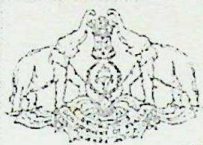


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Government of Kerala

Sample Registration of Births & Deaths
Kerala 1996

Department of Economics and
Statistics, Thiruvananthapuram

June 2002

PREFACE

The Sample Registration System was introduced in all the States of India under the direction of the Registrar General of India ~~under the directions of the Registrar General of India~~ in 1964. The object of the System is to avoid the problems involved in the functioning of Civil Registration System. Sample Registration System had been introduced with 20 selected samples and at present the survey is being conducted in 150 rural samples of the state by this department.

The report presents the results of the study in rural areas of Kerala State for the year 1996. This report includes the details of population marriages, sex ratio, crude birth rate, death rate, Infant mortality rate, etc.

This report is prepared by the Sample Registration unit of the Directorate of Economics and Statistics.

A.MEERA SAHIB
DIRECTOR



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Sample Registration of Births and Deaths in Kerala Rural – 1996

CHAPTER – I

Introduction

The Sample Registration System is a dual recording system and it provides reliable vital rates at the National and State level separately for urban and rural areas. The insufficiencies in Civil Registration System have made the Sample Registration System as a unique technique for obtaining reliable vital rates. The department of Economics and Statistics is the implementing agency of the study in rural and urban areas as per directions from the Registrar General of India. This report presents the findings of the operation of the Sample Registration System in the 150 samples selected in the rural sector for the year 1996.

The Sample Registration System was introduced in the State during the year 1964 as a pilot project in 20 rural and 5^{urban} sample units. The full-fledged scheme was introduced on a regular basis by extending the survey in 150 rural samples in the state on 1st July 1965. The Director of Census Operations was in charge of the work in the urban areas since 1970. The fieldwork of the survey was conducted in the selected 150 rural samples units in the State. Instead of the stratum wise tables, district level tables have been incorporated in the survey report since 1995.

1.2 Staff engaged in the Survey

The registration of all births and deaths occurred in each sample units was carried out by 150 part-time enumerators appointed for the purpose and the details were reported to this office for each month. The half yearly surveys in these 150 units were conducted by 17 Statistical Assistants/computers deputed for this purpose from the Census Directorate. The Additional District Officers of this department in the district supervised the Field work and conducted re-verification of the unmatched and partially matched events. On RSO, One RA, two Compilers and one computer from Census department attended the Sample Registration work in the Head Quarters.

1.3 Field Work

As per the instruction of the survey, a base line survey was conducted in all the newly selected sample units. During the base line survey the house list, house hold list, list of pregnant women, and notional map of the sample area were prepared by the supervisor with the help of part time enumerator of the respective sample units. Moreover the part time enumerator of each sample unit is responsible for the continuous enumeration survey and to report the births and deaths occurred in the sample units. The supervisors have to conduct the half-yearly survey and furnish the final results of each sample to district office soon after the completion of the Field work of the survey. After the matching process the partially matched and unmatched events should be reverified by the Additional District Officer (SR) of the District Office.

1.4 Overlapping Survey

While conducting the half-yearly survey by supervisor, he should also collect the details of birth and death of the last half year in order to find out the missing event of that period. During the year under 139 report birth events and 41 death events were netted in the overlapping survey.



CHAPTER – II

Estimated population in rural areas of Kerala

2.1 Population and its growth

The rural population of Kerala was estimated as 23360561 on 1.7.1996 and 23477096 on 1.1.1997 recording an increase of .50% during the 2nd half of 1996. District wise analysis shows that population in Malappuram is 3078425 in which Male and Female populations are 1500517 and 1577908 respectively. Palakkad District comes next with 2154734 numbers. The lowest estimated population is in Wayanad with 775361 numbers.

2.2 Sex ratio and percentage distribution of population by age group

Sex ratio based on age group was highest in the age of 25-29, being 1221 and the corresponding figure against the age group 70 and above is 1195. It is the lowest in the age group 5-9. Considering the classification of population in terms of age group, the highest percentage population is 10.62 for the age group 10-14 and it is the lowest for the age group 65-69, being 2.51%.

2.3 Religion wise Population

Classification of estimated population based on religion wise viz. Hindu, Muslim and Christian in the State was 13410326, 5729861 and 4220374 respectively. Out of the total population 57.41% were Hindus, 24.53% Muslims and 18.06% Christians. District wise figures shows that Hindus were maximum in Thiruvananthapuram followed by Kollam. In the case of Muslim it was maximum in Malappuram followed by Kozhikode. As regards to Christian population it was maximum in Kottayam followed by Pathanamthitta.



CHAPTER - III

Measures of Fertility

3.1 Fertility Indicators

The most common measures of fertility are the crude birth rate, Age specific fertility rate, general fertility rate, total fertility rate and net reproduction rate. Estimates of these rates are presented in this Chapter.

Crude birth rate is defined as the number of live births per 1000 population (mid year). The births to the usual residents were only taken into account for the calculation of vital rates. The crude birth rate of Kerala estimated during the year under report was 18.08.

District wise crude birth rate displayed that Malappuram was the highest among the districts with 24.35 followed by Kasaragode with 23.09. However the lowest crude birth rate was in Alappuzha district having only 12.68.

Table – A

Crude Birth rate of Kerala and India (Rural) for the year 1986 to 1996.

Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
BR	22.6	21.5	19.9	20.2	19.6	18.4	17.6	17.5	17.2	18.1	18.1
BR(I)	34.2	33.7	33.1	32.2	31.7	30.9	30.9	30.4	30.5	30.0	29.3

3.2 Births rate of neighbouring States (1996)

The Birth rate of Kerala (Rural) and neighbouring States are presented below

State	Rural	Rural and Urban combined
Andhra Pradesh	23.5	22.8
Karnataka	24.2	23.0
Tamil Nadu	20.0	19.5
Kerala	18.0	18.0
All India	29.3	27.5

Kerala gives the lowest birth rate when compared to the neighbouring States. The birth rate in all States of India showed a decreasing trend than the previous year.

3.3 Distribution of Sample units under different rates

Table 7 represents districts wise live births observed in samples and estimated according to sex. Among these Malappuram has a maximum of 1086 live births where as Plalakkad has only 420 live births. The lowest live birth is in Wayanad ie. 149. Pathanamthitta has 150 live births and Alappuzha 159.

3.4 Age Specific Fertility rate

Age specific fertility rate can be defined as the number of live birth in an year to 1000 women of a specific age group. Table No.9 denotes the Age specific fertility rate for district and State level. Age specific fertility rate was highest in the age group of 20-24 with 151.85 followed by age group 25-29 with 122.62. District wise figure shows Age Specific Fertility Rate was highest in Malappuram with

196.31 at the age group of 20-24 a more Muslim belt populated district in the State. Also the same was highest in age group of 15-19 and 35-39 in Malappuram District.

3.5 Age Specific Marital Fertility Rate

Age Specific Marital Fertility Rate can be defined as the number of live births in an year to 1000 married women of specific age group. Table 9 B appended gives the Age Specific Marital Fertility Rate for the year 1996. The highest Marital Rate was recorded in the age group of 15-19.

3.6 Number of Surviving Children and Children ever born in different age group

The religion wise distribution of currently married women according to number of surviving children is given in Table 10 appended. It was seen that out of 4363 birth events 2123 numbers were initial birth and 1432 numbers were second birth.

3.7 General Fertility Rate (GFR)

The number of live births in an year to 1000 women in the reproductive age group 15-49 is defined as GFR. General Fertility Rate of the State was 62.57 during the year. District wise figures shows that it was highest in Malappuram and lowest in Alappuzha General Fertility rate from 1986 to 1996 in the State is as follows :-

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
81.0	77.4	71.5	72.2	69.8	64.8	61.6	61.2	60.0	62.87	62.57

3.8 Total Fertility Rate

Total fertility rate is defined as the average number of children that would be born to a woman during her life time, if she passes through the child bearing years conforming the age specific fertility rate of the year. Total fertility are denotes in Table No. 9A. The State level total fertility are was 1.84 during the year under report. The total fertility rate from 1986 to 1996 is stated below:

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
2.3	2.2	2.0	2.0	1.9	1.8	1.7	1.7	1.7	1.86	1.84

3.9 Gross Reproduction Rate

Gross Reproduction Rate is defined as 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 rate of the year. The gross reproduction rate of the State from 1986 to 1996 is stated below:

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1.1	1.1	1.0	0.95	0.92	0.92	0.82	0.83	0.80	0.90	0.89

3.10 Net Reproduction Rate (NRR)

Net Reproduction rate is the average number of Female Children that would be born to a woman during her lifetime, Conforming to the age group by corresponding proportion of survivors as per life table for female (L_x/l_x) and then repeating the process in the gross reproduction rate. Net reproduction at the state from 1986 to 1996 is presented below: -

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1.09	1.05	1.00	0.95	0.91	0.91	0.81	0.83	0.79	0.90	0.89

3.11 Still Birth Rate (SBR)

Still Birth Rate is defined as the number of still births to 1000 Births (Both still birth and live birth) Total number of still birth estimated during the year was 4495 in which the male and female classification were and 2457 and 2038 respectively. Still birth rate in the State during the year was 10.53.

3.12 Order of Birth by age of mother

Table 15 appended gives the percentage of distribution of births according to the age of mother. The birth order in the state is 46.48% of the total births covered in the first order and 32.97% in the second birth order. It is obvious that most of the women in Kerala delivered one or two children.

3.13 Birth by type of Medical Attendance received

Table 14 devotes the details of medical attention received by the women during the delivery period. Out of the 4363 events, 4230 numbers have received institutional medical attention i.e. 96.95% delivery was happened in the medical institutions. All the births in Thrissur and Kottayam districts were happened in the medical institutions. The live births observed in sample by type of medical attention at delivery percentage distribution of births by type of medical attention received for the period from 1986 to 1996 are furnished below: -

Year	Institutions	Trained Professional	Untrained professional	Non Professional	Not stated
1986	80.2	6.3	9.7	3.7	0.1
1987	82.5	7.7	9.2	0.6	-
1988	83.1	6.8	7.9	2.0	0.2
1989	86.0	5.6	6.8	1.5	0.1
1990	89.1	3.6	5.6	1.4	0.3
1991	91.1	2.7	4.9	1.2	0.1
1992	94.5	1.8	3.2	0.4	0.1
1993	96.9	1.6	0.9	0.5	0.1
1994	91.9	5.4	2.2	0.2	0.3
1995	96.28	2.6	1.1	0.02	0.0
1996	96.95	1.63	1.10	0.28	0.04

3.14 Sex ratio at birth

The number of male children born to 1000 female children is defined as the sex ratio at birth. Sex ratio at birth of the state from 1986 to 1996 is sated below: -

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
110.7	104.2	99.3	111.3	109.3	96.5	108.9	106.2	112.3	105.4	107.2

District wise figures shows that the same was highest in Alappuzha and lowest in Pathanamthita.

3.15 Child women Ratio (CWR)

Child women Ratio is defined as the estimated number of children in the age group (0-4) year per 1000 women in the reproductive age group (15-49). According to the survey results the child women ratio during the period was 305.5.

3.16 Comparison of Vital rates under SRS and CRS

The statutory system of recording the Birth and Death in the state is the Civil Registration System. The functions of CRS is not in a full fledged level due to the existence of under Registration System. Sample Registration provide cent percent reliability in data. The comparison of vital rates obtained through Civil Registration System and Sample Registration System has some variation usually the birh rate obtained through CRS was lower than that of Sample Registration System in the rural areas.

Year	Birth Rate		Still Birth Rate	
	CRS	SRS	CRS	SRS
1986	13.5	22.6	2.9	14.0
1987	13.2	21.5	2.9	11.1
1988	13.0	19.9	2.4	11.7
1989	12.6	20.2	3.4	10.6
1990	11.6	19.6	4.5	8.6
1991	10.8	18.4	3.7	6.2
1992	9.6	17.6	3.0	10.3
1993	9.4	17.5	3.0	7.6
1994	9.1	17.2	2.05	8.3
1995	9.41	18.10	3.85	6.17
1996	9.37	18.08	3.07	10.53

It is obvious that the birthrate and death rate estimated in SRS is always higher than that in CRS.

3.16 Rate of marriage per 1000 population and percentage distribution according to age and sex.

The rate of marriage's and remarriages per 1000 population and percentage distribution of marriages according to age and sex are given in Table 29 appended. During the year under report the rate of marriage at State level with male and female division was 19,45 and 21.36 respectively. Most of the marriage occurred at the age of 25 to 29 to the males and 20 to 24 to female. Usually the percentage of remarriage was very less in all age group.



CHAPTER – IV

Mortality Measures

4.1 Crude Death Rate

Crude Death Rate is defined as the number of deaths occurred per 1000 mid year population. The death rate is decreasing invariably in the State during the last few years due to the existence of good health system and high literacy rate. District wise figures shows that death rate was maximum in Pathanamthitta district with 7.95 followed by Ernakulam with 7.56 while the same was minimum in Idukki district with 4.81.

Table – 1 represent the death rate in the districts and state level.

4.2 Death rate of neighbouring State

The death rates in rural area and rural and urban combined provisionally for the year 1996 by the Registrar General of India in respect of the neighbouring States and All India are given below .

State	Rural	Rural – Urban combined
Andhra Pradesh	9.2	8.4
Karnataka	8.6	7.6
Tamil Nadu	8.7	8.0
Kerala	6.3	6.2
All India	9.7	9.0

4.3 Age specific death rate

Age specific death rate is defined as the number of deaths in a specific age group among 1000 persons of that age group in an year. Table 19 appended to this report gives the age specific death rates for different age group. For Age groups from 55 to 59 and above, the number of deaths was increasing continuously. District wise analysis present that maximum number of death estimated was in Malappuram district with 17120 followed by Thrissur District with 14046. The minimum number of death estimated was in Wayanad district with 4610.

4.4 Infant death rate

The infant death rate is defined as the estimated number of children below one year of age out of 1000 live birth in an year. Infant Mortality Rate in the State during 1996 was 18.06. Number of infant deaths estimated during the year under report was 7629 in which the males and females were 3752 and 3877 respectively.

District wise figure shows that infant deaths was estimated maximum in Malappuram with 1933 numbers of which the males and females were 1105 and 828 respectively.

4.5 Neo Natal Mortality Rate

Neo natal mortality rate is defined as the estimated number of deaths of infants below 28 days of age per 1000 live births in an year. Neo natal mortality rate estimated during the year under report was 13.42 in the State.

4.6 Perinatal mortality rate

Perinatal mortality rate defines as the estimated number of deaths of infants below 7 days of age per 1000 live births in an year. Estimated Perinatal mortality rate during the year was 9.39. The classification of infant mortality rate was perinatal, neo natal and post natal given in Table No. 6

4.7 Distribution of Samples according to death rate of each sample

Table 22 furnish the details regarding the extend of Sample wise death rate. In 54 samples, death rate was in between 5 and 7 and 43 samples were in the range of 7 and 9 out of 150 samples one sample is on the range between 13 And 15.

4.8 Medical attendance received before death

The percentage distribution of deaths according to type of medical attention received for the year 1986 to 1996 are stated below:

Year	Institutional	Qualified medical practitioner	Unqualified medical practitioner	None
1986	49	27	6	18
1987	47	28	7	18
1988	42	32	7	19
1989	43	31	6	20
1990	47	36	7	10
1991	45	35	5	15
1992	54	29	4	13
1993	58	21	4	17
1994	57	20	4	19
1995	51	32	6	11
1996	51	36	4	9

Table No.21 denotes the deaths classified by type of medical attention. Out of 1484 death events 757 numbers were occurred in institutions and 535 numbers by qualified medical practitioner.

4.9 Comparison of rural mortality rate under Civil Registration System and SRS for the year from 1986 to 1996

Following table represents the death rate and Infant Mortality rate noted in the Civil Registration System and Sample Registration System in the State. The major reason for the decrease of death rate in CRS than SRS may be because most of the events of the people were occurred in the urban area for obtaining modern medical facilities.

MORTALITY RATE UNDER CRS AND SRS

Year	Birth Rate		Infant mortality Rate	
	CRS	SRS	CRS	SRS
1986	3.9	6.0	8.0	28.6
1987	4.0	6.1	8.2	27.0
1988	4.1	6.3	7.3	29.9
1989	4.2	6.1	8.2	23.3
1990	4.1	6.0	8.1	17.1
1991	4.3	6.2	7.5	16.6
1992	4.5	6.3	5.2	17.0
1993	4.3	6.1	5.8	14.8
1994	4.3	5.9	7.1	16.0
1995	4.2	5.4	6.5	14.4
1996	4.3	6.2	5.8	13.0

(CRS relating to rural only) Infant mortality rate is in a decreasing trend in the State.

4.9 Expectation of life based on age specific death rates for the last three years.

Generally the life expectancy of the people is very high in Kerala among the states in India. The life tables are prepared sexwise and population wise separately, based on the age specific death rates for the years 1994, 1995 and 1996. The expectation of life at birth for males, females and both sex together were calculated as 70.4, 76.8 and 73.5. The life expectancy of females are higher than that of males. The following table provide the life expectancy of rural people during the last 10 years.

Expectation of life based on age specific death rates 1986-'96

Age specific death rates for the year			Male	Female	Both Sex
1985	1986	1987	67.1	73.1	70.1
1986	1987	1988	67.0	73.5	70.2
1987	1988	1989	67.6	73.9	70.6
1988	1989	1990	67.9	74.7	71.7
1989	1990	1991	68.1	74.7	71.3
1990	1991	1992	67.9	74.8	71.2
1991	1992	1993	68.3	75.2	71.6
1992	1993	1994	64.3	75.2	67.5
1993	1994	1995	70.2	76.6	73.3
1994	1995	1996	70.4	76.8	73.5

Method adopted for calculation of Life Table

$$m_x = \frac{\text{Total age specific death rates for the last three years}}{3 \times 1000}$$

$$q_0 = \frac{D_1}{B_1} + \frac{D_2}{B_2}$$

Where D_1 is the number of deaths of children born during 1995 and died in 1996. D_2 is that of the children born and died in 1996. B_1 and B_2 denote the total number of births occurred during 1995 and 1996 respectively.

$$Q_x = \frac{2 \times (c \times m_x)}{2 + (c \times m_x)} \quad \text{Where } c \text{ is the class interval}$$

Let l_0 be 1,00,000

$$l_x = l_0 - d_0$$

$$d_x = l_x \times q_x$$

Let $d_{70} = l_{70}$

$$L_0 = f \times l_0 + (1 - f) l_1$$

where $f =$

$$\frac{D_1}{D_1 + D_2}$$

$$L_x = \frac{(l_x + l_{x+1}) \times c}{2}$$

$$L_{70} = \frac{D_{70}}{m_{x70}}$$

Let L_{70} be T_{70}

$$T_{(70-1)} = T_{70} + L_{(70-1)}$$

$$\text{Expectation of Life} = E_x = \frac{T_x}{l_x}$$

Table -I Midyear estimated population, Births, Deaths and Vital rates 1996

District	Popu- lation	Estimated figures				Vital Rates			
		Births	Death	Still Births	Infant Death	Birth	Death	Still Birth	Infant Death
Kasaragod	1030917	23805	7751	461	646	23.09	7.52	19.00	27.14
Kannur	1210407	25720	7461	491	295	21.25	6.16	18.73	11.47
Wayanad	775361	13477	4613	452	362	17.38	5.95	32.45	26.86
Kozhikode	1781974	30037	11340	0	409	16.86	6.36	0.00	13.62
Malappuram	3078425	74974	17121	759	1933	24.35	5.56	10.02	25.78
Palakkad	2154734	40060	12972	668	858	18.59	6.02	16.40	21.42
Thrissur	2095663	32151	14046	219	329	15.34	6.70	6.77	10.23
Eranakulam	1632275	28907	12334	0	385	17.71	7.56	0.00	13.32
Idukki	1098601	19176	5286	415	104	17.45	4.81	21.18	5.42
Kottayam	1624984	28478	11275	465	814	17.53	6.94	16.07	28.58
Alappuzha	1523707	19323	11059	0	0	12.68	7.26	0.00	0.00
Pathanamthitta	1099148	17702	8733	236	118	16.11	7.95	13.16	6.67
Kollam	2117815	31212	12687	225	337	14.74	5.99	7.16	10.80
Thiruvananthapuram	2136550	37337	13312	104	1040	17.48	6.23	2.78	27.85
State	23360561	422359	149990	4495	7630	18.08	6.42	10.53	18.07

Table 2 - Sample Population and Estimated Population – District wise

Code	Districts	Observed Population		Estimated Population	
		As on 01-Jul-96	As on 01-Jan-97	As on 01-Jul-96	As on 01-Jan-97on
101	Kasaragod	11173	11206	1030917	1033962
102	Kannur	12330	12514	1210407	1228470
103	Wayanad	8572	8638	775361	781330
104	Kozhikode	17442	19117	1781974	1953101
105	Malappuram	44591	44759	3078425	3090024
106	Palakkad	22591	22446	2154734	2140904
107	Thrissur	19098	19181	2095663	2104771
108	Eranakulam	12705	12679	1632275	1628935
109	Idukki	10599	10828	1098601	1122337
110	Kottayam	13980	14071	1624984	1635562
111	Alappuzha	12538	12714	1523707	1545096
112	Pathanamthitta	9314	9400	1099148	1109297
113	Kollam	18863	18908	2117815	2122867
114	Thiruvananthapuram	20543	19042	2136550	1980440
	State	234339	235503	23360561	23477096

Table 3 - Population according to Sex 1996

Code	Districts	Observed population			Estimated population		
		Male	Female	Total	Male	Female	Total
101	Kasargod	5421	5752	11173	500188	530729	1030917
102	Kannur	5919	6411	12330	581054	629353	1210407
103	Wayanad	4223	4349	8572	381982	393379	775361
104	Kozhikode	8535	8907	17442	871984	909990	1781974
105	Malappuram	21735	22856	44591	1500517	1577908	3078425
106	Palakkad	10847	11744	22591	1034589	1120145	2154734
107	Thrissur	9043	10055	19098	992307	1103356	2095663
108	Ernakulam	6363	6342	12705	817486	814789	1632275
109	Idukki	5278	5321	10599	547072	551529	1098601
110	Kottayam	6961	7019	13980	809121	815863	1624984
111	Alappuzha	6053	6485	12538	735604	788103	1523707
112	Pathanamthitta	4443	4871	9314	524320	574828	1099148
113	Kollam	9211	9652	18863	1034151	1083661	2117815
114	Thiruvananthapuram	9925	10618	20543	1032238	1104312	2136550
	State	113957	120382	234339	11362613	11997948	23360561

Table 4 - Midyear Sample Population and estimated population according to Age and Sex 1996

Age group	Observed			Estimated Population		
	Male	Female	Total	Male	Female	Total
Below 1	2209	2143	4352	216457	210047	426504
1-4	8637	8189	16826	839246	796782	1636028
5-9	11468	10522	21990	1109640	1018346	2127986
10-14	12699	12190	24889	1236647	1187310	2423957
15-19	11988	12804	24792	1175896	1250313	2426209
20-24	10744	12081	22825	1068534	1203246	2271780
25-29	9749	11899	21648	982061	1194442	2176503
30-34	8113	8869	16982	821786	890463	1712249
35-39	7973	9217	17190	807043	928613	1735656
40-44	6475	6489	12964	658154	656870	1315024
45-49	6135	6154	12289	623090	626392	1249482
50-54	4099	4316	8415	416849	437937	854786
55-59	3913	4294	8207	400668	438962	839630
60-64	3370	3692	7062	343895	377230	721125
65-69	2721	3156	5877	280608	325890	606498
70-74	1712	1930	3642	178032	199462	377494
75-79	1020	1275	2295	106101	133609	239710
80-84	575	679	1254	60365	71434	131799
85+	351	489	840	36868	51273	88141
Total	113951	120388	234339	11361940	11998621	23360561

Table 5 - Sex Ratio and percentage distribution of population by age group – 1994, 1995 & 1996

Fl	Age group	1994		95		SexRatio 96	%Populat ion
1	0 to 4	947	9.88	952	8.50	953	9.04
3	5 - 9	984	9.70	931	9.20	918	9.38
4	10 - 14	980	9.79	967	10.60	960	10.62
5	15 - 19	1006	10.19	1078	10.40	1068	10.58
6	20 - 24	1194	10.52	1105	9.90	1124	9.74
7	25 - 29	1178	9.32	1212	9.00	1221	9.24
8	30 - 34	1123	7.63	1075	7.40	1093	7.25
9	35 - 39	1107	6.71	1154	7.40	1156	7.34
10	40 - 44	1084	5.57	984	5.50	1002	5.53
11	45 - 49	1104	4.66	1011	5.40	1003	5.24
13	50 - 54	1065	3.88	1040	3.70	1053	3.59
14	55 - 59	1177	3.47	1070	3.50	1097	3.50
15	60 - 64	1120	2.90	1077	3.20	1096	3.01
16	65 - 69	1158	2.24	1137	2.60	1160	2.51
18	70 and Above	1261	3.54	1175	3.70	1195	3.43
	Total	1076	100	1053	100	1056	100.00

Note: Calculation Based on Observed population

Table 6 - Religion wise Population -Sample and Estimated population for each District

District	Sample				Estimated			
	Hindu	Christian	Muslim	Total	Hindu	Christian	Muslim	Total
Kasaragod	6722	456	3995	11173	620229	42075	368613	1030917
Kannur	5076	2646	4608	12330	498299	259752	452356	1210407
Wayanad	4836	1567	2169	8572	437429	141740	196192	775361
Kozhikode	11194	297	5951	17442	1143643	30343	607988	1781974
Malappu-ram	14563	614	29414	44591	1005385	42388	2030652	3078425
Palakkad	15591	952	6048	22591	1487073	90801	576860	2154734
Thrissur	13543	2907	2648	19098	1486101	318991	290571	2095663
Eranakulam	5627	3914	3164	12705	722929	502851	406495	1632275
Idukki	5091	4391	1117	10599	527689	455133	115779	1098601
Kottayam	7122	6005	853	13980	827835	697999	99150	1624984
Alappuzha	8163	4053	322	12538	992026	492549	39132	1523707
Pathanam-thitta	4392	4742	180	9314	518301	559605	21242	1099148
Kollam	13932	1796	3135	18863	1564194	201644	351977	2117815
Thiruvanan-thapuram	15184	3697	1662	20543	1579193	384503	172854	2136550
State	131036	38037	65266	234339	13410326	4220374	5729861	23360561

Table 7 - District wise live Births Observed in Samples and Estimated According to sex

	District	Observed Samples				Estimated		
		Male	Female	Total	Sex Ratio	Male	Female	Total
101	Kasaragod	137	121	258	113.22	12641	11164	23805
102	Kannur	129	133	262	96.99	12664	13056	25720
104	Kozhikode	161	133	294	121.05	16449	13588	30037
103	Wayanad	70	79	149	88.61	6332	7145	13477
105	Malappuram	565	521	1086	108.45	39006	35968	74974
106	Palakkad	218	202	420	107.92	20793	19267	40060
107	Thrissur	165	128	293	128.91	18106	14045	32151
108	Eranakulam	110	115	225	95.65	14132	14775	28907
109	Idukki	92	93	185	98.92	9536	9640	19176
110	Kottayam	137	108	245	126.85	15924	12554	28478
111	Alappuzha	91	68	159	133.82	11059	8264	19323
112	Pathanamthitta	63	87	150	72.41	7435	10267	17702
113	Kollam	137	141	278	97.16	15381	15831	31212
114	Thiruvananthapuram	183	176	359	103.98	19033	18304	37337
	Total	2258	2105	4363	107.27	218491	203868	422359

Table 8A - Estimated number of Total Women in different age Group

Dist code	Age Group of Women							Total
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	
101	63112	57022	49364	36446	38476	23805	26112	294337
102	75785	59097	56054	41623	48004	28371	31021	339955
104	96546	88884	99918	62423	75194	43114	49857	515936
103	47126	43689	43056	29216	31658	19628	17729	232102
105	199310	156576	142423	110597	107836	76217	62133	855092
106	124757	114647	108543	77353	74778	54748	56084	610910
107	97991	107098	112036	82848	86688	63645	62108	612414
108	80554	87363	86464	66550	69248	48435	43939	482553
109	58667	60429	61776	42705	49131	35138	33376	341222
110	69161	77762	81365	66255	64744	50214	44286	453787
111	74131	75833	82638	59427	64531	49826	44722	451108
112	48738	47912	51689	43310	47558	35285	38589	313081
113	111263	115754	108456	83307	80388	66354	60066	625588
114	103172	111180	110660	88403	90379	62090	56370	622254
	1250313	1203246	1194442	890463	928613	656870	626392	6750339

Table 8B – Estimated number of Married Women in different age Group

Dist code	Age Group of Women							
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
101	10980	34970	36631	31002	31371	19284	19469	183707
102	11191	38187	50262	37991	42114	23462	24051	227258
104	16244	63241	90825	54863	68655	34634	39129	367591
103	6060	26593	37267	25779	28131	16915	13025	153770
105	53089	113842	119917	96168	92509	61926	47497	584948
106	21174	69628	89180	65717	65240	44066	43398	398403
107	2634	62876	94260	75935	78239	55195	51464	420603
108	2056	32633	70533	61411	63210	44067	37258	311168
109	3213	26535	49545	39284	43845	31510	27571	221503
110	1744	35685	68812	61605	59513	45913	38590	311862
111	243	27587	65382	55538	58698	44357	38403	290208
112	708	19000	46968	40714	44136	32807	33279	217612
113	4266	58045	91952	74999	72753	56474	50523	409012
114	3952	59386	92043	79875	79459	53250	45138	413103
	137554	668208	1003577	800881	827873	563860	508795	4510748

Table 8C - Estimated number of Live Births in different age Group

Dist code	Age Group of Women							
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
101	2676	9688	7843	2583	738	185	92	23805
102	2553	10700	8541	3043	687	196	0	25720
104	2759	16244	8684	1839	307	204	0	30037
103	1357	6241	4432	1266	181	0	0	13477
105	12703	30721	20090	8284	2485	552	138	74974
106	5437	17836	11541	4101	1145	0	0	40060
107	768	14594	12290	3621	768	110	0	32151
108	642	10535	11563	5139	1028	0	0	28907
109	1037	7152	7878	2280	829	0	0	19176
110	1046	9299	12322	4417	1279	0	116	28478
111	243	7292	8385	2917	365	121	0	19323
112	118	6963	7435	2950	236	0	0	17702
113	1123	16729	11003	1796	561	0	0	31212
114	936	18721	14456	2600	520	104	0	37337
State total	33398	182716	146462	46836	11129	1472	346	422359
State(Female live birth)	16772	89281	69884	21458	5571	741	161	203868

Table 9 A - Age Specific Fertility Rate

District	Age Group							GFR	TFR
	15-19	20-24	25-29	30-34	35-39	40-44	45-49		
Kasaragod	42.40	169.90	158.88	70.90	19.18	7.77	3.52	80.88	2.36
Kannur	33.67	181.06	152.37	73.11	14.31	6.91	0.00	75.66	2.31
Kozhikode	28.57	182.76	86.91	29.46	4.07	4.73	0.00	58.22	1.68
Wayanad	28.80	142.85	102.94	43.33	5.72	0.00	0.00	58.07	1.62
Malappuram	63.73	196.21	141.06	74.90	23.04	7.24	2.22	87.68	2.54
Palakkad	43.58	155.57	106.33	53.02	15.31	0.00	0.00	65.57	1.87
Thrissur	7.84	136.27	109.70	43.71	8.86	1.73	0.00	52.50	1.54
Eranakulam	7.97	120.59	133.73	77.22	14.85	0.00	0.00	59.90	1.77
Idukki	17.68	118.35	127.53	53.39	16.87	0.00	0.00	56.20	1.67
Kottayam	15.12	119.58	151.43	66.67	19.75	0.00	2.62	62.76	1.88
Alappuzha	3.28	96.16	101.47	49.09	5.66	2.45	0.00	42.83	1.29
Pathanamthitta	2.42	145.33	143.84	68.11	4.96	0.00	0.00	56.54	1.82
Kollam	10.09	144.52	101.45	21.56	6.98	0.00	0.00	49.89	1.42
Thiruvananthapuram	9.07	168.38	130.64	29.41	5.75	1.67	0.00	60.00	1.72
State (births)	26.71	151.85	122.62	52.60	11.98	2.24	0.55	62.57	1.84
Female births*	13.41	74.20	58.51	24.10	6.00	1.13	0.26	30.20	0.89

Table 9B – Age Specific Marital Fertility Rate (Age group)

code	District	15-19	20-24	25-29	30-34	35-39	40-44	45-49
101	Kasaragod	244	277	214	83	24	10	5
102	Kannur	228	280	170	80	16	8	0
104	Kozhikode	170	257	96	34	4	6	0
103	Wayanad	224	235	119	49	6	0	0
105	Malappuram	239	270	168	86	27	9	3
106	Palakkad	257	256	129	62	18	0	0
107	Thrissur	292	232	130	48	10	2	0
108	Eranakulam	312	323	164	84	16	0	0
109	Idukki	323	270	159	58	19	0	0
110	Kottayam	600	261	179	72	21	0	3
111	Alappuzha	1000	264	128	53	6	3	0
112	Pathanamthitta	167	366	158	72	5	0	0
113	Kollam	263	288	120	24	8	0	0
114	Thiruvananthapuram	237	315	157	33	7	2	0
	State	243	273	146	59	13	3	1

Table 10 - Distribution of Currently married women observed according to number of Surviving Children 1996

Age of mother	1	2	3	4	5	6	7 and above	Total
15-19	390	25	-	-	-	-	-	415
20-24	1158	621	123	15	-	-	-	1917
25-29	536	542	268	74	10	4	1	1435
30-34	98	165	99	52	34	16	10	474
35-39	11	32	32	16	4	1	7	103
40-44	2	-	2	4	2	2	5	17
45-49	-	-	-	-	-	1	1	2
Total	2195	1385	524	161	50	24	24	4363

Table 11 - Distribution of Currently married women observed in samples according to age and children ever born 1996

Age of mother	1	2	3	4	5	6	7 & above	Total
15-19	379	36	-	-	-	-	-	415
20-24	1133	637	130	17	-	-	-	1917
25-29	514	556	272	77	10	4	2	1435
30-34	84	171	103	54	36	16	10	474
35-39	11	32	32	16	4	1	7	103
40-44	2	-	2	4	2	2	5	17
45-49	-	-	-	-	-	1	1	2
Total	2123	1432	539	168	52	24	25	4363

Table 12 - Distribution of Currently married women observed in samples according to age of mother and Age of last child 1996

Age of mother	0-14	15-29	30-44	45-59	60-74	75-89	90-104	105-119	120-134	Total
15-19	390	23	1	1	-	-	-	-	-	415
20-24	1159	405	201	96	56	-	-	-	-	1917
25-29	567	248	230	183	135	35	21	7	9	1435
30-34	98	60	73	75	73	35	38	10	12	474
35-39	15	20	15	8	21	6	4	6	8	103
40-44	3	2	2	2	2	2	2	-	2	17
45-49	-	-	-	-	-	-	-	1	1	2
Total	2232	758	522	365	287	78	65	24	32	4363

**Table 13 - Live Birth Observed in Samples classified by month of Occurrence
1996**

	District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
101	Kasaragod	19	21	16	26	21	21	18	22	18	25	28	23	258
102	Kannur	17	26	19	35	29	20	19	20	23	20	20	14	262
103	Wayanad	11	24	20	10	9	12	12	13	2	9	15	12	149
104	Kozhikode	19	21	23	31	26	15	31	27	27	25	23	26	294
105	Malappuram	98	86	100	109	89	86	92	87	84	86	91	78	1086
106	Palakkad	33	37	37	35	42	32	34	23	37	39	43	28	420
107	Thrissur	19	20	26	29	34	23	22	24	28	16	26	26	293
108	Eranakulam	22	20	20	19	22	18	13	24	20	15	14	18	225
109	Idukki	18	12	12	11	20	13	13	24	14	12	12	24	185
110	Kottayam	16	16	16	30	20	22	27	13	18	16	21	30	245
111	Alappuzha	12	20	12	18	14	13	9	19	16	9	8	9	159
112	Pathanamthitta	15	10	6	7	14	12	11	7	21	19	21	7	150
113	Kollam	22	29	15	22	22	19	27	28	24	23	26	21	278
114	Thiruvananthapuram	34	23	26	32	21	35	24	30	35	32	28	39	359
	Total	355	365	348	414	383	341	352	361	367	346	376	355	4363

Table 14 - Live Birth Observed in samples by type of Medical Attention

	District	Instituti onal	Trained Profe- ssional	UnTrained Profe- ssional	Non Profes- sional	Not Stated	Total
101	Kasaragod	227	11	11	9		258
102	Kannur	260	1		1		262
103	Wayanad	145	1	3			149
104	Kozhikode	292	1	1			294
105	Malappuram	1021	38	26		1	1086
106	Palakkad	415	3	1	1		420
107	Thrissur	293					293
108	Eranakulam	219	4	1	1		225
109	Idukki	176	4	4		1	185
110	Kottayam	244		1			245
111	Alappuzha	158	1				159
112	Pathanamthitta	148	2				150
113	Kollam	274	4				278
114	Thiruvananthapuram	358	1				359
	Total	4230	71	48	12	2	4363

Table 15 – Distribution of Birth by age of mother and order of birth of child

District	Not stated		1		2		3		4	
	15 To 19	6	1.50	353	88.03	41	10.22	1	0.25	
20 To 24	32	1.67	1139	59.35	598	31.16	131	6.83	18	0.94
25 To 29	23	1.53	481	32.09	604	40.29	280	18.68	81	5.40
30 To 34	5	1.04	78	16.15	193	39.96	94	19.46	60	12.42
35 To 39	1	0.84	12	10.08	29	24.37	33	27.73	21	17.65
40 To 44	1	5.56	1	5.56	3	16.67	4	22.22	3	16.67
45 and above	1	25.00	1	25.00	2	50.00				
Total	69	1.55	2065	46.48	1465	32.97	542	12.20	184	4.14

District	5		6		7 and above		Total
15 To 19							401
20 To 24	1	0.05					1919
25 To 29	20	1.33	9	0.60	1	0.07	1499
30 To 34	31	6.42	14	2.90	8	1.66	483
35 To 39	6	5.04	7	5.88	10	8.40	119
40 To 44	6	33.33					18
45 and above							4
Total	57	1.28	33	0.74	28	0.63	4443

Table 16 - Percentage Distribution of Samples according to birthrate

Age Group	101	102	103	104	105	106	107	108	109	110	111	112	113	114	Total
Less than 12				2		1	1				4	1	2	1	
%				18.18		8.67	7.69				50.00	16.67	16.67	7.69	12
12 & Less than 16			1	4		1	6	2	3	3	3	3	6	3	
%			20.00	36.36		6.67	46.15	25.00	42.86	33.33	37.50	50.00	50.00	23.08	35
16 & Less than 20	2	5	4	2	6	9	5	5	3	4			4	7	
%	28.57	62.50	80.00	18.18	21.43	60.00	38.46	62.50	42.86	44.44			33.33	53.85	56
20 & Less than 24	3	2		2	6	2	1	1		2	1	2		2	
%	42.86	25.00		18.18	21.43	13.33	7.69	12.50		22.22	12.50	33.33		15.38	24
24 & Less than 28	1				11	2			1						
%	14.29				39.29	13.33			14.29						15
28 & Less than 32				1	3										
%				9.09	10.71										4
32 & Less than 36	1	1													
%	14.29	12.50													2
36 & Less than 40					1										
%					3.57										1
40 & Less than 44					1										
%					3.57										1
Total	7	8	5	11	28	15	13	8	7	9	8	6	12	13	150

Table 17-Distribution of Still birth observed in samples and estimated according to sex

	District	Still Birth Observed			Still Birth Estimated			ELB+ESB	SIB Rate
		Male	Female	Total	Male	Female	Total		
101	Kasargod	2	3	5	184	277	461	24266	19.00
102	Kannur	2	3	5	196	295	491	26211	18.73
103	Wayanad	3	2	5	271	181	452	13929	32.45
104	Kozhikode	0						30037	0.00
105	Malappuram	5	6	11	345	414	759	75733	10.02
106	Palakkad	6	1	7	572	96	668	40728	16.38
107	Thrissur	1	1	2	110	109	219	32370	6.80
108	Ernakulam	0						28907	0.00
109	Idukki	2	2	4	208	207	415	19591	21.13
110	Kottayam	3	1	4	349	116	465	28943	16.07
111	Alappuzha	0						19323	0.00
112	Pathanamthitta	1	1	2	118	118	236	17938	13.16
113	Kollam	2	2			225	225	31437	7.16
114	Thiruvananthapuram	1	1	104			104	37441	2.78
	Total	26	22	48	2457	2038	4495	426854	10.53

Table 18 - District wise Deaths observed in samples and estimated according to sex

Name of District	Death observed in samples			Estimated number of deaths		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
Kasaragod	54	30	84	4983	2768	7751
Kannur	42	34	76	4123	3338	7461
Wayanad	34	17	51	3075	1538	4613
Kozhikode	66	45	111	6743	4597	11340
Malappuram	141	107	248	7058	7387	17121
Palakkad	74	62	136	8449	5914	12972
Thrissur	77	51	128	6681	5597	14046
Eranakulam	52	44	96	2280	5653	12334
Idukki	22	29	51	6858	3006	5286
Kottayam	59	38	97	6684	4417	11275
Alappuzha	55	36	91	5901	4375	11059
Pathanamthitta	50	24	74	7971	2832	8733
Kollam	71	42	113	7384	4716	12687
Thiruvananthapuram	71	57	128	7384	5928	13312
State	868	616	1484	87924	62066	149990

Table 18A - Distribution of Death Observed in Samples according to Age and Sex

District	All Group	Below1	1 - 4	5 - 9	10 -14	15 -19	20 -24	25 -29	30 -34	35 -30	40-44	45-49	50-54	55-59	60 -64	65-69	>=70
Kasargod	Male	4	1			1	1		2	2	4	2	2	2	5	10	18
	Female	3	1			1		2	2	1	3	3			7	1	6
	Total	7	2			2			4	3	7	5			12	11	24
Kannur	Male	1				1		1			3	2	3	2	1	7	21
	Female	2				1		1	1				3	4	3	4	16
	Total	3				2		2					6	6	4	11	37
Wayanad	Male	2				1	2			3	1		2	3	4	5	11
	Female	2		1		1							1	1	2	1	8
	Total	4		2		2							3	4	6	6	18
Kozhikode	Male	1		1	1	1	1	2			1	2	1	8	8	6	34
	Female	3		1		1		1	1			1		3	4	7	24
	Total	4		2		2		3			3	3		11	12	13	58
Malappuram	Male	16	2	3	2	2	2	4		4	5	8	5	16	14	10	48
	Female	12		1	1	1	2	1	1	3	3	4		2	9	15	52
	Total	28		4	3	3	4	5		7	8	12		18	23	25	100
Palakkad	Male	5	1	1				1	1	1	2	2	3	3	8	8	38
	Female	4		1		1				1	2	3	3	3	9	8	27
	Total	9		2						2	4	5	6	6	17	16	65
Thrissur	Male	2	1				1	1		1	4	2	1	5	11	10	38
	Female	1										2	3	3	4	5	33
	Total	3										4	4	9	15	15	81
Ernakulam	Male					1		2		1		2	5	5	4	10	22
	Female	3		1	1						1			1	7	3	25
	Total	96										4		6	11	13	47

(Table 18A contd.)

District	All Group	Below 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70
Idukki	Male	1				1		3	2	1	2			4	3		8
	Female				1	1			1			2			3	3	13
	Total				2				3						6		21
Kottayam	Male	4	1	1			1	2	1		1	5	3	5	2	7	26
	Female	3			1	1			1			1	2	4	1	2	22
	Total	7										6	5	9	3	9	48
Alappuzha	Male				1		1		3	1	1	3	1	4	4	7	28
	Female						1			2	1	2		2		4	24
	Total						2			3	2	5		6		11	52
Pathanamthitta	Male				2		2		2	2		2	1		8	5	28
	Female	1	2												2	3	16
	Total	1	2												10	8	44
Kollam	Male	1				1	3	2	1	3	5	3	1	4	12	7	28
	Female	2								1		1		2	4	2	30
	Total	3								4		4		6	16	9	58
Thiruvananthapuram	Male	5	2	3			6	3	2	1	2	3	2	3	9	9	21
	Female	5	1	1	1	1	1		2	2	3	3	2	1	4	5	25
	Total	10	3	4			7		4	3	5	6	4	4	13	14	46
State	Male	42	8	10	3	3	20	18	14	20	31	36	30	64	93	101	369
	Female	41	4	6	3	3	6	8	8	11	13	24	16	26	59	63	321
	Total	83	12	16	6	6	26	26	22	31	44	60	46	90	152	164	690

Table 18 B – Distribution of Death Estimated in Samples according to Age and Sex

District	All Group	Below 1	1-4	5-9	10-	15-	20-24	25-	30-	35-	40-	45-	50-	55-	60-64	65-	>=70
Kasargod	Male	4984	369	92	0	0	92	0	185	185	369	185	185	185	461	923	1661
	Female	2769	277	92	0	0	92	0	185	92	277	277	0	0	646	92	554
	Total	7753	646	184	0	0	184	92	370	277	646	462	185	185	1107	1015	2215
Kannur	Male	4123	98	0	0	0	98	0	98	0	0	0	295	196	98	687	2062
	Female	3339	196	0	0	0	0	98	98	0	0	0	295	393	295	393	1571
	Total	7462	294	0	0	0	98	0	196	98	0	0	590	589	393	1080	3633
Wayanad	Male	3074	181	0	0	0	181	0	0	271	90	0	181	271	362	452	995
	Female	1536	181	0	90	0	0	0	0	0	0	0	90	90	181	90	724
	Total	4610	362	0	90	0	181	0	0	271	90	0	271	361	543	542	1719
Kozhikode	Male	6741	102	0	102	0	102	204	0	0	102	204	102	817	817	613	3474
	Female	4596	306	0	102	0	0	102	102	0	0	102	0	306	409	715	2452
	Total	11337	408	0	204	0	102	306	102	0	102	306	102	1123	1226	1328	5926
Malappuram	Male	9734	1105	138	207	138	138	276	0	276	345	552	345	1105	967	690	3314
	Female	7386	828	0	69	69	138	69	69	207	207	276	0	138	621	1036	3590
	Total	17120	1933	138	276	207	276	345	69	483	552	828	345	1243	1588	1726	6904
Palakkad	Male	7056	477	95	95	0	0	95	95	95	191	191	286	286	763	763	3624
	Female	5912	382	0	95	0	0	0	0	95	191	286	286	286	858	763	2575
	Total	12968	859	95	190	0	0	95	95	190	382	477	572	572	1621	1526	6199
Thrissur	Male	8450	219	110	0	0	110	110	0	110	439	219	110	549	1207	1097	4170
	Female	5596	110	0	0	0	0	0	0	0	0	219	329	329	439	549	3621
	Total	14046	329	110	0	0	110	110	0	110	439	438	439	878	1646	1646	7791
Ernakulam	Male	6679	0	0	0	0	0	257	0	128	0	257	642	642	514	1285	2826
	Female	5650	385	0	128	0	128	0	0	128	128	257	0	128	899	385	3212
	Total	12329	385	0	128	0	128	257	0	128	128	514	642	770	1413	1670	6038

(Table 18 B contd)

District	All Group		Below 1	1-4	5-9	10-	15-	20-24	25-	30-	35-	40-	45-	50-	55-	60-64	65-	>=70
	Male	Female																
Idukki	Male	2281	104	0	0	0	104	0	0	207	104	207	0	0	415	311	0	829
	Female	3006	0	0	0	0	104	104	311	104	0	0	207	207	0	311	311	1347
	Total	5287	104	0	0	0	208	104	311	311	104	207	207	207	415	622	311	2176
Kottayam	Male	6856	465	116	116	0	116	0	0	116	0	116	581	349	581	232	814	3022
	Female	4415	349	0	0	116	116	116	232	116	116	116	697	232	465	116	232	2557
	Total	11271	814	116	116	116	232	116	116	116	116	116	122	581	1046	348	1046	5579
Alappuzha	Male	6688	0	0	122	122	0	122	0	365	122	122	365	122	486	486	851	3403
	Female	4376	0	0	0	0	0	122	0	0	243	122	243	0	243	0	486	2917
	Total	11064	0	0	122	122	0	244	0	365	365	244	608	122	729	486	1337	6320
Pathanamthitta	Male	5900	0	0	0	0	0	236	0	236	236	0	236	118	0	944	590	3304
	Female	2832	118	236	0	0	0	0	0	0	0	0	0	0	0	236	354	1888
	Total	8732	118	236	0	0	0	236	0	236	236	0	236	118	0	1180	944	5192
Kollam	Male	7971	112	0	0	0	112	337	225	112	337	561	337	112	449	1347	786	3144
	Female	4716	225	0	0	0	0	0	0	0	112	0	112	0	225	449	225	3368
	Total	12687	337	0	0	0	112	337	225	112	449	561	449	112	674	1796	1011	6512
Thiruvananthapuram	Male	7384	520	208	312	0	0	624	312	208	104	208	312	208	312	936	936	2184
	Female	5928	520	104	104	104	104	104	0	208	208	312	312	208	104	416	520	2600
	Total	13312	1040	312	416	104	104	728	312	416	312	520	624	416	416	1352	1456	4784
State	Male	87921	3752	759	954	260	864	2058	1809	1524	1968	3045	3635	3055	6294	9445	10487	38012
	Female	62057	3877	432	588	289	670	596	765	766	1073	1237	2407	1647	2707	5876	6151	32976
	Total	149978	7629	1191	1542	549	1534	2654	2574	2290	3041	4282	6042	4702	9001	15321	16638	70988

Table 19 - Age Specific Death Rate of State

Age Group	Deaths			Population			Age Specific DeathRate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	Below1	3752	3877	7629	216457	210047	426504	17.33	18.46
1-4	759	432	1191	839246	796782	1636028	0.90	0.54	0.73
5-9	954	588	1542	1109640	1018346	2127986	0.86	0.58	0.72
10-14	260	289	549	1236647	1187310	2423957	0.21	0.24	0.23
15-19	864	670	1534	1175896	1250313	2426209	0.73	0.54	0.63
20-24	2058	596	2654	1068534	1203246	2271780	1.93	0.50	1.17
25-29	1809	765	2574	982061	1194442	2176503	1.84	0.64	1.18
30-34	1524	766	2290	821786	890463	1712249	1.85	0.86	1.34
35-39	1968	1073	3041	807043	928613	1735656	2.44	1.16	1.75
40-44	3045	1237	4282	658154	656870	1315023	4.63	1.88	3.26
45-49	3635	2407	6042	623090	626392	1249482	5.83	3.84	4.84
50-54	3055	1647	4702	416849	437937	854786	7.33	3.76	5.50
55-59	6294	2707	9001	400668	438962	839630	15.71	6.17	10.72
60-64	9445	5876	15321	343895	377230	721125	27.46	15.58	21.25
65-69	10487	6151	16638	280608	325890	606498	37.37	18.87	27.43
Above70	38012	32976	70988	381365	455778	837144	99.67	72.35	84.80

Table 20 - Distribution of Death observed in Samples classified by month of Occurrence

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
101 Kasargod	7	6	7	7	7	7	8	6	3	5	13	8	84
102 Kannur	4	3	7	8	6	7	10	6	8	8	6	3	76
103 Wayanad	3	1	8	1	5	2	7	3	5	3	8	5	51
104 Kozhikode	11	9	13	5	13	10	4	5	8	13	10	10	111
105 Malappu-ram	21	16	15	17	19	17	22	31	23	25	21	21	248
106 Palakkad	10	12	9	10	13	15	11	11	10	16	8	11	136
107 Thrissur	8	11	9	13	11	8	16	7	10	9	12	14	128
108 Ernakulam	7	7	5	8	6	8	5	8	6	11	15	10	96
109 Idukki	2	7	7	8	2	3	2	5	5	4	2	4	51
110 Kottayam	6	8	5	8	10	9	10	10	9	9	4	9	97
111 Alappuzha	4	12	9	5	12	10	2	8	6	7	4	12	91
112 Pathanamthitta	6	11	5	7	5	5	5	4	3	10	5	8	74
113 Kollam	11	8	8	8	13	13	12	8	12	11	4	5	113
114 Thiruvananthapuram	12	4	22	14	8	16	8	11	10	8	7	8	128
Total	112	115	129	119	130	130	122	123	118	139	119	128	1484

Table 21 - Distribution of Death observed in Samples classified by Type of Medical Attention

	District	Institutional	Qualified Medical Practitioner	Unqualified Medical Practitioner	No Treatment	Total
101	Kasargod	27	44	3	10	84
102	Kannur	31	39	1	5	76
103	Wayanad	29	16	2	4	51
104	Kozhikode	104	5	2	111	
105	Malappuram	104	126	11	7	248
106	Palakkad	45	48	8	35	136
107	Thrissur	34	67	27	128	
108	Ernakulam	41	44	2	9	96
109	Idukki	21	5	20	5	51
110	Kottayam	43	48	1	5	97
111	Alappuzha	37	41	13	91	
112	Pathanamthitta	60	14	74		
113	Kollam	61	37	6	9	113
114	Thiruvananthapuram	120	1	4	3	128
	State	757	535	58	134	1484

Table 22 - Distribution of Samples according to Death Rate in Samples

Age Group	Total	101	102	103	104	105	106	107	108	109	110	111	112	113	114
1 & L.T 3	11		2	1		3	1			1				1	114
%	7.33		25.00	20.00		10.71	6.67			14.29				8.33	15.38
3 & L.T 5	27		1		3	7	2	3	1	3	1			2	4
%	18.00		12.50		27.27	25.00	13.33	23.08	12.50	42.86	11.11			16.67	30.77
5 & L.T 7	54	3	2	2	4	12	7	3	2	2	4	5	3	4	1
%	36.00	42.86	25.00	40.00	36.36	42.86	46.67	23.08	25.00	28.57	44.44	62.50	50.00	33.33	7.69
7 & L.T 9	43	3	2	2	2	3	4	6	4	1	3	2	2	5	4
%	28.67	42.86	25.00	40.00	18.18	10.71	26.67	46.15	50.00	14.29	33.33	25.00	33.33	41.67	30.77
9 & L.T 11	10		1		2	3	1	1			1				1
%	6.67		12.50		18.18	10.71	6.67	7.69			11.11				7.69
11 & L.T 13	4	1							1			1			1
%	2.67	14.29							12.50			12.50			7.69
13 & L.T 15	1												1		
%	0.67												16.67		
	150	7	8	5	11	28	15	13	8	7	9	8	6	12	13

Table 23 - District wise Infant Death Observed in Samples Estimated according to Sex and Infant Mortality Rate

	District	Infant Death			Estimated Infant Death			Estimated Live Births			Infant Mortality Rate		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
101	Kasaragod	4	3	7	369	277	646	12641	11164	23805	29.19	24.81	27.14
102	Kannur	1	2	3	98	197	295	12664	13056	25720	7.74	15.01	11.43
103	Wayanad	2	2	4	181	181	362	6332	7146	13478	28.58	25.33	26.86
104	Kozhikode	1	3	4	102	307	409	16449	13588	30037	6.20	22.52	13.58
105	Malappuram	16	12	28	1105	828	1933	39006	35968	74974	28.33	23.02	25.78
106	Palakkad	5	4	9	476	382	858	20793	19267	40060	22.94	19.83	21.44
107	Thrissur	2	1	3	219	110	329	18106	14046	32152	12.10	7.83	10.23
108	Eranakulam		3	3	0	385	385	14132	14775	28907	0.00	26.06	13.32
109	Idukki		1	1	104	0	104	9536	9640	19176	10.91	0.00	5.42
110	Kottayam	4	3	7	465	349	814	15924	12554	28478	29.20	27.80	28.58
111	Alappuzha				0	0	0	11059	8264	19323	0.00	0.00	0.00
112	Pathanamthitta		1	1	0	118	118	7435	10267	17702	0.00	11.49	6.67
113	Kollam	1	2	3	112	225	337	15381	15831	31212	7.28	14.21	10.80
114	Thiruvananthapuram	5	5	10	520	520	1040	19033	18305	37338	27.32	28.41	27.85
	State	42	41	83	3751	3879	7630	218491	203871	422362	17.17	19.02	18.06

of children
Table 24 - No of Infant Death Observed in Samples Born in Previous Year and Current Year

	District	1995			1996						Total
		<1 Year		Total	<7days		<28days		<1Year		
		Male	Female		Male	Female	Male	Female	Male	Female	
101	Kasargod				4	3	4	3	4	3	7
102	Kannur				1	1	1	2	1	2	3
103	Wayanad				1	2	2	2	2	2	4
104	Kozhikode				1	0	2	1	3	4	
105	Malappuram	3	2	5	6	6	10	8	13	10	23
106	Palakkad		1	1	4	1	4	2	5	3	8
107	Thrissur			1	1	2	2	0	2	0	2
108	Ernakulam			1	1	1	2	2	0	2	2
109	Idukki										
110	Kottayam				3	1	4	3	4	3	7
111	Alappuzha										
112	Pathanamthitta										
113	Kollam					1	0	2	1	2	3
114	Thiruvananthapuram		1	1	2	3	3	4	5	4	9
	State	3	6	9	23	20	31	30	39	35	74

Table 25 - No of Infant Death Estimated in Samples Born in Previous Year and Current Year

District	1995				1996					
	<1Year		Total	<7days		<28days		<1Year		
	Male	Female		Male	Female	Male	Female	Male	Female	
Kasaragod	0	0	0	369	277	369	277	369	277	646
Kannur	0	0	0	98	98	98	196	98	196	294
Wayanad	0	0	0	90	181	181	181	181	181	362
Kozhikode	0	0	0	0	102	0	204	102	306	408
Malappuram	207	138	345	414	414	690	552	897	690	1587
Palakkad	0	95	95	382	95	382	191	477	286	763
Thrissur	0	110	110	219	0	219	0	219	0	219
Ernakulam	0	128	128	0	128	0	257	0	257	257
Idukki	0	0	0	0	0	104	0	104	0	104
Kottayam	0	0	0	349	116	465	349	465	349	814
Alappuzha	0	0	0	0	0	0	0	0	0	0
Pathanamthitta	0	0	0	0	0	0	0	0	118	118
Kollam	0	0	0	0	112	0	225	112	225	337
Thiruvananthapuram	0	104	104	208	312	312	416	520	416	936
State	207	576	783	2130	1837	2820	2848	3545	3301	6846

Table 26 - Distribution of Perinatal neonatal and Infant death according to sex

	District	Lessthan 7			Lessthan 28			Lessthan 1 year		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
		101	Kasargod	369	277	646	369	277	646	369
102	Kannur	98	98	196	98	196	294	98	196	294
104	Kozhikode	0	102	102	0	204	204	102	306	408
103	Wayanad	90	181	271	180	181	361	180	181	361
105	Malappuram	414	414	828	690	552	1242	1104	828	1932
106	Palakkad	382	95	477	382	190	572	477	381	858
107	Thrissur	219	0	219	219	0	219	219	110	329
108	Ernakulam	0	128	128	0	256	256	0	384	384
109	Idukki	0	0	0	104	0	104	104	0	104
110	Kottayam	349	116	465	465	348	813	465	348	813
112	Pathanamthitta	0	0	0	0	0	0	0	118	118
113	Kollam	0	112	112	0	224	224	112	224	336
114	Thiruvananthapuram	208	312	520	312	416	728	520	520	1040
	Total	2129	1835	3964	2819	2844	5663	3750	3873	7623

Table 27 – Birth and Death detected through overlapping survey and intensive enquiry classified according to place and type of Births and Deaths.

District	Total	Birth						Total	Death					
		Place			Kind				Place			Kind		
		In	Out	Live Births	Still Births	In	Out		Live Births	Still Births	In	Out	Live Births	Still Births
1	2	3	4	5	6	7	8	9	10	11				
Kasaragod	7	1	6	7	-	5	5	-	-	5				
Kannur	8	2	6	7	1	2	1	1	-	2				
Wayanad	5	-	5	5	-	1	1	-	-	1				
Kozhikode	5	3	2	5	-	1	1	1	-	1				
Malappuram	28	9	19	27	1	9	4	5	4	5				
Palakkad	19	-	19	19	-	5	3	2	-	5				
Thrissur	7	2	5	7	-	5	5	-	-	5				
Ernakulam	16	9	7	16	-	-	-	-	-	-				
Idukki	7	-	7	7	-	2	-	2	1	1				
Kottayam	3	1	2	3	-	-	-	-	-	-				
Alappuzha	16	-	16	16	-	4	-	4	-	4				
Pathanamthitta	5	4	1	5	-	2	2	-	-	2				
Kollam	5	-	5	5	-	-	-	-	-	-				
Thiruvananthapuram	8	1	7	8	-	5	-	5	-	5				
State	139	32	107	137	2	41	21	20	5	36				

Table - 28 - Distribution of Births and Deaths recorded by Enumerator and Supervisor 1996

District	BIRTH					DEATH				
	Common to Enumerator & Supervisor	Recorded by Enumerator	Recorded by Supervisors	Missed by both Enumerator & Supervisor	TOTAL	Common to Enumerator & Supervisor	Recorded by Enumerator	Recorded by Supervisors	Missed by both Enumerator & Supervisor	TOTAL
1	2	3	4	5	6	1	2	3	4	5
1010 - Kasaragod	136	9	110	3	258	60	4	19	1	84
1020 -Kannur	130	2	130	-	262	36	-	40	-	76
1030 -Wayanad	95	15	38	1	149	37	2	11	1	51
1040 - Kozhikode	174	23	96	1	294	83	3	24	1	111
1050 - Malappuram	644	23	402	17	1086	179	6	57	6	248
1060Palakkad	268	14	136	2	420	106	15	15	-	136
1070 -Thrissur	184	2	107	-	293	109	3	16	-	128
1080 - Ernakulam	99	8	118	-	225	76	1	19	-	96
1090 Idukki	108	7	68	2	185	37	1	13	-	51
1100 -Kottayam	174	1	69	1	245	80	-	17	-	97
1110 - Alappuzha	132	5	19	3	159	77	7	4	3	91
1120 - Pathanamthitta	73	7	62	8	150	49	7	17	1	74
1130 Kollam	171	2	101	4	278	98	1	13	1	113
1140 - Thiruvananthapuram	212	22	125	-	359	77	20	30	1	128
TOTAL	2600	140	1581	42	4363	1104	70	295	15	1484

Table – 29 – Distribution of rate of marriage per thousand-population and percentage distribution of marriage according to Age and sex 1996.

Age group	Rate of marriage per 1000 population										Percentage					
	First Marriage		Remarriage		All marriage		First marriage		Remarriage		All marriage					
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
1	2	3	4	5	6	7	8	9	10	11	12	13				
15-19	1.08	37.49	0.00	0.00	1.08	37.49	1.11	33.57	0.00	0.00	1.09	33.29				
20-24	26.25	52.98	0.00	0.08	26.25	53.06	24.10	44.75	0.00	8.33	23.70	44.45				
25-29	59.70	22.69	0.41	0.25	60.11	22.94	49.74	18.88	20.00	25.00	49.25	18.93				
30-34	29.95	3.61	0.37	0.23	30.32	3.83	20.77	2.24	15.00	16.67	20.67	2.36				
35-39	5.64	0.76	0.25	0.33	5.89	1.08	3.85	0.49	10.00	25.00	3.95	0.69				
40-44	0.31	0.15	0.15	0.31	0.46	0.46	0.17	0.07	5.00	16.67	0.25	0.21				
45-49	0.49	0.00	0.63	0.16	2.12	0.16	0.26	0.00	50.00	8.33	1.09	0.07				
Total-15-49	19.12	21.18	0.33	0.18	19.45	21.36	100.00	100.00	100.00	100.00	100.00	100.00				

Table-30-Life Tables of Males based on Age specific Death rates for the year 1996

Age Group X to X+n	Age specific Death rate				Mean age specific Death rate(nmx)	Probability of person aged X Dying before age x+1 (qx)	No of death (dx)	No. Surviving to age x out of 100000 born alive (lx)	Year of life lived between x&x+n(Lx)	Year of life between x and above x (Tx)	Expectation of life in year (Ex)	Beginning Age x
	1994	1995	1996	1996								
1	2	3	4	5	6	7	8	9	10	11	12	
below1	19.9	16.61	17.33	0.01795	0.01720	1720	100000	98375	7017396	70.17	0	
1to4	0.76	0.24	0.90	0.00063	0.00252	248	98280	392624	6919021	70.40	1	
5to9	0.29	0.78	0.86	0.00064	0.00319	313	98032	489378	6526397	66.57	5	
10to14	0.44	0.19	0.21	0.00028	0.00140	137	97719	488253	6037019	61.78	10	
15to19	0.88	0.42	0.73	0.00068	0.00339	331	97582	487083	5548766	56.86	15	
20to24	1.17	0.58	1.93	0.00123	0.00613	596	97251	484765	5061683	52.05	20	
25to29	1.05	1.91	1.84	0.00160	0.00797	770	96655	481350	4576918	47.35	25	
30to34	2.48	1.18	1.85	0.00184	0.00916	878	95885	477230	4095568	42.71	30	
35to39	3.84	2.42	2.44	0.00290	0.01440	1368	95007	471615	3618338	38.08	35	
40to44	3.89	3.01	4.63	0.00384	0.01902	1781	93639	463743	3146723	33.60	40	
45to49	6.52	5.65	5.83	0.00600	0.02956	2715	91858	452503	2682980	29.21	45	
50to54	7.5	8.88	7.33	0.00790	0.03873	3453	89143	437083	2230477	25.02	50	
55to59	15.72	11.96	15.71	0.01446	0.06978	5979	85690	413503	1793394	20.93	55	
60to64	21.06	19.47	27.46	0.02266	0.10723	8547	79711	377188	1379891	17.51	60	
65to69	30.66	30.69	37.37	0.03291	0.15204	10820	71164	328770	1002703	14.09	65	
70 & above	92.03	76.92	99.67	0.08954	1.00000	60344	60344	673933	673933	11.17	70	

Table-31 - Life Tables of Females based on Age specific Death rates for the year 1996

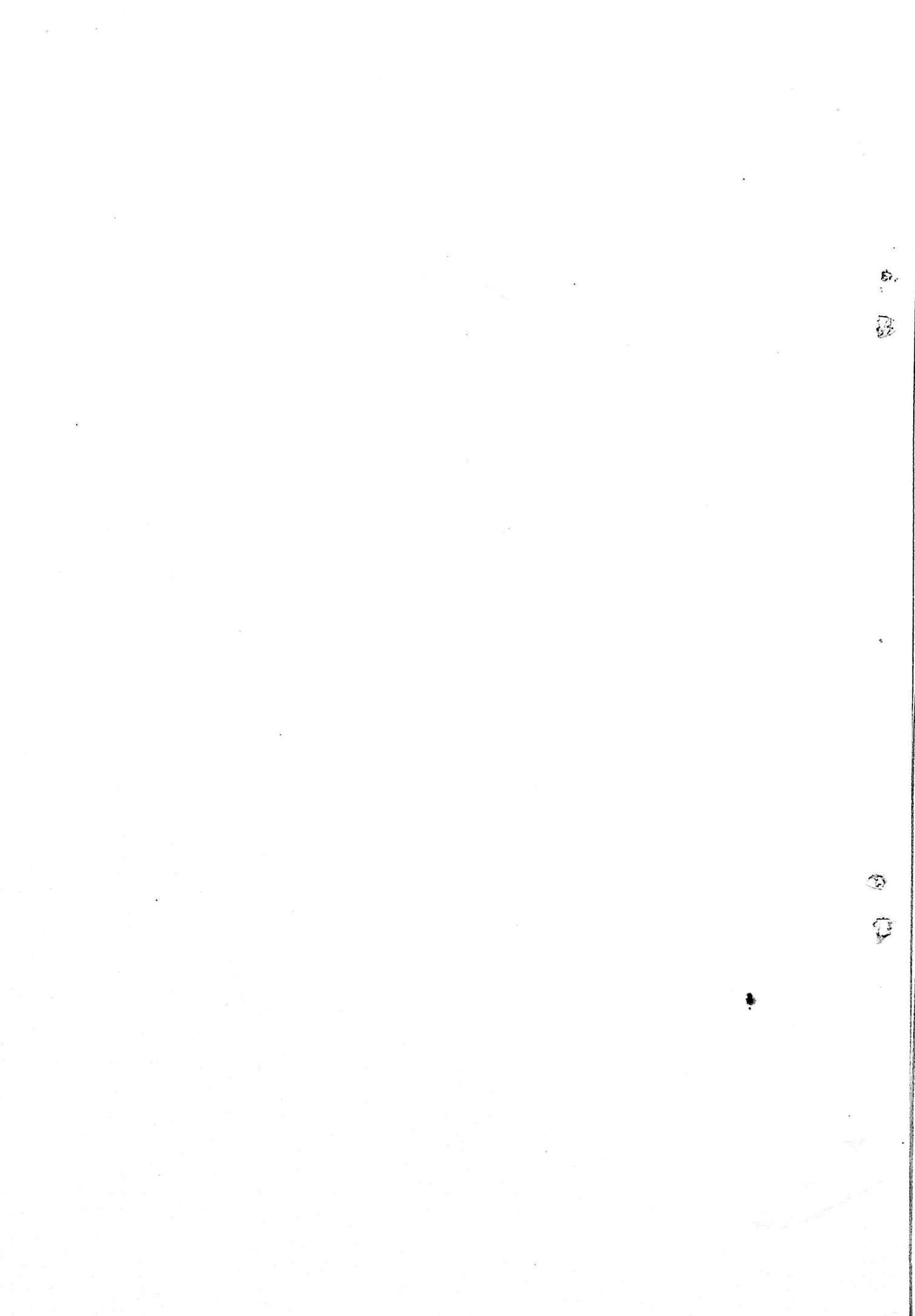
Age Group X to X+n	Age specific Death rate			Mean age specific Death rate(nm_x)	Probability of person aged X Dying before age $x+1$ (q_x)	No of death (dx)	No. Surviving to age x out of 100000 born alive (lx)	Year of life lived between x & $x+n$ (L_x)	Year of life between x and above x (T_x)	Expectation of life in year (Ex)	Beginning Age x
	1994	1995	1996								
1	2	3	4	5	6	7	8	9	10	11	12
below 1	13.56	14.47	18.46	0.01550	0.01903	1903	100000	98380	7635880	76.36	0
1 to 4	0.93	0.86	0.54	0.00078	0.00312	306	98097	391776	7537501	76.84	1
5 to 9	0.08	0.38	0.58	0.00035	0.00175	171	97791	488528	7145725	73.07	5
10 to 14	0.32	0.18	0.24	0.00025	0.00125	122	97620	487795	6657197	68.20	10
15 to 19	0.75	0.33	0.54	0.00054	0.00270	263	97498	486833	6169402	63.28	15
20 to 24	1.29	1.51	0.50	0.00110	0.00548	533	97235	484843	5682569	58.44	20
25 to 29	1.11	0.84	0.64	0.00086	0.00429	415	96702	482473	5197726	53.75	25
30 to 34	1.01	1.36	0.86	0.00108	0.00539	519	96287	480138	4715253	48.97	30
35 to 39	0.95	0.74	1.16	0.00095	0.00474	454	95768	477705	4235115	44.22	35
40 to 44	2.07	1.56	1.88	0.00184	0.00916	873	95314	474388	3757410	39.42	40
45 to 49	2.26	1.87	3.84	0.00266	0.01321	1248	94441	469085	3283022	34.76	45
50 to 54	5.31	4.21	3.76	0.00443	0.02191	2042	93193	460860	2813937	30.19	50
55 to 59	6.18	6.6	6.17	0.00632	0.03111	2836	91151	448665	2353077	25.82	55
60 to 64	12.85	9.24	15.58	0.01256	0.06089	5378	88315	428130	1904412	21.56	60
65 to 69	21.59	12.49	18.87	0.01765	0.08452	7010	82937	397160	1476282	17.80	65
70 & above	73.84	64.88	72.35	0.07036	1.00000	75927	75927	1079122	1079122	14.21	70

Table-32-Life Tables of Persons based on Age specific Death rates for the year 1996

Age Group X to X+n	Age specific Death rate			Mean age specific Death rate (mmx)	Probability of person aged X Dying before age x+1 (qx)	No of death (dx)	No. Surviving to age x out of 100000 born alive (lx)	Year of life lived between x&x+n (Lx)	Year of life between x and above x (Tx)	Expectation of life in year (Ex)	Beginning Age x
	1994	1995	1996								
1	2	3	4	5	6	7	8	9	10	11	12
below 1	16.8	15.53	17.89	0.01674	0.01809	1809	100000	98377	7313839	73.14	0
1 to 4	0.84	0.54	0.73	0.00070	0.00280	275	98191	392214	7215462	73.48	1
5 to 9	0.19	0.59	0.72	0.00050	0.00250	245	97916	488968	6823248	69.68	5
10 to 14	0.38	0.19	0.23	0.00027	0.00135	132	97671	488025	6334280	64.85	10
15 to 19	0.81	0.37	0.63	0.00060	0.00300	293	97539	486963	5846255	59.94	15
20 to 24	1.23	1.07	1.17	0.00116	0.00573	562	97246	484825	5359292	55.11	20
25 to 29	1.09	1.32	1.18	0.00120	0.00598	578	96684	481975	4874467	50.42	25
30 to 34	1.7	1.28	1.34	0.00144	0.00717	689	96106	478808	4392492	45.70	30
35 to 39	2.32	1.52	1.75	0.00186	0.00926	884	95417	474875	3913684	41.02	35
40 to 44	2.94	2.29	3.26	0.00283	0.01405	1328	94533	469345	3438809	36.38	40
45 to 49	4.28	3.75	4.84	0.00429	0.02122	1978	93205	461080	2969464	31.86	45
50 to 54	6.37	6.5	5.50	0.00612	0.03014	2750	91227	449260	2508384	27.50	50
55 to 59	10.56	9.19	10.72	0.01016	0.04954	4383	88477	431428	2059124	23.27	55
60 to 64	16.72	14.16	21.25	0.01738	0.08328	7003	84094	402963	1627696	19.36	60
65 to 69	25.79	21.01	27.43	0.02474	0.11649	8980	77091	363005	1224733	15.89	65
70 & above	81.89	70.42	84.80	0.07904	1.00000	68111	68111	861728	861728	12.65	70

Table - 33 - Number of Units and Population in the Universe and the sample - 1996

District	Universe		Samples		Percentage of Population	Raising factor for stratum estimated population P/P'
	No. of Census Villages	Population (1991)	No. of units selected	Population (1990)		
1	2	3	4	5	6	7
Kasaragod	116	895282	7	9703	1.08	92.26858
Kannur	78	1106251	8	11269	1.02	98.16763
Wayanad	87	1615444	11	15812	0.98	102.16569
Kozhikode	48	649179	5	7177	1.11	90.45270
Malappuram	123	2813876	28	40759	1.45	69.03692
Palakkad	155	2007658	15	21049	1.05	95.38021
Thrissur	209	2017095	13	18382	0.91	109.73207
Ernakulam	89	1444059	8	11240	0.78	128.47500
Idukki	65	1027185	7	9910	0.96	103.65136
Kottayam	90	1507353	9	12968	0.86	116.23635
Alappuzha	75	1391607	8	11451	0.82	121.52711
Pathanamthitta	64	1033298	6	8756	0.85	118.01027
Kollam	92	1961530	12	17471	0.89	112.27348
Thiruvananthapuram	93	1948407	13	18734	0.96	104.00378
State	1384	21418224	150	214681	1.00	99.76767



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