



GOVERNMENT OF KERALA

***VITAL STATISTICS BULLETIN***  
***2002***

DIRECTORATE OF ECONOMICS AND STATISTICS

THIRUVANANTHAPURAM, KERALA

JANUARY 2005



## **PREFACE**

The Bulletin presents the vital statistics of Kerala for the calendar year 2002. The data relating to vital events received from the registering authorities are presented and vital rates estimated.

This report is prepared on the basis of data collected under the revamped system implemented in the state as a part of all India pattern. This is the 3 rd report based on this system

I hope that this report is of great help to Planners and Administrators and those engaged in the field of Health and demography.

The Bulletin is prepared by Smt.C.M.K. Valsala, Deputy Director with the help of Sri. Roy Thomas, Assistant Director and Smt.V.K.Santhamma, Research Assistant in the Vital Statistics Division of this Directorate under the guidance of Sri. Gangadhara Murugan, Additional Director.

Sri S.Anirudhan, Research Assistant has done a commendable work on the development of data entry module for CRS and also in the processing of data. The DTP was done by Sri M.M.Vijayakumaran Nadar, Research Assistant of the Publication division.

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11-01-2005



## **Vital Statistics Bulletin –2002**

### **Introduction**

The civil Registration system deals with the vital statistics of the human beings is having almost a direct impact on the Developmental planning of the country. The Registration of Births and Deaths Act 1969 came into force in Kerala on 1<sup>st</sup> April 1970 vide Government of India gazette Notification dated 21<sup>st</sup> March 1970 along with many other states. The Kerala Registration of Births and Death Rules 1970 was published in GO (P) 7/70/ LAD dated, 29<sup>th</sup> June 1970 by SRO No. 262/70 Gazette dated 1<sup>st</sup> July 1970 and it has been approved by Government of India as laid down in section 30(1) of the said act. This is a statutory activity performed under the provisions of the Registration of Birth and Death Act 1969. Civil Registration system is one of the primary source of population data. The main objective of civil registration system is to record the annual change of population both at National, State and Sub-unit level in the country. The data on vital events comprises of data from the Registrars of Births and Deaths maintained by the civil Governments. The data from the Civil Registration System is referred as vital statistics, which is one of the major tools used, by demographers and planners for analyzing the composition of population

Civil Registration system is a continuous, permanent and compulsory recording of the occurrence and characteristics of vital events. This provides safety 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, etc. Similarly the Death Registration provides benefits such as settlement of inheritance, insurance claims, claiming family allowance and other social security benefits.

The Director of Panchayats acts as Chief Registrar of Births and Deaths and the entire responsibility to coordinate and activate is vested with the Chief Registrar. A Deputy Chief registrar appointed by the chief registrar will assist him. The Additional Director of Economics and Statistics is the Additional Chief Registrar of Births and Deaths who is in charge of preparing statistical reports of Births and Deaths registration work. A deputy chief registrar (Deputy Director of Department of Economics and Statistics) assists him. At the district level, the district Panchayat Officers, Secretaries of municipalities & corporations are empowered as the District Registrar of birth and Deaths

The secretaries of Grama Panchayats and health Inspectors and health officers of municipalities and corporations are the local registrars of the concerned registration units. The Executive officer of Kannur Cantonment is empowered as the Registrar of that registration unit.

The birth and death cards received from the registering authorities are processed and analysed in the Vital Statistics unit of Directorate of Economics and Statistics.

This bulletin presents the results of the analysis of Vital Statistics for the year 2002.

### **Conceptual and Empirical frame work**

As per the Birth and Death 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 and mother, age of father and mother, order of birth etc. are recorded at the time of registration. These details are then recorded in the prescribed birth; death and stillbirth cards and the cards are forwarded to Directorate of Economics and Statistics periodically. The data will then be computerised and processed for further analysis.

### **Limitations of the data**

The process of registration of vital events is not complete. This may be due to under registration. This type of inadequacy and incompleteness has affected the quality of vital statistics. The birth and death rates in the urban areas are higher than that in the rural areas. This may happen because the people in the rural areas usually avail the modern hospital facilities, which are in urban areas. Also the ignorance of informants reporting vital events may adversely affect the quality of the data. 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 data reported.

### **Processing of the data**

During the year under report, lakhs of birth cards and death cards were received in the Directorate of Economics & Statistics from the registration units. Processing of data was carried out in the directorate for further analysis.

### **Vital rates**

- 1) **Birth rate:-** Birth rate is defined as the number of births per thousand population for a single year.
- 2) **Death rate:-** Death rate is the number of deaths per thousand population for a single year.
- 3) **Infant death rate:-** Infant death rate is the number of infant deaths (below one year) per thousand live births per year.
- 4) **Maternal death rate:-** Maternal death rate is defined as the number of maternal deaths per thousand live births and still births.
- 5) **Still birth rate:-** still birth rate is the number of still births per thousand live births and still births.

### **Birth and birth rate**

During the year under report 5.82 lakhs of registered live births comprising of 2.24 lakhs rural births and 3.58 lakhs urban births, were analysed. A small increase in the number of live births is seen as happened during the reporting year from 5.79 lakhs to 5.82 lakhs.

The birth rate of the state during 2002 was 18.05 whereas the rural birth rate 8.29 and urban birth rate is 68.26 respectively. Malappuram District stands first in having a birth rate of 23.46 and Alappuzha has the lowest birth rate- 13.73. Kozhikode and Kannur are also having higher birth rates – 21.58 and 19.37 respectively.

### **Death and death rates**

During the year 2002 there were 184597 deaths reported. The death in rural area is 123366 and that urban area is 61231 respectively. The death rate of the reporting year is 5.73 while the breakup against the rural area is 4.57 and that against urban area is 11.67 respectively. Pathanamthitta district is having the highest death rate being 6.94 and also Thrissur is having a death rate of 6.91. Malappuram has the lowest death rate being 3.87

### **Infant death rate**

Infant death rate is the death rate of infants having age below one year per thousand live births. The number of infant deaths registered during the reporting year is 3223 and the Infant death rate is 5.54. It is highest in Kozhikode being 12.35 and it is lowest in Kottayam being 1.43.

### **Maternal death rate**

Maternal death rate is the number of maternal deaths per thousand live births and stillbirths. The number of maternal deaths reported during the year was 76 in which 55 were in rural area and 21 in urban area.

### **Stillbirth**

The number of Stillbirths registered during the year was 2863 in which 817 happened in rural areas and 2046 in the urban. The still birth rate during the year under report is 4.9. It is highest in Kozhikode and lowest in Thiruvananthapuram district.

### **Conclusion**

Malappuram district is having the highest birth rate and also the lowest death rate. It can be seen that the live births and deaths slightly increased compared to the previous year. An important fact to be noted is that the vital rates are comparatively higher in urban areas than in rural sides. This may be because the public from the rural sides are approaching the hospitals of urban areas for availing better care and medical facilities.

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**Table 1 - Total number of live births, deaths, still births, infant deaths, maternal deaths and their rates**

District	Rural/ Urban	Estimated mid year population (000)	Live Births			Deaths		
			Number	Rate		Number	Rate	
				2002	2001		2002	2001
1	2	3	4	5	6	7	8	9
Thiruvananthapuram	Rural	2319	9416	4.06	4.56	9442	4.07	4.11
	Urban	959	50423	52.58	47.46	10210	10.65	13.59
	Total	3278	59839	18.25	17.16	19652	6.00	6.9
Kollam	Rural	2160	24288	11.24	8.81	10819	5.01	4.9
	Urban	451	20144	44.67	53.36	3616	8.02	6.23
	Total	2611	44432	17.02	16.58	14435	5.53	5.13
Pathanamthitta	Rural	1117	9831	8.80	9.09	6704	6.00	6.32
	Urban	125	10200	81.60	72.88	1918	15.34	13.01
	Total	1242	20031	16.13	15.49	8622	6.94	6.99
Alappuzha	Rural	1780	2793	1.57	2.34	8561	4.81	4.68
	Urban	345	26373	76.44	76.7	4677	13.56	9.19
	Total	2125	29166	13.73	14.38	13238	6.23	5.41
Kottayam	Rural	1811	25410	14.03	14.31	11825	6.53	6.48
	Urban	159	9633	60.58	57.17	1539	9.68	9.06
	Total	1970	35043	17.79	17.77	13364	6.78	6.69
Idukki	Rural	1093	11420	10.45	12.64	4029	3.69	4.1
	Urban	47	6165	131.17	116.92	595	12.66	7.04
	Total	1140	17585	15.43	16.93	4624	4.06	4.22
Eranakulam	Rural	2236	8752	3.91	3.78	10153	4.54	3.91
	Urban	908	48517	53.43	49.41	9271	10.21	12.9
	Total	3144	57269	18.22	17.04	19424	6.18	6.53
Thrissur	Rural	2464	16189	6.57	6.85	13714	5.57	6.01
	Urban	545	32220	59.12	71.05	7091	13.01	13.36
	Total	3009	48409	16.09	18.51	20805	6.91	7.34
Palakkad	Rural	2394	16575	6.92	9.03	10734	4.48	4.9
	Urban	256	23612	92.23	88.59	3038	11.87	9.51
	Total	2650	40187	15.16	16.74	13772	5.20	5.35
Malappuram	Rural	3365	49490	14.71	15.85	10823	3.22	3.49
	Urban	335	37299	111.34	108.93	3514	10.49	10
	Total	3700	86789	23.46	24.28	14337	3.87	4.08
Kozhikode	Rural	2329	15627	6.71	6.43	8802	3.78	3.73
	Urban	585	47267	80.80	69.15	10002	17.10	12.88
	Total	2914	62894	21.58	19.08	18804	6.45	5.58
Wayanad	Rural	765	11895	15.55	16.98	3253	4.25	3.76
	Urban	30	2745	91.50	87.76	249	8.30	12.36
	Total	795	14640	18.42	19.65	3502	4.41	4.09
Kannur	Rural	2052	12103	5.90	4.99	9829	4.79	4.42
	Urban	383	35067	91.56	86.28	4421	11.54	9.76
	Total	2435	47170	19.37	17.55	14250	5.85	5.25
Kasaragod	Rural	1102	9920	9.00	9.85	4678	4.25	3.78
	Urban	120	8551	71.26	106.05	1090	9.08	10.32
	Total	1222	18471	15.12	19.29	5768	4.72	4.43
State	Rural	26987	223709	8.29	8.63	123366	4.57	4.58
	Urban	5248	358216	68.26	66.88	61231	11.67	11.45
	<b>Total</b>	<b>32235</b>	<b>581925</b>	<b>18.05</b>	<b>18.13</b>	<b>184597</b>	<b>5.73</b>	<b>5.7</b>



Table 1 (Contd.)

District	Rural/ Urban	Still Births			Infant Deaths			Maternal Deaths		
		No	Rates		No	Rates		Number	Rates	
			2002	2001		2002	2001		2002	2001
1	2	10	11	12	13	14	15	16	17	18
Thiruvananthapuram	Rural	23	2.44	1.53	34	3.61	1.43	1	0.11	0.2
	Urban	12	0.24	6.57	410	8.13	8.8	0	0.00	0
	Total	35	0.58	8.1	444	7.42	10.23	1	0.02	0.04
Kollam	Rural	53	2.18	3.96	30	1.24	3.5	2	0.08	0
	Urban	72	3.56	1.82	76	3.77	3.11	0	0.00	0
	Total	125	2.81	2.76	106	2.39	3.28	2	0.04	0
Pathanamthitta	Rural	16	1.62	1.68	10	1.02	3.57	2	0.20	0
	Urban	39	3.81	1.33	25	2.45	3.1	1	0.10	0
	Total	55	2.74	1.52	35	1.75	3.35	3	0.15	0
Alappuzha	Rural	19	6.76	3.38	8	2.86	2.9	6	2.13	0
	Urban	128	4.83	7.09	147	5.57	2.06	2	0.08	0
	Total	147	5.01	6.59	155	5.31	2.18	8	0.27	0
Kottayam	Rural	143	5.60	7.98	39	1.53	21.64	4	0.16	0
	Urban	22	2.28	2.76	11	1.14	1.88	2	0.21	0
	Total	165	4.69	6.63	50	1.43	16.51	6	0.17	0
Idukki	Rural	26	2.27	1.97	46	4.03	3.79	0	0.00	0
	Urban	19	3.07	5.13	12	1.95	1.29	1	0.16	0
	Total	45	2.55	2.87	58	3.30	3.08	1	0.06	0
Eranakulam	Rural	38	4.32	11.28	75	8.57	6.48	16	1.82	0
	Urban	153	3.14	3.22	319	6.58	6.48	2	0.04	0
	Total	191	3.32	4.49	394	6.88	6.48	18	0.31	0
Thrissur	Rural	11	0.68	1.61	109	6.73	5.74	6	0.37	0.11
	Urban	262	8.07	6.81	466	14.46	7.92	0	0.00	0.06
	Total	273	5.61	5.24	575	11.88	7.26	6	0.12	0.08
Palakkad	Rural	30	1.81	1.77	5	0.30	2.43	2	0.12	0.04
	Urban	101	4.26	4.81	73	3.09	7.19	1	0.04	0.08
	Total	131	3.25	3.33	78	1.94	4.87	3	0.07	0.06
Malappuram	Rural	177	3.56	2.01	40	0.81	1.63	4	0.08	0
	Urban	288	7.66	2.94	150	4.02	5.19	2	0.05	0
	Total	465	5.33	2.39	190	2.19	3.08	6	0.07	0
Kozhikode	Rural	43	2.74	2.15	43	2.75	1.08	1	0.06	0
	Urban	617	12.89	11.17	734	15.53	4.45	6	0.13	0
	Total	660	10.38	8.76	777	12.35	3.54	7	0.11	0
Wayanad	Rural	91	7.59	7.83	62	5.21	6.89	0	0.00	0
	Urban	0	0.00	1.52	14	5.10	9.92	1	0.36	0
	Total	91	6.18	6.78	76	5.19	7.4	1	0.07	0
Kannur	Rural	91	7.46	5.95	89	7.35	12.26	4	0.33	0
	Urban	207	5.87	3.15	159	4.53	3.04	1	0.03	0
	Total	298	6.28	3.83	248	5.26	5.26	5	0.11	0
Kasaragod	Rural	56	5.61	3.16	22	2.22	1.86	7	0.70	0
	Urban	126	14.52	5.85	15	1.75	3.66	2	0.23	0
	Total	182	9.76	4.61	37	2.00	2.83	9	0.48	0
State	Rural	817	3.64	3.68	612	2.74	5.53	55	0.24	0.02
	Urban	2046	5.68	5.29	2611	7.29	5.37	21	0.06	0.01
	Total	2863	4.90	4.65	3223	5.54	5.43	76	0.13	0.02

Table 2 - Census populations of districts (rural, urban – sex-wise)

Sl No	Districts	Population of Towns as per census 2001					Population of Muni./corp.	
		Total	Rural		Urban		Male	Female
			Male	Female	Male	Female		
1	2	3	4	5	6	7	8	9
1	Thiruvananthapuram	3234356	1035265	1107430	534652	557009	463480	483529
2	Kollam	2585208	1021415	1097815	228206	237772	218959	228488
3	Pathanamthitta	1234016	529823	580395	59575	64223	59575	64223
4	Alappuzha	2109160	712867	774836	301662	319795	166485	178070
5	Kottayam	1953646	817819	836019	147107	152701	77000	80976
6	Idukki	1129221	538064	533564	28618	28975	22851	23395
7	Eranakulam	3105798	808609	820104	729788	747297	444802	454317
8	Thrissur	2974232	1018315	1116484	403737	435696	259558	279676
9	Palakkad	2617482	1093515	1167392	173470	183105	123109	130815
10	Malappuram	3625471	1581794	1687507	172782	183388	159116	168843
11	Kozhikode	2879131	863632	914342	535726	565431	281350	300035
12	Wayanad	780619	376424	374583	14849	14763	14849	14763
13	Kannur	2408956	578544	617514	574273	638625	181169	196800
14	Kasaragod	1204078	475196	495182	112887	120813	57284	60853
	<b>State</b>	<b>31841374</b>	<b>11451282</b>	<b>12123167</b>	<b>4017332</b>	<b>4249593</b>	<b>2529587</b>	<b>2664783</b>

**Table 3 -Total number of Live-Births, Deaths, and Infant Deaths in Corporations and Municipalities having Population of 30000 and above**

Sl No	Corporations/ Municipalities	Births				Deaths				
		Total	Male	Fe-male	Sex not reported	Total	Male	Fe-male	Sex not reported	Infant death
1	2	3	4	5	6	7	8	9	10	11
1	Attingal (M)	1078	538	499	41	192	99	76	17	0
2	Nedumangad (M)	1399	684	710	5	242	127	100	15	2
3	Neyyattinkara (M)	1513	789	706	18	580	347	229	4	1
4	Varkala (M)	721	341	359	21	312	181	122	9	1
5	Thiruvananthapuram (C)	45712	23150	21685	877	8884	5275	3041	568	406
6	Paravoor (M)	7	4	3	0	166	75	72	19	0
7	Punalur (M)	3714	1933	1753	28	425	246	174	5	7
8	Kollam (C)	16423	8348	8040	35	3025	1906	1068	51	69
9	Pathanamthitta (M)	3450	1825	1593	32	562	363	187	12	10
10	Thiruvalla (M)	4385	2188	2112	85	934	548	335	51	13
11	Alappuzha (M)	13040	6721	6233	86	2442	1469	860	113	95
12	Cherthala (M)	3539	1764	1721	54	933	458	320	155	3
13	Kayamkulam (M)	4872	2344	2321	207	405	204	123	78	1
14	Changanassery (M)	1928	962	956	10	278	167	103	8	1
15	Kottayam (M)	3954	1987	1941	26	682	391	240	51	4
16	Thodupuzha (M)	6165	2927	2887	351	595	359	232	4	12
17	Angamaly (M)	2436	1234	1192	10	555	348	192	15	19
18	Kalamassery (M)	5	2	1	2	198	104	64	30	1
19	Kothamangalam (M)	4515	2238	2237	40	529	292	225	12	9
20	North Parur (M)	3915	2048	1823	44	529	308	211	10	10
21	Thrippunithura (M)	2496	1265	1201	30	546	315	170	61	0
22	Kochi (C)	24942	12867	11855	220	5784	3574	2113	97	264
23	Chalakkudy (M)	4335	2242	2075	18	518	323	188	7	15
24	Chavakkad (M)	1095	551	534	10	324	175	111	38	0
25	Kodungallur (M)	5118	2738	2363	17	479	285	185	9	12
26	Kunnamkulam (M)	4352	2233	2074	45	492	272	184	36	15
27	Thrissur (C)	15100	7740	6995	365	4905	2826	1725	354	423
28	Chittoor Thathamangal (M)	306	155	148	3	221	111	103	7	0
29	Ottappalam (M)	8645	4560	4069	16	620	368	217	35	9
30	Palakkad (M)	13464	6971	6399	94	1953	1168	696	89	64
31	Shornur (M)	1197	588	595	14	244	133	87	24	0
32	Malappuram (M)	7513	3800	3680	33	477	277	189	11	2
33	Manjeri (M)	9675	4844	4806	25	844	538	297	9	93
34	Perinthalmanna (M)	10185	5146	4966	73	1280	759	427	94	52
35	Ponnani (M)	1674	849	794	31	361	194	141	26	1
36	Tirur (M)	8252	4143	3977	132	552	272	232	48	2
37	Quilandy (M)	551	259	268	24	404	224	168	12	3
38	Vadakara (M)	3473	1738	1728	7	858	527	318	13	3
39	Kozhikode (C)	43243	22412	20792	39	8740	5472	3227	41	728
40	Kalpetta (M)	2745	1357	1322	66	249	144	82	23	14
41	Kannur (M)	5727	2951	2726	50	737	419	297	21	52
42	Mattannur (M)	2918	1459	1428	31	217	124	83	10	2
43	Payyannur (M)	5117	2629	2447	41	587	306	205	76	13
44	Thalassery (M)	11522	5932	5474	116	1899	1123	667	109	70
45	Thaliparambu (M)	5461	2756	2693	12	447	266	156	25	18
46	Kanjhagad (M)	1035	525	493	17	544	339	198	7	10
47	Kasaragod (M)	7516	3804	3665	47	546	328	174	44	5
	Total	330428	168541	158339	3548	57296	34129	20614	2553	2534

**Table 4 - Total number of Births, Deaths, and Infant Deaths in Corporations and Municipalities having a Population of 30000 and above - District wise - 2002**

Sl No	Districts	Births	Deaths	Infant Death
1	2	3	4	5
1	Thiruvananthapuram	50423	10210	410
2	Kollam	20144	3616	76
3	Pathanamthitta	7835	1496	23
4	Alappuzha	21451	3780	99
5	Kottayam	5882	960	5
6	Idukki	6165	595	12
7	Eranakulam	38309	8141	303
8	Thrissur	30000	6718	465
9	Palakkad	23612	3038	73
10	Malappuram	37299	3514	150
11	Kozhikode	47267	10002	734
12	Wayanad	2745	249	14
13	Kannur	30745	3887	155
14	Kasaragod	8551	1090	15
	<b>State</b>	<b>330428</b>	<b>57296</b>	<b>2534</b>

**Table 5 - Total number of vital events and its rates in corporation/ municipalities**

Sl. No	Corporations / Municipalities	Estimated mid year population	Live birth		Death		Infant death	
			No.	Rate	No.	Rate	No.	Rate
1	2	3	4	5	6	7	8	9
1	Attingal (M)	36122	1078	29.84	192	5.32		
2	Nedumangad (M)	57031	1399	24.53	242	4.24	2	1.43
3	Neyyattinkara (M)	70362	1513	21.5	580	8.24	1	0.66
4	Varkala (M)	40966	721	17.6	312	7.62	1	1.39
5	Thiruvananthapuram(C)	754576	45712	60.58	8884	11.77	406	8.88
6	Paravoor (M)	38852	7	0.18	166	4.27		
7	Punalur (M)	47364	3714	78.41	425	8.97	7	1.88
8	Kollam (C)	365047	16423	44.99	3025	8.29	69	4.2
9	Adoor (M)	29275	2365	80.79	422	14.42	2	0.85
10	Pathanamthitta (M)	38302	3450	90.07	562	14.67	10	2.9
11	Thiruvalla (M)	57117	4385	76.77	934	16.35	13	2.96
12	Alappuzha (M)	177346	13040	73.53	2442	13.77	95	7.29
13	Chengannur (M)	25560	1092	42.72	282	11.03	4	3.66
14	Cherthala (M)	45348	3539	78.04	933	20.57	3	0.85
15	Kayamkulam (M)	68778	4872	70.84	405	5.89	1	0.21
16	Mavelikkara (M)	28458	3830	134.58	615	21.61	44	11.49
17	Changanassery (M)	52468	1928	36.75	278	5.3	1	0.52
18	Kottayam (M)	61311	3954	64.49	682	11.12	4	1.01
19	Pala (M)	22858	2740	119.87	326	14.26	5	1.82
20	Vaikom (M)	22859	1011	44.23	253	11.07	1	0.99

Table 5 contd.

Sl. No	Corporations / Municipalities	Estimated mid year population	Live birth		Death		Infant death	
			No.	Rate	No.	Rate	No.	Rate
1	2	3	4	5	6	9	10	11
21	Thodupuzha (M)	47047	6165	131.04	595	12.65	12	1.95
22	Aluva (M)	24420	4097	167.77	408	16.71	2	0.49
23	Angamaly (M)	33833	2436	72	555	16.4	19	7.8
24	Kalamassery (M)	64389	5	0.08	198	3.08	1	2.00
25	Kothamangalam (M)	37397	4515	120.73	529	14.15	9	1.99
26	Moovattupuzha (M)	29473	3546	120.31	408	13.84	2	0.56
27	North Parur (M)	30358	3915	128.96	529	17.43	10	2.55
28	Perumbavoor (M)	26808	2565	95.68	314	11.71	12	4.68
29	Thrippunithura (M)	61167	2496	40.81	546	8.93		
30	Kochi (C)	599835	24942	41.58	5784	9.64	264	10.58
31	Chalakkudy (M)	48840	4335	88.76	518	10.61	15	3.46
32	Chavakkad (M)	38185	1095	28.68	324	8.49		
33	Guruvayoor (M)	21319	365	17.12	122	5.72		
34	Iringalakuda (M)	29063	1855	63.83	251	8.64	1	0.54
35	Kodungaliur (M)	33857	5118	151.17	479	14.15	12	2.34
36	Kunnamkulam (M)	52173	4352	83.41	492	9.43	15	3.45
37	Thrissur (C)	321101	15100	47.03	4905	15.28	423	28.01
38	Chittoor-Thathamangal (M)	32296	306	9.47	221	6.84		
39	Ottappalam (M)	49959	8645	173.04	620	12.41	9	1.04
40	Pafakkad (M)	131798	13464	102.16	1953	14.82	64	4.75
41	Shornur (M)	42371	1197	28.25	244	5.76		
42	Malappuram (M)	59777	7513	125.68	477	7.98	2	0.27
43	Manjeri (M)	85837	9675	112.71	844	9.83	93	9.61
44	Perinthalmanna (M)	45415	10185	224.27	1280	28.18	52	5.11
45	Ponnani (M)	89333	1674	18.74	361	4.04	1	0.6
46	Tirur (M)	54241	8252	152.14	552	10.18	2	0.24
47	Quilandy (M)	69870	551	7.89	404	5.78	3	5.44
48	Vadakara (M)	76314	3473	45.51	858	11.24	3	0.86
49	Kozhikode (C)	438838	43243	98.54	8740	19.92	728	16.84
50	Kalpetta (M)	30186	2745	90.94	249	8.25	14	5.1
51	Kannur (M)	64412	5727	88.91	737	11.44	52	9.08
52	Kuthuparambu (M)	29616	1993	67.29	188	6.35	3	1.51
53	Mattannur (M)	44847	2918	65.07	217	4.84	2	0.69
54	Payyannur (M)	69387	5117	73.75	587	8.46	13	2.54
55	Thalassery (M)	100989	11522	114.09	1899	18.8	70	6.08
56	Thaliparambu (M)	68542	5461	79.67	447	6.52	18	3.3
57	Kanhangad (M)	66703	1035	15.52	544	8.16	10	9.66
58	Kasaragod (M)	52978	7516	141.87	546	10.31	5	0.67
59	Kannur contonment	4774	2329	487.85	346	72.48	1	0.43
	Grand Total	5247748	358216	68.26	61231	11.67	2611	7.29

Table 6 - Live birth by type of attention at delivery 2002 - rural and urban

SI No	Districts	Total	Institutional Govt	Institutional Private	Rural Physician, Nurse & Trained midwife	Un-qualified mid wife	Others
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	59839	6979	1906	103	216	212
2	Kollam	44432	12758	10821	136	471	102
3	Pathanamthitta	20031	5486	3271	94	820	160
4	Alappuzha	29166	544	1832	34	320	63
5	Kottayam	35043	15091	8657	200	1124	338
6	Idukki	17585	6879	3442	199	716	184
7	Eranakulam	57269	5099	2993	132	423	105
8	Thrissur	48409	9629	5922	288	190	160
9	Palakkad	40187	9318	5067	269	1345	576
10	Malappuram	86789	15133	23925	2178	6327	1927
11	Kozhikode	62894	7286	7613	247	330	151
12	Wayanad	14640	6997	4466	42	307	83
13	Kannur	47170	4379	7264	170	209	81
14	Kasaragod	18471	4777	2319	952	1193	679
	<b>State</b>	<b>581925</b>	<b>110355</b>	<b>89498</b>	<b>5044</b>	<b>13991</b>	<b>4821</b>

SI NO	District	Urban Towns with Population <sup>2001-02</sup>									
		Below 30000					Above 30000				
		Institutional Govt	Institutional Private	Physician, Nurse & Trained midwife	Un-qualified mid wife	Others	Institutional Govt	Institutional Private	Physician, Nurse & Trained midwife	Un-qualified mid wife	Others
1	2	9	10	11	12	13	14	15	16	17	
1	Thiruvananthapuram						37523	12390	240	32	238
2	Kollam						10239	9646	198	21	40
3	Pathanamthitta	1920	416	6	17	6	6068	1721	11	19	16
4	Alappuzha	2668	1834	32	323	65	14880	6412	44	15	100
5	Kottayam	2162	1564	24		1	4577	1187	91	21	6
6	Idukki						4923	987	230	20	5
7	Eranakulam	7166	2876	147	10	9	28498	8967	522	225	97
8	Thrissur	1694	512	10	3	1	18402	11037	394	41	126
9	Palakkad						13607	9912	32	41	20
10	Malappuram						17486	18819	108	226	660
11	Kozhikode						40376	6119	431	42	299
12	Wayanad						1431	1305			9
13	Kannur	3103	1174		45		19084	11432	59	45	125
14	Kasaragod						5508	2785	167	6	85
	<b>Total</b>	<b>18713</b>	<b>8376</b>	<b>219</b>	<b>398</b>	<b>82</b>	<b>222602</b>	<b>102719</b>	<b>2527</b>	<b>754</b>	<b>1826</b>

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**Table 7- Live birth according to order of birth and literacy of mother for the state (rural) 2002**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	530	1564	26937	52626	14984	551	97192
02	634	1862	26738	42548	9405	567	81754
03	454	1298	14211	11244	1426	321	28954
04	235	767	5439	2607	257	169	9474
05	99	445	2011	554	66	75	3250
06	60	262	832	167	33	51	1405
07	31	142	417	83	19	36	728
08	15	113	198	61	10	18	415
09	22	49	115	33	16	30	265
10	7	43	49	23	8	7	137
11	5	11	25	11	5	0	57
12	1	7	9	2	1	1	21
13 & above	1	2	10	16	4	1	34
Not stated	0	3	6	6	1	7	23
<b>Total</b>	<b>2094</b>	<b>6568</b>	<b>76997</b>	<b>109981</b>	<b>26235</b>	<b>1834</b>	<b>223709</b>

**Table 8 - Live birth according to order of birth and literacy of mother for the state (urban) 2002**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	549	2121	40408	94263	36407	1036	174784
02	538	2407	37512	72965	21137	789	135348
03	344	1291	15387	15507	2276	267	35072
04	142	506	4913	2771	325	112	8769
05	62	228	1562	570	74	43	2539
06	34	99	529	155	16	19	852
07	25	75	187	59	13	9	368
08	3	31	105	42	10	8	199
09	12	17	46	14	7	7	103
10	4	13	36	21	5	2	81
11		8	12	9	6		35
12	1	7	3	7	1		19
13 and above		2	6	5	2	1	16
Not reported	1	1	4	12	2	11	31
<b>Total</b>	<b>1715</b>	<b>6806</b>	<b>100710</b>	<b>186400</b>	<b>60281</b>	<b>2304</b>	<b>358216</b>

**Table 9 - Live birth according to order of birth and literacy of mother for the state Kerala**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	1079	3685	67345	146889	51391	1587	271976
02	1172	4269	64250	115513	30542	1356	217102
03	798	2589	29598	26751	3702	588	64026
04	377	1273	10352	5378	582	281	18243
05	161	673	3573	1124	140	118	5789
06	94	361	1361	322	49	70	2257
07	56	217	604	142	32	45	1096
08	18	144	303	103	20	26	614
09	34	66	161	47	23	37	368
10	11	56	85	44	13	9	218
11	5	19	37	20	11		92
12	2	14	12	9	2	1	40
13 and above	1	4	16	21	6	2	50
Not reported	1	4	10	18	3	18	54
<b>Total</b>	<b>3809</b>	<b>13374</b>	<b>177707</b>	<b>296381</b>	<b>86516</b>	<b>4138</b>	<b>581925</b>

**Table 10 - Live birth according to order of birth and literacy of father for the state (rural) 2002**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	698	2487	35122	46822	11263	800	97192
02	801	3196	33200	36083	7727	747	81754
03	449	2200	15313	9139	1479	374	28954
04	222	1198	5312	2221	341	180	9474
05	88	573	1872	555	80	82	3250
06	46	308	748	207	39	57	1405
07	26	158	384	91	23	46	728
08	18	101	209	55	10	22	415
09	10	53	125	29	22	26	265
10	3	44	54	24	6	6	137
11	5	11	30	10	1		57
12	2	5	10	3		1	21
13 and above	1	3	7	21	1	1	34
Not reported		1	8	2	5	7	23
<b>Total</b>	<b>2369</b>	<b>10338</b>	<b>92394</b>	<b>95262</b>	<b>20997</b>	<b>2349</b>	<b>223709</b>



**Table 11- Live birth according of birth and literacy of father for Kerala 2002(urban)**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	959	3720	53354	88015	27324	1412	174784
02	850	4254	48552	63866	16781	1045	135348
03	461	2176	16890	12991	2207	347	35072
04	162	848	4749	2533	351	126	8769
05	54	354	1409	600	82	40	2539
06	30	148	443	188	21	22	852
07	21	88	186	56	11	6	368
08	4	34	107	41	5	8	199
09	8	22	38	17	11	7	103
10	2	15	36	18	6	4	81
11	2	8	15	7	2	1	35
12	2	4	3	6	3	1	19
13 and above		2	5	8	1		16
Not reported	1	1	8	9	3	9	31
<b>Total</b>	<b>2556</b>	<b>11674</b>	<b>125795</b>	<b>168355</b>	<b>46808</b>	<b>3028</b>	<b>358216</b>

**Table 12 - Live birth according to order of birth and literacy of father for the state 2002**

Order of Birth	Level of Literacy						Total
	Illiterate	Below Primary	Primary but below Matric	Matric but below Graduate	Graduate and above	Not Reported	
1	2	3	4	5	6	7	8
01	1657	6207	88476	134837	38587	2212	271976
02	1651	7450	81752	99949	24508	1792	217102
03	910	4376	32203	22130	3686	721	64026
04	384	2046	10061	4754	692	306	18243
05	142	927	3281	1155	162	122	5789
06	76	456	1191	395	60	79	2257
07	47	246	570	147	34	52	1096
08	22	135	316	96	15	30	614
09	18	75	163	46	33	33	368
10	5	59	90	42	12	10	218
11	7	19	45	17	3	1	92
12	4	9	13	9	3	2	40
13 & above	1	5	12	29	2	1	50
Not reported	1	2	16	11	8	16	54
<b>Total</b>	<b>4925</b>	<b>22012</b>	<b>218189</b>	<b>263617</b>	<b>67805</b>	<b>5377</b>	<b>581925</b>

Table-13 - Live birth according to order of birth and occupation of father - Kerala (rural) 2002

Order of Birth	Professional Technical and related worker*	Administrative and Executive workers	Clerical work	Sale workers	Service workers	Farmers Fishers Hunters Loggers and related workers	Production & other related workers, transport and other equipment operators and labours	Others whose occupation is and else where classified	Non workers	Not reported	Total
	2	3	4	5	6	7	8	9	10	11	12
01	1219	463	4905	10477	2493	7550	58780	5117	5597	591	97192
02	694	228	3750	8202	2244	7357	49780	4006	4973	520	81754
03	123	44	719	2735	502	2625	18732	1628	1666	180	28954
04	34	14	170	882	176	919	6010	650	544	75	9474
05	4	3	69	287	72	354	2007	182	244	28	3250
06	5	1	26	88	45	164	853	71	135	17	1405
07	2		12	49	19	120	357	17	115	37	728
08			7	35	16	72	205	8	59	13	415
09	1		12	12	14	54	102	3	33	34	265
10	3			15	7	31	57	8	15	1	137
11			1	5		9	33	1	7	1	57
12				4	1	4	8		3	1	21
13 & above			3	4		2	10		15		34
Not reported			1	1	1	4	3	3	4	6	23
<b>Total</b>	<b>2085</b>	<b>753</b>	<b>9675</b>	<b>22796</b>	<b>5590</b>	<b>19265</b>	<b>136937</b>	<b>11694</b>	<b>13410</b>	<b>1504</b>	<b>223709</b>

Table -14 - Live birth according to order of birth and occupation of father Kerala (urban) 2002

Order of Birth	Professional	Administrative	Clerical	Sale	Service	Farmers Fishers	Production & other	Others whose	Non	Not	Total
	Technical and related worker	and Executive workers	work	workers	workers	Hunters Loggeters & related workers	related workers, transport and other equipment operators & labours	occupation is and else where classified	workers	reported	
	2	3	4	5	6	7	8	9	10	11	12
01	3308	1751	12286	21686	5837	7825	103504	11767	5959	861	174784
02	1995	902	8309	16366	4375	7400	82619	8574	4225	583	135348
03	228	103	986	4583	570	2372	22111	2986	1023	110	35072
04	36	19	148	1262	118	599	5383	870	301	33	8769
05	9	3	44	331	59	170	1558	254	95	16	2539
06	6		26	118	22	45	537	54	33	11	852
07			8	42	9	27	240	13	23	6	368
08	1		6	23	3	13	128	8	14	3	199
09	2		2	9	5	14	52	3	10	6	103
10			3	6		16	48	4	4		81
11				6	1	1	21		4	2	35
12	1		1	2	1	1	12		2		19
13 & above			1	4	1	1	6	2	1		16
Not reported				1		1	18	2	3	6	31
<b>Total</b>	<b>5586</b>	<b>2778</b>	<b>21820</b>	<b>44439</b>	<b>11000</b>	<b>18485</b>	<b>216237</b>	<b>24537</b>	<b>11697</b>	<b>1637</b>	<b>358216</b>

Table 15 - Live birth according to order of birth and occupation of father Kerala State 2002

Order of Birth	Professional Technical and related worker	Administrative and Executive workers	Clerical work	Sale workers	Service workers	Farmers Fishers Hunters Loggers & related workers	Production & other related workers, transport and other equipment operators & labours	Others whose occupation is and else where classified	Non workers	Not reported	Total
	2	3	4	5	6	7	8	9	10	11	12
01	4527	2214	17191	32163	8330	15375	162284	16884	11556	1452	271976
02	2689	1130	12059	24568	6619	14757	132399	12580	9198	1103	217102
03	351	147	1705	7318	1072	4997	40843	4614	2689	290	64026
04	70	33	318	2144	294	1518	11393	1520	845	108	18243
05	13	6	113	618	131	524	3565	436	339	44	5789
06	11	1	52	206	67	209	1390	125	168	28	2257
07	2		20	91	28	147	597	30	138	43	1096
08	1		13	58	19	85	333	16	73	16	614
09	3		14	21	19	68	154	6	43	40	368
10	3		3	21	7	47	105	12	19	1	218
11			1	11	1	10	54	1	11	3	92
12	1		1	6	1	5	20	2	5	1	40
13 & above			4	8	1	3	16	2	16		50
Not reported			1	2	1	5	21	5	7	12	54
<b>Total</b>	<b>7671</b>	<b>3531</b>	<b>31495</b>	<b>67235</b>	<b>16590</b>	<b>37750</b>	<b>353174</b>	<b>36231</b>	<b>25107</b>	<b>3141</b>	<b>581925</b>

Table - 16 - Live birth by order of birth and age of mother - rural - 2002

Order of Birth	Age of Mother											45 & above	Age not reported	All Ages
	Below 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	9	10	11				
1	2	3	4	5	6	7	8	9	10	11	104	97192		
	4	17113	50181	24159	4585	848	97	101			63	81754		
2		945	33179	33087	12221	1883	115	261			24	28954		
3		75	7329	13789	6013	1571	112	41			6	9474		
4		78	1318	4075	2940	933	93	31			3	3250		
5			183	948	1302	714	85	15			2	1405		
6			44	262	544	450	81	22			5	728		
7			17	116	237	268	71	14			5	415		
8			8	63	76	185	64	14			58	265		
9				11	53	87	46	10			1	137		
10				7	39	43	34	13				57		
11				3	4	25	11	14				21		
12					3	6	5	7				34		
13 & Above					5	19	9	1				23		
Not Stated					1	1	2	9			10			
<b>Total</b>	<b>4</b>	<b>18211</b>	<b>92259</b>	<b>76520</b>	<b>28023</b>	<b>7033</b>	<b>825</b>	<b>553</b>	<b>281</b>	<b>223709</b>				

Table - 17 - Live birth by order of birth and age of mother - urban - 2002

Order of Birth	Age of Mother									All Ages
	Below 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 & above	Age not reported	
1	2	3	4	5	6	7	8	9	10	11
1	4	24342	89458	48319	10075	2038	207	132	209	174784
2		1421	46436	58824	23849	4235	256	232	95	135348
3		85	7831	16936	7916	2074	165	44	21	35072
4		74	1147	3853	2717	879	70	23	6	8769
5			149	761	1033	536	44	13	3	2539
6			32	183	331	265	30	8	3	852
7			11	77	106	141	26	7		368
8			7	51	45	79	13	4		199
9				2	32	43	15	1	10	103
10				5	43	18	10	4	1	81
11				1	2	15	13	4		35
12					10	4	5			19
13 & Above Not Stated					10	3	3			16
					2	2	1	10	16	31
<b>Total</b>	<b>4</b>	<b>25922</b>	<b>145071</b>	<b>129012</b>	<b>46171</b>	<b>10332</b>	<b>858</b>	<b>482</b>	<b>364</b>	<b>358216</b>

Table – 18 - Live birth by order of birth and age of mother – Kerala – 2002

Order of Birth	Age of Mother									All Ages
	Below 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 & above	Age not reported	
1	2	3	4	5	6	7	8	9	10	11
1	8	41455	139639	72478	14660	2886	304	233	313	271976
2		2366	79615	91911	36070	6118	371	493	158	217102
3		160	15160	30725	13929	3645	277	85	45	64026
4		152	2465	7928	5657	1812	163	54	12	18243
5			332	1709	2335	1250	129	28	6	5789
6			76	445	875	715	111	30	5	2257
7			28	193	343	409	97	21	5	1096
8			15	114	121	264	77	18	5	614
9				13	85	130	61	11	68	368
10				12	82	61	44	17	2	218
11				4	6	40	24	18		92
12					13	10	10	7		40
13 & Above					15	22	12	1		50
Not Stated					3	3	3	19	26	54
	<b>8</b>	<b>44133</b>	<b>237330</b>	<b>205532</b>	<b>74194</b>	<b>17365</b>	<b>1683</b>	<b>1035</b>	<b>645</b>	<b>581925</b>

TABLE - 19

## Live Birth By Age Of Mother In Municipalities And Corporations - Kerala - 2002

Sl. No.	Municipality/ Corporation	Age of Mother								NR	Total
		Below 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 & above		
1	2	3	4	5	6	7	8	9	10	11	12
1	Attingal (M)		67	437	414	137	21	1		1	1078
2	Nedumangad (M)		110	760	423	88	14	2		2	1399
3	Neyyattinkara (M)		70	718	582	117	23	1		2	1513
4	Varkala (M)		39	298	274	96	12	1		1	721
5	Thiruvananthapuram(C)		1763	18908	17188	6310	1317	88	21	117	45712
6	Paravoor (M)			2	3	2					7
7	Punalur (M)		217	1620	1358	423	78	8	3	7	3714
8	Kollam (C)		760	7355	6220	1793	266	15	14		16423
9	Adoor (M)		82	970	950	319	38	4	2		2365
10	Pathanamthitta (M)		132	1284	1433	505	82	3	11		3450
11	Thiruvalla (M)		66	1171	2093	812	205	22	16		4385
12	Alappuzha (M)		397	4837	5472	1877	355	28	58	16	13040
13	Chengannur (M)		6	292	533	224	31	4	2		1092
14	Cherthala (M)		31	1103	1577	691	126	10	1		3539
15	Kayamkulam (M)		177	2246	1882	490	68	4	5		4872
16	Mavelikkara (M)		74	1223	1668	680	151	16	17	1	3830
17	Changanassery (M)		25	509	933	377	77	6	1		1928
18	Koottayam (M)		41	1051	1910	782	147	11	12		3954
19	Pala (M)		32	560	1263	690	184	11			2740
20	Vaikom (M)		12	241	491	234	30	3			1011
21	Thodupuzha (M)		95	1509	2761	1397	375	27	1		6165
22	Aluva (M)		89	1547	1788	580	84	7	2		4097
23	Angamaly (M)		25	708	1142	458	97	6			2436
24	Kalamassery (M)			1	2	1				1	5
25	Kothamangalam (M)		58	1402	1997	855	164	21	17	1	4515
26	Moovattupuzha (M)		100	1149	1526	650	103	11	7		3546
27	North Parur (M)		67	1373	1669	670	130	3	3		3915
28	Perumbavoor (M)		52	899	1125	418	59	8	4		2565
29	Thrippunithura (M)		23	676	1217	485	84	8	3		2496
30	Kochi (C)	1	504	8044	10703	4544	1014	101	4	27	24942



Table 19 contd.

Sl. No.	Municipality/ Corporation	Age of Mother								NR	Total
		Below 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 & above		
1	2	3	4	5	6	7	8	9	10	11	12
31	Chalakkudy (M)		71	1560	1909	673	110	10	2		4335
32	Chavakkad (M)		63	508	383	117	21			3	1095
33	Guruvayoor (M)		22	151	131	49	10	1		1	365
34	Iringalakuda (M)		69	657	796	274	54	3	2		1855
35	Kodungallur (M)		149	2227	1964	628	138	10	1	1	5118
36	Kunnamkulam (M)		377	2021	1385	484	79	4	2		4352
37	Thrissur (C)		760	6195	5565	1984	481	49	53	13	15100
38	Chittoor-Thathamangal		6	136	114	37	7		3	3	306
39	Ottappalam (M)	1	1695	3880	2179	677	182	25	2	4	8645
40	Palakkad (M)		1409	6190	4264	1239	281	23	3	55	13464
41	Shornur (M)		117	546	365	133	28	2	1	5	1197
42	Malappuram (M)		1425	3165	1784	825	278	25	11		7513
43	Manjeri (M)		2201	3912	2391	855	260	26	30		9675
44	Perinthalmanna (M)	2	2474	4231	2305	840	277	25	31		10185
45	Ponnani (M)		168	855	464	134	50	1	2		1674
46	Tirur (M)		1000	3865	2226	809	291	18	43		8252
47	Quilandy (M)		71	217	156	65	36	6			551
48	Vadakara (M)		398	1557	1072	342	92	6	6		3473
49	Kozhikkodu (C)		4881	19827	13285	4088	959	79	26	98	43243
50	Kalpetta (M)		299	1300	855	233	52	3	3		2745
51	Kannur (M)		497	2318	1971	724	194	17	6		5727
52	Kuthuparambu (M)		157	937	641	204	51	2	1		1993
53	Mattannur (M)		203	1442	945	256	63	8	1		2918
54	Payyannur (M)		298	2353	1819	517	123	6	1		5117
55	Thalassery (M)		701	5000	4045	1393	347	25	11		11522
56	Thaliparambu (M)		339	2324	2001	614	158	20		5	5461
57	Kanjhagad (M)		74	494	327	104	31	3	2		1035
58	Kasaragod (M)		714	3214	2281	936	313	27	31		7516
59	Kannur Cantonment		170	1096	792	232	31	4	4		2329
	<b>Total</b>	<b>4</b>	<b>25922</b>	<b>145071</b>	<b>129012</b>	<b>46171</b>	<b>10332</b>	<b>858</b>	<b>482</b>	<b>364</b>	<b>358216</b>

Table - 20 - Birth by Religion in the Corporations and Municipalities of Kerala - 2002

Sl. No.	Municipality/Corporation	Hindu	Muslim	Christian	Others	Religion not reported	Total
1	2	3	4	5	6	7	8
1	Attingal (M)	747	314	11	1	5	1078
2	Nedumangad (M)	865	307	186	39	2	1399
3	Neyyattinkara (M)	693	109	680	1	30	1513
4	Varkala (M)	467	220	25	5	4	721
5	Thiruvananthapuram(C)	28732	7827	8667	267	219	45712
6	Paravoor (M)	4		3			7
7	Punalur (M)	2251	679	638		146	3714
8	Kollam (C)	9556	3867	2633	9	358	16423
9	Adoor (M)	1554	167	571	43	30	2365
10	Pathanamthitta (M)	2034	265	1093	14	44	3450
11	Thiruvalla (M)	1896	161	2255	20	53	4385
12	Alappuzha (M)	7639	2384	2652	47	318	13040
13	Chengannur (M)	676	13	382	4	17	1092
14	Cherthala (M)	2708	165	605	31	30	3539
15	Kayamkulam (M)	3659	801	330	19	63	4872
16	Mavelikkara (M)	1888	453	1394	23	72	3830
17	Changanassery (M)	970	179	764	3	12	1928
18	Kottayam (M)	2082	189	1606	5	72	3954
19	Pala (M)	1338	167	1218		17	2740
20	Vaikom (M)	859	40	111		1	1011
21	Thodupuzha (M)	2333	986	2802	7	37	6165
22	Aluva (M)	1699	1681	682	6	29	4097
23	Angamaly (M)	543	22	1859		12	2436
24	Kalamassery (M)			4		1	5
25	Kothamangalam (M)	1702	436	2333	7	37	4515
26	Moovattupuzha (M)	1501	949	1036	6	54	3546
27	North Parur (M)	2467	354	998	9	87	3915
28	Perumbavoor (M)	1128	565	833	1	38	2565
29	Thrissur (M)	1778	100	573	3	42	2496
30	Kochi (C)	10306	5363	9107	75	91	24942
31	Chalakkudy (M)	1600	118	2601	8	8	4335

Table 20 contd.

Sl. No.	Municipality/ Corporation	Hindu	Muslim	Christian	Others	Religion not reported	Total
1	2	3	4	5	6	7	8
32	Chavakkad (M)	533	519	23		20	1095
33	Guruvayoor (M)	165	179	12		9	365
34	Iringalakuda (M)	1402	92	322		39	1855
35	Kodungallur (M)	2691	1867	418	18	124	5118
36	Kunnamkulam (M)	2413	1439	473		27	4352
37	Thrissur (C)	8696	1956	4143	38	267	15100
38	Chittoor-Thathamangal	252	49	3		2	306
39	Ottappalam (M)	4548	3775	133	61	128	8645
40	Palakkad (M)	8870	3655	350	48	541	13464
41	Shornur (M)	862	306	24		5	1197
42	Malappuram (M)	1103	6188	60	55	107	7513
43	Manjeri (M)	3192	6138	132	13	200	9675
44	Perinthalmanna (M)	2247	7558	233	11	136	10185
45	Ponnani (M)	388	1248	1	1	36	1674
46	Tirur (M)	1920	6209	62	5	56	8252
47	Quilandy (M)	73	466	1	1	10	551
48	Vadakara (M)	1320	2043	48	6	56	3473
49	Kozhikode (C)	23087	18162	901	163	930	43243
50	Kalpetta (M)	960	1159	556		70	2745
51	Kannur (M)	2065	3420	92	13	137	5727
52	Kuthuparambu (M)	927	722	324		20	1993
53	Mattannur (M)	1320	1318	247	1	32	2918
54	Payyannur (M)	3446	1287	250	22	112	5117
55	Thalassery (M)	6856	4112	249	28	277	11522
56	Thaliparambu (M)	2381	1793	1163	19	105	5461
57	Kanjhagad (M)	616	296	101		22	1035
58	Kasaragod (M)	2737	4477	142	2	158	7516
59	Kannur cantonment	1193	612	462		62	2329
	<b>TOTAL</b>	<b>181938</b>	<b>109926</b>	<b>59577</b>	<b>1158</b>	<b>5617</b>	<b>358216</b>

Table – 21 - Live birth by religion in Kerala (district wise) – 2002

Districts	Urban/ Rural	Hindus	Muslims	Christians	Others	Religion not reported	Total births
1	2	3	4	5	6	7	8
Thiruvananthapuram	Urban	4683	1322	3082	49	280	9416
	Rural	31504	8777	9569	313	260	50423
	Total	36187	10099	12651	362	540	59839
Kollam	Urban	13786	4679	5172	130	521	24288
	Rural	11811	4546	3274	9	504	20144
	Total	25597	9225	8446	139	1025	44432
Pathanamthitta	Urban	5208	1156	3224	33	210	9831
	Rural	5484	593	3919	77	127	10200
	Total	10692	1749	7143	110	337	20031
Alappuzha	Urban	1288	256	1198	21	30	2793
	Rural	16570	3816	5363	124	500	26373
	Total	17858	4072	6561	145	530	29166
Kottayam	Urban	9255	3634	12085	146	290	25410
	Rural	5249	575	3699	8	102	9633
	Total	14504	4209	15784	154	392	35043
Idukki	Urban	5537	573	5095	43	172	11420
	Rural	2333	986	2802	7	37	6165
	Total	7870	1559	7897	50	209	17585
Eranakulam	Urban	3055	1028	4574	9	86	8752
	Rural	21124	9470	17425	107	391	48517
	Total	24179	10498	21999	116	477	57269
Thrissur	Urban	7464	5203	3336	15	171	16189
	Rural	17500	6170	7992	64	494	32220
	Total	24964	11373	11328	79	665	48409
Palakkad	Urban	9825	5679	720	49	302	16575
	Rural	14532	7785	510	109	676	23612
	Total	24357	13464	1230	158	978	40187
Malappuram	Urban	7971	38700	835	115	1869	49490
	Rural	8850	27341	488	85	535	37299
	Total	16821	66041	1323	200	2404	86789
Kozhikode	Urban	3703	10312	1247	5	360	15627
	Rural	24480	20671	950	170	996	47267
	Total	28183	30983	2197	175	1356	62894
Wayanad	Urban	5165	4028	2419	8	275	11895
	Rural	960	1159	556		70	2745
	Total	6125	5187	2975	8	345	14640
Kannur	Urban	5363	3814	2778	27	121	12103
	Rural	18188	13264	2787	83	745	35067
	Total	23551	17078	5565	110	866	47170
Kasaragod	Urban	4273	5075	487	12	73	9920
	Rural	3353	4773	243	2	180	8551
	Total	7626	9848	730	14	253	18471
<b>State</b>	<b>Total</b>	<b>268514</b>	<b>195385</b>	<b>105829</b>	<b>1820</b>	<b>10377</b>	<b>581925</b>

**Table 22 - Month wise distribution of live births in Kerala 2002 (rural/urban).**

Sl. No.	Month	Rural	Urban	Total
1	2	3	4	5
1	January	27545	17912	45457
2	February	18091	9862	27953
3	March	42610	24673	67283
4	April	36128	21682	57810
5	May	30753	22221	52974
6	June	34872	18996	53868
7	July	28666	21334	50000
8	August	25754	16902	42656
9	September	25045	15974	41019
10	October	27766	19116	46882
11	November	26936	18066	45002
12	December	34050	16971	51021
	<b>State</b>	<b>358216</b>	<b>223709</b>	<b>581925</b>

Table – 23 - Sex-ratio of live births in Kerala (district wise) 2002

DISTRICT	RURAL / URBAN	MALE	FEMALE	SEX-RATIO
1	2	3	4	5
Thiruvananthapuram	Rural	25502	23959	939
	Urban	4817	4454	925
	Total	30319	28413	937
Kollam	Rural	10285	9796	952
	Urban	12402	11625	937
	Total	22687	21421	944
Pathanamthitta	Rural	5229	4837	925
	Urban	4365	4135	947
	Total	9594	8972	935
Alappuzha	Rural	13315	12599	946
	Urban	1384	1318	952
	Total	14699	13917	947
Kottayam	Rural	4863	4666	959
	Urban	12786	12271	960
	Total	17649	16937	960
Idukki	Rural	2927	2887	986
	Urban	5678	5456	961
	Total	8605	8343	970
Eranakulam	Rural	24772	23143	934
	Urban	4307	4297	998
	Total	29079	27440	944
Thrissur	Rural	16620	15130	910
	Urban	8262	7754	939
	Total	24882	22884	920
Palakkad	Rural	12274	11211	913
	Urban	8477	7943	937
	Total	20751	19154	923
Malappuram	Rural	18782	18223	970
	Urban	24680	23496	952
	Total	43462	41719	960
Kozhikode	Rural	24409	22788	934
	Urban	7855	7438	947
	Total	32264	30226	937
Wayanad	Rural	1357	1322	974
	Urban	5956	5839	980
	Total	7313	7161	979
Kannur	Rural	17928	16853	940
	Urban	6004	5896	982
	Total	23932	22749	951
Kasaragod	Rural	4329	4158	960
	Urban	5040	4748	942
	Total	9369	8906	951
<b>Total</b>		<b>294605</b>	<b>278242</b>	<b>944</b>

**Table 24 - Month wise distribution of deaths in Kerala. (rural / urban).**

Sl. No.	Month	Rural	Urban	Total
1	January	10737	5025	15762
2	February	3661	3518	7179
3	March	11971	5922	17893
4	April	10407	4726	15133
5	May	9859	5548	15407
6	June	9874	5058	14932
7	July	12151	5240	17391
8	August	11466	4813	16279
9	September	11393	4860	16253
10	October	10942	4885	15827
11	November	10199	5580	15779
12	December	10706	6056	16762
	<b>STATE</b>	<b>123366</b>	<b>61231</b>	<b>184597</b>

**Table 25 - Death by age and sex in Kerala - 2002**

Sl. No	Age Group	Rural				Urban			
		Male	Female	Sex not reported	Total	Male	Female	Sex not reported	Total
1	2	3	4	5	6	7	8	9	10
1	Below 1	303	241	68	612	1486	981	144	2611
2	1 to 4 Yrs	387	322	88	797	517	458	86	1061
3	5 to 14 Yrs	574	359	74	1007	528	396	63	987
4	15 to 24 Yrs	1244	743	136	2123	941	722	80	1743
5	25 to 34 Yrs	2209	1048	209	3466	1492	826	100	2418
6	35 to 44 Yrs	3835	1734	343	5912	2575	1141	144	3860
7	45 to 54 Yrs	7204	2612	640	10456	4907	1802	241	6950
8	55 to 64 Yrs	10650	4682	992	16324	6421	2897	334	9652
9	65 to 69 Yrs	7808	4581	763	13152	4324	2423	267	7014
10	70 and Above	32576	30670	3850	67096	12288	9786	969	23043
11	Age Not Reported	1012	728	681	2421	897	561	434	1892
	<b>Total</b>	<b>67802</b>	<b>47720</b>	<b>7844</b>	<b>123366</b>	<b>36376</b>	<b>21993</b>	<b>2862</b>	<b>61231</b>

Sl. No	Age Group	Total			
		Male	Female	Sex not reported	Total
1	2	11	12	13	14
1	Below 1	1789	1222	212	3223
2	1 to 4 Yrs	904	780	174	1858
3	5 to 14 Yrs	1102	755	137	1994
4	15 to 24 Yrs	2185	1465	216	3866
5	25 to 34 Yrs	3701	1874	309	5884
6	35 to 44 Yrs	6410	2875	487	9772
7	45 to 54 Yrs	12111	4414	881	17406
8	55 to 64 Yrs	17071	7579	1326	25976
9	65 to 69 Yrs	12132	7004	1030	20166
10	70 and Above	44864	40456	4819	90139
11	Age Not Reported	1909	1289	1115	4313
	<b>Total</b>	<b>104178</b>	<b>69713</b>	<b>10706</b>	<b>184597</b>

Table 26 - Death by religion in Kerala (district wise)

DISTRICT	Urban / Rural	Hindus	Muslims	Christian	Others	Religion not reported	Total
1	2	3	4	5	6	7	8
Thiruvananthapuram	Urban	6351	742	2189	31	129	9442
	Rural	7030	1062	1655	34	429	10210
	Total	13381	1804	3844	65	558	19652
Kollam	Urban	7657	1205	1838	8	111	10819
	Rural	2485	478	591	8	54	3616
	Total	10142	1683	2429	16	165	14435
Pathanamthitta	Urban	3728	146	2782	4	44	6704
	Rural	939	90	850	13	26	1918
	Total	4667	236	3632	17	70	8622
Alappuzha	Urban	6153	408	1924	22	54	8561
	Rural	3220	452	927	8	70	4677
	Total	9373	860	2851	30	124	13238
Kottayam	Urban	5700	355	5630	40	100	11825
	Rural	826	50	639	2	22	1539
	Total	6526	405	6269	42	122	13364
Idukki	Urban	2035	196	1727	12	59	4029
	Rural	233	80	276	1	5	595
	Total	2268	276	2003	13	64	4624
Eranakulam	Urban	5087	909	4076	13	68	10153
	Rural	4837	1144	3171	8	111	9271
	Total	9924	2053	7247	21	179	19424
Thrissur	Urban	8866	1806	2922	10	110	13714
	Rural	4425	979	1487	20	180	7091
	Total	13291	2785	4409	30	290	20805
Palakkad	Urban	8321	1812	485	19	97	10734
	Rural	2444	451	95		48	3038
	Total	10765	2263	580	19	145	13772
Malappuram	Urban	3898	6500	327	5	93	10823
	Rural	1229	2188	57	4	36	3514
	Total	5127	8688	384	9	129	14337
Kozhikode	Urban	5789	2480	478	2	53	8802
	Rural	6053	3418	391	10	130	10002
	Total	11842	5898	869	12	183	18804
Wayanad	Urban	1810	665	744	4	30	3253
	Rural	117	81	46		5	249
	Total	1927	746	790	4	35	3502
Kannur	Urban	6805	1826	1135	16	47	9829
	Rural	3035	1086	232	2	66	4421
	Total	9840	2912	1367	18	113	14250
Kasaragod	Urban	3176	1194	278	6	24	4678
	Rural	725	301	55		9	1090
	Total	3901	1495	333	6	33	5768
<b>Total -</b>		<b>112974</b>	<b>32104</b>	<b>37007</b>	<b>302</b>	<b>2210</b>	<b>184597</b>



Table 27 - Distribution of death due to some specified diseases

Sl. No	Cause of Death	Urban				Rural				Total			
		Male	Female	Sex NR	Total	Male	Female	Sex NR	Total	Male	Female	Sex NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Cholera	3	1		4	7	3	1	11	10	4	1	15
2	Typhoid	4	4		8	13	13	5	31	17	17	5	39
3	Food poisoning	5	8	1	14	18	9		27	23	17	1	41
4	Dysentery	7			7	12	15	1	28	19	15	1	35
5	Tuberculosis	152	39	8	199	702	217	64	983	854	256	72	1182
6	Leprosy	8	3	2	13	5	4	3	12	13	7	5	25
7	Diphtheria		1		1	2			2	2	1	0	3
8	Whooping cough	1	1		2	4	3	1	8	5	4	1	10
9	Tetanus	4			4	4	3		7	8	3	0	11
10	Poliomyelitis	2	1		3	1			1	3	1	0	4
11	Measles	4	1		5	5	2		7	9	3	0	12
12	Rabies	3	6		9	37	19	3	59	40	25	3	68
13	Malaria	5			5	11	2		13	16	2	0	18
14	Cancer	1286	710	89	2085	5833	3405	582	9820	7119	4115	671	11905
15	Diabetes	662	528	41	1231	1293	1310	150	2753	1955	1838	191	3984
16	Anemia's	21	16		37	45	41	4	90	66	57	4	127
17	Meningitis	36	33	1	70	40	34	4	78	76	67	5	148
18	Heart attack	7761	3660	420	11841	15190	6857	1390	23437	22951	10517	1810	35278
19	Pneumonia	131	44	3	178	154	125	24	303	285	169	27	481
20	Influenza	4			4	32	26	1	59	36	26	1	63
21	Asthma	1123	798	101	2022	7102	5376	834	13312	8225	6174	935	15334
22	Jaundice	56	28	6	90	244	117	22	383	300	145	28	473
23	Liver diseases	164	48	3	215	184	75	10	269	348	123	13	484
24	Ulcer	38	18	1	57	217	125	32	374	255	143	33	431
25	Appendicitis	3			3	5	4		9	8	4	0	12
26	Syphilis and genitourinary Diseases	5			5	9	5		14	14	5	0	19
27	Abortion				0				0	0	0	0	0
28	Pregnancy child birth pauperism etc		11		11		10		10	0	21	0	21
29	Birth injuries	15	10	1	26	7	1	2	10	22	11	3	36

Table 27 contd.

Sl. No	Cause of Death	Urban				Rural				Total			
		Male	Fe-male	Sex NR	Total	Male	Fe-male	Sex NR	Total	Male	Fe-male	Sex NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
30	Paralysis	208	206	18	432	2010	2271	235	4516	2218	2477	253	4948
31	Senility	345	388	56	789	1577	2074	272	3923	1922	2462	328	4712
32	Others	18797	11390	1521	31708	20333	15298	2574	38205	39130	26688	4095	69913
33	Venomous Animals Bites/Strings	17	18	1	36	77	24	3	104	94	42	4	140
34	Burns (Accidental)	69	143	22	234	47	26	1	74	116	169	23	308
35	Drowning, Falls	32	10	1	43	162	93	25	280	194	103	26	323
36	Poisoning	502	163	37	702	919	282	88	1289	1421	445	125	1991
37	Accident (Traffic/Vehicles)	496	119	34	649	586	127	39	752	1082	246	73	1401
38	Other Accidents	251	94	30	375	329	119	38	486	580	213	68	861
39	Suicide	506	153	37	696	2140	666	207	3013	2646	819	244	3709
40	Homicide	21	4	3	28	25	10	4	39	46	14	7	67
41	AIDS	19	5	1	25	84	36	4	124	103	41	5	149
42	Old Age	1800	2126	239	4165	5008	5994	766	11768	6808	8120	1005	15933
43	Hysteria	14	5		19	19	11	4	34	33	16	4	53
44	Premature	95	67		162	27	23	3	53	122	90	3	215
45	Blood Pressure	131	174	30	335	1153	1412	151	2716	1284	1586	181	3051
46	Kidney trouble	157	124	13	294	706	369	57	1132	863	493	70	1426
47	Not stated	1413	835	142	2390	1424	1084	240	2748	2837	1919	382	5138
	Total	67802	47720	7844	123366	36376	21993	2862	61231	104178	69713	10706	184597

Table 28 - Infant death by sex in Kerala - 2002 (district wise)

District	Urban / Rural	Infant Death			Total
		Male	Female	Sex not reported	
1	2	3	4	5	6
Thiruvananthapuram	Urban	16	14	4	34
	Rural	216	153	41	410
	Total	232	167	45	444
Kollam	Urban	13	14	3	30
	Rural	41	28	7	76
	Total	54	42	10	106
Pathanamthitta	Urban	8	2		10
	Rural	10	15		25
	Total	18	17		35
Alappuzha	Urban	3	5		8
	Rural	102	44	1	147
	Total	105	49	1	155
Kottayam	Urban	25	11	3	39
	Rural	4	2	5	11
	Total	29	13	8	50
Idukki	Urban	19	22	5	46
	Rural	8	3	1	12
	Total	27	25	6	58
Eranakulam	Urban	41	24	10	75
	Rural	170	131	18	319
	Total	211	155	28	394
Thrissur	Urban	56	45	8	109
	Rural	257	172	37	466
	Total	313	217	45	575
Palakkad	Urban	1	3	1	5
	Rural	45	20	8	73
	Total	46	23	9	78
Malappuram	Urban	22	12	6	40
	Rural	88	55	7	150
	Total	110	67	13	190
Kozhikode	Urban	16	23	4	43
	Rural	437	293	4	734
	Total	453	316	8	777
Wayanad	Urban	24	25	13	62
	Rural	4	8	2	14
	Total	28	33	15	76
Kannur	Urban	48	31	10	89
	Rural	93	54	12	159
	Total	141	85	22	248
Kasaragod	Urban	11	10	1	22
	Rural	11	3	1	15
	Total	22	13	2	37
<b>State</b>		<b>1789</b>	<b>1222</b>	<b>212</b>	<b>3223</b>

Table 29 - Infant deaths by age and sex in Kerala – 2002

Age/Sex	Rural				Urban				Total			
	Male	Female	Sex NR	Total	Male	Female	Sex NR	Total	Male	Female	Sex NR	Total
1	2	3	5	6	7	8	9	10	11	12	13	14
Under one week	175	132	39	346	978	646	98	1722	1153	778	137	2068
One week to one month	44	27	10	81	232	144	25	401	276	171	35	482
One month to below 3 months	29	19	8	56	96	68	6	170	125	87	14	226
3 months to below 6 months	30	31	5	66	96	67	9	172	126	98	14	238
6 months to 12 months	25	32	6	63	84	56	6	146	109	88	12	209
<b>Total</b>	<b>303</b>	<b>241</b>	<b>68</b>	<b>612</b>	<b>1486</b>	<b>981</b>	<b>144</b>	<b>2611</b>	<b>1789</b>	<b>1222</b>	<b>212</b>	<b>3223</b>

Sex NR – Sex not reported

Table 30 - Maternal deaths by age– 2002

Age at death	Rural	Urban		Total per all areas
		Town with population 30000 and above	Other urban areas	
1	2	3	4	5
Below 15 years	2	1	0	3
15 to 19				0
20 to 24	4	1	0	5
25 to 29	5	6	0	11
30 to 34	9	4	0	13
35 to 39	2	4	0	6
40 to 44	2	1	0	3
45 and above	31	4	0	35
Not reported				0
<b>Total</b>	<b>55</b>	<b>21</b>	<b>0</b>	<b>76</b>

Table 31 - Time gap in registration of birth death - Kerala 2002

Sl No	District	LIVE BIRTHS							
		Within limit		Delayed Registration					
		M	F	Within 30 days		After 30 days but within one year		After one year	
1	2	3	4	5	6	7	8	9	10
1	Thiruvananthapuram	28511	26661	288	286	1393	1368	127	98
2	Kollam	21126	19935	622	573	934	901	5	12
3	Pathanamthitta	8682	8112	215	188	668	653	29	19
4	Alappuzha	13708	13026	209	193	756	680	26	18
5	Kottayam	16021	15164	269	279	993	1058	366	436
6	Idukki	8061	7778	146	150	264	271	134	144
7	Eranakulam	25686	23935	813	839	2528	2615	52	51
8	Thrissur	23793	21849	301	283	700	673	88	79
9	Palakkad	19098	17749	795	670	789	690	69	45
10	Malappuram	41254	39625	690	664	1516	1430	2	
11	Kozhikode	29584	27539	496	451	2179	2227	5	9
12	Wayanad	6889	6679	163	192	261	289		1
13	Kannur	22253	21206	694	619	981	913	4	11
14	Kasaragod	8753	8295	280	249	334	362	2	
	<b>State</b>	<b>273419</b>	<b>257553</b>	<b>5981</b>	<b>5636</b>	<b>14296</b>	<b>14130</b>	<b>909</b>	<b>923</b>

Sl No	District	DEATHS							
		Within limit		Delayed Registration					
		M	F	Within 30 days		After 30 days but within one year		After one year	
1	2	11	12	13	14	15	16	17	18
1	Thiruvananthapuram	9501	6195	592	425	852	507	174	110
2	Kollam	7084	4665	376	259	710	408	90	50
3	Pathanamthitta	4249	2871	208	138	273	166	21	16
4	Alappuzha	6351	4495	373	322	437	346	24	16
5	Kottayam	6424	4622	451	279	505	318	55	35
6	Idukki	2425	1524	86	62	86	47	53	20
7	Eranakulam	9213	5926	655	461	1167	889	117	82
8	Thrissur	10276	6902	524	357	689	463	140	87
9	Palakkad	6657	4621	432	263	630	413	58	22
10	Malappuram	7084	4933	293	217	512	331	38	18
11	Kozhikode	9451	6331	507	360	913	519	71	55
12	Wayanad	1777	1055	96	50	120	69	20	4
13	Kannur	6946	4629	419	318	504	358	36	26
14	Kasaragod	2957	1807	237	126	226	118	13	7
	<b>State</b>	<b>90395</b>	<b>60576</b>	<b>5249</b>	<b>3637</b>	<b>7624</b>	<b>4952</b>	<b>910</b>	<b>548</b>

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