



GOVERNMENT OF KERALA

**VITAL STATISTICS BULLETIN**

**No. 53**

**1989**

**DEPARTMENT OF ECONOMICS & STATISTICS**

**THIRUVANANTHAPURAM**

**1994**



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## PREFACE

This Bulletin presents the vital statistics of the State for the calendar year, 1989. The data relating to vital events received from the registering authorities are processed and vital rates estimated.

This bulletin has been prepared by the Vital Statistics Unit of this Directorate.

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Thiruvananthapuram,  
30-11-1993.



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## VITAL STATISTICS BULLETIN, 1989

The registration of births and deaths in the State is governed by the 'Birth and Death Act of 1969' and the Rules made thereunder. The Act provides for a suitable machinery for the effective registration of births and deaths. Under the above Act, the civil registration is controlled by the Director of Panchayats in the statutory capacity of "Chief Registrar of Births and Deaths". The Additional Director of Economics and Statistics is the Additional Chief Registrar of Births and Deaths. At the district level, the District Panchayat officers are empowered to function as the District Registrar of Births and Deaths. The Executive Officers of the Panchayats and the Health Inspectors and Health officers of the Municipalities and Corporations are the Local Registrars of the concerned registration units. The data relating to the vital events received from the registering authorities are compiled and analysed in the V.S. Unit of the Directorate of Economics and Statistics.

This bulletin presents the results of the analysis of vital statistics for the year, 1989.

### SOURCE OF DATA

As per the rules framed under the Birth and Death Registration Act, births and deaths are to be registered within 14 and 7 days respectively, after the occurrence of the events, at the place of occurrence. The details of each event such as data 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 in the registers maintained for the purpose. These details are then transferred 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 data are compiled and analysed.

### LIMITATION OF THE DATA

On analysis it is seen that registration of vital events is not complete as cases of under registration have been detected. Moreover the birth and death rates in the urban areas are higher than that in the rural areas. It may be due to the fact that the registration is defunct. The people in rural areas avail the modern medical facilities in urban area. Some times the ignorance of the informants, reporting vital events may adversely affect the quality of data. This is another limiting factor. All efforts are being made for making the Public conscious of the importance and necessity of registration of vital events.

## PROCESSING OF DATA

The information is about the vital events in about 5.64 birth cards and 1.46 death cards for the year under report has been processed for detailed study and analysis.

The following vital rates for the year, 1989 have been arrived on the basis of the information available from the birth and death cards.

(a) *Crude birth rate:*

Crude birth rate is the number of live births per thousand population (mid-year).

(b) *Crude death rate:*

Crude death rate is the number of deaths per thousand population (mid-year).

(c) *Infant death rate:*

Infant death rate is the number of deaths per thousand population (mid-year)

(d) *Maternal death rate:*

Maternal death rate is the number of maternal deaths per thousand live and still births.

(e) *Still birth rate:*

Still birth rate is the number of such births per thousand live and still births.

## BIRTH AND BIRTH RATES

During the year under report the details of 5.64 lakhs of registered live births, comprising of 3.13 lakhs of rural area and 2.52 lakhs of urban area have been analysed. Accordingly the registered Birth rate of the State for the year, 1989 was 19.82 as against 19.80 for the previous year. Thus a slight increase is seen in the birth rate. The rural and urban break up of the rates were 12.62 and 68.26 respectively as against 12.96 and 65.68 for the previous year. While analysing the District-wise break up of live births (Table I), it is seen that as usual Malappuram District tops the list, by registering 78303 births, the highest birth rate is also in Malappuram District (26.48). The birth rate of the Malappuram District during the previous year was 29.45. As regards rural and urban breakup, the Malappuram District comes first (22.8) among rural areas and Kannur among urban areas (121.93).

The lowest birth rate recorded was in Alappuzha (14.83). The birth rates of southern districts up to Ernakulam were lower than the State average, but the birth rates of Districts North to Ernakulam were greater than the States average.

### DEATH AND DEATH RATES

During the year under report, total number of death cards considered for analysis were 1.46 lakhs of which 1.03 lakhs were from rural areas and 0.43 lakhs from urban area. The registered Death rate of the State during the year under report was 5.14. A slight increase is noticed in the Death rate when compared with rate of previous year (5.05). The urban and rural break up is 11.66 and 4.17 respectively. The District wise analysis shows that Kozhikode District recorded the highest Death rate (62) as in previous years. The lowest death rate was in Malappuram District. The death rates in the Districts of Thiruvananthapuram, Alapuzha, Thrissur, Palghat, Kozhikkode, Kannur and Kasaragod were above the State average

### INFANT DEATH RATE

Total number of Infant Death, during the year was 7122 of which 2559 were from rural area and 4565 were from urban area. The Infants Death rate for the year was 12.63 with the rural and urban rates 8.19 and 18.14 respectively. The corresponding figures 2.52, 7.23 and 19.46 respectively during the previous year. Kozhikode District registered the Mxi-mum number of infant death (1441) while the lowest was in Wayanad District (154).

### MATERNAL DEATH RATE

During the year, 1989, the total number of Maternal Deaths derived from unit registration data was 33 of which 20 was from rural area and 13 from urban area. The maternal death rate declined from 0.10 in the previous year to 0.06 in the year under report.

### STILL BIRTH RATE

The total number of still births registered during the year under report was 3244 as against 3249 in the previous year. Still birth rate during the year was 5.7 as against 5.6 in the previous year. Kozhikode District tops the list by registering 732 still births the rate being 12.71.

### CONCLUSION I

In spite of the provisions of Birth and Death Registration Account all the vital events in the State have not been got registered. More over all the vital rates were higher in the urban areas than that in the rural areas as in previous years. This may be due to the fact that the registration is defact. and also due to the influx of rural people to the urban areas to avail better medical facilities in the urban area.

TABLE I

**Total Number of Live Births, Deaths, Still Births, Infant Death and Maternal Deaths and the Rates 1989**

District	Rural/ Urban	Estimated/ Mid Year Population (000's)	Live Births		Deaths			
			Number	Rate	Number	Rate		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Thiruvananthapuram	Rural	2221	14154	6.37	6.31	8006	3.60	3.77
	Urban	666	41525	62.35	60.24	8320	12.49	11.33
	Total	2887	55679	19.29	18.98	16326	5.66	5.54
Kollam	Rural	2153	23757	11.03	11.59	7606	3.53	3.56
	Urban	222	16260	73.24	78.91	2286	10.30	11.54
	Total	2375	40017	16.85	16.87	9892	4.17	4.18
Pathanamthitta	Rural	1087	11839	10.89	11.52	5420	4.99	4.35
	Urban	90	9162	101.80	139.63	1068	11.87	16.24
	Total	1177	21001	17.84	18.42	6488	5.51	4.99
Alappuzha	Rural	1645	10721	6.52	6.43	7420	4.51	4.08
	Urban	337	18679	55.43	53.46	3376	10.02	10.04
	Total	1982	29400	14.83	13.97	10796	5.45	5.04

<b>Kottayam</b>	Rural	1650	22497	13.63	12.82	9068	5.50	5.08
	Urban	159	9860	62.01	64.70	1263	7.94	8.04
	Total	1809	32357	17.89	17.30	10331	5.71	5.34
<b>Idukky</b>	Rural	1020	13424	13.16	12.76	3751	3.68	3.25
	Urban	40	4202	105.05	81.23	359	8.98	7.43
	Total	1060	17626	16.63	16.04	4110	3.88	3.45
<b>Ernakulam</b>	Rural	1996	11109	5.57	5.47	7394	3.70	3.54
	Urban	775	39152	50.52	48.20	7108	9.17	8.52
	Total	2771	50261	18.14	17.32	11502	5.23	4.92
<b>Thrissur</b>	Rural	2434	30579	12.56	12.26	11470	4.71	4.48
	Urban	254	24353	95.88	88.80	3598	14.17	14.68
	Total	2688	54932	20.44	19.41	15068	5.61	5.44
<b>Palakkad</b>	Rural	2129	37731	17.72	18.11	11020	5.18	5.17
	Urban	192	10767	56.08	53.95	2049	10.67	10.52
	Total	2321	48498	20.90	21.10	13069	5.63	5.62
<b>Malappuram</b>	Rural	2744	62477	22.77	25.72	9414	3.43	3.75
	Urban	213	15826	74.30	74.10	1641	7.70	8.28
	Total	2957	78303	26.48	29.45	11055	3.74	4.10
<b>Kozhikode</b>	Rural	2066	23828	11.53	12.04	7223	3.50	3.77
	Urban	486	33014	67.93	59.37	85.77	17.65	16.01
	Total	2552	56842	22.27	21.64	15800	6.19	6.25

TABLE I (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Wayanad	Rural	650	13210	20.32	21.20	2692	4.14	3.96
	Urban	..	..	..	..	..	..	..
	Total	650	13210	20.32	21.20	2692	4.14	3.96
Kannur	Rural	2048	25928	12.66	14.13	8878	4.33	4.41
	Urban	147	17924	121.93	117.95	2329	19.84	15.36
	Total	2195	43852	19.98	21.31	11207	5.11	5.17
Kasargode	Rural	929	11288	12.15	13.33	3861	4.16	4.47
	Urban	104	10800	103.85	98.21	997	9.59	10.46
	Total	1033	22088	21.38	22.46	4858	4.70	5.12
State	Rural	24772	312542	12.62	12.96	103223	4.17	4.12
	Urban	3685	251524	68.26	65.68	42971	11.66	11.31
	Total	28457	564066	19.82	19.80	146194	5.14	5.05

TABLE 1 (Contd.)

District	Rural/ Urban	Still Births			Infant Death			Maternal Death		
		Number	Rate		Number	Rate		Number	Rate	
			1989	1988		1989	1988		1989	1988
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Thiruvananthapuram	Rural	11	0.78	0.42	79	5.58	5.73	..	..	..
	Urban	98	2.35	1.79	776	18.69	17.51	..	..	..
	Total	109	1.95	1.44	855	15.36	14.46	..	..	..
Kollam	Rural	109	4.57	3.73	155	6.52	6.52	..	..	0.04
	Urban	44	2.70	5.08	244	15.01	15.91	4	4	0.25
	Total	153	3.81	4.23	399	9.97	9.96	4	4	0.10
Pathanamthitta	Rural	14	1.18	1.74	91	7.69	6.98	..	..	..
	Urban	53	5.75	6.28	93	10.15	10.32	1	1	0.11
	Total	67	3.18	3.60	184	8.76	8.34	1	1	0.05
Alappuzha	Rural	21	1.95	1.74	54	5.04	4.62	..	..	..
	Urban	99	5.27	5.67	240	12.85	18.82	1	1	0.05
	Total	120	4.07	4.16	294	10.00	13.33	1	1	0.03
Kottayam	Rural	183	8.07	2.64	387	17.20	14.52	1	1	0.04
	Urban	63	6.35	5.61	39	3.96	6.66	1	1	0.10
	Total	246	7.55	3.60	26	13.17	11.98	2	2	0.06
Idukky	Rural	93	6.83	2.97	189	14.08	12.51	..	..	..
	Urban	36	8.49	8.06	28	6.66	7.47	..	..	0.23
	Total	129	7.27	4.21	217	12.31	11.28	..	..	0.06

TABLE 1 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Ernakulam	Rural	55	4.93	4.27	150	13.50	11.30	1	0.09	..
	Urban	300	7.60	8.02	516	13.18	12.66	..	..	..
	Total	355	7.04	7.16	666	13.25	12.35	1	0.02	..
Thrissur	Rural	93	3.03	2.07	302	9.88	5.66	1	0.03	..
	Urban	200	8.15	11.47	456	18.72	16.89	..	..	0.30
	Total	293	5.31	6.11	758	13.80	10.47	1	0.02	0.13
Palakkad	Rural	136	3.59	2.29	246	6.52	7.08	1	0.03	0.15
	Urban	81	7.47	12.27	211	19.60	21.21	..	..	..
	Total	217	4.45	4.43	457	9.42	10.09	1	0.02	0.12
Malappuram	Rural	94	1.50	2.07	401	6.42	5.60	4	0.06	0.11
	Urban	203	12.66	12.75	244	15.42	16.50	..	..	0.38
	Total	297	3.78	4.16	645	8.24	7.71	4	0.05	0.16
Kozhikode	Rural	17	0.71	1.14	51	2.14	3.34	..	..	0.04
	Urban	715	21.20	24.32	1390	42.10	51.11	6	0.18	..
	Total	732	12.71	14.17	1441	25.35	29.94	6	0.10	0.02
Wayanad	Rural	115	8.63	6.80	154	11.66	12.17	..	..	..
	Urban	..	..	..	..	..	..	..	..	..
	Total	115	8.63	6.30	154	11.66	12.17	..	..	..



Kannur	Rural	106	4.07	2.00	225	8.68	7.71	10	0.38	0.14
	Urban	96	5.33	10.54	174	9.71	12.16	..	..	..
	Total	202	4.59	5.28	399	9.10	9.41	10	0.23	0.09
Kasaragod	Rural	28	2.47	1.77	75	6.64	6.08	2	0.18	1.43
	Urban	181	16.48	17.30	152	14.07	12.75	..	..	..
	Total	209	9.37	9.13	227	10.28	9.22	2	0.09	0.76
State	Rural	1075	3.43	2.38	2559	8.19	7.28	20	0.06	0.12
	Urban	2169	8.55	9.89	4563	18.14	19.46	13	0.05	0.07
	Total	3244	5.72	5.63	7122	12.63	12.52	33	0.06	0.10

TABLE 2

## Census Population of District Rural, Urban and Sex-wise ('000)

Sl. No.	District	Population				Population not under Registration				Population of Towns with 30000 and above			
		Rural		Urban		Rural		Urban		Male		Female	
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1.	Thiruvananthapuram	2596	972	1005	307	312	..	..	..	..	307	312	
2.	Kollam	2193	978	999	107	109	..	..	..	..	107	109	
3.	Pathanamthitta	1108	509	537	30	32	..	..	..	..	30	32	
4.	Alappuzha	1866	754	789	159	164	..	..	..	..	134	137	
5.	Kottayam	1697	769	769	79	80	..	..	..	..	58	58	
6.	Idukki	969	475	458	18	18	..	..	..	..	18	18	
7.	Ernakulam	2535	909	908	360	358	..	..	..	..	311	307	
8.	Thrissur	2440	1045	1149	117	129	..	..	..	..	74	80	
9.	Palakkad	2044	907	960	87	90	..	..	..	..	87	90	
10.	Malappuram	2403	1083	1142	88	90	..	..	..	..	88	90	
11.	Kozhikode	2245	883	904	228	230	..	..	..	..	228	230	
12.	Wayanad	554	284	270	..	..	..	..	..	..	..	..	
13.	Kannur	1931	878	912	69	72	..	..	..	..	67	69	
14.	Kasaragod	873	388	396	44	45	..	..	..	..	44	45	
	State	25454	10834	11198	1693	1729	..	..	..	..	1536	1559	

TABLE 3

**Total number of Live Births, Deaths, Still Births, Infant Deaths and Maternal Deaths in Corporations and Municipalities having a population of 30000 and above**

Corporation/ Municipality	Births		Deaths		Still Births	Infant Death	Maternal Death		
	Total	Male	Female	Total				Male	Female
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Thiruvananthapuram	32343	11966	20377	7465	3134	4331	77	751	..
Nedumangad Municipality	2535	1243	1292	258	167	91	..	3	..
Attungal	569	265	304	121	69	52	3	2	..
Varkala	2399	1294	1105	203	107	96	4	..	..
Kollam	13240	7090	6150	1836	1120	716	22	222	3
Punalur	2775	1343	1432	317	204	113	22	22	1
Paravoor	245	118	127	133	75	58	..	..	..
Pathanamthitta	3358	1682	1676	308	204	104	25	21	..
Thiruvalla	5804	3306	2498	760	457	303	28	72	1
Kayamkulam	2513	1283	1230	349	215	134	14	16	..
Alappuzha	8653	4441	4212	1913	1200	713	29	175	1
Cherthala	2444	1250	1194	522	308	214	18	25	..
Kottayam	3543	1897	1646	462	281	181	23	5	..
Changanacherry	2570	1323	1247	293	152	141	16	6	1
Thodupuzha	4202	2140	2062	359	221	138	36	28	..
Kochi Corporation	17555	9096	8459	4699	3028	1671	176	326	..

TABLE 3 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Thrippunithura Municipality	2500	1247	1253	361	228	133	16	18	..
Kothamangalam "	3935	2000	1935	409	243	166	26	35	..
Angamali "	2223	1190	1033	401	263	138	7	24	..
Thrissur "	14025	6862	7163	2121	1149	972	120	338	..
Chalakkudi "	2202	1100	1102	309	204	105	5	19	..
Kodungallur "	3066	1608	1458	324	209	115	6	29	..
Chavakkad "	1010	5662	448	187	115	72	30	10	..
Palakkad "	8483	4417	4066	1557	973	584	49	187	..
Shoranur "	676	365	311	212	127	85	..	5	..
Chittoor-Thathamangalam "	1608	826	782	280	149	131	32	19	..
Malappuram "	2586	1287	1299	273	176	97	26	35	..
Manjeri "	4630	2419	2211	662	402	260	93	116	..
Ponnani "	3158	1635	1523	259	167	92	48	15	..
Thirur "	5452	2854	2598	447	281	166	36	78	..
Kozhikode Corporation	27647	13539	14108	8056	4847	3209	686	1345	6
Vadakara Municipality	5367	2754	2613	521	317	204	29	45	..
Kannur "	4437	2254	2183	519	313	206	23	57	..
Thalasseri "	10237	5121	5116	1241	646	595	52	85	..
Kasaragode "	5769	2920	2849	459	266	193	120	93	..
Kanhangad "	5031	2590	2441	538	338	200	61	59	..
Total	218790	107287	111503	39134	22355	16779	1958	4286	13

TABLE 4

**Total Number of Births, Deaths, Still Births, Infant Deaths and Maternal Deaths in Corporations and Municipalities having a population of 30000 and above—District-wise 1989**

Districts	Birth (2)	Death (3)	Still birth (4)	Infant Death (5)	Maternal Death (6)
Thiruvananthapuram	37846	8047	84	756	.. 4
Kollam	16260	2286	44	244	.. 1
Pathanamthitta	9162	1068	53	93	.. 1
Alappuzha	13610	2784	61	216	.. 1
Kottayam	6113	755	39	11	..
Idukki	4202	359	36	28	..
Ernakulam	26213	5870	225	403	..
Thrissur	20303	2941	161	396	..
Palakkad	10767	2049	81	211	..
Malappuram	15826	1641	203	244	.. 6
Kozhikode	33014	8577	715	1390	..
Wayanad	..	..	..	..	..
Kannur	14674	1760	75	142	..
Kasargode	10800	997	181	152	..
State	218790	39134	1958	4286	13

TABLE 5

## Total Number of Vital events and its rates in Corporations/Municipalities 1989

Corporation/ Municipality	Live Birth		Death		Still Birth		Infant Death		Maternal Death	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Thiruvananthapuram Corporation	32343	62.56	7465	14.44	77	2.38	751	23.22	..	..
Nedumangad Municipality	2535	51.90	258	5.28	..	..	3	1.18	..	..
Varkala	2399	62.95	203	5.33	4	1.66	..	..	..	..
Neyyattinkara	3679	22.67	273	9.10	14	3.79	20	5.44	..	..
Attungal	569	17.72	121	3.77	3	5.27	2	3.51	..	..
Kollam	13240	94.89	1836	13.16	22	1.66	222	16.77	3	0.23
Punalur	2775	60.69	317	6.93	22	7.87	22	7.93	1	0.36
Paravoor	245	6.64	133	3.60	..	..	..	..	..	..
Pathanamthitta	3358	94.91	308	8.71	25	7.39	21	6.25	..	..
Thiruvalla	5804	106.95	760	14.00	28	4.80	72	12.41	1	0.17
Alappuzha	8653	49.77	1913	11.00	29	3.34	175	20.22	1	0.12
Cherthala	2444	57.05	522	12.18	18	7.31	25	10.23	..	..
Mavelikkara	3709	133.42	346	12.35	15	4.03	14	3.77	..	..
Kayamkulam	2513	37.99	349	5.28	14	5.84	16	6.37	..	..
Chengannur	1360	52.92	246	9.57	23	16.63	10	7.35	..	..
Kottayam	3543	55.91	462	7.29	23	6.45	5	1.41	..	..
Changanacherry	2570	49.08	293	5.60	16	2.73	6	2.33	1	0.39
Vaikom	731	33.67	207	9.56	2	2.73	12	16.42	..	..
Palai	3016	138.06	301	13.78	22	7.24	16	5.31	..	..
Thodupuzha	4202	105.60	359	9.02	36	8.49	28	6.66	..	..
Kochi Corporation	17555	31.59	4699	8.46	176	9.93	326	18.57	..	..



TABLE 6  
Live Birth by type of attention at delivery 1989—Rural and Urban

District	Rural						Urban						
	Domiciliary			Town with population below 30000			Town with population above 30000			Domiciliary			
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Thiruvananthapuram	55679	11929	92	483	1650	3668	..	11	..	35813	..	124	1909
Kollam	40017	22620	138	617	382	..	..	..	..	16042	81	102	35
Pathanamthitta	21001	11116	42	352	329	..	..	..	..	9099	48	10	5
Alappuzha	29400	9556	462	597	106	4688	7	102	272	13421	53	78	58
Kottayam	32357	22121	38	269	69	3667	24	20	36	6007	..	106	..
Idukki	17626	12404	147	709	164	..	..	..	..	2870	280	..	1052
Ernakulam	50261	10936	28	122	23	12464	440	5	30	26130	..	75	8
Thrissur	54932	30198	70	259	52	3987	..	38	25	20133	60	6	104
Palakkad	48498	31452	29	97	6153	..	..	..	..	9711	622	138	296
Malappuram	78303	32825	585	5814	23253	..	..	..	..	14815	85	44	882
Kozhikode	56842	19097	839	2316	1576	..	..	..	..	32466	370	19	159
Wayanad	13210	11547	67	477	1119	..	..	..	..	..	..	..	..
Kannur	43852	17374	1456	2774	4324	3094	128	..	28	14390	65	25	219
Kasaragod	22088	9264	704	146	1174	..	..	..	..	9797	68	18	917
State	564066	252239	4697	15032	40374	31568	599	176	391	210694	1732	720	5644



TABLE 7

**Live Births according to order of Birth and Literacy of Mother for the State  
(Rural 1939)**

Order of Birth	Literacy						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Illiterate	Below matriculation	Matriculation/ Higher Secondary and equivalent	Graduation and above	Not reported	Total	
01	4749	68657	44218	6822	644	125090	
02	5336	60541	33558	3966	614	104015	
03	4016	32364	8078	710	376	45544	
04	2484	13964	1348	85	184	18065	
05	1511	6685	331	14	107	8648	
06	1031	3769	91	2	55	4948	
07	664	1922	35	1	33	2655	
08	514	1217	23	..	31	1785	
09	285	642	8	..	14	949	
10	175	344	5	..	14	538	
11 and above	48	125	1	1	3	178	
Not reported	34	91	..	..	2	127	
Total	20847	190321	87696	11601	2077	312542	

TABLE 8

Live Births according to order of Births and Literacy of Mother for the State  
Urban-1989

Order of birth	Literacy						Total
	Illiterate	Below matriculation	Matriculation Higher Second- ary and equivalent	Graduation and above	Not reported	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
01	2037	54375	46275	11319	3034	117040	
02	1904	42603	32164	6388	1624	85175	
03	1329	20089	9848	1324	636	33226	
04	839	6225	1741	193	207	9195	
05	512	2669	377	50	92	3700	
06	280	1189	97	7	38	1611	
07	174	506	37	1	19	737	
08	141	278	20	1	20	460	
09	53	126	6	..	4	189	
10	39	89	1	..	3	132	
11 and above	10	18	..	..	1	29	
Not reported	11	17	..	..	2	30	
Total	7329	128174	90566	19775	5680	251524	

TABLE 9

## Live Births according to order of Births and Literacy of father for the State Rural 1939

Order of Birth	Literacy						Total
	Illiterate	Below Matriculation	Matriculation Higher Secondary and above	Graduation above	Not reported	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
01	3903	7377	40398	6562	450	125090	
02	4420	64334	30525	4339	397	104015	
03	3125	33305	7862	1015	237	45544	
04	1936	14259	1580	181	109	18065	
05	1162	6837	184	62	44	8648	
06	823	3899	95	12	30	4948	
07	540	1993	95	6	21	2655	
08	427	1305	41	3	9	1785	
09	212	708	20	1	8	949	
10	140	381	9	..	8	538	
11 and above	33	143	1	1	..	178	
Not Reported	22	104	..	..	..	127	
Total	16743	201045	81258	12182	1314	312542	

TABLE 10

## Live birth according to order of Birth and Literacy of Father for the State—Urban 1939

Order of Birth	Literacy.						Total
	Illiterate	Below Matriculation	Matriculation Higher Secondary and above	Graduation and above	Not reported	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
01	2072	57190	44570	11541	1667	117040	
02	1838	44355	30376	7786	320	85175	
03	1198	20104	9718	1760	446	33226	
04	720	6102	1972	278	123	9195	
05	403	2670	498	70	59	3700	
06	231	1162	164	21	33	1611	
07	125	526	65	11	10	737	
08	76	332	33	4	15	460	
09	39	131	14	1	4	189	
10	22	101	7	..	2	132	
11 and above	4	23	1	..	1	29	
Not reported	6	22	1	1	..	30	
Total	6734	132718	87419	21473	3180	251524	

TABLE II

## Live Births according to order of Birth and occupation of Father—Kerala Rural 1989

Order of Birth	Professional & Technical related workers	Administrative Executive Management workers	Sale workers	Service workers man	Farmers Fisherman, hunters, loggers and related workers	Productive, live and related equipment classified and Labours	Others and related occupation where Transport is not else	Non workers	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01	7158	1172	4545	13319	3152	10022	69526	6216	9980	125090
02	5027	780	3246	10570	2369	8122	60761	5369	7771	104015
03	1751	325	827	4134	936	3271	26574	2354	2772	45544
04	549	131	211	1480	312	1046	11838	970	1025	18765
05	269	63	71	1064	151	511	5498	529	492	8648
06	129	40	27	558	77	314	3173	331	299	4948
07	101	4	6	281	38	148	1685	199	193	2655
08	44	3	5	190	18	117	1118	168	122	1785
09	28	2	2	118	14	63	560	94	68	949
10	14	..	..	72	6	39	318	45	44	538
11 and above	7	..	..	14	1	7	112	22	15	178
Not Reported	5	..	..	7	1	13	75	14	2	127
Total	15082	2523	8940	32907	7075	23673	183238	16311	22793	312542

TABLE 12

## Live Births According to Order of Birth and Occupation of Father—Kerala Urban—1989

Order of Birth	Professional Technical and related workers	Admini- strative Executive and Managerial workers.	Clerical workers	Sale workers	Service workers	Farmers, Fisherman and hunters related lagers etc. and related workers	Productive and related equipment operators and labourers	Others whose occupation is not elsewere classified	Non workers	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01	9741	3456	6261	16862	4613	5712	62707	4433	3255	117040
02	6203	2496	4308	10814	2893	4534	47068	4204	2655	85175
03	1731	901	1033	4298	995	2017	20363	999	889	33226
04	423	203	219	1073	185	771	5640	407	274	9195
05	174	118	65	606	74	324	1988	185	166	3700
06	68	55	33	301	40	147	816	64	87	1611
07	23	21	20	136	10	58	405	30	34	737
08	11	25	9	93	7	37	236	22	26	460
09	7	3	2	39	2	11	104	11	10	189
10	5	..	3	22	3	13	61	13	12	132
11 and above	..	..	..	10	..	3	13	1	2	29
Not Reported	2	..	..	10	..	6	10	1	1	30
Total	18308	7278	11953	34264	8822	13633	139411	10370	7405	251324

TABLE 13

## Live Birth by order of birth and age of Mothers—Kerala—1989 (Rural)

Order of Birth	Age of Mother										
	Below 15 years	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		15-19	20-24	25-29	30-34	35-39	40-44	45 and above	NR	All ages	
01	8	29687	66164	25663	2832	610	53	16	57	125090	
02	..	4476	55175	35797	7167	1264	100	17	19	104015	
03	..	439	17178	19977	6206	1590	121	22	11	45544	
04	..	58	3378	9127	3851	1487	138	19	7	18065	
05	..	..	545	3545	2799	1545	182	27	5	8648	
06	..	..	..	1256	1894	1536	225	32	5	4948	
07	..	..	..	301	841	1255	212	46	..	2635	
08	..	..	..	114	454	906	256	54	1	1785	
09	..	..	..	21	127	554	192	55	..	949	
10	..	..	..	..	..	336	134	56	12	538	
11 and above	..	..	..	..	..	93	55	29	1	178	
NR	..	..	..	2	8	43	49	19	6	127	
Total	8	34660	142440	95803	26179	11219	1717	392	124	312542	

TABLE 14

## Live Births by order of births and age of Mother—Kerala—1989—Urban

Order of Birth	Age of Mother									
	Below 15 years	15-19	20-24	25-29	30-34	35-39	40-44	45 and above	NR	All ages
(1)	(2)	(3)	(1)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01	3	22197	61242	28297	4128	905	148	5	115	117040
02	..	2785	39019	32519	8963	1645	148	3	63	85175
03	..	140	11595	14677	5289	1363	131	14	17	33226
04	..	..	2041	4297	1961	769	117	8	11	9195
05	..	..	286	1445	1169	660	109	22	9	3790
06	..	..	19	461	572	450	85	18	6	1611
07	..	..	..	52	322	289	56	10	8	737
08	..	..	..	3	149	217	78	11	2	460
09	..	..	..	..	30	114	35	10	..	189
10	..	..	..	..	3	67	39	23	..	132
11 and above	..	..	..	..	..	2	18	9	..	29
NR	..	..	..	..	..	2	14	12	2	30
Total	3	25122	114232	81751	22386	6474	978	145	233	251524



TABLE 15  
Live birth by age of mother in Municipalities and Corporations, Kerala—1989

Name of Municipality/ Corporation	Age of Mothers										
	Below 15 years	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Total
Thiruvananthapuram Corporation	..	3236	13436	11947	2956	707	58	4	..	..	32343
Neyyattinkara Municipality	..	206	1544	1464	337	98	28	2	..	..	3679
Nedumangad "	..	232	1506	664	114	16	3	..	..	..	2535
Attungal "	..	51	265	188	58	7	..	..	..	..	569
Varkala "	..	211	1154	894	124	12	4	..	..	..	2399
Kollam "	..	807	6594	4467	1139	203	24	..	6	6	13240
Punalur "	..	134	1567	803	172	47	1	..	1	1	2775
Paravur "	..	20	124	77	15	6	3	..	..	..	245
Pathanamthitta "	..	262	1494	1240	302	55	5	..	..	..	3358
Thiruvalla "	..	135	2110	2567	762	162	54	14	..	..	5804
Alappuzha "	..	529	4116	2986	777	217	13	..	15	15	8553
Cheengannur "	..	124	900	333	1	1	1	..	..	..	1360
Mavelikkara "	..	237	1864	1191	344	69	2	..	2	2	3709
Kayamkulam "	..	266	1360	709	140	33	1	..	4	4	2513

TABLE 15 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Cherthala Municipality	..	45	1183	821	304	61	21	9	..	2444
Kottayam "	..	71	1131	1863	401	62	5	..	10	3543
Palai "	..	88	1032	1381	419	85	7	..	4	3016
Changanacherry "	..	148	1275	893	212	39	2	1	..	2570
Vaikom "	..	68	370	276	14	3	..	..	..	731
Thodupuzha "	..	1086	1545	1078	291	162	38	2	..	4202
Kochin Corporation	..	780	7145	6808	2294	442	56	8	22	17555
Kothamangalam "	..	174	1735	1508	404	97	11	..	6	3933
Muvattupuzha "	..	152	1309	902	214	51	6	2	..	2636
Thrippunithura "	..	65	1157	1192	38	47	1	..	..	2500
Aluva "	..	358	2564	1582	356	90	1	..	1	4955
North Paravoor "	..	116	1132	1021	260	78	5	..	..	2612
Perumbavoor "	..	117	1214	1093	263	43	2	..	2	2736
Angamali "	..	37	869	1106	172	33	1	2	3	2223
Thrissur "	..	437	7716	4436	1127	263	30	..	11	14025
Kodungallur "	..	124	1414	1098	375	41	6	..	8	3065
Iringalakuda "	..	37	563	301	55	18	1	1	..	976
Chaladudy "	..	64	1104	748	226	50	7	..	3	2202
Kunnamkulam "	..	198	833	695	220	42	2	..	3	1993
Chavakkad "	..	114	456	298	82	42	8	..	10	1010
Guruvayoor Township	..	122	439	396	103	19	1	..	1	1081



TABLE 16

## Live Birth by religion in the Municipalities and Corporation of Kerala—1989

Municipality/Corporation	Hindu	Muslims	Christians	Others	Total
(1)	(2)	(3)	(4)	(5)	(6)
Thiruvananthapuram Corporation	23893	5315	3132	3	32343
Neyyattinkara Municipality	2117	237	1325	..	3679
Nedumangad	1776	492	267	..	2535
Attingal	361	203	5	..	569
Varkala	1767	579	53	..	2399
Kollam	8672	2619	1949	..	13240
Parur	184	54	7	..	245
Punalur	1546	513	716	..	2775
Pathanamthitta	1916	402	1040	..	3358
Tfhiruvalla	2752	177	2875	..	5804
Alappuzha	5132	1641	1880	..	8653
Chengannoor	968	19	373	..	1360
Mavelikara	2875	144	690	..	3709
Kayamkulam	1761	574	178	..	2513
Cherthala	1868	227	349	..	2444
Kottayam	1907	172	1464	..	3543
Palai	1350	33	1633	..	3016
Changanacherry	1647	254	669	..	2570
Quilon	563	10	158	..	731
Thodupuzha	1855	762	1585	..	4202
Cochin Corporation	7226	3154	7175	..	17555

Moovattupuzha Municipality	1218	695	723	..	2636
Kothamangalam	1303	772	1860	..	3935
Thrippunithara	1803	73	624	..	2500
Aluva	2402	1743	810	..	4955
Parur	1838	273	501	..	2612
Perumbavoor	1280	640	816	..	2736
Angamali	691	13	1519	..	2223
Thrissur	9247	1209	3569	..	14025
Kodungallur	2209	793	63	1	3066
Iringalakuda	799	60	117	..	976
Chalakudy	1042	87	1073	..	2202
Kunnamkulam	1188	499	306	..	1993
Chavakkad	370	622	18	..	1010
Guruvayoor Township	444	592	45	..	1081
Palakkad Municipality	6530	1747	206	..	8483
Shoranur	607	61	8	..	676
Chittoor-Thathamangalam Municipality	1429	134	45	..	1608
Malappuram Municipality	448	2126	12	..	2586
Manjeri	1481	3051	96	2	4630
Ponnani	1070	1984	104	..	3158
Thirur	1820	3614	18	..	5452
Kozhikode Corporation	12806	14047	794	..	27647
Vadakara Municipality	2242	3098	27	..	5367
Kannur	1932	2400	105	..	4437
Kannur Cantonment	1935	1177	138	..	3250
Thalasseri Municipality	7037	2993	207	..	10237
Kasaragode	2292	3398	79	..	5769
Kanhangad	3267	1397	367	..	5031
Total	142866	66879	41773	6	251524

TABLE 17  
Live Birth by Religion in Kerala (District-Wise)—1989

District	Rural/Urban	Total births	Hindu	Muslims	Christians	Others
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Thiruvananthapuram	Rural	14154	9024	2004	3126	..
	Urban	41525	29914	6826	4782	3
	Total	55679	38938	8830	7908	3
Kollam	Rural	23757	14489	5044	4223	1
	Urban	16260	10402	3186	2672	..
	Total	40017	24891	8230	6895	1
Pathanamthitta	Rural	11839	6710	580	4549	..
	Urban	9162	4668	579	3915	..
	Total	21001	11378	1159	8464	..
Alappuzha	Rural	10721	7517	751	2452	1
	Urban	18679	12604	2605	3470	..
	Total	29400	20121	3356	5922	1
Kottayam	Rural	22497	8859	1485	12153	..
	Urban	9860	5467	469	3924	..
	Total	32357	14326	1954	16077	..
Idukky	Rural	13424	6824	650	5950	..
	Urban	4202	1855	762	1585	..
	Total	17626	8679	1412	7535	..
Ernakulam	Rural	11109	5370	607	5132	..
	Urban	39152	17761	7363	14028	..
	Total	50261	23131	7970	19160	..

Thrissur.	Rural	30579	17214	7404	5960	1
	Urban	24353	15299	3862	5191	1
	Total	54932	32513	11266	11151	2
Palakkad	Rural	37731	23284	13370	1077	..
	Urban	10767	8566	1942	259	..
	Total	48498	31850	15312	1336	..
Malappuram	Rural	62477	12450	48941	1036	..
	Urban	15826	4819	10775	230	2
	Total	78303	17269	59716	1316	2
Kozhikode	Rural	23828	8757	13884	1186	..
	Urban	33014	15048	17145	821	1
	Total	56842	23805	31029	2007	..
Wayanad	Rural	13210	5532	4499	3175	..
	Urban	..	..	..	..	4
	Total	13210	5532	4499	3175	..
Kannur	Rural	25928	12228	9474	4226	..
	Urban	17924	10904	6570	450	..
	Total	43852	23132	16044	4676	..
Kasarode	Rural	11288	5480	5235	570	..
	Urban	10800	5559	4795	446	3
	Total	22088	11039	10030	1016	..
State	Rural	312542	143738	113928	54865	..
	Urban	251524	142866	66879	41773	11
	Total	564066	286604	180807	96638	6
						17

TABLE 18  
**Month-wise Distribution of Live Births in Kerala—1989**

<i>Month</i>	<i>Rural</i>	<i>Urban</i>	<i>Total</i>
January	26419	19341	45760
February	25035	18512	43547
March	26926	21256	48182
April	25672	22236	47908
May	28249	22910	51159
June	25929	21935	47864
July	25798	21088	46886
August	24479	19996	44475
September	26913	20814	47727
October	25874	21290	47164
November	25989	21301	47290
December	25259	20845	46104
State	312542	251524	564066



TABLE 19

## Sex-Ratio of Live Births in Kerala (District-wise)—1989

District	Rural/Urban	Male	Female	Sex-Ratio
(1)	(2)	(3)	(4)	(5)
Thiruvananthapuram	Rural	7197	6957	967
	Urban	16784	24741	1474
	Total	23981	31698	1322
Kollam	Rural	11373	12384	1089
	Urban	8551	7709	902
	Total	19924	20093	1008
Pathanamthitta	Rural	6780	5059	746
	Urban	4988	4174	837
	Total	11768	9233	785
Alappuzha	Rural	5231	5490	1050
	Urban	9603	9076	945
	Total	14834	14566	982
Kottayam	Rural	10181	12316	1210
	Urban	5131	4729	922
	Total	15312	17045	1113
Idukky	Rural	7375	6049	820
	Urban	2140	2062	964
	Total	9515	8111	852
Ernakulam	Rural	6238	4871	781
	Urban	20000	19152	958
	Total	26238	24023	916

TABLE 19 (Contd.)

(1)	(2)	(3)	(4)	(5)
Thrissur	Rural	16240	14339	883
	Urban	12193	12160	997
	Total	28433	26499	932
Palakkad	Rural	20497	17234	841
	Urban	5608	5159	920
	Total	26105	22393	858
Malappuram	Rural	33245	29232	879
	Urban	8195	7631	931
	Total	41440	36863	890
Kozhikode	Rural	12263	11565	943
	Urban	16293	16721	1026
	Total	28556	28286	991
Wayanad	Rural	6866	6344	924
	Urban	..	..	..
	Total	6866	6344	924
Kannur	Rural	13351	12577	942
	Urban	9007	8917	990
	Total	22358	21494	961
Kasargod	Rural	5845	5443	931
	Urban	5510	5290	960
	Total	11355	10733	945
State	Rural	162682	149860	921
	Urban	124003	127521	1028
	Total	286685	277381	968

TABLE 20

## Month-wise Distribution of Deaths in Kerala—1989

Month	Rural/Urban		
	Rural	Urban	Total
January	8966	3816	12782
February	8385	3609	11994
March	8479	3359	12038
April	7484	3461	10945
May	8201	3761	11962
June	8459	3515	11974
July	10162	3921	14083
August	10443	3981	14424
September	9272	3725	12997
October	7640	3551	11191
November	7693	3015	10708
December	8039	3057	11096
State	103223	42971	146194

TABLE 21

## Death by Age and Sex—Kerala—1989

Age/Sex	Rural			Urban			All Sexes		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Below 1 Year	1425	1134	2559	2488	2075	4563	3913	3209	7122
1 to 4 Year	626	655	1281	557	528	1085	1183	1183	2366
5 to 14 Year	790	619	1409	596	456	1052	1386	1075	2461
15 to 24 Year	1513	1236	2749	956	851	1807	2469	2087	4556
25 to 34 Year	2222	1163	3385	1255	779	2034	3477	1942	5419
35 to 44 Year	3374	1325	4699	1833	883	2716	5207	2208	7415
45 to 54 Year	5856	2254	8110	2853	1278	4131	8709	3532	12241
55 to 64 Year	9655	4749	14404	4454	2059	6513	14109	6808	20917
65 and above	32920	31564	64484	9793	9226	19019	42713	40790	83503
Not Reported	103	40	143	36	15	51	139	55	194
Total	58484	44739	103223	24821	18150	42971	83305	62889	146194

TABLE 22

## Death by religion in Kerala --District-wise --1989

District	Rural/Urban	Hindu	Muslim	Christian	Others	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Thiruvananthapuram	Rural	5925	482	1597	2	8006
	Urban	6792	604	923	1	8320
	Total	12717	1086	2520	3	16326
Kollam	Rural	5531	792	1283	..	7606
	Urban	1757	277	252	..	2286
	Total	7288	1069	1535	..	9892
Pathanamthitta	Rural	3196	100	2122	2	5420
	Urban	723	31	314	..	1068
	Total	3919	131	2436	2	6488
Alappuzha	Rural	5547	346	1525	2	7420
	Urban	2288	413	675	..	3376
	Total	7835	759	2200	2	10796
Kottayam	Rural	3284	244	5536	4	9068
	Urban	746	23	494	..	1263
	Total	4030	267	6030	4	10331

TABLE 22 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Idukki	Rural	2022	136	1592	1	3751
	Urban	165	41	153	..	359
	Total	2187	177	1745	1	4110
Ernakulam	Rural	4173	561	2659	1	7394
	Urban	3815	887	2385	21	7108
	Total	7988	1448	5044	22	14502
Thrissur	Rural	7632	1486	2349	3	11470
	Urban	2558	410	630	..	3598
	Total	10190	1896	2979	3	15068
Palakkad	Rural	8934	1795	291	..	11020
	Urban	1863	148	38	..	2049
	Total	10797	1943	329	..	13069
Malappuram	Rural	3689	5520	203	2	9414
	Urban	588	1033	20	..	1641
	Total	4277	6553	223	2	11055
Kozhikode	Rural	4787	2142	276	18	7223
	Urban	5176	3063	337	1	8577
	Total	9963	5205	613	19	15800

Wayanad	Rural	1575	601	514	2	2692
	Urban	..	..	..	..	..
	Total	1575	601	514	2	2692
Kannur	Rural	6255	1788	834	1	8878
	Urban	1665	567	97	..	2329
	Total	7920	2355	931	1	11207
Kasaragode	Rural	2509	1156	195	1	3861
	Urban	520	447	30	..	997
	Total	3029	1603	225	1	4858
State	Rural	65059	17149	20976	39	103223
	Urban	28656	7944	6348	23	42971
	Total	93715	25093	27324	62	146194

Percentage Distribution of Deaths due to some specified diseases—1989

District	Total death	Fever	Dysentery & Diarrhoea	Complication of pregnancy & abortion	Respiratory Diseases	Tetanus	Diphtheria	Polio	Chicken pox					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Thiruvananthapuram	16326	3.51	0.75	..	9.11	2.55	0.11	0.24	0.01	0.02	0.02	0.02	0.02	0.06
Kollam	9892	5.07	0.55	0.04	9.62	3.18	0.06	..	0.02	0.05	0.11	0.02	0.05	0.11
Pathanamthitta	6488	3.41	0.66	0.02	5.32	1.70	0.03	0.02	..	0.06	0.02	0.02	0.05	0.11
Alappuzha	10796	8.87	0.95	0.01	8.85	2.72	0.05	..	0.06	0.02	0.02	0.02	0.05	0.11
Kottayam	10331	2.44	0.63	0.02	6.18	1.53	0.13	0.01	0.03	0.08	0.02	0.02	0.05	0.11
Idukki	41100	5.77	0.73	..	9.27	1.17	0.24	0.02	0.15	0.07	0.02	0.02	0.05	0.11
Ernakulam	14502	3.26	0.34	0.01	12.16	2.61	0.02	..	0.03	0.03	0.02	0.02	0.05	0.11
Thrissur	15068	6.42	0.49	0.01	11.43	1.96	0.06	0.03	0.02	0.02	0.02	0.02	0.05	0.11
Palakkad	13069	14.71	1.38	0.01	5.69	3.01	0.06	0.01	0.02	0.06	0.02	0.02	0.05	0.11
Malappuram	11055	9.15	1.10	0.04	7.91	2.37	..	0.06	0.05	0.06	0.02	0.02	0.05	0.11
Kozhikode	15800	3.92	0.68	0.04	6.00	2.44	0.23	0.09	0.06	0.02	0.02	0.02	0.05	0.11
Wayanad	2692	5.39	1.60	..	10.55	2.15	0.11	..	0.11	..	..	..	..	..
Kannur	11207	4.41	0.19	0.09	7.70	2.08	0.04	..	0.01	0.02	0.02	0.02	0.05	0.11
Kasaragode	4858	9.90	1.03	0.04	8.09	4.08	0.08	..	..	0.25	0.02	0.02	0.05	0.11



<i>District</i>	<i>Cancer</i>	<i>Leprosy</i>	<i>Rabies</i>	<i>Typhoid</i>	<i>Pneu- monia</i>	<i>Jaundice</i>	<i>Heart diseases</i>	<i>Rheumatic Complaints</i>	<i>Others</i>
	(17)	(18)	(19)	(20)	(21)	(22)	(28)	(32)	(37)
Thiruvananthapuram	4.17	0.01	0.04	0.12	1.08	0.94	19.30	15.01	17.73
Kollam	6.35	..	0.02	0.07	0.71	0.21	23.14	13.91	24.66
Pathanamthitta	4.92	0.02	0.02	0.06	0.28	0.80	21.04	25.59	24.78
Alappuzha	6.64	0.01	0.02	0.04	0.32	0.24	21.79	17.70	22.72
Kottayam	4.39	..	0.02	0.25	0.22	0.17	19.44	22.82	27.57
Idukki	5.79	..	..	0.32	0.29	0.34	16.47	10.49	29.66
Ernakulam	5.26	0.01	0.02	0.06	0.67	0.23	15.27	8.93	39.12
Thrissur	6.95	0.01	0.01	0.03	0.44	0.42	19.28	11.30	28.76
Palakkad	6.19	0.05	0.02	0.01	0.15	0.47	11.62	15.02	24.85
Malappuram	8.14	0.04	..	0.03	0.29	0.25	13.41	21.08	27.46
Kozhikode	5.98	0.01	0.13	0.42	0.30	0.09	14.43	13.17	36.46
Wayanad	4.64	..	..	0.07	0.22	0.15	12.52	7.24	38.86
Kannur	6.53	..	..	..	0.33	0.16	16.23	12.05	39.45
Kasaragod	5.80	..	0.39	..	0.04	0.08	16.78	8.46	32.98

TABLE 24

**Infant Deaths by Sex in Kerala—District-wise—1989**

District	Rural/Urban	Male	Female	Total
(1)	(2)	(3)	(4)	(5)
Thiruvananthapuram	Rural	39	40	79
	Urban	329	447	776
	Total	368	487	855
Kollam	Rural	96	59	155
	Urban	118	126	244
	Total	214	185	399
Pathanamthitta	Rural	51	40	91
	Urban	57	36	93
	Total	108	76	184
Alapuzha	Rural	31	23	54
	Urban	151	89	240
	Total	182	112	294
Kottayam	Rural	218	169	387
	Urban	22	17	39
	Total	240	186	426
Idukki	Rural	96	93	189
	Urban	13	15	28
	Total	109	108	217
Ernakulam	Rural	89	61	150
	Urban	298	218	516
	Total	387	279	666

Trissur	Rural	181	121	302
	Urban	237	219	456
	Total	418	340	758
Palakkad	Rural	142	104	246
	Urban	118	93	211
	Total	260	197	457
Malappuram	Rural	217	184	401
	Urban	149	95	244
	Total	366	279	645
Kozhikode	Rural	28	23	51
	Urban	823	567	1390
	Total	851	590	1441
Wayanad	Rural	73	81	154
	Urban	..	..	..
	Total	73	81	154
Kannur	Rural	124	101	225
	Urban	83	91	174
	Total	207	192	399
Kasaragode	Rural	40	35	75
	Urban	90	62	152
	Total	130	97	227
State	Rural	1425	1134	2559
	Urban	2488	2075	4563
	Total	3913	3209	7122

TABLE 25

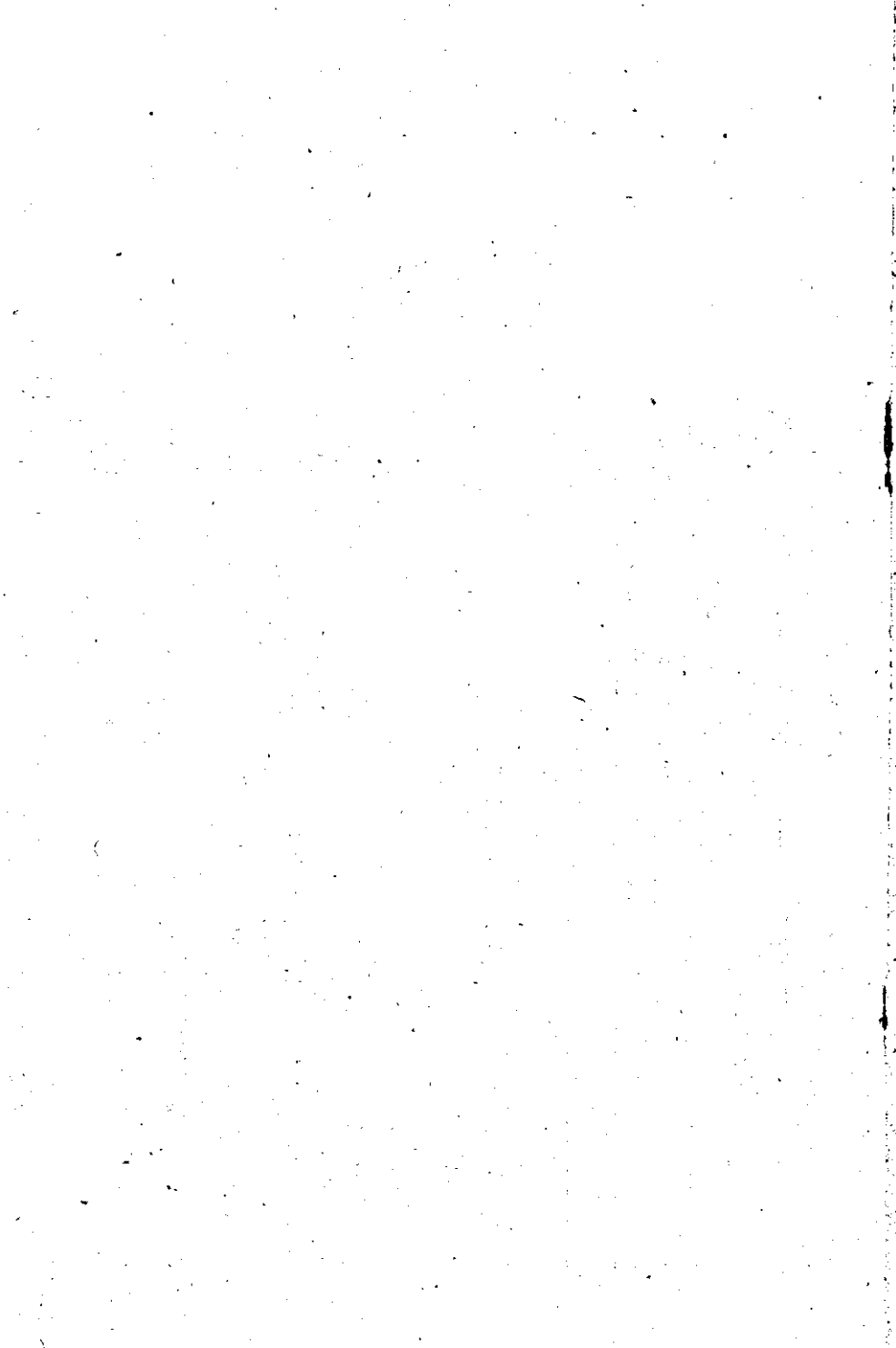
## Infant deaths by Age and Sex in Kerala 1989

Age	Rural			Urban			Total		
	Male (2)	Female (3)	Total (4)	Male (5)	Female (6)	Total (7)	Male (8)	Female (9)	Total (10)
Under one week	859	624	1483	1654	1385	3039	2513	2009	4522
One week to one month	190	158	348	387	286	673	577	444	1021
One month but below three months	133	127	260	191	153	344	324	280	604
Three months but below six months	80	79	159	107	115	222	187	194	381
Six months but below twelve months	163	146	309	149	136	285	312	282	594
Total	1425	1134	2559	2488	2075	4563	3913	3209	7122

TABLE 26

## Maternal deaths by Age of Death in Kerala 1989

Age of Death	Rural		Urban		Total for all Areas
	(1)	(2)	(3)	(4)	
			Town with population 30000 and above	All other urban area	
Below 15 years	..	..	..	..	..
15-19 "	2	2	1	..	3
20-24 "	2	2	2	..	3
25-29 "	1	1	2	..	4
30-34 "	2	2	..	..	2
35-39 "	4	4	3	..	7
40-44 "	..	..	..	..	..
45 and above	..	..	..	..	..
Not reported	9	9	5	..	14
All ages	20	20	13	..	33



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