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Government of Kerala

REPORT
ON
ANNUAL RESIDENTIAL
VITAL RATES
2000

Department of Economics & Statistics
Thiruvananthapuram
2003

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Preface

This report presents the adjusted vital rates of births and deaths in the selected Municipalities and Corporations for the year 2000. The rates have been estimated from the registered births and deaths to the normal residents after making adjustments for under registration and for the events occurring outside the Municipal/Corporation areas, using the results of spot check survey conducted in the selected Municipalities and Corporations. 29 Municipalities and 5 Corporations are covered in the report. The reports from Thrissur Corporation, Punalur Municipality and Tirur have not incorporated due to non availability of the data in time. The vital statistics unit of the Department of Economics and Statistics has prepared the report.

M.R Balakrishnan Director

Thiruvananthapuram,

2/6/2003

RESIDENTIAL VITAL RATES 2000

Introduction

The Civil Registration System was introduced in India under the Births and Deaths Registration Act charted by parliament in 1969. The Act stipulated that every event should be registered in the respective registration units based on place where the events was 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 is existing to a certain extend.

One of the important classifications in population data is the urban and rural one. In Kerala the number of vital events happened in urban areas is always higher than that in the rural areas. It shows that the rate of urban registration of vital events is always higher than the rural registration rate. It is due to the flow of rural people to urban areas to avail modern medical facilities available in urban areas. 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 were happened in the houses and the rural people are not interested to register their death events due to unawareness about the registration of events hiding of certain deaths due to abortion and suicides etc.

Coverage of the survey

The Scheme , Spot check Survey aims at estimating the adjusted residential vital rates in the selected estimat the extend of under registration of vital events in the selected Municipalities and City Corporations and ascertaining the extend of under registration. The scheme is on the strengthening of Vital Statistics in the selected Municipalities and corporations is implemented in 5 Corporations and 29 Municipalities in the State. The fieldwork of the survey was carried out in all centers during the year under report. For conducting fieldwork of the survey 15 wards are randomly selected from each unit except the Corporations and Guruvayoor Municipality. In Corporations, 18 wards are selected for fieldwork and in Guruvayoor Municipality all wards are selected for the fieldwork. The statistical staff posted in the Municipalities/Corporations would be visited all houses of the selected wards and collecting the required data in the prescribed schedules of the survey.

Objectives of the Survey

- To estimate the extend of under registration of vital events in the selected Municipalities/Corporations
- 2. To estimate the residential vital rates of these Municipalities/Corporations
- 3. To find out the major diseases which lead to cause of death

Limitations of the survey

The most important limitation is the less coverage of the survey. The objective of the survey is to find out the under registration of events. However, the data derived from the survey is partial. For obtaining under registration in urban areas, it should be extended to the reviewing urban areas of the State. A comparative study is not possible under this survey. If this survey is extended to rural areas, a comparative study between urban and rural level of under registration could be made possible. Similarly a State level under registration can be estimated only if this survey is further extended to rural areas of the State and the remaining Municipalities of the State.

Findings of the Survey

Table 1

It presents the projected population of the selected Municipalities and Corporations. It is obvious from the table that the population of all Municipalities/Corporations is showing an increasing trend except Kottayam, Aluva Municipalitiy and Thrissur Corporations. Out of 34 selected centers, the maximum projected population was in Cochin Corporation. While in the case of Municipality it was in Alappuzha. The minimum number of projected population was in Kunnamkulam Municipality.

Table 2

This table shows the number of hospitals and other institutions both in public and private sector existing in these Municipalities/Corporations. As regard to hospitals; it was highest in private sector than Government sector. All centers have at least one public hospital. Among all centers, Thiruvananthapuram Corporation has the maximum number of public hospitals with 20 followed by Cochin Corporation with 15 numbers. In the case of Municipalities it was in Alappuzha having 8 numbers. Considering the bedding capacity in public hospitals it was also maximum in Thiruvananthapuram Corporation with 7037 numbers followed by Kozhikode Corporation with 4045 numbers. The number of private hospitals were maximum in Cochin corporation with 63 followed by Thiruvananthapuram and Kozhikode with 48 and 37 numbers respectively.

In the case of public dispensaries and other institutions it was maximum in Thiruvananthapuram Corporation with 21 numbers followed by Kozhikkode Corporation with 16 numbers. As regards to private dispensaries and other institutions, it was maximum in Alappuzha with 127 numbers followed by Kozhikkode Corporation with 99 numbers.

Number of maternity and child health centers was reported as 13 in both Kollam Corporation and Kozhikkode Corporation each. Out of 34 centers 5 centers have one maternal and child health centers. The same was not reported from any private centers except Thiruvananthapuram Corporation.

Table 3

This table furnish the details regarding the number of registration units, are and population of these selected centers. Based on the area wise classification, Thiruvananthapuram Corporation is the largest among them with 141.47sq.km.

followed by Kochi Corporation with 94.88 sq.km. As regards to Municipalities, it is Alappuzha with 46.77 sq.km. Considering the density of population it was highest in Kochi Corporation with 6504 numbers (per sq.km.) followed by Kollam Corporation with 6378 numbers. While it was lowest in Pala Municipality with 1390 numbers.

Table 4

This table represents the number of burial grounds and cremation grounds outstanding in the selected centres. Regarding the municipal burial sgrounds, it was maximum in Cochin Corporation with 8 numbers followed by Palakkad and Thiruvananthapuram Corporation with 4 numbers each. Private burial grounds were also outstanding in all centres while the number of private burial grounds were higher than the municipal grounds in almost all centres.

Private cremation grounds are not existing in 12 centres. Kochi Corporation having the maximum number of private burial grounds with 40 numbers followed by Kollam Corporation with 37 Thiruvananthapuram Corporation with 30 numbers each.

Table 5

This table show the total number of vital events registered in the respective Municipality/Corporation and, the number of vital events of the usual residents registered in the registration units. Live births were registered maximum in Kozhikkode Corporation with 41928 numbers of which 23060 events were belonging to the normal residents. Next it was in Thiruvananthapuram Corporation with 39943 numbers. In the case of Municipality it was maximum in Palakkad Municipality with 14083 numbers and the lowest number of live births were registered in Chittoor Municipality with 40 of which the events of normal residents were only 5 numbers.

Regarding stillbirth it was registered maximum in Kozhikode Corporation with 681 numbers of which 266 events belonged to the events of normal residents. Next it was in Thiruvananthapuram corporation with 384 numbers

In the case of infant deaths it was registered highest in Kozhikode corporation with 882 numbers of which the males and females breakup were 486 and 396 numbers respectively. While the number of infant deaths in respect of normal residents was 366.

Next it was in Thiruvananthapuram Corporation with 671 numbers. In respect of Municipalities, it was highest in Alappuzha with 231 numbers and the events of normal residents were 33 numbers Infant deaths was registered lowest in Guruvayoor Municipality and Chittoor Thathamangalm with 2 numbers where Vaikom Municipality has 3 numbers respectively. Infant death was not registered in Chalakkudy and Attingal during the year under report.

The number of deaths registered during the year under report was highest in Thiruvananthapuram Corporation with 9670 of which the events of normal residents were 1684 numbers. Next it was highest in Kozhikode Corporation with 8707 numbers. In the case of Municipalities, it was highest in Alappuzha Municipality with 2628 numbers of which the number of deaths registered to normal residents were 904. Next it was in Palakkad Municipality with 1956 numbers. However the lowest number of deaths were registered in Guruvayoor municipality with 145numbers and Chittoor with 226 numbers.

Table No.6

The survey results recorded that the major diseases caused to death were Respiratory diseases, cancer, heart failure pulmonary diseases and others. The survey results showed that deaths were registered highest in Thiruvananthapuram Corporation with 9707 per unit of which 2460 deaths were due to heart diseases and 1645 due to cancer and 5295 for other causes. However in Kozhikode Corporation out of 8707 deaths events 594 deaths were due to respiratory disease and 470 for cancer and 8124 for other causes. No cause of death were reported from 8 municipalities viz. Kayamkulam, Mavelikkara, Changanasseri, Irinjalakuda, Kodungallur, Chittoor, Vadakara and Thalassery.

Table No.7

This table presents the results of the spot check survey of these selected units. The data showed that almost all-vital events were registered in the respective registration units.

As regards to the Infant death was enumerated in the municipalities Neyyattinkara, Kollam, Kayamkulam, Alappuzha, Thiruvalla, Chaganessery, Muvattupuzha, North Paravoor, Kodungalloor, Kunnamkulam, Palakkad, Malappuram, Kasargode and Kozhikkode Corporations. Whereas all the infants death were either registered or events happened in the outside area except in Changanassery.

In the case of death which occurred in the registration units all enumerated death had been registered in all centres except Changanassery Municipalities. As such, the survey result shows that the number of death occurred inside area were also higher in most of the centres.

Table 8

This table presents the percentage of under registration and the percentage of outside events in the s. Considering the percentage of under registration of births, it was highest in Perumbavoor Municipality with 0.98% and the same was lowest in Palakkad with 0.12%. As regards to the deaths, it was highest in Mavelikkara with 20.83% followed by Kozhikkode with 12.29% whereas it was seen lowest in Thiruvananthapuram with 1..00%.

Considering the percentage of outside events of births it was seen highest in Chittoor Municipality with 83.60%. At the same time it was lowest in Thiruvananthapuram Corporation with 3.75%. In the case of deaths, outside events occurred were highest in Kannur Municipality with 75 % and the same was lowest in Thiruvananthapuram with 2.81%.

Table No.9

This table displays the registered vital rates and Adjusted Residential vital rates in these Municipalities/Corporations.

Considering the registered birth rates, it was highest in Kozhikode Croporation with 51.88% followed by Thalassery Municipality with 42.20%. Next it was in Kottayam with 22.50% At the same time, it was lowest in Kannur Municipality with 0.12% As regards to registered death rates it was highest in Kozhikode Corporation with 9.8 % followed by Malappuram Municipality with 8.32% and the same was lowest in Vadakara Municipality with 0.12%.

Adjusted residential vital rates of Births was reported highest in Kozhikode Corporation with 51.88% followed by Neyyattinkara Municipality with 50.61%. The same was reported lowest in Vadakara Municipality. As regard to the adjusted

Table 1 - Estimated Mid-year Population of Municipalities and Corporations 1993 to 2000 AD (as on 1st July)

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Corporation Public Private Total Private Private Total Private Private | Municipality Public Private Total Posts No. Beds No. <t< td=""><td>Mullicipality Public Private Total Corporation No. Beds No. Ro No. Ro No. Ro <td< td=""><td>Multicipality/
Corporation Public Private Total Corporation No. Beds No. No. No. No. No. No. <</td><td>Wulnicipality/
Corporation Public Frivate Total Public Frivate Total Public Private Total Public Private Total Public Private Total Public Public Private Total Corporation No. Beds No. Beds</td><td>Wullnicipality Corporation Public Private Total Public Private Private Total 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16 17 18 10 18 10 18 12 1 15 16 17 18 9 10 11 12 13 14 15 16 17 18 10 18 10 18</td><td>Wulnicipanity Corporation Public Total Public Private Pr</td></td<></td></t<> | Mullicipality Public Private Total Corporation No. Beds No. Ro No. Ro No. Ro <td< td=""><td>Multicipality/
Corporation Public Private Total Corporation No. Beds No. No. No. No. No. No. <</td><td>Wulnicipality/
Corporation Public Frivate Total Public Frivate Total Public Private Total Public Private Total Public Private Total Public Public Private Total Corporation No. Beds No. Beds</td><td>Wullnicipality Corporation Public Private Total Public Private Private Total 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16 17 18 10 18 10 18 12 1 15 16 17 18 9 10 11 12 13 14 15 16 17 18 10 18 10 18</td><td>Wulnicipanity Corporation Public Total Public Private Pr</td></td<> | Multicipality/
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Corporation Public Frivate Total Public Frivate Total Public Private Total Public Private Total Public Private Total Public Public Private Total Corporation No. Beds No. Beds | Wullnicipality Corporation Public Private Total Public Private Private Total 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10 11 12 13 14 15 16 17 18 10 18 10 18 12 1 15 16 17 18 9 10 11 12 13 14 15 16 17 18 10 18 10 18 | Wulnicipanity Corporation Public Total Public Private Pr |

Table 3 - Registration units with Area and Population 2000

			_	T	Τ	T				Γ	Τ	Т			Τ	Т	丁			Т	Т		Г	Т
	Density per	Sq.Km.	10	3269	5220	3238	2415	6378		3356	2370	43/0	3831	2852	2008	2000	3919	4063	1390	2502	2000	2269	6504	3386
	Population per	Reg. units	ത	32659	37058		35695	365311		73085	29985	2000	88288	46151	57742	1 0000	2087G	33421	22141	22637	10077	78810	308519	24312
222	Mid year	popula-uoii	8	32659	741116	ני כי כי	CROCS	365311		73085	29985	470407	18181	46151	57742	E200E	COSC	55841	22141	22637	0,000	73310	617137	24312
	Area per Reg.	Cillian I	,	9.99	7.07	1/ 70	17.70	97.76		21.78	12.65	22.20	20.00	16.18	27.52	13.50	5 6	77.0.7	15.94	8.73	42.42	2 1	47.44	7.18
	Area in So km		0	9.99	141.47	14 78	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	07.70		21.78	12.65	46 77		10,18	27.52	13.50	78.44	*0.4	13.84	8.73	13.18	2 2 2	94.88	7.18
N/2 0.4	IND. OI REG. units	r,		-	20							2	•	- ,		•	6	1 ~				,	7	-
	Municipality/ Corporation	2	Nevvattinkara	Thir was as thousand	1 ill uvalialilliapuram	Attingal	Kollam	Punalur	Kavamkulam	Movelibore	Mayolikala	Alappuzna	Cherthala	Thirtycllo	Illiuvalia	Changanacherry	Kottayam	Palai	Voicom	ValvOIII	Muvattupuzha	Kochi Corporation	1000 E 10	Aluva
7	o N N	~	-	,	10	၁	4	5	9	7	†	0	о	10	2,7		12	13	1	1	15	16	\mid	

Table 3 (Contd...)

per	_		3272	1 1	1930	2568	1967	270	1912		3036	1509	3	5102	2289			1815	5279	3800	4156		6306	3456	
Density per	Sq.Km	19	C)		2						`				<u> </u>						1			
Population per	Reg. units	6	00300	53009	26254	28861	24241	1 1 7 1	48251		72697	0047	2 1202	135706	70000	2000		61155	31750	81101	19835	1	69561	57688	
Mid vear	popula-tion	α		295098	26254	28861	10000	34241	48251		70800	10027	51585	135706	1000	33000		61155	444496	81101	0000	,0/088	69561	47688	0000
200 200	Alea pel Neg.	7	,	9.02	13.61	70.77	11.24	17.40	25.23	12 80	7.03	7.40	34.18	28.80	20.00	14.71	16.55	22.70	20.00	5.50	41.34	11.94	11 03	2000	10.09
	Area in Sq.Km		9	0 0	12.64	20.01	11.24	17.40	25.23	20.50	12.09	7.48	37 18	04.10	70.60	14.71	48 FF	10.33	55.79	84.20	21.34	73.98	44 03	20	16.69
	No.of Reg.	units	വ	7				τ-	- -		؈	<u></u>	7	- -	_	-	- -	- ,		14	_	0	1	_	_
	M	Mullopainy) Or polation	2	7	Paravur	Perumbavoor	Irrinialakuda		Kodungallur	Chalakudy	Thrissur	200,000	Guluvayou	Kunnamkulam	במיזירוים	raiannau	Chittoor-I hathamangalani	Thirur	Malappuram	Kozhikode Corp.	Vadakara	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Thalasserry	Kannur	
	-14.7	SI.No	,	-	18	19	200	77	21	22	23		74	25	0	8	27	28	29	30	5 7	-	32	33	

Table 4 - Number of Burial Grounds, Cremation Grounds and Civil

Registration Units

SI.	Municipality/ Corporation	Bu	rial Grou	nds	Crem	ation Gro	ounds	Regist un	its
INO		Mun/ Corp	Private	Tota!	Mun/ Corp.	Private	Total	No. of wards	No. of units
1	2	3	4	5	6	7	8	9	10
1_1	1	1	4	5	-	3	3	37	1
2		4	30	34	1	0	1	81	20
3		1	1	2	-	5	5	24	1
4		2	37	39	2	1	3	50	1
5									
6	1 111) 111111111111	1	14	15	1	2	3	38	1
7	Mavelikara	1	9	10	-	1	1	23	1
8	1	3	2	5	-	19	19	36	2
9			5	5	1	4	5	28	1
10	Thiruvalla	2	-	2	_	-	-	32	1
11	Changanacherry	1	12	13		1	1	32	1
12	Kottayam	1	15	16	1.	1	2	37	2
13	Palai	1	6	7	-	-		20	1
14	Vaikom		1	1	1	1	2	20	1
15	Muvattupuzha	1	8	9				20	1
16	Kochi Corporation	8	40	48	5	11	16	66	2
17	Aluva	-	7	7		3	3	21	1
18	N.Paravur	1	7	8	1	7	8	23	1
19	Perumbayoor	1	8	9		1	- 1	21	
20	Irrinjalakuda	1	5	6	-	1	1	22	1
21	Kodungallur	-	2	2	1	1	2	24	1
22	Chalakudy	2	8	10		1	1	28	1
_23	Thrissur					 -	— <u> </u>		
24	Guruvayoor	1	4	5	1	1	2	15	1
25	Kunnamkulam	2	11	13		 -		31	
26	Palakkad	4	7	11	3	1	4	50	1
27	Chittoor-	3	-	3				24	1
	Thathamangalam				i	_	-	24	,
28	Thirur								
29	Malappuram	1	10	11		1	_	24	
30	Kozhikode Corpor.	2	9	11	4	2	6	39	1
31	Vadakara	1	8	9	-				14
32	Thalasserry	1	15	16	1	11	12	40	1
33	Kannur	- i	13	14				50	2
34	Kasaragod		12	12	_	<u>-</u> -	<u>1</u> 3	32	1
				14			<u> </u>	32	1

Table 5 - Vital events registered during the year 2000

Table 5 Contd.

				Total	74			•	•	•	<u> </u>			1	က	43				' (8	' (ית	-
		Events to normal	٦	Female	13		- - 	' 	•	1	1			•		33	•		-	007	2	٠ ,	0	-
	irths		Ī	Male	12	 	' -	-	•	'	-		-	•	•	10	,		-	150	2	' (7	-
	Still Births	ŀ	-	lotal	-	-	;	1 0	2		-			• •	Σ į	88	•		187 187	2 2	3 6	770	2 6	22
		Total Events	1 1 2 2 2 1	remale	10	9	^		1	1	-		-	 	1	45	,		48	316	7 0	3 4	5 4	2
		Ę	1000	Male	6	S	יצי	, 4	7	0		ailable	•	7	= 5	43	•	ilable	30	365	7	- 6	1,1	- ;
		rmal	L	ı Otal	8	203	160	140	2 0	047	400	Not available	26	722	21.5	2/43	2	Not available	621	23060	402	4206	630	3
		Events to normal residents	Female	- ciriaic	/	62	56	61	140	000	707		12	222	1007	200	2		297	10154	178	1982	307	
	Live Births	<u>—</u>	Mala	Malc	٥	141	104	88	120	250	323		14	211	1254	+00	3		324	12906	224	2224	323	
	Live	ıts	Total	2	ဂ	4099	2524	2083	5086	2000	2000		445	3672	14082	2001	40		6891	41928	4045	12310	5649	000
		Total Events	Female	,	4	1970	1148	696	2587	1800	3		205	1831	7309	2 1	7		3489	20418	2103	5957	2821	1110
			Male	,,	2	2129	1316	1114	2499	1958			240	1841	6774		52		3+02	21510	1942	6353	2828	1112
	Minimization	Corporation		2		raravur	Perumbavoor	Irrinjalakuda	Kodungallur	Chalakudv	Thrismr	THISSMI	Guruvayoor	Kunnamkulam	Palakkad	Chittoor Thathamanan	Cinttool - I nathaniangalam	Ihirur	Malappuram	Kozhikode Corporation	Vadakara	Thalasserry	Kannur	Kasaragod
	Ū.	2		7-	9	0 !	7	20	7	22	23	†	24	25	26	╁╴	十	7	7	30	31	32 7	33 k	34 K

Table 5 - Contd.

Other Deaths Total Events to normal residents Frents to normal residents Male all all all all all all all all all
Other Deaths Total Events Stall Events Events to normal Total Events Fem Total Male Female Total Fem Total 122 23 24 25 26 27 28 29 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 168 204 25 26 174 9670 408 408 3024 168 204 56 49 105 186 474 9670 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408
Other Deaths Total Events Stall Events Events to normal Total Events Fem Total Male Female Total Fem Total 122 23 24 25 26 27 28 29 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 168 204 25 26 174 9670 408 408 3024 168 204 56 49 105 186 474 9670 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408
Other Deaths Total Events Stall Events Events to normal Total Events Fem Total Male Female Total Fem Total 122 23 24 25 26 27 28 29 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 166 403 102 80 182 240 168 408 168 204 25 26 174 9670 408 408 3024 168 204 56 49 105 186 474 9670 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408 408
Other Deaths residents Total Events to normal Total Events Fem Total Male Female Total Male Female 22 23 24 25 26 27 28 166 403 102 80 182 240 168 166 403 102 80 182 240 168 166 403 102 80 182 240 168 166 403 102 80 182 240 168 168 204 56 49 105 118 86 168 204 163 1867 1157 168 204 163 1867 1157 168 252 261 169 474 168 252 261 160 450 408 169 254 27 255 206 160 160
Other Deaths Fem Events to normal residents Fem Total Male Female Total Male 22 23 24 25 26 27 22 23 24 25 26 2 166 403 102 80 182 2 166 403 102 80 184 48 1 166 4448 8999 772 912 1684 48 1 181 2890 1032 661 1693 18 1 181 2890 1032 661 1693 18 1 191 522 93 64 157 3 6 240 546 94 82 176 3 7 392 829 83 77 160 3 8 263 561 142 173 3 9 124 273 97 76 173 1 162 369 85 49 134 1 162 369 85 49 134 1 161 329 68 53 104 1 <
Other Deaths residents Events to normal residents Fem Total Male Female Total Male 22 23 24 25 26 27 22 23 24 25 26 2 166 403 102 80 182 2 166 403 102 80 182 2 1 166 403 102 80 184 48 1 168 8999 772 912 1684 48 1 1081 2890 1032 661 1693 18 1 181 522 93 64 157 3 9 78 2397 492 379 871 15 6 240 546 94 82 176 3 7 392 829 83 77 160 3 8 263 561 142 76 173 9 124 273 97 76 173 1 162 369 85 49 134 1 161 329 68 53 104 1
Other Deaths Fem Total Male Female Total ale 22 23 24 25 26 166 403 102 80 182 166 403 102 80 182 168 4048 8999 772 912 1683 1 198 2397 492 379 87 1 191 522 93 64 15 6 240 546 94 82 17 1 191 522 93 64 15 6 240 546 94 82 17 6 240 546 94 82 17 7 392 829 83 77 16 8 263 561 142 121 26 8 263 561 142 121 26 8 101 279 68 53 16 8 141 329 68 53 16 8 141 329 68 27 16
Other Deaths Fem Total Male Female ale 22 23 24 25 80 166 403 102 80 166 403 102 80 168 168 168 168 168 168 168 168 168 168
Other De Pem Total Male Lents Pem Total Mal
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tal Even ale ale ale 166 166 166 1681 191 191 191 191 191 191 191 191 191 1
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1 1 2 2 2 2 3 1 2 3 1 3 3 3 3 3 3 3 3 3
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Events to normal residents residents Aale Female Tot 18 19 20 18 19 20 20 13 20 14 20 15 20
Peath Feents Male Fee Male Fee Fee Male Fee Fee Fee Fee Fee Fee Fee Fee Fee F
Infant nts nts 17 17 17 17 134 184 194 1
Total Events Female T Female T 16 16 17 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10 11 10
Tota Tota 15
nkara nantha ation nkara nantha ation nantha ana-
Municipality/ Corporation 2 Neyyattinkara Thiruvanantha- puram Attingal Kollam Punalur Kayamkulam Mavelikara Alappuzha Cherthala Thiruvalla Cherthala Cherthala Thiruvalla Cherthala
▼ ○ │ │ 중 는 의 돌 첫 □ │ ☆ 돌 절 전 조 조 □ □ □ □ □ □ □ □
Si.No 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Table 5 (Contd....)

			Infant	Infant Death					Other Deaths	eaths		_			Total Death	Seath		
Municipality/ Corporation	Tot	Total Events	nts	Event	ents to normal residents	rmal	Tot	Total Events	ıts	Event	Events to normal residents	rmal	Tot	Total Events	ıts	Event	Events to normal residents	rmal
	Male	Fem ale	Total	Male	Female	Total	Male	Fem ale	Total	Male	Female	Total	Male	Fem ale	Total	Male	Fem ale	Total
	15	91	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	6	6	18	•	-1	1	294	267	561	43	32	75	308	282	590	43	33	76
Perumbayoor	9	1	7	-	-	•	205	128	333	48	42	06	211	229	340	48	42	8
Irrinjafakuda	6	9	15	1	1	2	142	107	249	79	99	145	151	113	264	80	67	147
Kodungallur	12	8	20	2	-	2	273	166	439	19	42	103	285	174	459	63	42	105
Chalakudy	-	-	-	-	-	-	234	184	418	103	95	198	234	184	418	103	95	198
Guruvayoor	2	•	2	•	-	•	84	59	143	25	25	50	98	59	145	25	25	50
Kunnamkulam	15	701	25	2	-	2	144	113	257	85	85	170	159	123	282	87	85	172
	111	70	181	109	55	164	1043	732	1775	3+0	282	622	1154	802	1956	449	337	786
	1	1	2	,	-	-	127	16	224	101	71	172	128	86	226	101	71	172
Thathamangalam																		
Malappuram	+	2	9	+	2	9	319	190	509	319	190	509	324	192	516	323	192	515
	98†	396	882	202	164	366	+26+	2851	7825	1904	1269	3173	2460	3247	8707	2106	1433	3539
Corporation.																		
-	12	10	22	•	•	-	394	336	730	48	38	86	+00	346	752	87	38	8
Thalasserry	52	45	16	+	9	01	1601	716	1810	341	305	9+9	1146	761	1907	345	311	656
	7	+3	8+	9	6	15	38+	325	402	1+0	86	238	425	368	793	146	107	253
Kasaragod	26	22	8†	7	9	13	265	253	518	176	161	370	291	275	999	183	200	383

Table 6 - Deaths according to causes 2000

Failure Diseases
15 16
- 361
5295
1 104
2310
_
366
542
49 2471
78 271
818
284
42 496
24 218
238
95
22 257

Table 6 (Contd...)

													_							
Total	17	590	3+0	264	459	418		145	282	1956	226			515	8707		752	1907	753	995
Others	16	347	108	264	459	232		64	249	1956	226			515	8124		752	1902	720	†††
Pulmonar Diseases	15		26			32									94	-				17
Heart Failure	14					38		4	15						199					
Gastro Enteritis	13																			
Cancer	12	31	73			11		5	18						470				28	62
Diph- theria	11																			
Rabies	10	1										_		-						
Enteric fever	6							5							7					
Respira- tory Diseases	ω	212	133			105		29							594				45	
Dysentery & Diarrhe	7				-										6					1
Small	9															•				
Cholera	5							•					_	_		_				
Plague Cholera	4																		_	
T.B	င																			32
Municipality/ Corporation	2	Paravur	Perumbayoor		Kodungallur	Chalakudy	Thrissur	Guruvayoor	Kunnamkulam	Palakkad	Chittoor-	Thathamangalam	Thirur	Malappuram	Kozhikode	Corpo.	Vadakara	Thalasserry	Kannur	Kasaragod
8	-	18	19	20	21		23	24	25	26	27		28	53	30	_	31	32	33	34

Table 7 - Results of Spot Check 2000

		_			_	1	_			_		_	<u> </u>	1	J	Π.		_		++		T _C) L	7	<u>ي</u>	—]
		ccurre	outside	17	26			c	77	5		26	23	28	~	<u> </u>	23	7	77	14		25	_	4		- 21	
	aths		Z Z	16	-				•	•		22	2	a c) 		•	·	-	1	_	ľ	,	7	<u>'</u>		
	Other deaths	Donie.	tered	15	73	2		1	3/	312		20	76	428	200	2	54	3	2	70	-	84	5 6	2	337	30	
nts			rated	14	8	66			59	357		118	110	727	4/4	,	77		<u>~</u>	84	-	- 0	3 2	<u> </u>	342	51	
al reside			ccurre poutside	13	2	-			٠	-		-	-	•		1	1			'			' '	_			
to norma	eaths	r	K.	5	- 1	-			•	•				-	•	•	•			•		•	'		•		
No of events detected to normal residents	Infant Deaths		Regis-	3 +	- 1	-			'	ď	,	r	7	•		•	3	•		•		•	•	-	ı	•	
ovents o	CAL	-	Enume F	┿	2	2				_	-	c	2	•	-	•	~	,	-			•	•	-	•		
No.	5	-+	ccurre E	-	Б	280		_	112	1 6	2	3,	140	114	147	32	22	3,5	155	S	3		156	123	77	125	22
	,	İ	R.N.	1		•			-	+	+	+	•	'	•	٠	\ 	•	<u>'</u>	1	•	,	-	2			
	-	Live Birrns		tered		87		_	200	200	828		294	131	954	126	907	92	112	10,	1 671	-	38	136	708	1	9)
			m.	rated	9	367	3	:	100	VII	110/		434	245	1101	126	200	138	267		417	18	194	262	785		211
,	 S S	Honse	Щ-	Visited	ည	7132	101		1000	5554	18990	-	5870	4243	18966	5105	21.5	6414	6414		5149	3496	3790	5512	21090		3839
}		_		holds	4	0708	0400		1	5534	23156	_	6504	4243	18966	6050	0000	6414	6414		5149	5614	5512	5512	28990		3839
	No of	_	wards 1	_	3	70	2			15	15	15	15	15	200		2	15	.		15	15	15	15	15		15
		Municipality/		···	2	1	Neyyattınkara	Thiruvanantha-	puram	Attingal	Kollam	Punalur	Kavamkulam	Mayelikara	Alphonizha	Alappuziia	Cherthala	Thiruvalla	Changana-	cherry	Kottayam	Palai	Vaikom	Muvattuouzha	Kochi	Corporation	Aluva
	<u> </u>			_	-	\dagger	Ž L	2. Th	Dd	3. A	一	-	+	+	- <	\dagger	9.	10. T	11.		12.	 −	_	4-	1	_	17.

Table 7 (Contd....)

			Total	No. of				No	Avente	patratal	10 000	No of events detected to normal racidants	4			
छं :	Municipality/	No. of	no. of	House		Live Births	3irths		CHICAG	Infant Deaths	eaths	iai icaide	<u></u>	Other deaths	leaths	
o Z	Corporation	selected	House hoids	holds	Enume	Regi	N.R	occurred	Enume rated	Regi- stered	S. R.	occurred Enume	Enume	Regis-	S. R.	ccurre
-	2	3	4	5	9	7	8	6	10	-	12	7	7	7.5	46	47
- - - -	Paravur	15	4668	4668	203	88		114	-		1	2	75	67	2	α
19.	Perumbayoor	15	4249	4249	249	101	-	147	-	'	'	-	2 2	47	4	2 6
20.	Irrinjalakuda	15	7271	4481	176	56	•	120				-	83	64	r •	9 6
21.	Kodungallur	15	4627	4627	248	174	•	74	2	-	•	-	103	83	4	4
22.	Chalakudy	15	7337	5596	258	165		93	•	•	,	'	228	106	- 4	117
23.	Thrissur	15											2	3	,	
24.	Guruvayoor	15	3139	3139	150	26	•	124	•	•	•	•	71	50	LC.	16
25.	Kunnamkulam	15	8103	5628	288	172	1	116	1	-	,	•	142	100	, .	42
26.	Palakkad	15	8830	8634	860	786	-	73	6	6	•		210	171	α	3 5
27.	Chittoor-	Ť,	4052	4050	7 00	3							2	-	2	5
	Thathamangalam	2	4233	44233	 0 	2,	ı	158	•	•	•	•	124	ტ ტ	_	24
28.	Thirur	15														
29.	Malappuram	15	6407	6206	621	522	,	66	2	2	,		118	113	•	7
30.	Kozhikode Corpo.	15	22236	17763	1367	1247	,	120	5	4	'	_	380	314	44	22
31.	Vadakara	15	4496	4496	187	412	<u> </u>	225	•	•		,	86	70	-	15
32.	Thalasserry	15	5795	5308	487	770	•	369	•		•	•	140	124	2	14
33.	Kannur	15	4213	3011	127	45	•	82	•		•		44	=	•	33
34.	Kasaragod	15	4403	4310	182	165	•	17	ა	4	•	-	63	57	•	9

Table 8 - Under Registration and Occurrence of outside events

	Pt. d	% Of under	registration	% of outside	registration
SI.	Municipality/	Births	Deaths	Births	Deaths
No	Corporation	3	4	5	6
1	22	 		76.29	26.73
1	Neyyattinkara	 	1.00	3.75	2.81
2	Thiruvananthapuram	 		54.63	37.29
3	Attingal			15.27	12.74
4	Kollam				
5	Punalur	 		32.26	22.03
6	Kayamkulam		20.83	46.53	19.32
7	Mavelikara		1.79	13.35	5.91
8	Alappuzha			20.20	11.20
9_	Cherthala			23.00	28.00
10	Thiruvalla		1.60	58.05	30.68
11	Changanacherry		1.00	41.58	16.66
12	Kottayam		3.50	48.28	36.40
13	Palai		3.50	80.41	28.09
14	Vaikom	-	2.04	46.32	27.00
15	Muvattupuzha		2.04	77.00	5.00
16	Kochi Corporation		<u> </u>	63.98	41.18
17	Aluva			56.10	10.50
18			7.04	59.03	37.80
19		0.98	7.84	68.19	22.89
20			1 5 5	29.84	16.19
21		<u>-</u>	4.55	36.04	3.91
22			<u> </u>	30.04	
23				82.67	22.54
24		<u>-</u>	9.09	40.28	29.58
25					14.15
26		0.12	3.96	8.49	
129	Chittoor-		Ţ .	83.60	19.35
27	7 Thathamangalam_				
2					4,49
	9 Malappuram		<u> </u>	15.94	5.79
		-	12.29	8.78	17.44
3			1.41_	54.61	10.00
3			1.60_	79.00	75.00
			-	64.57	9.52
	3 Kannur 4 Kasaragod		-	9.34	9.52

Table 9 - Registered Vital Rates and Adjusted Residential Vital rates 2000

SI.	Municipality/	Registere	d vital rates	Adjusted resid	ential vital rates
No.		Births	Deaths	Births	Deaths
1	2	3	4	5	6
1_	Neyyattinkara	12.00	5.63	50.61	7.68
2	Thiruvananthapuram	3.75	2.81	-	17.35
3	Attingal	5.04	2.94	11.11	4.66
4	Kollam	16.45	4.75	19.41	5.41
5	Punalur				
6	Kayamkulam	11.00	4.64	16.24	6.00
7	Mavelikara	12.74	6.74	23.83	8.35
8	Alappuzha	15.13	5.13	17.46	5.46
9	Cherthala	6.56	3.81	8.22	4.29
10	Thiruvalla	5.00	3.00	6.00	4.00
11	Changanacherry	10.72	3.33	25.55	4.81
12	Kottayam	22.5	3.98	38.51	47.76
13	Palai	8.20	6.42	16.16	10.01
14	Vaikom	1.68	2.83	6.36	2.53
15	Muvattupuzha	10.26	4.26	19.12	5.83
16	Kochi Corporation	9.80	1.46	16.22	4.93
17	Aluva	5.10	2.02	14.16	3.43
18	Paravur	0.68	0.25	1.54	0.27
19	Perumbavoor	7.30	3.72	17.81	5.62
20	Irrinjalakuda	5.16	5.09	16.22	6.60
21	Kodungallur	7.24	3.52	10.32	4.20
22	Chalakkudy	9.55	4.13	14.93	4.29
23	Thrissur			17.00	4.25
24	Guruvayoor	1.15	2.42	6.64	3.12
25	Kunnamkulam	8.40	3.30	14.05	4.70
26	Palakkad	20.55	6.03	22.45	7.02
27	Chittoor-				
	Thathamangalam	0.15	5.10	0.93	6.92
28	Thirur				
29	Malappuram	10.17	8.32	12.09	8.01
30	Kozhikode Corp.	51.88	9.08	56.87	8.45
31	Vadakara	0.50	0.12	0.50	0.10
32	Thalasserry	42.2	6.70	45.80	70.40
33	Kannur	0.12	0.91	22.92	3.64
34	Kasaragod	14.32	6.41	15.79	7.08
	1			10.70	

APPENDIX

Method of calculation of adjusted residential vital rates

Residentiala vital rates can broadly be defined as the rate of occurrence of vital events to the normal residents of an area in an year in order to calculate the percentage of under registration the events occurring to 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 to be included.

1.	Percentage of under registration	Number of events occurred to normal residents inside the town but not registered x 100 Number of events occurred to normal residents inside the town registered and not registered
2.	Percentage of events occurred outside the town to normal residents	Number of events occurred to normal residents outside the town registered and unregistered x 100 Number of events enumerated and occurred to normal residents inside and outside and outside the town
3.	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.	Final 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)

679:

