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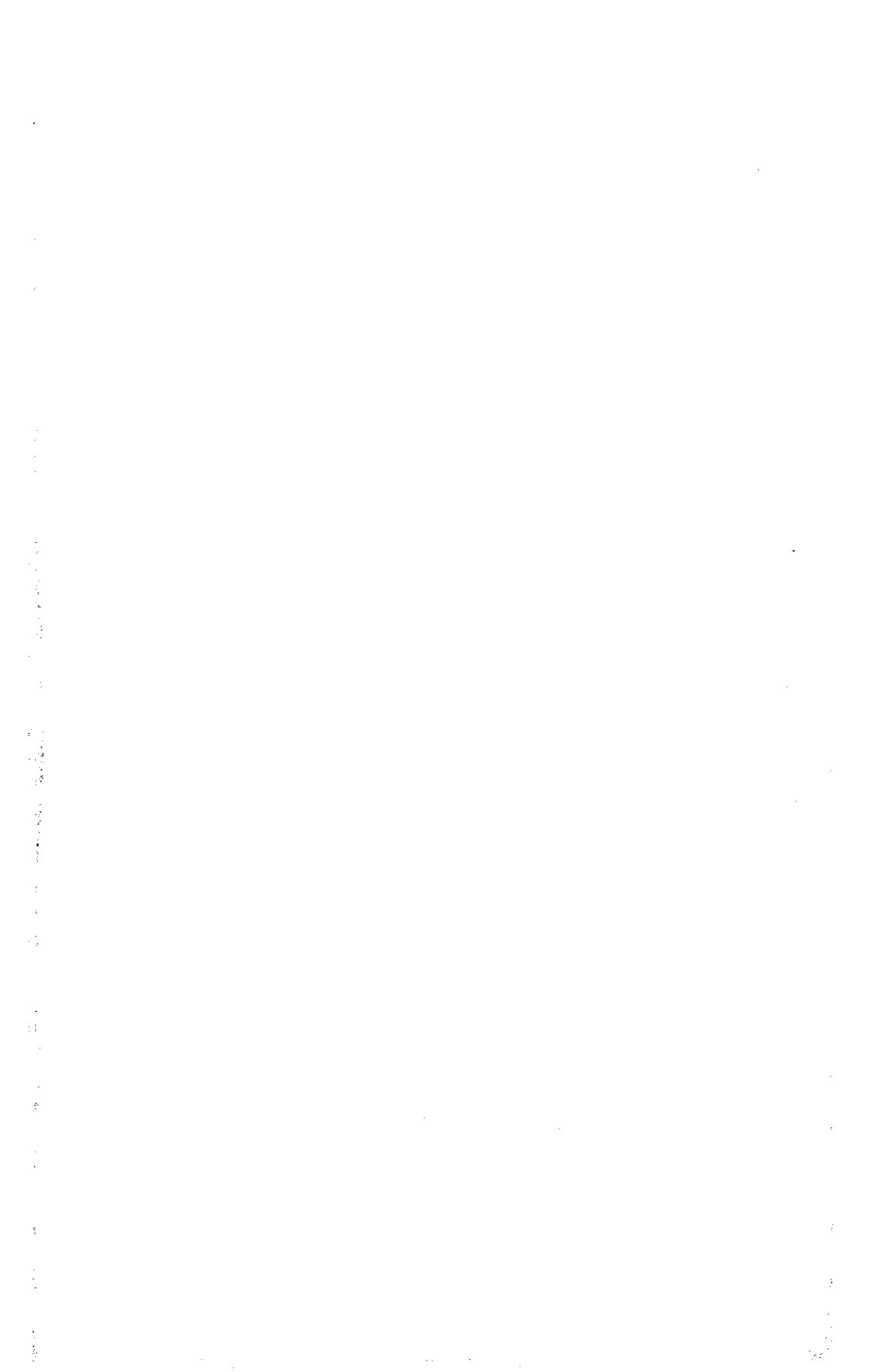
VITAL STATISTICS BULLETIN

1997

Department of Economics and Statistics

Thiruvananthapuram

June 2001



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Preface

The Vital Statistics Bulletin presents the Vital Statistics of Kerala for the year 1997. The data relating to vital rates estimated in this report is based on the births and deaths cards received from the registration units of Kerala namely Panchayats, Municipalities and Corporations.

The data entry works of the birth and death cards were carried out in the Computer division of this office. This bulletin has been prepared by the Vital Statistics division of the Department.

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25—7—2000



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VITAL STATISTICS BULLETIN 1997

Introduction

The history of Civil Registration in India dates back to the middle of the nineteenth century. The registration of events is a statutory activity performed under the provisions of the Registration of Birth and Death Act 1969. Civil Registration system is the primary source of population data. The main objective of Civil Registration system is to estimate the annual change of population both at national and state levels of the country. The data on vital events comprises the data from the Registrars of Births and Deaths maintained by the Civil Governments. When these data from the Civil Registration system are assembled, they are referred as 'Vital Statistics' - which is one of the major tools in the hands of demographers and planners for analysing the composition of population.

Civil Registration system is defined as continuous permanent, compulsory recording of the occurrence and characteristics of Vital events as defined in and as provide through decree or regulation in accordance with the requirements of a country. It provides a safeguard to social status and individual benefits. Birth Registration provides unique identity of the person, records a parental relationship, place of birth, nationality, proof of age for school entry, entry in service, obtaining a driving license, etc. Similarly the Death Registration provides benefits such as settlement of inheritance, insurance claims claiming family allowances and other social security benefits.

Director of Panchayats is the statutory Chief Registrar of Births and Deaths of Kerala. The Additional Director (General) of Economics and Statistics is the Additional Chief Registrar of Births and Deaths. Other staffs involved in the system are Deputy Chief Registrars, District Registrars and Local Registrars. At the district level, the Assistant Directors of Panchayats and respective Secretaries of Municipalities and Corporations are the district Registrars. The Secretaries of the Grama Panchayats and the Health Inspectors and Health Officers of the Municipalities and Corporations are the local Registrars of the concerned registration units. In the Kannur Cantonment, the Executive officer is the Registrar of that registration unit.

The Births and Deaths cards received from the registering authorities are processed and analysed in the Vital Statistical unit of the Directorate of Economics and Statistics.

This bulletin presents the results of the analysis of Vital Statistics for the year 1997.

Conceptual and Empirical Framework

As per the Births and Deaths Registration Act, births and deaths are to be registered within 21 days after the occurrence of the events at the place of occurrence. The details of each event, such as date of event, date of registration, sex, literacy, occupation and religion of father, age of mother, order of birth, etc. are recorded at the time of registration. These details are then transformed to the prescribed birth, death and still birth cards from the concerned registers. These filled in cards are forwarded periodically to the Directorate of Economics and Statistics, where the computerized data entry is made and the results are processed for further analysis.

Limitations of the Data

Accuracy and Validity Examined

The registrations of vital events are less completed and consistent than demographers might wish. The problem arises because of several cases of under registration. This inadequacy and incompleteness has affected the quality of vital statistics. The events that occur in a town will relate to those that occur to normal residents or to those outsiders who come to the town to avail better medical facilities. As a matter of fact, a good number of events to rural population, which occur, in the urban hospitals are reported as urban events. Sometimes the ignorance of the informants reporting vital events may adversely affect the quality of the data. Despite these inconsistencies and shortcomings, the vital registration system is the most complete record of vital events available. All efforts are being made to make the public aware of the importance and necessity of registration of vital events and to improve the quality of the data reported.

Processing of the Data

During the year under report 6.08 lakhs birth cards and 1.66 lakhs death cards were received from the registration units. Processing of data was carried out in the Computer division of the DES.

Vital Rates: Conceptual Perspective

1. *Crude birth rate* – is the number of live births per thousand populations for a single year.
2. *Crude death rate* – is the number of deaths per thousand population for a single year
3. *Infant death rate* – is the number of infant deaths (below one year) per thousand live births per year
4. *Maternal death rate* – is the number of maternal deaths per thousand live births and still births added together.
5. *Still birth rate* – is the number of still births per thousand live births and still births added together.

(In the above 1st and 2nd cases, the population used is the estimated mid-year population).

Birth and Death Rates

During the year under report, details of 6.08 lakhs of registered live births comprising of 2.65 lakhs rural births and 3.43 lakhs urban births were analysed. Out of this 6.08 lakhs, the male births pick up the share of 3.06 lakhs and female births came at 3.02 lakhs respectively (ie.50.33% and 49.67% respectively). The number of registered births during the year has increased from that of the previous year's figure of 5.86 lakhs to the present 6.08 lakhs. The registered birth rate for the state during the year 1997 was 19.19 as against 18.76 during 1996. The rural and urban rates were 9.73 and 77.55 respectively as against 9.37 and 76.44 during the previous year. Malappuram district recorded the highest birth rate during the

year also with 26.35 compared to the previous year's birth rate of 25.69. Other districts those top in the tank of birth rates are – Kozhikode (21.37), Wayanad (21.00), Kasaragod (20.88) and Thrissur (20.19). All these are the northern districts of the State and exceeds the state average of 19.19. The Birth rate of Palakkad is same as that of the State average. The lowest birth-rate district is Alappuzha (14.04) followed by Pathanamthitta (15.08), Idukki (16.24) and Kollam (16.56).

Deaths and Death Rates

The total number of death cards received and processed for the year 1997 were 1.66 lakhs out of which 1.13 were from rural areas and 0.53 lakhs were from urban areas. Out of these male deaths comes at 0.94 lakhs and female death form 0.72 lakhs. (ie. 56.63% and 43.37% respectively) The registered death rate of the state for the year 1997 was 5.25 as against 5.51 of the previous year. This indicated a slight decrease of 0.26 during the current year over the previous year. The rural and urban breakups were 4.17 and 11.95 respectively. On analysing the district wise death rates, it could be found that, the Thrissur tops first with 6.33 followed by Kozhikode with 6.01, Thiruvananthapuram with 5.89, Eranakulam with 5.82, Kottayam with 5.73, Pathanamthitta with 5.53 and Alappuzha with 5.43 and exceeds the state average of 5.25. The lowest death rate is in Malappuram with 3.83 followed by Idukki with 3.98.

Infant Death Rates

It is the death rate of infants having age of below one year per thousand live births. Infant mortality rate in Kerala is the lowest one compared to the National level, which around 74 per thousand during 1994. In Kerala this rate persisted around 10 during the period of 5 years after the 1991 Census. This is the direct result of the outstanding health care and medical facilities available in the State. The total infant death registered during the year was 5510 as against 5588 of the previous year. Accordingly, the infant death rate for 1997 was estimated at 9.07 as against 9.53 during 1996. The rural and urban split up of this was worked out at 4.97 and 12.23 respectively. Another noteworthy feature of infant mortality in Kerala is that the male deaths is greater than the female deaths with 2980 and 2530 respectively out of the male births of 3.06 lakhs and female births of 3.02 lakhs.

District wise break-up of infant death rates ranges from the highest 13.60 of the Kozhikode district to the lowest 5.05 of the Malappuram district. Infant death rate shows an increasing trend relating to Pathanamthitta, Alappuzha, Idukki and Palakkad districts compared to previous year.

Maternal Death Rates

The number of maternal deaths registered in the state during the year under report was 77. Of which 54 were from rural areas and 23 were from urban areas. This shows an increasing trend compared to previous year. The rates estimated were 0.20 and 0.07 respectively for rural and urban areas and it was 0.13 for the state as a whole. No maternal deaths were reported from the urban areas of Pathanamthitta and Idukki.

Still Birth Rate

The total number of stillbirths registered during the year was 3167 as against 3026 of the previous year. The estimated still birth rate during the year was 5.18 as against 5.14 of the previous year 1996. The estimated stillbirth rates show a slight increase compared to previous year. District wise break up reveals that still birth rates of the districts ranges between the top 11.45 of the Kozhikode and the lowest 2.28 of the Kollam.

Conclusion

Current year also Malappuram has the highest birth rate as well as the lowest death rate. Birth rate showed a slight increase during the year also as compared to that of the previous year. There is also a slight increase in death rate compared to the previous year. All the vital rates were higher in the urban areas than the rural areas. This further contributes to emphasis the fact that, the better medical facilities available in the urban areas is being utilized by the rural people.

Vital Statistics at a Glance

Year	Birth rate	Death rate	Infant death rate	Still birth rate	Maternal death rate
1991	19.08	5.37	11.32	6.08	0.09
1992	17.67	5.49	9.84	5.29	0.03
1993	17.67	5.38	10.48	5.05	0.02
1994	17.52	5.38	10.41	5.12	0.06
1995	18.09	5.28	10.15	5.72	0.07
1996	18.76	5.51	9.53	5.14	0.11
1997	19.19	5.25	9.07	5.18	0.13

Table 1 - Total number of Live Births, Deaths, Still Births, Infant Deaths, Maternal Deaths and their Rates - 1997

District	Rural/ Urban	Estimated mid year population (*000)	Live births			Deaths		
			Number 1997	Rates		Number 1997	Rates	
				1997	1996		1997	1996
1	2	3	4	5	6	7	8	9
Thiruvananthapuram	Rural	2492	13053	5.24	4.69	9024	3.62	3.94
	Urban	715	46477	65.00	63.22	9854	13.78	14.49
	Total	3207	59530	18.56	17.81	18878	5.89	6.31
Kollam	Rural	2393	23425	9.79	10.06	9986	4.17	4.29
	Urban	228	19976	87.61	81.48	2618	11.48	11.78
	Total	2621	43401	16.56	16.33	12604	4.81	4.95
Pathanamthitta	Rural	1172	8422	7.19	8.65	5340	4.56	4.81
	Urban	122	11091	90.91	85.18	1815	14.88	14.58
	Total	1294	19513	15.08	15.97	7155	5.53	5.74
Alappuzha	Rural	1828	5770	3.16	3.50	7691	4.21	4.59
	Urban	350	24805	70.87	64.78	4129	11.80	11.90
	Total	2178	30575	14.04	13.42	11820	5.43	5.78
Kottayam	Rural	1831	23851	13.03	12.85	9973	5.45	5.80
	Urban	159	11394	71.66	71.30	1422	8.94	9.57
	Total	1990	35245	17.71	17.58	11395	5.73	6.12
Idukki	Rural	1129	14030	12.43	13.21	4183	3.71	3.87
	Urban	44	5019	114.07	112.70	491	11.16	10.66
	Total	1173	19049	16.24	16.99	4674	3.98	4.12
Ernakulam	Rural	2171	9926	4.57	4.38	9067	4.18	4.02
	Urban	896	47387	52.89	50.68	8768	9.79	10.15
	Total	3067	57313	18.69	17.97	17835	5.82	5.82
Thrissur	Rural	2716	26985	9.94	8.27	14521	5.35	4.88
	Urban	263	33150	126.05	119.71	4327	16.45	15.79
	Total	2979	60135	20.19	18.20	18848	6.33	5.85
Palakkad	Rural	2319	27784	11.98	11.87	10065	4.34	5.05
	Urban	274	21988	80.25	83.06	2730	9.96	10.38
	Total	2593	49764	19.19	19.33	12795	4.93	5.61
Malappuram	Rural	3073	58029	18.88	17.65	10388	3.38	3.44
	Urban	297	30762	103.58	109.86	2535	8.54	10.94
	Total	3370	88791	26.35	25.69	12923	3.83	4.10
Kozhikode	Rural	2275	16786	7.38	7.30	8077	3.55	3.85
	Urban	577	44151	76.52	82.84	9057	15.70	19.59
	Total	2852	60937	21.37	22.68	17134	6.01	6.87
Wayanad	Rural	705	12175	17.27	15.93	2756	3.91	4.35
	Urban	27	3199	118.48	135.42	240	8.89	9.81
	Total	732	15374	21.00	20.23	2996	4.09	4.55
Kannur	Rural	2106	12338	5.86	5.74	8556	4.06	4.21
	Urban	345	31412	91.05	85.27	3437	9.96	9.13
	Total	2451	43750	17.85	16.99	11993	4.89	4.90
Kasaragod	Rural	1045	12527	11.99	10.43	4284	4.10	4.37
	Urban	121	11823	97.71	95.52	1094	9.04	8.90
	Total	1166	24350	20.88	19.16	5378	4.61	4.84
State	Rural	27255	265101	9.73	9.37	113612	4.17	4.33
	Urban	4418	342626	77.55	76.44	52816	11.95	12.71
	Total	31673	607727	19.19	18.76	166428	5.25	5.51

(Table 1 contd.)

District	Rural/ Urban	Still births			Infant deaths			Maternal deaths		
		Number	Rates		Number	Rates		Number	Rates	
			1996	1997		1997	1996		1997	1996
1	2	10	11	12	13	14	15	16	17	18
Thiruvananthapuram	Rural	24	1.04	1.84	33	2.53	3.21	4	0.31	0.26
	Urban	366	7.66	7.81	768	16.52	16.82	1	0.02	0.02
	Total	390	6.63	6.51	801	13.46	14.04	5	0.08	0.07
Kollam	Rural	75	3.27	3.19	101	4.31	5.64	4	0.17	0.17
	Urban	24	2.91	1.20	150	7.51	9.35	2	0.10	0.05
	Total	99	3.12	2.28	251	5.78	7.27	6	0.14	0.12
Pathanamthitta	Rural	3	0.40	0.36	61	7.24	2.20	3	0.36	0.20
	Urban	56	5.55	5.02	134	12.08	11.45	-	-	-
	Total	59	3.03	3.01	195	9.99	6.92	3	0.15	0.10
Alappuzha	Rural	6	2.53	1.04	30	5.20	4.60	4	0.69	0.63
	Urban	156	6.65	6.25	258	10.40	10.34	2	0.08	0.09
	Total	162	5.76	5.27	288	9.42	9.08	6	0.20	0.20
Kottayam	Rural	133	4.68	5.55	250	10.48	11.65	3	0.13	0.13
	Urban	47	4.74	4.11	50	4.39	4.41	2	0.18	0.09
	Total	180	4.70	5.08	300	8.51	9.27	5	0.14	0.12
Idukki	Rural	47	3.72	3.34	148	10.55	7.68	4	0.29	0.20
	Urban	10	3.42	1.99	42	8.37	9.89	-	-	-
	Total	57	3.65	2.98	190	9.97	8.24	4	0.21	0.15
Erana-kulam	Rural	52	3.63	5.21	64	6.45	3.00	5	0.50	0.43
	Urban	230	4.63	4.83	507	10.70	11.39	2	0.04	0.04
	Total	282	4.46	4.90	571	9.96	9.95	7	0.12	0.11
Thrissur	Rural	46	3.37	1.70	169	6.26	8.26	3	0.11	0.22
	Urban	261	10.29	7.81	500	15.08	15.78	2	0.06	0.06
	Total	307	7.44	5.08	669	11.12	12.67	5	0.08	0.13
Palakkad	Rural	62	2.46	2.23	126	4.53	5.04	4	0.14	0.11
	Urban	110	3.54	4.98	305	13.87	9.07	1	0.05	0.04
	Total	172	2.94	3.44	431	8.66	6.85	5	0.10	0.08
Malappuram	Rural	63	1.71	1.08	118	2.03	2.37	6	0.10	0.11
	Urban	147	4.38	4.76	330	10.73	10.36	3	0.10	0.06
	Total	210	2.71	2.36	448	5.05	5.35	9	0.10	0.09
Kozhikode	Rural	18	2.14	1.07	42	2.50	4.83	5	0.30	0.31
	Urban	688	10.61	15.34	787	17.83	17.61	4	0.09	0.02
	Total	706	8.45	11.45	829	13.60	14.34	9	0.15	0.09
Wayanad	Rural	77	5.38	6.28	48	3.94	11.00	2	0.16	0.18
	Urban	17	1.70	5.29	33	10.32	11.07	1	0.31	0.28
	Total	94	4.50	6.08	81	5.27	11.02	3	0.20	0.20
Kannur	Rural	85	7.16	6.84	59	4.78	6.54	3	0.24	0.17
	Urban	236	5.19	7.46	228	7.26	7.58	2	0.06	-
	Total	321	5.76	7.28	287	6.56	7.28	5	0.11	0.05
Kasaragod	Rural	14	4.89	1.12	69	5.51	8.82	4	0.32	0.09
	Urban	114	13.05	9.55	100	8.46	10.74	1	0.08	0.09
	Total	128	9.08	5.23	169	6.94	9.80	5	0.21	0.09
State	Rural	705	3.07	2.65	1318	4.97	5.77	54	0.20	0.19
	Urban	2462	6.68	7.13	4192	12.23	12.36	23	0.07	0.04
	Total	3167	5.14	5.18	5510	9.07	9.53	77	0.13	0.12

Table 2 - Census Population of Districts - 1991

Rural, Urban and Sex wise

(Population in '000)

Sl No	District	Population of towns					Population of towns 10,000 & above	
		Total	Rural		Urban		Male	Female
			Male	Female	Male	Female		
1	2	3	4	5	6	7	8	9
1	Thiruvananthapuram	2947	1115	1156	333	343	333	343
2	Kollam	2408	1073	1112	110	113	110	113
3	Pathanamthitta	1188	501	532	75	80	62	67
4	Alappuzha	2001	809	853	167	172	155	161
5	Kottayam	1828	804	806	109	109	76	76
6	Idukki	1078	526	511	20	21	20	21
7	Eranakulam	2817	950	950	459	458	387	382
8	Thrissur	2737	1190	1291	123	133	91	98
9	Palakkad	2382	1017	1081	139	145	139	145
10	Malappuram	3096	1381	1456	127	132	127	132
11	Kozhikode	2620	1051	1077	242	250	242	250
12	Wayanad	672	330	319	12	11	-	-
13	Kannur	2252	919	966	180	187	113	116
14	Kasaragod	1072	476	489	53	54	53	54
	State	29098	12142	12599	2149	2208	1908	1958

Table 3 - Total No. of Live Births, Deaths, Still Births, Infant Deaths & Maternal Deaths in Corporations and Municipalities having a Population of 30,000 & above

Sl No	Corporations/ Municipalities	Births			Deaths			Still Births	Infant deaths	Maternal deaths
		Total	Male	Female	Total	Male	Female			
1	2	3	4	5	6	7	8	9	10	11
1	Neyyattinkara	2942	1492	1450	327	200	127	-	2	-
2	Thiruvananthapuram Corpn.	38535	19210	19325	8872	4474	4398	354	758	1
3	Nedumangad	1580	801	779	233	151	82	-	3	-
4	Attingal	1452	757	695	149	91	58	1	-	-
5	Varkala	1968	1030	938	273	152	121	11	5	-
6	Kollam	16125	9259	7866	2050	1310	740	18	134	2
7	Punalur	3393	1644	1749	452	282	170	6	16	-
8	Paravurr	416	196	220	158	97	61	-	-	-
9	Pathanamthitta	3073	1469	1604	377	207	170	21	29	-
10	Thiruvalla	5058	2589	2469	909	578	331	5	84	-
11	Alappuzha	12365	6551	5814	2420	1430	990	133	228	1
12	Cherthala	2506	1240	1266	524	311	213	6	13	-
13	Kayamkulam	3977	2097	1880	397	226	171	7	4	-
14	Changanassery	2978	1522	1456	281	156	125	1	18	1
15	Kottayam	3782	1878	1904	621	408	213	21	7	1
16	Thodupuzha	5019	2578	2441	491	305	186	10	42	-
17	Angamali	3106	1621	1485	597	319	278	4	44	-

1	2	3	4	5	6	7	8	9	10	11
18	Kalamassery	-	-	-	104	56	48	-	-	-
19	Kochin Corpn.	20917	10753	10164	5944	3711	2233	119	349	1
20	Kothamangalam	4548	2288	2260	453	241	212	26	33	-
21	Thrippunithura	3105	1657	1448	413	218	195	19	7	-
22	Chalakkudy	3934	2040	1894	399	242	157	6	31	-
23	Chavakkad	1890	955	935	229	123	106	11	9	-
24	Kodungallur	4985	2554	2431	375	230	145	3	29	-
25	Thrissur	17000	7824	9176	2625	1380	1245	231	407	2
26	Chittur- Thathamangalam	1226	609	617	238	137	101	-	10	-
27	Ottappalam	6744	3439	3305	609	339	270	9	72	-
28	Palakkad	13014	6872	6142	1617	929	688	95	218	1
29	Shornur	996	531	465	266	153	113	6	5	-
30	Malappuram	5151	2673	2478	358	222	136	34	39	2
31	Manjeri	7354	3721	3633	295	156	139	74	133	-
32	Perinthalmanna	9560	4852	4708	1038	536	502	14	105	-
33	Ponnai	1249	685	564	247	151	96	11	8	-
34	Thirur	7448	3580	3868	597	291	306	14	45	1
35	Kozhikode Corp.	36852	17581	19271	8183	4207	3976	667	770	4
36	Vadakara	6425	3301	3124	568	325	243	20	15	-
37	Quilandy	874	458	416	306	159	147	1	2	-
38	Kannur	4710	2453	2257	586	341	245	13	58	1
39	Mattannur	2756	1397	1359	170	94	76	3	1	-
40	Payyannur	6248	3145	3103	576	345	231	62	24	-
41	Thalassery	11040	5812	5228	1486	877	609	106	92	1
42	Thaliparamba	4496	2451	2045	328	189	139	43	38	-
43	Koothuparamba	2162	1129	1033	291	150	141	9	15	-
44	Kanjhangad	4007	2010	1997	573	301	272	22	43	-
45	Kasaragod	7816	3918	3898	521	321	200	92	57	1

Table 4 – Total No. of Births, Deaths, Still births, Infant deaths and Maternal deaths in Corporations & Municipalities having a Population of 30,000 and above - District wise

Sl No	District	Births	Deaths	Still births	Infant deaths	Maternal deaths
1	2	3	4	5	6	7
1	Thiruvananthapuram	46477	9854	366	768	1
2	Kollam	19934	2660	24	150	2
3	Pathanamthitta	8131	1286	26	113	-
4	Alappuzha	18848	3341	146	245	-
5	Kottayam	6760	902	22	25	2
6	Idukki	5019	491	10	42	-
7	Eranakulam	31676	7511	168	431	1
8	Thrissur	27809	3628	251	476	2
9	Palakkad	21980	2730	110	305	1
10	Malappuram	30762	2535	147	330	3
11	Kozhikode	44151	9057	688	787	4
12	Wayanadu	-	-	-	-	-
13	Kannur	31412	3437	236	228	2
14	Kasaragod	11823	1094	114	100	1

Table 5 – Total number of vital events and its rates in Corporations/municipalities

Corporations/ Municipalities	Live birth		Death		Still birth		Infant death		Maternal death	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1	2	3	4	5	6	7	8	9	10	11
1. Neyyattinkara	2942	91.63	327	10.18	-	-	2	0.68	-	-
2. Thiruvananthapuram Corpn.	38535	69.84	8872	16.08	354	9.10	758	19.67	1	0.03
3. Attingal	1452	41.87	149	4.30	1	0.69	-	-	-	-
4. Nedumangad	1580	29.26	233	4.31	-	-	3	1.90	-	-
5. Varkala	1968	46.29	273	6.62	11	5.56	5	2.54	-	-
6. Kollam	16125	114.30	2050	14.53	18	1.12	134	8.31	2	0.12
7. Paravoor	416	10.87	158	4.13	-	-	-	-	-	-
8. Punalur	3393	70.02	452	8.46	6	1.77	16	4.72	-	-
9. Thiruvalla	5058	89.09	909	16.01	5	0.99	84	16.61	-	-
10. Adoor	2960	106.72	529	19.07	30	10.03	21	7.09	-	-
11. Pathanamthitta	3073	81.16	377	9.96	21	6.79	29	9.44	-	-
12. Alappuzha	12365	69.57	2420	13.62	133	10.64	228	18.44	1	0.08
13. Mavelikkara	4633	157.41	507	17.23	16	3.44	26	5.61	-	-
14. Kayamkulam	3977	55.92	397	5.58	7	1.76	4	1.01	-	-
15. Cherthala	2506	55.41	524	11.59	6	2.39	13	5.19	-	-
16. Chengannur	1324	49.90	281	10.59	8	6.01	11	8.31	-	-
17. Changanassery	2978	56.44	281	5.33	1	0.34	18	6.04	1	0.34
18. Vaikom	1509	67.93	216	9.72	4	2.64	3	1.99	-	-
19. Thodupuzha	5019	113.78	491	11.13	10	19.88	42	8.37	-	-
20. Palai	3125	141.66	304	13.78	21	6.68	22	7.04	-	-
21. Kottayam	3782	60.65	621	9.96	21	5.55	7	1.85	1	0.26
22. Kochin Corpn.	20917	34.88	5944	9.91	119	5.66	349	16.68	1	0.05
23. Aluva	5260	215.05	465	19.01	21	3.98	23	4.37	-	-
24. Parur North	3984	137.46	465	16.04	21	5.24	20	5.02	-	-
25. Perumbavoor	2882	111.97	317	12.31	8	2.77	16	5.55	-	-
26. Kothamangalam	4548	122.41	453	12.19	26	5.68	33	7.26	-	-
27. Muvattupuzha	3585	123.01	309	10.60	12	3.37	15	4.18	-	-
28. Thrippunithura	3105	55.02	413	7.32	19	6.08	7	2.25	-	-
29. Kalamassery		-	-	104	1.67	-	-	-	-	-

Table 5 – contd.

Corporations/ Municipalities	Live birth		Death		Still birth		Infant death		Maternal death	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1	2	3	4	5	6	7	8	9	10	11
30. Angamali	3106	97.71	597	18.78	4	1.29	44	14.16	-	-
31. Guruvayoor TS	949	43.40	161	7.36	1	1.05	1	1.05	-	-
32. Kunnankulam	2380	120.23	262	13.23	6	2.51	9	3.78	-	-
33. Thrissur	17000	234.24	2625	36.17	231	1.34	407	23.94	2	0.12
34. Kodungallur	4985	149.92	375	11.29	3	0.60	29	5.82	-	-
35. Chalakkudy	3934	83.34	399	8.45	6	1.52	31	7.88	-	-
36. Irinjakkuda	2012	70.81	276	9.71	4	1.98	14	6.96	-	-
37. Chavakkad	1890	47.08	229	5.70	11	5.79	9	4.76	-	-
38. Palakkad	13014	98.90	1617	12.29	95	7.25	218	16.75	1	0.08
39. Ottappalam	6744	101.32	609	49.15	9	1.33	72	10.68	-	-
40. Chittur-Thatha- mangalam	1226	36.99	238	7.18	-	-	10	8.16	-	-
41. Shornur	996	23.36	266	6.24	6	5.99	5	5.02	-	-
42. Perinthalmanna	9560	215.48	1038	23.39	14	1.46	105	10.98	14	1.46
43. Ponnai	1249	21.32	247	4.26	11	8.73	8	6.41	-	-
44. Tirur	7448	133.34	597	10.69	14	1.88	45	6.04	1	0.13
45. Malappuram	5151	90.04	358	6.28	34	6.56	39	7.57	2	0.39
46. Manjeri	7354	90.49	295	3.63	74	9.96	133	18.98	74	10.06
47. Vadagara	6425	82.15	568	7.26	20	3.31	15	2.33	-	-
48. Quilandy	874	-	306	-	1	-	2	-	-	-
49. Kozhikkode Corp	36852	84.38	8183	18.74	667	17.78	770	20.89	4	0.71
50. Kalpetta	3199	118.71	240	8.91	17	5.29	33	10.32	-	-
51. Tellicherry	11040	138.77	1486	18.68	106	9.51	92	8.33	1	0.01
52. Payyannur	6248	87.58	576	8.07	62	9.83	24	3.84	-	-
53. Kannur	4710	69.12	586	8.60	13	2.75	58	12.31	1	0.21
54. Thalipparamba	4496	105.76	328	7.72	43	9.47	38	8.45	-	-
55. Mattannur	2756	58.78	170	3.63	3	10.87	1	0.36	-	-
56. Kuthupparamba	2162	67.68	291	9.11	9	4.15	15	6.94	-	-
57. Kanjhangad	4007	61.23	573	8.76	22	5.46	43	10.73	-	-
58. Kasaragod	7816	141.78	521	9.45	92	11.63	57	7.29	1	0.12

Table 6 – Live Birth by type of attention at Delivery – Rural and Urban

(Rural and Urban)

Sl No	District	Rural					
		Domiciliary					
		Total	Institutional	Physician/Nurse/ trained midwife	Unqualified midwife	Others	NR
1	2	3	4	5	6	7	8
1	Thiruvananthpura	59530	12952	28	59	3	11
2	Kollam	43401	23047	286	71	8	13
3	Pathanamthitta	19513	8274	58	79	4	7
4	Alappuzha	30575	5522	119	126	2	1
5	Kottayam	35245	23805	28	16	-	2
6	Idukki	19049	13274	58	692	1	5
7	Eranakulam	57313	9897	20	6	1	2
8	Thrissur	60135	26607	136	237	2	3
9	Palakkad	49764	25583	907	1286	5	3
10	Malappuram	88791	44831	1163	12017	11	7
11	Kozhikode	60937	16217	76	487	2	4
12	Wayanad	15374	10368	742	973	54	38
13	Kannur	43750	11536	272	526	1	3
14	Kasaragod	24350	10572	303	1614	26	12
	State	607727	242485	4196	18189	120	111

Table 6 (contd.)

Sl No	District	Urban Towns with Population									
		Below 30,000					Above 30,000				
		Institutional	Physician/Nurse/ trained midwife	Unqualified midwife	Others	NR	Institutional	Physician/Nurse/ trained midwife	Unqualified midwife	Others	NR
1	2	9	10	11	12	13	14	15	16	17	18
1	Thiruvananthapuram	-	-	-	-	-	46126	328	13	4	6
2	Kollam	-	-	-	-	-	19778	171	19	5	3
3	Pathanamthitta	2939	12	6	3	-	8108	14	7	2	-
4	Alappuzha	5921	23	11	1	1	18800	32	13	1	2
5	Kottayam	4624	6	4	-	-	6734	18	7	1	-
6	Idukki	-	-	-	-	-	4980	28	6	4	1
7	Eranakulam	15696	11	3	-	1	31641	24	7	3	1
8	Thrissur	5334	4	2	-	1	27782	19	6	1	1
9	Palakkad	-	-	-	-	-	21917	34	23	2	4
10	Malappuram	-	-	-	-	-	30023	238	496	2	3
11	Kozhikode	-	-	-	-	-	44079	49	22	-	1
12	Wayanad	2945	148	106	-	-	-	-	-	-	-
13	Kannur	-	-	-	-	-	31363	31	14	3	1
14	Kasaragod	-	-	-	-	-	11758	39	21	3	2
	State	37459	204	132	4	3	303089	1025	654	31	25

Table 7 – Live birth according to order of Birth and Literacy of Mother – Kerala (Rural)

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	1493	55262	49014	10829	171	116769
02	1364	47726	40124	6716	243	96173
03	1089	22105	10127	834	106	34261
04	527	8401	1838	71	49	10886
05	313	3425	403	7	26	4174
06	127	1376	74	-	6	1583
07	89	522	23	-	8	642
08	45	336	2	-	6	389
09	38	84	-	-	4	126
10	26	31	-	-	1	58
11 & Above	14	17	-	-	2	33
Not reported	5	1	-	-	1	7
Total	5150	139286	101605	18457	623	265101

Table 8 – Live birth according to order of Birth and Literacy of Mother – Kerala (Urban)

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	1386	66239	82992	20691	68	171376
02	873	48342	59145	11026	43	119429
03	507	17527	16747	1846	21	36648
04	332	7649	2906	153	2	11042
05	143	2186	289	16	-	2634
06	105	949	17	-	-	1071
07	38	255	-	-	-	293
08	19	68	-	-	-	87
09	6	17	-	-	-	23
10	4	15	-	-	-	19
11 & Above	1	3	-	-	-	4
Not reported	-	-	-	-	-	-
Total	3414	143250	162096	33732	134	342626

Table 9 – Live birth according to order of Birth and Literacy of Mother – Kerala State

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	2879	121501	132006	31520	239	288145
02	2237	96068	99269	17742	286	215602
03	1596	39632	26874	2680	127	70909
04	859	16050	4744	224	51	21928
05	456	5611	692	23	26	6808
06	232	2325	91	-	6	2654
07	127	777	23	-	8	935
08	64	404	2	-	6	476
09	44	101	-	-	4	149
10	30	46	-	-	1	77
11 & Above	15	20	-	-	2	37
Not reported	5	1	-	-	1	7
Total	8564	282536	263701	52189	757	607727

Table 10 – Live birth according to order of Birth and Literacy of Father – Kerala (Rural)

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	1769	57763	47917	9144	176	116769
02	1893	51129	36141	6862	148	96173
03	1148	22253	9654	1087	119	34261
04	613	8096	1723	376	78	10886
05	362	2854	831	86	41	4174
06	145	1134	264	17	23	1583
07	76	471	82	-	13	642
08	41	316	28	-	4	389
09	27	97	-	-	2	126
10	9	47	-	-	2	58
11 & Above	6	24	-	-	3	33
Not reported	2	4	-	-	1	7
Total	6091	144188	96640	17572	610	265101

Table 11 – Live birth according to order of Birth and Literacy of Father – Kerala (Urban)

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	1463	68912	82672	18261	68	171376
02	924	46783	62052	9627	43	119429
03	573	18721	15684	1653	17	36648
04	208	6755	3806	265	8	11042
05	92	1462	1043	36	1	2634
06	49	833	189	-	-	1071
07	21	230	42	-	-	293
08	16	53	18	-	-	87
09	7	13	3	-	-	23
10	2	17	-	-	-	19
11 & Above	1	3	-	-	-	4
Not reported	-	-	-	-	-	-
Total	3356	143782	165509	29842	137	342626

Table 12 – Live birth according to order of Birth and Literacy of Father Kerala State

Order of birth	Literacy					Total
	Illiterate	Below Matriculation	Matriculation/ Higher secondary	Graduation and above	Not reported	
1	2	3	4	5	6	7
01	3232	126675	130589	27405	244	288145
02	2817	97912	98193	16489	191	215602
03	1721	40974	25338	2740	136	70909
04	821	14851	5529	641	86	21928
05	454	4316	1874	122	42	6808
06	194	1967	453	17	23	2654
07	97	701	124	-	13	935
08	57	369	46	-	4	476
09	34	110	3	-	2	149
10	11	64	-	-	2	77
11 & Above	7	27	-	-	3	37
Not reported	2	4	-	-	1	7
Total	9447	287970	262149	47414	747	607727

**Table 13 – Live birth according to order of Birth and Occupation of Father
Kerala (Rural)**

Order of birth	Professional technical & related workers	Administrative, Executive, & Management workers	Clerical workers	Sale workers	Service workers	Farmers, Fishermen, Hunters, Loggers & related workers	Productive and related works transport equipments & labourers	Others whose occupation is not elsewhere classified	Non workers	Total
1	2	3	4	5	6	7	8	9	10	11
01	3628	719	4631	13164	4286	15276	70561	4091	413	116769
02	2764	473	3289	10081	2374	12636	61268	3016	272	96173
03	827	134	1565	3914	783	6879	18777	1246	136	34261
04	113	6	416	1184	268	1646	6671	518	64	10886
05	9	-	132	481	147	1182	1968	241	14	4174
06	-	-	81	153	39	193	1035	82	-	1583
07	-	-	16	43	8	94	452	29	-	642
08	-	-	-	3	-	23	361	2	-	389
09	-	-	-	-	-	11	113	2	-	126
10	-	-	-	2	-	4	52	-	-	58
11 & above	-	-	-	-	2	3	28	-	-	33
NR	-	-	-	-	-	-	7	-	-	7
Total	7341	1332	10130	29025	7907	37947	161293	9227	899	265101

**Table 14 – Live birth according to order of Birth and Occupation of Father
Kerala (Urban)**

Order of birth	Professional technical & related workers	Administrative, Executive, & Management workers	Clerical workers	Sale workers	Service workers	Farmers, Fishermen, Hunters, Loggers & related workers	Productive and related works transport equipments & labourers	Others whose occupation is not elsewhere classified	Non workers	Total
1	2	3	4	5	6	7	8	9	10	11
01	4837	1521	7083	19314	4464	13218	115141	4816	982	171376
02	3478	1092	5316	14216	3783	10437	76965	3629	513	119429
03	608	118	1081	4613	1434	3801	24184	773	36	36648
04	49	13	198	1763	486	721	7633	176	3	11042
05	2	-	61	416	83	133	1910	29	-	2634
06	-	-	8	121	28	39	861	14	-	1071
07	-	-	2	67	13	17	188	6	-	293
08	-	-	-	28	4	9	45	1	-	87
09	-	-	-	4	-	3	16	-	-	23
10	-	-	-	-	-	1	18	-	-	19
11 & above	-	-	-	1	-	-	3	-	-	4
NR	-	-	-	-	-	-	-	-	-	-
Total	8974	2744	13749	40543	10295	28379	226964	9444	1534	342626

**Table 15 – Live birth according to order of Birth and Occupation of Father
Kerala State**

Order of birth	Professional technical & related workers	Administrative, Executive, & Management workers	Clerical workers	Sale workers	Service workers	Farmers, Fishermen, Hunters, Loggers & related workers	Productive and related works transport equipments & labourers	Others whose occupation is not elsewhere classified	Non workers	Total
1	2	3	4	5	6	7	8	9	10	11
01	8465	2240	11714	32478	8750	28494	185702	8907	1395	288145
02	6242	1565	8605	24297	6157	23073	138233	6645	785	215602
03	1435	252	2646	8527	2217	10680	42961	2019	172	70909
04	162	19	614	2947	754	2367	14304	694	67	21928
05	11	-	193	897	230	1315	3878	270	14	6808
06	-	-	89	274	67	232	1896	96	-	2654
07	-	-	18	110	21	111	640	35	-	935
08	-	-	-	31	4	32	406	3	-	476
09	-	-	-	4	-	14	129	2	-	149
10	-	-	-	2	-	5	70	-	-	77
11 & above	-	-	-	1	2	3	31	-	-	37
NR	-	-	-	-	-	-	7	-	-	7
Total	16315	4076	23879	69568	18202	66326	388257	18671	2433	607727

Table 16 – Live birth by order of Birth and Age of Mother – Kerala (Rural)

Order of Birth	Age of mother									
	Below 15 yrs.	15-19	20-24	25-29	30-34	35-39	40-44	45 & above	Not reported	All ages
1	2	3	4	5	6	7	8	9	10	11
01	9	23384	64388	24634	3652	671	31	-	-	116769
02	-	2823	46016	37429	8843	1034	28	-	-	96173
03	-	287	11852	16518	4681	902	21	-	-	34261
04	-	-	1832	5287	3026	696	41	4	-	10886
05	-	-	184	1621	1698	589	71	11	-	4174
06	-	-	12	398	633	483	51	6	-	1583
07	-	-	-	132	211	243	49	7	-	642
08	-	-	-	14	123	216	31	5	-	389
09	-	-	-	-	24	53	37	11	1	126
10	-	-	-	-	13	19	22	4	-	58
11 & above	-	-	-	-	7	10	13	2	1	33
NR	-	-	1	1	2	1	-	1	1	7
Total	9	26494	124285	86034	22913	4917	395	51	3	265101

Table 17 – Live birth by order of Birth and Age of Mother – Kerala (Urban)

Order of Birth	Age of mother									
	Below 15 yrs.	15-19	20-24	25-29	30-34	35-39	40-44	45 & above	Not reported	All ages
1	2	3	4	5	6	7	8	9	10	11
01	-	25821	90098	46681	8186	587	3	-	-	171376
02	-	3273	49542	51624	14456	523	11	-	-	119429
03	-	107	11839	17542	6364	781	15	-	-	36648
04	-	-	1587	5302	3373	761	19	-	-	11042
05	-	-	103	1160	826	483	53	9	-	2634
06	-	-	27	341	440	220	41	2	-	1071
07	-	-	4	33	96	136	23	1	-	293
08	-	-	-	6	19	46	14	2	-	87
09	-	-	-	-	5	11	6	1	-	23
10	-	-	-	-	3	11	5	-	-	19
11 & above	-	-	-	-	1	2	1	-	-	4
NR	-	-	-	-	-	-	-	-	-	-
Total	-	29201	153200	122689	33769	3561	191	15	-	342626

Table 18 – Live birth by order of Birth and Age of Mother – Kerala State 1997

Order of Birth	Age of mother									
	Below 15 yrs.	15-19	20-24	25-29	30-34	35-39	40-44	45 & above	Not reported	All ages
1	2	3	4	5	6	7	8	9	10	11
01	9	49205	154486	71315	11838	1258	34	-	-	288145
02	-	6096	95558	89053	23299	1557	39	-	-	215602
03	-	394	23691	34060	11045	1683	36	-	-	70909
04	-	-	3419	10589	6399	1457	60	4	-	21928
05	-	-	287	2781	2524	1072	124	20	-	6808
06	-	-	39	739	1073	703	92	8	-	2654
07	-	-	4	165	307	379	72	8	-	935
08	-	-	-	20	142	262	45	7	-	476
09	-	-	-	-	29	64	43	12	1	149
10	-	-	-	-	16	30	27	4	-	77
11 & above	-	-	-	-	8	12	14	2	1	37
NR	-	-	1	1	2	1	-	1	1	7
Total	9	55695	277485	208723	56682	8478	586	66	3	607727

Table 19 – Live birth by age of Mother in Corporations and Municipalities – Kerala

Corporations/ Municipalities	Age of mother									Total
	Below 15 yrs	15-19	20-24	25-29	30-34	35-39	40-44	45 & above	NR	
1	2	3	4	5	6	7	8	9	10	11
1. Neyyattinkara	-	139	1438	899	448	18	-	-	-	2942
2. Thiruvananthapuram Corpn.	-	1727	16221	17205	2815	564	3	-	-	38535
3. Attingal	-	41	742	425	233	11	-	-	-	1452
4. Nedumangad	-	135	839	471	119	14	1	1	-	1580
5. Varkala	-	146	785	754	234	49	-	-	-	1968
6. Kollam	-	362	7775	6577	1244	157	10	-	-	16125
7. Paravoor	-	40	205	137	32	2	-	-	-	416
8. Punalur	-	113	1762	1212	281	25	-	-	-	3393
9. Thiruvalla	-	70	1942	2110	821	112	3	-	-	5058
10. Adoor	-	36	1679	1142	90	13	-	-	-	2960
11. Pathanamthitta	-	155	1302	1124	442	50	-	-	-	3073
12. Mavelikkara	-	132	1967	1954	495	85	-	-	-	4633
13. Kayamkulam	-	179	1917	1347	495	39	-	-	-	3977
14. Cherthala	-	46	1120	1058	245	36	1	-	-	2506
15. Chengannur	-	24	507	564	209	18	2	-	-	1324
16. Alappuzha	-	180	6514	4121	1456	93	1	-	-	12365
17. Changanassery	-	114	1186	1229	378	71	-	-	-	2978
18. Vaikom	-	5	297	1021	174	12	-	-	-	1509
19. Pala	-	57	922	1364	679	103	-	-	-	3125
20. Kottayam	-	73	1001	1673	524	71	-	-	-	3782
21. Kochi Corpn.	-	127	10028	8918	1729	113	2	-	-	20917
22. Aluva	-	49	1822	2855	507	26	1	-	-	5260
23. Parur North	-	43	1908	1507	489	37	-	-	-	3984
24. Perumbavoor	-	33	1289	1257	263	40	-	-	-	2882
25. Kothamangalam	-	85	1981	2261	213	8	-	-	-	4548
26. Moovattupuzha	-	76	1532	1525	378	73	1	-	-	3585
27. Thrissur	-	39	1145	1440	424	55	2	-	-	3105
28. Kalamassery	-	-	-	-	-	-	-	-	-	-

Table 19 – contd.

Corporations/ Municipalities	Live birth		Death		Still birth		Infant death		Maternal death	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
I	2	3	4	5	6	7	8	9	10	11
29. Angamali	-	11	1369	1444	269	12	1	-	-	3106
30. Thodupuzha	-	91	2195	2451	212	63	7	-	-	5019
31. Guruvayoor TS	-	37	559	267	81	5	-	-	-	949
32. Kunnamkulam	-	149	991	699	509	32	-	-	-	2380
33. Thrissur	-	605	7474	6280	2394	243	4	-	-	17000
34. Kodungallur	-	146	2686	1710	400	43	-	-	-	4985
35. Chalakkudy	-	41	2084	1515	264	30	-	-	-	3934
36. Irinjalakkuda	-	55	877	903	159	18	-	-	-	2012
37. Chavakkad	-	100	1052	591	123	24	-	-	-	1890
38. Palakkad	-	1006	6085	4766	1031	119	7	-	-	13014
39. Ottappalam	-	1142	3254	1744	528	72	4	-	-	6744
40. Chittur-Thatha- mangalam	-	115	580	422	85	24	-	-	-	1226
41. Shoranur	-	118	447	312	110	9	-	-	-	996
42. Perinthalmanna	-	1731	5433	1771	495	114	11	5	-	9560
43. Ponnani	-	32	529	420	198	63	6	1	-	1249
44. Tirur	-	274	3982	2723	409	54	6	-	-	7448
45. Malappuram	-	101	2520	1964	406	141	19	-	-	5151
46. Manjeri	-	1119	3471	2042	545	155	16	6	-	7354
47. Vadakara	-	673	3282	1936	441	93	-	-	-	6425
48. Kozhikode Corp	-	2198	18683	14934	1758	261	14	4	-	36852
49. Kalpetta	-	427	1496	859	326	89	2	-	-	3199
50. Tellicherry	-	641	5812	3582	850	150	5	-	-	11040
51. Payyannur	-	416	3340	2042	385	62	3	-	-	6248
52. Kannur	-	123	2321	1606	518	125	17	-	-	4710
53. Thaliparamba	-	182	2187	1674	395	52	6	-	-	4496
54. Mattannur	-	152	1339	987	247	24	7	-	-	2756
55. Kuthupparambu	-	71	1231	785	68	5	2	-	-	2162
56. Kanjhangad	-	28	1608	1510	477	380	4	-	-	4007
57. Kasaragod	-	115	3409	3008	971	295	16	2	-	7816

Table 20 – Live birth by Religion in the Corporations and Municipalities of Kerala

Sl No	Corporations/ Municipalities	Hindu	Muslims	Christian	Others	Total
1	2	3	4	5	6	7
1.	Neyyattinkara	1407	573	962	-	2942
2.	Thiruvananthapuram Corpn.	26131	7839	4556	9	38535
3.	Attingal	911	533	8	-	1452
4.	Nedumangad	1078	292	210	-	1580
5.	Varkala	1318	589	61	-	1968
6.	Kollam	10497	3288	2340	-	16125
7.	Paravoor	368	40	8	-	416
8.	Punalur	2105	619	668	1	3393
9.	Thiruvalla	2099	167	2792	-	5058
10.	Adoor	1963	270	727	-	2960
11.	Pathanamthitta	1904	360	809	-	3073
12.	Mavelikkara	3647	152	830	4	4633
13.	Kayamkulam	2759	955	263	-	3977
14.	Cherthala	1836	204	466	-	2506
15.	Chengannur	893	59	372	-	1324
16.	Alappuzha	7619	2086	2658	2	12365
17.	Changanassery	1701	265	1009	3	2978
18.	Vaikom	1298	61	150	-	1509
19.	Palai	1352	151	1620	2	3125
20.	Kottayam	1845	264	1671	2	3782
21.	Kochin Corpn.	9472	4131	7314	-	20917
22.	Aluva	2552	1853	855	-	5260
23.	Parur North	2469	707	808	-	3984
24.	Perumbavoor	1366	646	870	-	2882
25.	Kothamangalam	1463	944	2141	-	4548
26.	Muvattupuzha	1730	901	954	-	3585
27.	Thrippunithura	2275	167	662	1	3105
28.	Kalamassery	-	-	-	-	-

Table 20 – contd.

Sl No	Corporations/ Municipalities	Hindu	Muslims	Christian	Others	Total
1	2	3	4	5	6	7
29.	Angamali	789	76	2241	-	3106
30.	Thodupuzha	1960	796	2255	8	5019
31.	Guruvayoor TS	725	192	30	2	949
32.	Kunnamkulam	1376	784	217	3	2380
33.	Thrissur	10970	1742	4284	4	17000
34.	Kodungallur	3021	1578	386	-	4985
35.	Chalakkudy	2193	127	1614	-	3934
36.	Irinjalakkuda	1684	63	264	1	2012
37.	Chavakkad	1246	592	52	-	1890
38.	Palakkad	9793	2876	342	3	13014
39.	Ottappalam	4437	2242	61	4	6744
40.	Chittur-thathamangalam	958	234	34	-	1226
41.	Shornur	812	167	17	-	996
42.	Perinthalmanna	2449	6902	209	-	9560
43.	Ponnani	233	1016	-	-	1249
44.	Tirur	2350	5096	2	-	7448
45.	Malappuram	1876	3247	27	1	5151
46.	Manjeri	2232	4974	146	2	7354
47.	Vadakara	2193	3939	292	1	6425
48.	Kozhikode Corp	20162	15144	1541	5	36852
49.	Quilandy	494	375	5	-	874
50.	Kalpetta	1338	1247	613	1	3199
51.	Tellicherry	6886	3759	394	1	11040
52.	Payyannur	4357	1445	444	2	6248
53.	Kannur	1752	2838	120	-	4710
54.	Thaliparamba	2101	1509	885	1	4496
55.	Mattannur	1463	920	374	2	2759
56.	Kuthupparambu	1369	499	294	-	2162
57.	Kanjhangad	1829	1712	466	-	4007
58.	Kasaragod	2940	4716	158	2	7816

Table 21 – Live birth by Religion in Kerala (District wise)

District	R/U	Total Births	Hindus	Muslims	Christians	Others
1	2	3	4	5	6	7
1. Thiruvananthapuram	Rural	13053	8883	2677	1474	19
	Urban	46477	30845	9826	5797	9
	Total	59530	39728	12503	7271	28
2. Kollam	Rural	23425	13795	4872	4747	11
	Urban	19976	13012	3935	3029	-
	Total	43401	26807	8807	7776	11
3. Pathanamthitta	Rural	5770	4186	327	1251	6
	Urban	11091	5966	1203	3922	-
	Total	16861	10152	1530	5173	6
4. Alappuzha	Rural	8422	4512	705	3205	-
	Urban	24805	15832	4543	4424	6
	Total	33227	20344	5248	7629	6
5. Kottayam	Rural	23851	11208	1345	11297	1
	Urban	11394	6196	741	4450	7
	Total	35245	17404	2086	15747	8
6. Idukki	Rural	14030	6362	1139	6521	8
	Urban	5019	1960	796	2255	8
	Total	19049	8322	1935	8776	16
7. Ernakulam	Rural	9926	4054	728	5138	6
	Urban	47387	22166	9329	15891	1
	Total	57313	26220	10057	21029	7
8. Thrissur	Rural	26985	15229	6270	5484	2
	Urban	33150	21215	5078	6847	10
	Total	60135	36444	11348	12331	12
9. Palakkad	Rural	27784	17197	9628	951	8
	Urban	21980	15990	5519	464	7
	Total	49764	33187	15147	1415	15
10. Malappuram	Rural	58029	12831	44088	1104	6
	Urban	30762	9140	21235	384	3
	Total	88791	21971	65323	1488	9
11. Kozhikode	Rural	16786	6036	9078	1667	5
	Urban	44151	22849	19458	1838	6
	Total	60937	28885	28536	3505	11
12. Wayanad	Rural	12175	5847	3684	2630	14
	Urban	3199	1338	1247	613	1
	Total	15374	7185	4931	3243	15
13. Kannur	Rural	12338	5298	4962	2075	3
	Urban	31412	17926	10970	2510	6
	Total	43750	23224	15932	4585	9
14. Kasaragod	Rural	12527	5532	6214	781	-
	Urban	11823	4769	6428	624	2
	Total	24350	10301	12642	1405	2
State	Rural	265101	120970	95717	48325	89
	Urban	342626	189204	100308	53048	66
	Total	607727	310174	196025	101373	155

Table 22 – Month wise distribution of Live births in Kerala (Rural/Urban)

SI No	Month	Rural	Urban	Total
1	2	3	4	5
1	January	22275	28882	51157
2	February	22119	27272	49391
3	March	22158	28636	50794
4	April	21969	28777	50746
5	May	22141	29565	51706
6	June	22161	28016	50177
7	July	22002	28532	50534
8	August	22032	28738	50770
9	September	21916	27890	49806
10	October	22174	28805	50979
11	November	22010	28496	50506
12	December	22144	29017	51161
Total		265101	341626	606727

Table 23 – Sex ratio of Live births in Kerala (District wise)

District	Rural/ Urban	Male	Female	Sex ratio
1	2	3	4	5
1. Thiruvananthapuram	Rural	6565	6488	988
	Urban	23290	23187	996
	Total	29855	29675	994
2. Kollam	Rural	11388	12037	1057
	Urban	10099	9877	978
	Total	21487	21914	1020
3. Pathanamthitta	Rural	4137	4285	1036
	Urban	5608	5483	978
	Total	9745	9768	1002
4. Alappuzha	Rural	2856	2914	1020
	Urban	12920	11885	920
	Total	15776	14799	938
5. Kottayam	Rural	13041	10810	829
	Urban	5730	5664	988
	Total	18771	16474	878
6. Idukki	Rural	7277	6753	928
	Urban	2578	2441	946
	Total	9855	9194	933
7. Ernakulam	Rural	24579	5041	1032
	Urban	24579	22808	929
	Total	29464	27849	945
8. Thrissur	Rural	12299	14686	1194
	Urban	16134	17016	1055
	Total	28433	31702	1115
9. Palakkad	Rural	14140	13644	965
	Urban	11451	10529	919
	Total	25591	24173	945
10. Malappuram	Rural	29237	28792	985
	Urban	15511	15251	983
	Total	44748	44043	984
11. Kozhikode	Rural	8245	8540	1036
	Urban	21340	22811	1069
	Total	29586	31351	1060
12. Wayanad	Rural	6261	5914	944
	Urban	1665	1533	920
	Total	7927	7447	939
13. Kannur	Rural	6016	6322	1051
	Urban	16387	15025	917
	Total	22403	21347	953
14. Kasargod	Rural	6377	6150	964
	Urban	5928	5895	994
	Total	12305	12045	979
State	Rural	132725	132376	997
	Urban	173221	169405	978
	Total	305946	301781	986

Table 24 – Month wise distribution of Deaths in Kerala (Rural/Urban)

Sl No	Month	Rural	Urban	Total
1	2	3	4	5
1	January	9599	4518	14117
2	February	9324	4019	13343
3	March	9317	4475	13792
4	April	9153	4220	13373
5	May	9198	4545	13743
6	June	9210	4240	13450
7	July	9623	4496	14119
8	August	9770	4528	14298
9	September	9486	4348	13834
10	October	9581	4506	14087
11	November	9233	4278	13511
12	December	10118	4643	14761
	Total	113612	52816	166428

Table 25 – Deaths by Age and Sex in Kerala

Sl No	Age Group (year)	Rural			Urban			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
1	Below 1	767	551	1318	2213	1974	4187	2980	2525	5505
2	1 – 4	289	268	557	364	343	707	653	611	1264
3	5 – 14	436	338	774	396	308	704	832	646	1478
4	15 – 24	1148	911	2059	1056	776	1832	2204	1687	3891
5	25 – 34	1973	1409	3382	1728	1124	2852	3701	2533	6234
6	35 – 44	3461	1887	5348	2086	936	3022	5547	2823	8370
7	45 – 54	7408	4582	11990	4163	1724	5887	11571	6306	17877
8	55 – 64	11941	7356	19297	4797	2988	7785	16738	10344	27082
9	65 & above	36102	31625	37797	12746	12832	25578	48848	44527	93375
10	Not reported	616	474	1090	161	101	262	777	575	1352
	Total	64141	49471	113612	29710	23106	52816	93851	72577	166428

Table 26 – Death by Religion in Kerala (District wise)

District	Rural/ Urban	Hindus	Muslims	Christians	Others	Total
1	2	3	4	5	6	7
1. Thiruvananthapuram	Rural	6614	871	1536	3	9024
	Urban	7144	1072	1638	-	9854
	Total	13758	1943	3174	3	18878
2. Kollam	Rural	7223	1501	1259	3	9986
	Urban	1767	394	451	6	2618
	Total	8990	1895	1710	9	12604
3. Pathanamthitta	Rural	2971	589	1780	-	5340
	Urban	936	101	778	-	1815
	Total	3907	690	2558	-	7155
4. Alappuzha	Rural	5686	618	1386	1	7691
	Urban	2763	517	849	-	4129
	Total	8449	1135	2235	1	11820
5. Kottayam	Rural	5161	448	4364	-	9973
	Urban	772	59	591	-	1422
	Total	5933	507	4955	-	11395
6. Idukki	Rural	2437	147	1593	6	4183
	Urban	283	43	165	-	491
	Total	2720	190	1758	6	4674
7. Ernakulam	Rural	3917	1806	3042	3	8768
	Urban	4796	1362	2896	13	9067
	Total	8713	3168	5938	16	17835
8. Thrissur	Rural	10551	2047	1923	-	14521
	Urban	2677	611	1039	-	4327
	Total	13228	2658	2962	-	18848
9. Palakkad	Rural	7813	1883	368	1	10065
	Urban	2309	358	58	5	2730
	Total	10122	2241	426	6	12795
10. Malappuram	Rural	4133	6047	205	3	10388
	Urban	734	1705	96	-	2535
	Total	4867	7752	301	3	12923
11. Kozhikode	Rural	4795	2979	302	1	8077
	Urban	5831	2728	496	2	9057
	Total	10626	5707	798	3	17134
12. Wayanad	Rural	1525	657	571	3	2756
	Urban	118	85	37	-	240
	Total	1643	742	608	3	2996
13. Kannur	Rural	5202	2720	633	1	8556
	Urban	2426	871	140	-	3437
	Total	7628	3591	773	1	11993
14. Kasaragod	Rural	2574	1426	284	-	4284
	Urban	591	418	82	3	1094
	Total	3165	1844	366	3	5378
State	Rural	70602	23739	19246	25	113612
	Urban	33147	10324	9316	29	52816
	Total	103749	34063	28562	54	166428

Table 27 - Distribution of Death due to some specified Diseases - 1997

Sl. No.	Cause of death	Code	Rural			Urban			Total		Total
			Male	Female	Total	Male	Female	Total	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12
1	Cholera	001	9	4	13	7	4	11	16	8	24
2	Typhoid and paratyphoid	002	32	23	55	13	9	22	45	32	77
3	Food poisoning	003	7	4	11	12	7	19	19	11	30
4	Dysentery & Diarrhea, Gastroenteritis	004, 006, 009	106	98	204	196	122	318	302	220	522
5	Tuberculosis	010, 015	686	349	1035	157	89	246	843	438	1281
6	Leprosy	030	3	1	4	1	-	1	4	1	5
7	Diphtheria	032	2	2	4	2	1	3	4	3	7
8	Whooping cough	033	9	6	15	4	3	7	13	9	22
9	Tetanus	037	8	4	12	22	14	36	30	18	48
10	Poliomyelitis	045	10	7	17	6	5	11	16	12	28
11	Measles	055	26	13	39	19	15	34	45	28	73
12	Rabies	071	17	11	28	9	4	13	26	15	41
13	Malaria	084	26	16	42	14	9	23	40	25	65
14	Cancer	140-199 200-229 230-239	6241	4421	10662	1812	1355	3167	8053	5776	13829
15	Diabetes Mellitus	250	1198	987	2185	449	423	872	1647	1410	3057
16	Anemia	280-285	73	67	140	54	72	126	127	139	266
17	Meningitis	320- 322-402	49	28	77	53	36	89	102	64	166
18	Heart diseases, Heart attack	410-444	15864	8617	24481	9053	6901	15954	24917	15518	40435
19	Pneumonia	480-486	74	51	125	114	57	171	188	108	296
20	Influenza	487	986	1076	2062	37	27	64	1023	1103	2126

(Table 27 cont'd)

Sl. No.	Cause of death	Code	Rural			Urban			Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1		3	4		5	7	8	9	10	11	12
21	Bronchitis & Asthma (Respiratory diseases)	490-493	5464	4392	9856	1846	1422	3268	7310	5814	13124
22	Jaundice	782-784	198	143	341	73	35	108	271	178	449
23	Chronic Liver diseases & Cirrhoses	571	276	149	425	193	144	337	469	293	762
24	Ulcer of stomach & Duodenum (stomach complaint)	531-538	326	241	567	89	57	146	415	298	713
25	Appendicitis	540-543	2	1	3	2	1	3	4	2	6
26	Syphilis & other diseases of genitourinary system	580-629	-	-	-	-	-	1	1	-	1
27	Abortions	630-639	-	7	7	-	2	2	-	9	9
28	Complication related to pregnancy and child birth	640-648 651-676	-	54	54	-	23	23	-	77	77
29	Certain conditions such as birth injuries, slow-growth of fectus and prematurely originating in perinate period	760-779	767	551	1318	2213	1979	4192	2980	2530	5510
30	Cerebra vascular (Paralysis)	430-438	1458	1263	2721	574	389	963	2032	1652	3684
31	Senility	797	643	521	1164	634	502	1136	1277	1023	2300
32	Others not elsewhere classified	-	26819	24704	51523	10583	8612	19195	37402	33316	70718
33	External causes	-	46	32	78	23	14	37	69	46	115
34	Accidental burns	E890-99	103	68	171	109	78	187	212	146	358
35	Falls, drowning	E880-88	328	284	612	97	67	164	425	351	776
36	Accidental poisoning	E 910	76	44	120	157	47	204	233	91	324
37	Transport (traffic) accidents involving Railway, Roads, Aircraft, Motor vehicles, other vehicles, Animals being ridden or driving vehicles		683	314	997	687	176	863	1370	490	1860
38	Other Accidents not elsewhere classified	E 910	181	43	224	117	24	141	298	67	365
39	Suicide	-	1337	869	2206	267	376	643	1604	1245	2849
40	Homicide		8	6	14	11	5	16	19	11	30
	Total		64141	49471	113612	29719	23106	52816	93851	72577	166428

Table 28 – Infant death by Sex in Kerala (District wise)

District	Rural/ Urban	Male	Female	Total
1	2	3	4	5
1. Thiruvananthapuram	Rural	18	15	33
	Urban	367	401	758
	Total	385	416	801
2. Kollam	Rural	61	40	101
	Urban	86	64	150
	Total	147	104	251
3. Pathanamthitta	Rural	39	22	61
	Urban	81	53	134
	Total	120	75	195
4. Alappuzha	Rural	19	11	30
	Urban	123	135	258
	Total	142	146	288
5. Kottayam	Rural	164	86	250
	Urban	30	20	50
	Total	194	106	300
6. Idukki	Rural	71	77	148
	Urban	22	20	42
	Total	93	97	190
7. Eranakulam	Rural	42	22	64
	Urban	294	213	507
	Total	336	235	571
8. Thrissur	Rural	93	76	169
	Urban	274	226	500
	Total	367	302	669
9. Palakkad	Rural	68	58	126
	Urban	183	122	305
	Total	251	180	431
10. Malappuram	Rural	69	49	118
	Urban	176	154	330
	Total	245	203	448
11. Kozhikode	Rural	22	20	42
	Urban	386	401	787
	Total	408	421	829
12. Wayanad	Rural	31	17	48
	Urban	19	14	33
	Total	50	31	81
13. Kannur	Rural	33	26	59
	Urban	127	101	228
	Total	160	127	287
14. Kasaragod	Rural	37	32	69
	Urban	45	55	100
	Total	82	87	169
State	Rural	767	551	1318
	Urban	2213	1979	4192
	Total	2980	2530	5510

Table 29 – Infant deaths by age and sex in Kerala

Sl No	Age	Rural			Urban			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11
1	Below 1 week	486	356	842	1331	1089	2420	1817	1445	3262
2	1 week to 1 month	142	91	233	365	374	739	507	465	972
3	1 month to below 3 months	61	58	119	221	244	465	282	302	584
4	3 months to below 6 months	48	29	77	192	184	376	240	213	453
5	6 months to 12 months	30	17	47	104	88	192	134	105	239
	Total	767	551	1318	2213	1979	4192	2980	2530	5510

Table 30 – Maternal deaths in Kerala by age at Death

Sl No	Age at Death	Rural	Urban		
			Towns with population 30,000 & above	All other urban areas	Total for all areas
1	2	3	4	5	6
1	Below 15 years	-	-	-	-
2	15 – 19	3	2	1	6
3	20 – 24	17	5	-	22
4	25 – 29	24	6	1	31
5	30 – 34	7	4	1	12
6	35 – 39	2	2	-	4
7	40 – 44	1	1	-	2
8	45 & above	-	-	-	-
9	Not reported	-	-	-	-
	Total	54	20	3	77

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