

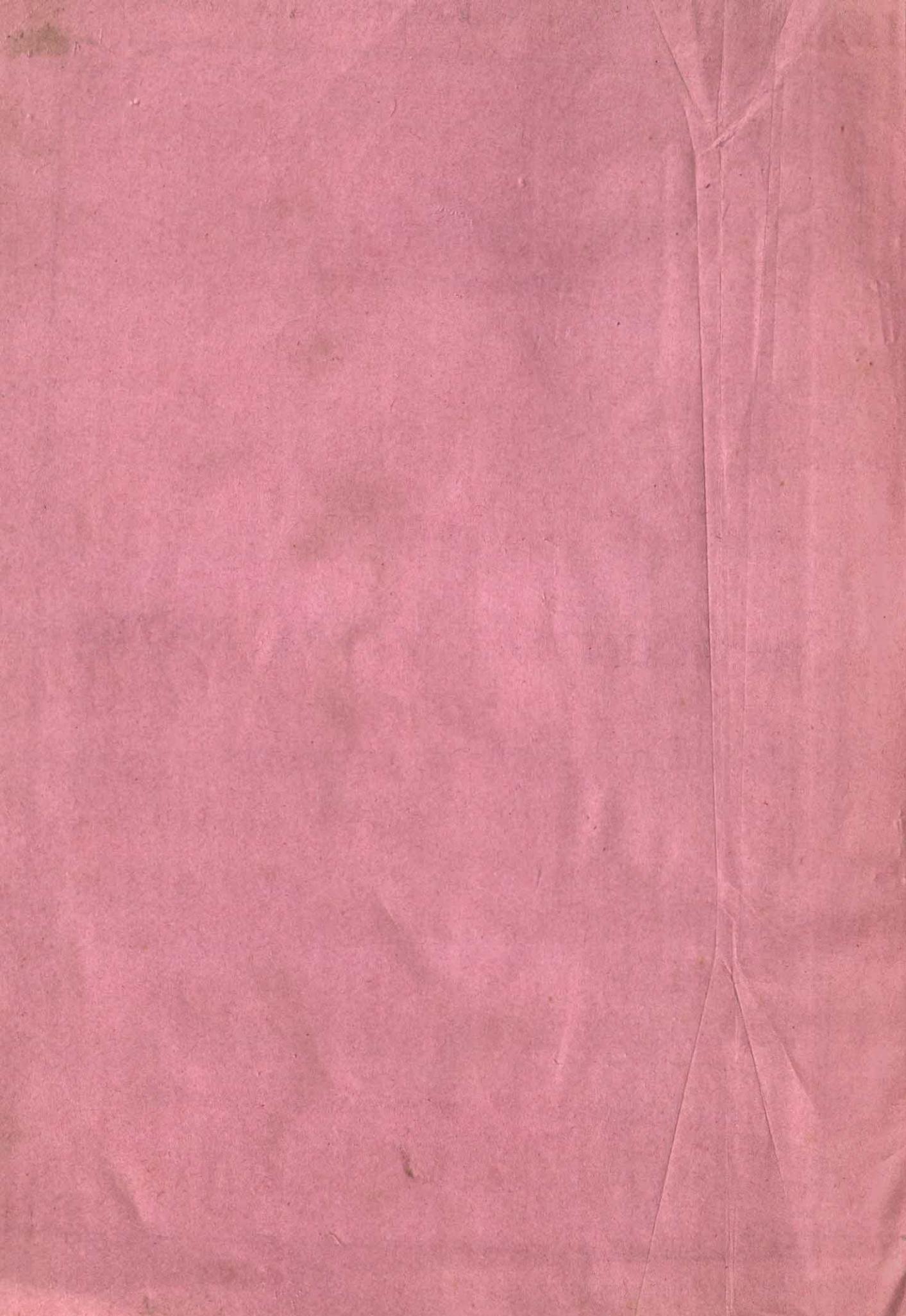
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GOVERNMENT OF KERALA

RESIDENTIAL VITAL RATES 2008

**Directorate of Economics & Statistics
Thiruvananthapuram
2009**



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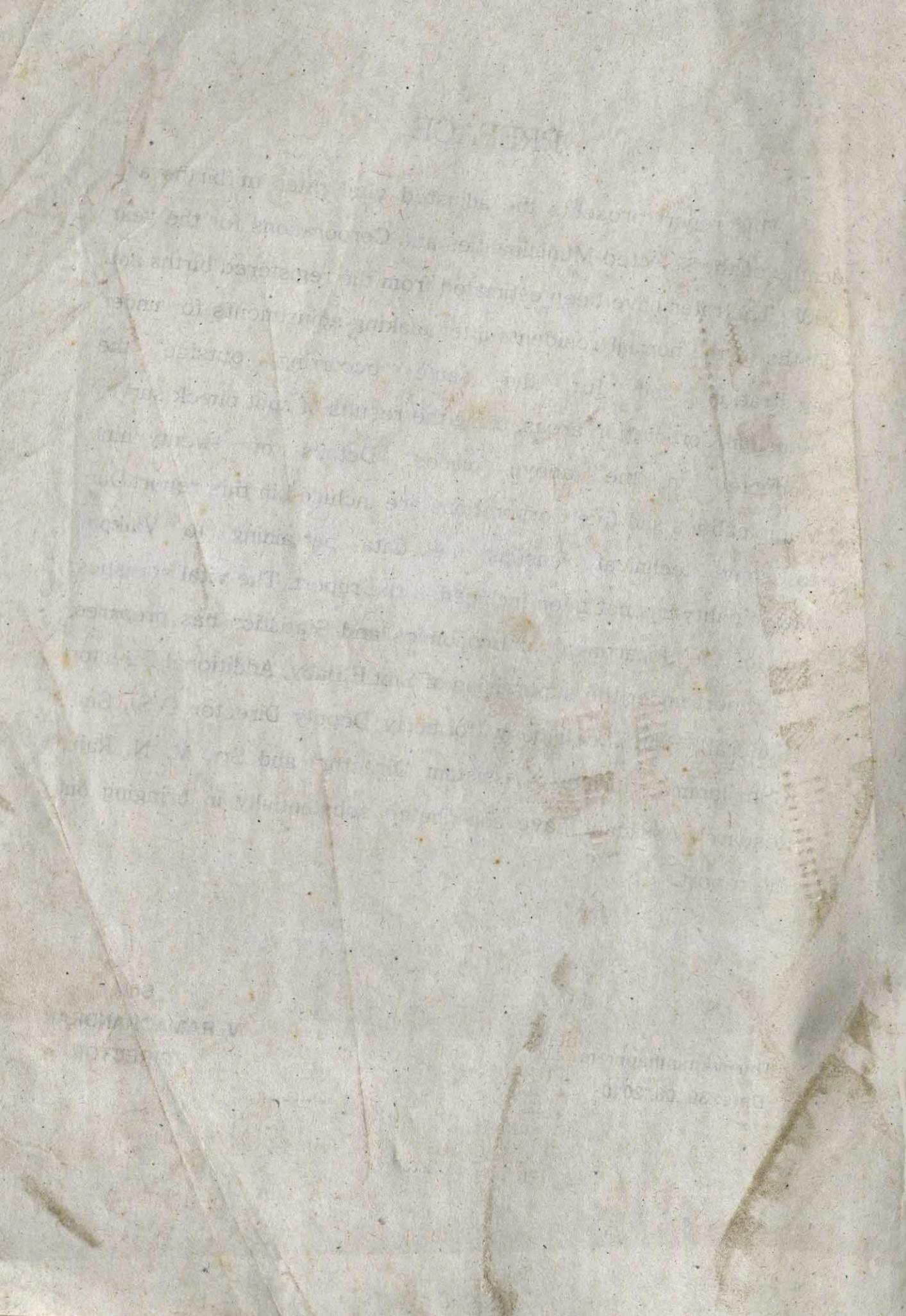


PREFACE

This report presents the adjusted vital rates of births and deaths of the selected Municipalities and Corporations for the year 2008. 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. Due to some technical reasons the data pertaining to Vaikom Municipality has not been included in the report. The vital statistics unit of the Department of Economics and Statistics has prepared the report under the supervision of Smt.E.Baby, Additional Director (General), Smt.S.Leelamony (formerly Deputy Director (VS), Smt. K.Shailamma, (formerly Assistant Director) and Sri. M. N. Raju, Research Assistant have contributed substantially in bringing out the report.

Thiruvananthapuram
Date: 30.08.2010

Sd/-
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ANNUAL RESIDENTIAL VITAL RATES 2008

Introduction

The Civil Registration System was introduced in India under the Births and Deaths Registration Act passed 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 be possible in all cases and as such it does 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 Modern health 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 ignorance of 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 Still births 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 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 | | |
|--------|--------------------------------------|----------------------------|--------------------|-------|
| | | Statistical Assistant Gr.I | 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 | Chalakudy (M) | 1 | 0 | 1 |
| 23 | Thrissur (C) | 1 | 0 | 1 |
| 24 | Guruvayur (M) | 1 | 0 | 1 |
| 25 | Kurinjamkulam (M) | 1 | 0 | 1 |
| 26 | Palakkad (M) | 1 | 0 | 1 |
| 27 | Chittoor -Thathamangalam | 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 field work 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

Table1 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 Guruvayur 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, Kochi Corporation has the maximum number of institutions. The

total number of institutions in Kochi Corporation is 251. It is followed by Thiruvananthapuram Corporation with 191 numbers. In the case of municipalities, the highest number of institution, 78 is recorded from Thalassery municipality. Guruvayur Municipality have only 11 Educational Institutions, Cochin Corporation stood first pertaining to the number of Technical Institutions in Private Sector. More number of technical institutions are situated in Kochi Corporation.

Details of Medical Institutions 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 Tirur has the highest number of government hospitals. Considering the bed strength in government hospitals Thiruvananthapuram Corporation stood first with 7019 numbers followed by Kozhikode Corporation with 4081. In the case of private hospitals the maximum number of hospitals is recorded in Cochin Corporation with 70 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 Kozhikode Corporation with 17. Considering the strength of private dispensaries and other institutions, Alappuzha municipality stood first with 127 followed by Kozhikode Corporation and Vadakara municipality with 107 and 97 respectively.

The number of maternity and child health centers in public sector was highest in Kochi Corporation with 13 followed by 12 in Kozhikode Corporation and 12 in Kollam Corporations. In the private sector such facilities do not exist anywhere else in the entire state except in Thiruvananthapuram, Kollam, 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. 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. 6654 sq. km. followed by Kochi Corporation

with 6528 sq.km. In the case of Municipality, it is the highest in Kannur with 6097/ sq. km. and lowest is in Punalur Municipality with 1386 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. Cochin Corporation has the highest number of private burial grounds i.e. 40 followed by Kollam Corporation with 37. Chittoor Thathamangalam Municipality have no burial grounds both in Government sector and in private sector. More number of burial grounds 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 the respective centers. Kozhikode Corporation stood first with 37877 live births. In the case of municipalities the highest number 14818 was recorded in Palakkad municipality and the lowest 69 in Chittoor Thathamangalam municipality.

The maximum number of still births 475 was registered in Kozhikode Corporation. Thiruvananthapuram Corporation stood in the second place with 418. No still births were reported in Mavelikara, Guruvayur and Kodungalloor municipalities.

In the case of infant deaths, the highest number 962 was recorded in Kozhikkode Corporation out of which 540 are male and 422 are female and infant death corresponds to normal residents were 120. Thiruvananthapuram Corporation stood at the second place with 778 numbers. In the case of Municipalities the highest number of infant deaths 67 was registered in Thalassery municipality. The table reveals that no infant death was registered in Neyyattinkara, Kayamkulam, Guruvayoor and Chittur-Thattamangalam municipalities during the year under report

The number of deaths registered in Thiruvananthapuram Corporation was 12733 Which is seen to be the highest in the state followed by Kozhikkode

Corporation with 10202. In the case of municipality it was the highest in Palakkad municipality with 2320 numbers and the lowest 128 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 Diabetics, and others. During the year under report 20 AIDS cases are reported of which 11 cases from Thiruvananthapuram Corporation, 9 cases from Kozhikode Corporation.

The results of spot check survey of the selected registration units presented in table 8. The data reveals that all live births expect one case in Kottayam municipality were registered in the respective registration units.

In the case of deaths, about 80% of enumerated deaths were registered in the respective registration units. Only 20% of deaths were occurred outside the units. i.e., most of the cases were occurred within the station. Non registration of deaths done in Kochi, Kozhikkode and Thiruvananthapuram Corporations, Neyyattinkara, Punalur, Kayamkulam, Mavelikkara, Kottayam, Changanassry, Muvattupuzha, Chalakkudy, Malappuram and Kannur Municipalities.

Table 9 gives the percentage of under registration and the percentage of outside registration of events in the selected units. With regard to the registration of births, cent percent registration was recorded in all most all centers except in Kottayam municipality. In the case of deaths, cent percent registration was reported from 19 centers and under registration was from the remaining centers. The highest percentage of under registration of death 10.71% was reported from Changanassery and the lowest 0.48% in Thiruvananthapuram Corporation.

From the table, it can be seen that in Chittoor Thathamangalam Municipality percentage of outside registration birth is 100. Lowest percentage of outside registration is reported from Kozhikode Corporation with 8.06%. In the case of deaths, the highest percentage 49.6% was recorded in Attingal municipality followed by Guruvayoor municipality with 47.27% and lowest 0.00% in Thiruvananthauram Corporation and Kasargode Municipality.

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 40.72 is recorded in Palakkad municipality followed by Thalassery Municipality with 27.4 and the lowest in Chitoor Thathamangalam with 0.12. In terms of registered death rate, it is highest in Kochi Corporation (8.40) followed by Vadakara municipality with 7.10 and the lowest in Cherthala Municipality.

The table reveals that, in the case of the adjusted residential vital rates of Births, highest rate 48.25 was reported from Palakkad municipality followed by Thalassery and Neyyattinkara Municipalities with 32.43 and 24.04 respectively. The lowest rate 6.4 was reported from Kodungallur municipality. As regards death, the adjusted residential vital rates was highest (9.47) in Vadakara Municipality followed by Irinjalakuda Municipality with 10.39 and the lowest 0.76 was in North Paravur Municipality.

Conclusion

The survey result reveals that under registration of vital 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 2001 to 2008 (as on 1st July)

| Sl. No. | Municipality/ Corporation | 2001 Census Population | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|------------|-----------------------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| 1 | Neyyattinkara | 69467 | 70362 | 71041 | 71726 | 72418 | 73117 | 73822 | 74534 |
| 2 | Thiruvananthapuram Corporation | 744983 | 754576 | 761852 | 769198 | 776615 | 784103 | 791663 | 79296 |
| 3 | Attingal | 35693 | 36122 | 36447 | 36775 | 37106 | 37440 | 37777 | 38117 |
| 4 | Kollam Corporation | 361560 | 365047 | 367684 | 370340 | 373016 | 375711 | 378425 | 381159 |
| 5 | Punalur | 47235 | 47364 | 47461 | 47558 | 47655 | 47753 | 47851 | 47949 |
| 6 | Kayamkulam | 68585 | 68778 | 68923 | 69068 | 69214 | 69360 | 69506 | 69653 |
| 7 | Mavelikkara | 28439 | 28458 | 28472 | 28486 | 28500 | 28514 | 28528 | 28542 |
| 8 | Alappuzha | 177029 | 177346 | 177584 | 177822 | 178061 | 178300 | 178539 | 178779 |
| 9 | Cherthala | 45105 | 45348 | 45531 | 45715 | 45900 | 46085 | 46271 | 46458 |
| 10 | Thiruvalla | 56837 | 57117 | 57328 | 57540 | 57752 | 57965 | 58179 | 58394 |
| 11 | Changanacherry | 51967 | 52468 | 52847 | 53229 | 53613 | 54000 | 54390 | 54783 |
| 12 | Kottayam | 60728 | 61311 | 61752 | 62196 | 62643 | 63093 | 63547 | 64004 |
| 13 | Palai | 22640 | 22858 | 23023 | 23189 | 23356 | 23524 | 23694 | 23865 |
| 14 | Valkom | 22641 | 22859 | 23024 | 23190 | 23357 | 23525 | 23695 | 23866 |
| 15 | Muvattupuzha | 29246 | 29473 | 29644 | 29816 | 29989 | 30163 | 30338 | 30514 |
| 16 | Kochi Corporation | 595575 | 599835 | 603050 | 606282 | 609532 | 612733 | 616083 | 619385 |
| 17 | Aluva | 24110 | 24420 | 24655 | 24892 | 25132 | 25374 | 25618 | 25865 |

Table 1 Contd.

| Sl. No. | Municipality/ Corporation | 2001 Census Population | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|---------|------------------------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|
| 18 | North Parur | 30059 | 30358 | 30584 | 30812 | 31042 | 31273 | 31506 | 31741 |
| 19 | Perumbavoor | 26547 | 26808 | 27005 | 27204 | 27404 | 27606 | 27809 | 28014 |
| 20 | Irinjalakkuda | 28873 | 29063 | 29206 | 29350 | 29495 | 29640 | 29786 | 29933 |
| 21 | Kodungallur | 33539 | 33857 | 34097 | 34339 | 34583 | 34829 | 35076 | 35325 |
| 22 | Chalakkudy | 48380 | 48840 | 49188 | 49538 | 49891 | 50246 | 50604 | 50964 |
| 23 | Thrissur corpn. | 317526 | 321101 | 323809 | 326539 | 329292 | 332069 | 334869 | 337693 |
| 24 | Guruvayoor | 21186 | 21319 | 21419 | 21520 | 21621 | 21723 | 21825 | 21928 |
| 25 | Kunnamkulam | 51592 | 52173 | 52613 | 53057 | 53504 | 53955 | 54410 | 54869 |
| 26 | Palakkad | 130767 | 131798 | 132577 | 133360 | 134148 | 134940 | 135737 | 136539 |
| 27 | Chittoor- Thathamangalam | 31886 | 32296 | 32607 | 32921 | 33238 | 33558 | 33881 | 34207 |
| 28 | Thirur | 53654 | 54241 | 54685 | 55133 | 55585 | 56040 | 56499 | 56962 |
| 29 | Malappuram | 58491 | 59777 | 60760 | 61759 | 62775 | 63807 | 64856 | 65923 |
| 30 | Kozhikkode Corpn. | 436556 | 438838 | 440557 | 442283 | 444016 | 445756 | 447502 | 449255 |
| 31 | Vadakara | 75847 | 76314 | 76666 | 77020 | 77375 | 77732 | 78091 | 78451 |
| 32 | Thalasserry | 99387 | 100989 | 102207 | 103440 | 104688 | 105951 | 107229 | 108523 |
| 33 | Kannur | 63797 | 64412 | 64877 | 65345 | 65817 | 66292 | 66771 | 67253 |
| 34 | Kasaragod | 52634 | 52978 | 53237 | 53498 | 53760 | 54023 | 54288 | 54554 |

Table-2, Number Of Educational Institutions-2008

| Sl. No | Municipality/ Corporation | Lower Primary School | | | Upper Primary Schools | | | High School/ | | | HSS/VHSC | | | 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 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 1 | Neyyattinkara | 5 | 9 | 14 | 4 | 3 | 7 | 4 | 8 | 12 | - | - | - | 1 | - | 1 | 1 | 2 | 3 | 37 |
| 2 | Thiruvananthapuram Corpn. | 35 | 15 | 50 | 24 | 9 | 33 | 14 | 4 | 18 | 27 | 16 | 43 | 5 | 4 | 9 | 11 | 27 | 38 | 191 |
| 3 | Attingal | 4 | 16 | 20 | 2 | 9 | 11 | 1 | - | 1 | 3 | 3 | 6 | 1 | - | 1 | 4 | 2 | 6 | 45 |
| 4 | Kollam Corpn. | 7 | 34 | 41 | 4 | 12 | 16 | 10 | 13 | 23 | 11 | 15 | 26 | - | 3 | 3 | 9 | 45 | 54 | 163 |
| 5 | Punalur | 7 | 6 | 13 | 2 | 1 | 3 | - | 2 | 2 | 1 | 6 | 7 | - | 1 | 1 | 1 | 2 | 3 | 29 |
| 6 | Kayamkulam | 7 | 9 | 16 | 3 | 5 | 8 | 2 | 6 | 8 | 3 | 6 | 9 | - | 1 | 1 | 1 | 4 | 5 | 47 |
| 7 | Mavelikkara | 2 | 11 | 13 | 2 | 4 | 6 | 2 | 7 | 9 | 3 | 4 | 7 | 2 | 1 | 3 | 1 | 3 | 4 | 43 |
| 8 | Alappuzha | 8 | 14 | 22 | 3 | 3 | 6 | 4 | 11 | 15 | 5 | 6 | 11 | - | 2 | 2 | 1 | 3 | 4 | 60 |
| 9 | Cherthala | 3 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 4 | 2 | 2 | 4 | 1 | 2 | 3 | 1 | - | 1 | 18 |
| 10 | Thiruvalla | 4 | 15 | 19 | 4 | 4 | 8 | 2 | 9 | 11 | - | 6 | 6 | - | 2 | 2 | 1 | 1 | 2 | 48 |
| 11 | Changanassery | 7 | 12 | 19 | 3 | 7 | 10 | 2 | 7 | 9 | 2 | 6 | 8 | - | 5 | 5 | - | 1 | 1 | 52 |
| 12 | Kottayam | 2 | 14 | 16 | 3 | 2 | 5 | 2 | 11 | 13 | 2 | 11 | 13 | - | 4 | 4 | - | - | - | 51 |
| 13 | Palai | 2 | 3 | 5 | - | 3 | 3 | - | - | - | 1 | 4 | 5 | - | 2 | 2 | 1 | 2 | 3 | 18 |
| 14 | Vaikom | | | | | | | | | | | | | | | | | | | |
| 15 | Muvattupuzha | 2 | 5 | 7 | 3 | - | 3 | 3 | 9 | 12 | 3 | 5 | 8 | 1 | 1 | 2 | 1 | - | 1 | 33 |
| 16 | Kochi Corppn | 15 | 57 | 72 | 6 | 24 | 30 | 16 | 34 | 50 | - | - | - | 2 | 8 | 10 | 2 | 87 | 89 | 251 |
| 17 | Aluva | 1 | 8 | 9 | - | 7 | 7 | 1 | 7 | 8 | 2 | 6 | 8 | - | 2 | 2 | - | - | - | 34 |

Table-2 Contd

| Sl. No | Municipality/ Corporation | Primary School | | | Upper Primary Schools | | | High School/ | | | HSS/VHSC | | | 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 | 11 | 1 | 1 | 2 | 2 | 9 | 11 | 2 | 6 | 8 | 1 | - | 1 | - | - | - | 33 |
| 19 | Perubavur | 4 | 7 | 11 | - | 1 | 1 | 3 | 3 | 6 | 3 | 3 | 6 | - | 1 | 1 | - | 1 | 1 | 26 |
| 20 | Irinjalakuda | 2 | 14 | 16 | 2 | 11 | 13 | 2 | 8 | 10 | 4 | 7 | 11 | - | 10 | 10 | 1 | 3 | 4 | 64 |
| 21 | Kodugallur | 3 | 4 | 7 | - | 1 | 1 | 2 | - | 2 | 2 | 2 | 4 | - | 2 | 2 | - | - | - | 16 |
| 22 | Chalakkudy | 3 | 2 | 5 | - | 1 | 1 | 3 | 3 | 6 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 5 | 21 |
| 23 | Thrissur Corpn. | 4 | 37 | 44 | 4 | 9 | 13 | 2 | 14 | 16 | 7 | 18 | 25 | 1 | 5 | 6 | 9 | 22 | 31 | 135 |
| 24 | Guruvayoor | - | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | - | 1 | 1 | - | - | - | 11 |
| 25 | Kunnamkulam | 1 | 11 | 12 | 1 | 3 | 4 | 2 | 6 | 8 | 3 | 2 | 5 | - | 1 | 1 | 1 | 2 | 3 | 33 |
| 26 | Palakkad | 12 | 9 | 21 | 6 | 7 | 13 | 4 | 9 | 13 | 4 | 5 | 9 | 2 | 1 | 3 | 3 | 3 | 6 | 65 |
| | Chittur- | | | | | | | | | | | | | | | | | | | |
| 27 | Thathamangalam | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 2 | 5 | 5 | 1 | 6 | 1 | - | 1 | 1 | - | 1 | 23 |
| 28 | Thirur | 3 | 17 | 20 | 1 | 8 | 9 | - | 1 | 1 | 2 | 4 | 6 | 1 | - | 1 | - | 3 | 3 | 40 |
| 29 | Malappuram | 5 | 9 | 14 | 1 | 3 | 4 | 2 | 7 | 9 | 2 | 1 | 3 | 1 | - | 1 | 2 | 7 | 9 | 40 |
| 30 | Kozhikode-Corpn. | 23 | 32 | 55 | 15 | 23 | 38 | 1 | 4 | 5 | 21 | 24 | 45 | 2 | 4 | 6 | 11 | 17 | 28 | 177 |
| 31 | Vadakara | - | 27 | 27 | - | 11 | 11 | - | 2 | 2 | 3 | 2 | 5 | - | 1 | 1 | 1 | - | 1 | 47 |
| 32 | Thalassery | 4 | 31 | 35 | 3 | 12 | 15 | - | 3 | 3 | 6 | 2 | 8 | - | 13 | 13 | - | 4 | 4 | 78 |
| 33 | Kannur | 4 | 2 | 6 | 6 | 5 | 11 | 4 | 3 | 7 | 4 | 3 | 7 | - | 6 | 6 | 3 | 13 | 16 | 53 |
| 34 | Kasaragod | 6 | 6 | 12 | 4 | 4 | 8 | 3 | 1 | 4 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 2 | 28 |

Table 3 - Number of Hospitals and other Institutions 2008

| Sl. No | Municipality/ Corporation | Hospitals | | | Dispensaries & other Institutions | | | Maternity & Child Health Center | | | |
|-----------|------------------------------|-----------|-----------|-----------|-----------------------------------|-----------|-----------|---------------------------------|-----------|-----------|-----------|
| | | Govt | Private | Total | Govt | Private | Total | Govt | Private | Total | |
| | | Beds % | Beds % | Beds % | Beds % | Beds % | Beds % | Beds % | Beds % | Beds % | Beds % |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | Neyyattinkara | 3 | 436 | 10 | 590 | 13 | 1026 | 1 | - | 12 | - |
| 2 | Thiruvananthapuram corpn. | 19 | 7019 | 53 | 3141 | 72 | 10160 | 21 | - | 57 | - |
| 3 | Attingal | 2 | 100 | 8 | 325 | 10 | 425 | 2 | - | 25 | - |
| 4 | Kollam corpn. | 9 | 1665 | 32 | 2826 | 41 | 4481 | 11 | - | 90 | - |
| 5 | Punalur | 2 | 169 | 12 | 441 | 14 | 610 | 2 | - | 22 | - |
| 6 | Kayankulam | 4 | 280 | 18 | 625 | 22 | 905 | - | - | 37 | - |
| 7 | Mavelikkara | 2 | 267 | 7 | 523 | 9 | 790 | - | - | 10 | - |
| 8 | Alappuzha | 8 | 1780 | 8 | 140 | 16 | 1920 | 3 | - | 127 | - |
| 9 | Cherthala | 3 | 302 | 3 | 493 | 6 | 795 | - | - | 39 | - |
| 10 | Thiruvalla | 3 | 200 | 6 | 1500 | 9 | 1700 | 1 | - | 22 | - |
| 11 | Changanacherry | 2 | 293 | 11 | 345 | 13 | 638 | - | - | 39 | - |
| 12 | Kottayam | 4 | 503 | 11 | 818 | 15 | 1321 | - | - | - | - |
| 13 | Palai | 3 | 341 | 5 | 545 | 8 | 886 | - | - | 38 | - |
| 14 | Valkom | | | | | | | | - | 1 | - |
| 15 | Muvattupuzha | 3 | 310 | 11 | 535 | 14 | 845 | 1 | - | 38 | - |
| 16 | Kochi Corpn | 18 | 2024 | 70 | 6313 | 88 | 8337 | 6 | - | 98 | - |
| 17 | Aluva | 2 | 237 | 12 | 840 | 14 | 1077 | - | - | 6 | - |

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. | Bed s |
| 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 | 8 | 577 | 11 | 807 | 4 | - | 24 | - | 28 | - | 2 | - | - | - | 2 | - |
| 19 | Perumbavoor | 2 | 246 | 7 | 602 | 9 | 848 | 1 | - | 44 | - | 45 | - | 6 | - | - | - | 6 | - |
| 20 | Irrinjalakuda | 2 | 246 | 6 | 137 | 8 | 383 | 2 | - | 15 | - | 17 | - | 1 | - | - | - | 1 | - |
| 21 | Kodungallur | 2 | 176 | 6 | 417 | 8 | 593 | - | - | 32 | - | 32 | - | - | - | - | - | - | - |
| 22 | Chalakudy | 1 | 144 | 8 | 545 | 9 | 689 | 2 | - | 27 | - | 29 | - | 3 | - | - | - | 3 | - |
| 23 | Thrissur corpn. | 6 | 1244 | 21 | 3210 | 27 | 4454 | 8 | - | 25 | - | 33 | - | 4 | - | - | - | 4 | - |
| 24 | Guruvayur | 1 | 35 | 3 | 115 | 4 | 150 | 1 | - | 1 | - | 2 | - | 1 | - | - | - | 1 | - |
| 25 | Kunnamkulam | 1 | 124 | 5 | 675 | 6 | 799 | 3 | - | - | - | - | - | 5 | - | - | - | 5 | - |
| 26 | Palakkad | 4 | 800 | 23 | 1150 | 27 | 1950 | 4 | 0 | 21 | - | 25 | - | 4 | - | - | - | 4 | - |
| 27 | Chittoor- Thathamangalam | 2 | 134 | 1 | 18 | 3 | 152 | 1 | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 28 | Thirur | 9 | 199 | 12 | 380 | 21 | 579 | 2 | - | - | - | 2 | - | - | - | - | - | - | - |
| 29 | Malappuram | 4 | 187 | 5 | 486 | 9 | 673 | 1 | - | 27 | - | 28 | - | - | - | - | - | - | - |
| 30 | Kozhikode Corpn. | 9 | 4081 | 39 | 2417 | 48 | 6498 | 17 | - | 107 | - | 124 | - | 12 | - | - | - | 12 | - |
| 31 | Vadakara | 2 | 240 | 14 | 520 | 16 | 760 | 1 | - | 97 | - | 98 | - | 1 | - | - | - | 1 | - |
| 32 | Thalasserry | 1 | 541 | 16 | 1018 | 17 | 1559 | 3 | - | 14 | - | 17 | - | - | - | - | - | - | - |
| 33 | Kannur | 2 | 129 | 29 | 773 | 31 | 902 | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| 34 | Kasaragod | 2 | 286 | 11 | 546 | 13 | 832 | 1 | - | 22 | - | 23 | - | - | - | - | - | - | - |

Table 4- Registration units with Area and Population 2008

| 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 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Neyyattinkara | 1 | 20.05 | 20.05 | 74534 | 74534 | 3717 |
| 2 | Thiruvananthapuram Corpn. | 1 | 141.74 | 141.74 | 799296 | 799296 | 5639 |
| 3 | Attingal | 1 | 16.87 | 16.87 | 38117 | 38117 | 2259 |
| 4 | Kollam Corporation | 1 | 57.28 | 57.28 | 381159 | 381159 | 6654 |
| 5 | Punalur | 1 | 34.60 | 34.60 | 47949 | 47949 | 1386 |
| 6 | Kayamkulam | 1 | 21.79 | 21.79 | 69653 | 69653 | 3197 |
| 7 | Mavelikara | 1 | 12.65 | 12.65 | 28542 | 28542 | 2256 |
| 8 | Alappuzha | 1 | 46.77 | 46.77 | 178779 | 178779 | 3823 |
| 9 | Cherthala | 1 | 16.18 | 16.18 | 46458 | 46458 | 2871 |
| 10 | Thiruvalla | 1 | 27.52 | 27.52 | 58394 | 58394 | 2122 |
| 11 | Changanacherry | 1 | 13.5 | 13.5 | 54783 | 54783 | 4058 |
| 12 | Kottayam | 1 | 16.45 | 16.45 | 64004 | 64004 | 3892 |
| 13 | Palai | 1 | 16.06 | 16.06 | 23865 | 23865 | 1486 |
| 14 | Vaikom | 1 | - | - | - | - | - |
| 15 | Muvattupuzha | 1 | 13.18 | 13.18 | 30514 | 30514 | 2315 |
| 16 | Kochi Corporation | 1 | 94.88 | 94.88 | 619385 | 619385 | 6528 |
| 17 | Aluva | 1 | 7.18 | 7.18 | 25865 | 25865 | 3602 |
| 18 | North Parur | 1 | 9.02 | 9.02 | 31741 | 31741 | 3519 |
| 19 | Perumbavoor | 1 | 13.61 | 13.61 | 28014 | 28014 | 2058 |
| 20 | Irrinjalakuda | 1 | 11.24 | 11.24 | 29933 | 29933 | 2663 |
| 21 | Kodungallur | 1 | 17.4 | 17.4 | 35325 | 35325 | 2030 |
| 22 | Chalakudy | 1 | 25.23 | 25.23 | 50964 | 50964 | 2020 |
| 23 | Thrissur Corp | 1 | 101.42 | 101.42 | 337693 | 337693 | 3329 |
| 24 | Guruvayoor | 1 | 7.48 | 7.48 | 21928 | 21928 | 2933 |
| 25 | Kunnamkulam | 1 | 34.18 | 34.18 | 54869 | 54869 | 1605 |
| 26 | Palakkad | 1 | 26.60 | 26.60 | 136539 | 136539 | 5133 |
| 27 | Chittoor- Thathamangalam | 1 | 14.71 | 14.71 | 34207 | 34207 | 2325 |
| 28 | Thirur | 1 | 16.55 | 16.55 | 56962 | 56962 | 3442 |
| 29 | Malappuram | 1 | 33.69 | 33.69 | 65923 | 65923 | 1957 |
| 30 | Kozhikode Corp. | 1 | 84.2 | 84.2 | 449255 | 449255 | 5336 |
| 31 | Vadakara | 1 | 21.34 | 21.34 | 78451 | 78451 | 3676 |
| 32 | Thalasserry | 1 | 23.98 | 23.98 | 108523 | 108523 | 4526 |
| 33 | Kannur | 1 | 11.03 | 11.03 | 67253 | 67253 | 6097 |
| 34 | Kasaragod | 1 | 16.69 | 16.69 | 54554 | 54554 | 3269 |

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 | |
|-----------|------------------------------|----------------|---------|-------|-------------------|---------|-------|---------------------------------------|-----------------|
| | | Mun/ Corp | Private | Total | Mun/ 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 | Attingal | - | 5 | 5 | 1 | - | 1 | 24 | 1 |
| 4 | Kollam Corpн | 2 | 37 | 39 | 2 | - | 2 | 52 | 1 |
| 5 | Punalur | 1 | 20 | 21 | 1 | - | 1 | 32 | 1 |
| 6 | Kayamkulam | 1 | 14 | 15 | 1 | 2 | 3 | 41 | 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 | 1 | 1 | 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 | - | - | - | - | - | - | - | - |
| 15 | Muvattupuzha | - | 8 | 8 | 1 | - | 1 | 25 | 1 |
| 16 | Kochi Corporation | 8 | 40 | 48 | 5 | 11 | 16 | 71 | 2 |
| 17 | Aluva | 1 | 7 | 8 | - | 3 | 3 | 21 | 1 |
| 18 | North Parur | 1 | 5 | 6 | 1 | 1 | 2 | 26 | 1 |
| 19 | Perumbavoor | 1 | 8 | 9 | - | 1 | 1 | 21 | 1 |
| 20 | Irrinjalakuda | 1 | 5 | 6 | - | - | - | 25 | 1 |
| 21 | Kodungallur | - | 2 | 2 | 1 | 1 | 2 | 24 | 1 |
| 22 | Chalakudy | 1 | 13 | 14 | - | - | - | 33 | 1 |
| 23 | Thrissur Corpн | 5 | 2 | 7 | 1 | - | 1 | 52 | 6 |
| 24 | Guruvayoor | 1 | 4 | 5 | 2 | 1 | 3 | 15 | 1 |
| 25 | Kunnamkulam | 2 | 11 | 13 | 1 | - | 1 | 31 | 1 |
| 26 | Palakkad | 4 | 7 | 11 | 3 | 1 | 4 | 50 | 1 |
| 27 | Chittoor- Thathamangalam | - | - | - | 3 | - | 3 | 24 | 1 |
| 28 | Thirur | 2 | - | 2 | - | - | - | 28 | 1 |
| 29 | Malappuram | 1 | 10 | 11 | 1 | 1 | 2 | 24 | 1 |
| 30 | Kozhikode Corpн. | 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 | 2 | - | 2 | 39 | 1 |
| 34 | Kasaragod | - | 12 | 12 | 2 | 1 | 3 | 32 | 1 |

Table 6 - Vital events registered during the year 2008

| 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 | 449 | 448 | 897 | 154 | 34.29 | 169 | 37.72 | 323 | 36 | 2 | 2 | 4 | 1 | 2 | 3 | |
| 2 | Thiruvananthapuram Corpn. | 17652 | 16877 | 34529 | 3291 | 18.64 | 3038 | 18.00 | 6329 | 18.32 | 228 | 190 | 418 | - | - | - | |
| 3 | Attingal | 829 | 820 | 1649 | 147 | 17.73 | 106 | 12.92 | 253 | 15.34 | 4 | - | 4 | - | - | - | |
| 4 | Kollam Corpn | 6753 | 6435 | 13188 | 1684 | 24.93 | 1569 | 24.38 | 3253 | 24.67 | 14 | 14 | 28 | 7 | 6 | 13 | |
| 5 | Punalur | 1410 | 1327 | 2737 | 218 | 15.46 | 206 | 15.52 | 424 | 15.49 | 6 | - | 6 | 2 | 1 | 3 | |
| 6 | Kayamkulam | 2220 | 2093 | 4313 | 415 | 18.69 | 387 | 18.49 | 802 | 18.59 | 1 | 1 | 2 | 1 | 1 | 2 | |
| 7 | Mavelikara | 1164 | 1196 | 2360 | 72 | 6.18 | 77 | 6.43 | 149 | 6.31 | - | - | - | - | - | - | |
| 8 | Alappuzha | 4583 | 4296 | 8879 | 1235 | 26.94 | 992 | 23.09 | 2227 | 25.08 | 55 | 64 | 119 | 19 | 21 | 40 | |
| 9 | Cherthala | 1939 | 1768 | 3707 | 148 | 7.63 | 161 | 9.10 | 309 | 8.33 | 2 | 1 | 3 | 1 | - | 1 | |
| 10 | Thiruvalla | 1923 | 1913 | 3836 | 133 | 6.91 | 189 | 9.87 | 322 | 8.39 | 18 | 12 | 30 | 2 | 1 | 3 | |
| 11 | Changanacherry | 1174 | 1144 | 2318 | 202 | 17.20 | 196 | 17.13 | 398 | 17.16 | 1 | 1 | 2 | - | - | - | |
| 12 | Kottayam | 1520 | 1552 | 3072 | 148 | 9.73 | 154 | 9.92 | 302 | 9.83 | 8 | 5 | 13 | 1 | - | - | |
| 13 | Palai | 1171 | 1106 | 2277 | 53 | 4.5 | 45 | 4.06 | 98 | 4.30 | 3 | 3 | 6 | - | - | - | |
| 14 | Vaikom | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 15 | Muvattupuzha | 1822 | 1679 | 3501 | 120 | 6.59 | 166 | 9.89 | 286 | 8.17 | 2 | 2 | 4 | - | - | - | |
| 16 | Kochi Corporation | 8722 | 8398 | 17120 | 5494 | 62.99 | 5123 | 61.00 | 10617 | 62.01 | 70 | 57 | 127 | 32 | 27 | 59 | |
| 17 | Aluva | 2852 | 2833 | 5685 | 116 | 4.67 | 108 | 3.81 | 224 | 3.94 | 4 | 7 | 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 | 1477 | 1464 | 2941 | 98 | 6.63 | 83 | 5.67 | 181 | 6.15 | 3 | 4 | 7 | - | 1 | 1 | |
| 19 | Perumbavoor | 1243 | 1163 | 2406 | 96 | 7.72 | 72 | 6.19 | 168 | 6.98 | 2 | 1 | 3 | - | - | - | |
| 20 | Irrinjalakuda | 581 | 543 | 1124 | 40 | 6.88 | 31 | 5.71 | 71 | 6.32 | 3 | 6 | 9 | - | - | - | |
| 21 | Kodungallur | 2971 | 2971 | 5730 | 89 | 2.99 | 79 | 2.66 | 168 | 2.93 | - | - | - | - | - | - | |
| 22 | Guruvayour | 106 | 62 | 168 | 7 | 6.60 | 8 | 12.90 | 15 | 8.93 | - | - | - | - | - | - | |
| 23 | Thrissur Corp | 9317 | 9994 | 19311 | 1112 | 11.93 | 1205 | 12.05 | 2317 | 11.99 | 98 | 25 | 123 | 9 | 6 | 15 | |
| 24 | Chalakkudy | 1966 | 1908 | 3874 | 231 | 11.75 | 226 | 11.84 | 457 | 11.80 | 7 | 5 | 12 | 1 | 1 | 2 | |
| 25 | Kunnamkulam | 2017 | 2010 | 4027 | 181 | 8.97 | 202 | 10.04 | 383 | 9.51 | 14 | 12 | 26 | - | - | - | |
| 26 | Palakkad | 7528 | 7290 | 14818 | 2947 | 39.14 | 2613 | 35.84 | 5560 | 37.52 | 25 | 25 | 50 | 13 | 11 | 24 | |
| 27 | Chittoor- Thathamangalam | 30 | 39 | 69 | 1 | 3.33 | 3 | 7.69 | 4 | 5.79 | 1 | - | 1 | - | - | - | |
| 28 | Thirur | 3715 | 3696 | 7411 | 282 | 7.59 | 266 | 7.19 | 548 | 7.39 | 18 | 9 | 27 | 1 | 1 | 2 | |
| 29 | Malappuram | 3883 | 3700 | 7583 | 328 | 8.44 | 311 | 8.40 | 639 | 8.43 | 26 | 16 | 42 | - | - | - | |
| 30 | Kozhikode Corporation | 19257 | 18620 | 37877 | 2278 | 11.83 | 2560 | 13.75 | 4838 | 12.77 | 258 | 217 | 475 | 28 | 23 | 51 | |
| 31 | Vadakara | 1099 | 1209 | 2308 | 246 | 22.38 | 237 | 19.60 | 483 | 20.93 | 6 | 1 | 7 | 1 | 3 | 4 | |
| 32 | Thalasserry | 6690 | 6316 | 13006 | 1517 | 22.68 | 1456 | 23.05 | 2973 | 22.85 | 49 | 39 | 88 | 3 | 6 | 9 | |
| 33 | Kannur | 3336 | 3200 | 6536 | 318 | 9.53 | 368 | 11.5 | 686 | 10.49 | 17 | 17 | 34 | 2 | 1 | 3 | |
| 34 | Kasaragod | 5013 | 4728 | 9741 | 482 | 9.62 | 425 | 8.99 | 907 | 9.31 | 30 | 40 | 70 | 7 | 9 | 16 | |

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 | Male | Female |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| 1 | Neyyattinkara | - | - | - | - | - | - | 370 | 252 | 622 | 215 | 189 | 404 | | |
| 2 | Thiruvanantha- Puram Corp. | 445 | 333 | 778 | - | - | - | 7130 | 4359 | 11489 | 1598 | 1044 | 2642 | | |
| 3 | Attingal | - | 1 | 1 | - | - | - | 139 | 106 | 245 | 64 | 47 | 111 | | |
| 4 | Kollam Corp | 32 | 34 | 66 | - | - | - | 1825 | 1284 | 3109 | 571 | 430 | 1001 | | |
| 5 | Punalur | 5 | 1 | 6 | - | 1 | 1 | 331 | 249 | 580 | 164 | 149 | 313 | | |
| 6 | Kayamkulam | - | - | - | - | - | - | 252 | 156 | 408 | 183 | 105 | 288 | | |
| 7 | Mavelikara | 3 | 5 | 8 | 1 | - | 1 | 392 | 262 | 654 | 89 | 72 | 161 | | |
| 8 | Alappuzha | 31 | 25 | 56 | 6 | 4 | 10 | 801 | 601 | 1402 | 405 | 374 | 779 | | |
| 9 | Cherthala | 3 | 2 | 5 | - | - | - | 387 | 284 | 674 | 51 | 58 | 109 | | |
| 10 | Thiruvalla | 24 | 13 | 37 | - | 2 | 2 | 947 | 534 | 1481 | 218 | 151 | 369 | | |
| 11 | Changan- cherry | 1 | 1 | 2 | - | - | - | 200 | 150 | 350 | 103 | 94 | 197 | | |
| 12 | Kottayam | 21 | 12 | 33 | 1 | 1 | 2 | 250 | 393 | 643 | 103 | 175 | 278 | | |
| 13 | Palai | 2 | 1 | 3 | 1 | - | 1 | 238 | 156 | 394 | 64 | 44 | 108 | | |
| 14 | Vaikom | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 15 | Muvattupuzha | 1 | 2 | 3 | 1 | - | 1 | 271 | 234 | 505 | 71 | 62 | 133 | | |
| 16 | Kochi Corporation | 193 | 107 | 300 | 66 | 38 | 104 | 5129 | 3097 | 8226 | 3334 | 1765 | 5099 | | |
| 17 | Aluva | 9 | 6 | 15 | - | - | - | 366 | 242 | 608 | 98 | 62 | 160 | | |

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 | 2 | 1 | 3 | - | - | - | 263 | 186 | 449 | 98 | 73 | 171 | | |
| 19 | Perumbavoor | 3 | 1 | 4 | - | - | - | 276 | 172 | 448 | 82 | 63 | 145 | | |
| 20 | Irrinjalakuda | 1 | - | 1 | - | - | - | 167 | 118 | 285 | 89 | 82 | 171 | | |
| 21 | Kodungallur | 10 | 8 | 18 | 1 | 1 | 2 | 305 | 218 | 523 | 46 | 38 | 84 | | |
| 22 | Chalakudy | 3 | 9 | 12 | 1 | - | 1 | 399 | 262 | 661 | 155 | 116 | 271 | | |
| 23 | Thrissur Corpн | - | 12 | 12 | - | - | - | 2312 | 2939 | 5251 | 615 | 859 | 1474 | | |
| 24 | Guruvayoor | - | - | - | - | - | - | 66 | 62 | 128 | 55 | 51 | 106 | | |
| 25 | Kunnamkulam | 4 | 3 | 7 | - | - | - | 337 | 272 | 609 | 168 | 159 | 327 | | |
| 26 | Palakkad | 25 | 25 | 50 | 16 | 14 | 30 | 1367 | 900 | 2267 | 528 | 241 | 769 | | |
| 27 | Chittoor- Thathamangal am | - | - | - | - | - | - | 174 | 112 | 286 | 140 | 92 | 232 | | |
| 28 | Thirur | 9 | 7 | 16 | - | - | - | 327 | 219 | 546 | 83 | 65 | 148 | | |
| 29 | Malappuram | 10 | 15 | 25 | 2 | - | 2 | 255 | 178 | 433 | 86 | 72 | 158 | | |
| 30 | Kozhikode Corporation. | 540 | 422 | 962 | 56 | 64 | 120 | 5785 | 3404 | 9189 | 998 | 899 | 1897 | | |
| 31 | Vadakara | 5 | 3 | 8 | 3 | 2 | 5 | 450 | 610 | 1060 | 249 | 301 | 550 | | |
| 32 | Thalasserry | 37 | 30 | 67 | 3 | 3 | 6 | 1146 | 820 | 1966 | 359 | 304 | 663 | | |
| 33 | Kannur | 23 | 26 | 49 | 2 | 1 | 3 | 410 | 322 | 732 | 155 | 147 | 302 | | |
| 34 | Kasaragod | 16 | 18 | 34 | 4 | 3 | 7 | 486 | 355 | 841 | 154 | 98 | 252 | | |

Table 6 -Contd

| Sl.No. | Municipality/ Corporation | Total Death | | | | | | | | | | | |
|--------|------------------------------|--------------|--------|-------|----------------------------|-------|--------|-------|-------|-------|--|--|--|
| | | Total Events | | | Events to normal residents | | | | | | | | |
| | | Male | Female | Total | Male | % | Female | % | Total | % | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | |
| 1 | Neyyattinkara | 372 | 254 | 626 | 216 | 58.06 | 191 | 75.20 | 407 | 65.02 | | | |
| 2 | Thiruvananthapuram Corpn. | 7803 | 4930 | 12733 | 1598 | 20.47 | 1044 | 21.18 | 2642 | 20.75 | | | |
| 3 | Attingal | 139 | 109 | 248 | 64 | 46.04 | 47 | 43.12 | 111 | 44.76 | | | |
| 4 | Kollam Corpn | 1857 | 1328 | 3185 | 571 | 30.75 | 431 | 32.45 | 1002 | 31.46 | | | |
| 5 | Punalur | 336 | 250 | 586 | 164 | 48.80 | 150 | 60.00 | 314 | 53.58 | | | |
| 6 | Kayamkulam | 252 | 156 | 408 | 183 | 72.62 | 105 | 67.31 | 288 | 70.59 | | | |
| 7 | Mavelikara | 395 | 270 | 665 | 90 | 22.78 | 72 | 26.67 | 162 | 24.36 | | | |
| 8 | Alappuzha | 832 | 626 | 1458 | 411 | 49.40 | 378 | 60.38 | 789 | 54.12 | | | |
| 9 | Cherthala | 392 | 289 | 681 | 51 | 13.01 | 58 | 20.07 | 109 | 16.01 | | | |
| 10 | Thiruvalla | 971 | 551 | 1522 | 218 | 22.45 | 154 | 27.95 | 372 | 24.44 | | | |
| 11 | Changanacherry | 201 | 153 | 354 | 103 | 51.24 | 94 | 61.43 | 197 | 55.65 | | | |
| 12 | Kottayam | 271 | 406 | 677 | 104 | 38.38 | 176 | 43.35 | 280 | 41.36 | | | |
| 13 | Palai | 240 | 157 | 397 | 65 | 27.08 | 44 | 28.03 | 109 | 27.46 | | | |
| 14 | Vaikom | - | - | - | - | - | - | - | - | - | | | |
| 15 | Muvattupuzha | 272 | 236 | 509 | 71 | 26.10 | 62 | 26.27 | 133 | 26.13 | | | |
| 16 | Kochi Corporation | 5322 | 3226 | 8548 | 3400 | 63.89 | 1803 | 55.89 | 5203 | 66.87 | | | |
| 17 | Aluva | 375 | 249 | 624 | 98 | 26.13 | 62 | 22.90 | 160 | 25.64 | | | |

| Sl.No. | Municipality/ Corporation | Total Death | | | | | | | | | |
|--------|------------------------------|--------------|--------|-------|----------------------------|-------|--------|-------|-------|-------|--|
| | | Total Events | | | Events to normal residents | | | | | | |
| | | Male | Female | Total | Male | % | Female | % | Total | % | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 18 | North Parur | 265 | 187 | 452 | 98 | 39.98 | 73 | 39.04 | 171 | 37.83 | |
| 19 | Perumbavoor | 279 | 173 | 452 | 82 | 29.39 | 63 | 36.41 | 145 | 32.07 | |
| 20 | Irrinjalakuda | 168 | 118 | 286 | 89 | 31.90 | 82 | 69.49 | 171 | 59.79 | |
| 21 | Kodungallur | 315 | 226 | 541 | 47 | 14.92 | 39 | 17.26 | 86 | 15.90 | |
| 22 | Chalakudy | 402 | 271 | 673 | 156 | 38.80 | 116 | 42.80 | 272 | 40.41 | |
| 23 | Thrissur Corpн | 2312 | 2939 | 5251 | 615 | 26.60 | 859 | 29.23 | 1474 | 28.07 | |
| 24 | Guruvayoor | 66 | 62 | 128 | 55 | 83.33 | 51 | 82.25 | 106 | 82.81 | |
| 25 | Kunnamkulam | 341 | 275 | 616 | 168 | 49.27 | 159 | 57.82 | 327 | 53.08 | |
| 26 | Palakkad | 1392 | 928 | 2320 | 544 | 39.08 | 257 | 27.69 | 801 | 34.52 | |
| 27 | Chittoor- thathamangalam | 174 | 112 | 286 | 140 | 80.46 | 92 | 82.14 | 232 | 81.12 | |
| 28 | Thirur | 336 | 233 | 569 | 83 | 24.70 | 65 | 27.90 | 148 | 26.01 | |
| 29 | Malappuram | 265 | 193 | 458 | 88 | 33.20 | 72 | 37.31 | 160 | 34.93 | |
| 30 | Kozhikode Corporation | 6325 | 3877 | 10202 | 1054 | 16.66 | 971 | 25.04 | 2025 | 19.84 | |
| 31 | Vadakara | 455 | 618 | 1073 | 252 | 55.38 | 305 | 49.35 | 557 | 51.91 | |
| 32 | Thalasserry | 1183 | 855 | 2038 | 362 | 30.60 | 307 | 35.91 | 669 | 32.83 | |
| 33 | Kannur | 433 | 353 | 786 | 157 | 36.26 | 148 | 41.93 | 305 | 38.80 | |
| 34 | Kasaragod | 505 | 377 | 882 | 158 | 31.29 | 101 | 26.80 | 259 | 29.37 | |

Table 7 - Deaths according to causes 2008

| Sl. No | Municipality/ Corporation | Suicide | Accident | Pneumonia | B.P | T.B | Aids | Diabetics | Hydrophobia / Rabies | Pulmonary Disease | Other Internal case | Dysentery & Diarrhea | Respiratory Diseases | Others |
|--------|------------------------------|---------|----------|-----------|-----|-----|------|-----------|-------------------------|----------------------|------------------------|-------------------------|-------------------------|--------|
| 1 | Neyyattinkara | 6 | 2 | - | 8 | 3 | - | 9 | - | - | - | - | 17 | 44 |
| 2 | Thiruvananthapuram | 25 | 260 | 377 | 262 | 168 | 11 | 521 | 11 | - | 1466 | 1 | 629 | 2036 |
| 3 | Attingal | 15 | 7 | 4 | - | - | - | 2 | - | 7 | - | - | - | 94 |
| 4 | Kollam Corp | 63 | 105 | 11 | 82 | - | - | 39 | - | - | 533 | - | 214 | 44 |
| 5 | Punalur | 30 | 18 | 1 | 23 | 2 | - | 12 | - | - | 17 | - | 14 | 27 |
| 6 | Kayamkulam | 5 | 7 | 2 | 10 | - | - | 14 | - | - | - | - | 23 | 48 |
| 7 | Mavelikara | 17 | 8 | 6 | 2 | 2 | - | 4 | - | - | 1 | - | 8 | 85 |
| 8 | Alappuzha | - | - | - | - | - | - | - | 7 | 124 | - | - | - | 1136 |
| 9 | Cherthala | 3 | 4 | 2 | 3 | 4 | - | 1 | 3 | 2 | - | 2 | - | .44 |
| 10 | Thiruvalla | 7 | 45 | 12 | 53 | - | - | 83 | - | - | - | - | 50 | 901 |
| 11 | Changanacherry | 6 | 11 | - | - | - | - | 4 | - | 136 | - | - | 16 | 81 |
| 12 | Kottayam | - | - | - | - | - | - | 42 | - | 2 | - | - | - | 601 |
| 13 | Palai | - | 5 | - | 1 | 1 | - | 18 | - | - | - | - | 3 | 266 |
| 14 | Vaikom | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | Muvattupuzha | - | - | - | - | - | - | - | - | - | - | - | - | 431 |
| 16 | Kochi Corpora. | - | 313 | - | - | 102 | - | 598 | - | - | - | 342 | 734 | 160 |
| 17 | Aluva | - | - | 4 | 7 | 2 | - | 10 | - | - | - | - | 9 | 185 |

Table 7 Continued.....

| Sl.No | Municipality/ Corporation | Suicide | Accident | Pneumonia | B.P | T.B | Aids | Diabetics | Hydrophobia / Rabies | Pulmonary Disease | Other Internal ccase | Dysentery & Diarrhea | Respiratory Diseases | Others |
|-------|------------------------------|---------|----------|-----------|-----|-----|------|-----------|-------------------------|----------------------|-------------------------|-------------------------|-------------------------|--------|
| 18 | North Parur | 11 | 3 | - | - | - | - | - | - | - | - | - | 80 | 85 |
| 19 | Perumbavoor | - | - | - | - | - | - | - | - | 73 | - | - | - | 223 |
| 20 | Irrinjalakuda | - | - | - | - | - | - | - | - | - | 20 | - | - | 136 |
| 21 | Kodungallur | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | Chalakudy | 29 | 24 | 4 | - | - | - | - | - | 19 | - | 11 | 48 | 390 |
| 23 | Thrissur Corp | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24 | Guruvayoor | 2 | 1 | - | 3 | - | - | 5 | - | - | 3 | - | 6 | - |
| 25 | Kunnamkulam | - | 20 | - | - | 2 | - | 8 | - | - | 20 | - | 90 | 110 |
| 26 | Palakkad Chittoor- | - | - | - | - | - | - | - | - | - | - | 4 | - | 1774 |
| 27 | Thathamangalam | 9 | 4 | - | 10 | 4 | - | - | 33 | 5 | - | - | 29 | 134 |
| 28 | Thirur | - | 10 | - | 16 | 1 | - | 10 | - | 87 | - | - | - | 115 |
| 29 | Malappuram | - | - | 3 | 16 | - | - | 2 | - | - | 9 | - | 13 | 256 |
| 30 | Kozhikode Corp | 101 | 329 | 52 | 86 | 6 | 9 | 108 | - | - | 11 | 1 | 617 | 6124 |
| 31 | Vadakara | - | - | - | - | - | - | - | - | - | - | - | - | 301 |
| 32 | Thalasserry | - | - | - | - | - | - | - | - | - | - | - | - | 908 |
| 33 | Kannur | - | - | - | - | - | - | - | - | - | - | - | - | 354 |
| 34 | Kasaragod | - | - | - | - | 29 | - | - | 58 | - | 19 | - | - | 52 |

Table 7 Continued.....

| Sl.No | Municipality/ Corporation | Liver Desease | Kidney Diseases | Cancer | Malaria | Heart Failure | Senility | Fever | Jaundice | Paralysis | Neuro | Total |
|-------|------------------------------|------------------|--------------------|--------|---------|------------------|----------|-------|----------|-----------|-------|-------|
| 1 | Neyyattinkkara | 3 | 5 | 9 | - | 32 | - | 6 | 2 | - | 4 | 150 |
| 2 | Thiruvananthapuram | 418 | 542 | 1284 | - | 2777 | 1007 | - | 30 | 169 | - | 11994 |
| 3 | Attingal | - | - | 6 | - | 109 | - | - | 2 | - | - | 246 |
| 4 | Kollam Corpn | 79 | 42 | 131 | - | 1245 | 487 | - | 5 | 38 | - | 3118 |
| 5 | Punalur | 9 | 5 | 21 | - | 267 | 137 | - | - | 2 | - | 585 |
| 6 | Kayamkulam | 8 | 2 | 24 | - | 206 | 56 | - | - | 2 | - | 407 |
| 7 | Mavelikara | 6 | 2 | 27 | - | 421 | 68 | - | - | 5 | - | 662 |
| 8 | Alappuzha | - | - | 191 | - | - | - | - | - | - | - | 1458 |
| 9 | Cherthala | - | - | 14 | - | 25 | - | 5 | - | - | - | 109 |
| 10 | Thiruvalla | 17 | - | 22 | - | 282 | - | - | - | - | - | 1472 |
| 11 | Changanacherry | - | - | 16 | - | - | 84 | - | - | - | - | 354 |
| 12 | Kottayam | - | - | 30 | - | - | - | - | 1 | - | - | 676 |
| 13 | Palai | 2 | - | 3 | - | 94 | - | 3 | - | - | - | 396 |
| 14 | Vaikom | - | - | - | - | - | - | - | - | - | - | - |
| 15 | Muvattupuzha | - | - | - | - | - | - | - | - | - | - | 509 |
| 16 | Kochi Corpora. | 468 | 230 | 687 | - | 1967 | - | - | - | 35 | - | 5636 |
| 17 | Aluva | 7 | - | 160 | - | 192 | 45 | - | 1 | 1 | - | 623 |

Table 7 Continued.....

| Sl.No | Municipality/ Corporation | Liver Desease | Kidney Diseases | Cancer | Malaria | Heart Failure | Senility | Fever | Jaundice | Paralysis | Neuro | Total |
|-------|------------------------------|------------------|--------------------|--------|---------|------------------|----------|-------|----------|-----------|-------|-------|
| 18 | North Parur | 9 | 5 | 25 | | 226 | | | | | | 444 |
| 19 | Perumbavoor | - | - | 16 | | 140 | | | | | | 452 |
| 20 | Irinjalakuda | - | - | 12 | | 118 | | | | | | 286 |
| 21 | Kodungallur | - | - | - | | - | | | | | | 0 |
| 22 | Chalakudy | - | - | 20 | | 128 | | | | | | 623 |
| 23 | Thrissur Corpн | - | - | - | | 640 | | | | | | 640 |
| 24 | Guruvayoor | 2 | - | 8 | - | 8 | - | - | - | 10 | - | 48 |
| 25 | Kunnamkulam | 15 | 17 | 24 | - | 192 | - | - | 1 | - | - | 499 |
| 26 | Palakkad Chittoor- | - | - | 114 | - | 428 | - | - | - | - | - | 2320 |
| 27 | Thathamangalam | - | - | 11 | - | 25 | - | 1 | 1 | - | - | 266 |
| 28 | Thirur | 3 | 10 | 69 | - | 192 | - | - | - | 56 | - | 569 |
| 29 | Malappuram | 2 | 1 | 28 | - | 85 | 21 | - | - | 12 | - | 448 |
| 30 | Kozhikode Corpн. | 112 | 125 | 631 | - | 932 | 352 | - | 12 | - | - | 9608 |
| 31 | Vadakara | - | - | 28 | - | 744 | - | - | - | - | - | 1073 |
| 32 | Thalasserry | - | - | 92 | - | 1038 | - | - | - | - | - | 2038 |
| 33 | Kannur | - | - | 47 | - | 385 | - | - | - | - | - | 786 |
| 34 | Kasaragod | - | - | 59 | - | - | - | 46 | - | - | - | 263 |

Table 8 - Results of Spot Check Survey - 2008

| 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 | Registered | N.R | occurred outside | Enumerated | Registered | N.R | occurred outside | Enumerated | Registered | N.R | occurred outside |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1. | Neyyattinkara | 15 | 7522 | 6941 | 244 | 44 | - | 200 | - | - | - | - | 150 | 114 | 1 | 35 |
| 2. | Thiruvanantha- puram | 15 | 47902 | 22705 | 638 | 596 | - | 42 | - | - | - | - | 207 | 206 | 1 | - |
| 3. | Attingal | 15 | 7501 | 7501 | 214 | 116 | - | 98 | - | - | - | - | 131 | 66 | - | 65 |
| 4. | Kollam Corp | 15 | 25200 | 20099 | 770 | 629 | - | 141 | - | - | - | - | 305 | 242 | - | 63 |
| 5. | Punalur | 15 | 6022 | 6022 | 236 | 172 | - | 64 | 2 | - | - | 2 | 164 | 128 | 7 | 29 |
| 6. | Kayamkulam | 15 | 5902 | 5902 | 302 | 211 | - | 91 | - | - | - | - | 112 | 71 | 7 | 34 |
| 7. | Mavelikkara | 15 | 4171 | 4171 | 97 | 44 | - | 53 | - | - | - | - | 75 | 51 | 2 | 22 |
| 8. | Alappuzha | 25 | 19676 | 19676 | 821 | 697 | - | 124 | - | - | - | - | 413 | 339 | - | 74 |
| 9. | Cherthala | 15 | 11058 | 11058 | 68 | 68 | - | 27 | - | - | - | - | 48 | 48 | - | 9 |
| 10. | Thiruvalla | 15 | 6221 | 6221 | 104 | 80 | - | 24 | - | - | - | - | 96 | 77 | - | 19 |
| 11. | Changanassery | 15 | 7630 | 7240 | 198 | 90 | - | 108 | - | - | - | - | 143 | 75 | 9 | 59 |
| 12. | Kottayam | 15 | 5113 | 5113 | 221 | 94 | 1 | 126 | - | - | - | - | 138 | 101 | 1 | 36 |
| 13. | Palai | 15 | 5581 | 3111 | 101 | 55 | - | 46 | - | - | - | - | 110 | 92 | - | 18 |
| 14. | Vaikom | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15. | Muvattupuzha | 15 | 6134 | 6134 | 130 | 130 | - | 66 | 1 | 1 | - | 1 | 52 | 51 | 1 | 18 |
| 16. | Kochi Corporation | 15 | 22732 | 22732 | 922 | 806 | - | 116 | 4 | 3 | - | 1 | 373 | 359 | 6 | 8 |
| 17. | Aluva | 15 | 4951 | 4951 | 224 | 224 | - | 97 | - | - | - | - | 160 | 160 | - | 70 |

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 | | | | Infant Deaths | | | | Other deaths | | | |
| | | | | | Enum- rated | Regis- tered | N.R | Occurred outside | Enum- rated | Regis- tered | N.R | occurred outside | Enum- rated | Regis- tered | 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 | 4646 | 4464 | 162 | 96 | - | 66 | - | - | - | - | 90 | 64 | - | 26 |
| 19. | Perumbavoor | 15 | 4644 | 4644 | 209 | 128 | - | 81 | - | - | - | - | 128 | 88 | - | 40 |
| 20. | Irrinjalakuda | 15 | 6602 | 4294 | 177 | 19 | - | 158 | - | - | - | - | 102 | 56 | - | 46 |
| 21. | Kodungallur | 15 | 5237 | 5237 | 168 | 125 | - | 43 | - | - | - | - | 86 | 69 | - | 17 |
| 22. | Chalakudy | 15 | 6110 | 5680 | 343 | 215 | - | 128 | 1 | - | - | 1 | 97 | 79 | 2 | 16 |
| 23. | Thrissur Corpn* | 15 | 9297 | 8903 | 269 | 269 | - | 34 | - | - | - | - | 170 | 170 | - | 11 |
| 24. | Guruvayoor | 15 | 3537 | 3537 | 102 | 5 | - | 97 | - | - | - | - | 55 | 29 | - | 26 |
| 25. | Kunnamkulam | 15 | 10162 | 6153 | 280 | 167 | - | 113 | - | - | - | - | 202 | 151 | - | 51 |
| 26. | Palakkad | 15 | 9709 | 9709 | 141 | 119 | - | 22 | 2 | - | - | - | 62 | 55 | - | 7 |
| 27. | Chittoor- Thathamangalam | 15 | 4372 | 4372 | 157 | | - | 157 | - | - | - | - | 137 | 106 | - | 31 |
| 28. | Thirur | 15 | 5962 | 5962 | 423 | 271 | - | 152 | 1 | - | - | 1 | 116 | 89 | - | 27 |
| 29. | Malappuram | 15 | 8793 | 8896 | 639 | 568 | - | 71 | 2 | 2 | - | - | 158 | 135 | 1 | 22 |
| 30. | Kozhikode Corpn. | 15 | 42963 | 23268 | 856 | 787 | - | 69 | 5 | - | - | - | 397 | 362 | 19 | 16 |
| 31. | Vadakara | 15 | 5015 | 5015 | 271 | 79 | - | 192 | 1 | - | - | 1 | 112 | 84 | - | 28 |
| 32. | Thalasserry | 15 | 5767 | 3560 | 258 | 218 | - | 40 | - | - | - | - | 114 | 98 | - | 16 |
| 33. | Kannur | 15 | 4313 | 4313 | 317 | 192 | - | 125 | 2 | - | - | 1 | 151 | 98 | - | 50 |
| 34. | Kasaragod | 15 | 7137 | 484 | 89 | 72 | - | 17 | - | - | - | - | 42 | 42 | - | - |

* 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 | - | 0.87 | 81.97 | 23.33 |
| 2 | Thiruvananthapuram | -- | 0.48 | 6.58 | - |
| 3 | Attingal | - | - | 45.79 | 49.6 |
| 4 | Kollam Corp | - | - | 18.31 | 20.66 |
| 5 | Punalur | - | 5.19 | 27.12 | 17.68 |
| 6 | Kayamkulam | - | 8.97 | 30.13 | 30.36 |
| 7 | Mavelikara | - | 3.77 | 54.64 | 29.33 |
| 8 | Alappuzha | - | - | 15.10 | 17.92 |
| 9 | Cherthala | - | - | 39.71 | 18.75 |
| 10 | Thiruvalla | - | - | 23.08 | 19.79 |
| 11 | Changanacherry | - | 10.71 | 54.55 | 41.25 |
| 12 | Kottayam | 1.05 | 0.98 | 57.01 | 26.09 |
| 13 | Palai | - | - | 45.54 | 16.36 |
| 14 | Vaikom | - | - | - | - |
| 15 | Muvattupuzha | - | 1.92 | 50.77 | 35.29 |
| 16 | Kochi Corporation | - | 1.64 | 12.58 | 2.23 |
| 17 | Aluva | - | - | 43.3 | 43.75 |
| 18 | North Parur | - | - | 40.74 | 28.89 |
| 19 | Perumbavoor | - | - | 38.8 | 1.3 |
| 20 | Irrinjalakuda | - | - | 89.26 | 45.09 |
| 21 | Kodungallur | - | - | 25.6 | 19.77 |
| 22 | Chalakudy | - | 2.46 | 37.32 | 16.49 |
| 23 | Thrissur Corp | - | - | 12.6 | 6.4 |
| 24 | Guruvayoor | - | - | 95.09 | 47.27 |
| 25 | Kunnamkulam | - | - | 40.35 | 25.24 |
| 26 | Palakkad | - | - | 15.60 | 11.29 |
| 27 | Chittoor- Thathamangalam | - | - | 100 | 22.62 |
| 28 | Thirur | - | - | 35.93 | 23.73 |
| 29 | Malappuram | - | 0.735 | 11.11 | 13.92 |
| 30 | Kozhikode Corp. | - | 4.99 | 8.06 | 4.03 |
| 31 | Vadakara | - | - | 70.85 | 25.00 |
| 32 | Thalasserry | - | - | 15.5 | 14.04 |
| 33 | Kannur | - | 2.97 | 39.43 | 33.11 |
| 34 | Kasaragod | - | - | 19.10 | - |

Table 10 - Registered Vital Rates and Adjusted Residential Vital rates 2008

| Sl. No. | Municipality/ Corporation | Registered vital rates | | Adjusted residential vital rates | |
|------------|------------------------------|---------------------------|--------|-------------------------------------|--------|
| | | Births | Deaths | Births | Deaths |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Neyyattinkara | 4.334 | 5.46 | 24.04 | 7.185 |
| 2 | Thiruvananthapuram | 7.91 | 3.31 | 8.47 | 3.32 |
| 3 | Attingal | 6.64 | 2.91 | 12.24 | 5.77 |
| 4 | Kollam Corpn. | 8.53 | 2.62 | 10.44 | 3.30 |
| 5 | Punalur | 8.84 | 6.55 | 12.13 | 8.39 |
| 6 | Kayamkulam | 11.51 | 4.13 | 16.47 | 6.52 |
| 7 | Mavelikara | 5.22 | 5.68 | 11.51 | 8.35 |
| 8 | Alappuzha | 12.46 | 4.41 | 14.67 | 5.37 |
| 9 | Cherthala | 6.65 | 2.34 | 11.03 | 2.89 |
| 10 | Thiruvalla | 5.51 | 6.37 | 7.16 | 7.94 |
| 11 | Changanacherry | 7.27 | 3.60 | 16.00 | 6.86 |
| 12 | Kottayam | 4.72 | 4.38 | 11.09 | 5.98 |
| 13 | Fulai | 4.11 | 4.57 | 7.55 | 5.46 |
| 14 | Vallam | - | - | - | - |
| 15 | Muvattupuzha | 9.37 | 4.36 | 19.03 | 6.88 |
| 16 | Kochi Corporation | 17.14 | 8.40 | 19.61 | 8.73 |
| 17 | Aluva | 8.66 | 6.19 | 15.27 | 11 |
| 18 | North Parur | 5.70 | 5.39 | 9.62 | 7.58 |
| 19 | Perumbavoor | 6 | 5.18 | 9.8 | 7.54 |
| 20 | Iritty | 2.37 | 5.71 | 22.06 | 6.40 |
| 21 | Herrangallur | 4.76 | 2.43 | 6.4 | 3.03 |
| 22 | Cochinakkudy | 8.97 | 5.34 | 14.32 | 6.55 |
| 23 | Thrissur Corpn | 6.86 | 4.36 | 7.7 | 4.7 |
| 24 | Curuvayoor | 0.68 | 4.83 | 13.8 | 9.16 |
| 25 | Kannamkulam | 6.98 | 5.95 | 11.7 | 7.96 |
| 26 | Idukki | 40.72 | 5.63 | 48.25 | 6.62 |
| 27 | Chettor | 0.12 | 6.769 | 11.6 | 8.75 |
| 28 | Thuthamangalam | 9.62 | 2.60 | 15.02 | 3.04 |
| 29 | Malappuram | 9.69 | 2.43 | 10.90 | 2.85 |
| 30 | Kozhikkode Corpn. | 10.77 | 4.51 | 11.71 | 4.95 |
| 31 | Vudakara | 6.16 | 7.10 | 21.12 | 9.47 |
| 32 | Talassery | 27.4 | 6.16 | 32.43 | 7.17 |
| 33 | Ettuvad | 10.20 | 4.54 | 16.84 | 7.00 |
| 34 | Ernakulam | 16.63 | 4.75 | 20.58 | 4.75 |

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) | $\frac{\text{Residential birth/death rate to normal residents occurred inside the town (weighted for under registration)} \times 100}{(100 - \text{Percentage of events occurred outside the town to normal residents})}$ |

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