



**Government of Kerala**

**Sample Registration of  
Births and Deaths  
In  
Kerala (Rural) 1995**

**Department of Economics & Statistics  
Thiruvananthapuram  
2000**



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## **Preface**

*The Ultimate objective of the introduction of the Sample Registration System at national and State level by the Registrar General of India is to avoid the problems involved in the functioning of Civil Registration System. The Sample Registration System was introduced in the State in 1964 beginning with 20 selected rural samples and at present the survey is being conducted in 150 rural samples of the state by this department.*

*The current report contains the results of the survey for the year 1995. The main contents of the reports are crude birth rate, death rate, Infant Mortality rate and the; details regarding population, marriage, sex ratio, life expectancy etc.*

*This report has been prepared under the guidance and direction of Sri. A. Meera Sahib, Additional Director (General). Sri. V. Ramachandran, Deputy Director (Vital Statistics) has supervise the preparation of this report. The tabulation work of the report has been done by Smt. M. Premakumaray (Computer Supervisor) and Smt. G. Santha, Compiler has prepared the tables.*

**U. Thomas Sleeba**

**Director**



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# *Sample Registration of Births and Deaths in Kerala Rural – 1995*

## **Chapter I**

### ***Introduction***

The sample Registration system is a dual recording system and provides reliable vital rates at the National and State level separately for rural and urban areas. The system was introduced for rectifying the problems involved in the civil Registration system and provides quite and reliable estimates of vital rates. The department of Economics and Statistics and the Census Department are the implementary agencies of the study in rural and urban areas. The Registrar General of India is giving necessary guidelines in this regard. This report pertaining to Sample Registration survey conducted in the 150 selected sample in the rural areas for the year 1995.

Initially this survey was started during 1964 as a pilot project in 20 rural areas and 5 urban. Sample units. However this system attained a full-fledged level in in 1965 with the coverage of 150 rural sample units in the state. The Director of census operation was in the charge of the work in the urban areas since 1970. The fieldwork of the survey was conducted in the selected 150 rural sample units in the State. Instead of the Stratum wise tables, district level tables have been incorporated in the survey report since 1995.

### ***Staff engaged in the survey***

150 part time enumerators were posted for the conduct of continuous enumeration survey in the respective sample units allotted to them. The half-yearly surveys in these 150 units were conducted by 17 statistical assistants / computer deputed from the Census Department. The additional District Officers (SR) working in the district offices have conducted revivification of both unmatched and partially matched events. One R.S.O., one R.A., two compilers and one computer from Census Department were attending the survey work in the Head office.

### ***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 a 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 result of each sample to district office soon after the completion of the fieldwork of the survey. After the matching process, the partially matched and unmatched events should be re-verified by the Additional District Officer (S.R) of the District Office.

### ***Overlapping Survey***

While conducting the half-yearly survey by supervisor, he should also collect the details of births and deaths of the last half-year in order to find out the missing event of that period. During the year under report 151 birth events and 35 death events were netted in the over lapping survey.

## **Chapter 2**

### ***Estimated population in Rural areas of Kerala***

#### **2.1. Population and its growth**

The rural population of Kerala was estimated as 22981646 on 01.07.95 and 23167905 on 01.01.96 recording an increase of 81% during the second half of 1995. District wise analysis shows that maximum numbers of population were in Malappuram with 3028581 in which the male and females break up were 1480014 and 1548567 respectively. Thiruvananthapuram district comes next with 2121469 numbers. However the lowest estimated population was in Wayanadu district with only 765773 numbers.

Comparative study of the estimated population of this year under report with last year shows some variation. This is due to the adoption of newly selected samples in the 60<sup>th</sup> round onwards and the size of population of these sample units are less than that of the samples used in the last year.

#### **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 with 1212 followed by 70 and above with 1175. But it was lowest in the age group of 5-9 age group having 931. Classification of population in terms of age group, it was highest in the age group of 10-14 with 10.6% and lowest in the age group of 65-69 with 2.6%

#### **2.3 Religion wise Population**

Classification of estimated population based on religion wise viz. Hindu, Muslim and Christian in the state was 12895297, 5696293 and 4390056 respectively. Out of the total population 56.11% were Hindus. District wise figures show that Hindu were maximum in Kollam followed by Thrissur. 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 Ernakulam.

## Chapter 3

### Measures of Fertility

#### 3.1. Fertility indicators

The primary components of Fertility is the crude death rate, Age specific fertility rate total fertility rate, and net reproduction rate are also components of fertility. Estimates of these rate are stated in this chapter.

Crude birth rate is 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 18.10.

District wise crude birth rate displayed that Malappuram was the highest among the districts with 23.02 followed by Kasaragod with 22.02. However the lowest crude birth rate was in Alappuzha district having only 13.78. Usually the crude birth rate in the southern region of the state was less than that of the northern region.

Table A1

#### Crude birth rate of Kerala and India (Rural) for the year 1985 to 1995

Year	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
B.R	23.2	22.6	21.5	19.9	20.2	19.6	18.4	17.6	17.5		18.1
B.R(I)	34.3	34.2	33.7	33.1	32.2	31.7	30.9	30.9	30.4	30.5	30.0

#### 3.2 Birth rate of neighbouring states (1995)

The birth rate of Kerala (rural) and neighbouring states are presented below

State	Rural	Rural and Urban combined
Andra Pradesh	24.8	24.2
Karnataka	25.1	24.1
Tamil Nadu	21.0	20.3
Kerala	18.1	18.0
All India	30.0	28.3

The above table shows that birth rate of Kerala is the lowest among the states with 18.1 and the second one is in Tamil Nadu with 21.0

### **3.3 Distribution of sample units under different rates**

The table represent the birth rate existing in the sample units out of the 150 sample units 38 numbers having the birth rate between 24 to 28 and 30 numbers having the same between 28 to 32 District wise figure shows that in Malappuram out of the 28 sample units, 6 units having more 44 and above birth rate. It is obvious that the high birth rate in Kerala is due to the occurrence of more births in the areas like this

### **3.4 Age specific Fertility rate**

It is defined as the number of live birth in a year to 1000 women of a specific age group. Table No.9 depicts the age specific fertility rate both district and state level. Age specific fertility rate was highest in the age group of 25 to 24 with 68.86 and followed by 20 to 24 with 66.8% District wise figure show that A.S.F.R was highest is Malappuram with 187.38 at the age group of 20-24, a more muslim belt populated district in the state. An overall picture of A.S.F.R showed that the same in all age group was highest in Malappuram and Kasargode district.

### **3.5 Age specific Marital Fertility rate.**

Age specific marital fertility rate can be delivered as the number of live births in an year to 1000 married woman of specific age group. Table 9 display the district level and state level marital fertility rate during the year under report. Marital fertility rate was highest in the age group of 20-24 with 267.96 followed by 15 to 19. In the age group of 20-24, M.F.R was highest in Thiruvananthapuram district with 456.52 and lowest in Eranakulam district with 157.72. While in the age group of 25 to 29, M.F.R was highest in Kottayam district with 315.17 and lowest in Kozhikode district with 222.82.

### **3.6 Number of Surviving children and children ever born in different age group.**

This table furnish the details regarding the number of surviving children and children ever born to the married woman who delivered births during the year under



report. It was seen that out of 4275 birth events, 1951 numbers were initial birth and 1500 numbers were second births.

### 3.7 General fertility rate.

The number of live births in an year to 1000 women in the reproductive age group 15-49 is defined as the G.F.R. General Fertility Rate of the State was 62.87 during the year. District wise figure shows that it was highest in Malappuram and lowest in Kollam. General Fertility rate from 1986 to 1995 in the State is as follows.

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

### 3.8 Total Fertility rate.

It is delivered as the average number of children that would be born to a woman during her lifetime: if she passes through the child bearing years conforming the age specific fertility rate of the year. Total fertility rate was presented in the table No.9. The State level total fertility rate was 1:8:6 during the year under report. The total fertility rate from 1986 to 1995 is stated below.

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

### 3.9 Gross reproduction rate.

It 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 production rate of the state during the year 1995 was 90 and the same from 1986 to 1995 is stated below.

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

### 3.10 Net Reproduction Rate.

Net production rate is the average number of female children that would be born to a woman during her life time conforming to the age group by corresponding proportion of survivors as per life table for female and ( $L_x/l_x$ ) then repeating the process in the gross reproduction rate. Net reproduction at the state from 1986 to 1995 is presented below.

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

### 3.11 Still birth rate.

Still birth rate is defined as the number of still births to 1000 births.(Both live births and still birth). Total number of still birth estimated during the year was 2582 in which the male and female classification were 1340 and 1242 respectively. Still births in district wise shows that it was maximum in Idukki with 415 followed by Kasargode with 369 while any still births was not reported from Pathanamthitta, Ernakulam and Wayanad districts. Still birth rate in the state during the year was 6.17.

### 3.12 Order of birth by age of mother.

Table 15 represents the percentage of distributors of order of birth according to the age of mother. Usually the birth order in the State is very less. 44.89% of the total births covered in the first birth order and 35.65% in the second birth order. It is obvious that most of Women in Kerala delivered only one or two child.

### 3.13 Birth by type of Medical attention received

This table relating to the details of medical attention received by the women during the delivery period. Out of the 4275 events, 4116 numbers had received institutional medical attention. That is 96.28% of delivery was happened in the medical institutions. All the births in Kollam, Idukki and Ernakulam districts were happened in the medical institution. Table No 14 present 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 1995.

Year	Institution	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

### 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 1995 is stated below

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

The table shows that Male birth is outnumbered that of female birth. District wise figure shows that the same was highest in Eranakulam and lowest in Pathanamthitta.

### 3.15 Child women ratio

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 293.

### 3.16 Comparison of vital rates under SRS and CRS

Civil Regulation System is the statutory system for collecting the details of vital events in the state and national level. However the functions of C.R.S is not in a full fledged level due to the existence of under registration .Sample registration provide cent percent reliability in data. So that the vital rates estimated in SRS has vital importance

than CRS. The vital rates estimated through CRS and SRS from 1986 onwards (rural) is stated below.

Year	Birth rates		Still birth rates	
	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	18.1	3.85	6.17

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

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

Table no.31 represent the rate of marriage and remarriage 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 18.19 and 19.76 respectively. Most of the marriage was occurred at the age of 25 to 29 to the males (50.32%) and 20 to 24 to females (46.84%). Usually the percentage of remarriage was very less in all age group.

## Chapter 4

### Mortality Measures

#### 4.1 Crude death rate

Death rate means 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. The estimated death rate of the state was 5.36 during the year. District wise figures shows that death rate was maximum in Pathanamthitta district with 9.20 followed by Alappuzha with 6.33 while the same was minimum in Malappuram district with 3.65 the most muslim density populated district in the state. Table no.1 present the death rated in the districts and state level.

#### 4.2 Death rate of neighbouring states

The death rate is in rural and both rural and urban of India and neighbouring states published by R.G of India during the year 1995 are given below.

State	Rural	Rural and Urban combined
Andra Pradesh	9.2	8.4
Karnataka	8.5	7.6
Tamil Nadu	8.8	8.0
Kerala	6.0	6.0
All India	9.8	9.0

Among the states, death rate for 1995 was lowest in Kerala and highest in Andra Pradesh. However the special features of Kerala was that the death rate both in rural and rural and urban combined were same in the state. It indicated that the death rate in rural and urban area of Kerala was same during the year 1995.

#### 4.3 Age specific death rate

It provide the details regarding the death occurred in the different age group of the people. Age at death has much importance in case of death. Out of 123082 estimated death events in the state, 60423 (49.09%) deaths were occurred at the age of 70 and above in which the classification of males and females was 30346 and 30077

respectively. Age group at 45 to 49 and above, the number of deaths was increasing continuously. District wise analysis present that maximum number of death estimated were in Thrissur district with 13058 followed by Thiruvananthapuram with 12376 numbers, The minimum number of death estimated were in Wayanadu district with 3618, followed by Kannur with 4712 numbers.

#### **4.4 Infant death rate**

Infant death means death of the children below one year age. Out of 1000 live birth in an year. The usual trend of infant mortality in the state is a decreasing one. I.M.R in the state during 1995 was 1423 number of infant deaths estimated during the year under report was 6007 in which the males and females division were 3209 and 2798 respectively.

Analyzing infant mortality the males were outnumbered with females. District wise figures shows that infant deaths was estimated maximum in Thiruvananthapuram with 936 numbers of which the males and females divisions were 520 and 416 respectively. Next it was maximum in Malappuram with 690 numbers while it was estimated minimum in Kollam district with 224 numbers, Any infant death was not reported from Idukki district. A comparative study between southern region and northern region, it was very less in the former one.

#### **4.5 Neo natal mortality rate**

It means the number of death 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 2.61 in the state.

#### **4.6 Peri natal mortality rate**

It is defined as the estimated numbers of deaths of infant below 7 days of age per 1000 live births in an year. The estimated perinatal mortality rate during the year was 6-84. The classification of infant mortality rate as perinatal, neo-natal and post natal is given in table No.28.

#### 4.7 Distribution of Samples according to death rate of each sample

This table furnish the details regarding the extend of death rate in sample wise. Death rate of 3 to 5 was in most of the samples. 46 samples were in the range of 3 to 5 death rate. Next of the same was 7 to 9 death rate which have 38 samples. However any sample has no death rate of 13 to 15 and 15 above.

#### 4 Medical attention received before death

The percentage distribution of deaths according to type of medical distribution of death according to type of medical attention received for the year 1985 to 1995 is stated below.

Year	Institiioal	Qualified medical practioner	Unqualified medical practioner	None
1985	49	23	11	17
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				
1995				

Table No 21 displays deaths classified by type of medical attention. Institutional deaths was predominated among the type of medical attention. Out of 1199 deaths events 610 numbers were occurred in institutions and 378 numbers in qualified medical practitioner.



#### 4.9 Comparison of rural mortality rate under Civil Registration System and SRS for the year from 1985 to 1995.

Following table displays the death rate and IMR noted both in C.R.S and SRS in the state. Usually the rate in CRS is lower than in SRS due to the outstanding of under registration in CRS and most of the events of the rural people were occurred in the urban area for obtain modern medical facilities.

#### MORTALITY RATE UNDER CRS AND SRS

Year	Death rate		Infant mortality rate	
	CRS	SRS	CRS	SRS
1985	4.0	6.6	9.1	33.0
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

CRS related to Rural only

It is obvious that both death rate and infant mortality rate in the rural areas are decreasing trends in the states.

#### 4.10 Expectation of life based on age specific death rated for the last three year

Generally the life expectancy of the people is very high in Kerala among the states in India. Table No. 30, 31, 32 pertaining to the life expectancy of males, females and both males and females in the rural area of Kerala. The life tables are prepared sex-wise and population wise separately based on the age specific death rates for the year 1993, 1994 and 1995. The expectation of life at birth for males, females and for both.

Sex together were calculated as 70.21, 76.59 and 73.26. The life expectancy of males are higher than that of females. The following table provides the life expectancy of rural people during the last 10 years.

**Expectation of life based on age specific death rates-1985-95**

Age specific death rates for the year	Males	Females	Both sex
1984 1985 1986	66.9	72.8	69.7
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	65.2	67.5
1993 1994 1995	70.2	76.6	73.3

**Table 1 – Mid year estimated Population, Vital events and Vital rates 1995**

District	Estimated Population and Vital events						Estimated vital rates			
	Population	Births	Deaths	Still births	Infant deaths	Birth rate	Death rate	Still birth rate	Infant death rate	
1	2	3	4	5	6	7	8	9	10	
Thiruvananthapuram	2121469	38377	12376	208	936	18.09	5.83	5.39	24.39	
Kollam	2102208	32559	11452	112	224	15.49	5.45	3.43	6.88	
Pathanamthitta	1064570	16757	9795	0	236	15.74	9.20	0.00	14.08	
Alappuzha	1517388	20903	9601	243	243	13.78	6.33	11.49	11.63	
Kottayam	1602783	26269	8718	232	465	16.39	5.44	8.75	17.70	
Idukki	1085851	20108	4768	415	0	18.52	4.39	20.22	0.00	
Eranakulam	1591677	28008	8865	0	386	17.60	5.57	0.00	13.78	
Thrissur	2081727	34785	13058	110	549	16.71	6.27	3.15	15.78	
Palakkad	2100940	39964	11159	286	382	19.02	5.31	7.11	9.56	
Malappuram	3028581	69727	11046	207	690	23.02	3.65	2.96	9.90	
Kozhikode	1744479	27585	8378	204	307	15.81	4.80	7.34	11.13	
Wayanadu	765773	14292	3618	0	543	18.66	4.72	0.00	37.99	
Kannur	1172809	24640	4712	196	492	21.01	4.02	7.89	19.97	
Kasaragod	1001391	22052	5536	369	554	22.02	5.53	16.46	25.12	
<b>State</b>	<b>22981646</b>	<b>416026</b>	<b>123082</b>	<b>2582</b>	<b>6007</b>	<b>18.10</b>	<b>5.36</b>	<b>6.17</b>	<b>14.44</b>	

**Table 2 – Sample Population and Estimated Population for each District**

District	Observed Population in Samples in each District			Estimated population for each District	
	As on 1-7-95	As on 1-1-96	As on 1-7-95	As on 1-1-96	As on 1-1-96
1	2	3	4	5	
Thiruvananthapuram	20398	20504	2121469	2132494	
Kollam	18724	18712	2102208	2100861	
Pathanamthitta	9021	9257	1064570	1092421	
Alappuzha	12486	12469	1517388	1515322	
Kottayam	13789	13882	1602783	1613593	
Idukki	10476	10570	1085851	1095595	
Eranakulam	12389	12588	1591677	1617243	
Thrissur	18971	18955	2081727	2079971	
Palakkad	22027	22335	2100940	2130317	
Malappuram	43869	44044	3028581	3040662	
Kozhikode	17075	17241	1744479	1761439	
Wayanad	8466	8584	765773	776446	
Kannur	11947	12224	1172809	1200001	
Kasaragod	10853	10963	1001391	1011540	
<b>State</b>	<b>230491</b>	<b>232328</b>	<b>22981646</b>	<b>23167905</b>	

**Table 3 – District wise Population according to Sex 1995**

District	Observed Population			Estimated population		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
Thiruvananthapuram	9910	10488	20398	1030677	1090792	2121469
Kollam	9131	9593	18724	1025169	1077039	2102208
Pathanamthitta	4300	4721	9021	507444	557126	1064570
Alappuzha	6076	6410	12486	738399	778989	1517388
Kottayam	6881	6908	13789	799822	802961	1602783
Idukki	5228	5248	10476	541889	543962	1085851
Eranakulam	6210	6179	12389	797830	793847	1591677
Thrissur	8960	10011	18971	983199	1098528	2081727
Palakkad	10550	11477	22027	1006261	1094679	2100940
Malappuram	21438	22431	43869	1480014	1548567	3028581
Kozhikode	8357	8718	17075	853799	890680	1744479
Wayanad	4188	4278	8466	378816	386957	765773
Kannur	5726	6221	11947	562108	610701	1172809
Kasaragod	5286	5567	10853	487732	513659	1001391
<b>State</b>	<b>112241</b>	<b>118250</b>	<b>230491</b>	<b>11193159</b>	<b>11788487</b>	<b>22981646</b>

**Table 4 – Mid year sample population and estimated population according to age and sex 1995**

Age group	Observed population			Estimated Population		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
0 – 1	2003	1997	4000	193253	193425	386678
1 – 4	8257	7783	16040	802951	754732	1557683
5 – 9	11258	10458	21716	1089526	1014174	2103700
10 – 14	12728	12298	25026	1239406	1197896	2437302
15 – 19	11740	12707	24447	1153585	1243022	2396607
20 – 24	10859	11963	22822	1081162	1194845	2276007
25 – 29	9224	11251	20475	931113	1128966	2060079
30 – 34	8132	8811	16943	823348	885412	1708760
35 – 39	7830	9073	16903	791857	914182	1706039
40 – 44	6340	6251	12591	642469	632291	1274760
45 – 49	6028	6075	12103	611805	618340	1230145
50 – 54	4119	4298	8417	418558	435502	854060
55 – 59	3828	4101	7929	392519	420180	812699
60 – 64	3415	3686	7101	349003	375812	724815
65 – 69	2694	3052	5746	278107	316133	594240
70 +	3786	4446	8232	394497	463575	858072
<b>Total</b>	<b>112241</b>	<b>118250</b>	<b>230491</b>	<b>11193159</b>	<b>11788487</b>	<b>22981646</b>

**Table 5 – Sex ratio and percentage distribution of population by age group 1981, 1994 & 1995**

Age group	1981		1994		1995	
	Sex ratio 2	Percentage population 3	Sex ratio 4	Percentage population 5	Sex ratio 6	Percentage population 7
1						
0-4	978	10.8	947	9.88	952	8.5
5-9	975	11.5	984	9.70	931	9.2
10-14	984	12.8	980	9.79	967	10.6
0-14	979	35.4	970	29.37	950	28.2
15-19	1092	11.7	1006	10.19	1078	10.4
20-24	1094	10.1	1194	10.52	1105	9.9
25-29	1086	8.1	1178	9.32	1212	9.0
30-34	1008	6.0	1123	7.63	1075	7.4
35-39	1089	5.5	1107	6.71	1154	7.4
40-44	1022	4.4	1084	5.57	984	5.5
45-49	1035	4.6	1104	4.66	1011	5.4
50-54	996	4.4	1065	3.88	1040	3.7
55-59	992	2.9	1177	3.47	1070	3.5
60-64	1039	2.7	1120	2.90	1077	3.2
65-69	1123	2.1	1158	2.24	1137	2.6
70+	1159	2.8	1261	3.54	1175	3.7
<b>All</b>	<b>1020</b>	<b>100.0</b>	<b>1076</b>	<b>100.00</b>	<b>1053</b>	<b>100.0</b>



**Table 6 – Religion wise sample population and estimated population for each District**

District	Observed Population				Estimated population			
	Hindu	Christian	Muslim	Total	Hindu	Christian	Muslim	Total
1	2	3	4	5	6	7	8	9
Thiruvananthapuram	13643	5145	1610	20398	1418924	535099	167446	2121469
Kollam	13868	1772	3084	18724	1557009	198948	346251	2102208
Pathanamthitta	4169	4681	171	9021	491985	552406	20179	1064570
Alappuzha	8111	3436	939	12486	985707	417567	114114	1517388
Kottayam	6989	5957	843	13789	812376	692420	97987	1602783
Idukki	5104	4254	1118	10476	529036	440933	115882	1085851
Eranakulam	4508	5369	2512	12389	579166	689782	322729	1591677
Thrissur	13446	2528	2997	18971	1475457	277403	328867	2081727
Palakkad	15268	797	5962	22027	1456265	76018	568657	2100940
Malappuram	13810	619	29440	43869	953400	42734	2032447	3028581
Kozhikode	11017	290	5768	17075	1125559	29628	589292	1744479
Wayanad	4774	1539	2153	8466	431821	139207	194745	765773
Kannur	4891	2608	4448	11947	480138	256021	436650	1172809
Kasaragod	6486	454	3913	10853	598454	41890	361047	1001391
<b>State</b>	<b>126084</b>	<b>39449</b>	<b>64958</b>	<b>230491</b>	<b>12895297</b>	<b>4390056</b>	<b>5696293</b>	<b>22981646</b>

**Table 7 – District wise Live births observed in samples and estimates according to Sex in 1995**

Districts	Observed in samples			Sex ratio At birth	Estimated		
	Male	Female	Total		Male	Female	Total
1	2	3	4	5	6	7	8
Thiruvanantha-puram	183	186	369	98.39	19032	19345	38377
Kollam	151	139	290	108.63	16953	15606	32559
Pathanamthitta	61	81	142	75.31	7198	9559	16757
Alappuzha	92	80	172	115.00	11181	9722	20903
Kottayam	113	113	226	100.00	13134	13135	26269
Idukki	103	91	194	113.19	10676	9432	20108
Eranakulam	120	98	218	122.45	15417	12591	28008
Thrissur	146	171	317	85.38	16021	18764	34785
Palakkad	215	204	419	105.39	20507	19457	39964
Malappuram	527	483	1010	109.11	36382	33345	69727
Kozhikode	144	126	270	114.29	14712	12873	27585
Wayanad	81	77	158	105.19	7327	6965	14292
Kannur	137	114	251	120.18	13449	11191	24640
Kasaragod	121	118	239	102.54	11164	10888	22052
<b>State</b>	<b>2194</b>	<b>2081</b>	<b>4275</b>	<b>105.43</b>	<b>213153</b>	<b>202873</b>	<b>416026</b>

**Table 8 – Estimated number of total Women, Married women and Live births in different reproductive age groups 1995**

District	Age group of women											
	15-19			20-24			25-29			30-34		
	A	B	C	A	B	C	A	B	C	A	B	C
I	2	3	4	5	6	7	8	9	10	11	12	13
Thiruvananthapuram	104524	4784	2184	110452	58138	17473	109828	91315	13416	89131	81227	4264
Kollam	110477	3031	1010	113059	50972	13922	108905	91054	14034	82521	75560	2807
Pathanamthitta	48502	708	118	50862	21124	6018	47676	42366	8261	40478	38235	1652
Alappuzha	75590	1337	243	79600	29653	7778	77048	60885	9236	61128	56389	3646
Kottayam	69277	1162	233	75786	29873	9415	79157	64627	12902	66487	61838	3022
Idukki	57008	4561	726	61362	29230	8499	55039	45296	8084	44259	40328	2280
Eranakulam	83637	2441	385	85436	32119	9764	79141	65522	13105	62595	58713	3469
Thrissur	99966	4938	1426	112475	67046	15582	99637	82409	13168	86798	77690	3511
Palakkad	122754	20507	4578	110260	66289	18600	103583	86319	12781	75255	63619	3052
Malappuram	196755	53504	13669	151053	110045	28305	136279	114601	16707	108595	93200	7318
Kozhikode	94912	12362	3474	87454	56395	12566	98692	88271	9706	62730	55272	1226
Wayanad	47488	5608	1809	45046	25960	7327	34824	29668	3709	29216	25869	1086
Kannur	70681	11486	2945	58115	38973	10209	53207	48004	7952	40249	36715	2847
Kasaragod	61451	10795	2768	53885	32294	8212	45950	37553	7843	34970	30172	2399
State	1243022	137224	35568	1194846	648111	173670	1128966	947890	150904	885412	795027	42579
State (female birth)			18632			79827			77746			20340

A – Estimated No. of total women; B – Estimated No. of married women; C – Estimated No. of live birth in different reproductive age group

Contd..

*Table 8 – Estimated number of total Women, Married women and Live births in different reproductive age groups 1995 (contd.)*

District	35-39			40-44			45-49			Total		
	A	B	C	A	B	C	A	B	C	A	B	C
	1	14	15	16	17	18	19	20	21	22	23	24
Thiruvananthapuram	89339	78627	832	62506	53458	208	55538	44202	-	621318	411751	38377
Kollam	83195	75448	674	62873	54004	112	58494	49513	-	619524	399582	32559
Pathanamthitta	45080	42484	590	36347	33515	-	35285	30801	118	304230	209233	16757
Alappuzha	64409	58090	-	47882	42656	-	43993	38524	-	449650	287534	20903
Kottayam	64279	59048	581	49517	45565	116	46262	39985	-	450765	302098	26269
Idukki	49649	44155	415	33998	30370	-	31925	26431	104	333240	220571	20108
Ernakulam	68606	63338	1156	42011	38543	129	42911	37258	-	465337	297934	28008
Thrissur	83945	74289	988	59145	49599	-	62767	49928	110	604733	405899	34785
Palakkad	72394	64000	763	53890	42635	95	57419	44352	95	595555	387721	39964
Malappuram	107836	94581	3107	72627	58405	483	60821	46324	138	833966	570660	39727
Kozhikode	74274	67532	511	42501	34021	102	49653	38925	-	510216	352778	27585
Wayanad	30121	27679	181	19538	16281	90	17005	12754	90	223238	143819	14292
Kannur	45255	39856	589	26112	20419	98	30432	23855	-	324051	219308	24640
Kasaragod	35800	29249	738	23344	19561	92	25835	19653	-	281235	179277	22052
State	914182	818376	11125	632291	539032	1525	618340	502505	655	6617058	4388165	416026
State (female births)			5525			590			213			202870

**Table 9 – Age specific fertility rate, age specific marital fertility rate, GFR, TFR and GRR**

District	Age Group of Mother											
	15-19			20-24			25-29			30-34		
	ASFR	ASMFR		ASFR	ASMFR		ASFR	ASMFR		ASFR	ASMFR	
I	2	3	4	5	6	7	8	9				
Thiruvananthapuram	20.89	456.52	158.20	300.54	122.15	146.92	47.84	52.49				
Kollam	9.14	333.22	123.14	273.13	128.86	154.13	34.02	37.15				
Pathanamthitta	2.43	166.67	118.32	284.89	173.27	194.99	40.81	43.21				
Alappuzha	3.21	181.75	97.71	262.30	119.87	151.70	59.65	64.66				
Kottayam	3.36	200.52	124.23	315.17	162.99	199.64	45.45	48.87				
Idukki	12.74	159.18	138.51	290.76	146.88	178.47	51.51	56.26				
Eranakulam	4.60	157.72	114.28	303.99	165.59	200.01	54.55	59.08				
Thrissur	14.26	288.78	138.54	232.41	132.16	159.79	40.45	45.19				
Palakkad	37.29	223.24	168.69	280.59	123.39	148.07	40.56	47.97				
Malappuram	69.47	255.48	187.38	257.21	122.59	145.78	67.39	78.52				
Kozhikode	36.60	281.02	143.69	222.82	98.35	109.96	19.54	22.18				
Wayanad	38.09	322.57	162.66	282.24	106.51	125.02	37.17	41.98				
Kannur	41.67	256.40	175.67	261.95	149.45	165.65	70.73	77.54				
Kasaragod	45.04	256.42	152.40	254.29	170.69	208.85	68.60	79.51				
<b>State (All births)</b>	<b>28.61</b>	<b>259.20</b>	<b>145.35</b>	<b>267.96</b>	<b>133.67</b>	<b>159.20</b>	<b>48.09</b>	<b>53.56</b>				
<b>State (Female births)</b>	<b>14.99</b>		<b>66.81</b>		<b>68.86</b>		<b>22.97</b>					

Contd..

Table 9 – Age specific fertility rate, age specific marital fertility rate, GFR, TFR and GRR (Contd..)

District	Age Group of Mother										GFR	TFR	GRR
	35-39			40-44			45-49						
	ASFR	ASMFR	ASFR	ASFR	ASMFR	ASFR	ASFR	ASFR	ASMR				
I	10	11	12	13	14	15					16	17	18
Thiruvananthapuram	9.31	10.58	3.33	3.89	0.00	0.00					61.77	1.81	
Kollam	8.11	8.93	1.78	2.07	0.00	0.00					52.55	1.53	
Pathanamthitta	13.09	13.89	0.00	0.00	3.34	3.83					55.08	1.76	
Alappuzha	0.00	0.00	0.00	0.00	0.00	0.00					46.49	1.40	
Kottayam	9.04	9.84	2.34	2.55	0.00	0.00					58.28	1.74	
Idukki	8.36	9.40	0.00	0.00	3.26	3.93					60.34	1.81	
Ernakulam	16.85	18.25	3.06	3.35	0.00	0.00					60.19	1.79	
Thrissur	11.77	13.30	0.00	0.00	1.75	2.20					57.52	1.69	
Palakkad	10.54	11.92	1.76	2.23	1.65	2.14					67.10	1.92	
Malappuram	28.81	32.85	6.65	5.27	2.27	2.98					83.61	2.42	
Kozhikode	6.88	7.57	2.40	3.00	0.00	0.00					54.07	1.54	
Wayanad	6.01	6.54	4.61	5.53	5.29	7.06					64.02	1.80	
Kannur	13.02	14.78	3.75	4.80	0.00	0.00					76.04	2.27	
Kasaragod	20.61	25.23	3.94	4.70	0.00	0.00					78.41	2.31	
<b>State (All births)</b>	<b>12.17</b>	<b>13.59</b>	<b>2.41</b>	<b>2.83</b>	<b>1.06</b>	<b>1.30</b>					<b>62.87</b>	<b>1.86</b>	
<b>State (Female births)</b>	<b>6.04</b>		<b>0.93</b>		<b>0.34</b>							<b>0.90</b>	

**Table 10 – Distribution of currently married women observed according to age and number of surviving children 1995**

Age group of mother	No. of surviving children									Total
	1	2	3	4	5	6	7 & above	Total		
1										
2		3	4	5	6	7	8		9	
15-19	383	29	2						414	
20-24	1018	658	129	13	2				1820	
25-29	512	605	234	98	17	8	4		1478	
30-34	73	146	109	41	24	17	10		420	
35-39	13	28	23	18	12	17	9		120	
40-44	3	2	2	1	3	3	3		17	
45-49	-	-	1		2		3		6	
<b>Total</b>	<b>2002</b>	<b>1468</b>	<b>500</b>	<b>171</b>	<b>60</b>	<b>45</b>	<b>29</b>		<b>4275</b>	

**Table 11 – Distribution of currently married women observed in samples according to age and children ever born 1995**

Age group	Number of children ever born										Total
	1	2	3	4	5	6	7 & above	Total			
1	2	3	4	5	6	7	8	9			
15-19	376	36	2	-	-	-	-	-	-	414	
20-24	1009	665	131	13	2	-	-	-	-	1820	
25-29	487	617	245	100	17	8	4	-	-	1478	
30-34	63	152	109	43	24	18	11	-	-	420	
35-39	13	28	23	18	12	17	9	-	-	120	
40-44	3	2	2	1	3	3	3	-	-	17	
45-49	-	-	1	-	2	-	3	-	-	6	
<b>Total</b>	<b>1951</b>	<b>1500</b>	<b>513</b>	<b>175</b>	<b>60</b>	<b>46</b>	<b>30</b>	<b>9</b>	<b>4275</b>		



**Table 12 – Distribution of currently married women observed in samples according to age of mother and age of the last child 1995**

Age group	Age of last child (in months)											Total
	0-14	15-29	30-44	45-59	60-74	75-89	90-104	105-119	120-134			
1	2	3	4	5	6	7	8	9	10			11
15-19	376	28	7	2	1	-	-	-	-			414
20-24	1034	373	227	104	68	8	3	1	2			1820
25-29	538	245	259	173	166	49	28	10	10			1478
30-34	92	54	69	57	71	25	20	9	23			420
35-39	20	14	19	19	16	9	4	8	11			120
40-44	3	1	1	-	3	3	1	3	2			17
45-49	-	1	-	1	2	-	-	2	-			6
<b>Total</b>	<b>2063</b>	<b>716</b>	<b>582</b>	<b>356</b>	<b>327</b>	<b>94</b>	<b>56</b>	<b>33</b>	<b>48</b>			<b>4275</b>

**Table 13 – Live births observed in samples classified by month of occurrence 1995**

District	Number of live births reported from samples												Total
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Thiruvananthapuram	32	27	22	28	34	31	35	33	41	26	29	31	369
Kollam	17	18	21	33	33	26	30	24	23	20	26	19	290
Pathanam-thitta	11	10	11	8	13	9	9	11	20	13	15	12	142
Alappuzha	13	16	19	19	20	18	12	6	19	18	7	5	172
Kottayam	14	18	24	25	15	13	24	13	20	23	22	15	226
Idukki	15	17	22	16	15	17	10	12	15	11	19	25	194
Eranakulam	8	12	24	13	17	22	27	25	14	17	22	17	218
Thrissur	29	20	31	25	27	19	29	26	29	24	33	25	317
Palakkad	32	36	31	37	39	35	23	30	35	43	40	38	419
Malappuram	86	78	89	98	105	93	68	78	64	81	73	97	1010
Kozhikode	15	21	19	25	32	21	22	23	21	25	20	26	270
Wayanad	17	12	15	15	15	21	11	17	10	6	15	4	158
Kannur	14	14	25	25	20	20	24	30	14	24	24	17	251
Kasaragod	14	11	21	29	22	27	21	13	27	23	19	12	239
<b>State</b>	<b>317</b>	<b>310</b>	<b>374</b>	<b>396</b>	<b>407</b>	<b>372</b>	<b>345</b>	<b>341</b>	<b>352</b>	<b>354</b>	<b>364</b>	<b>343</b>	<b>4275</b>

**Table 14 – Live births observed in samples by type of medical attention at delivery**

Stratum	Type of medical attention						Total
	Institutional	Trained professional	Untrained professional	Non professional	Not stated		
1	2	3	4	5	6	7	
Thiruvananthapuram	367	1	-	1	-	369	
Kollam	290	-	-	-	-	290	
Pathanamthitta	134	8	-	-	-	142	
Alappuzha	165	7	-	-	-	172	
Kottayam	223	2	1	-	-	226	
Idukki	194	-	-	-	-	194	
Ernakulam	218	-	-	-	-	218	
Thrissur	314	3	-	-	-	317	
Palakkad	412	6	1	-	-	419	
Malappuram	939	52	19	-	-	1010	
Kozhikode	269	1	-	-	-	270	
Wayanad	149	2	7	-	-	158	
Kannur	240	11	-	-	-	251	
Kasaragod	202	18	19	-	-	239	
State	4116	111	47	1	-	4275	

**Table 15 – Percentage distribution of births by age of mother and order of births of child**

Age group	Order of births							Total
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 & above	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
15-19	92.76	6.76	0.48	0.00	0.00	0.00	0.00	100.00
20-24	54.12	37.69	7.42	0.66	0.05	0.06	0.00	100.00
25-29	31.94	42.35	17.05	6.63	1.22	0.54	0.27	100.00
30-34	14.52	36.67	25.95	10.71	5.95	3.10	3.10	100.00
35-39	11.67	22.50	20.00	14.17	8.33	15.00	8.33	100.00
40-44	17.65	11.76	11.76	5.88	17.65	17.65	17.65	100.00
45-49	0.00	16.67	16.67	0.00	33.33	0.00	33.33	100.00
<b>All ages</b>	<b>44.89</b>	<b>35.65</b>	<b>12.28</b>	<b>4.05</b>	<b>1.38</b>	<b>1.00</b>	<b>0.75</b>	<b>100.00</b>

**Table 16 – Distribution of samples according to birth rate of each sample**

District	Birth Rate																						
	Less than 12		12 & less than 16		16 & less than 20		20 and less than 24		24 & less than 28		28 & less than 32		32 & less than 36		36 & less than 40		40 & less than 44		44 & above		Total		
	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	No	%	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	
Thiruvananthapuram	-	-	1	5	-	-	1	7.69	4	30.77	4	30.77	-	-	3	23.08	-	-	-	-	-	13	100.00
Kollam	-	-	-	7.69	3	25.00	3	25.00	3	25.00	2	16.67	1	8.33	-	-	-	-	-	-	-	12	100.00
Pathanamthitta	-	-	-	-	-	-	3	50.00	2	33.33	1	16.67	-	-	-	-	-	-	-	-	-	6	100.00
Alappuzha	-	-	-	-	4	50.00	1	12.50	2	25.00	1	12.50	-	-	-	-	-	-	-	-	-	8	100.00
Kottayam	-	-	-	-	2	22.22	-	-	5	55.56	2	22.22	-	-	-	-	-	-	-	-	-	9	100.00
Iddukki	-	-	-	-	-	-	2	28.57	2	28.57	1	14.29	1	14.29	-	-	-	1	14.29	-	-	7	100.00
Eranakulam	-	-	-	-	1	12.50	1	12.50	2	25.00	2	25.00	1	12.50	1	12.50	-	-	-	-	-	8	100.00
Thrissur	-	-	-	-	4	30.77	3	23.08	2	15.38	3	23.08	-	-	-	-	-	1	7.69	-	-	13	100.00
Palakkad	-	-	-	-	-	-	3	20.00	6	40.00	3	20.00	2	13.33	1	6.67	-	-	-	-	-	15	100.00
Malappuram	-	-	-	-	-	-	1	3.57	2	7.14	5	17.86	7	25.00	3	10.71	4	14.29	6	21.43	28	100.00	
Kozhikode	-	-	-	-	2	18.18	3	27.27	4	36.37	1	9.09	1	9.09	-	-	-	-	-	-	-	11	100.00
Wayanad	-	-	-	-	-	-	-	-	2	40.00	1	20.00	1	20.00	1	20.00	-	-	-	-	-	5	100.00
Kannur	-	-	-	-	-	-	1	12.50	1	12.50	3	37.50	2	25.00	-	-	-	-	-	1	12.50	8	100.00
Kasaragod	-	-	-	-	-	-	-	-	1	14.29	1	14.29	2	28.57	2	28.57	-	-	-	1	14.29	7	100.01
<b>State (1995)</b>	-	-	1	0.67	16	10.67	22	14.67	38	25.33	30	20.00	18	12.00	11	7.33	6	4.00	8	5.33	150	100.00	
<b>State (1994)</b>	29	19.33	65	43.33	36	24.00	14	9.34	3	2.00	1	0.67	2	1.33	-	-	-	-	-	-	150	100.00	
<b>State (1993)</b>	21	14.00	46	30.67	43	28.67	28	18.67	6	4.00	4	2.66	2	1.33	-	-	-	-	-	-	150	100.00	

**Table 17 – Still Births observed in samples and estimated according to sex and still birth rates**

Stratum	Still births observed			Still births estimated			Total estimated no. of live births and still births	Still birth rate
	Male	Female	Total	Male	Female	Total		
1	2	3	4	5	6	7	8	9
Thiruvananthapuram	2	-	2	208	-	208	38585	5.39
Kollam	-	1	1	-	112	112	32671	3.43
Pathanamthitta	-	-	-	-	-	0	16757	0.00
Alappuzha	2	-	2	243	-	243	21146	11.49
Kottayam	1	1	2	116	116	232	26501	8.75
-Iddukki	2	2	4	207	208	415	20523	20.22
Eranakulam	-	-	-	-	-	0	28008	0.00
Thrissur	1	-	1	110	-	110	34895	3.15
Palakkad	1	2	3	95	191	286	40250	7.11
Malappuram	1	2	3	69	138	207	69934	2.96
Kozhikode	1	1	2	102	102	204	27789	7.34
Wayanad	-	-	-	-	-	0	14292	0.00
Kannur	1	1	2	98	98	196	24836	7.89
Kasaragod	1	3	4	92	277	369	22421	16.46
<b>State</b>	<b>13</b>	<b>13</b>	<b>26</b>	<b>1340</b>	<b>1242</b>	<b>2582</b>	<b>418608</b>	<b>6.17</b>

**Table 18 – District wise deaths observed on samples and estimated according to sex**

District	Observed		Estimated		Total	Male	Female	Total	Male	Female	Total
	Male	Female	Male	Female							
1	2	3	4	5	7						
Thiruvananthapuram	77	42	119	888	12376						
Kollam	54	48	102	6063	11452						
Pathanamthitta	45	38	83	5311	9795						
Alappuzha	43	36	79	5226	9601						
Kottayam	38	37	75	4417	8718						
Idukki	21	25	46	2177	4768						
Eranakulam	38	31	69	4882	8865						
Thrissur	72	47	119	7901	13058						
Palakkad	64	53	117	6104	11159						
Malappuram	91	69	160	6282	11046						
Kozhikode	51	31	82	5211	8378						
Wayanadu	21	19	40	1899	3618						
Kannur	31	17	48	3043	4712						
Kasaragod	35	25	60	3229	5536						
<b>State</b>	<b>681</b>	<b>518</b>	<b>1199</b>	<b>69753</b>	<b>123082</b>						

**Table 18 (a) – Distribution of death observed in samples according to age and sex 1995**

Age group	Thiruvananthapuram			Kollam			Pathanamthitta			Alappuzha			Kottayam		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Below 1	5	4	9	1	1	2	2	0	2	2	0	2	0	4	4
1-4	1	1	2	0	2	2	0	0	0	0	0	0	0	1	1
5-9	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	1	0	1	0	0	-	0	1	1	1	0	1	0	0	-
20-24	-	2	2	-	1	1	-	1	1	-	-	-	1	2	3
25-29	2	0	2	4	1	5	1	0	1	1	-	1	-	1	1
30-34	1	2	3	3	1	4	-	-	-	-	2	2	1	2	3
35-39	6	1	7	-	1	1	1	-	1	1	1	2	1	1	2
40-44	2	-	2	-	3	3	1	-	1	3	-	3	1	1	2
45-49	8	1	9	2	2	4	1	1	2	1	-	1	3	1	4
50-54	1	1	2	4	2	6	3	1	4	-	1	1	4	1	5
55-59	2	4	6	2	6	8	3	1	4	3	1	4	5	1	6
60-64	6	1	7	5	3	8	2	6	8	2	2	4	2	1	3
65-69	8	2	10	6	5	11	5	9	14	5	2	7	3	3	6
70 & above	32	23	55	27	20	47	26	18	44	24	27	51	17	18	35
All	77	42	119	54	48	102	45	38	83	43	36	79	38	37	75

Contd..



Table 18 (a) – Distribution of death observed in samples according to age and sex 1995 (Contd..)

Age group	Idukki			Eranakulam			Thrissur			Palakkad			Malappuram		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Below 1	0	0	0	1	2	3	4	1	5	3	1	4	4	6	10
1-4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	0	1	1	0	1	0	0	0	0	0	0	3	0	3
10-14	0	0	0	0	1	1	0	0	0	0	0	0	2	0	2
15-19	0	0	-	0	0	-	0	0	-	1	1	2	1	0	1
20-24	1	3	4	-	2	2	1	-	1	1	3	4	-	-	-
25-29	1	-	1	1	1	2	-	-	-	2	1	3	4	3	7
30-34	-	2	2	-	-	-	1	-	1	-	-	-	3	-	3
35-39	-	-	-	1	1	2	2	-	2	2	1	3	3	-	3
40-44	-	-	-	1	-	1	4	1	5	3	1	4	-	2	2
45-49	-	-	-	1	1	2	4	-	4	5	1	6	4	4	8
50-54	-	1	1	1	1	2	4	-	4	3	2	5	9	5	14
55-59	-	2	2	5	2	7	9	1	10	4	3	7	4	4	8
60-64	3	1	4	3	3	6	9	2	11	9	6	15	6	7	13
65-69	5	2	7	8	3	11	4	1	5	10	2	12	10	5	15
70 & above	10	13	23	15	14	29	30	41	71	21	31	52	38	33	71
All	21	25	46	38	31	69	72	47	119	64	53	117	91	69	160

Table 18 (a) – Distribution of death observed in samples according to age and sex 1995 (Contd..)

Age group	Kozhikode			Wayanad			Kannur			Kasaragod			State		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>
Below 1	3	0	3	2	4	6	3	2	5	2	4	6	32	29	61
1-4	0	0	0	0	0	0	0	1	1	1	0	1	2	6	8
5-9	2	1	3	0	1	1	0	1	1	0	1	1	9	4	13
10-14	1	0	1	0	1	1	0	0	0	0	0	0	3	2	5
15-19	0	1	1	0	1	1	0	0	0	1	0	1	5	4	9
20-24	2	-	2	-	1	1	-	-	-	-	2	2	6	17	23
25-29	-	1	1	1	-	1	-	-	-	1	2	3	18	10	28
30-34	-	2	2	-	-	-	1	-	1	-	-	-	10	11	21
35-39	1	-	1	1	-	1	-	-	-	-	-	-	19	6	25
40-44	-	-	-	1	-	1	-	1	1	2	1	3	18	10	28
45-49	2	-	2	-	-	-	2	-	2	1	1	2	34	12	46
50-54	3	1	4	2	-	2	2	-	2	2	3	5	38	19	57
55-59	1	1	2	-	1	1	3	-	3	3	-	3	44	27	71
60-64	6	1	7	2	-	2	7	1	8	5	-	5	67	34	101
65-69	9	1	10	1	-	1	2	-	2	7	2	9	83	37	120
70 & above	21	22	43	11	10	21	11	11	22	10	9	19	293	290	583
<b>All</b>	<b>51</b>	<b>31</b>	<b>82</b>	<b>21</b>	<b>19</b>	<b>40</b>	<b>31</b>	<b>17</b>	<b>48</b>	<b>35</b>	<b>25</b>	<b>60</b>	<b>681</b>	<b>518</b>	<b>1199</b>

Table 18 (b) – Distribution of estimated death according to age and sex 1995

Age group	Thiruvananthapuram			Kollam			Pathanamthitta			Alappuzha			Kottayam		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Below 1	520	416	936	112	112	224	236	-	236	243	-	243	-	465	465
1-4	104	104	208	-	225	225	-	-	-	-	-	-	-	116	116
5-9	208	-	208	-	-	-	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	104	-	104	-	-	-	-	118	118	121	-	121	-	-	-
20-24	-	208	208	-	112	112	-	118	118	-	-	-	116	232	348
25-29	208	-	208	449	112	561	118	-	118	121	-	121	-	116	116
30-34	104	208	312	337	112	449	-	-	-	-	243	243	116	233	349
35-39	624	104	728	-	112	112	118	-	118	122	121	243	116	116	232
40-44	208	-	208	-	337	337	118	-	118	365	-	365	116	116	232
45-49	832	104	936	225	225	450	118	118	236	121	-	121	349	116	465
50-54	104	104	208	449	225	674	354	118	472	-	122	122	465	116	581
55-59	208	416	624	225	674	899	354	118	472	365	121	486	581	116	697
60-64	624	104	728	561	337	898	236	708	944	243	243	486	233	116	349
65-69	832	208	1040	674	561	1235	590	1062	1652	608	243	851	349	349	698
70 & above	3328	2392	5720	3031	2245	5276	3069	2124	5193	2917	3282	6199	1976	2094	4070
All	8008	4368	12376	6063	5389	11452	5311	4484	9795	5226	4375	9601	4417	4301	8718

Contd..

Table 18 (b) – Distribution of estimated death according to age and sex 1995 (Contd..)

Age group	Idukki			Eranakulam			Thrissur			Palakkad			Malappuram		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Below 1	-	-	-	129	257	386	439	110	549	286	96	382	276	414	690
1-4	-	104	104	-	-	-	-	-	-	-	-	-	-	-	-
5-9	104	-	104	129	-	129	-	-	-	-	-	-	207	-	207
10-14	-	-	-	-	129	129	-	-	-	-	-	-	138	-	138
15-19	-	-	-	-	-	-	-	-	-	95	95	190	69	-	69
20-24	104	311	415	-	257	257	110	-	110	95	286	381	-	-	-
25-29	104	-	104	129	129	258	-	-	-	191	95	286	276	207	483
30-34	-	207	207	-	-	-	110	-	110	-	-	-	207	-	207
35-39	-	-	-	128	129	257	219	-	219	191	95	286	207	-	207
40-44	-	-	-	129	-	129	439	110	549	286	96	382	-	138	138
45-49	-	-	-	128	129	257	439	-	439	477	95	572	276	276	552
50-54	-	104	104	128	129	257	439	-	439	286	191	477	622	345	967
55-59	-	207	207	642	257	899	988	110	1098	382	286	668	276	276	552
60-64	311	104	415	385	385	770	988	219	1207	858	572	1430	414	484	898
65-69	518	207	725	1028	385	1413	439	110	549	954	191	1145	691	345	1036
70 & above	1036	1347	2383	1927	1797	3724	3291	4498	7789	2003	2957	4960	2623	2279	4902
All	2177	2591	4768	4882	3983	8865	7901	5157	13058	6104	5055	11159	6282	4764	11046

Contd..

**Table 18 (b) – Distribution of death observed in samples according to age and sex 1995 (Contd..)**

2383 Age group	Kozhikode 104			Wayanad			Kannur			Kasaragod			State		
	Male	Female	207Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
I	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Below I	307	-	307	181	362	543	295	197	492	185	369	554	3209	2798	6007
1-4	-	-	-	-	-	-	-	98	98	92	-	92	196	647	843
5-9	204	102	306	-	90	90	-	98	98	-	92	92	852	382	1234
10-14	102	-	102	-	91	91	-	-	-	-	-	-	240	220	460
15-19	-	102	102	-	91	91	-	-	-	92	-	92	481	406	887
20-24	204	-	204	-	91	91	-	-	-	-	185	185	629	1800	2429
25-29	-	102	102	90	-	90	-	-	-	92	185	277	1778	946	2724
30-34	-	204	204	-	-	-	98	-	98	-	-	-	972	1207	2179
35-39	102	-	102	90	-	90	-	-	-	-	-	-	1917	677	2594
40-44	-	-	-	90	-	90	-	-	-	185	92	277	1936	987	2923
45-49	204	-	204	-	-	-	196	-	196	92	92	184	3457	1155	4612
50-54	307	102	409	181	-	181	196	-	196	185	277	462	3716	1833	5549
55-59	102	102	204	-	90	90	295	-	295	277	-	277	4695	2773	7468
60-64	613	102	715	181	-	181	687	98	785	461	-	461	6795	3472	10267
65-69	920	102	1022	90	-	90	196	-	196	646	185	831	8535	3948	12483
70 & above	2146	2249	4395	996	904	1900	1080	1080	2160	923	829	1752	30346	30077	60423
All	5211	3167	8378	1899	1719	3618	3043	1669	4712	3230	2306	5536	69754	53328	123082

**Table 19 --Age Specific death rates based on estimated values 1995**

Age Group	Thiruvananthapuram	Kollam	Pathanamthitta	Alappuzha	Kottayam	Idukki	Eranakulam	Thrissur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	Total	State	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Male	Female
1																17	18
Below 1	27.95	6.90	18.87	12.34	17.24	0.00	18.43	16.57	11.88	10.27	13.18	28.72	20.29	24.11	15.53	16.61	14.47
1-4	1.38	1.79	0.00	0.00	1.21	1.79	0.00	0.00	0.00	0.00	0.00	0.00	1.01	4.00	0.54	0.24	0.86
5-9	1.11	0.00	0.00	0.00	0.00	1.24	1.03	0.00	0.00	0.57	1.95	1.18	0.81	0.79	0.59	0.78	0.38
10-14	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.35	0.55	1.00	0.00	0.00	0.19	0.19	0.18
15-19	0.52	0.00	1.25	0.84	0.00	0.00	0.00	0.00	0.83	0.18	0.56	1.03	0.00	0.79	0.37	0.42	0.33
20-24	1.04	0.51	1.25	0.00	2.29	3.56	1.55	0.53	1.88	0.00	1.15	1.09	0.00	1.84	1.07	0.58	1.51
25-29	1.07	2.84	1.43	0.87	0.75	0.95	1.69	0.00	1.53	2.01	0.58	1.37	0.00	3.30	1.32	1.91	0.84
30-34	1.79	2.90	0.00	1.98	2.68	2.36	0.00	0.68	0.00	1.04	1.61	0.00	1.29	0.00	1.28	1.18	1.36
35-39	4.17	0.72	1.44	2.06	1.85	0.00	1.94	1.44	2.01	1.06	0.78	1.46	0.00	0.00	1.52	2.42	0.74
40-44	1.62	2.69	1.77	3.82	2.32	0.00	1.39	4.82	3.57	0.95	0.00	2.24	1.80	6.23	2.29	3.01	1.56
45-49	8.17	3.81	3.54	1.34	4.99	0.00	2.92	3.67	5.14	4.37	2.11	0.00	3.55	3.86	3.75	5.65	1.87
50-54	2.60	8.01	9.59	1.98	8.66	2.45	4.22	4.99	6.54	10.26	6.81	7.64	5.44	13.72	6.50	8.88	4.21
55-59	8.78	10.47	9.19	7.45	10.30	5.35	15.94	13.54	9.30	7.21	3.58	4.33	8.08	8.48	9.19	11.96	6.60
60-64	10.23	12.17	22.28	8.87	6.26	14.05	14.84	16.20	20.57	12.44	13.78	11.57	22.53	17.17	14.16	19.47	9.24
65-69	18.90	20.56	39.54	17.73	13.65	28.78	32.44	9.05	21.21	2.105	20.46	6.55	7.95	48.16	21.01	30.69	12.49
70 & Above	78.57	67.61	78.86	73.29	53.30	77.15	55.32	80.12	66.93	71.80	64.02	122.84	56.27	87.10	70.42	76.92	64.88
All	5.83	5.45	9.20	6.33	5.44	4.39	5.57	6.27	5.31	3.65	4.80	4.72	4.02	5.53	5.36	6.23	4.52

**Table 20 -Death observed in Samples classified by month of occurrence 1995**

District	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Thiruvananthapuram	4	4	13	6	12	2	13	15	12	15	7	16	119
Kollam	2	7	8	6	6	11	8	15	8	7	15	9	102
Pathanamthitta	7	4	5	4	10	3	5	9	13	10	7	6	83
Alappuzha	8	8	8	1	7	12	4	8	4	4	13	2	79
Kottayam	7	4	5	11	6	7	7	7	5	3	7	6	75
Idukki	5	1	8	3	4	3	3	2	6	4	4	3	46
Eranakulam	5	7	5	3	4	10	6	6	5	6	4	8	69
Thrissur	9	10	11	14	4	3	14	12	9	9	10	14	119
Palakkad	7	9	6	9	6	4	17	11	12	10	17	9	117
Malappuram	9	13	7	11	16	17	15	16	10	13	10	23	160
Kozhikode	7	4	6	10	5	4	7	10	6	4	10	9	82
Wayanad	3	3	-	4	3	1	5	8	4	2	5	2	40
Kannur	5	4	4	4	4	3	4	5	3	6	2	4	48
Kasaragod	9	3	5	3	3	6	3	6	7	5	2	8	60
<b>State</b>	<b>87</b>	<b>81</b>	<b>91</b>	<b>89</b>	<b>90</b>	<b>86</b>	<b>111</b>	<b>130</b>	<b>104</b>	<b>98</b>	<b>113</b>	<b>119</b>	<b>1199</b>

**Table 21 –Deaths classified by type of medical attention**

District	Type of Medical attention				Total
	Institutional	Qualified Medical Practitioner	Un-Qualified Medical Practitioner	No treatment	
1	2	3	4	5	6
Thiruvananthapuram	91	11	9	8	119
Kollam	45	20	8	29	102
Pathanamthitta	49	32	1	1	83
Alappuzha	27	33	9	10	79
Kottayam	33	28	-	14	75
Idukki	10	13	17	6	46
Eranakulam	35	7	3	24	69
Thrissur	48	62	-	9	119
Palakkad	47	48	13	9	117
Malappuram	77	82	-	1	160
Kozhikode	73	3	-	6	82
Wayanad	28	3	1	8	40
Kannur	33	6	2	7	48
Kasaragod	14	30	11	5	60
State	610	378	74	137	1199



**Table 22 – Distribution of samples according to death rate of each sample 1995**

Age group	Thiruvananthapuram		Kollam		Pathanamthitta		Alappuzha		Kottayam		Idukki		Ernakulam		Thrissur	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<b>1</b>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Not reported	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	12.50	0	0.00
Less than 1	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
1 & less than 3	2	15.38	1	8.33	0	0.00	0	0.00	0	0.00	3	42.86	1	12.50	2	15.39
3 & less than 5	2	15.39	4	33.33	1	16.67	3	37.50	4	44.45	2	28.57	1	12.50	2	15.39
5 & less than 7	4	30.77	4	33.34	1	16.67	2	25.00	3	33.33	1	14.29	2	25.00	5	38.46
7 & less than 9	5	38.46	3	25.00	0	0.00	1	12.50	2	22.22	1	14.28	1	12.50	1	7.69
9 & less than 11	0	0.00	0	0.00	0	0.00	2	25.00	0	0.00	0	0.00	2	25.00	2	15.38
11 & less than 13	0	0.00	0	0.00	4	66.66	0	0.00	0	0.00	0	0.00	0	0.00	1	7.69
13 & less than 15	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
15 & above	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
<b>Total</b>	<b>13</b>	<b>100.00</b>	<b>12</b>	<b>100.00</b>	<b>6</b>	<b>100.00</b>	<b>8</b>	<b>100.00</b>	<b>9</b>	<b>100.00</b>	<b>7</b>	<b>100.00</b>	<b>8</b>	<b>100.00</b>	<b>13</b>	<b>100.00</b>

Table 22 –Distribution of samples according to death rate of each sample 1995 (Contd..)

Age group	Palakkad		Malappuram		Kozhikode		Wayanad		Kannur		Kasaragod		1995		1994		1993	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
1	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Not reported	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.67	0	0	0	0.00
Less than 1	0	0.00	1	3.57	1	9.09	0	0.00	0	0.00	0	0.00	2	1.33	2	1.33	2	1.33
1 & less than 3	2	13.33	8	28.57	2	18.18	3	60.00	3	37.50	0	0.00	27	18.00			10	6.67
3 & less than 5	7	46.67	11	39.29	3	27.27	0	0.00	3	37.50	3	42.86	46	30.67			40	26.67
5 & less than 7	3	20.00	8	28.57	1	9.09	1	20.00	1	12.50	2	28.57	38	25.33			49	32.67
7 & less than 9	1	6.67	0	0.00	4	36.37	0	0.00	1	12.50	2	28.57	22	14.67			33	22.00
9 & less than 11	2	13.33	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8	5.33			11	7.33
11 & less than 13	0	0.00	0	0.00	0	0.00	1	20.00	0	0.00	0	0.00	6	4.00			3	2.00
13 & less than 15	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00			2	1.33
15 & above	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00			0	0.00
Total	15	100.00	28	100.00	11	100.00	5	100.00	8	100.00	7	100.00	150	100.00			150	100.00

**Table 23 – Infant death observed and estimated according to sex and infant mortality rate 1995**

District	Infant death observed			Infant death estimated			Estimated live birth			Infant mortality rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>I</b>	2	3	4	5	6	7	8	9	10	11	12	13
Thiruvananthapuram	5	4	9	520	416	936	19032	19345	38377	27.32	21.50	24.39
Kollam	1	1	2	112	112	224	16953	15606	32559	6.61	7.18	6.88
Pathanamthitta	2	-	2	236	-	236	7198	9559	16757	32.79	-	14.08
Alappuzha	2	-	2	243	-	243	11181	9722	20903	21.73	-	11.63
Kottayam	-	4	4	-	465	465	13134	13135	26269	-	35.40	17.70
Idukki	-	-	-	-	-	-	10676	9432	20108	-	-	0.00
Eranakulam	1	2	3	129	257	386	15417	12591	28008	8.37	20.41	13.78
Thrissur	4	1	5	439	110	549	16021	18764	34785	27.40	5.86	15.78
Palakkad	3	1	4	286	96	382	20507	19457	39964	13.95	4.93	9.56
Malappuram	4	6	10	276	414	690	36382	33345	69727	7.59	12.42	9.90
Kozhikode	3	-	3	307	-	307	14712	12873	27585	20.87	-	11.13
Wayanad	2	4	6	181	362	543	7327	6965	14292	24.70	51.97	37.99
Kannur	3	2	5	295	197	492	13449	11191	24640	21.93	17.60	19.97
Kasaragod	2	4	6	185	369	554	11164	10888	22052	16.57	33.89	25.12
<b>State</b>	32	29	61	3209	2798	6007	213153	202873	416026	15.05	13.79	14.44

**Table 24 – Number of infant deaths observed in samples of children born during the current year and previous year 1995**

District	Born in 1994						Born in 1995											
	Less than 7 days			Less than 28 days			Less than 7 days			Less than 28 days								
	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Thiruvananthapuram							1	-	1	3	2	5	3	3	6	4	4	8
Kollam							-	-	-	-	-	-	-	-	-	1	1	2
Pathanamthitta							-	-	-	1	-	1	1	-	1	2	-	2
Alappuzha							-	-	-	1	-	1	1	-	1	2	-	2
Kottayam							-	-	-	-	-	-	-	3	3	-	4	4
Idukki							-	-	-	-	-	-	-	-	-	-	-	-
Eranakulam							-	-	-	1	1	2	1	1	2	1	2	3
Thrissur							1	-	1	1	-	1	2	1	3	3	1	4
Palakkad							1	-	1	2	1	3	2	1	3	2	1	3
Malappuram							-	-	-	1	2	3	4	5	9	4	6	10
Kozhikode							-	-	-	2	-	2	2	-	2	3	-	3
Wayanad							-	-	-	1	3	4	1	3	4	2	4	6
Kannur							-	1	1	2	1	3	2	1	3	3	1	4
Kasaragod							-	-	-	1	3	4	1	3	4	2	4	6
State							3	1	4	16	13	29	20	21	41	29	28	57

**Table 25 – Estimated number of infant deaths for the year 1995 of children born during the current year and previous year**

District	Born in 1994						Born in 1995											
	Less than 7 days		Less than 28 days		Less than one year		Less than 7 days		Less than 28 days		Less than one year							
	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total	Male	Fe- male	Total						
<b>I</b>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Thiruvananthapuram				104					104	312	208	520	312	312	624	416	416	832
Kollam																112	112	224
Pathanamthitta										118		118	118		118	236		236
Alappuzha										122		122	122		122	243		243
Kottayam																		465
Idukki																		
Eranakulam										128	128	256	128	128	256	129	257	386
Thrissur							110		110	110		110	220	110	330	329	110	439
Palakkad							95		95	191	95	286	191	95	286	192	95	287
Malappuram										69	138	207	276	345	621	276	414	690
Kozhikode										204		204	204		204	307		307
Wayanad										90	271	361	90	271	361	181	362	543
Kannur								98	98	196	98	294	196	98	294	295	99	394
Kasaragod										92	277	369	92	277	369	185	369	554
<b>State</b>							309	98	407	1632	1215	2847	1949	1985	3934	290	2699	5600

**Table 26 – Estimated number of Perinatal, Neonatal Post neonatal infant death according to sex**

District	Estimated number of infant deaths											
	Less than 7 days			Less than 28 days			Less than one year					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>			
Thiruvananthapuram	312	208	520	312	312	624	520	416	936			
Kollam	-	-	-	-	-	-	112	112	224			
Pathanamthitta	118	-	118	118	-	118	236	-	236			
Alappuzha	122	-	122	122	-	122	243	-	243			
Kottayam	-	-	-	-	349	349	-	465	465			
Idukki	-	-	-	-	-	-	-	-	-			
Eranakulam	128	128	256	128	128	256	129	257	386			
Thrissur	110	-	110	220	110	330	439	110	549			
Palakkad	191	95	286	191	95	286	286	96	382			
Malappuram	69	138	207	276	345	621	276	414	690			
Kozhikode	204	-	204	204	-	204	307	-	307			
Wayanad	90	271	361	90	271	361	181	362	543			
Kannur	196	98	294	196	98	294	295	197	492			
Kasaragod	92	277	369	92	277	369	185	369	554			
<b>State</b>	<b>1632</b>	<b>1215</b>	<b>2847</b>	<b>1949</b>	<b>1985</b>	<b>3934</b>	<b>3209</b>	<b>2798</b>	<b>6007</b>			

**Table 27 – Birth and death detected through overlapping survey and intensive enquiry classified according to place and type of births and deaths 1995**

District	Birth						Death					
	Total	Place			Kind		Total	Place			Kind	
		In	Out		Live births	Still births		In	Out		Infant deaths	Other deaths
1	2	3	4		5	6	7	8	9		10	11
Thiruvananthapuram	11	-	11		11	-	3	2	1		-	3
Kollam	10	-	10		10	-	-	-	-		-	-
Pathanamthitta	13	3	10		13	-	9	1	8		-	9
Alappuzha	4	-	4		4	-	2	1	1		-	2
Kottayam	3	-	3		3	-	1	-	1		-	1
Idukki	4	-	4		4	-	-	-	-		-	-
Eranakulam	15	-	15		15	-	3	1	2		-	3
Thrissur	9	-	9		9	-	2	-	2		1	1
Palakkad	16	-	16		16	-	2	1	1		-	2
Malappuram	52	1	51		51	1	11	7	4		1	10
Kozhikode	-	-	-		-	-	-	-	-		-	-
Wayanad	1	-	1		1	-	-	-	-		-	-
Kannur	4	-	4		4	-	2	1	1		-	2
Kasaragod	9	-	9		9	-	-	-	-		-	-
State	151	4	147		150	1	35	14	21		2	33

**Table 28 – Distribution of Births and Deaths recorded by Enumerator and Supervisor, detected through overlapping survey and intensive enquiry 1995**

Age Group	Births														Total
	Trivandrum	Kollam	Pathanamthitta	Alappuzha	Kottayam	Idukki	Eranakulam	Thirissur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Common to enumerator & supervisor	174	163	38	105	129	105	116	209	235	358	102	77	106	80	1997
Registered by enumerator	181	177	47	120	131	112	120	217	249	371	123	93	114	82	2137
	49.05	61.03	33.10	69.77	57.96	57.73	56.07	68.45	59.29	36.73	45.22	58.49	45.42	34.31	49.99
Listed by supervisor	350	264	120	151	221	181	193	300	390	942	250	141	238	228	3969
	94.85	91.03	84.51	87.79	97.79	93.30	90.19	94.64	92.86	93.27	91.91	88.68	94.82	95.40	92.84
Total omitted by enumerator & supervisor	357	278	129	166	223	188	197	308	404	955	271	157	246	230	4109
Detected by others	1	2	-	2	-	2	2	-	-	4	1	1	1	-	16
Overlapping survey	11	10	13	4	3	4	15	9	16	52	-	1	4	9	151
Intensive enquiry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>369</b>	<b>290</b>	<b>142</b>	<b>172</b>	<b>226</b>	<b>194</b>	<b>214</b>	<b>317</b>	<b>420</b>	<b>1010</b>	<b>272</b>	<b>159</b>	<b>251</b>	<b>239</b>	<b>4275</b>

Contd..





**Table 29 – Distribution of rate of marriage per thousand population and percentage distribution of marriage according to age and sex 1995**

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	0.60	36.20	0.00	0.08	0.60	36.28	0.65	35.44	0.00	11.11	0.64	35.27
20 – 24	24.22	50.82	0.00	0.00	24.22	50.82	24.37	46.84	0.00	0.00	24.04	46.52
25 – 29	58.87	17.95	0.22	0.09	59.08	18.04	50.32	15.56	13.33	11.11	49.82	15.53
30 – 34	26.93	2.50	0.37	0.11	27.30	2.61	20.30	1.69	20.00	11.11	20.29	1.76
35 – 39	5.49	0.55	0.26	0.33	5.75	0.88	3.99	0.39	13.33	33.34	4.11	0.61
40 – 44	0.47	0.16	0.00	0.32	0.47	0.48	0.28	0.08	0.00	22.22	0.28	0.23
45 – 49	0.17	0.00	1.32	0.16	1.49	0.17	0.09	0.00	53.34	11.11	0.82	0.08
15 – 49	17.94	19.63	0.25	0.14	18.19	19.76	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 1993, 1994 and 1995**

Age group x to x+n	Age specific death rate			Mean age specific death rate (unit) nm <sub>x</sub>	Probably of person aged x dying before age x+n (g <sub>x</sub> )	No. of death (d <sub>x</sub> )	No. surviving to age x out of 100000 born alive (l <sub>x</sub> )	Year of life lived between x & x+n(l <sub>x</sub> )	Year of life between x and above x (T <sub>x</sub> )	Expectation of life in year (E <sub>x</sub> )	Beginning age x
	1993	1994	1995								
1	2	3	4	5	6	7	8	9	10	11	12
Less than 1	17.68	19.90	16.61	0.01806	0.01505	1505	100000	98640	7021334	70.21	0
1-4	0.88	0.76	0.24	0.00063	0.00252	248	98495	393484	6922694	70.28	1
5-9	0.24	0.29	0.78	0.00044	0.00220	216	98247	490695	6529210	66.46	5
10-14	0.23	0.44	0.19	0.00029	0.00145	142	98031	489800	6038515	61.60	10
15-19	0.72	0.88	0.42	0.00067	0.00334	327	97889	488628	5548715	56.68	15
20-24	0.57	1.17	0.58	0.00077	0.00384	375	97562	486873	5060087	51.87	20
25-29	1.14	1.05	1.91	0.00137	0.00683	664	97187	484275	4573214	47.06	25
30-34	1.92	2.48	1.18	0.00186	0.00926	894	96523	480380	4088939	42.36	30
35-39	1.88	3.84	2.42	0.00271	0.01346	1287	95629	474928	3608559	37.73	35
40-44	3.24	3.89	3.01	0.00338	0.01676	1581	94342	467758	3133631	33.22	40
45-49	5.92	6.52	5.65	0.00603	0.02970	2755	92761	456918	2665873	28.74	45
50-54	8.29	7.50	8.88	0.00822	0.04027	3625	90006	440968	2208955	24.54	50
55-59	18.28	15.72	11.96	0.01532	0.07377	6372	86381	415975	1767987	20.47	55
60-64	27.29	21.06	19.47	0.02261	0.10700	8561	80009	378643	1352012	16.90	60
65-69	38.32	30.66	30.69	0.03322	0.15336	10957	71448	329848	973369	13.62	65
70 & above	113.05	92.03	76.92	0.09400	1.00000	60491	60491	643521	643521	10.64	70

**Table 31 – Life Tables of Females based on Age specific Death rates for the year 1993, 1994 and 1995**

Age group $x$ to $x+n$	Age specific death rate			Mean age specific death rate (unit) $nm_x$	Probably of person aged $x$ dying before age $x+n$ ( $g_x$ )	No. of death ( $dx$ )	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 $x$
	1993	1994	1995								
1	2	3	4	5	6	7	8	9	10	11	12
Less than 1	11.70	13.56	14.47	0.01324	0.01382	1382	100000	98666	7658649	76.59	0
1-4	0.91	0.93	0.86	0.00090	0.00354	349	98618	393774	7559983	76.66	1
5-9	0.45	0.08	0.38	0.00030	0.00150	147	98269	490978	7166209	72.92	5
10-14	0.54	0.32	0.18	0.00035	0.00175	172	98122	490180	6675231	68.03	10
15-19	0.36	0.75	0.33	0.00048	0.00240	235	97950	489163	6185051	63.14	15
20-24	0.73	1.29	1.51	0.00118	0.00588	575	97715	487138	5695888	58.29	20
25-29	1.04	1.11	0.84	0.00100	0.00499	485	97140	484488	5208750	53.62	25
30-34	0.64	1.01	1.36	0.00100	0.00499	482	96655	482070	4724262	48.88	30
35-39	0.88	0.95	0.74	0.00086	0.00429	413	96173	479833	4242192	44.11	25
40-44	2.35	2.07	1.56	0.00199	0.00990	948	95760	476430	3762359	39.29	40
45-49	2.20	2.26	1.87	0.00211	0.01049	995	94812	471573	3285929	34.66	45
50-54	5.34	5.31	4.21	0.00495	0.02445	2294	93817	463350	2814356	30.00	50
55-59	6.72	6.18	6.60	0.00650	0.03198	2927	91523	450298	2351006	25.69	55
60-64	13.74	12.85	9.24	0.01194	0.05797	5136	88596	430140	1900708	21.45	60
65-69	16.64	21.59	12.49	0.01691	0.08112	6770	83460	400375	1470568	17.62	65
70 & above	76.26	73.84	64.88	0.07166	1.00000	76690	76690	1070193	1070193	13.95	70

**Table 32 – Life Tables of persons based on Age specific Death rates for the year 1993, 1994 and 1995**

Age group $x$ to $x+n$	Age specific death rate			Mean age specific death rate (unit) $nm_x$	Probably of person aged $x$ dying before age $x+n$ ( $g_x$ )	No. of death ( $dx$ )	No. surviving to age $x$ out of 100000 born alive ( $l$ )	Year of life lived between $x$ & $x+n$ ( $lx$ )	Year of life between $x$ and above $x$ ( $T_x$ )	Expectation of life in year ( $E_x$ )	Beginning age $x$
	1993	1994	1995								
1	2	3	4	5	6	7	8	9	10	11	12
Less than 1	14.76	16.80	15.53	0.01570	0.01447	1447	100000	98651	7325912	73.26	0
1 – 4	0.89	0.84	0.54	0.00076	0.00304	300	98553	393612	7227261	73.33	1
5 – 9	0.35	0.19	0.59	0.00038	0.00190	187	98253	490798	6833649	69.55	5
10 – 14	0.38	0.38	0.19	0.00032	0.00160	157	98066	489938	6342851	64.68	10
15 – 19	0.54	0.81	0.37	0.00057	0.00285	279	97909	488848	5852913	59.78	15
20 – 24	0.66	1.23	1.07	0.00099	0.00494	482	97630	486945	5364065	54.94	20
25 – 29	1.08	1.09	1.32	0.00116	0.00578	562	97148	484335	4877120	50.20	25
30 – 34	1.25	1.70	1.28	0.00141	0.00703	679	96586	481233	4392785	45.48	30
35 – 39	1.36	2.32	1.52	0.00173	0.00861	826	95907	477470	3911552	40.78	35
40 – 44	2.78	2.94	2.29	0.00267	0.01326	1261	95081	472253	3434082	36.12	40
45 – 49	4.01	4.28	3.75	0.00401	0.01985	1862	93820	464445	2961829	31.57	45
50 – 54	6.76	6.37	6.50	0.00654	0.03217	2958	91958	452395	2497384	27.16	50
55 – 59	12.11	10.56	9.19	0.01062	0.05173	4604	89000	433490	2044989	22.98	55
60 – 64	20.06	16.72	14.16	0.01698	0.08144	6873	84396	404798	1611499	19.09	60
65 – 69	26.49	25.79	21.01	0.02443	0.11512	8924	77523	365305	1206701	15.57	65
70 & above	92.27	81.89	70.42	0.08153	1.00000	68599	68599	841396	841396	12.27	70

**Table 33 – Number of units and population in the universe and the samples**

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



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