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Sample Registration of Births & Deaths Kerala 2000

Department of Economics & Statistics
Thiruvananthapuram

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**Department of Economics & Statistics
Thiruvananthapuram
2003**

PREFACE

The Sample Registration System was introduced in all the States of India under the direction of the Registrar General of India. 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 2000. 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 this Directorate.

M.R.BALAKRISHNAN
DIRECTOR

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Sample Registration of Births and Deaths in Kerala Rural – 2000

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 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 2000.

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 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 the 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. One Regional Statistical Officer, One Research Assistant, two Compilers and one Senior Compiler 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 units 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 re-verified by the Additional District Officer (SR) of the District Office.

Overlapping Survey

While conducting the half-yearly survey by supervisor, should also collect the details of birth and death of the last half year. During the year under report 148 birth events and 15 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 24420958 on 1.7.2000 and 24575892 on 1.1.2001. District wise analysis shows that population in Malappuram is 3275871 in which Male and Female populations are 1568381 and 1707490 respectively. Palakkad District comes next with 2215205 numbers. The lowest estimated population is in Wayanad with 812898 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 70 and above being 1219 and the corresponding figure against the age group 25-29 is 1205. It is the lowest in the age group 0-4. Considering the classification of population in terms of age group, the highest percentage population is 10.41 for the age group 15-19 and it is the lowest for the age group 65-69, being 2.46.

2.3 Religion wise Population

Classification of estimated population based on religion wise viz. Hindu, Muslim and Christian in the State was 13631153, 6494551 and 4295254 respectively. Out of the total population 55.82% were Hindus, 26.59% Muslims and 17.58% Christians. District wise figures shows that Hindu were maximum in Kollam followed by Thrissur. In the case of Muslim it was maximum in Malappuram followed by Kozhikkode. As regards to Christian population it was maximum in Eranakulam followed by Kottayam.

CHAPTER - III

Measures of Fertility

3.1 Fertility Indicators

The most common measures of fertility are the 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.

Birth rate is defined as the number of live births per 1000 population (mid year). The births to the usual residuals were only taken in to account for the calculation of vital rates. The birth rate of Kerala estimated during the year under report was 18.98. District wise birth rate displayed that Malappuram was the highest among the districts with 27.02 followed by Kasaragod with 23.00. However the lowest birth rate was in Pathanamthitta district having only 8.9.

Table - A

Birth rate of Kerala and India (Rural) for the year 1991 to 2000.

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
BR	18.4	17.6	17.5	17.2	18.1	18.1	17.9	18.3	18.1	18.0
BR(I)	30.9	30.9	30.4	30.5	30.0	29.3	27.2	18.0	27.6	27.6

(Source - SRS bulletin)

3.2 Births rate of neighbouring States (2000)

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

State	Rural	Rural and Urban combined
Andhra Pradesh	21.7	21.3
Karnataka	23.3	22.0
Tamil Nadu	20.0	19.3
Kerala	18.0	17.9
India	27.6	25.8

(Source - SRS bulletin)

Kerala gives the lowest birth rate when compared to the neighbouring States - Generally 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 No. 16 represents the birth rate existing in the samples. Out of 150 samples 37 numbers have the birth rate between 12 and 16, and 36 numbers have the birth rate between 16 and less than 20.

3.4 Age Specific Fertility rate

Age specific fertility rate can be defined as the number of live birth in a year to 1000 women of a specific age group. Table No.9 represents the Age specific fertility rate. It was highest in the age group

of 20-24 with 158.07. District wise figure shows that the Age Specific Fertility Rate was highest in Kozhikode with 216.27 at the age group of 20-24.

3.5 Age Specific Marital Fertility Rate

Age Specific Marital Fertility Rate is defined as the number of live births in a year to 1000 married women of specific age group. Table 9A shows the district level and state level marital fertility rate during the year under report. Age specific fertility rate was highest in the age group of 20-24 with 282 followed by 268 the age group 15-19. Age Specific Marital Fertility Rate highest was in Kottayam District with 625 and lowest in Kozhikode District with 81.

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

The number of ever born and surviving children of currently married women in different age group from 15-19 to 45-49 is given in table 11 which is appended. It is observed that out of 4835 birth events 2228 were initial birth and 1710 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 General Fertility Rate. General Fertility Rate of the State was 66.44 during the year under report. District wise figures shows that it was highest in Malappuram and lowest in Pathanamthitta District. General Fertility rate from 1991 to 2000 in the State is as follows :-

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
GFR	64.8	61.6	61.2	60.0	62.9	62.6	64.1	59.4	60.50	66.44

3.8 Total Fertility Rate (TFR)

Total fertility rate represents 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. The state level total fertility rate was 1.99 during the year under report. The total fertility rate from 1991 to 2000 is stated below:

Tear	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TFR	1.8	1.7	1.7	1.7	1.9	1.8	1.9	1.8	1.8	1.99

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 passes through her child bearing years conforming to the age specific fertility rate of the year. The gross reproduction rate of the State from 1991 to 2000 is stated below:

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
GRR	0.92	0.82	0.83	0.80	0.90	0.89	0.88	0.87	0.86	0.97

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 1991 to 2000 is presented below: -

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
NRR	0.91	0.81	0.83	0.79	0.90	0.89	0.87	0.87	0.86	0.96

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). The number of still birth estimated during the year was 1856 in which the male and female classification were and 673 and 1183 respectively. District wise still birth shows that it was maximum in Kasaragod with 554 followed by Kottayam.

Still birth rate in the State during the year was 3.99.

3.12 Order of Birth by age of mother

The percentage of distribution of births by age of mother and order of birth of child is given in Table 15 appended. Out of total 4835 births 46.06% of birth comes as first and 35.39% of birth comes under IInd order of birth. The birth under sixth order and above during the year under report is less.

3.13 Birth by type of Medical Attendance received

Table 14 represents the details of medical attention received by the women during the delivery period. Out of the 4835 events, 4799 numbers had received institutional medical attention i.e. 99.3% of delivery was happened in the medical institutions. All the births in most of the districts were happened in the medical institutions. It was observed that the number of people are utilising the institutional facilities provided for maternal and child health. The percentage distribution of births by type of medical attention received for the period from 1991 to 2000 are furnished below: -

Year	Institutions	Trained Professional	Untrained professional	Non Professional	Not stated
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	-
1996	96.95	1.6	1.1	0.02	-

1997	97.8	1.0	0.9	0.3	-
1998	98.8	0.6	0.2	0.4	-
1999	99.7	0.1	0.1	0.1	-
2000	99.3	0.4	0.2	0.1	-

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 1991 to 2000 is sated below: -

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Sex ratio at birth	965	1082	1062	1123	1054	1072	1083	1051	1081	1034

District wise figures shows that the same was highest in Pathanamthitta and lowest in Palakkad.

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 328.9

3.16 Comparison of Vital rates under SRS and CRS

The Civil Registration System is a statutory system of recording the details of vital events in the state and national level. The functions of Civil Registration System is not in a full-fledged level due to the existence of under Registration System. Sample Registration System provide cent percent reliability in data. The comparison of vital rates obtained through Civil Registration System and Sample Registration System has some variations. Usually the birth 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
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	2.1	8.3
1995	9.4	18.4	3.9	6.2
1996	9.4	18.0	3.1	10.5
1997	9.8	18.6	2.7	6.9
1998	9.4	18.3	2.6	6.6
1999	9.0	18.1	2.8	2.2
2000	8.5	18.98	4.18	3.99

It is clear that the birth rate and death rate estimated in SRS is always higher than that in CRS.

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

Table no. 29 represent the rate of marriage per 1000 population and percentage distribution of marriage according to age and sex. During the year under report the rate of marriage at state level with

male and female division was 20.71 and 27.26 respectively. Most of the marriage was occurred at the age of 25-29 to males and 20-24 females.

CHAPTER - IV

Mortality Measures

4.1 Death Rate

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 Thrissur district with 8.57 followed by Alappuzha with 8.29.

Table - 1 represent the district wise and state wise death rate.

4.2 Death rate of neighbouring State

The death rates in rural area and rural and urban combined provisionally for the year 2000 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	9.0	8.2
Karnataka	8.6	7.8
Tamil Nadu	8.7	7.9
Kerala	6.5	6.4
All India	9.3	8.5

Source : SRS Bulletin

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 15 to 19 and above, the number of deaths were increasing. District wise analysis present that maximum number of death estimated was in Thrissur district with 18654 followed by Malappuram District with 16431. The minimum number of death estimated was in Wayanad district with 3889.

4.4 Infant Mortality Rate

The infant mortality rate is defined as the estimated number of children below one year out of 1000 live birth in an year. Infant Mortality Rate in the State during 2000 was 13.18. Number of infant deaths estimated during the year under report was 6107 in which the males and females were 3265 and 2842 respectively.

District wise figure shows that infant deaths were estimated maximum in Malappuram with 1173 numbers of which the males and females were 621 and 552 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 7.65 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 5.83. The classification of infant mortality rate was perinatal, neo natal and post natal is given in Table No. 26

4.7 Distribution of Samples according to death rate of each sample

Table 22 represents the details regarding the extend of Sample wise death rate. In 47 samples, death rate is in between 5 and 7 and 40 samples, it is in the range of 3 to 5 and in 33 sample the is in range between 7 & 9.

4.8 Medical attendance received before death

The percentage distribution of deaths according to type of medical attention received for the year 1991 to 2000 are stated below:

Year	Institutional	Qualified medical practitioner	Unqualified medical practitioner	None
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
1997	60	27	4	9
1998	55	30	6	9
1999	58	27	5	10
2000	54	30	5	11

Table No.21 denotes the deaths classified by type of medical attention. Out of 1546 death events 827 numbers were occurred in institutions 469 numbers by qualified medical practitioners and 81 by unqualified medical practitioner.

4.9 Comparison of rural mortality rate under Civil Registration System and SRS for the year from 1991 to 2000

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	Death Rate		Infant Mortality Rate	
	CRS	SRS	CRS	SRS
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
1997	4.2	6.0	5.0	18.8
1998	4.7	6.5	4.9	11.5
1999	4.5	6.3	4.4	14.5
2000	4.3	6.5	7.3	13.2

The death rate and infant mortality rate estimated under Civil Registration System are less than that of the rates arrived through Sample Registration System. The low mortality rate under Civil Registration System may be due to the fact that a considerable number of births and deaths of the resident population in rural areas are registered in urban areas where they seek better medical attention.

4.10 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. Expectation of life in different age group is calculated in the life table - Table No. 30, 31 and 32 appended to this Report. The life table prepared sex wise and population wise separately based on Age specific death rate 1998, 1999, 2000. The expectation of life at birth for males, females and for both sex together were calculated separately. Expectation of life calculated for the last 10 years are given below:

4.11 Expectation of life based on age specific death rates

Age specific death rates for the year			Male	Female	Both Sex
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	65.2	67.5
1993	1994	1995	70.2	76.6	73.6
1994	1995	1996	70.4	76.8	73.5
1995	1996	1997	70.2	77.5	73.6
1996	1997	1998	69.1	76.7	72.7
1997	1998	1999	69.0	76.4	72.5
1998	1999	2000	69.3	75.8	72.4

METHOD ADOPTED FOR CALCULATION OF LIFE TABLE

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

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

Where D_1 is the number of deaths of children born during 1999 and died in 2000. D_2 is that of the children born and died in 2000. B_1 and B_2 denote the total number of births occurred during 1999 and 2000 respectively.

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

Let l_0 be 1,00,000

$$l_x = l_0 - d_0$$

$$d_x = l_x \times q_x$$

Let $d_{>0} = l_{>0}$

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

where $f =$

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

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

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

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 -1 Midyear estimated population, Births, Deaths and Vital rates 2000

Estimated figures

District	Population	Vital Rates							
		Births	Deaths	Still Birth	Infant death	Birth	Death	Still Birth	Infant Death
Kasaragod	1095412	25189	5259	554	646	23	4.8	21.52	25.65
Kannur	1262927	27291	7166	0	294	21.61	5.67	0	10.81
Wayanad	812898	14653	3889	0	180	18.03	4.78	0	12.35
Kozhikode	1889759	43216	8786	204	408	22.87	4.65	4.7	9.46
Malappura	3275871	88505	16431	207	1173	27.02	5.02	2.33	13.26
Palakkad	2215205	47213	14689	190	573	21.31	6.63	4.03	12.12
Thrissur	2175548	33907	18654	219	439	15.59	8.57	6.42	12.95
Eranakulam	1684950	29035	10406	128	385	17.23	6.18	4.39	13.26
Idukki	1150634	22492	6634	0	518	19.55	5.77	0	23.03
Kottayam	1683684	27780	12902	232	116	16.5	7.66	8.28	4.18
Alappuzha	1656657	25278	13733	122	608	15.26	8.29	4.8	24.05
Pathanamthitta	1126644	10031	9205	0	118	8.9	8.17	0	11.76
Kollam	2187761	35478	15157	0	337	16.22	6.93	0	9.5
Thiruvananthapuram	2203008	33489	14873	0	312	15.2	6.75	0	9.32
State	24420958	463557	157784	1856	6107	18.98	6.46	3.99	13.18

Table 2 - Sample Population and Estimated Population - District wise

	Districts	Observed Population		Estimated Population	
		As on 1 st July 2000	As on January 2001	As on 1 st July 2000	As on January 2001
101	Kasaragod	11872	11880	1095412	1096150
102	Kannur	12865	12966	1262927	1272841
103	Wayanad	8987	8989	812898	813079
104	Kozhikode	18497	18573	1889759	1897523
105	Malappuram	47451	47919	3275871	3308180
106	Palakkad	23225	23411	2215205	2232946
107	Thrissur	19826	19904	2175548	2184108
108	Eranakulam	13115	13172	1684950	1692272
109	Idukki	11101	11119	1150634	1152499
110	Kottayam	14485	14594	1683684	1696353
111	Alappuzha	13632	13651	1656657	1658967
112	Pathanamthitta	9547	9698	1126644	1144464
113	Kollam	19486	19733	2187761	2215493
114	Thiruvananthapuram	21182	21259	2203008	2211017
	Grand Total	245271	246868	24420958	24575892
	State				

Table 3 Population according to Sex 2000

	Districts	Sample			Estimated		
		Male	Female	Total	Male	Female	Total
101	Kasaragod	5887	5985	11872	543185	552227	1095412
102	Kannur	6095	6770	12865	598332	664595	1262927
103	Wayanad	4467	4520	8987	404052	408846	812898
104	Kozhikode	8891	9606	18497	908355	981404	1889759
105	Malappuram	22718	24733	47451	1568381	1707490	3275871
106	Palakkad	10979	12246	23225	1047179	1168026	2215205
107	Thrissur	9356	10470	19826	1026653	1148895	2175548
108	Eranakulam	6579	6536	13115	845237	853713	1684950
109	Idukki	5562	5539	11101	576509	574125	1150634
110	Kottayam	7174	7311	14485	833880	849804	1683684
111	Alappuzha	6542	7090	13632	795030	861627	1656657
112	Pathanamthitta	4556	4991	9547	537655	588989	1126644
113	Kollam	9488	9998	19486	1065251	1122510	2187761
114	Thiruvananthapuram	10207	10975	21182	1061567	1141441	2203008
	Grand Total	118501	126770	245271	11811266	12609692	24420958

Table 4 A Midyear Sample Population according to Age and Sex

Age group	Observed		
	Male	Female	Total
Below 1	2585	2549	5134
1-4	9745	9181	18926
5-9	10666	10325	20991
10-14	11736	11322	23058
15-19	12487	13054	25541
20-24	11042	12349	23391
25-29	9755	11757	21512
30-34	8866	10283	19149
35-39	8030	9113	17143
40-44	7439	8271	15710
45-49	6464	6273	12737
50-54	5339	5677	11016
55-59	3916	4267	8183
60-64	3537	4011	7548
65-69	2753	3290	6043
70-74	1943	2295	4238
75-79	1140	1409	2549
80-84	630	784	1414
85+	428	560	988
All Ages	118501	126770	245271

Table 4B Estimation by age group and sex

Age Group	Estimated		
	Male	Female	Total
Below 1	249718	246809	496527
1-4	943204	890285	1833489
5-9	1037118	999868	2036986
10-14	1140770	1097073	2237843
15-19	1217668	1262898	2480566
20-24	1089188	1214648	2303836
25-29	978121	1177836	2155957
30-34	898240	1033824	1932064
35-39	816002	918727	1734729
40-44	756210	836682	1592892
45-49	659738	638783	1298521
50-54	545046	579636	1124682
55-59	401467	436090	837557
60-64	361160	409745	770905
65-69	283804	339724	623528
70-74	201881	237741	439622
75-79	119789	146921	266710
80-84	66681	82650	149331
Above 85	45459	59754	105213
All Ages	11811264	12609694	24420958

Table - 5 Sex Ratio and percentage distribution of population by Age group

F1	Age group	SexRatio98	%Population
1	0 to 4	951	9.81
3	5 - 9	968	8.56
4	10 - 14	965	9.4
5	15 - 19	1045	10.41
6	20 - 24	1118	9.54
7	25 - 29	1205	8.77
8	30 - 34	1160	7.81
9	35 - 39	1135	6.99
10	40 - 44	1112	6.41
11	45 - 49	970	5.19
13	50 - 54	1063	4.49
14	55 - 59	1090	3.34
15	60 - 64	1134	3.08
16	65 - 69	1195	2.46
18	70 and Above	1219	3.75
21	All Ages	1070	100

Table 6 Religion wise Population -Sample and Estimated

District	Sample				Estimated			
	Hindu	Muslim	Christian	Total	Hindu	Muslim	Christian	Total
Kasaragod	7014	4384	474	11872	647172	404505	43735	1095412
Kannur	5233	4895	2737	12865	513711	480531	268685	1262927
Wayanad	5147	2244	1596	8987	465560	202976	144363	812899
Kozhikode	11735	6367	395	18497	1198914	650489	40355	1889758
Malappuram	14962	31696	793	47451	1032930	2188194	54746	3275870
Palakkad	16040	6333	852	23225	1529899	604043	81264	2215206
Thrissur	14165	2739	2922	19826	1554355	300556	320637	2175548
Eranakulam	4775	3611	4729	13115	613468	463923	607558	1684949
Idukki	5479	1101	4521	11101	567906	114120	468608	1150634
Kottayam	6906	3030	4549	14485	802728	352196	528759	1683683
Alappuzha	8771	1001	3860	13632	1065914	121649	469095	1656658
Pathanamthitta	4928	204	4415	9547	581555	24074	521015	1126644
Kollam	14080	3331	2075	19486	1580811	373983	232967	2187761
Thiruvananthapuram	14194	2051	4937	21182	1476230	213312	513467	2203009
State	133429	72987	38855	245271	13631153	6494551	4295254	24420958

Table 7 District wise live Births Observed and Estimated in Samples

	Dist	Male	Female	Total	Sex Ratio	EM	EF	E Total
101	Kasaragod	135	138	273	97.83	12456	12733	25189
102	Kannur	144	133	278	108.27	14136	13155	27291
103	Wayanad	207	216	423	95.83	21148	22068	43216
104	Kozhikode	81	81	162	100	7327	7326	14653
105	Malappuram	643	639	1282	100.63	44391	44114	88505
106	Palakkad	238	257	495	92.61	22700	24513	47213
107	Thrissur	164	145	309	113.1	17996	15911	33907
108	Eranakulam	115	111	226	103.6	14775	14260	29035
109	Idukki	112	105	217	106.67	11609	10883	22492
110	Kottayam	133	106	239	125.47	15459	12321	27780
111	Alappuzha	114	94	208	121.28	13854	11424	25278
112	Pathanamthitta	49	36	85	136.11	5783	4248	10031
113	Kollam	155	160	316	96.88	17402	18076	35478
114	Thiruvananthapuram	167	155	322	107.74	17369	16120	33489
		2457	2376	4835	103.41	236405	227152	463557

Table 8A Observed number of Total Women in different age Group

Dist	Age Group of Women							
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
101	630	703	530	470	403	383	245	3564
102	751	712	636	510	422	468	283	3782
103	521	515	437	419	311	297	185	2685
104	981	897	974	659	794	483	521	5309
105	3191	2570	2050	1838	1566	1412	980	13607
106	1451	1242	1179	905	767	597	550	6691
107	946	913	1001	894	804	751	520	5829
108	541	593	634	595	513	495	370	3741
109	489	564	562	471	433	453	315	3287
110	602	550	677	655	574	550	418	4026
111	583	659	656	628	514	542	389	3971
112	474	433	411	430	423	368	327	2866
113	878	971	964	877	752	664	597	5703
114	1016	1027	1046	932	837	808	573	6239
	13054	12349	11757	10283	9113	8271	6273	71100

Table 8B Estimated number of Total Women in different age Group

	District	Age Group of Women							Total
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	
101	Kasaragod	58129	64865	48902	43366	37184	35339	22606	310391
102	Kannur	73724	69895	62435	50065	41427	45942	27781	371269
104	Wayanad	100225	91643	99509	67327	81120	49346	53228	542398
103	Kozhikode	47126	46583	39528	37900	28131	26864	16734	242866
105	Malappuram	220297	177425	141526	126890	108112	97480	67656	939386
106	Palakkad	138397	118462	112453	86319	73157	56942	52459	638189
107	Thrissur	103807	100185	109842	98100	88225	82409	57061	639629
108	Eranakulam	69505	76186	81453	76443	65908	63595	47536	480626
109	Idukki	50686	58459	58252	48820	44881	46954	32650	340702
110	Kottayam	69974	63930	78692	76135	66720	63930	48587	467968
111	Alappuzha	70850	80086	79722	76319	62465	65868	47274	482584
112	Pathanamthitta	55937	51098	48502	50744	49918	43428	38589	338216
113	Kollam	98576	109018	108232	98464	84430	74550	67027	640297
114	Thiruvananthapuram	105668	106812	108788	96932	87051	84035	59594	648880
	State	1262901	1214647	1177836	1033824	918729	836682	638782	7083401

Table 8C Observed number of Married Women in different age Group

	District	Age Group of Women							Total
		15-19	20-24	25-29	30-34	35-39	40-44	45-49	
101	Kasaragod	74	412	432	422	346	301	186	2173
102	Kannur	88	419	549	463	381	396	215	2511
103	Wayanad	98	358	380	372	282	256	140	1886
104	Kozhikode	197	676	905	589	720	391	420	3898
105	Malappuram	864	1780	1722	1611	1378	1204	786	9345
106	Palakkad	324	760	941	767	657	516	452	4417
107	Thrissur	40	362	875	810	740	656	442	3925
108	Eranakulam	5	233	495	535	470	451	327	2516
109	Idukki	34	264	449	431	395	396	270	2239
110	Kottayam	8	192	567	611	536	491	368	2773
111	Alappuzha	18	244	536	586	477	487	329	2677
112	Pathanamthitta	7	278	378	412	410	360	314	2159
113	Kollam	24	483	820	819	700	613	520	3979
114	Thiruvananthapuram	34	490	861	837	764	707	482	4175
	State	1815	6951	9910	9265	8256	7225	5251	48673

Table 8D Estimated Number of married women in different age group

Age Group of Women

	Districts	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
101	Kasaragod	6828	38015	39860	38937	31925	27773	17162	200500
102	Kannur	8639	41132	53894	45452	37402	38874	21106	246499
103	Wayanad	20127	69064	92460	60176	73559	39947	42910	398243
104	Kozhikode	8864	32382	34372	33648	25508	23156	12663	170593
105	Malappuram	59648	122886	118882	111218	95133	83120	54263	645150
106	Palakkad	30903	72489	89753	73157	62665	49216	43112	421295
107	Thrissur	4389	39723	96016	88883	81202	71984	48502	430699
108	Eranakulam	642	29935	63595	68734	60383	57942	42011	323242
109	Idukki	3524	27364	46539	44674	40942	41046	27986	232075
110	Kottayam	930	22317	65906	71020	62303	57072	42775	322323
111	Alappuzha	2187	29653	65139	71215	57968	59184	39982	325328
112	Pathanamthitta	826	32807	44608	48620	48384	42484	37055	254784
113	Kollam	2695	54228	92064	91952	78591	68824	58382	446736
114	Thiruvananthapuram	3536	50962	89547	87051	79459	73531	50130	434216
	State	153738	662957	992635	934737	835424	734153	538039	4851683

Table 8E Observed No. of Live Births in different age Group

District	Age Group of Women							
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
Kasaragod	20	119	84	43	6	1		273
Kannur	25	119	106	24	1	3		278
Kozhikode	25	75	43	15	4			162
Wayanad	16	194	155	50	7	1		423
Malappuram	196	547	320	147	52	19	1	1282
Palakkad	72	230	141	37	14	1		495
Thrissur	10	125	124	39	11			309
Eranakulam	1	82	98	41	4			226
Idukki	12	85	83	32	4	1		217
Kottayam	5	63	110	53	8			239
Alappuzha	4	65	87	44	7	1		208
Pathanamthitta	1	29	37	15	2	1		85
Kollam	7	137	132	36	3	1		316
Thiruvananthapuram	11	130	139	35	6	1		322
	405	2000	1659	611	129	30	1	4835

Table 8F Estimated number of Live Birth in different age Group

Age Group of Women

	Districts	15-19	20-24	25-29	30-34	35-39	40-44	45-49	Total
101	Kasaragod	1845	10980	7751	3968	554	92	0	25189
102	Kannur	2454	11682	10406	2356	98	295	0	27291
104	Wayanad	1635	19820	15836	5108	715	102	0	43216
103	Kozhikode	2261	6784	3889	1357	362	0	0	14653
105	Malappuram	13531	37763	22092	10148	3590	1312	69	88505
106	Palakkad	6867	21937	13449	3529	1335	95	0	47213
107	Thrissur	1097	13717	13607	4280	1207	0	0	33907
108	Eranakulam	128	10535	12591	5267	514	0	0	29035
109	Idukki	1244	8810	8603	3317	415	104	0	22492
110	Kottayam	581	7323	12786	6161	930	0	0	27780
111	Alappuzha	486	7899	10573	5347	851	122	0	25278
112	Pathanamthitta	118	3422	4366	1770	236	118	0	10031
113	Kollam	786	15381	14820	4042	337	112	0	35478
114	Thiruvananthapuram	1144	13520	14457	3640	624	104	0	33489
	State	34177	189573	165226	60290	11768	2456	69	463557

Table 8G Estimated Female Live Birth in different age Group

	District	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
	Kasaragod	1199	5536	3691	1938	369	0	0	12733
	Kannur	982	6086	4614	1276	98	0	0	13056
	Kozhikode	715	10217	7662	3065	409	0	0	22068
	Wayanad	1085	3166	2442	452	181	0	0	7326
	Malappuram	6559	18709	11529	4556	2002	759	0	44114
	Palakkad	3529	11064	7440	1908	477	95	0	24513
	Thrissur	658	6803	6694	1317	439	0	0	15911
	Eranakulam		5396	5139	3469	257	0	0	14261
	Idukki	829	4250	4042	1451	207	104	0	10883
	Kottayam	349	3138	5928	2673	232	0	0	12320
	Alappuzha	243	3889	4861	2187	122	122	0	11424
	Pathanamthitta	118	944	2360	708	0	118	0	4248
	Kollam	449	7410	7747	2133	225	0	0	17964
	Thiruvananthapuram	416	6656	7176	1560	312	0	0	16120
	State (avg)	17131	93264	81325	28693	5330	1198	0	226941

**Table 9 - Age Specific Fertility Rate = No of Live Births in particular Age Group
No of Mid Year Female Population**

District	15-19	20-24	25-29	30-34	35-39	40-44	45-49	GFR	TFR
Kasaragod	31.74	169.27	158.5	91.5	14.9	2.6	0	81.15	2.34
Kannur	33.29	167.14	166.67	47.06	2.37	6.42	0	73.51	2.11
Kozhikode	16.31	216.27	159.14	75.87	8.81	2.07	0	79.68	2.39
Wayanad	47.98	145.63	98.39	35.8	12.87	0	0	60.33	1.7
Malappuram	61.42	212.84	156.1	79.97	33.21	13.46	1.02	94.22	2.79
Palakkad	49.62	185.18	119.6	40.88	18.25	1.67	0	73.98	2.08
Thrissur	10.57	136.92	123.88	43.63	13.68	0	0	53.01	1.64
Eranakulam	1.84	138.28	154.58	68.9	7.8	0	0	60.41	1.86
Idukki	24.54	150.7	147.69	67.94	9.25	2.21	0	66.02	2.01
Kottayam	8.3	114.55	162.48	80.92	13.94	0	0	59.36	1.9
Alappuzha	6.86	98.63	132.62	70.06	13.62	1.85	0	52.38	1.62
Pathanamthitta	2.11	66.97	90.02	34.88	4.73	2.72	0	29.66	1.01
Kollam	7.97	141.09	136.93	41.05	3.99	1.5	0	55.41	1.66
Thiruvananthapuram	10.83	126.58	132.89	37.55	7.17	1.24	0	51.61	1.58
State (avg)	27.06	156.07	140.28	58.32	12.81	2.94	0.11	65.44	1.99
Female	13.56	76.78	69.05	27.75	5.80	1.43	0.00	32.04	0.97

Table 9A Age Specific Marital Fertility Rate (8c*1000/8b)

	District	15-19	20-24	25-29	30-34	35-39	40-44	45-49
101	Kasaragod	270	289	194	102	17	3	0
102	Kannur	284	284	193	52	3	8	0
104	Kozhikode	81	287	171	85	10	3	0
103	Wayanad	255	209	113	40	14	0	0
105	Malappuram	227	307	186	91	38	16	1
106	Palakkad	222	303	150	48	21	2	0
107	Thrissur	250	345	142	48	15	0	0
108	Eranakulam	199	352	198	77	9	0	0
109	Idukki	353	322	185	74	10	3	0
110	Kottayam	625	328	194	87	15	0	0
111	Alappuzha	222	266	162	75	15	2	0
112	Pathanamthitta	143	104	98	36	5	3	0
113	Kollam	292	284	161	44	4	2	0
114	Thiruvananthapuram	324	265	161	42	8	1	0
	Average	268	282	165	64	13	3	0

Table 10 - Distribution of live births observed in samples according to age of currently married women and no of surviving children

Age Group	No. of Children Surviving							Total
	1	2	3	4	5	6	7	
15 to 19	368	33	2					405
20 to 24	1223	634	115	18			1	2000
25 to 29	549	725	284	80	13	2	2	1659
30 to 34	85	275	128	63	37	13	9	611
35 to 39	17	34	35	16	11	7	8	129
40 to 44	4	5	3	4	3	2	9	30
45 and above							1	1
Total	2246	1706	567	181	64	24	29	4835

Table 11 Distribution of Live Births observed in samples according to age of currently married women and no of ever born children

Age Group	No. of Children ever born							Total
	1	2	3	4	5	6	7	
15 to 19	368	33	2					405
20 to 24	1213	640	120	18			1	2000
25 to 29	544	726	266	80	13	2	1	1659
30 to 34	82	273	133	62	37	14	9	611
35 to 39	17	34	34	17	11	7	8	129
40 to 44	4	4	4	4	3	2	9	30
45 and above							1	1
Total	2228	1710	581	181	64	25	29	4835

Table 12 Distribution of currently married women observed in samples according to age of mother and age of last child Age of last child in months

Age Group	0-14	15-19	30-44	45-59	60-74	75-89	90-104	105-119	120-134	>134	Total
15 to 19	379	20	5								405
20 to 24	1268	328	260	94	38	8	3				2000
25 to 29	597	312	315	211	125	60	24	8	7		1659
30 to 34	97	99	123	88	93	43	30	21	12	5	611
35 to 39	23	15	20	20	13	9	7	9	7	6	129
40 to 44	5	8	4	5	2	2			3	1	30
45 and above							1				1
Total	2369	782	727	418	271	122	66	38	30	12	4835

Table 13 Live Birth Observed in Samples Month wise Occurrence

	District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
101	Kasaragod	20	25	27	22	24	20	20	20	19	33	24	19	273
102	Kannur	24	26	32	25	23	20	21	21	16	26	32	12	278
103	Wayanad	17	15	13	17	20	12	7	5	13	11	12	20	162
104	Kozhikode	50	38	48	48	37	40	24	33	21	28	29	27	423
105	Malappuram	127	105	133	126	141	108	95	88	75	97	86	101	1282
106	Palakkad	40	37	50	44	48	51	29	32	41	41	40	42	495
107	Thrissur	17	21	28	25	29	28	29	32	25	29	18	28	309
108	Eranakulam	20	19	24	15	20	21	20	11	23	17	17	19	226
109	Idukki	14	25	24	17	18	14	13	23	16	17	18	18	217
110	Kottayam	19	28	18	21	23	15	30	18	19	19	19	10	239
111	Alappuzha	19	18	26	17	20	13	16	12	20	16	19	12	208
112	Pathanamthitta	3	9	8	6	3	6	8	13	7	7	7	8	85
113	Kollam	29	21	27	21	27	31	25	27	24	32	24	28	316
114	Thiruvananthapuram	31	21	31	26	38	23	26	30	20	25	25	26	322
	Total	430	408	489	430	471	402	363	365	339	398	370	370	4835

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

	District	Institutional Professional	Trained Professional	Un-Trained Professional	Non Professional	Not Stated	Total
101	Kasaragod	273					273
102	Kannur	276		2			278
103	Wayanad	156	4	1	1		162
104	Kozhikode	420	3				423
105	Malappuram	1267	10	4	1		1282
106	Palakkad	491		1	3		495
107	Thrissur	309					309
108	Ernakulam	226					226
109	Idukki	216			1		217
110	Kottayam	239					239
111	Alappuzha	208					208
112	Pathanamthitta	83	2				85
113	Kollam	313	3				316
114	Thiruvananthapuram	322					322
	Total	4799	22	8	6		4835

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

Dist	Not Sta- ted	1	2	3	4	5	6	7 and above	Total
15 To 19	368	90.86	33	8.15	2	0.49			405
20 To 24	1212	60.60	640	32.00	120	6.00	18	0.90	2000
25 To 29	544	32.79	726	43.76	288	17.36	80	4.82	1659
30 To 34	82	13.42	274	44.84	132	21.80	62	10.15	611
35 To 39	17	13.18	34	26.36	34	26.36	17	13.18	129
40 To 44	4	13.33	4	13.33	4	13.33	4	13.33	30
45 & above									1
Total	2227	46.06	1711	35.39	580	12.0	181	3.74	4835

Table 16 Percentage Distribution of Samples according to birthrate

Age Group/District	101	102	103	104	105	106	107	108	109	110	111	112	113	114	Total
Less than 12						1	2	1			2	5	1	1	
%						6.67	15.38	12.50			25.00	83.33	8.33	7.69	13
12 & Less than 16		2	1	2	1	1	6	3	2	4	2	1	4	8	
%		25.00	20.00	18.18	3.57	6.67	46.15	37.50	28.57	44.44	25.00	16.67	33.33	61.54	37
16 & Less than 20	1	2	2	3	1	4	3	2	1	5	3		5	4	
%	14.29	25.00	40.00	27.27	3.57	26.67	23.08	25.00	14.29	55.56	37.50		41.67	30.77	36
20 & Less than 24	4	1	2	2	6	4	2	1	2		1		2		
%	57.14	12.50	40.00	18.18	21.43	26.67	15.38	12.50	28.57		12.50		16.67		27
24 & Less than 28	1	1		1	6	3		1	2						
%	14.29	12.50		9.09	21.43	20.00		12.50	28.57						15
28 & Less than 32	1	2		1	11	1									
%	14.29	25.00		9.09	39.29	6.67									16
32 & Less than 36				2	1	1									
%				18.18	3.57	6.67									4
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	Male	Female	Total	Male	Female	Total	ELB+ESB	SB Rate
101	Kasaragod	3	3	6	277	277	554	25743	21.52
102	Kannur						0	27192	0.00
103	Wayanad						0	14654	0.00
104	Kozhikode		2	2		204	204	43420	4.70
105	Malappuram	1	2	3	69	138	207	88713	2.33
106	Palakkad	1	1	2	95	95	190	47403	4.01
107	Thrissur		2	2		211289	219	34126	6.42
108	Eranakulam		1	1			128	29164	4.39
109	Idukki						0	22492	0.00
110	Kottayam	2		2	232		232	28012	8.28
111	Alappuzha		1	1		122	122	25400	4.80
112	Pathanamthitta						0	10031	0.00
113	Kollam						0	35366	0.00
114	Thiruvananthapuram						0	33490	0.00
	Total	7	12	19	673	1183	1856	465208	3.99

Table 18A District wise Death Observed and Estimated

	District	Observed			Estimated		
		Male	Female	Total	Male	Female	Total
101	Kasaragod	26	31	57	2399	2860	5259
102	Kannur	51	22	73	5007	2159	7166
104	Kozhikode	49	37	86	5006	3780	8786
103	Wayanad	25	18	43	2261	1628	3889
105	Malappuram	134	104	238	9251	7180	16431
106	Palakkad	85	69	154	8107	6582	14689
107	Thrissur	83	87	170	9108	9546	18654
108	Eranakulam	46	35	81	5910	4496	10406
109	Idukki	37	27	64	3835	2799	6634
110	Kottayam	64	47	111	7439	5463	12902
111	Alappuzha	59	54	113	7170	6563	13733
112	Pathanamthitta	45	33	78	5310	3895	9205
113	Kollam	80	55	135	8982	6175	15157
114	Thiruvananthapuram	80	63	143	8320	6553	14873
	Total	864	682	1546	88105	69679	157784

Table 19 Age Specific Death Rate of State 2000

Age Group	Deaths			Population			Age Specific Death Rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	Below 1	3265	2842	6107	249718	246809	496527	13.07	11.51
1-4	914	1160	2074	943204	890285	1833489	0.97	1.30	1.13
5-9	429	102	531	1037118	999868	2036986	0.41	0.10	0.26
10-14	580	380	960	1140770	1097073	2237843	0.51	0.35	0.43
15-19	590	881	1471	1217668	1262898	2480566	0.48	0.70	0.59
20-24	991	1103	2094	1089188	1214648	2303836	0.91	0.91	0.91
25-29	1498	936	2434	978121	1177836	2155957	1.53	0.79	1.13
30-34	2152	1266	3418	898240	1033824	1932064	2.40	1.22	1.77
35-39	2724	1534	4258	816002	918727	1734729	3.34	1.67	2.45
40-44	2746	2625	5371	756210	836682	1592892	3.63	3.14	3.37
45-49	3608	1246	4854	659738	638783	1298521	5.47	1.95	3.74
50-54	6086	1925	8011	545046	579636	1124682	11.17	3.32	7.12
55-59	5550	2664	8214	401467	436090	837557	13.82	6.11	9.81
60-64	8721	5109	13830	361160	409745	770905	24.15	12.47	17.94
65-69	9186	7882	17068	283804	339724	623528	32.37	23.20	27.37
Above 70	39066	38023	77089	433810	527066	960876	90.05	72.14	80.23
	88106	69678	157784	11811264	12609694	24420958	7.46	5.53	6.46

Table 19A Estimation of Death

Age Group	Male	Female	Total
Below 1	3265	2842	6107
1-4	914	1160	2074
5-9	429	102	531
10-14	580	380	960
15-19	590	881	1471
20-24	991	1103	2094
25-29	1498	936	2434
30-34	2152	1266	3418
35-39	2724	1534	4258
40-44	2746	2625	5371
45-49	3608	1246	4854
50-54	6086	1925	8011
55-59	5550	2664	8214
60-64	8721	5109	13830
65-69	9186	7882	17068
Above 70	39066	38023	77089
	88106	69678	157784

Table 19B Estimation of Population

AgeGroup	Male	Female	Total
Below1	249718	246809	496527
1-4	943204	890285	1833489
5-9	1037118	999868	2036986
10-14	1140770	1097073	2237843
15-19	1217668	1262898	2480566
20-24	1089188	1214648	2303836
25-29	978121	1177836	2155957
30-34	898240	1033824	1932064
35-39	816002	918727	1734729
40-44	756210	836682	1592892
45-49	659738	638783	1298521
50-54	545046	579636	1124682
55-59	401467	436090	837557
60-64	361160	409745	770905
65-69	283804	339724	623528
Above70	433810	527066	960876
All Ages	11811264	12609694	24420958

Table 20 - Distribution of Death Estimated in Samples according to Age and Sex

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
Kasaragod	2399	277	0	0	0	0	0	0	277	0	0	185	92	185	554	277	552
	2860	369	277	0	185	0	0	0	92	92	185	0	0	277	92	923	368
	5259	646	277	0	185	0	0	0	369	92	185	185	92	462	646	1200	920
Kannur	5006	196	196	0	98	98	98	0	295	0	98	98	295	196	589	589	2160
	2160	98	0	0	0	0	0	0	295	196	98	0	0	0	295	98	1080
	7166	294	196	0	98	98	98	0	590	196	196	98	295	196	884	687	3240
Wayanad	2261	90	0	0	0	90	90	0	181	181	181	90	90	181	271	0	726
	1628	90	0	0	0	90	90	0	0	90	181	181	0	181	90	0	635
	3889	180	0	0	0	90	180	0	181	271	362	271	90	362	361	0	1361
Kozhikode	5006	306	0	102	0	0	0	0	102	204	204	204	715	204	613	613	1739
	3780	102	0	102	0	0	102	204	0	0	409	0	0	204	409	204	2044
	8786	408	0	204	0	0	102	204	102	204	613	204	715	408	1022	817	3783
Malappuram	9251	621	207	0	69	69	0	138	138	207	345	414	897	897	552	1726	2971
	7180	552	138	0	69	69	0	69	69	69	69	138	276	276	552	1450	3384
	16431	1173	345	0	138	138	0	207	207	276	414	552	1173	1173	1104	3176	6355
Palakkad	8108	191	191	95	95	95	0	95	0	477	191	572	382	382	954	763	3625
	6581	382	0	0	95	0	0	95	0	191	477	0	95	191	572	477	4006
	14689	573	191	95	190	95	0	190	0	668	668	572	477	573	1526	1240	7631
Thrissur	9107	110	0	0	0	0	0	329	110	110	329	329	219	988	658	988	4937
	9547	329	110	0	0	110	0	110	110	219	549	0	329	439	329	878	6035
	18654	439	110	0	0	110	0	439	220	329	878	329	548	1427	987	1866	10972
Eranakulam	5909	128	0	0	0	0	0	257	257	128	385	0	385	385	257	642	3085
	4497	257	0	0	0	0	128	128	128	0	0	128	0	128	385	257	2958
	10406	385	0	0	0	0	128	385	385	128	385	128	385	513	642	899	6043
Idukki	3835	311	104	0	0	0	104	104	0	104	207	415	207	311	415	415	1138
	2799	207	207	0	0	207	0	0	0	0	207	207	104	104	0	207	1349
	6634	518	311	0	0	207	104	104	0	104	414	622	311	415	415	622	2487

Table 20 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
Kottayam	Male	116	0	232	116	116	116	232	232	0	0	116	465	465	814	930	3489
	Female	0	116	0	0	116	116	0	0	0	116	116	232	232	349	581	3489
	Total	116	116	232	116	232	232	232	232	0	116	232	697	697	1163	1511	6978
Alappuzha	Male	486	0	0	0	122	122	0	122	122	486	0	243	365	608	608	3887
	Female	122	0	0	0	0	122	122	243	365	0	122	122	0	486	729	4129
	Total	13733	608	0	0	122	244	122	365	487	486	122	365	365	1094	1337	8016
Pathanamthitta	Male	0	0	0	0	0	236	118	118	118	0	0	590	118	826	354	2833
	Female	118	0	0	0	0	0	0	0	0	118	354	118	0	236	236	2714
	Total	9205	118	0	0	0	236	118	118	118	118	354	708	118	1062	590	5547
Kollam	Male	225	112	0	112	0	225	225	112	449	112	561	674	561	674	449	4491
	Female	112	0	0	112	0	337	0	225	0	112	0	337	112	898	1010	2920
	Total	15157	337	112	224	0	562	225	337	449	224	561	1011	673	1572	1459	7411
Thiruvananthapuram	Male	208	104	0	0	0	0	0	208	624	208	624	832	312	936	832	3433
	Female	104	312	0	104	104	208	208	104	312	104	0	312	520	416	832	2912
	Total	14873	312	416	104	104	208	208	312	936	312	624	1144	832	1352	1664	6345
State	Male	88106	3265	914	429	580	590	991	1498	2152	2724	2746	3608	6086	5550	8721	9186
	Female	2842	1160	102	380	881	1103	936	1266	1534	2625	1246	1925	2664	5109	7882	38023
	Total	157784	6107	2074	531	1471	2094	2434	3418	4258	5371	4854	8011	8214	13830	17068	77089

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

	District	Institutional	Qualified Medical Practitioner	Un-Qualified Medical Practitioner	No. of Treatment	Total
101	Kasaragod	44	11		2	57
102	Kannur	31	5		37	73
103	Wayanad	40			3	43
104	Kozhikode	79	5		2	86
105	Malappuram	123	65	49	1	238
106	Palakkad	45	39	24	46	154
107	Thrissur	72	84	1	13	170
108	Eranakulam	28	51	1	1	81
109	Idukki	25	5	1	33	64
110	Kottayam	61	39	5	6	111
111	Alappuzha	36	74		3	113
112	Pathanamthitta	71	1		6	78
113	Kollam	68	60		7	135
114	Thiruvananthapuram	104	30		9	143
	State	827	469	81	169	1546

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

AgeGroup	Total	101	102	103	104	105	106	107	108	109	110	111	112	113	114
1 & L.T 3	7	1		1	2	2			1						
%	4.70	14.29		20.00	18.18	7.41			12.50						
3 & L.T 5	40	3	3	2	5	12	3	3	2	3	1			1	2
%	26.85	42.86	37.50												
5 & L.T 7	47	2	4	1	3	8	5	1	1	2	3	3	2	6	0
%	31.54	28.57	50.00	20.00	27.27	29.63	33.33	7.69	12.50	28.57	33.3	37.50	33.33	50.00	46.15
7 & L.T 9	33	1		1	1	4	6	3	2	2	2	2	2	4	3
%	22.15	14.29		20.0	9.09	14.81	40.00	23.08	25.00	28.57	22.22	25.00	33.33	33.33	23.08
9 & L.T 11	19		1			1	1	4	2		3	2	2	1	2
%	12.75		12.50			3.70	6.67	30.77	25.00		33.33	25.00	33.33	8.33	15.38
11 & L.T 13	1											1			
%	0.67											12.20			
13 & L.T 15	1							1							
%	0.67							7.69							
15 & Above	1							1							
%	0.67							7.69							
	149	7	8	5	11	27	15	13	8	7	9	8	6	12	13

Note : Percentage to Total in each column

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

	Dist	Infant Death			Estimated Infant Death			Infant Mortality Rate		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
101	Kasaragod	3	4	7	277	369	646	22.24	28.98	25.65
102	Kannur	2	1	3	196	98	294	13.77	7.51	10.77
104	Kozhikode	3	1	4	306	102	408	14.47	4.62	9.44
103	Wayanad	1	1	2	90	90	180	12.28	12.28	12.28
105	Malappuram	9	8	17	621	552	1173	13.99	12.51	13.25
106	Palakkad	2	4	6	191	382	573	8.41	15.58	12.14
107	Thrissur	1	3	4	110	329	439	6.11	20.68	12.95
108	Ernakulam	1	2	3	128	257	385	8.66	18.02	13.26
109	Idukki	3	2	5	311	207	518	26.79	19.02	23.03
110	Kottayam	1		1	116	0	116	7.50	0.00	4.18
111	Alappuzha	4	1	5	486	122	608	35.08	10.68	24.05
112	Pathanamthitta		1	1	0	118	118	0.00	27.78	11.76
113	Kollam	2	1	3	225	112	337	12.85	6.23	9.50
114	Thiruvananth	2	1	3	208	104	312	11.98	6.45	9.32
	State	34	30	64	3265	2842	6107	13.80	12.52	13.17

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

District	1999						2000							
	<7days		<28days		<1Year		<7days		<28days		<1Year			
	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Female	Male	Fe- male	Male	Fe- male		
101 Kasaragod					1	2	3			0	0	2	2	4
102 Kannur					0			2	1	2	1	2	1	3
104 Kozhikode					0			1		1	1	1	1	2
103 Wayanad					0			2		2	0	3	1	4
105 Malappuram					0	1	1	5	3	5	6	9	7	16
106 Palakkad					0			1	2	2	2	2	4	6
107 Thrissur					0				2	0	2	1	3	4
108 Ernakulam					0			1	1	1	2	1	2	3
109 Idukki					0			1	1	1	2	3	2	5
110 Kottayam					1		1			0	0	0	0	
111 Alappuzha					2		2	2	1	2	1	2	1	3
112 Pathanamthitta					0				1	0	1	0	1	1
113 Kollam					0				1	0	1	2	1	3
114 Thiruvananthapuram					0					1	0	2	1	3
State					4	3	7	15	13	17	19	30	27	57

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

District	1999						2000							
	<7 days		<28 days		<1 Year		<7 days		<28 days		<1 Year			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Total	
Kasaragod		0	0	185	277	0	0	196	98	0	0	185	185	370
Kannur		0	0	0	0	196	98	196	98	196	98	196	98	294
Kozhikode		0	0	0	0	90	0	90	90	90	90	90	90	180
Wayanad		0	0	0	0	204	0	204	0	204	0	306	102	408
Malappuram		0	0	69	69	346	207	345	414	191	191	621	483	1104
Palakkad		0	0	0	0	96	191	191	191	191	191	191	382	573
Thrissur		0	0	0	0	0	219	0	219	0	219	110	329	439
Eranakulam		0	0	0	0	128	128	128	257	128	257	128	257	385
Idukki		0	0	0	0	104	104	104	207	104	207	311	207	518
Kottayam		116	116	0	116	0	0	0	0	0	0	0	0	0
Alappuzha		0	243	0	243	122	243	243	122	243	243	243	122	365
Pathanamthitta		0	0	0	0		118	0	118	0	118	0	118	118
Kollam		0	0	0	0		112	0	112	0	112	225	112	337
Thiruvananthapuram		0	0	0	0	0	0	104	0	104	0	208	104	312
State		116	452	254	1407	1299	1299	1606	1829	2815	2589	5404		

Table 26 Distribution of Perinatal neonatal and infant death according to sex

District	Less than 7 days			Less than 28 days			Less than 1 Year		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
101 Kasaragod	0	0	0	0	0	0	277	369	646
102 Kannur	196	98	294	196	98	294	196	98	294
103 Wayanad	90	0	90	90	90	180	90	90	180
104 Kozhikode	204	0	204	204	0	204	306	102	408
105 Malappuram	345	207	552	345	414	759	621	552	1173
106 Palakkad	95	191	286	190	191	381	190	382	572
107 Thrissur	0	219	219	0	219	219	110	329	439
108 Ernakulam	128	128	256	128	256	384	128	256	384
109 Idukki	104	104	208	104	208	312	311	208	519
110 Kottayam	0	0	0	116	0	16	116	0	116
111 Alappuzha	243	122	365	243	122	365	486	122	608
112 Pathanamthitta	0	118	118	0	118	118	0	118	118
113 Kollam	0	112	112	0	112	12	225	112	337
114 Thiruvananthapuram	0	0	0	104	0	104	208	104	312
State	1405	1299	2704	1720	1828	3548	3264	2842	6106

Table 27 - Birth and Death detected through Overlapping Survey 2000

District	Birth						Death					
	Total	Place			Kind		Total	Place			Kind	
		Pin	Pout	LB	SB	Din		Dout	InfD	OD		
Kasaragod	10	0	10	10	0	1	0	1	0	0	1	
Kannur	5	0	5	5	0	0						
Wayanad	16	1	15	16	0	1	0	1	0	0	1	
Kozhikkode	16	2	14	16	0	0						
Malappuram	26	0	26	25	1	1	1	0	0	0	1	
Palakkad	4	0	4	4	0	1	1	0	0	0	1	
Thrissur	11	0	11	11	0	4	1	3	1	1	3	
Eranakulam	3	0	3	3	0	1	1	0	0	0	1	
Idukki	6	0	6	6	0	0						
Kottayam	4	0	4	4	0	0						
Alappuzha	19	0	19	19	0	1	1	0	0	0	1	
Pathanamthitta	0	0				0						
Kollam	11	0	11	11	0	4	4	0	0	0	4	
Thiruvananthapuram	17	9	8	17	0	1	1	0	0	0	1	
Total	148	12	136	147	1	15	10	5	1	1	14	

Table 28A - Distribution of births recorded by Enumerator and Supervisors detected through overlapping survey and intensive enquiry - 2000

	Kasaragod	Kannur	Wayanad	Kozhikode	Malappuram	Palakkad	Thrissur	Eranakulam	Idukki	Kottayam	Alappuzha	Pathanamthitta	Kollam	Thiruvananthapuram	State Total
Common to Enumerator and Supervisor	133	174	108	334	943	375	168	119	168	173	150	71	160	211	3287
Registered by Enumerator	154	175	113	350	987	399	200	120	169	177	151	71	173	231	3470
%	56.41	62.95	69.75	82.74	76.99	80.61	64.72	53.10	77.88	74.06	72.60	83.53	54.75	71.74	71.77
Listed by Supervisor	242	270	141	391	1210	467	261	222	210	231	188	85	288	285	4491
%	88.64	97.12	87.04	92.43	94.38	94.34	84.47	98.23	96.77	96.65	90.38	100.00	91.14	88.51	92.89
Total metted by enumerator and Supervisor	263	271	146	407	1254	491	293	223	211	235	189	85	301	305	4674
Detected by Others	0	2	0	0	3	0	5	0	0	0	0	0	4	0	14
Overlapping Survey	10	5	16	16	25	4	11	3	6	4	19		11	17	147
Total	273	278	162	423	1282	495	309	226	217	239	208	85	316	322	4835

Table 28B - Distribution of Deaths recorded by Enumerator and Supervisors detected through overlapping survey and intensive enquiry - 2000

	Kasaragod	Kannur	Wayanad	Kozhikode	Malappuram	Palakkad	Thrissur	Ernakulam	Idukki	Kottayam	Alappuzha	Pathanamthitta	Kollam	Thiruvananthapuram	State Total
Common to Enumerator and Supervisor	35	58	28	71	181	112	100	68	56	92	108	77	105	112	1203
Registered by Enumerator	42	60	32	75	193	131	113	73	56	96	108	77	110	112	1278
%	73.68	82.19	74.42	87.21	81.09	85.06	66.47	90.12	87.50	86.49	95.58	98.72	81.48	78.32	82.66
Listed by Supervisor	49	71	39	81	225	132	150	75	64	107	112	78	126	142	1451
%	85.96	97.26	90.70	94.19	94.54	85.71	88.24	92.59	100.00	96.40	99.12	100.00	93.33	99.30	93.86
Total metted by enumerator and Supervisor	56	73	43	85	237	151	163	80	64	111	112	78	131	142	1526
Detected by Others	0	0	0	0	0	2	3	0	0	0	0	0	0	0	5
Overlapping Survey	1	0	0	1	1	1	4	1	0	0	1	0	4	1	15
Total	57	73	43	86	238	154	170	81	64	111	113	78	135	143	1546

Table 29 Distribution of rate of marriage /1000 population 2000

AGE Group	First		Remarriage		All	
	Male	Female	Male	Female	Male	Female
15to19	0.72	43.82	0.00	0.15	0.72	43.97
20to24	20.56	77.42	0.00	0.16	20.56	77.58
25to29	66.43	28.75	0.10	0.34	66.53	29.09
30to34	39.93	4.18	0.68	0.29	40.60	4.47
35to39	7.10	0.99	0.62	0.33	7.72	1.32
40to44	1.08	0.36	1.34	0.24	2.42	0.60
45to49	0.15	0.16	0.15	0.00	0.31	0.16
Total	20.35	27.03	0.36	0.23	20.71	27.26

Percentage Distribution of marriage according to age and sex 2000

Age Group	First		Remarriage		All	
	Male	Female	Male	Female	Male	Female
15to19	0.69	29.76	0.00	12.50	0.68	29.62
20to24	17.41	49.74	0.00	12.50	17.11	49.43
25to29	49.69	17.59	4.35	25.00	48.91	17.65
30to34	27.15	2.24	26.09	18.75	27.13	2.37
35to39	4.57	0.47	21.74	18.75	4.67	0.62
40to44	0.61	0.16	43.48	12.50	1.36	0.26
45to49	0.08	0.05	4.35	0.00	0.15	0.05
Total	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 2000

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
	1998	1999	2000								
1	2	3	4	5	6	7	8	9	10	11	12
below1	13.81	16.37	13.07	0.01442	0.01396	1396	100000	98797	6927600	69.28	0
1to4	0.45	0.24	0.97	0.00055	0.00220	217	98604	393982	6828803	69.25	1
5to9	0.47	0.19	0.41	0.00036	0.00180	177	98387	491493	6434821	65.40	5
10to14	0.45	0.38	0.51	0.00045	0.00225	221	98210	490498	5943328	60.52	10
15to19	0.64	1.08	0.48	0.00073	0.00364	357	97989	489053	5452830	55.65	15
20to24	0.94	0.7	0.91	0.00085	0.00424	414	97632	487125	4963777	50.84	20
25to29	1.75	1.76	1.53	0.00168	0.00836	813	97218	484058	4476652	46.05	25
30to34	1.85	2.11	2.4	0.00212	0.01054	1016	96405	479485	3992594	41.41	30
35to39	3.18	2.62	3.34	0.00305	0.01513	1443	95389	473338	3513109	36.83	35
40to44	4.16	4.77	3.63	0.00419	0.02073	1948	93946	464860	3039771	32.36	40
45to49	5.77	7.51	5.47	0.00625	0.03077	2831	91998	452913	2574911	27.99	45
50to54	10.09	12.24	11.17	0.01117	0.05433	4844	89167	433725	2121998	23.80	50
55to59	12.99	19.16	13.82	0.01532	0.07377	6221	84323	406063	1688273	20.02	55
60to64	30.22	32.61	24.15	0.02899	0.13515	10555	78102	364123	1282210	16.42	60
65to69	36.92	38.48	32.37	0.03592	0.16480	11132	67547	309905	918087	13.59	65
70& above	103.35	84.88	90.05	0.09276	1.00000	56415	56415	608182	608182	10.78	70

Table-31-Life Tables of Females based on Age specific Death rates for the year 2000

Age Group X to X+n	Age specific Death rate		Mean age specific Death rate(m_{mx})	Probability of person aged X Dying before age x+1 (q_x)	No of death (dx)	No. Surviving to ages out of 100000 born alive (l_x)	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	
	1998	1999									2000
1	2	3	4	5	6	7	8	9	10	11	12
below1	6.64	11.85	11.51	0.01000	0.01265	1265	100000	98848	7581526	75.82	0
1to4	0.79	0.51	1.3	0.00087	0.00347	343	98735	394254	7482678	75.79	1
5to9	0.11	0.41	0.1	0.00021	0.00105	103	98392	491703	7088424	72.04	5
10to14	0.6	0.34	0.35	0.00043	0.00215	211	98289	490918	6596721	67.12	10
15to19	0.37	0.44	0.7	0.00050	0.00250	245	98078	489778	6105803	62.25	15
20to24	0.85	1.15	0.91	0.00097	0.00484	474	97833	487980	5616025	57.40	20
25to29	1.25	0.6	0.79	0.00088	0.00439	427	97359	485728	5128045	52.67	25
30to34	1.16	1.04	1.22	0.00114	0.00568	551	96932	483283	4642317	47.89	30
35to39	0.64	1.17	1.67	0.00116	0.00578	557	96381	480513	4159034	43.15	35
40to44	1.17	1.76	3.14	0.00202	0.01005	963	95824	476713	3678521	38.39	40
45to49	2.14	2.67	1.95	0.00225	0.01119	1061	94861	471653	3201808	33.75	45
50to54	5.41	4.21	3.32	0.00431	0.02132	2000	93800	464000	2730155	29.11	50
55to59	5.29	6.07	6.11	0.00582	0.02868	2633	91800	452418	2266155	24.69	55
60to64	15.5	9.93	12.47	0.01263	0.06122	5459	89167	432188	1813737	20.34	60
65to69	20.07	24.61	23.2	0.02263	0.10709	8964	83708	396130	1381549	16.50	65
70& above	81.3	74.1	72.14	0.07585	1.00000	74744	74744	985419	985419	13.18	70

Table-32 - Life Tables of Persons based on Age specific Death rates for the year 2000

Age Group X to X+n	Age specific Death rate		Mean age specific Death rate(μ_{nx})	Probability of person aged X Dying before age X+1 (q_x)	No of death (d_x)	No. Surviving to age x out of 100000 born alive (l_x)	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	
	1998	1999									2000
1	2	3	4	5	6	7	8	9	10	11	12
below 1	10.31	14.19	12.3	0.01227	0.01332	1332	100000	98822	7243192	72.43	0
1 to 4	0.62	0.37	1.13	0.00071	0.00284	280	98668	394112	7144370	72.41	1
5 to 9	0.29	0.3	0.26	0.00028	0.00140	138	98388	491595	6750258	68.61	5
10 to 14	0.52	0.36	0.43	0.00044	0.00220	216	98250	490710	6258663	63.70	10
15 to 19	0.5	0.75	0.59	0.00061	0.00305	299	98034	489423	5767953	58.84	15
20 to 24	0.89	0.95	0.91	0.00092	0.00459	449	97735	487553	5278530	54.01	20
25 to 29	1.48	1.12	1.13	0.00124	0.00618	601	97286	484928	4790977	49.25	25
30 to 34	1.48	1.54	1.77	0.00160	0.00797	771	96685	481498	4306049	44.54	30
35 to 39	1.8	1.85	2.45	0.00203	0.01010	969	95914	477148	3824551	39.87	35
40 to 44	2.64	3.2	3.37	0.00307	0.01523	1446	94945	471110	3347403	35.26	40
45 to 49	3.95	5.13	3.74	0.00427	0.02112	1975	93499	462558	2876293	30.76	45
50 to 54	7.63	8.01	7.12	0.00759	0.03724	3408	91524	449100	2413735	26.37	50
55 to 59	9	12.42	9.81	0.01041	0.05073	4470	88116	429405	1964635	22.30	55
60 to 64	22.49	20.52	17.94	0.02032	0.09669	8088	83646	398010	1535230	18.35	60
65 to 69	27.79	30.91	27.37	0.02869	0.13385	10113	75558	352508	1137220	15.05	65
70 & above	91	78.97	80.23	0.08340	1.00000	65445	65445	784712	784712	11.99	70

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

District	Universe		Samples		Percentage Population	Raising factor for stratum estimated population P/P
	No. of Census Village	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
Eranakulam	89	1444059	8	11240	0.78	128.47500
Idukki	65	1027185	7	9910	0.96	103.64136
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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