.7	5.9	10.9	30.3
1983	* 3.8	6.6	* 8.2	38.9
1984	* 3.7	6.4	* 8.7	30.1

* Provisional

The table above shows how the Civil Registration System fails to serve its moto and to what extent its activities should be improved.

4.10 Medical attendance at death

The percentage of deaths under different types of medical attention at the time of death is furnished in table 17.

TABLE 17

Medical attendance at death (Percentage) Kerala Rural 1977 to 1984

<i>Year</i>	<i>Institution</i>	<i>Recognised practitioner</i>	<i>Unrecognised practitioner</i>	<i>None</i>
(1)	(2)	(3)	(4)	(5)
1977	22	33	19	26
1978	22	34	24	26
1979	30	34	11	20
1980	32	32	19	25
1981	41	31	12	17
1982	44	31	10	16
1983	46	26	7	15
1984	46	24	8	22

The percentages of deaths to persons who received institutional service in Travancore-Cochin area was more than that in Malabar area during the year. Deaths without medical service in Malabar area was seen decreased and increased in Travancore-Cochin area during the year. The Percentage of such deaths in Malabar and Travancore-Cochin area was 18.9 and 24.9 respectively.

4.11 Expectation of Life

Life tables have been constructed using the age specific death rates for 1982, 1983 and 1984 and are presented in annexures 19, 20 and 21. The expectation of life at birth for the year 1984 for the people as a whole was 69.67 as against 68.77 years during the previous year. Regarding male population the expectation of life for 1984 was 66.47 years and females 73.40 years.

ANNEXURE I

Number of units and population in the universe and in samples

Stratum	Universe		Samples		6 Percentage of sample Population	7 Raising factor for stratum estimates P/p
	2 Number of Cen- sus Villages	3 Population (1981) P	4 Number of units selected	5 Population (1981) P		
I						
A	73	33158	2	658	1.98	50.39210
B	217	171582	2	1540	0.90	111.41688
C	519	773395	6	7972	1.03	97.01392
D	1265	7421252	51	87246	1.17	85.06123
Northern Region	2074	8399387	61	97416	1.16	..
II	260	87991	2	723	0.82	121.70263
A	415	325570	3	1915	0.59	170.01044
B	894	1353880	10	14845	1.09	91.20108
C	2134	10515577	74	120631	1.15	87.17143
D	3703	12283018	89	138114	1.12	..
Southern Region	5777	20682405	150	235530	1.14	..
Kerala						

ANNEXURE 2

Observed population in the samples and estimated population for each stratum

Stratum	Observed population in samples in each stratum		Estimated population for each stratum	
	1-7-1984	1-1-1985	1-7-1984	1-1-1985
I	2	3	4	5
I	679	686	34216	34569
A	1418	1480	157989	164897
B	8395	8535	814432	828014
C	91152	92162	7753501	7839413
D	101644	102863	8760138	8866893
II	697	704	84827	85679
A	1904	1910	323700	324720
B	15122	15132	1379143	1380055
C	123361	123462	10753555	10762359
D	141084	141208	12541225	12552813
Northern Region	242728	244071	21301363	21419706
II	..	..	..	..
Southern Region	..	..	..	..
State	..	..	..	..

ANNEXURE 3

Mid-year population (observed in the selected samples) and estimated population according to age and sex

Age	Observed population			Estimated population		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
0-1	2600	2568	5168	227105	225396	452501
1-4	10302	10184	20486	900803	891468	1792271
5-9	13987	13410	27397	1224444	1174809	2399253
10-14	14433	14070	28503	1266323	1232597	2498920
15-19	13961	14728	28689	1226131	1292651	2518782
20-24	11873	13531	25404	1043645	1187814	2231459
25-29	9709	10946	20655	852632	960023	1812655
30-34	7954	8293	16247	696684	727509	1424193
35-39	6445	7081	13526	564991	621744	1186735
40-44	5265	5574	10839	462557	489803	952360
45-49	5006	5485	10491	439853	482244	922097
50-54	4447	4809	9256	390901	422703	813604
55-59	3677	3756	7433	323138	330882	654020
60-64	3150	3356	6506	276962	395643	572605
65-69	2469	2757	5226	217921	243626	461547
70 and above	3160	3742	6902	279027	329334	608361
Total	118438	124290	242728	10393117	10908246	21301363

ANNEXURE 4

Live births observed in selected samples and estimated for 1984 (Stratum-wise)

Stratum/Region/ State	Observed in selected samples			Estimated		
	Male	Female	Total	Male	Female	Total
I	2	3	4	5	6	7
A	10	4	14	504	202	706
B	26	21	47	2897	2340	5237
C	116	128	244	11253	12418	23671
D	1346	1239	2585	114492	105391	219883
Northern Region	1498	1392	2890	129146	120351	249497
II	9	3	12	1095	365	1460
A	13	13	26	2210	2210	4420
B	157	121	278	14319	11035	25354
C	1236	1326	2562	107744	115589	223333
D	1415	1463	2878	125368	129199	254567
Southern Region						
State	2913	2855	5768	254514	249550	504064

ANNEXURE 5
Age specific fertility rate G. F. R. T. F. R. and G. R. R. for 1984

Region	No. of women estimated in the age group of									Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	8	9	
I										
I Northern region	523152	469110	368012	294210	257462	200799	187123			2299868
II Southern region	769499	718704	592011	433299	364282	289004	295121			3461920
State	1292651	1187814	960023	727509	621744	489803	482244			5761788
No. of BIRTHS (ESTIMATED)										
I Northern region	30546	100693	67104	29134	15033	5335	1652			249497
II Southern region	14093	112126	94183	25112	7218	1573	262			254567
State (All births)	44639	212819	161287	54246	22251	6908	1914			504064
State (Female births)	20392	105412	82496	26582	10886	3185	597			249550

ANNEXURE 5—(cont.)

Region	No. of women estimated in the age group of								G.F.R.	T.F.R.	G.R.R.
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	8			
I											
AGE SPECIFIC FERTILITY RATE											
I Northern region	58.38	214.64	182.34	99.02	58.38	26.56	8.82	108.48	3.24	1.26	
II Southern region	18.31	156.01	159.08	57.95	19.81	5.44	0.88	73.53	2.09	..	
State (All births)	34.53	179.16	168.00	74.56	35.78	14.10	3.96	87.48	2.55	..	
State (Female births)	15.78	88.74	85.93	36.53	17.50	6.50	1.23	..	..	..

Births by type of medical attention at delivery 1984

Stratum	Type of medical attention						
	Institutional	Trained professional	Untrained professional	Non-professional	Not stated	Total	
I	2	3	4	5	6	7	
I	11	2	1	..	..	14	
B	25	10	8	4	..	47	
C	147	40	45	12	..	244	
D	1453	349	631	145	7	2585	
	1636	401	685	161	7	2890	
II	11	..	1	..	..	12	
A	26	..	..	..	..	26	
B	237	34	6	1	..	278	
C	2320	97	90	53	2	2562	
D	2594	131	97	54	2	2878	
State	4230 (73.3)	532 (9.2)	782 (13.6)	215 (3.7)	9 (0.2)	5768 (100.0)	

ANNEXURE 8

Deaths observed and estimated by sex 1984

Stratum	Deaths observed in samples			Deaths estimated		
	Male	Female	Total	Male	Female	Total
I	2	3	4	5	6	7
I. A	3	1	4	151	50	201
B	4	3	7	446	334	780
C	26	28	54	2522	2716	5238
D	375	263	638	31898	22371	54269
Northern region	408	295	703	35017	25471	60488
II. A	1	2	3	122	243	365
B	5	2	7	850	340	1190
C	60	41	101	5472	3739	9211
D	420	321	741	36612	27982	64594
Southern region	486	366	852	43056	32304	75360
State	894	661	1555	78073	57775	135848

ANNEXURE 9

Number of deaths by age and sex 1984

Region	Sex	All ages	Age in years										
			Less than 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34			
1	2	3	4	5	6	7	8	9	10	11			
Northern	All	703	103	46	21	12	16	13	22	10	10		
Southern	All	852	71	18	9	11	13	23	22	21			
State	All	1555	174	64	30	23	29	36	44	31			
"	Male	894	102	35	15	10	20	19	24	20			
"	Female	661	72	29	15	13	9	17	20	11			

ANNEXURE 9—(cont.)

Region	Sex	Age in year									
		35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 and above		
1	3	12	13	14	15	16	17	18	19		
Northern	All	14	12	20	41	4	39	61	232		
Southern	All	14	18	29	39	43	74	80	367		
State	All	28	30	49	80	84	113	141	599		
"	Male	18	24	29	58	62	67	76	315		
"	Female	10	6	20	22	22	46	65	284		

ANNEXURE 10
Age Specific death rate (based on estimated values) 1984

Region	Sex	All ages	Age groups										
			Less than 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34			
1	2	3	4	5	6	7	8	9	10	11			
Northern region	Both	6.90	40.92	4.58	1.57	0.96	1.38	1.28	2.78	1.52			
Southern region	Both	6.01	26.84	1.72	0.62	0.68	0.76	1.47	1.77	2.27			
State	Both	6.38	33.53	3.13	1.07	0.80	1.01	1.40	2.15	1.97			
"	Male	7.51	39.40	3.39	1.03	0.69	1.42	1.58	2.54	2.61			
"	Female	5.30	27.61	2.86	1.11	0.91	0.62	1.24	1.80	1.36			

ANNEXURE 10—(cont.)

Region	Sex	Age groups										
		35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+			
		12	13	14	15	16	17	18	19			
Northern region	Both	2.49	2.70	4.72	11.25	15.25	15.75	31.67	105.41			
Southern region	Both	1.74	2.76	4.70	6.82	9.16	18.02	23.72	77.29			
State	Both	2.04	2.74	4.71	8.53	11.29	17.18	26.56	86.09			
"	Male	2.75	4.51	5.91	12.84	16.77	21.00	30.26	98.49			
"	Female	1.40	1.06	3.61	4.55	5.93	13.59	23.26	75.59			

ANNEXURE 11

Deaths observed in samples classified by month of occurrence 1984

Stratum	Months												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
I	2	3	4	5	6	7	8	9	10	11	12	13	14
I A	..	..	..	1	1	1	..	..	..	..	..	1	4
I B	..	..	1	..	..	1	1	1	..	..	..	2	7
I C	5	4	5	3	3	3	6	10	2	2	4	7	54
I D	64	36	50	44	46	44	73	74	48	66	48	45	638
Northern region	69	40	56	48	50	49	80	85	50	68	53	55	703
II A	..	..	..	..	1	..	1	..	..	..	..	1	3
II B	..	..	..	..	1	2	3	..	..	..	1	..	7
II C	12	5	9	8	6	11	9	6	9	10	8	8	101
II D	63	59	53	49	63	82	60	62	54	56	59	81	741
Southern region	75	64	62	57	71	95	73	68	63	66	68	90	852
State	144	104	118	105	121	144	153	153	113	134	121	145	1555

ANNEXURE 12

Deaths classified by type of medical attention 1984

Stratum	Type of medical attention				Total
	Institutional	Recognised practitioner	Unrecognised practitioner	None	
I	2	3	4	5	6
I A	3	..	..	1	4
B	2	..	2	3	7
C	33	13	6	2	54
D	222	208	81	127	638
Northern region	260	221	89	133	703
II A	2	..	1	..	3
B	3	2	..	2	7
C	53	33	..	15	101
D	389	124	33	195	741
Southern region	447	159	34	212	852
State	707	380	123	345	1555

ANNEXURE 13

Infant deaths observed and estimated and infant death rate for stratum 1984

Stratum	Infant deaths observed		Infant deaths estimated		Estimated live births	Infant death rate		
	Male	Female	Male	Female				
	2	3	4	5	6	7	8	9
I								
A	1	..	1	50	..	50	706	70.82
B	..	..	..	388	..	582	5237	24.58
C	4	2	6	5104	194	8166	23671	37.13
D	60	36	96	5542	3062	8798	219883	35.26
Nothern region	65	38	103	..	3256	..	1460	..
II	..	..	..	340	..	340	4420	76.92
A	2	..	2	365	..	456	25354	17.98
B	4	..	5	2702	91	5579	223333	24.98
C	31	33	64	3407	2877	6375	254567	25.04
D	37	34	71	..	2968	..	..	..
Southern region	..	..	..	..	..	..	..	..
State	102	72	174	8949	6224	15173	504064	30.10

ANNEXURE 14

Infant deaths observed in the selected sample 1984

Stratum	Born in 1983								Born in 1984								Total	
	Less than 7 days		28 days and less		29 days and less than one year		Total		Less than 7 days		28 days and less		29 days and less than one year		Total			
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
I A	1	..	..	..	..	..	1	..		
I B		
I C		
I D		
Northern Region		
II A		
II B		
II C		
II D		
Southern Region		
State	2	3	3	3	5	8	13	11	56	34	11	11	22	16	89	61		

ANNEXURE 15

Still births observed and estimated and still birth rate for stratum 1984

Stratum	Still births observed		Still births estimated		Total	Live births and still births estimated	Still birth rate	
	Male	Female	Male	Female				
	2	3	4	5	6	7	8	9
I								
A	..	..	..	..	..	..	706	..
B	..	..	..	..	..	..	5237	12.14
C	..	3	3	..	291	291	23962	13.73
D	20	16	36	1701	1361	3062	222945	13.26
Northern Region	20	19	39	1701	1652	3353	252850	..
II	..	..	..	..	..	..	1460	..
A	..	..	..	..	..	..	4420	..
B	..	..	..	..	..	..	25445	3.57
C	12	10	1	1046	872	1918	225251	8.51
D	12	11	23	1046	963	2009	256576	7.83
Southern Region	..	..	..	..	..	..	..	..
State	32	30	62	2747	2615	5362	509426	10.52

ANNEXURE 16
Estimated population, births, deaths and vital rates 1984

Stratum	Estimated population, births and deaths						Vital rates			
	1	2	3	4	5	6	7	8	9	10
	Population	Births	Deaths	Still births	Infant deaths	Birth rate	Death rate	Still birth rate	Infant death rate	
I										
A	34216	706	201	..	50	20.63	5.87	..	70.82	
B	157989	5237	780	..	..	33.14	4.93	..	24.58	
C	814432	23671	5238	291	582	29.06	6.43	12.14	37.13	
D	7753501	219883	54269	3062	8166	28.35	6.99	13.73	35.26	
Northern Region	8760138	249497	60488	3353	8798	28.48	6.90	13.26		
II										
A	84827	1460	365	..	..	17.21	4.30	..	76.92	
B	323700	4420	1190	..	340	13.65	3.67	..	17.98	
C	1379143	25354	9211	91	456	18.38	6.67	3.57	24.98	
D	10753555	223333	64594	1918	5579	20.76	6.00	8.51	25.04	
Southern Region	12541225	254567	75360	2009	6375	20.29	6.00	7.83		
State	21301363	504064	135848	5362	15173	23.66	6.37	10.52	30.10	

Extra events detected through overlapping and Intensive survey classified according to place and kind 1984

Stratum	Births						Deaths					
	Place			Kind			Place			Kind		
	Total	In	Out	LB	SB	Total	In	Out	Infant deaths	Other deaths		
I	2	3	4	5	6	7	8	9	10	11		
A	2	2	..	2	..	..	..	..	..	..
B	..	..	..	..	..	..	..	..	..	..
C	9	3	6	9	..	..	..	..	..	..
D	164	72	92	162	2	40	29	11	6	34		
Northern Region	175	77	98	173	2	40	29	11	6	34		
II	..	..	..	..	..	..	..	..	..	..
A	1	..	1	1	..	..	..	..	..	..
B	18	4	14	18	..	2	..	2	2	..		
C	155	19	136	152	3	24	12	12	4	20		
D	174	23	151	171	3	26	12	14	6	20		
Southern Region												
State	349	100	249	344	5	66	41	25	12	54		

ANNEXURE 19

Abridged life table based on mean age specific death rate for the years 1982, 1983 and 1984 (males)

Age x to x+n	Age specific death rate			Mean age specific death rate (m _x)	Probability of a person aged x, dying before age x+n (q _x)	Number of deaths (d _x)	Number surviving to age x out of 10000 born alive (l _x)	Years of life lived between x and x+n (L _x)	Years of life lived at x and above (T _x)	Expectation of life in years (E _x)	Beginning age (x)
	1982	1983	1984								
1											
< 1	37.14	46.57	39.40	0.04104	0.03494	3494	100000	96951	6646961	66.47	0
1 to 4	4.00	3.99	3.39	0.00379	0.01405	1452	96506	383120	6550010	67.47	1
5-9	1.47	1.56	1.03	0.00135	0.00672	639	95054	473675	6166890	64.88	5
10-14	0.69	0.80	0.69	0.00073	0.00363	343	94415	471220	5693215	60.30	10
15-19	0.86	0.99	1.42	0.00109	0.00545	513	94072	469080	5221995	55.51	15
20-24	0.75	0.92	1.58	0.00108	0.00539	504	93559	466535	4752915	50.80	20
25-29	1.70	2.17	2.54	0.00214	0.01064	990	93055	462800	4286380	46.06	25
30-34	2.15	2.30	2.61	0.00235	0.01168	1075	92065	457640	3823580	41.53	30
35-39	2.95	3.21	2.75	0.00297	0.01474	1341	90990	451600	3365940	36.99	35
40-44	4.64	5.16	4.51	0.00477	0.02362	2118	89649	442950	2914340	32.51	40
45-49	6.65	7.94	5.91	0.00683	0.03358	2939	87531	430310	2471390	28.23	45
50-54	12.90	8.24	12.84	0.01133	0.05509	4660	84592	411310	2041080	24.13	50
55-59	15.58	15.21	16.77	0.01585	0.07623	6093	79932	384430	1629770	20.39	55
60-64	24.26	26.52	21.00	0.02393	0.11290	8336	73839	348355	1245340	16.87	60
65-69	32.97	33.13	30.26	0.03212	0.14866	9738	65503	303170	896985	13.69	65
70 and above	80.94	102.29	98.49	0.09391	1.00000	55786	55765	593815	593815	10.65	70

ANNEXURE 20
 Abridged life table based on mean age specific death rate for the years 1982, 1983 and 1984 (Female)

Age x to x+n	Age specific death rate				Mean age specific death rate (mx)	Probability of person aged x dying before age x+n (qx)	Number of deaths (dx)	Number of surviving to age x out of 10000 before alive (lx)	Years of life lived between x and x+n (Lx)	Years of life lived at x and above x (Tx)	Expectation of life in years (Ex)	Beginning age (x)
	1982	1983	1984	1984								
1												
< 1	34.43	41.05	27.61	0.03436	0.02539	2539	100000	97849	7339917	73.40	0	
1-4	2.78	5.07	2.86	0.00357	0.01408	1372	97461	387100	7242068	74.31	1	
5-9	1.07	0.78	1.11	0.00099	0.00494	475	96089	479258	6854968	71.34	5	
10-14	0.52	0.54	0.91	0.00066	0.00324	310	95614	477295	6375710	66.68	10	
15-19	1.06	1.02	0.62	0.00090	0.00449	428	95304	475450	5898415	61.89	15	
20-24	1.05	1.17	1.24	0.00115	0.00573	544	94876	473020	5422965	57.16	20	
25-29	1.95	1.37	1.80	0.00171	0.00851	803	94332	469653	4949945	52.47	25	
30-34	0.99	1.14	1.36	0.00116	0.00579	542	93529	466290	4480292	47.90	30	
35-39	2.31	1.16	1.40	0.00162	0.00807	750	92987	463060	4014002	43.17	35	
40-44	1.76	3.31	1.06	0.00204	0.01015	936	92237	458845	3550942	38.50	40	
45-49	2.94	2.99	3.61	0.00318	0.01578	1441	91301	452903	3092097	33.87	45	
50-54	5.68	4.65	4.55	0.00496	0.02450	2202	89860	443795	2639194	29.37	50	
55-59	7.86	7.59	5.93	0.00713	0.03503	3071	87658	430613	2195399	25.04	55	
60-64	14.32	12.77	13.59	0.01356	0.06577	5563	84587	409028	1764786	20.86	60	
65-69	22.87	16.22	23.26	0.02078	0.10336	8168	79024	374700	1355758	17.16	65	
70 and above	71.04	70.03	75.59	0.07222	1.00000	70856	70856	981058	981058	13.85	70	

ANNEXURE 21

Abridged life table based on mean age specific death rate for the years 1982, 1983 and 1984 (Males and Females)

Age x to x + n	Age specific death rate			Mean age specific death rate (NM x)	Probability of a person aged x dying before age x+n (qx)	Number of death (dx)	Number of surviving to age x out of 100000 born alive (lx)	Years of life lived between x and above (Lx)	Years of life lived at x and above x (Tx)	Expectation of life in years (Ex)	Beginning age (x)
	1982	1983	1984								
1	2	3	4	5	6	7	8	9	10	11	12
< 1	35.81	43.86	33.53	0.03773	0.03022	3022	100000	97395	6966980	69.67	0
1-4	3.40	4.53	3.13	0.00369	0.01465	1421	96978	385070	6869585	70.84	1
5-9	1.27	1.17	1.07	0.00117	0.00583	557	95557	476393	6484515	67.86	5
10-14	0.60	0.67	0.80	0.00069	0.00344	327	95000	474183	6008122	63.24	10
15-19	0.96	1.01	1.01	0.00099	0.00494	468	94673	472245	5533939	58.45	15
20-24	0.91	1.05	1.40	0.00112	0.00558	526	94205	469710	5061694	53.73	20
25-29	1.83	1.74	2.15	0.00197	0.00980	918	93679	466100	4591984	49.02	25
30-34	1.56	1.70	1.97	0.00174	0.00866	803	92761	461798	4125884	44.48	30
35-39	2.61	2.15	2.04	0.00227	0.01129	1038	91958	454695	3664086	39.85	35
40-44	3.14	4.20	2.74	0.00336	0.01666	1515	90920	450813	3209391	35.30	40
45-49	4.70	5.39	4.71	0.00490	0.02414	2158	89405	441880	2758578	30.85	45
50-54	9.17	6.40	8.53	0.00803	0.03936	3434	87247	427650	2316698	26.55	50
55-59	11.75	11.41	11.29	0.01148	0.05580	4677	83813	407373	1889048	22.54	55
60-64	19.16	19.42	17.18	0.01859	0.08882	7029	79136	378103	1481675	18.72	60
65-69	27.81	24.08	26.56	0.02615	0.12277	8853	72107	338428	1103567	15.30	65
70 and above	75.61	84.50	86.09	0.08267	1.00000	63254	63254	765139	765139	12.09	70

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