



GOVERNMENT OF KERALA



**RESIDENTIAL VITAL RATES
2006**

Directorate of Economics & Statistics
Thiruvananthapuram
2008



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PREFACE

This report presents the adjusted vital rates of births and deaths of the selected Municipalities and Corporations for the year 2006. The rates have been estimated from the registered births and deaths of the normal residents after making adjustments for under registration and for the same occurring outside the Municipal/Corporation areas, using the results of spot check survey conducted in the above places. Details of twenty-nine Municipalities and five Corporations are included in this report. The vital statistics unit of the Department of Economics and Statistics has prepared the report under the supervision of Sri. D Rajan, Additional Director, Smt. Leelamony.S, Deputy Director Smt. K.Shailamma, Assistant Director and Smt. M.Kannambal, Research Assistant have contributed substantially in bringing out the report.

Thiruvananthapuram,

Date: 19 -9 - 2008.

M.R.Balakrishnan

DIRECTOR

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ANNUAL RESIDENTIAL VITAL RATES 2006

Introduction

The Civil Registration System was introduced in India under the Births and Deaths Registration Act chartered by parliament in 1969. The Act stipulates that every event should be registered in the respective registration units (local self Government) based on the place of occurrence. As per the existing rule every event should be registered within 21 days from the date of its occurrence. Even though the Act stipulates both fine and punishment, non-registration of events exists to a certain extent. In order to ward off such inaccuracies, a corrective measure is devised viz the spot-check survey. More over the Act stipulates that registration is to be done out in the place of occurrence of the event. This may not provide a true picture. The present set up of spot check survey is to tide over that.

One of the important classifications in population data is the rural-urban breakup. In Kerala the number of vital events happening in urban areas is always higher than that in the rural areas. It shows that the rate of registration of vital events in urban areas is always higher than that in the rural area. Modern health facilities are generally available in the urban areas. Rural people because of their knowledge on health activities and access to such facilities usually resort to urban areas to avail such facilities. Usually the under registration in rural areas is higher than that in urban areas especially in the case of deaths. This is because, most of the deaths in rural areas happened in the house and the people are not interested to register deaths due to the unawareness about the importance of registration. Another important fact is that both rural and urban population tends to hide incidence of suicide and illicit termination of pregnancy. Similarly there exists gross under registration of vital events such as Infant deaths and Stillbirths in the State.

Objectives of the survey

The main objectives of the survey are furnished below:

- 1 To estimate the extent of under registration of vital events in the selected Municipalities/Corporations and to work out the actual vital rates in these areas.
- 2 To estimate the residential vital rates of these Municipalities/Corporations
- 3 To find out the major diseases that lead to deaths in the selected urban areas of the state

Coverage of the survey

The scheme is designed to strengthen the Vital Statistics in the selected Municipalities and corporations. It is implemented in five Corporations and twenty-nine Municipalities in the State. The list of Municipalities / Corporations and the statistical staff working in these centres are given below:

Sl.No.	Name of Municipalities / Corporation	Statistical Staff		
		UD Compiler	Research Assistant	Total
1	Neyyattinkara (M)	1	0	1
2	Thiruvananthapuram (C)	2	1	3
3	Attingal (M)	1	0	1
4	Kollam (C)	2	1	3
5	Punalur (M)	1	0	1
6	Kayamkulam (M)	1	0	1
7	Mavelikara (M)	1	0	1
8	Alappuzha (M)	2	1	3
9	Cherthala (M)	1	0	1
10	Thiruvalla (M)	1	0	1
11	Changanassery (M)	1	0	1

12	Kottayam (M)	1	0	1
13	Pala (M)	1	0	1
14	Vaikom (M)	1	0	1
15	Muvattupuzha (M)	1	0	1
16	Kochi (C)	2	1	3
17	Aluva (M)	1	0	1
18	North Paroor (M)	1	0	1
19	Perumbavur (M)	1	0	1
20	Irinjalakuda (M)	1	0	1
21	Kodungallur (M)	1	0	1
22	Chalakydy (M)	1	0	1
23	Thrissur (C)	1	0	1
24	Guruvayur (M)	1	0	1
25	Kunnamkulam (M)	1	0	1
26	Palakkad (M)	1	0	1
27	Chittoor Thethamangalam (M)	1	0	1
28	Thirur (M)	1	0	1
29	Malappuram (M)	1	0	1
30	Kozhikode (C)	2	1	3
31	Vadakara (M)	1	0	1
32	Thalassery (M)	1	0	1
33	Kannur (M)	1	0	1
34	Kasaragod (M)	1	0	1

The fieldwork pertaining to the survey was carried out in all centers. For conducting fieldwork of the survey fifteen wards have been randomly selected from each unit except Alappuzha Municipality. 25 wards have been selected from Alappuzha Municipality. The statistical staff posted in the Municipalities/Corporations have visited all houses of the selected wards and collected the required data in the prescribed schedules.

Limitations of the survey

Since the survey is implemented only in the urban areas, extent of under registration in the rural areas cannot be estimated. This is a striking limitation of the survey. One of the main objectives of the survey is to find out the under registration of vital events. However, the data derived from the survey is partial. In order to obtain a total picture of the rate of under -registration in urban areas, the remaining urban areas of the state should also be brought under the purview of the survey. If this survey is extended to rural areas, a comparative study between urban and rural level of under registration could also be made possible. Similarly the State level under registration can be estimated only if this survey is further extended to rural areas and the remaining Municipalities of the State.

Findings of the Survey

Table 1 provides the estimated midyear population of the selected Municipalities and Corporations. It is obvious from the table that the population of all Municipalities/Corporations shows an increasing trend. Out of 34 selected centers, the highest midyear population is recorded in Thiruvananthapuram Corporation and the lowest in Curuvayur municipality. Among municipalities, the highest is in Alappuzha.

The number of Educational Institutions both in Government and private sector existing in the selected municipalities/corporations are presented in table 2. Among all centers, Thiruvananthapuram corporation has the maximum number of institutions. The total number of institutions in Thiruvananthapuram Corporation is 245. It is followed by Cochin Corporation with 239 numbers. In the case of municipalities, the highest number of institution, 82 is recorded from Thalassery municipality. More number of technical institutions are situated in Kollam Corporation.

Details of Medical Institutions and their number both in the public and private sector existing in the selected Municipalities/Corporations are presented in table 3. Number of hospitals in the private sector is higher than that in the Government sector. Among all centers, Thiruvananthapuram Corporation has the highest number of government hospitals 19, followed by Cochin Corporation with 18. In the case of Municipalities Alappuzha has the highest number of government hospitals. Considering the bed strength in government hospitals Thiruvananthapuram Corporation stood first with 7077 numbers followed by Kozhikkode Corporation with 4055. In the case of private hospitals the maximum number of hospitals is recorded in Cochin Corporation with 68 followed by Thiruvananthapuram with 53.

In the case of government dispensaries and other institutions it is the highest in Thiruvananthapuram Corporation with 21 followed by Kozhikkode Corporation with 17. Considering the strength of private dispensaries and other institutions, Alappuzha municipality stood first with 127 followed by Kozhikkode Corporation and vadakara municipality with 100 and 97 respectively.

The number of maternity and child health centers in public sector was highest in Kozhikkode Corporation with 37 followed by 13 in Cochin and 12 in Kollam Corporations. In the private sector such facilities do not exist anywhere else in the entire state except in Thiruvananthapuram, Kollam Corporations and Attingal Municipality.

In table 4 the details regarding the number of registration units, area and population of the selected centers are furnished. Thiruvananthapuram Corporation has the largest area 141.74 sq. km among the corporation followed by Thrissur Corporation with 101.42 sq. km. When municipalities are taken into consideration, Alappuzha covers the largest area 46.77 sq. km followed by Punalur municipality with 34.60 sq. km. Considering the density of population the highest is recorded in Kollam Corporation, i.e. 6559 /sq. km. followed by Kochi Corporation with 6458/sq.km. In the case of Municipality, it is the highest in Kannur with 6010/ sq. km. and lowest is in Punalur Municipality with 1380/sq km

The details regarding number of Burial Grounds and Cremation Grounds are presented in table 5. This table reveals Cochin Corporation stood first with 8 municipal burial grounds followed by Thrissur Corporation with 5. Cochin Corporation has the highest number of private burial grounds i.e. 40 followed by Kollam Corporation with 37. Vaikom and Chittoor Thathamangalam municipality have no burial grounds both in Government sector and in private sector. More number of burial groundas and cremation grounds are in the private sector than in the Government sector.

Table 6 furnishes total number of vital events and the number of vital events of the usual residents registered in their respective centers. During the year under report 38565 live births, which is seen to be the highest, is registered in Thiruvananthapuram Corporation out of which 7226 events were pertaining to the usual residents. Kozhikkode Corporation stood in the second place with 39202 live births. In the case of municipalities the highest number 14620 was recorded in Palakkad municipality and the lowest 344 in Chittoor Thathamangalam municipality.

The maximum number of stillbirths 802 was registered in Thiruvananthapuram Corporation. Kozhokkode Corporation stood in the second place with 463. No still births were reported in Attingal, Mavelikkara, Perumbavoor and Chittoor Thathamangalam municipalities.

In the case of infant deaths, the highest number 909 was recorded in Kozhikkode Corporation out of which 482 are male and 427 are female and infant death corresponds to normal residents were 264. Thiruvananthapuram Corporation stood at the second place with 743 numbers. In the case of Municipalities the highest number of infant deaths 111 was registered in Palakkad municipality. The table reveals that no infant death was registered in Neyyattinkara, Attingal, Vaikom, Muvattupuzha and Chittur-Thattamangalam municipalities during the year under report.

The number of deaths registered in Thiruvananthapuram Corporation was 13733 Which is seen to be the highest in the state followed by Kozhikkode

Corporation with 9851. In the case of municipality it was the highest in Alappuzha municipality with 2747 numbers and the lowest 166 in Guruvayoor municipality.

Death according to major causes are furnished in table 7. This table reveals that the major causes of death were respiratory disease, cancer, heart failure, and others. During the year under report 7 AIDS cases are reported of which 5 cases from Thiruvananthapuram Corporation. Only 6 Dengue/Weils diseases was reported during the year and which is from North Parur municipality. No specific causes of death have been reported from Punalur, Changanassery, Malappuram and Thalassery municipalities.

The results of spot check survey of the selected registration units presented in table 8. The data reveals that all live births except one case in Punalur municipality were registered in the respective registration units. Out of 35 infant death enumerated, 18 deaths were registered in the respective units.

In the case of deaths, about 80% of enumerated deaths were registered in the respective registration units. Only 18% of deaths were occurred outside the units. i.e., most of the cases were occurred within the station. Non registration of deaths done in Thiruvananthapuram, Kochi and Kozhikkode corporations, Neyyattinkara, Punalur, Kayamkulam, Mavelikkara, Cherthala, Changanassery, Perumbavoor, Kodungallur, Chalakkudy, Thirur, Malappuram, Vadakara and Thalassery municipalities.

Table 9 gives the percentage of under registration and the percentage of outside registration of events in the selected units. With regarding to the registration of births, cent percent registration was recorded in all most all centers except in Punalur municipality. In the case of deaths, cent percent registration was reported from 18 centers and under registration was from the remaining centers. The highest percentage of under registration of death 13.51% was reported from Punalur municipality and the lowest 0.44% in Kochi Corporation.

The table reveals that percentage of outside registration of births was highest in Chittur Thathamangalam Municipality, with 95.60% and lowest in Palakkad municipality with 4.71%. In the case of deaths, the highest percentage 54.88 was

recorded in Kottayam municipality followed by Muvattupuzha municipality with 53.13% and lowest 1.03% in Thiruvananthapuram Corporation.

The registered vital rates and Adjusted Residential vital rates in the selected Municipalities and Corporations are presented in table 10.

From the data it can be seen that highest birth rate 36.58 is recorded in Palakkad municipality followed by Thalassery Municipality with 27.13 and the lowest in Chittur Thathamangalam with 1.16. In terms of registered death rate, it is highest in Kochi Corporation (9.63) followed by Alappuzha municipality with 6.80 and the lowest in Kottayam municipality (0.30).

The table reveals that, in the case of the adjusted residential vital rates of Births, highest rate 38.40 was reported from Palakkad municipality followed by Thalassery and Muvattupuzha Municipalities with 29.60 and 29.58 respectively. The lowest rate 2.91 was reported from Kottayam municipality. As regards death, the adjusted residential vital rates was highest (10.18) in Muvattupuzha Municipality followed by Vaikom Municipality with 9.90 and the lowest 0.66 was in Kottayam municipality.

Executive Summary

The survey result reveals that under registration of birth events and death events still exists in the urban areas of the State. Hence cent percentage registration could not be achieved during the year under report also. Lack of awareness about the need and importance of registration of events may be the reasons for the same. Spot-check Survey helps to find out the unregistered events and thereby the concerned authorities can take necessary steps to minimize the extent of under registration.

Table 1 - Estimated Mid-year Population of Municipalities and Corporations from 2002 to 2006 (as on 1st July)

Sl. No.	Municipality/ Corporation	2001 Census Population	2002	2003	2004	2005	2006
1	Neyyattinkara	69467	70362	71041	71726	72418	73117
2	Thiruvananthapuram Corporation	744983	754576	761852	769198	776615	784103
3	Attingal	35693	35122	36447	36775	37106	37440
4	Koillam Corporation	361560	365047	367684	370340	373016	375711
5	Punalur	47235	47364	47461	47558	47655	47753
6	Kayamkulam	68585	63778	68923	69068	69214	69360
7	Mavelikkara	28439	23458	28472	28486	28500	28514
8	Aleppuzha	177029	177346	177584	177822	178061	178300
9	Cherthala	45105	45348	45531	45715	45900	46085
10	Thiruvalla	56837	57117	57323	57540	57752	57965
11	Changanacherry	51967	52468	52847	53229	53613	54000
12	Kottayam	60728	61311	61752	62196	62643	63093
13	Pai	22640	22858	23023	23189	23356	23524
14	Vaikom	22641	22859	23024	23190	23357	23525
15	Muvattupuzha	29246	23473	29644	29816	29989	30163
16	Kochi Corporation	595575	593835	603050	606282	609532	612733
17	Allva	24110	24420	24655	24892	25132	25374

Table 1 Contd.

Sl. No.	Municipality/ Corporation	2001 Census Population	2002	2003	2004	2005	2006
18	North Parur	30059	30338	30584	30812	31042	31273
19	Perumbavoor	26547	26838	27005	27204	27404	27606
20	Irinjalakkuda	28873	29033	29206	29350	29495	29640
21	Kodungalloor	33539	33837	34097	34339	34583	34829
22	Chalakkudy	48380	48810	49188	49538	49891	50246
23	Thrissur corpn.	317526	321101	323809	326539	329292	332069
24	Guruvayoor	21186	21319	21419	21520	21621	21723
25	Kunnamkulam	51592	52173	52613	53057	53504	53955
26	Palakkad	130767	131798	132577	133360	134148	134940
27	Chittoor- Thathamangalam	31886	32236	32607	32921	33238	33558
28	Thirur	53654	54211	54685	55133	55585	56040
29	Malappuram	58491	59777	60760	61759	62775	63807
30	Kozhikkode Corpn.	436556	438338	440557	442283	444016	445756
31	Vadakara	75847	76314	76666	77020	77375	77732
32	Thalassery	99387	100389	102207	103440	104688	105951
33	Kannur	63797	64412	64877	65345	65817	66292
34	Kasaragod	52634	52978	53237	53498	53760	54023

Table-2, Number Of Educational Institutions-2006

Sl. No	Municipality/ Corporation	Lower Primary School			Upper Primary Schools			High School/			HSSM/HSC			Colleges			Technical Institutions			Grand Total
		Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total	
1	2	3	4	5	6	7	3	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Neyyattinkara	5	7	12	4	3	7	4	7	11	4	3	7	2	2	4	1	2	3	44
2	Thiruvanthapuram	42	19	61	24	14	38	30	33	63	18	18	36	5	4	9	11	27	38	245
3	Attingal	4	2	5	2	11	3	3	4	7	3	4	7	3	3	3	2	2	2	38
4	Kollam Corpn.	7	33	40	4	12	6	10	13	24	10	12	22	1	9	10	9	45	54	166
5	Punalur	7	6	13	2	1	3	1	7	8	1	5	6	1	1	1	1	12	13	44
6	Kayamkulam	7	9	16	3	5	3	3	9	12	3	6	9	1	3	4	1	4	5	54
7	Mavelikkara	2	10	12	2	4	5	2	6	8	3	3	6	2	1	3	3	6	9	44
8	Alappuzha	8	14	22	3	3	5	4	11	15	5	6	11	2	2	2	1	1	2	58
9	Cherthala	3	1	4	1	1	2	2	2	4	2	2	4	1	1	2	1	16	17	33
10	Thiruvalla	4	15	19	4	6	0	2	9	11	6	6	6	2	2	2	2	2	2	48
11	Changanassery	7	12	19	3	7	0	2	7	9	2	6	8	5	5	5	1	1	1	52
12	Kottayam	2	17	19	3	2	5	2	12	14	2	12	14	4	4	4	2	4	6	62
13	Palai	2	3	5	3	3	3	1	4	5	1	4	5	2	2	2	1	2	3	23
14	Vaikom	3	6	9	3	5	3	3	5	8	2	3	5	1	1	2	1	1	2	32
15	Muvattupuzha	2	8	10	3	4	7	3	6	9	3	3	6	1	1	2	1	1	1	35
16	Kochi Corpn	15	55	70	6	22	8	16	14	30	9	18	27	2	8	10	2	71	74	239
17	Aluva	3	6	9	3	3	3	2	5	7	2	4	6	2	2	2	2	2	2	27

Table-2 Contd

Sl. No	Municipality/ Corporation	Primary School		Upper Primary Schools		High School/		HSSM/HSC		Colleges		Other Institutions		Grand Total						
		Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total	Govt	Pvt	Total		Govt	Pvt	Total			
																		Govt	Pvt	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
18	North Parur	5	6	12	1	1	2	9	9	11	2	6	8	1	1	2	8	8	8	43
19	Perubavur	3	7	11	1	1	1	3	3	6	3	3	6	1	1	1				25
20	Irinjalakuda	2	14	16	2	11	13	8	8	10	4	7	11	10	10	10	1	7	8	68
21	Kodugallur	3	4	7	1	1	1	2	2	4	2	2	4	1	4	5				21
22	Chalakkudy	3	2	5	1	1	1	3	1	6	1	1	2	1	1	2	4	2	6	22
23	Thrissur Corpn.	4	37	41	4	9	13	32	41	7	14	21	5	14	19	4	9	13	148	
24	Guruvayoor	1	1	1	1	1	2	2	3	1	1	2	1	1	1	1				9
25	Kunnamkulam	1	11	12	1	3	4	6	8	3	2	5	1	1	1	1	3	2	5	35
26	Palakkad	13	9	22	5	8	14	1	4	3	1	4	1	1	1	1	1	1	1	46
27	Chittur-Thathamangalam	3	2	5	3	3	6	3	8	5	1	6	1	1	1	1				26
28	Thirur	3	17	20	1	8	9	5	7	2	1	3	2	2	2	2	3	7	10	51
29	Malappuram	3	12	15	1	4	5	5	7	2	4	6	1	1	1	1	1	4	5	39
30	Kozhikode-Corpn.	22	32	54	14	24	38	20	29	9	20	29	2	4	6	6	11	16	27	183
31	Vadakara		27	27		11	11	4	7	2	2	4	1	1	1	1	3	1	4	54
32	Thalassery	4	31	35	3	12	15	3	9	6	2	8	1	10	11	4	4	4	4	82
33	Kannur	4	2	6	5	5	11	3	7	3	2	5	3	3	3	3	3	3	3	35
34	Kasaragod	6	6	12	4	4	8	1	4	2	1	3	2	2	2	2	1	1	1	30

Table 3 - Number of Hospitals and other Institutions 2006

Sl. No	Municipality/ Corporation	Govt		Private		Total		Govt		Private		Total		Govt		Private		Total	
		No	Beds	No	Beds	No	Beds	No	Beds	No	Beds	No	Beds	No	Beds	No	Beds	No	Beds
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Neyyattinkara	6	436	10	550	16	986	1	-	12	-	13	14	2	-	-	-	2	-
2	Thiruvananthapuram corpn.	19	7077	53	2130	72	9207	21	-	57	-	78	-	3	-	4	-	7	-
3	Atingal	4	85	8	350	12	435	3	-	25	-	28	-	1	-	3	100	4	100
4	Kollam corpn.	5	1545	32	1976	37	3521	11	-	90	-	101	-	12	-	5	21	17	21
5	Punalur	2	169	12	441	14	610	2	-	22	-	24	-	6	-	-	-	6	-
6	Kayamkulam	4	280	18	625	22	905	-	-	36	-	36	-	-	-	-	-	-	-
7	Mavelikkara	2	396	7	423	9	819	-	-	10	-	10	-	-	-	-	-	-	-
8	Alappuzha	8	1780	8	140	16	1920	3	-	127	-	130	-	6	-	-	-	6	-
9	Cherthala	3	302	3	493	6	795	-	-	39	10	39	10	5	-	-	-	5	-
10	Thiruvalla	3	200	6	1250	9	1450	-	-	15	-	15	-	-	-	-	-	-	-
11	Changanacherry	2	268	11	315	13	583	-	-	39	-	39	-	4	-	-	-	4	-
12	Kottayam	4	523	10	715	14	1238	-	-	-	-	-	-	-	-	-	-	-	-
13	Palai	3	341	5	495	8	836	-	-	35	-	35	-	1	-	-	-	1	-
14	Vaikom	1	275	1	52	2	327	1	24	25	-	26	24	1	-	-	-	1	-
15	Muvattupuzha	3	308	11	519	14	827	1	-	38	-	39	-	2	-	-	-	2	-
16	Kochi Corppn	18	2024	38	5550	86	7574	6	-	88	-	94	-	13	-	-	-	13	-
17	Aluva	2	237	12	840	14	1077	-	-	34	-	34	-	-	-	-	-	-	-

Table 3 (Contd....)

Sl. No.	Municipality/ Corporation	Hospitals						Dispensaries & other Institutions						Maternity & Child Health Centre					
		Govt		Private		Total		Govt		Private		Total		Govt		Private		Total	
		No.	Beds	No.	Beds	No.	Beds	No.	Beds	No.	Beds	No.	Beds	No.	Beds	No.	Beds	No.	Beds
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
18	North Parur	3	230	5	550	11	646	5		24		29		2					
19	Perumbavoor	2	246	7	602	9	730	1		30		31		6				6	
20	Irinjalakuda	2	246	6	137	7	390	2		15		17		1				1	
21	Kodungallur	2	176	6	417	8	593			32		32							
22	Chalakudy	1	144	8	545	11	862	2		27		29		3				3	
23	Thrissur. corpn.	6	1244	21	3210	27	4454	8		25		33		4				4	
24	Guruvayur	1	30	5	184	6	214							1				1	
25	Kunnamkulam	1	124	5	571	6	689	3				3		3				5	
26	Palakkad	4	739	21	612	25	1351	4		15		19		4				4	
	Chittoor-																		
27	Thathamangalam	2	128	1	10	3	138			15	6	15	6						
28	Thirur	7	199	10	350	17	549	7				7		4				4	
29	Malappuram	4	187	5	486	9	673	1		27		28							
	Kozhikode																		
30	Corp.	9	4055	37	2345	48	6198	17		100		117		37				37	
31	Vadakara	2	240	14	520	16	760	1		97		98		1				1	
32	Thalassery	1	551	17	1054	22	1507	3		14		17							
33	Kannur	2	12	29	773	31	795	1	16			1	16	1	5			1	5
34	Kasaragod	2	236	12	595	13	776	1		22		23							

Table 4- Registration units with Area and Population 2006

SL no	Municipality Corporation	No of Reg units	Area in sq\km	Area Per Reg units	Mid year population	Population per Reg units	Density per Sq km
1	2	3	4	5	6	7	8
1	Neyyattinkara	1	28.78	28.78	73117	73117	2541
2	Thiruvananthapuram	1	141.74	141.74	784103	784103	5532
3	Attingal	1	14.775	14.775	37440	37440	2534
4	Kollam Corporation	1	57.28	57.28	375711	375711	6559
5	Punalur	1	34.60	34.60	47753	47753	1380
6	Kayamkulam	1	21.79	21.79	69360	69360	3183
7	Mavelikara	1	12.65	12.65	28514	28514	2254
8	Alappuzha	1	46.77	46.77	178300	178300	3812
9	Cherthala	1	16.18	16.18	46085	46085	2848
10	Thiruvalla	1	27.52	27.52	57965	57965	2106
11	Changanacherry	1	13.50	13.50	54000	54000	4000
12	Kottayam	1	16.45	16.45	63093	63093	3835
13	Palai	1	16.06	16.06	23524	23524	1465
14	Vaikom	1	8.73	8.73	23525	23525	2695
15	Muvattupuzha	1	13.18	13.18	30133	30133	2293
16	Kochi Corporation	1	94.88	94.88	612733	612733	6458
17	Aluva	1	7.18	7.18	25374	25374	3534
18	North Parur	1	9.02	9.02	31273	31273	3467
19	Perumbavoor	1	13.61	13.61	27606	27606	2028
20	Irinjalakuda	1	11.24	11.24	29640	29640	2637
21	Kodungallur	1	17.40	17.40	34323	34323	2002
22	Chalakydy	1	25.23	25.23	50246	50246	1992
23	Thrissur Corpn	1	101.42	101.42	332069	332069	3274
24	Guruvayoor	1	7.48	7.47	21723	21723	2908
25	Kunnamkulam	1	34.18	34.18	53955	53955	1579
26	Palakkad	1	26.60	26.60	134940	134940	5073
27	Chittoor- Thathamangalam	1	14.71	14.71	33558	33558	2281
28	Thirur	1	16.55	16.55	56040	56040	3386
29	Malappuram	1	33.69	33.69	63807	63807	1894
30	Kozhikode Corpn.	1	84.28	84.28	445756	445756	5289
31	Vadakara	1	21.34	21.34	77732	77732	3643
32	Thalasserry	1	23.98	23.98	105951	105951	4418
33	Kannur	1	11.03	11.03	66292	66292	6010
34	Kasaragod	1	16.69	16.69	54023	54023	3237

Table 5 - Number of Burial Grounds, Cremation Grounds and Civil Registration Units

Sl. No	Municipality/ Corporation	Burial Grounds			Cremation Grounds			Total no. of Registration units	
		Muni/ Corp	Private	Total	Muni/ Corp.	Private	Total	No. of wards	No. of units
1	2	3	4	5	6	7	8	9	10
1	Neyyattinkara	1	4	5		3	3	41	1
2	Thiruvananthapuram Corpn	4	30	34	1	3	4	86	1
3	Atingai	1	1	2		5	5	24	1
4	Kollam Corpn	2	37	39	2		2	52	1
5	Punalur	1	20	21			0	32	1
6	Kayamkulam	1	14	15	1	2	3	38	1
7	Mavelikara	1	9	10		1	1	25	1
8	Alappuzha	3	2	5		19	19	50	1
9	Cherthala		6	6	1	4	5	28	1
10	Thiruvalla	2		2	1		1	32	1
11	Changanacherry	1	12	13		1	1	34	1
12	Kottayam	1	15	16	1	2	3	38	1
13	Palai	1	7	8	1	1	2	23	1
14	Vaikom			0	1		1	20	1
15	Muvattupuzha	1	8	9	1		1	25	1
16	Kochi Corporation	8	40	48	5	11	16	71	1
17	Aluva	1	7	8		3	3	21	1
18	North Parur	1	5	6		1	1	23	1
19	Perumbavoor	1	8	9		1	1	21	1
20	Irinjalakuda	1	5	6			0	25	1
21	Kodungallur		2	2	1	1	2	24	1
22	Chaiakudy	1	13	14			0	25	1
23	Thrissur Corpn	5	2	7	1		1	52	1
24	Guruvayoor	1	4	5	1	1	2	20	1
25	Kunnamkulam	2	11	13			0	31	1
26	Paiakkad	4	7	11	3	1	4	50	1
27	Chittoor- Thathamangalam			0	3		3	24	1
28	Thirur	2		2			0	28	1
29	Malappuram	1	10	11		1	1	24	1
30	Kozhikode Corpn	2	9	11	5	1	6	39	1
31	Vadakara	1	8	9	1		1	44	1
32	Thalasserry	1	15	16	1	11	12	50	1
33	Kannur	1	13	14	1		1	38	1
34	Kasaragod		12	12	2	1	3	32	1

Table 6 - Vital events registered during the year 2006

Sl. No	Municipality/ Corporation	Live Births										Still Births					
		Total Events			Events to normal residents							Total Events			Events to normal residents		
		Male	Female	Total	Male	%	Female	%	Total	%	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Neyyattinkara	202	181	383	93	46.04	86	47.51	179	46.74							
2	Thiruvananthapuram	19715	18850	38565	4021	20.40	3205	17.00	7226	18.74	403	399	802				
3	Attingal	658	681	1339	102	5.50	94	13.80	196	14.64							
4	Kollam Corpn	7122	6879	14001	3204	44.99	3095	44.99	6299	44.99	24	21	45	11	9	20	
5	Punalur	1783	1770	3553	256	14.36	243	13.73	499	14.04	5	6	11		1	1	
6	Kayamkulam	2456	2298	4754	442	18.00	425	18.49	867	18.24	7	7	14	3	1	4	
7	Mavelikara	1467	1371	2838	92	6.27	101	7.37	193	6.80							
8	Alappuzha	5236	5520	10756	1357	26.11	1525	27.63	2882	26.89	52	63	115	10	9	19	
9	Cherthala	1967	1883	3850	157	7.98	166	8.82	323	8.39	4	2	6	1		1	
10	Thiruvalla	2146	2041	4187	180	8.39	164	8.04	344	8.22	16	15	31	1	4	5	
11	Changanacherry	1270	1172	2442	224	17.64	242	20.65	466	19.08	3	2	5	2		2	
12	Kottayam	1747	1802	3549	58	3.32	70	3.88	128	3.61	2	6	8				
13	Palai	1510	1323	2833	68	4.50	54	4.08	122	4.31	12	9	21	2	1	3	
14	Vaikom	511	522	1033	76	14.87	83	15.90	159	15.39	1		1				
15	Muvattupuzha	1659	1598	3257	187	11.27	179	11.20	366	11.24	6	3	9				
16	Kochi Corporation	9814	9244	19058	6107	62.23	5783	62.56	11890	62.39	45	31	76	17	15	32	
17	Aluva	2388	2384	4772	61	2.55	68	2.85	129	2.70	6	5	11				

Table 6 - Contd....

Sl. No	Municipality/ Corporation	Live Births										Still Births					
		Total Events					Events to normal residents					Total Events			Events to normal residents		
		Male	Female	Total	Male	%	Female	%	Total	%	Male	Female	Total	Male	Female	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
18	North Parur	1737	1600	3337	96	5.53	88	5.50	184	5.51	7	5	12		1	1	
19	Perumbavoor	1249	1212	2461	103	3.25	83	6.85	186	7.56							
20	Irinjalakuda	638	563	1201	49	7.68	31	5.51	80	6.66		3	3				
21	Kodungallur	2709	2565	5274	103	3.80	106	4.13	209	3.96	1	1	2				
22	Guruvayour	2059	2009	4068	266	12.92	220	10.95	486	11.95	4	4	8				
23	Thrissur Corpn	6741	6513	13254	1148	17.03	1102	16.92	2250	16.98	1		1				
24	Chalakkudy	188	179	367	10	5.32	8	4.47	18	4.90		1	1				
25	Kunnamkulam	2236	2142	4378	169	7.56	206	9.62	375	8.57	7	5	12				
26	Palakkad	7224	7396	14620	2614	36.18	2332	31.53	4946	33.83	14	13	27	8	4	12	
27	Chittoor- Thathamangalam	171	173	344	18	10.53	21	12.14	39	11.34							
28	Thirur	4324	4303	8627	389	9.00	372	8.65	761	8.82	13	3	16	1		1	
29	Malappuram	3490	3528	7018	296	8.48	249	7.06	545	7.77	28	25	53				
30	Kozhikode Corporation	20050	19152	39202	3214	16.03	2914	15.22	6128	15.63	230	233	463	36	26	62	
31	Vadakara	1448	1335	2783	242	16.71	214	16.03	456	16.39	6	7	13	2	2	4	
32	Thalassery	6416	6189	12605	1452	22.63	1422	22.98	2874	22.80	35	27	62	5	3	8	
33	Kannur	3109	2945	6054	396	12.74	217	7.37	613	10.13	8	13	21		2	2	
34	Kasaragod	4432	4286	8718	471	10.63	402	9.38	873	10.01	35	25	60	4	6	10	

Table 5 - Contd.....

Sl. No	Municipality/ Corporation	Infant Death						Other Deaths					
		Total Events			Events to normal residents			Total Events			Events to normal residents		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Neyyattinkara							367	269	636	274	208	482
2	Thiruvananthapuram	414	329	743				8016	4984	12990	1812	1012	2824
3	Attingal							142	102	244	74	57	131
4	Kollam Corpn	31	28	59	14	10	24	1817	1157	3024	994	680	1674
5	Punalur	5	4	9				344	202	546	164	129	293
6	Kayamkulam	3	1	4	1		1	281	197	478	194	149	343
7	Mavelikara	5	7	12			1	473	244	720	98	63	161
8	Alappuzha	36	49	85	11	9	20	1319	1263	2582	519	674	1193
9	Cherthala	3	4	7				402	294	696	56	61	117
10	Thiruvalla	25	19	44				844	498	1342	209	173	382
11	Changana-cherry		3	3		1	1	203	140	346	101	87	188
12	Kottayam	4	5	9				373	353	731	10	9	19
13	Palai	3	3	6				285	177	462	82	54	136
14	Vaikom							154	119	273	81	61	142
15	Muvattupuzha							247	174	421	80	64	144
16	Kochi Corporation	243	146	389	94	55	149	4715	2876	7571	3596	2158	5754
17	Aluva	8	3	11				304	210	514	42	45	87

Table 6 - Contd.

Sl. No	Municipality/ Corporation	Infant Death						Other Deaths					
		Total Events			Events to normal residents			Total Events			Events to normal residents		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
18	North Parur	3	3	6	1	1	2	369	208	577	104	66	170
19	Perumbavoor	5	2	7				314	158	472	92	49	141
20	Irinjalakuda	1		1				157	102	259	62	60	122
21	Kodungallur	3	2	5	1	1	1	340	240	580	55	44	99
22	Chalakudy	10	5	15	1	1	1	343	261	604	122	146	268
23	Thrissur Corpn	78	48	126	15	10	25	1803	999	2802	849	416	1265
24	Guruvayoor							85	80	166	51	60	111
25	Kunnamkulam	16	9	25	1	1	2	324	272	596	154	177	331
26	Palakkad	54	57	111	8	4	12	1322	688	2010	382	240	622
27	Chittoor-Thathamangalam							137	112	249	105	93	198
28	Thirur	15	12	27	2	1	3	332	222	554	101	74	175
29	Malappuram	19	11	30	1	1	2	223	166	389	68	60	128
30	Kozhikode Corporation	482	427	909	152	112	264	5709	3233	8942	1276	972	2248
31	Vadakara	20	16	36	6	4	10	430	294	724	182	150	332
32	Thalassery	46	30	76	5	5	10	1121	753	1874	327	278	605
33	Kannur	39	40	79	3	3	6	408	314	722	139	132	271
34	Kasaragod	26	22	48	3	2	5	455	246	701	137	98	235

Sl.No.	Municipality/Corporation	Total Events				Total Death													
		Male	Female	Total	Male	Female	Total	%											
		3	4	5	6	8	10	7											
1	2																		
1	Neyyattinkara	367	269	636	274	208	482	74.66	77.32										
2	Thiruvananthapuram	8420	5313	13733	1812	1012	2824	21.52	19.05										
3	Attingal	142	102	244	74	57	131	52.11	55.88										
4	Kollam Corpn	1907	1185	3092	1003	690	1698	52.86	58.23										
5	Punalur	349	206	555	164	129	293	46.99	62.62										
6	Kayamkulam	284	198	482	195	149	344	68.66	75.25										
7	Mavelikara	481	251	732	98	64	162	20.37	25.50										
8	Alappuzha	1435	1312	2747	530	683	1213	36.93	52.06										
9	Cherthala	405	298	703	56	61	117	13.83	20.47										
10	Thiruvalla	869	517	1386	209	173	382	24.05	33.46										
11	Changanacherry	206	143	349	101	88	189	49.03	61.54										
12	Kottayam	382	358	740	10	9	19	2.62	2.51										
13	Palai	288	180	468	82	54	136	28.47	30.00										
14	Vaikom	154	119	273	81	61	142	52.60	51.6										
15	Muvattupuzha	247	174	421	80	64	144	32.39	36.78										
16	Kochi Corporation	5038	3022	8060	3596	2158	5754	71.38	71.41										
17	Aluva	312	213	525	42	45	87	13.46	21.13										

Sl.No.	Municipality/Corporation	Total Death										
		Total Events					Events to normal residents					
		Male	Female	Total	Male	Female	Total	%	Female	%	Total	%
1	2	3	4	5	6	7	8	9	10	11		
18	North Parur	372	211	583	105	28.2	67	31.8	172	29.5		
19	Perumbavoor	319	160	479	92	28.8	49	30.6	141	29.4		
20	Irinjalakudia	158	102	260	62	39.2	60	58.8	122	46.9		
21	Kodungallur	343	242	585	56	16.3	44	18.2	100	17.1		
22	Chalakyady	353	266	619	123	34.8	146	54.9	269	43.5		
23	Thrissur Corpn	1881	1047	2928	864	45.9	426	40.7	1290	44.1		
24	Guruvayoor	86	80	166	51	59.3	60	75.0	111	66.9		
25	Kunnamkulam	324	272	596	154	47.5	47	17.3	201	33.7		
26	Palakkad	1376	745	2121	400	29.1	248	33.3	648	30.6		
27	Chittoor-thathamangalam	137	112	249	105	76.6	93	83.0	198	79.5		
28	Thirur	347	234	581	103	29.7	75	32.1	178	30.6		
29	Malappuram	242	177	419	69	28.5	61	34.5	130	31.0		
30	Kozhikode Corporation	6191	3660	9851	1428	23.1	1084	29.6	2512	25.5		
31	Vadakara	450	310	760	188	41.8	154	49.7	342	45.0		
32	Thalassery	1167	783	1950	332	28.4	283	36.1	615	31.5		
33	Kannur	447	354	801	142	31.8	135	38.1	277	34.6		
34	Kasaragod	481	268	749	167	34.7	100	37.3	267	35.6		

Table 7 - Deaths according to causes 2006

Sl.No	Municipality/ Corporation	Suicide	Accident	Pneumonia	B.P	T.B	Aids	Diabetics	Cerebral Diseases	Dysentery & Diarrhea	Respiratory Diseases
1	Neyyattinkara										21
2	Thiruvananthapuram	82	563	542	369	55	5	329	33	8	478
3	Attingal	4	7	3		1		17			11
4	Kollam Corpn	83	117	8	80	3	1	58	3	2	212
5	Punalur										
6	Kayamkulam	3	16	5	41	1		17	19	1	39
7	Mavelikara	3	27	10	44	4		12	1		10
8	Alappuzha										
9	Cherthala	1	2		6			2		2	
10	Thiruvalla	21	48					82			
11	Changanacherry									14	
12	Kottayam										
13	Palai	9				6		31			3
14	Vaikom	18	8		7	33		2	28		
15	Muvattupuzha										
16	Kochi Corpra	65	400								614
17	Aluva				13	11		30	14		22

Table 7 Continued.....

Sl.No	Municipality/ Corporation	Suicide	Accident	Pneumonia	B.P	T.B	Aids	Diabetics	Cerebral Diseases	Dysentery & Diarrhea	Respiratory Diseases
18	North Parur										
19	Perumbavoor									2	
20	Irinjalakuda										
21	Kodungallur									1	
22	Chalakudy	13	23	5						14	21
23	Thrissur Corpn										
24	Guruvayoor	12	33		9				18		51
25	Kunnamkulam		11	2		2		18			47
26	Palakkad									5	
	Chittoor-										
27	Thathamangalam	11	4		3	3					3
28	Thirur	2	9					14		2	
29	Malappuram										
30	Kozhikode Corpn.	109	315	40	35	4	1		1	1	534
31	Vadakara										
32	Thalassery										
33	Kannur					2					
34	Kasaragod					23				24	
	Total	456	1583	615	607	148	7	612	117	76	2135

Table 7 Continued.....

Sl.No	Municipality/ Corporation	Other fever	Kidney Diseases	Cancer	Gastro Enteritis	Heart Failure	Senility	Hydrophobia a /Rabies	Denki/Wells diseases	Others	Total
1	Neyyattinkkara			7						125	153
2	Thiruvananthapuram		269		327		893	8		5827	9788
3	Attingal			25		105	1			60	244
4	Kollam Corpn	2	35	127	111	1166	183			837	3028
5	Punalur										
6	Kayamkulam		8	34	15	192	39			52	482
7	Mavelikara			21	7	502				77	728
8	Alappuzha	12		210		113		4		2408	2747
9	Cherthala			12	3	41				48	117
10	Thiruvalla	3		47		221				964	1386
11	Changanacherry										
12	Kottayam			76	44					597	731
13	Palai		3	7	1	163				240	463
14	Vaikom		6	13	6	75				79	275
15	Muvattupuzha					148				282	430
16	Kochi Corpora.		365		296					4563	6303
17	Aluva			44	17	142				232	525

Table 7 Continued.....

Sl.No	Municipality/ Corporation	Other level	Kidney Diseases	Cancer	Gastro Enteritis	Heart Failure	Senility	Hydrophobia /Rabies	Denki/Wells diseases	Others	Total
18	North Parur					308			6	211	525
19	Perumbavoor			11		251				215	479
20	Irinjalakuda			7		87	58			108	260
21	Kodungallur			21		155				409	585
22	Chalakudy			39		122				382	619
23	Thrissur Corpn					291				2637	2928
24	Guruvayoor	5		5	6	38				22	197
25	Kunnamkulam		11	27		247				128	493
26	Palakkad			69		166				1889	2129
27	Chittoor- Thathamangalam	2	1	11	2	78				126	249
28	Thirur			22		248				290	587
29	Malappuram						247				0
30	Kozhikode Corpn.		67	308	97	760	7			7201	9787
31	Vadakara			37		107				198	342
32	Thalassery										0
33	Kannur			25		335				439	801
34	Kasaragod			49						156	252
	Total	22	765	1254	932	6061	1421	19	6	30802	47639

Table 8 - Results of Spot Check Survey - 2006

Sl. No	Municipality/ Corporation	No. of wards selected	Total no. of House holds	No. of House holds visited	No. of events detected to normal residents											
					Live Births			Infant Deaths			Other deaths					
					Enumerated	Regis-tered	N.R	Enumerated	Regis-tered	N.R	Enumerated	Regis-tered	N.R	Enumerated	Regis-tered	N.R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1.	Neyyattinkara	15	6947	9159	286	29		257	3			3	150	120	1	29
2.	Thiruvananthapuram	15	4758	22877	842	771		71					290	282	5	3
3.	Attingal	15	7275	7275	199	84		115					131	79		52
4.	Kollam Corpn	15	74652	18684	774	654		90	1	1			319	266		53
5.	Punalur	15	5943	5940	230	164	1	65					133	96	15	22
6.	Kayamkulam	15	6023	6028	293	198		95	1	1			125	75	8	42
7.	Mavelikkara	15	4063	4068	102	63		39					105	87	4	14
8.	Alappuzha	15	10163	10163	808	690		118	1	1			378	325		53
9.	Cherthala	15	10147	10147	97	66		31					57	46	1	10
10.	Thiruvalla	15	6023	6028	130	101		29					101	88		13
11.	Changanassery	15	7334	5303	216	105		111					94	49	2	43
12.	Kottayam	15	5325	5320	132	92		40					52	37		45
13.	Palai	15	6713	3144	140	67		73	1			1	79	59		20
14.	Vaikom	15	6693	5090	137	62		75					103	63		40
15.	Muvattupuzha	15	4573	4570	256	105		151					96	45		51
16.	Kochi Corporation	15	19700	19700	592	497		95					230	224	1	5
17.	Aluva	15	4685	4686	187	129		58					130	87		43

Table 8 (Contd.....)

Sl. No.	Municipality/ Corporation	No. of wards selected	Total no. of House holds	No. of House holds visited	No. of events detected to normal residents											
					Live Births			Occurred outside			Infant Deaths			Other deaths		
					Enume rated	Regi-stered	N R	Occurred outside	Enume rated	Regi-stered	N R	occurred outside	Enume rated	Regi-stered	N R	occurred outside
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18.	North Parur	15	4652	4652	187	106		78					115	96		19
19.	Perumbavoor	15	4542	4542	235	90		145					107	54	1	22
20.	Irinjalakuda	15	6179	4162	148	24		124					75	51		24
21.	Kodungallur	15	5003	5003	205	146		63	1	1			100	92	1	7
22.	Chalakudy	15	7021	6093	308	206		99	3	1		2	139	114	2	23
23.	Thrissur Corpn*	6	5249	8832	237	266		77	2	2			163	149		14
24.	Guruvayoor	15	5571	3571	165	12		157					76	41		35
25.	Kunnamkulam	15	5161	5941	291	166		126	1			1	217	180		37
26.	Palakkad	15	5715	8676	255	246		12	10	8		2	99	91		8
27.	Chittoor- Thathamangalam	15	4635	4635	182	8		174					109	83		21
28.	Thirur	15	5413	5413	555	40		148	2		1	1	102	74	1	27
29.	Malappuram	15	6890	9006	545	491		55	3		1	2	133	114	5	14
30.	Kozhikode Corpn.	15	3809	15710	988	908		80	3	3			409	366	24	19
31.	Vadakara	15	4372	4972	276	10		175	6			6	108	79	3	26
32.	Thalassery	15	4419	2618	324	29		27					153	128	1	24
33.	Kannur	15	5308	5008	228	126		106					73	55		18
34.	Kasaragod	15	4269	4539	83	62		21					33	32		1

* Include results of six wards only

Table 9 - Under Registration and Occurrence of outside events

Sl. No	Municipality/ Corporation	% Of under registration		% of outside registration	
		Births	Deaths	Births	Deaths
1	2	3	4	5	6
1	Neyyattinkara		0.83	84.86	20.92
2	Thiruvananthapuram		1.74	8.43	1.03
3	Attingal			57.79	39.69
4	Kollam Corpn			12.10	16.56
5	Punalur	0.61	13.51	28.26	16.54
6	Kayamkulam		9.52	32.42	33.33
7	Mavelikara		4.40	38.24	13.33
8	Alappuzha			14.60	13.98
9	Cherthala		2.12	31.95	17.54
10	Thiruvalla			22.31	12.87
11	Changanacherry		3.92	51.39	45.74
12	Kottayam			30.30	54.88
13	Palai			52.14	26.25
14	Vaikom			55.00	39.00
15	Muvattupuzha			50.00	50.10
16	Kochi Corporation		0.44	16.04	3.17
17	Aluva			31.02	36.92
18	North Parur			41.71	16.352
19	Perumbavoor		1.18	61.70	20.56
20	Irinjalakuda			83.78	32.00
21	Kodungallur		1.07	30.14	7.00
22	Chalakydy		1.71	32.14	17.61
23	Thrissur Corpn			22.85	8.59
24	Guruvayoor			92.90	46.05
25	Kunnamkulam			43.99	17.43
26	Palakkad			4.71	9.17
27	Chittoor- Thathamangalam			95.60	19.26
28	Thirur		2.63	26.67	26.62
29	Malappuram		5.00	10.09	11.76
30	Kozhikode Corpn		6.15	8.10	4.65
31	Vadakara		2.77	63.40	24.07
32	Thalasserry		0.78	8.33	15.69
33	Kannur			46.49	24.66
34	Kasaragod			25.30	3.00

Table 10 - Registered Vital Rates and Adjusted Residential Vital rates 2006

Sl. No.	Municipality/ Corporation	Registered vital rates		Adjusted residential vital rates	
		Births	Deaths	Births	Deaths
1	2	3	4	5	6
1	Neyyattinkara	2.45	6.59	24.16	8.40
2	Thiruvananthapuram	9.21	3.60	10.05	3.70
3	Attingal	5.24	3.50	12.41	5.80
4	Kollam Corpn.	16.77	4.52	19.08	5.42
5	Punalur	9.82	6.14	13.77	8.49
6	Kayamkulam	12.50	4.95	18.50	8.20
7	Mavelikara	6.77	5.68	10.96	6.85
8	Aiappuzha	16.22	6.60	16.99	7.90
9	Cherthala	7.00	2.53	10.28	3.12
10	Thiruvalla	5.93	6.59	7.63	7.56
11	Changanacherry	8.63	3.50	17.75	6.71
12	Kottayam	2.63	0.30	2.91	0.66
13	Palai	5.18	5.78	10.82	7.83
14	Vaikom	6.76	6.04	15.02	9.90
15	Muvattupuzha	12.13	4.77	29.58	10.16
16	Kochi Corporation	19.41	9.63	23.12	9.88
17	Aluva	5.08	3.42	7.36	5.42
18	North Parur	5.90	5.50	10.12	6.60
19	Perumbavoor	6.74	5.11	17.60	6.51
20	Irinjalakuda	2.69	4.11	16.56	6.04
21	Kodungallur	6.00	2.87	8.50	3.12
22	Chalakkudy	9.67	5.35	14.25	6.50
23	Thrissur Corpn.	6.70	3.80	8.68	4.16
24	Guruvayoor	0.82	5.10	11.54	9.50
25	Kunnamkulam	6.95	6.17	12.41	7.47
26	Palakkad	36.58	4.80	38.40	5.28
27	Chittoor-Thathamangalam	1.16	5.90	26.36	7.30
28	Thirur	13.58	3.18	18.52	4.46
29	Malappuram	8.54	2.03	9.50	2.43
30	Kozhikkode Corpn.	13.69	5.61	14.90	6.27
31	Vadakara	5.87	4.40	16.04	5.95
32	Thalassery	27.13	5.80	29.60	6.88
33	Kannur	10.75	4.17	20.08	5.53
34	Kasaragod	16.16	4.42	21.60	4.55

APPENDIX

Method of calculation of adjusted residential vital rates

Residential vital rates can broadly be defined as the rate of occurrence of vital events among the normal residents of an area in a year. In order to calculate the percentage of under registration, the events occurring among persons coming to the town/city to avail themselves of better medical facilities are excluded and those of normal residents who are going outside the town are included.

1. Percentage of under registration	$\frac{\text{Number of events occurred to normal residents inside the town but not registered} \times 100}{\text{Number of events occurred among normal residents inside the town registered and not registered}}$
2. Percentage of events occurred outside the town to normal residents	$\frac{\text{Number of events occurred among normal residents outside the town registered and unregistered} \times 100}{\text{Number of events enumerated and occurred among normal residents inside and outside the town}}$
3. Registered birth/death rate to normal residents	$\frac{\text{Total no of birth/death occurred to normal residents and registered in the town} \times 1000}{\text{Mid year population of the town}}$
4. Residential birth/death rate to normal residents occurred inside the town (weighted for under registration)	$\frac{\text{Registered birth/death rate} \times 100}{(100 - \text{percentage of under registration})}$
5. Adjusted Residential birth/death rate (weighted for outside events)	$\frac{\text{Residential birth/death rate to normal residents occurred inside the town (weighted for under registration)} \times 100}{(100 - \text{Percentage of events occurred outside the town to normal residents})}$



1220
~~920(11)~~
S32

