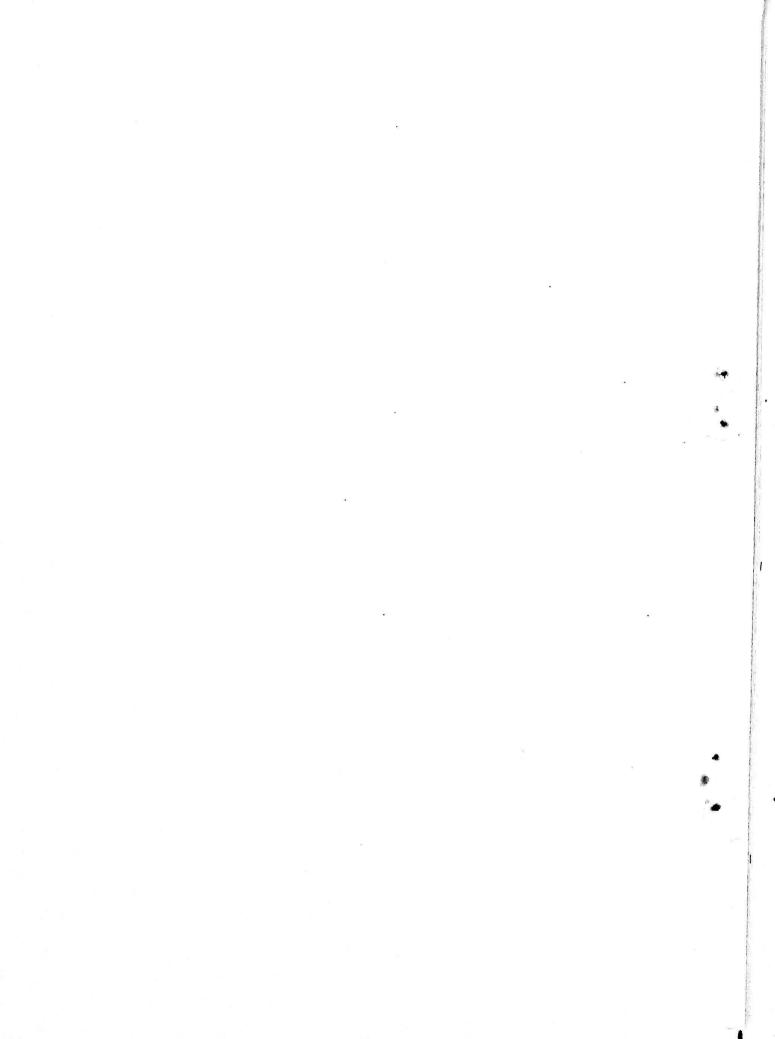


GOVERNMENT OF KERALA



RESIDENTIAL VITAL RATES 2003

Directorate of Economics & Statistics
Thiruvananthapuram
2006



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가지스러워 하여 게임요 없지 않는 것들다.

(81°)

PREFACE

This report presents the adjusted vital rates of births and deaths in the selected Municipalities and Corporations for the year 2003. 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 in the selected Municipalities and Corporations. Details of twenty-nine Municipalities and four Corporations are included in this report. Since the study has not been started in Thrissur Corporation, it's data is not 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 and Sri. Roy Thomas, Assistant Director and Smt. M.Kannambal, Research Assistant have contributed substantially in bringing out the report.

Thiruvananthapuram,

Date: 20.12.2006

M.R.Bala Krishnan DIRECTOR

마르크로 (1985년 - 1985년 -- 1985년 - 1985 - 1985년 - 198 Ø

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RESIDENTIAL VITAL RATES 2003

Introduction

The Civil Registration System was introduced in India under the Births and Deaths Registration Act charted by parliament in 1969. The Act stipulates that every event should be registered in the respective registration units based on the place where the events occurred. 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, under registration of events exists to a certain extent. This causes inaccuracy in the total data available. In order to ward off such inaccuracies, a corrective measure is devised, the spot check survey. More over the act stipulates that registration is to be carried out in the place of occurrence of the event. This may not provide a true disaggregate 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 area is always higher than that in the rural area. Health facilities of higher order 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 the modern medical facilities. Usually the under registration in rural areas is higher than that in urban area 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 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 due to sociological reasons. Similarly, there exists gross under registration of vital events such as Infant deaths and Still births in the State.

Objectives of the survey

- 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 fieldwork pertaining to the survey was carried out in all centers except Thrissur Corporation. For conducting fieldwork of the survey fifteen wards have been randomly selected from each unit except Alappuzha Municipality. 25 wards have been selected from Alapuzha 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

The most striking limitation of the survey is that the wards covered are a few and far between. 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

This table 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 higher midyear population is recorded in Thiruvananthapuram Corporation, and the lowest in Guruvayur municipality. Among municipalities, it is the highest in Alappuzha.

Table2

This table presents the number of Educational Institutions both in the government and private sector existing in theses municipalities/corporations. Among all that centers, Thiruvananthapuram corporation has the maximum number of institutions in almost all categories namely, primary, upper primary, high schools, colleges etc. The total number of institutions in Thiruvananthapuram Corporation is 231. It is followed by Kozhikkode Corporation with 180 numbers.. In the case of municipalities, the maximum number of institution 55 is in Vadakara muncipality followed by Alappuzha municipality with 53 numbers.

Table 3

This table shows the number of hospitals and other facilities both in the public and private sector existing in these Municipalities/Corporations. Number of hospitals is higher in the private sector than in the Government sector. All centers have at least one government hospital. Among all centers, Thiruvananthapuram Corporation has the highest number of government hospitals, nineteen followed by Cochin Corporation with eighteen. 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 4072. The number of private hospitals is the maximum in Cochin Corporation with 76 followed by Thiruvananthapuram and Kozhikkode with 47 and 37 numbers respectively.

In the case of government dispensaries and other institutions it is the maximum in Thiruvananthapuram Corporation i.e. twenty-one followed by Kozhikkode Corporation with sixteen. In the case of private dispensaries and other institutions, it is the maximum in Alappuzha with 127 followed by Kozhikkode Corporation and vadakara municipality with 99 and 97 numbers respectively.

The number of maternity and child health centers in public sector stands at 24 in Kozhikkode Corporation followed by 14 numbers in Cochin Corporation. Among all centers 6 centers have got one maternal and child health center each. In the private sector such facilities do not exist anywhere else in the entire state except in Thiruvananthapuram Corporation..

Table 4

This table furnishes the details regarding the number of registration units, area and population of the selected centers. Based on the area-wise classification, Thiruvananthapuram Corporation is the largest among them with 141. 71sq.km followed by Kochi Corporation with an area of 94.88 sq.km. Among Municipalities, it is Alappuzha that covers the largest area 46.77 sq.km. followed by Punalur with 34.60 sq.km. Considering the density of population the highest is recorded in Kollam Corporation,i.e. 6419 people / sq.km. followed by Kochi Corporation with 6356 people/ sq.km. In the case of Municipality, it is the highest in Kannur with 5882/ sq.km.and lowest is in Punalur Municipality with 1372/sq.km.

Table 5

This table presents the number of burial grounds and cremation grounds in the selected centres. Regarding the municipal burial grounds, it is the maximum in Cochin Corporation with 8 followed by Palakkad Municipality and Thiruvananthapuram Corporation with 4 each. There are Private burial grounds in all centers. The number of private burial grounds is higher than the municipal burial grounds in almost all centres. The Cochin Corporation has the maximum number of private burial grounds, i.e. 40 followed by Kollom Corporation with 37.

Table 6

This table shows the total number of vital events registered in the respective Municipality/Corporation and, the number of vital events of the usual residents registered in their respective registration units. The maximum number of Live births 39258 was registered in Kozhikkode Corporation of which 6270 events were pertaining to the usual residents. Thiruvananthapuram Corporation stood in the second place with 38286 live births. In the case of Municipalities, it was the maximum in Palakkad Municipality with 13331 followed by Alappuzha municipality with 11881. The lowest number of live births, 200 was registered in Chittoor Municipality of which the events related to usual residents were seven only.

The maximum number of stillbirths 651 was registered in Kozhikkode Corporation of which 253 events pertained to the events of usual residents, Thiruvananthapuram Corporation stood in the second place with 226.

In the case of infant deaths, the highest registration was recorded in Kozhikkode Corporation with 830. The male and female breakup stood at 467 and 363 respectively. Of this, Infant deaths in respect of normal residents were 249. The Thiruvananthapuram Corporation stood at the second place with 450 numbers. In the case of Municipalities, infant deaths was registered highest in Alappuzha with 160 numbers and it followed by Palakkad Municipality with 123. Infant death was not registered in Attingal, Vaikom, and Chittoor-Thathamangalam Municipalities during the year under survey.

The number of deaths registered during the year under report was the highest in Kozhikkode corporation with 9311, followed by Thiruvananthapuram Corporation with 8950.In the case of Municipalities, it was the highest in Alappuzha with 2632 of which that relates to usual residents was 1106. Next it was Thalasserry municipality with 1873 numbers. The lowest number of deaths 139 were registered in Guruvayoor Municipality followed by Attingal with 197 numbers.

Table No.7

The survey results reveals that the major causes of death were respiratory diseases, cancer, heart failure, pulmonary diseases, tuberculosis and others. The highest incidence of death 9311 was registered at Kozikkode Corporation of which

1483(15.93%) deaths were due to Heart failure, 838(9.00%) due to cancer, 463(4.96%) due to tuberculosis 398(4.27%) due to Accident, 278(2.99%) due to Diabetics and the remaining were due to other diseases or causes. Deaths due to AIDS have been reported from Kozhikkode and Cochin Corporation and North Paravur Municipality. No specific cause of death has been reported from 6 Municipalities, Thiruvananthapuram and Kollam Corporations

Table No.8

This table presents the results of the spot check survey of these selected registration units. The data shows that all live birth events were registered in the respective registration units. Infant deaths were enumerated by the staff concerned in the municipalities of Neyyattinkara Thiruvannanthapuram, Kollam, Kayamkulam, Mavelikkara Alappuzha, Cherthala ,Changanassery,Perumbavur, Chalakudy,Guruvayur, Kunnamkulam, Palakkad, Tirur, Malappuram, Vadakara, Kannur and Kasaraagod.All infants deaths were either registered in these respective Muncipalities or occurred outside.

In the case of deaths, all enumerated deaths had been registered in all centers except Thiruvananthapuram and Kozhikkode corporations, Punalur, Kayamkulam, Alappuzha, Cherthala, Changanasserry, Muvattupuzha, Chalakkudy, Guruvayur, Vadakara and Kannur Municipalities. The percentage of under registration in these Municipalities are shown in table 9. As such, the survey result shows that out of the deaths, death enumeration occurred inside area were higher in most of the centers except in Kottayam municipality.

Table 9

This table presents the percentage of under registration and the percentage of outside events in the selected units. As for the registration of births, cent percent registration was done. As regards deaths, cent percent death registration was reported from twenty centers while under registration of events reported from the remaining centers. The highest under registration 17.14% was reported from Kayamkulam followed by Guruvayoor municipality with 14.5%. The Survey conducted during 2002 also revealed under registration of vital events in these municipalities. Special awareness camps may be conducted by the Municipalities to increase the level of registration of vital events

The percentage of outside events of births has been the highest in Chittur Thathamangalam Municipality with 93.45%. And lowest in Thiruvananthapuram Corporation with 3.75%. In the case of deaths, outside events that occurred have been the highest in Kottayam Municipality with 67.95 % followed by Aluva with 41.46% and outside events that occurred have been the lowest in Thiruvanthapuram Corporation with 0.71%.

Table No.10

This table shows that the registered vital rates and Adjusted Residential vital rates in the Municipalities/Corporations.

The registered birth rate is the highest in Thalassery municipality with 32.48% followed by Cochiin Corporation with 20.32%. At the same time, it is the lowest in Chittur Thathamangalam Municipality with 0.21%. As regards registered death rates, it is highest in Kochin Corporation with 7.60% followed by Vaikom Municipality with 6.82% and the same have been the lowest in Kottayam Municipality with 0.97%.

Adjusted residential vital rates of Births are reported the highest in Neyyattinkara municipality with 35.80% followed by Thalassery Municipality with 34.84%. The same is reported the lowest in Chittur Thathamangalam Municipality with3.21%. As regards—the adjusted residential vital rates of deaths, it is the highest in Kayamkulam Municipality with 9.36% followed by Vaikom Municipality with 9.13% and the same is the lowest in Malappuram Municipality with 1.53%.

Conclusion

The survey was successfully completed in four city Corporations and in twenty-nine selected Municipalities during the year 2004. The survey result reveals that under registration of vital events still exists to a certain extent in urban areas of Kerala.In the case of deaths, under registration was still there and hence cent percentage of civil registration was not achieved during the year under report also. 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: 2003 (as on 1st July)

				c. por deline. 2003 (as on 1st July)	on 1st July)
Si.	SI. No.	Municipality/ Corporation	2001 Census Population	Population as on 2003 1 st July	Percentage of Growth
_		Neyyattinkara	-0700		
2		Thiruvananthaniram Commission	69467.	71041	2.27
0		Atti	744983	761852	900
2		Attingal	35693	17700	07.7
4		Kollam Corporation	20000	36447	2.11
Ω.		Pinalur	0961.06	367684	1.69
0			47235	47461	0.78
0		Kayamkulam	68585	00000	0.10
7		Mavelikkara	00700	67600	0.49
α		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20439	28472	0.12
		Alappuzila	177029	177584	
6	-	Cherthala	45105	100	0.31
10		Thiruvalla		45531	0.94
7	1		26837	57328	0.86
		Changanacherry	51967	61752	
12	<u> </u>	Kottayam	60728	50047	1.68
13	α.	Palai	22:52	75070	1.69
14	>	Waliem	77040	23023	1.69
	>	alivol I	22641	23024	1 69
15	Σ	Muvattupuzha	29246	20644	DD 00
16	<u>×</u>	Kochi Corporation	595575	45050	1.36
17	A	Aliva		903050	1.25
			24110	. 24655	2.26
			and Constitution		

Residential Vital Statistics 2003, Department of Economics Statistics, Kerala.

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Table 1 Contd.

SI. No.	Municipality/ Corporation	2001 Census Population	Population as on 2003 1 st July	Percentage of Growth
18	Paravur	30059	30584	71.7
19	Perumbavoor	26547	27008	1.75
20	Irinjalakkuda	28873	2000	1.73
21	Kodungallur	33539	34097	1.15
22	Chalakkudy	48380	40188	1.66
23	Thrissur corpn.	317526	323809	1.67
24	Guruvayoor	21186	21419	00.7
25	Kunnamkulam	51592	52613	1.03
56	Palakkad	130767	132577	1.38
27	Chittoor-Thathamangalam	31886	32607	2.26
28	Thirur	53654	54685	1 92
29	Malappuram	58491	60760	3.87
30	Kozhikkode Corpn.	436556	440557	0.92
31	Vadakara	75847	76666	1.08
32	Thalasserry	99387	102207	2.83
33	Kannur	63797	64877	1.69
34	Kasaragod	52634	53237	1.15

Table-2, Number Of Educational Institutions-2003

	Grand	otal	21	22	231	25	123	30	40	31	53	12	48	47	42	14	15	26	136	18
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Residential Vital Statistics 2003, Department of Economics Statistics, Kerala.

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Table 3 - Number of Hospitals and other Institutions 2003

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	Min					eyyatt	hiruva	ıram o	Attingal	ollam (Dinol	ָם בּ	Kayamkulam		wavelikkara	Alappuzha		Cherthala	Thiruvalla	angar	Kottottom	iayall	<u></u>	Vaikom	Muvattupuzha		'ni	.	g
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Table 3 (Contd...)

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	nity 8	0	1		7	16	-	1	+	+	+	+-	+	-	_	-			-	-			_		\downarrow	-			
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	nstitu	Η.	No.		12	2	23	25	Φ	32	27		1	1	7	19	15		1	-	87		115		86	17	= -	-	22
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	t y	. E															am												
P	Municipality/	Corporation			,		Perumbayoor	uda	100	è	Thrissur corp.	5	Kunnamkulam	Valai.	73		Thathamangalam	5		am		စ		_	2			٥	
	Muni	Corp				raravur	qun	Irrinjalakuda	Kodungallur	Chalakudy	ssur	Guruvayur	men	5	Palakkad	Chittoor-	tham		5	Malappuram		Koznikode	20.	Vadakara	Thalaccorn	9330	اج	Kasaragod	
				1	Ċ	r a	Pe	iE.	δ Š	5	Thr	Gu	X	2	Pal	Chi	Tha	H		Mal]:	Koz	Corpor.	Vad	Tha		Kannur	Kas	
Ū.	2	2	•	-	. 0		13	19	19	20	21	22	23		74	25		90	07	17	000	28		29	30	T	7	32	

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Table 4- Registration units with Area and Population 2003

F		Ţ			1		
SI	\Corporation	No of Reg units	Area in sq\km	Area Per Reg units	Mid year population	Population per Reg units	Densitry per Sq km
1		5	6	7	8	9	10
	- Jackin Maria	1	28.78	28.78	71041	71041	2468
2		20	141.71	7.09	761852	38093	5376
3		1	14.775	14.775	36447	36447	2467
4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	57.28	57.28	367684	367684	6419
5		1	34.60	34.60	47461	47461	1372
6		1	21.79	21.79	68923	68923	
7	THE TOMINATA	1	12.65	12.65	28472	28472	3163
8		2	46.77	23.38	177584	88792	2251
9	- Tarionio	1	16.18	16.18	45531	45531	3797
10	and the state of t	1	27.52	27.52	57328	57328	2814
11	Changanacherry	1	13.50	13.50	52847	52847	2083
12	Kottayam	2	16.45	8.22	61752	30876	3915
13	Palai	1	16.06	16.06	23023	23023	3755
14	Vaikom	1	8.73	8.73	23024	23023	1434
15	Muvattupuzha	1	13.18	13.18	29644	29644	2637
16	Kochi Corporation	2	94.88	47.44	603050	301525	2249
17	Aluva	1	7.18	7.18	24655		6356
18	Paravur	1	9.02	9.02	30584	24655	3434
19	Perumbavoor	1	13.61	13.61	27005	30584	3391
20	Irrinjalakuda	1	11.24	11.24	29206	27005	1984
21	Kodungallur	1	17.40	17.40	34097	29206	2598
22	Chalakudy	1	25.23	25.23	49188	34097	1960
23	Thrissur			20.20	323809	49188	1950
24	Guruvayoor	1	7.47	7.47	21419	04446	
25	Kunnamkulam	1	34.18	34.18	52613	21419	2867
26	Palakkad	1	26.60	26.60	132577	52613	1539
27	Chittoor-	1	14.71	14.71	32607	132577	4984
-00	Thathamangalam				02007	32607	2217
28	Thirur	1	16.55	16.55	54685	EACOL.	
29	Malappuram	1	33.69	33.69	60760	54685	3304
30	Kozhikode Corp.	14	84.25	6.02	440557	60760	1804
31	Vadakara	1	21.34	21.34	76666	31468	5229
32	Thalasserry		23.98	7.99	102207	76666	3593
33	Kannur	1	11.03	11.03	64877	34069	4262
34	Kasaragod		16.69	16.69	53237	64877	5882
					00201	53237	3190

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

		r	Registi	ration L	Inits				
SI.	Municipality/ Corporation	Bur	ial Grou			ation Gr	ounds	Total Regis	o the sourcest come to
		Mun/ Corp	Private	Total	Mun/ Corp.	Private	Total	No. of wards	
1	2	3	4	5	6	7	8	9	10
1	Neyyattinkara	1	4	5	_	3	3	37	1
2	Thiruvananthapura m	4	30	34	1	3	4	81	20
3	Attingal	1	1	2		5	5	24	1
4	Kollam	2	37	39	2	1	3	50	1
5	Punalur	1	20	21	-	<u>-</u>		30	1
6	Kayamkulam	1	14	15	1	2	3	38	1
7	Mavelikara	1	9	10	-	1	1	23	1
8	Alappuzha	3	2	5	-	19	19	50	2
9	Cherthala	-	5	5	1	4	5	28	1
10	Thiruvalla	2		2	1	-	1	32	1
11	Changanacherry	1	12	13	-	1	1	32	1
12	Kottayam	1	15	16	1	3	4	37	2
13	Palai	1	6	7	1	-	1	20	1
14	Vaikom				1		1	20	1
15	Muvattupuzha	1	8	9	-	-	-	23	1
16	Kochi Corporation	8	40	48	5	11	16	66	2
17	Aluva	-	7	7	-	3	3	21	1
18	N.Paravur	1	5	6	-	1	1	23	1
19	Perumbavoor	1	8	9	-	1	1	21	1
20	Irrinjalakuda	1	5	6	•			22	1
21	Kodungallur	-	2	2	1	1	2	24	1
22	Chalakudy	2	8	10	-	1	1	28	1
23	Thrissur								
24	Guruvayoor	1	4	5	1	1	2	20	1
	Kunnamkulam	2	11	13	-	-	-	31	1
26	Palakkad	4	7	11	3	1	4	50	1
27	Chittoor- Thathamangalam		1	1		-	3	24	1
28	Thirur	2		2		_	2000	28	1
29	Malappuram	1	10	11	-	1	1	24	1
30	Kozhikode Corpor.	2	9	11	4	2	6	39	14
31	Vadakara	1	8	9	X — 0	-	-	40	1
32	Thalasserry	1	15	16	1	11	12	50	3
33	Kannur	1	13	14	1	-	1	38	1
34	Kasaragod		12	12	2	1	3	32	1
34	Nasaragea					7			

Table 6 - Vital events registered during the year 2003

		Total	17	•		1	21	1	Ī	i	30	-	က	-	Ī	-	1	-	133	ī
, ~ ,	dents	Female	16	-			10	1	•	i	14	1	2	1	1	ī	1	,	62	ı
Sirths	vents nal resi	Male	15	1	1	1	11			ı	16	-	-	-	1	-		-	77	1
Still Births	Total Events Events to normal residents	Total	14	•	226		71		4	4	165	16	33	2	7	ω	က	ო	193	12
~ 1	Event	Female	13	•	106		32	ı	2	-	29	6	13	1	က		-	2	91	6
112		Male	12		120	ī	39	i	2	ო	86	7	20	7	4	t	2	-	102	က
		%	11	37.77		11.68	33.00	11.26	15.80	8.52	20.82	10.87	9.89	18.05	5.55	5.66	12.41	12.70	62.94	3.14
	lents	Total	10	423		166	5136	409	798	280	2474	323	452	361	192	147	177	436	12256	123
	mal resid	%	6	39.37		11.82	32.09	10.71	15.30	8.63	20.93	11.99	9.83	18.88	5.45		12.36	12.73	63.92	2.44
S	Events to normal residents	Female	89	213		81	2413	194	391	132	1215	179	220	189	26	71	91	213	6019	48
Live Births	Eve	%	7	36.27		11.55	33.85	11.80	16.32	8.43	20.72	9.74	9.95	17.22	5.65		12.46	12.68	62.02	3.83
] =		Male	9	210		85	2723	215	407	148	1259	144	232	172	95	76	98	223	6237	75
		Total	5	1120	38286	1421	15563	3633	5050	3285	11881	2972	4571	2000	3461	2599	1426	3432	19473	3921
	Total Events	Female	4	541	19487	685	7519	1811	2556	1529	5805	1493	2239	1001	1781	,	736	1673	9417	1965
	Ā	Male	6	579	18799	736	8044	1822	2494	1756	9209	1479	2332	666	1680	1	069	1759	10056	1956
	Municipality/ Corporation		7	Neyyattinkara	Thiruvananthapuram	Attingal	Kollam	Punalur	Kayamkulam	Mavelikara	Alappuzha	Cherthala	Thiruvalla	Changanacherry	Kottayam	Palai	Vaikom	Muvattupuzha	Kochi Corporation	Aluva
	Si. No		1	-	2	3	4	သ	9	7	_∞	6	10	11	12	13	14	15	16	17

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Table 6 - Contd.

193 8	$\overline{}$	_		_	_	_					50.845.09									
	rmal	Total	17			-				-	. 6	2		-	Ī	253	4	6	9	8
	Events to normal residents	Female	16							-	8	2		-		147	-	5	2	3
Still Births	M	Male	15			-				-		3				106	3	4	4	5
Still	S	Total	14	5	9	4	18	ı		18	17	26	-	17	49	651	11	11	23	81
	Total Events	Female	13	4	2	1	11			10	10	16	-	5	30	301	5	33	6	30
	F	Male	12	-	4	4	7	1		80	7	10	1	12	34	350	9	44	14	51
		%	11	5.99	7.63	6.60	4.37	5.54		11.67	10.61	9.49	3.50	9.18	60.9	15.97	19.81	30.26	13.66	8.89
	ents	Total	10	198	206	118	232	20		416	437	1266	7	892	448	6270	463	3320	820	869
	nal resid	%	6	5.86	7.15	5.81	4.24	6.39		11.06	11.47	9.46	3.19	9.29	5.99	15.69	20.82	30.59	14.09	8.90
	Events to normal residents	Female	89	96	91	51	112	11		195	232	735	ю	373	215	3000	243	1614	417	337
Live Births	Ever	%	7	6.11	8.05	7.37	4.49	4.76		12.26	9.78	9.35	3.77	80.6	6.19	16.25	18.80	29.95	13.25	8.89
ב		Male	9	102	115	67	120	თ		221	205	531	4	395	233	3270	220	1706	403	361
	s	Total	2	3307	2700	1787	5311	361		3565	4118	13331	200	8368	7350	39258	23337	10973	6001	7844
	Total Events	Female	4	1639	1272	878	2639	172		1763	2022	7772	94	4016	3584	19130	1167	5276	2960	3785
	T	Male	3	1668	1428	606	2672	189		1802	2096	2559	106	4352	3766	20128	1170	2699	3041	4059
Mileoioioi/M	Corporation		2	Paravur	Perumbavoor	Irrinjalakuda	Kodungallur	Guruvayour	Thrissur	Chalakkudy	Kunnamkulam	Palakkad	Chittoor- Thathamangalam	Thirur	Malappuram	Kozhikode Corporation	Vadakara	Thalasserry	Kannur	Kasaragod
Ū	ž		1	18	19	20	21	22	23	24	25	56	27	28	29	99	31	32	33	34

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		%	23	57.55	21.96	68.02	50.95	49.08	78.22	26.47	42.02	26.33	66.35	29.49	8.26	31.35	51.31	32.36	66.92	15.16
	fents	Tot	22		1965	134	+-	242	+-	162	1106	188	211	366	09	116	157	122	4584	82
	Events to normal residents	%	21	52.31	19.63	68.54	53.58	56.08	92.63	22.69	46.46	24.06	77.42	36.66	11,44		50.00	30.43	69.14	19.34
ath	to norr	Fem	20	113	836	19	532	106	176	64	486	83	96	169	39	38	63	42	1736	41
Total Death	Events	%	61	62.24	24.07	67.59	49.46	44.74	69.52	29.69	39.09	28.46	59.28	25.27	5.45		52.22	33.47	65.65	12.46
		Male	18	150	1129	73	898	136	219	86	620	105	115	197	21	78	94	80	2848	41
	nts	Tot la	17	457	8950	197	2748	493	505	612	2632	714	318	1241	726	370	306	377	6849	541
	Total Events	Female	16	216	4259	89	993	189	190	282	1046	345	124	461	341	•	126	138	2511	212
	P _D	M _a	15	241	4691	108	1755	304	315	330	1586	369	194	780	385	•	180	239	4338	329
	ormal ts	Total	14	263	1965	134	1374	240	393	161	1098	187	210	362	09	116	157	120	4403	82
	Events to normal residents	Female	13	113	836	19	518	106	176	64	478	82	96	168	39	38	63	41	1664	1.4
Other Deaths	Eve	e a	12	150	1129	73	856	134	217	6	620	105	114	194	21	78	94	79	2739	41
Other	ents	ᇑᅼ	11	454	8500	197	2659	481	497	594	2472	712	314	1175	722	361	306	369	6491	533
	Total Events	Female	10	214	4044	88	952	187	189	275	979	344	123	439	338	1	126	133	2376	500
		Male	6	240	4456	108	1707	294	308	319	1493	368	161	736	384	ï	180	236	4115	324
	s to al nts	Tot	8				26	2	7	-	28	-	1	4.				2	181	1
t l	Events to normal residents	Female	7				14	,	_	1	∞		1	-				_	72	1
Infant Death		Na e a	9				12	2	2	_	20	Ŀ	_	3	•	'		-	109	•
Infan	ents	ᇑᅼ	2	m	450	ų.	89	12	∞	18	160	2	4	99	4	6		8	358	8
	Total Events	Fem ale	4	7	215	'	41	2	-	7	67	1	I	22	3	•	•	3	135	3
	۵_	Ma	3	-	235	•	48	10	7	=	93	1	3	44	1		1	3	223	5
	Municipality/ Corporation		2	Neyyattinkara	Thiruvanantha- puram	Attingal	-					Cherthala	Thiruvalla	Changana- cherry	Kottayam	Palai	Vaikom	Muvattupuzha	Kochi Corporation	Aluva
	<u>છે 5</u>		-		2	က	4	2	9		ω	6	9	7	12	13	14	15	16	17

Table 6 - Contd.

		%	23	12.92	28.26	48.61	26.16	51.89		48.92	56.91	28.58	69.23		42.07	17.88	30.07	45.40	32.73	36.28	36.00
	sidents	Tot	22	73	16	140	124	274		89	354	525	189		236	93	2800	331	613	\dashv	216
	mal res	%	21	13.25	42.16	56.86	35.37	18.65		64.70	61.59	28.40	80.19		44.34	20.18	33.94	46.98	37.87	37.14	38.01
ig i	Events to normal residents	Female	20	31	43	58	58	125	\dashv	33	178	240	85		86	45	8611	140	295		
Total Death	Event	%	61	12.69	21.82	44.09	21.29	46.71		39.77	52.85	28.73	62.28		40.59	16.16	17.72	44.32	29.07	35.61	34.09
-		Ma le	18	42	48	82	99	149		35	176	285	104		138	48	1602	191	318	-	105
	ıts	Tot	17	292	322	288	474	528		139	622	1837	273		561	520	9311	729	1873	725	009
	Total Events	Female	16	234	102	102	164	209		51	289	845	106		221	223	3530	298	779	315	292
	Ď.	Ma e e	15	331	220	186	310	319		88	333	766	167		340	297	5781	431	1094	410	308
	rmal	Tot	14	73	06	140	124	269		89	350	514	189		230	91	2551	327	605	263	213
	Events to normal residents	Fem ale	13	31	42	58	58	124		33	178	236	85		96	45	1092	138	291	117	109
eaths	Even	Ma	12	42	48	82	99	145		35	172	278	104		134	46	1419	189	314	146	104
Other Deaths	ts	Tot	11	995	307	280	463	510		136	592	1714	273		979	460	8481	723	1817	929	554
	Total Events	Female	10	232	66	66	160	204		51	274	788	901		211	194	3167	295	780	292	271
	Tot	Ma e a	6	328	208	181	303	306		85	318	976	191		315	266	5314	428	1037	378	283
	0 %	Tot	8		-			5			4	=			9	2	249	3	8	-	3
	Events to normal residents	Female	7		-			-			•	4			2	•	901		4		2
ath	죠ㄷ인	Ma	9					4			4	7			4	7	143	7	4	1	_
Infant Death	ts.	Total	5	5	15	8	11	18		3	30	123	t		35	09	830	9	106	55	46
=	Total Events	Female	4	2	3	3	4	5			15	57	٠		01	29	363	5	49	23	21
	Tota	Male	3	3	12	5	7	13		3	15	99			25	31	467	3	57	32	25
	Municipality/ Corporation		2	Paravur	Perumbavoor				1	1	1		i	Thathamangalam	Thirur	Malappuram			1	1	
	is S		-	18	19	20	21	22	23	24	25	26	27		28	29	8	31	32	33	32
1		A constant				-	-	-	_												

Table 7 - Deaths according to causes 2003

22	458	895	197	2748	493	505	612	2632	714	1241	318	726	370	306	377	6849	541
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Table 7 (Contd...)

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Table 8 - Results of Spot Check Survey - 2003

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		Enume rated	9	198	193	143	232	310		178	283	532		168	558	448	1025	298	310	007	P	178
No. of	holds	Visited	5	4510	4393	4297	4771	6283		3700	5778	7147		4634	4717		17418	4863	5315	4267	120	5971
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2 3	Municipality/ Corporation		. 2	N.Paravur	Perumbavoor	Irrinjalakuda	Kodungallur	Chalakudy	Thrissur	Guruvayoor	Kunnamkulam	Palakkad	Chittoor-	Thathamangalam	Thirur	Malappuram	Kozhikode Corpo.	Vadakara	Thalasserry	Kannur	Kasaraood	noen money
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Table 9 - Under Registration and Occurrence of outside events

	SI. Municipality/ No Corporation	. % Of unde	er registration	% of outside	de registration
	Corporation	Births	Deaths	Births	Deaths
1	1 2	3	4	5	6
2	Neyyattinkara	-		83.38	27.81
3	- Transmapuralii		3.47	3.75	0.71
4	Attingal	-	H	65.56	36.21
-	Kollam	-	-	10.34	14.38
6	Punalur		9.8	25.35	21.90
7	Kayamkulam	-	17.14	32.36	26.05
-	Mavelikara	-	-	40.54	18.67
8	Alappuzha	-	2.03	17.33	5,20
9	Cherthala	-	1.3	33.65	4.60
10		-	-	22.9	23.26
11	garaonerry	-	3.13	60.99	39.05
12	1111111	-		42.53	67.95
13		-		55.78	14.66
14				53.69	25.33
15	Muvattupuzha	-	3.77	41.35	32.05
16	Kochi Corporation	-	-	15.69	0.92
17	Aluva	A. 194		61.78	41.46
18	N.Paravur	-		47.47	6.85
19	Perumbavoor			51.29	29.67
20	Irrinjalakuda	-	-	69.23	35.63
21	Kodungallur	-	-	11.21	12.90
22	Chalakudy	-	4.65	38.06	16.23
23	Thrissur	1011-011-01-01-01			10.20
24	Guruvayoor	-	14.5	92.1	36.7
25	Kunnamkulam	-	-	54.06	17.34
26	Palakkad	1 1 1	ш	8.27	15.47
27	Chittoor- Thathamangalam	-	-	93.45	29.91
28	Thirur			31.36	47.47
29	Malappuram			18.75	17.17
30	Kozhikode Corp.	_	5.49	8.78	-
11	Vadakara		2.65	69.13	5.45
2	Thalasserry	-	2.00		19.29
3	Kannur		9.78	6.77	10.06
4	Kasaragod			27.38	34.29
				12.36	5.88

Table 10 - Registered Vital Rates and Adjusted Residential Vital rates 2003

SI.		Registere	ed vital rates	Adjusted resid	ential vital
1	- Tolporation	Births	Deaths	Adjusted resid Births	
1	2 Neyyattinkara	3	4	5	Deaths 6
2		5.95	3.70	35.80	5.13
3	Thiruvananthapuram *	9.0			0.10
4	Attingal	4.55	3.68	13.21	5.77
5	Kollam Corpn. Punalur	13.97	3.81	15.58	4.45
6	10000	8.62	5.10	11.55	7.14
100	Kayamkulam	11.57	5.73	17.11	9.36
7	Mavelikara	9.83	5.69	16.53	7.00
8	Alappuzha	13.93	6.34	16.85	
9	Cherthala	7.1	4.2	10.70	6.82
10	Thiruvalla	7.88	6.38	10.22	4.92
11	Changanacherry	6.83	3.99	17.51	8.31
12	Kottayam	3.11	0.97	5.41	6.76
13	Palai	6.38	5.04		3.03
14	Vaikom	7.68	6.82	14.42	5.91
15	Muvattupuzha	14.72	4.12	16.58	9.13
16	Kochi Corporation	20.32		25.09	6.29
17	Aluva	4.99	7.60	24.10	7.67
18	Paravur	6.47	3.33	13.13	5.9
19	Perumbavoor	7.62	2.39	12.32	2.57
20	Irrinjalakuda	4.04	3.37	15.64	4.79
21	Kodungallur	6.80	4.79	13.13	7.44
22	Chalakkudy	8.46	3.64	7.65	4.18
23	Thrissur	0.40	5.57	13.66	6.97
24	Guruvayoor	0.93	247		
25	Kunnamkulam	8.31	3.17	11.77	5.86
26	Palakkad		6.65	18.09	8.06
27	Chittoor-	9.55	3.96	10.41	4.68
	Thathamangalam	0.21	5.8	3.21	8.28
28	Thirur	14.04	4.32	20.45	5.22
	Malappuram	7.37	1.53	9.07	1.53
	Kozhikkode Corpn.	14.23	6.36	15.60	7.11
	Vadakara	6.04	4.32	19.57	5.50
	Thalasserry	32.48	6.00	34.84	6.67
	Kannur	12.64	4.05	17.40	6.83
34	Kasaragod	13.11	4.06	14.96	4.31

^{*}Due to the non availability of events to nomal residents, the figures could not be worked out.

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.

Percentage of under registration	Number of events occurred to normal residents inside the town but not registered x100 Number of events occurred among normal residents inside the town registered and not registered
2. Percentage of events	Number of events occurred among normal residents outside the town registered and unregistered x 100
occurred outside the town to normal residents	Number of events enumerated and occurred among normal residents inside and outside the town
Registered birth/death rate to normal residents	Total no of birth/death occurred to normal residents and registered in the town x 1000 Mid year population of the town
4. Residential birth/death rate to normal residents occurred inside the town (weighted for under registration)	Registered birth/death rate x 100 (100 – percentage of under registration
5. Adjusted Residential birth/death rate (weighted for outside events)	Residential birth/death rate to normal residents occurred inside the town (weighted for under registration) x 100 (100 – Percentage of events occurred outside the town to normal residents)

