



REPORT OF THE DIRECTOR OF PUBLIC
HEALTH, MADRAS, FOR 1937

INCLUDING

ADMINISTRATION OF VACCINATION
IN 1937-38

AND

FORTY-EIGHTH ANNUAL REPORT OF THE
SANITARY ENGINEER TO GOVERNMENT
1937

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ANNUAL REPORT OF THE DIRECTOR OF PUBLIC HEALTH, MADRAS, 1937.

RAINFALL AND PRICES OF FOOD-GRAINS.

The average district rainfall was 49·25 inches in 1937, as compared with 52·16 inches in 1936 and 40·09 inches in 1935. The seasonal distribution was as follows:—

	Inches.
Inter-monsoon period—January to May 1937	7·95
South-west Monsoon—June to September 1937	24·03
North-east Monsoon—October to December 1937	17·27
Total	49·25

The rainfall was less during the South-west monsoon and the inter-monsoon periods when compared with the previous year, while there was an increase during the North-east monsoon. The Ceded districts had a poor rainfall with Bellary recording the lowest fall. As usual the West Coast districts and the Nilgiris had the heaviest rainfall while the distribution was fairly even in the other districts. South Arcot, Chingleput and Madras had more than average rainfall. The defective rainfall in the Ceded districts has caused acute economic distress amongst the people and famine conditions became evident in certain localities of Bellary district by the end of the year.

2. The following statement shows the average prices of the principal food grains:—

Grains.	Seers per rupee in			Average for the previous 10 years ending with 1936.	Percentage of variation of prices in 1937 from 10 years average.
	1937	1936	1935		
Rice (second sort)	10·3	10·5	10·1	8·7	—15·5
Ragi	15·7	16·3	15·3	14·9	—5·1
Cholam	15·3	16·1	14·5	14·2	—7·2
Cumbu	17·4	14·9	14·0	13·5	—22·4

When compared with the previous year, the prices have slightly increased except in the case of cumbu. The prices were however still below the average of the past ten years.

VITAL STATISTICS.

GENERAL POPULATION.

3. Madras province exclusive of the Indian States has an area of 125,438 square miles with a population of 44,182,047. The density of population per square mile is 352. The estimated mid-year population in 1937 is 47,000,390. It is based on the assumption that the population

has increased by geometrical progression at the same rate as in the previous intercensal period. The population estimated by the natural increase method (i.e., by adding the excess of births over deaths and by deducting the excess of emigration over immigration to the census population) is 47,492,353.

The vital statistics recorded in the Vizagapatam Agency are not included, as there is no proper system of registration of births and deaths in that area. The vital statistics of Europeans and Anglo-Indians have also been excluded as in the previous years, except in Statement No. IV in the Appendix I. The actual census population for which vital statistics are included in the Report is therefore 43,946,960. Of these, 6,207,854 represents the urban population (i.e., population of municipalities and rural towns) and 37,739,106 represent the rural population.

4. With a steadily growing population, other factors being the same, there will be a steady increase in the birth and death rates from one census year to another if such rates are calculated on the census population. Inasmuch as the rates in the various tables appended in the Report are calculated on the 1931 census population, the same rates as calculated on the mid-year population of 1937 are also furnished in the body of the Report.

MIGRATION OF POPULATION.

5. Owing to the increased activities in the plantations in Malaya and Ceylon, there was a large increase in the emigration of unskilled labour from this Province to these places. The table below gives a comparative statement of such emigration during the past five years:—

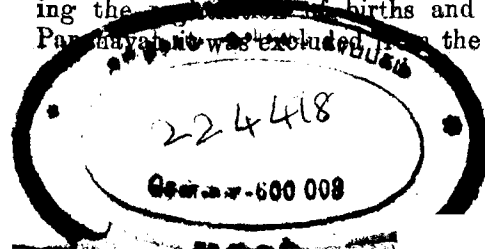
Years.		Number of emigrants.	Years.		Number of emigrants.
1933	...	32,936	1936	...	44,683
1934	...	118,447	1937	...	106,514
1935	...	63,830			

The emigrants to Malaya were recruited chiefly from North Arcot, Salem, Chingleput and Chittoor districts and those to Ceylon from Trichinopoly district.

The number of immigrants who were either repatriated or assisted to return during the year from Malaya, Ceylon, South Africa, Fiji and Mauritius was 17,121.

REGISTRATION OF VITAL STATISTICS.

6. Registration of births and deaths is compulsory in all municipalities and in such of the villages where the Registration of Births and Deaths Act (Act III of 1899) has been brought into force. The Act was further extended during the year to 8 villages in Nellore district, 7 villages in Bellary district, 1 village in East Gōdāvari district and 98 villages in Ramnad district. As the provisions of District Municipalities Act regarding the registration of births and deaths were extended to Alandur Panchayat, it was excluded from the operation of the Act III of 1899.



7. The village headmen are generally the Birth and Death Registrars in villages whether the registration is compulsory or not while a special staff of Birth and Death Registrars are in charge of the work in municipalities and in a few rural towns. Twenty-four candidates were trained as Birth and Death Registrars during the year in two batches, one under the Municipal Health Officer, Bellary and the other under the Municipal Health Officer, Calicut.

8. Although the registration of births and deaths has considerably improved in recent years, there is still room for further improvement. It is important that all births and deaths should be registered with the least possible delay and the causes of deaths should be correctly recorded. The rules for the Registration of Births and Deaths are under revision and the draft of the revised rules has been published for criticism. It is hoped that the draft rules will soon be confirmed. It is also high time that Birth and Death Registration is made compulsory in all villages. During their verification of the birth and death registers in villages, the Health Staff detected 41,019 unregistered births and 12,555 unregistered deaths during the year and got them registered.

COMPILATION OF VITAL STATISTICS.

9. The centralisation of the work of compilation of vital statistics in the office of the Director of Public Health was found to be more efficient and economical and as a result the scheme has been made permanent during the year. The monthly returns of births and deaths in villages are collected by the Tahsildar from the Village Headmen at the end of each month and forwarded to the Director of Public Health, while the municipal returns are submitted direct by the Executive Authorities. Although some of the village returns were received late for inclusion in the monthly vital statistical statements, every effort was made to ensure the annual vital statistical figures to be as complete as possible. Out of a total of 420,000 monthly returns from villages, only 784 returns of minor villages were not received in time for inclusion in this report. They represent only 0.18 per cent of the total and are not likely to affect the rates materially. Though most of the Tahsildars were very prompt in the submission of village returns, the Tahsildars of Pattukottai and Arantangi taluks in Tanjore district and Tiruvallur taluk in Chingleput district were the chronic defaulters and the arrears are mostly from these taluks.

10. Whenever the birth or death-rate in a rural town was found to be defective in any month, a special investigation was made with the co-operation of the District Collector to see whether such low rates were due to the defective registration or incomplete returns or due to some other causes.

GENERAL BIRTH AND DEATH-RATES.

11. The crude birth and death-rates calculated on the census population cannot be considered to be accurate as they do not take into account the increase in the population since the last census, as evidenced by the annual recorded excess of over half-a-million births over deaths. It is

therefore necessary to calculate the birth and death-rates on the estimated mid-year population to get a correct idea of the actual birth and death-rates. The following table gives the birth and death-rates as calculated on the census population as also on the mid-year populations:—

Year.	Mid-year estimated population for which vital statistics were recorded.	Number of births.	Birth-rate based on the estimated population.	Birth-rate based on census population.	Difference in columns 4-5.	Number of deaths.	Death-rate on the estimated population.	Death-rate on the census population.	Difference in columns 8-9.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1931 ...	45,322,074	1,096,403	35.4	35.5	-0.1	1,072,572	23.7	23.7	0.0
1932 ...	45,763,500	1,027,381	35.6	36.0	-0.4	992,024	21.7	22.0	-0.3
1933 ...	46,209,300	1,701,245	36.9	37.7	-0.8	1,068,923	23.1	23.7	-0.6
1934 ...	46,659,269	1,638,996	35.0	36.2	-1.2	1,127,169	24.2	25.0	-0.8
1935 ...	47,113,707	1,671,186	35.5	37.0	-1.5	1,124,336	23.9	24.9	-1.0
1936 ...	* 46,543,720	1,659,625	35.7	37.8	-2.1	1,023,839	22.0	23.3	-1.3
1937 ...	47,900,390	1,701,662	36.2	38.7	-2.5	1,054,430	22.0	24.0	-2.0

* The decrease is due to the transfer of a portion of this province to Orissa.

The differences in the birth and death-rates as calculated on the census population and on the estimated population are given in columns 6 and 10 respectively. The difference in the birth-rates gradually increases from 0.1 per mille in the census year of 1931 to 2.5 per mille in 1937 and that in the death-rates from 0 to 2.0 per mille. It is therefore evident that the crude birth and death-rates do not indicate the true vital statistical rates and shows the need to calculate these rates on the estimated populations in a province like Madras with a rapidly growing population and where the census enumeration is carried out only once in ten years.

12. The following statement shows the number of deaths registered during the last five years under the chief causes of death:—

Cause of deaths.	Number of deaths registered in					Increase or decrease in 1937 as compared with 1936.
	1933.	1934.	1935.	1936.	1937.	
Cholera ...	3,851	18,158	35,456	34,117	23,307	-10,810
Dysentery and Diarrhoea...	97,584	97,944	96,181	84,313	84,276	-57
Smallpox ...	10,745	18,088	12,330	4,581	2,446	-2,135
Plague ...	2,591	2,358	645	615	1,127	+512
Fevers ...	300,182	325,050	315,998	271,668	286,654	+15,026
Respiratory diseases ...	105,828	107,742	102,843	93,842	95,906	+2,064
Deaths from child birth ...	13,565	13,902	14,439	13,536	14,589	+1,053
Other causes ...	534,577	544,027	546,444	521,167	546,085	+24,918
Total ...	1,068,923	1,127,169	1,124,336	1,023,839	1,054,430	+30,591

There has been a small increase in the number of deaths registered in 1937 when compared with the previous year. This increase should be attributed to the increase in population as it has not resulted in an increase in the death-rate calculated on the estimated population.

13. The salient features of the vital statistics of the Province during the year are:—

(i) An increase in the birth-rate from 37.8 to 38.7 per 1,000 of the census population and from 35.7 to 36.2 per 1,000 of the estimated population.

(ii) An increase in the death-rate from 23.3 to 24.0 per 1,000 of the census population, while the death-rate calculated on estimated population remained the same (22.0) as in the previous year.

(iii) A reduction in the mortality from cholera by nearly 31 per cent.

(iv) A marked decrease in the deaths from smallpox by about 47 per cent.

(v) An increase in the number of deaths registered under "Fevers", "Respiratory diseases" and "deaths from child birth".

(vi) An increase in Plague mortality by about 85 per cent.

BIRTHS.

14. The number of live births registered in the Province during the year was 1,701,662 (870,240 males and 831,422 females), giving a birth-rate of 38.72 per mille, as against 37.76 per mille in 1936 while the average birth-rate for the previous five years was 36.93 per mille. The ratio of male births to female births was 105:100. In the urban areas (municipalities and rural towns with a population of 5,000 or more) 247,115 births were recorded, giving a birth-rate of 39.81 per mille. There were 1,454,547 births in rural areas, giving a birth-rate of 38.54 per mille.

The birth-rates among the different communities were as follows:—

Hindus ...	...	...	...	38.60 per mille.
Muhammadans ...	...	...	...	39.76 "
Indian Christians ...	...	...	...	37.64 "
All Communities ...	...	...	...	38.72 "

The highest birth-rate was recorded in the Muhammadan community.

The distribution of births in the four quarters of the year is shown in the following statement:—

		Number of births.		Percentage of Quarterly births to total births.	
First quarter ...	January ...	...	126,547	361,905	21.26
	February ...	...	109,295		
	March ...	...	126,063		
Second quarter ...	April ...	...	130,062	418,965	24.62
	May ...	...	140,141		
	June ...	...	148,762		
Third quarter ...	July ...	...	151,529	474,466	27.88
	August ...	...	158,086		
	September ...	...	161,851		
Fourth quarter ...	October ...	...	152,884	446,326	26.24
	November ...	...	146,683		
	December ...	...	146,759		
Total ...		...	1,701,662	1,701,662	100.00

As usual the largest number of births was recorded in the third quarter.

15. Table I of Appendix I gives the number of births and the birth-rate in each district. Eight districts registered birth-rates of over 40 per mille, fifteen between 40 and 35 per mille and two between 35 and 30 per mille. Excluding Madras, the highest birth-rate of 45.60 per mille was recorded in Kistna district and the lowest (32.07) in Tanjore district. Ramnad was another district which returned a low birth-rate of 33.58 per mille.

As compared with the previous year the birth-rates have increased in sixteen districts, the increase ranging from 0.35 in Vizagapatam district to 5.84 in Bellary district. The birth-rates in the remaining nine districts have decreased, the decrease ranging from 0.22 in East Godavari district to 2.13 in South Kanara district. The birth-rate was in excess of death-rate in all the districts, the maximum being 22.66 per mille in Anantapur district and the minimum being 7.79 in Tanjore district. The excess of birth-rate over death-rate in the Province was 14.73 per mille during the year as against 14.46 per mille in the previous year.

16. The number of still-births registered in non-municipal areas was 16,252 (9,175 males and 7,077 females) giving a rate of 10.50 per 1,000 live births. The proportion is rather low when compared to the rate of 46.57 per 1,000 live births in municipalities and may be due to the fact that many of the still-births escape registration in rural areas.

BIRTHS IN MUNICIPALITIES.

17. The number of births and the birth-rate registered in each municipality during the year under report are given in statement VI of Appendix I. Gudivada and Devakottai were also constituted into municipalities from 1st April 1937. 152,679 births were recorded in municipalities during 1937, giving a birth-rate of 41.25 per mille as compared with 41.00 per mille in 1936. Forty-two municipalities returned birth-rates of over 40 per mille, thirty-nine between 40 and 30 per mille and two between 30 and 20 per mille. Devakottai (26.83) and Palacole (28.81) were the municipalities that recorded the lowest birth-rates. Of these, Palacole registered low birth-rate in the previous year also. The low rates should be mainly due to defective registration.

There were 7,110 still-births (3,911 males and 3,199 females) in municipalities giving a rate of 46.57 still-births per 1,000 live-births.

BIRTHS IN RURAL TOWNS.

18. The total number of rural towns with a population of 5,000 and above has been reduced from 243 to 241 owing to the constitution of Gudivada and Devakottai into municipalities. 94,436 births were registered in the rural towns during the year, giving a birth-rate of 37.67 per mille as against 36.48 per mille in 1936. The following is the classification of rural towns in accordance with their recorded birth-rates during 1936 and 1937 :—

Birth-rates.	Number of rural towns.	
	1936.	1937.
Over 40 per mille	73	89
Between 40 and 30 per mille	129	119
Between 30 and 20 per mille	37	31
Below 20 per mille	4	2
Total	243	241

There was certainly an improvement in 1937 when compared with the previous year. St. Thomas' Mount (12.07) and Kottayur (19.08) were the only towns that recorded birth-rates below 20 per mille. Evidently these low rates are due to incomplete registration.

DEATHS.

19. 1,054,430 deaths, 534,349 males and 520,081 females were registered during the year giving a death-rate of 23.99 per mille as against 23.30 per mille in the previous year. There were 103 male deaths for every 100 female deaths. The number of female deaths was, however, greater than male deaths in Ramnad and Tanjore districts. The urban areas recorded 168,923 deaths with a death-rate of 27.21 per mille as against 26.79 per mille in 1936. In the rural areas 885,507 deaths were registered in 1937 giving a death-rate of 23.46 per mille as against 22.72 per mille in the previous year.

20. Table II of Appendix I gives the total number of deaths and the death-rates in each district. The highest death-rate of 28.62 per mille was recorded in Kistna district and the lowest (20.06) in Malabar district. When compared with the death-rates in the previous year, there has been an increase in the death-rates in nine districts and a decrease in sixteen districts. The increase varied from 0.14 per mille in North Arcot district to 5.30 per mille in Kistna district and the decrease from 5.17 per mille in Tinnevely district to 0.34 per mille in Anantapur district. The large increase in Kistna district was chiefly due to the increase in the deaths under "Fevers" and "Dysentery and Diarrhoea".

21. The distribution of deaths during the four quarters of the year was as follows :—

	Number of deaths.	Percentage to total deaths.
First quarter ...	260,851	24.74
Second quarter ...	237,598	22.54
Third quarter ...	262,320	24.88
Fourth quarter ...	293,661	27.84
Total ...	1,054,430	100.00

As in the previous years, the lowest mortality was recorded in the second quarter and the highest in the fourth quarter.

The death-rates among the chief communities were as follows :—

	Rate per 1,000 of population.
Hindus ...	24.29
Muhammadans ...	22.09
Indian Christians ...	20.87
All communities ...	23.99

The highest death-rate was in the Hindu community.

DEATHS IN MUNICIPALITIES.

22. The number of deaths and the death-rates in each municipality are given in Statement VI of Appendix I. 109,220 deaths were registered in municipalities during the year, giving a death-rate of 29.51 per mille as compared with 28.76 per mille in the previous year. Two municipalities returned death-rates over 40 per mille, sixteen between 40 and 30 per mille, fifty six between 30 and 20 per mille and nine below 20 per mille. The highest death-rate of 42.88 per mille was recorded in Nellore municipality, Madras coming second with 40.13 per mille. The municipalities that recorded death-rates below 20 per mille were Tenali (19.78), Villupuram (19.68), Tadpatri (19.18), Proddatur (19.18), Vaniyambadi (19.01), Devakottai (18.59), Nandyal (18.40) and Sivakasi (15.06).

DEATHS IN RURAL TOWNS.

23 59,703 deaths were registered in rural towns during the year, giving a death-rate of 23.82 per mille, as against 23.95 per mille in 1936. Two rural towns recorded death-rates of over 40 per mille, 30 between 40 and 30 per mille, 147 between 30 and 20 per mille, 56 between 20 and 15 per mille and 6 below 15 per mille. Kilakarai (55.66) and Yemmiganur (48.67) were the two towns which recorded the highest death-rates. The towns that returned very low rates were St. Thomas' Mount (10.93), Kamudi (13.33), Kandanur (13.37), Namakkal (13.54), Ramnad (14.57) and Dowlaiswaram (14.80). Of these, St. Thomas' Mount, Kandanur and Ramnad reported low rates in the previous years also.

AGE AND SEX DISTRIBUTION OF DEATH-RATES IN URBAN AND RURAL AREAS.

24. The distribution of deaths and the death-rates according to age and sex for rural and urban (municipal and rural towns) areas are given in Statement IV of Appendix I. The mortality amongst Europeans and Anglo-Indians is also included in the statement. An abstract of the age and sex distribution of the death-rates is given below :—

Death-rate per 1,000 of population in each age-group.

Age.	Rural areas.			Urban areas.			Total (Rural and Urban).		
	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.
Under 1 week	65.68	54.13	60.02	58.61	46.34	52.64	64.65	53.00	58.00
1 week and under one month	33.47	29.19	31.37	30.11	25.54	27.80	32.98	28.66	30.86
1 month and under 6 months	39.76	36.24	38.04	57.17	50.45	53.90	42.30	38.30	40.35
6 months and under 12 months	39.70	37.89	38.82	45.06	42.24	43.69	40.48	38.53	39.53
Total under one year	178.61	157.45	168.27	190.95	164.58	178.11	180.41	158.49	169.70
1 year and under 5 years	33.70	32.77	33.22	36.69	36.39	36.54	34.13	33.27	33.69
5 years and under 10 years	8.60	8.59	8.60	8.05	8.20	8.13	8.52	8.54	8.53
10 do.	4.79	5.08	4.93	4.80	5.68	5.22	4.79	5.17	4.97
15 do.	6.43	8.42	7.46	7.86	11.85	9.89	6.63	8.90	7.80
20 do.	7.31	9.78	8.60	11.11	13.85	12.56	7.85	10.30	9.16
30 do.	10.35	11.54	10.95	14.15	14.63	14.39	10.90	11.97	11.43
40 do.	16.95	14.10	15.56	22.83	16.70	19.91	17.79	14.46	16.18
50 do.	28.40	23.85	26.13	35.65	25.90	30.87	29.44	24.14	26.81
60 years and above	98.97	98.55	98.78	111.15	115.80	113.48	100.72	100.95	100.85
Total	24.02	22.89	23.45	27.84	26.60	27.22	24.57	23.41	23.98

NOTE.—The death-rates for all periods under one year have been calculated per 1,000 live-births.

25. An analysis of the figures reveals the following features :—

(1) The mortality rates for all age-groups in rural areas are less than those for urban areas except during the first month of life. The environmental conditions are naturally better for a healthy living in the rural areas than in the urban areas. The higher death-rate within one month of birth in rural areas is mainly due to neonatal causes including the inadequacy of maternity facilities.

(2) Both in rural and urban areas, death-rates amongst females are distinctly higher in the age-periods, 15 to 40 years. The higher death-rates among women during the child-bearing period is due to the greater risks attendant upon child-birth.

(3) The death-rates during the different age-periods show the usual variation. The mortality rate declines rapidly from birth reaching the minimum in the age-period 10 to 15 years and increases again to a maximum at the end of life, the increase being more gradual than the fall.

[INFANTILE MORTALITY.

26. 288,920 infants died during the year as against 272,393 in the previous year, the infantile mortality rates being 169.70 and 164.04 per 1,000 live-births respectively. The infantile deaths accounted for 27 per cent of the total mortality. 53 per cent of the infantile deaths occurred within one month after birth. The infantile mortality rates in this province as well as in other provinces of India are very high when compared to the rates in western countries. Poverty, ignorance, insanitation, overcrowding and lack of adequate maternity and child-welfare services are the chief contributory causes for these high rates.

GENERAL.

27. The vital index of the province for the year, which expresses the ratio of birth-rate to death-rate as a percentage is 157.

28. For purposes of comparison of the vital statistics of this province with those of the other provinces in India, the vital statistics of those provinces are given below. In comparing these figures, the fact that the completeness of registration of births and deaths vary in different provinces should be borne in mind.

Province.	Birth-rate.	Death-rate.	Survival rate (Birth-rate-Death-rate).	Number of male births to 100 female births.	Number of male deaths to 100 female deaths.	Infantile mortality rate.
Assam	31.31	22.21	9.10	107	107	160.04
Bengal	34.20	24.70	9.50	108	105	175.48
Bihar	34.00	22.53	11.47	105	112	115.86
Bombay	40.68	27.50	13.18	107	105	160.74
Central Provinces	40.65	32.63	8.02	106	110	218.60
N.W. Frontier Provinces	30.74	21.27	9.47	130	121	148.61
Orissa	34.75	28.63	6.12	106	89	214.66
Punjab	46.49	23.71	22.78	111	115	163.04
Sind	19.96	12.09	7.87	126	130	118.02
United Provinces	35.92	21.38	14.54	113	117	142.33
Madras	37.76	23.99	13.77	105	103	169.70

29. An attempt has been made to gauge the trend of birth and death-rates in this province during the past 37 years. Straight lines have been fitted to the observed birth and death-rates by the method of Least Squares. It is seen from the graph that the birth-rate has been increasing at a rate of 0.10 per mille and the death-rate has been more or less stationary. The population of this province has therefore been steadily increasing. This is in striking contrast with some of the western countries where in recent years, there has been a great retardation in the growth of population.

HISTORY OF THE CHIEF DISEASES AND THEIR EPIDEMIOLOGY.

CHOLERA.

30. 23,307 deaths were recorded under cholera giving a death-rate of 0.53 per mille as compared with 34,117 deaths with a mortality rate of 0.78 per mille in 1936. No district was completely free. Salem, Coimbatore, Tanjore, Trichinopoly, North Arcot, South Arcot, Bellary, Chingleput, Cuddapah and Nellore were the districts which returned high death-rates from cholera.

The mortality was highest in the first quarter and lowest in the last quarter. The usual seasonal distribution was maintained.

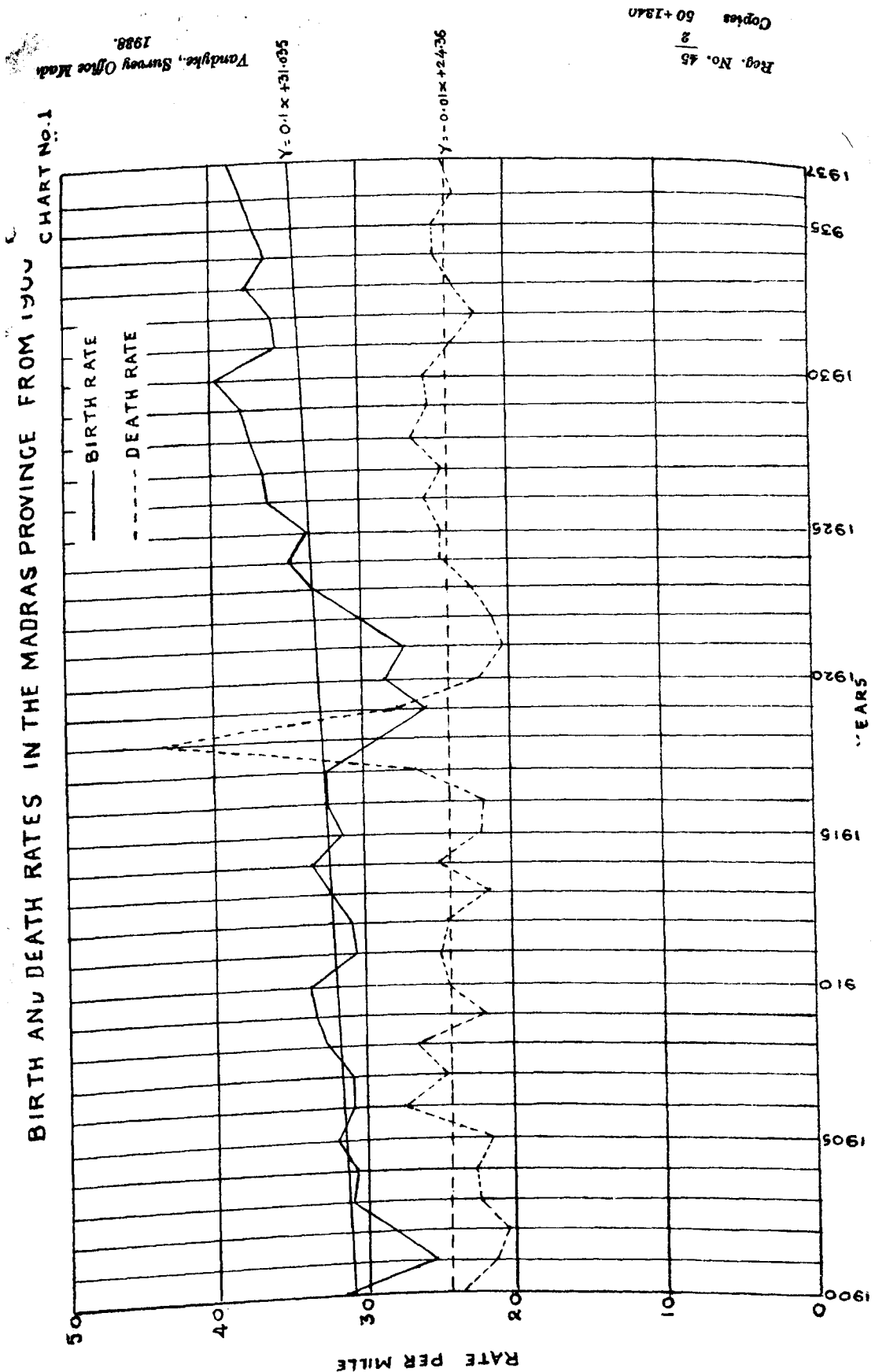
Fifty-seven municipalities were affected during the year recording 1,532 deaths as compared with 2,092 deaths in the previous year. The highest mortality figures were returned from Guntūr (290), Madras (229), Salem (152), Adoni (135), Madura (92) and Trichinopoly (75). These six municipalities were responsible for nearly two-thirds of the total cholera deaths in the municipal towns.

The following is a statement of the comparative mortality from cholera in the province during the past ten years:—

Year.	Deaths from cholera.	Year.	Deaths from cholera.
1928 ...	57,677	1933 ...	3,851
1929 ...	25,846	1934 ...	18,158
1930 ...	18,746	1935 ...	35,456
1931 ...	30,232	1936 ...	34,117
1932 ...	5,278	1937 ...	23,307

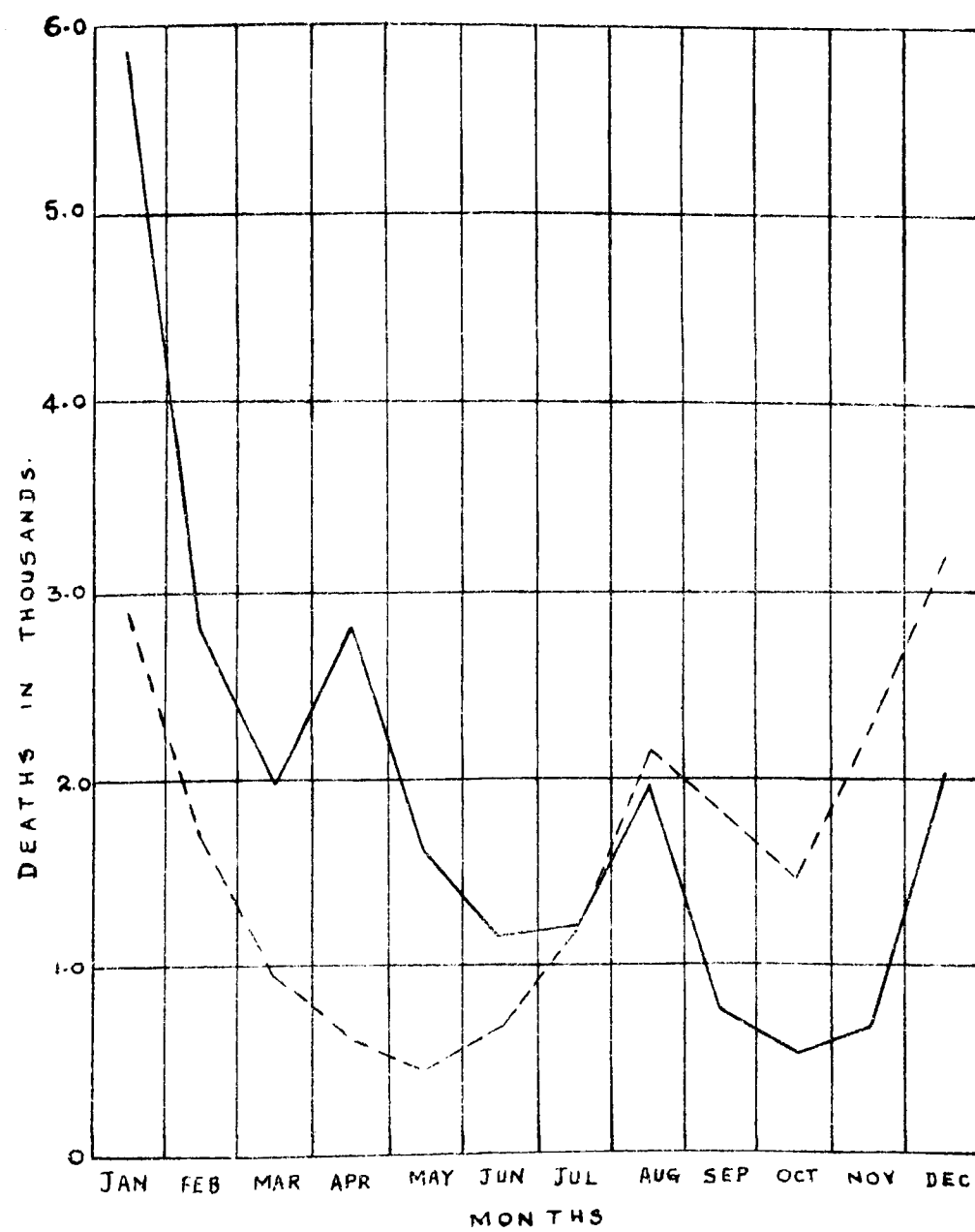
These figures show that after a comparative lull in the years 1932 and 1933, there was a steady rise in cholera mortality from the year 1934 reaching the peak in 1935 and then a gradual fall to the year under report.

31. The winter epidemic which commenced at the close of 1936 continued with varying severity in Tanjore, South Arcot, Trichinopoly, Salem, Coimbatore, Ramnad, Madura, Tinnevely, Nellore, Chingleput and North Arcot districts during the first quarter of 1937. The infection in Nellore, North Arcot and Chingleput districts had almost subsided by the end of the quarter while there was a further rise by that time in Salem, Coimbatore, Madura and Trichinopoly districts. The Panguni Uttiram festival at Palni in Madura district, Madeswaram Hills festival in Kollegal taluk



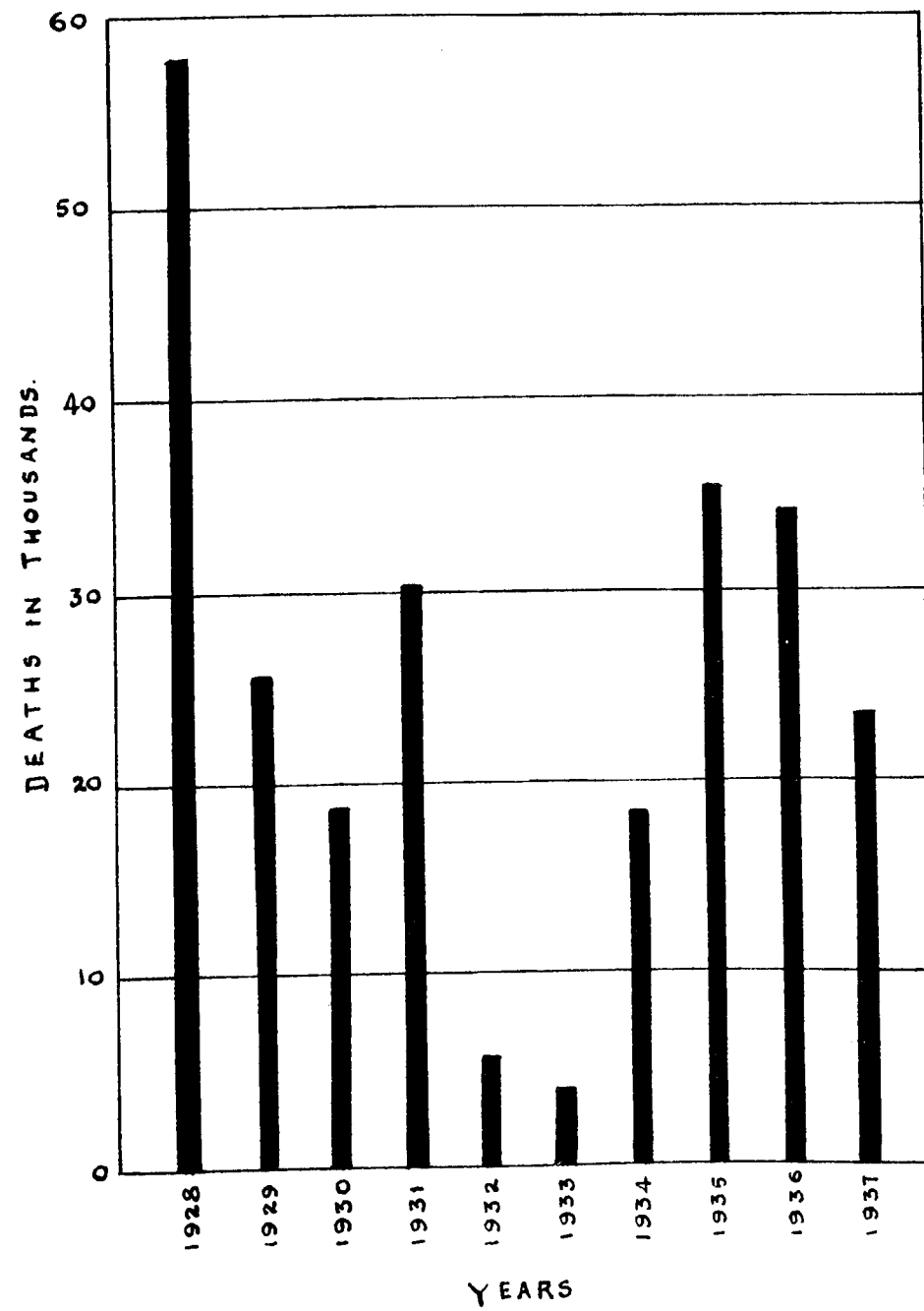
GRAPH I (b)

MEAN MONTHLY DEATHS FROM CHOLERA IN 1932-36
AND MONTHLY DEATHS IN 1937



----- 1932-36

GRAPH I(a)
DEATHS FROM CHOLERA IN THE MADRAS PRESIDENCY
DURING THE YEARS 1928 TO 1937



REFERENCE:-

(Dotted pattern)	DEATH RATE 0.00 To 0.25
(Diagonal lines \)	" " 0.25 To 0.5
(Diagonal lines /)	" " 0.50 To 0.75
(Horizontal lines)	" " 0.75 To 1.00
(Vertical lines)	" " 1.00 To 1.25
(Cross-hatch pattern)	" " 1.25 To 1.50

In the meantime, cholera was imported into Bellary district in the second quarter from outside the province. This infection took on a severe form when Adoni Municipality was infected by the beginning of July. The adjoining districts of Kurnool and Anantapur were also affected from this source. From Kurnool the infection passed on to Cuddapah district which had severe infection in the fourth quarter.

There was a fresh importation of infection into Kistna district in July from H.E.H. the Nizam's Dominions, which spread also to the adjoining districts. Guntur municipality was severely affected in this epidemic and the infection was widely disseminated in the district. Nellore district was infected from this source as also from infected villages in Cuddapah district. The winter epidemic in the Cauvery delta was comparatively mild except for the portions included in South Arcot district which had a severe outbreak in December. The usual preventive measures were taken to control the infection in each district. As in previous years, forecasts were made of the probable trends in the prevalence of cholera and these forecasts were of value in organizing preventive measures. The District Health Staff were concentrated whenever necessary to combat the infection and special staff were appointed to supplement their work. 1,712,084 anti-cholera inoculations were done during the year as against 1,952,872 anti-cholera inoculations in 1936.

SMALL-POX.

32. The mortality from small-pox has further decreased from 4,581 in 1936 to 2,446 in 1937, giving death-rates of 0·10 and 0·06 per mille respectively. The mortality from small-pox is the lowest ever recorded during the past 70 years. The following is a statement of the mortality from small-pox in the province during the past decennium :—

Year.		Number of deaths from small-pox.	Year.		Number of deaths from small-pox.
1928	...	7,618	1933	...	10,745
1929	...	9,708	1934	...	18,088
1930	...	8,025	1935	...	12,330
1931	...	4,660	1936	...	4,581
1932	...	5,363	1937	...	2,446

• It will be seen that the mortality from small-pox has been steadily decreasing from the epidemic year of 1934 and this decline is in no small measure due to the intensive vaccination and revaccination campaign carried on from year to year.

33. No district was absolutely free from small-pox infection though the districts of Guntur, the Nilgiris, Anantapur and East Gōdāvari had only stray cases. South Arcot, Salem and Chingleput had a mortality rate of 0.10 per mille each while the other districts had still lower rates. The

incidence of small-pox was highest in the first quarter and gradually declined during the subsequent quarters.

Only 24 municipal towns were infected with small-pox during the year. 336 deaths from the disease were recorded in these municipalities giving a death-rate of 0.11 per mille as compared with the rate of 0.14 per mille in 1936. Nearly 50 per cent of these deaths were returned from Madras City alone. The other municipal towns which recorded high mortality from small-pox were Trichinopoly (29 deaths), Tiruvannamalai (26 deaths), Erode (25 deaths) and Tellicherry (25 deaths).

34. The distribution of small-pox mortality in the different age-periods during the last ten years is shown in the following statement:—

Year.	Under 1 year.		1 year and under 10 years.		Above 10 years.		Total number of deaths.
	Number of deaths from small-pox.	Percent-age to total.	Number of deaths from small-pox.	Percent-age to total.	Number of deaths from small-pox.	Percent-age to total.	
1928 ...	3,069	40.3	2,393	31.4	2,156	28.3	7,611
1929 ...	3,431	35.3	2,917	30.0	3,360	34.7	9,708
1930 ...	2,324	33.5	1,865	26.9	2,753	39.6	6,942
1931* ...	1,610	40.2	907	22.6	1,488	27.2	4,005
1932 ...	1,455	27.1	1,686	31.4	2,222	41.5	5,363
1933 ...	3,041	28.7	3,009	28.0	4,655	43.3	10,745
1934 ...	5,593	30.9	5,516	30.5	6,979	38.6	18,088
1935 ...	3,338	27.1	3,751	30.4	5,241	42.5	12,330
1936 ...	1,232	26.9	1,327	28.9	2,022	44.2	4,581
1937 ...	677	27.7	713	29.1	1,056	43.2	2,446

* The figures for this year are exclusive of those for five districts.

An examination of the above figures will show that the proportion of small-pox mortality under one year of age to the total mortality, has gradually declined, while that for the age-period of above ten years has proportionately increased. There has thus been a steady shift in recent years in the incidence of small-pox to older age periods, clearly indicating the effectiveness of infantile vaccination in controlling small-pox infection.

35. The progress so far made in rural areas for providing infectious diseases sheds for treatment of small-pox has not been very satisfactory for reasons financial or otherwise. It is hoped that the local authorities will take a greater interest in the matter in future.

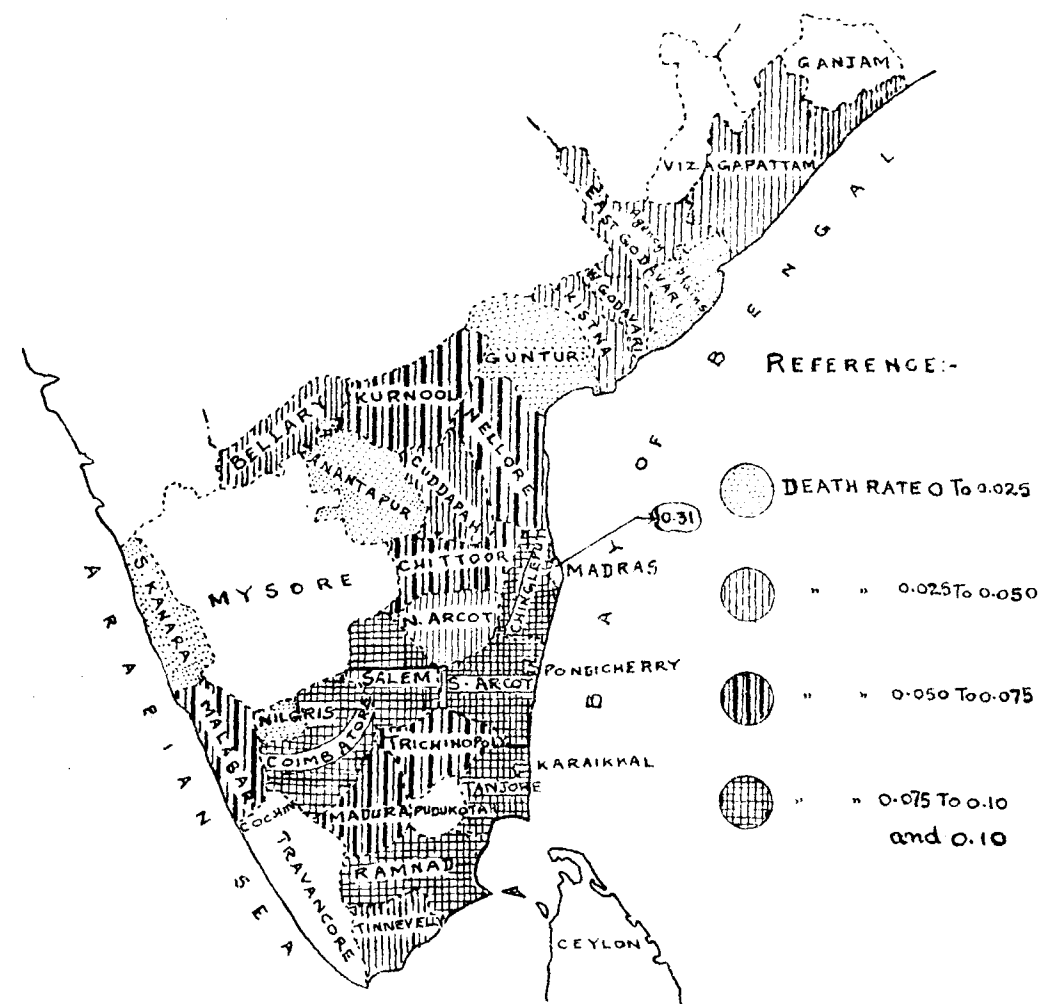
36. In accordance with the instructions issued by the Government of India, the details regarding the vaccinal conditions of small-pox cases treated in infectious disease sheds and isolation hospitals are furnished below:—

(a) Vaccinated in infancy as evidenced by one or more cicatrices...	693
(b) Stated to have been successfully vaccinated in infancy but no vaccination cicatrix present...	103
(c) Stated to be unvaccinated or unsuccessfully vaccinated and no vaccination cicatrix present	99

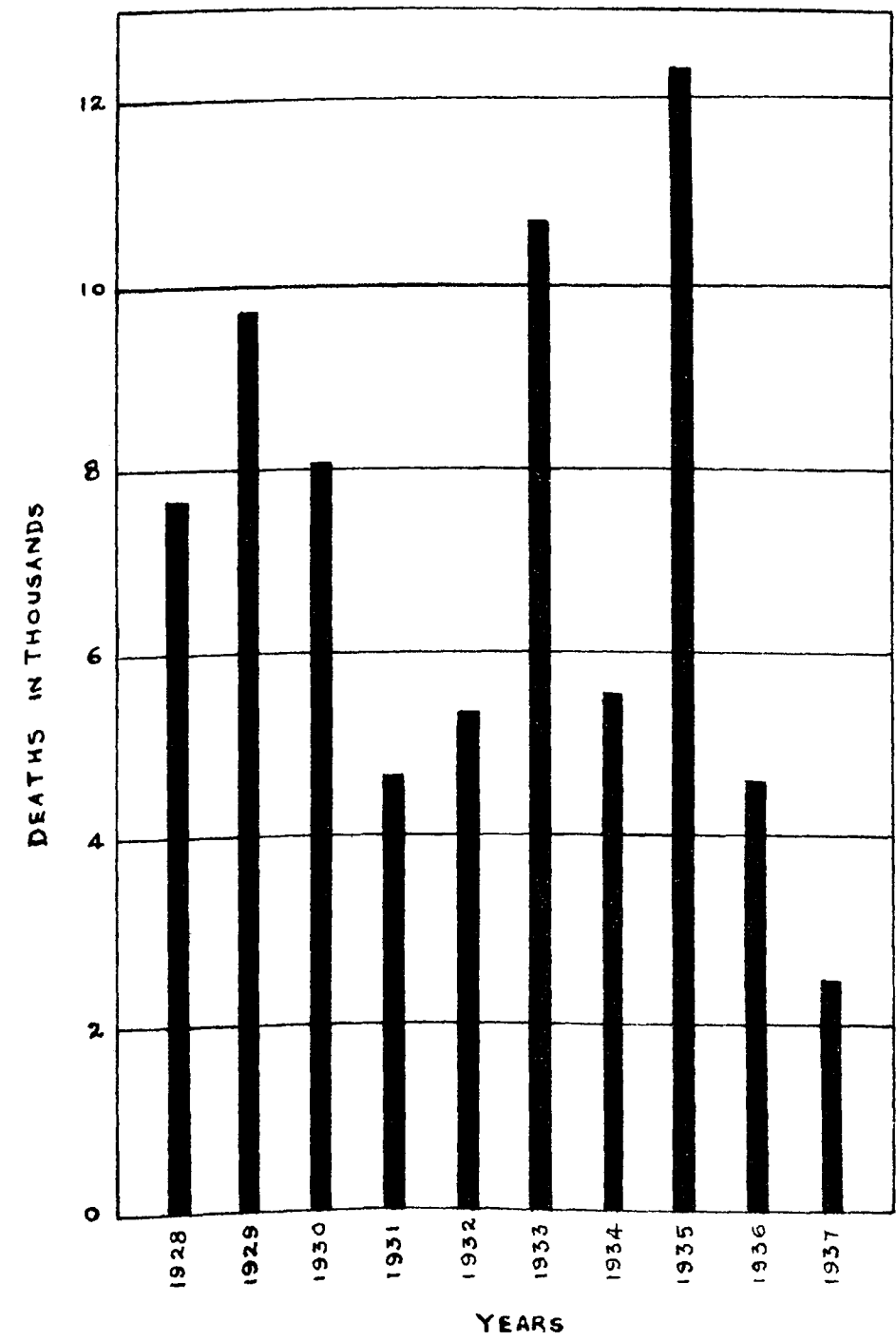
MADRAS PRESIDENCY

MORTALITY FROM SMALL-POX

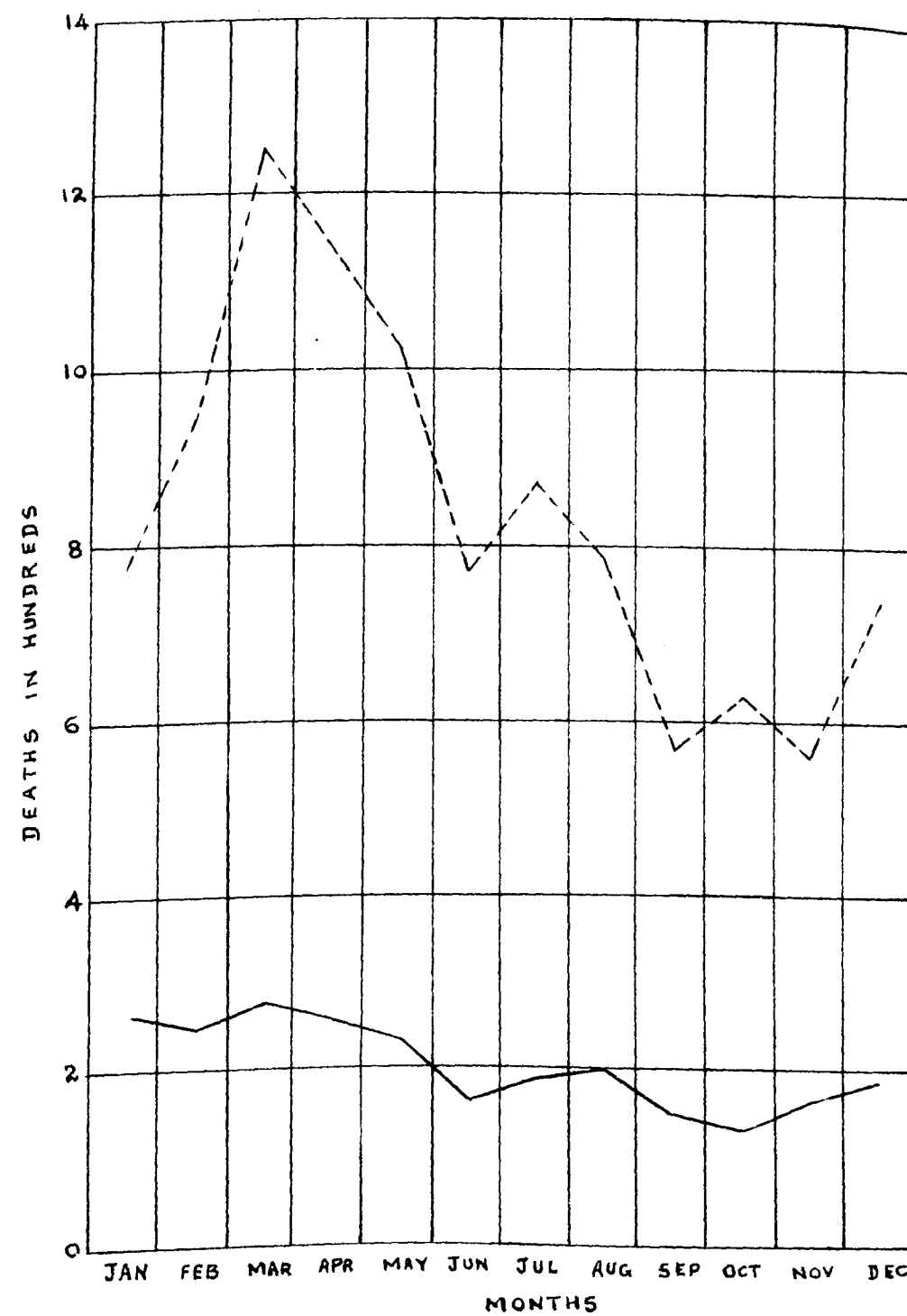
1937



GRAPH II(a)
DEATHS FROM SMALL-POX IN THE MADRAS PRESIDENCY
DURING THE YEARS 1928 To 1937

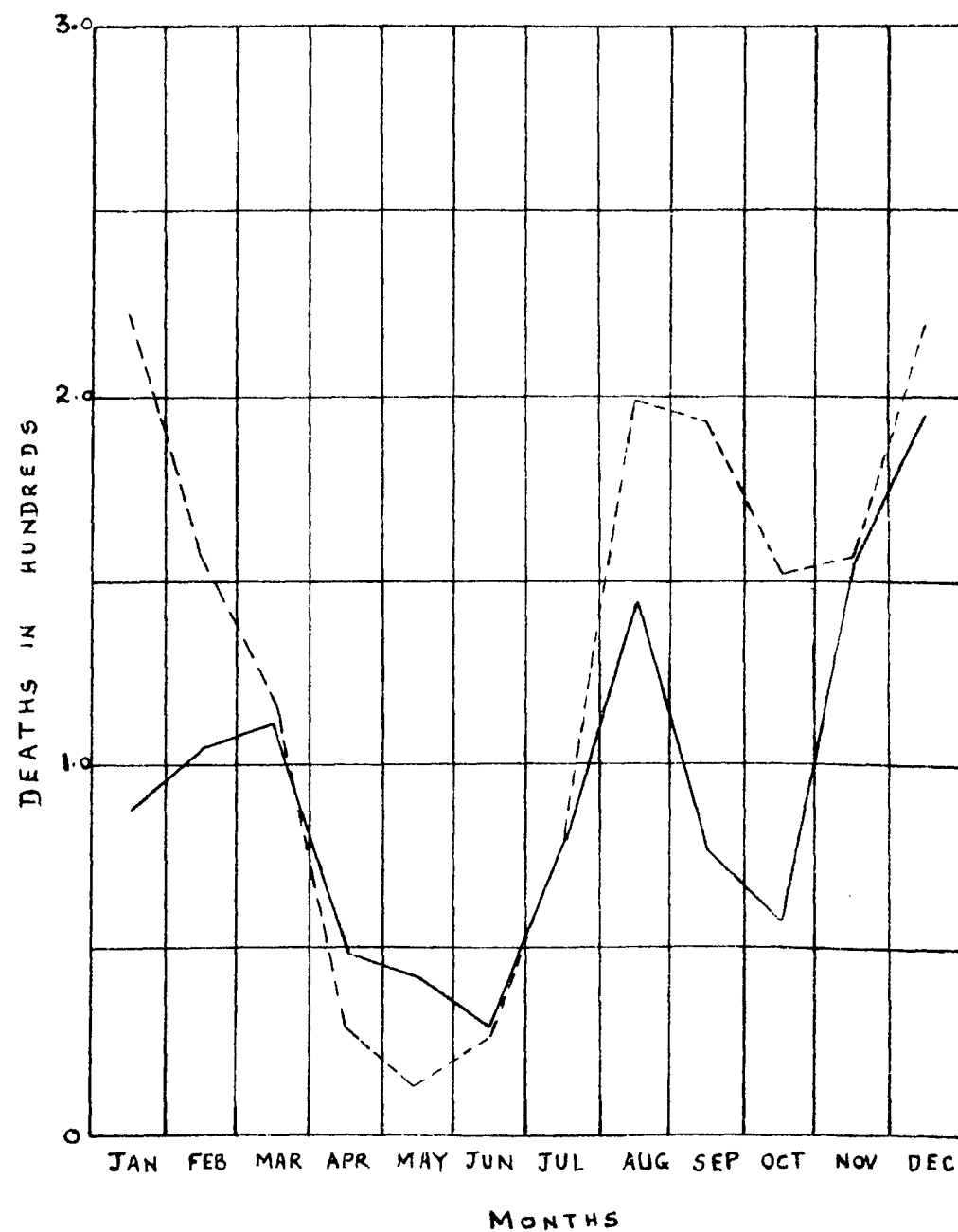


GRAPH II(b)
 MEAN MONTHLY DEATHS FROM SMALL-POX IN 1932-36
 AND MONTHLY DEATHS IN 1937



----- 1932-36

GRAPH III (b)
 MEAN MONTHLY DEATHS FROM PLAGUE IN 1932-36
 AND MONTHLY DEATHS IN 1937



Reg. No. 45

1

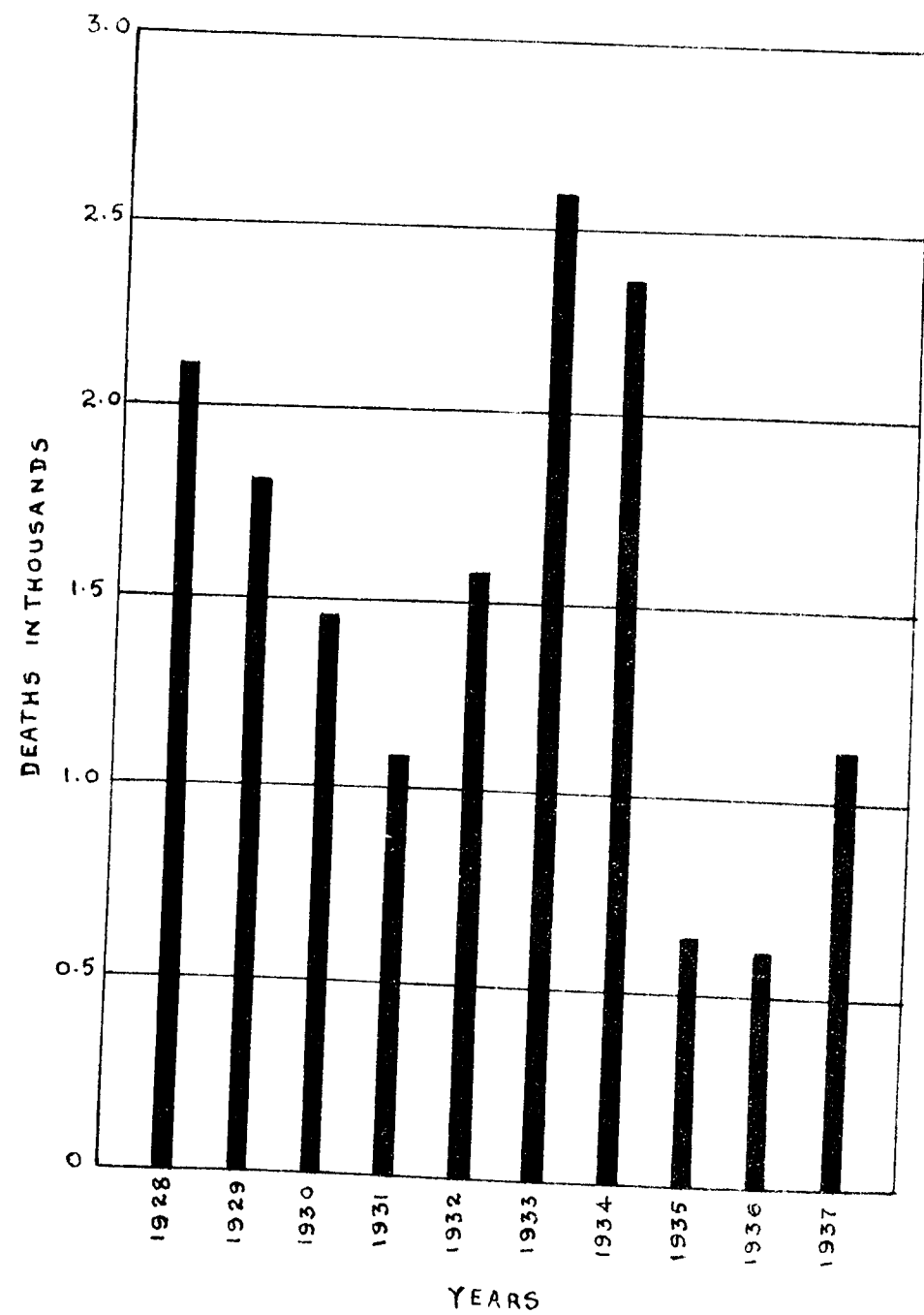
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----- 1932-36

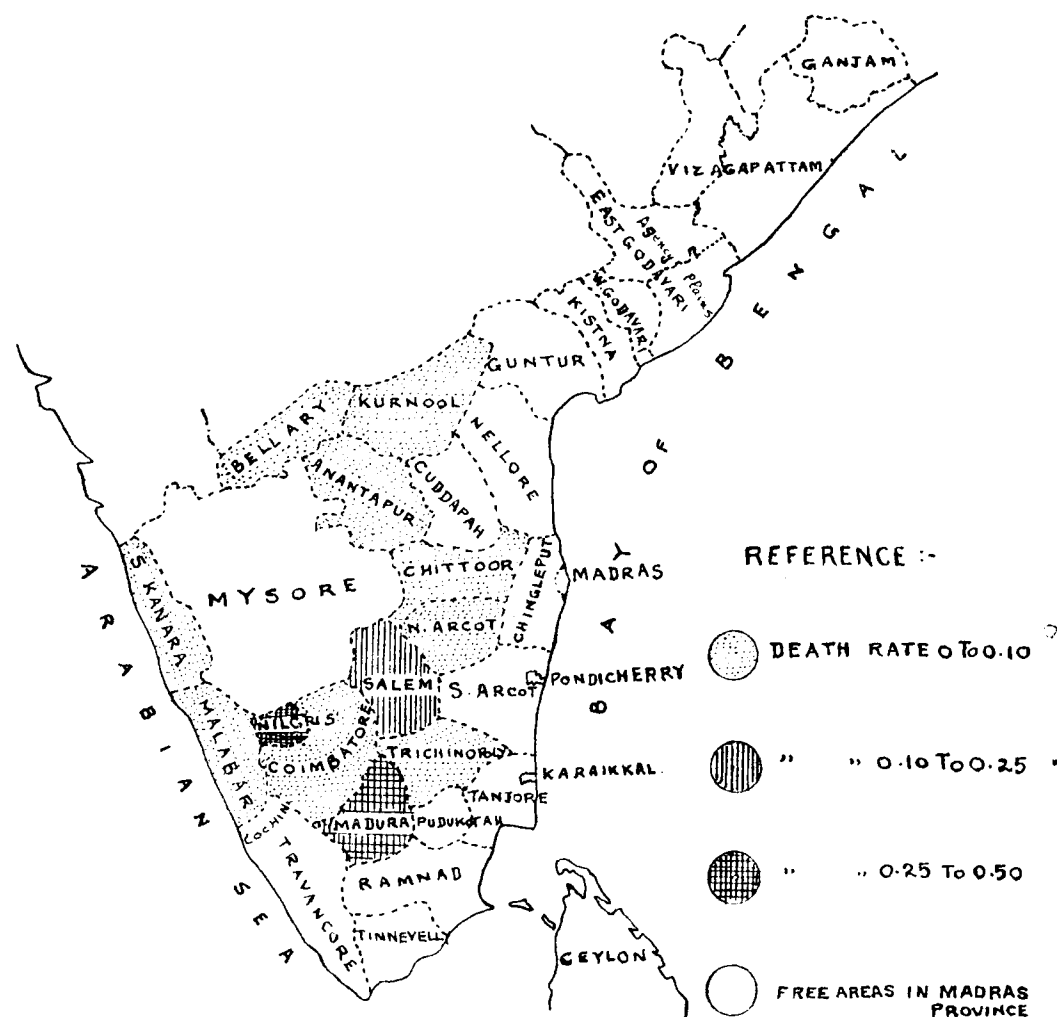
————— 1937

Vandyke, Survey Office Madras.
 1938.

GRAPH III (a)
DEATHS FROM PLAGUE IN THE MADRAS PRESIDENCY
DURING THE YEARS 1928 TO 1937



MADRAS PRESIDENCY
MORTALITY FROM PLAGUE
1937



Vandyke., Survey Office Madras.
1938.

Reg. No. 45
3
Copies 50 + 1340

Copies 50 + 1340

1938.

(d) Previously unvaccinated but vaccinated during the incubation period of small-pox ...	2
(e) Stated to have been successfully vaccinated ...	9
Total ...	906

PLAGUE.

37. 1,127 deaths from plague were recorded during the year as against 615 deaths in 1936. The largest number of deaths were recorded in the districts of Madura (541), Salem (334) and the Nilgiris (74). These districts alone accounted for 84 per cent of the total mortality from this disease. The other infected districts were Coimbatore (57), Bellary (42), Chittoor (37) and Anantapur (19).

Eight municipalities were also infected with a total of 147 deaths.

38. A statement of the comparative mortality from plague for each quarter during the past five years is furnished below:—

	1933.	1934.	1935.	1936.	1937.
First quarter ...	544	1,077	276	136	302
Second quarter ...	97	55	17	29	120
Third quarter ...	1,017	622	93	205	298
Fourth quarter ...	933	604	260	245	407
Total ...	2,591	2,358	645	615	1,127

The mortality was lowest in the second quarter and highest in the last quarter.

39. A noteworthy feature of the prevalence of plague during the year was its outbreak in the Nilgiris district which has remained practically free from infection during the last fifteen years. The infection was first introduced into Ootacamund through merchandise brought from Mysore State and later on it spread to Coonoor Municipality and some villages in the district. The infection in Madura district though severe was confined to the Cumbum valley where 31 villages were affected. In Salem district, the infection was fairly widespread in Hosur taluk which is the usual endemic area in the district. Kuppam Panchayat in Chittoor district was infected from Mysore State and the infection spread to the surrounding villages. The previous year's infection continued in the first quarter in Bellary and Anantapur districts.

40. The chief measures adopted for the control of plague infection were anti-plague inoculations, cyanogas fumigation, rat destruction and evacuation of infected localities. On the whole 151,225 anti-plague inoculations were done during the year as against 62,133 inoculations in 1936. The extensive use of cyanogas fumigation was responsible to a very large extent for the prompt control of plague in Ootacamund and Coonoor municipalities. In addition to Madura district, schemes for cyanogas fumigation were in operation in five districts and five municipalities. The results are encouraging and so proposals have been made to extend the scheme to some more districts and municipalities.

FEVERS.

41. 286,694 deaths were registered under "Fevers" giving a mortality rate of 6.52 per mille as against 271,668 deaths in the previous year with a death-rate of 6.18 per mille and an average death-rate of 6.69 per mille during the five-year period from 1932 to 1936. "Fevers" were responsible for nearly 27 per cent of the total deaths in the province. The mortality figures under this head and the specific death-rates in each district are furnished in statement IX of Appendix I. As in previous years, the highest mortality rates were recorded in East Gōdāvari Agency (16.04), Vizagapatam (13.86), Kurnool (13.70) and Cuddapah (10.74). Extensive malarial tracts are included in these districts. Tanjore (2.47), Madura (3.59), Chingleput (3.69), South Arcot (3.74) and Trichinopoly (3.94) were the districts that returned the lowest mortality rates under "Fevers".

10,727 deaths were registered under "Fevers" in the municipalities giving a death-rate of 2.90 per mille as compared with 10,809 deaths in 1936 giving a rate of 2.95 per mille. Pollachi (7.46), Narasaraopet (7.08), Peddapuram (6.92), Karur (6.25), Bezwada (5.84), Chirala (5.78), Ongole (5.70) and Tadpatri (5.63), reported high fever mortality rates, while seven municipalities recorded rates of less than 1 per mille.

15,510 deaths were registered under "Fevers" in the rural towns giving a death-rate of 6.19 per mille as compared with 14,911 deaths in 1936 giving a death-rate of 5.87 per mille.

The maximum incidence of Fever mortality was in the month of December while the minimum was in April.

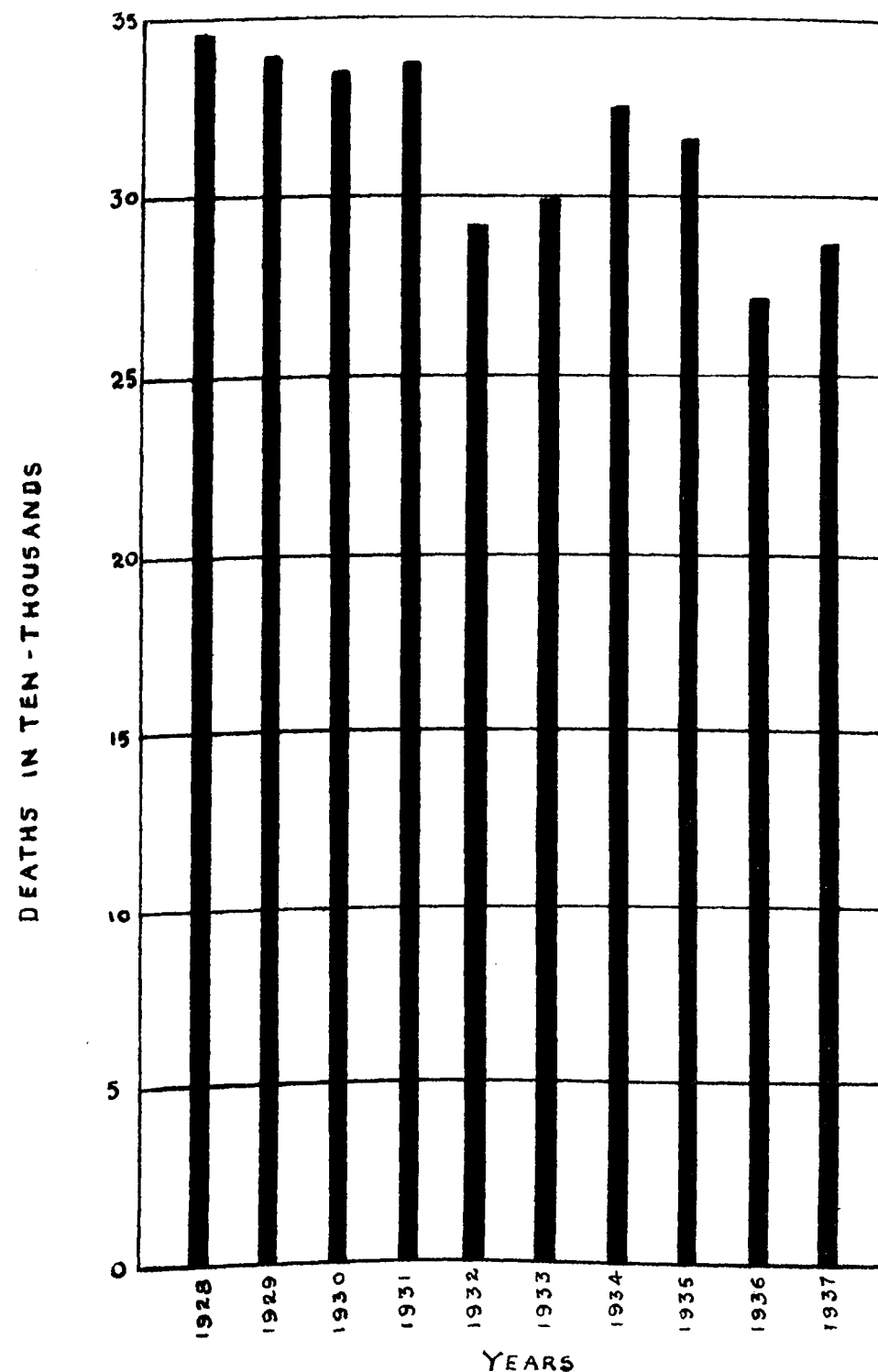
DYSENTERY AND DIARRHOEA.

42. 84,276 deaths were recorded under "Dysentery and Diarrhoea" in 1937 giving a death-rate of 1.92 per mille which is practically the same as the rate for the previous year. These causes were responsible for about a twelfth of the total mortality. The death-rates in each district and the monthly distribution are given in Table X of Appendix I. The maximum incidence was in the winter months of December and January while the lowest was in April. Chittoor (2.65), the Nilgiris (2.65), North Arcot (2.57), Coimbatore (2.57) and Nellore (2.51) districts had comparatively higher death-rates while East Gōdāvari Agency recorded the lowest death-rate of 0.86 per mille.

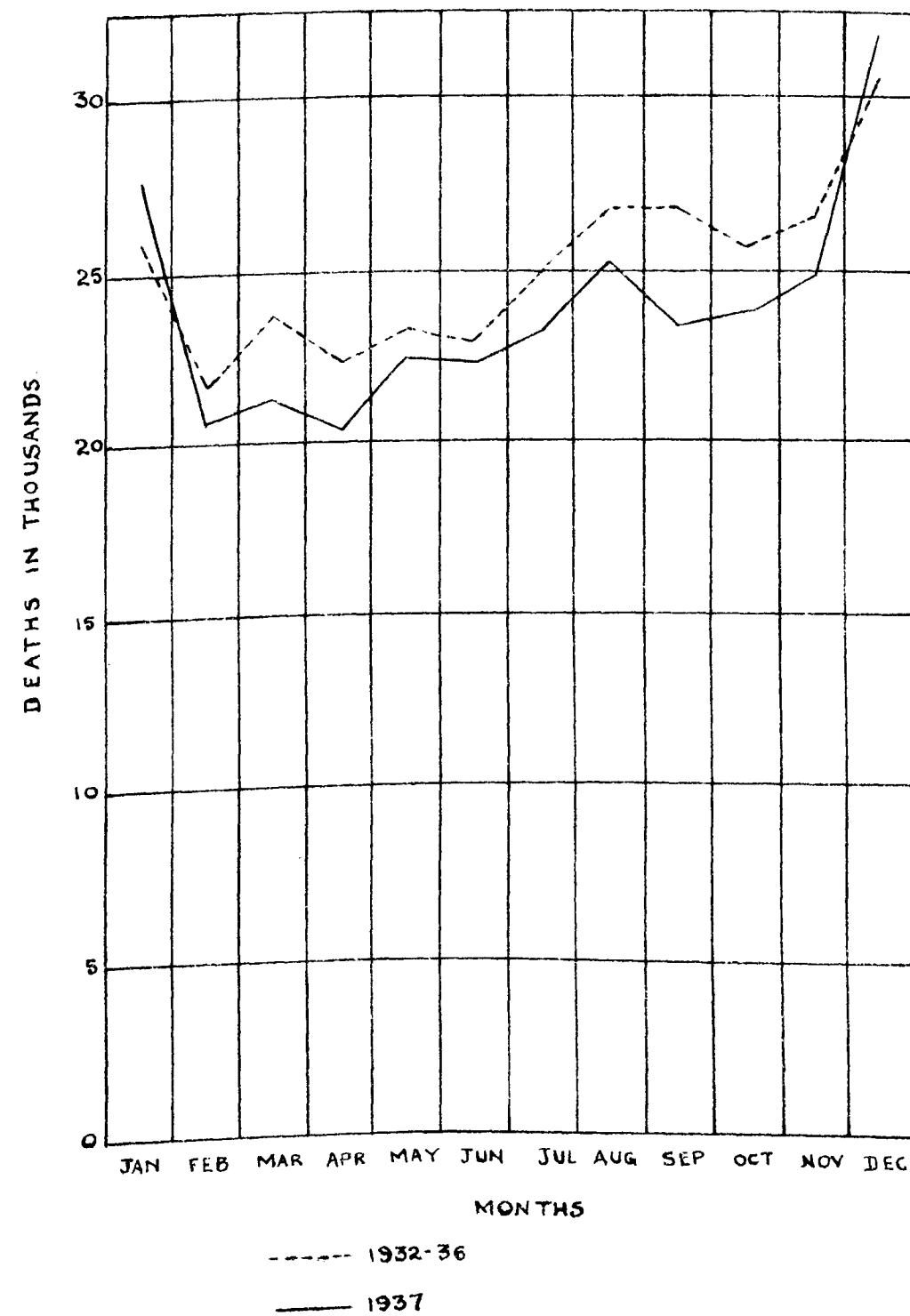
11,327 deaths were registered under Dysentery and Diarrhoea in the municipalities, giving a death-rate of 3.06 per mille as compared with 10,858 deaths in the previous year with a rate of 2.97 per mille. Chicacole reported the highest mortality rate of 9.10 per mille. The other municipalities which recorded high rates were Ongole (8.46), Tiruvannamalai (7.09), and Narasaraopet (6.17).

5,627 deaths from Dysentery and Diarrhoea were registered in the rural towns giving a rate of 2.24 per mille as against 5,476 deaths with a rate of 2.16 per mille in 1936.

GRAPH No. IV(a)
DEATHS FROM FEVERS IN THE MADRAS PRESIDENCY
DURING THE YEARS 1928 TO 1937

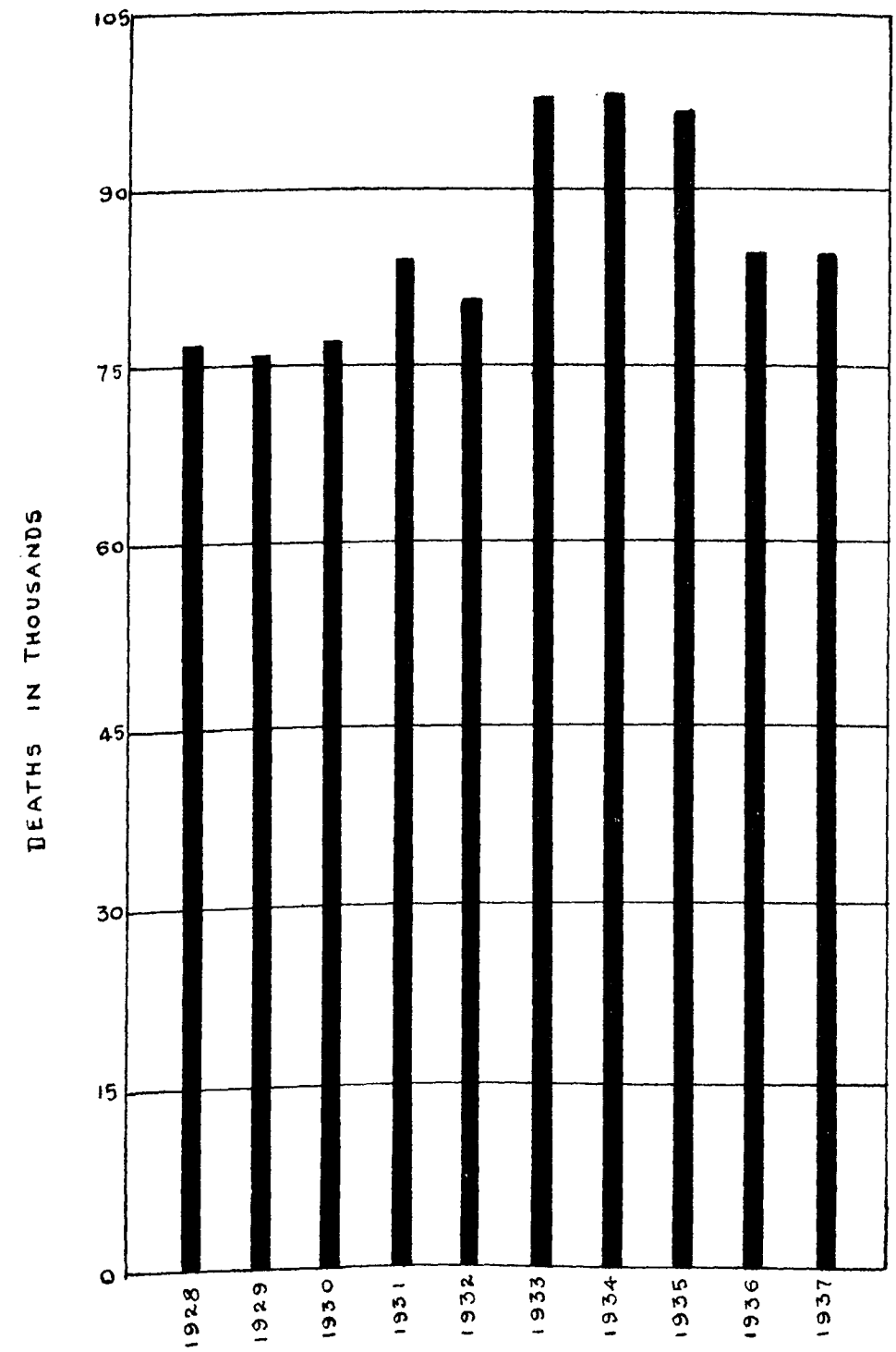


GRAPH IV(b)
 MEAN MONTHLY DEATHS FROM FEVERS IN 1932-36
 AND MONTHLY DEATHS IN 1937.

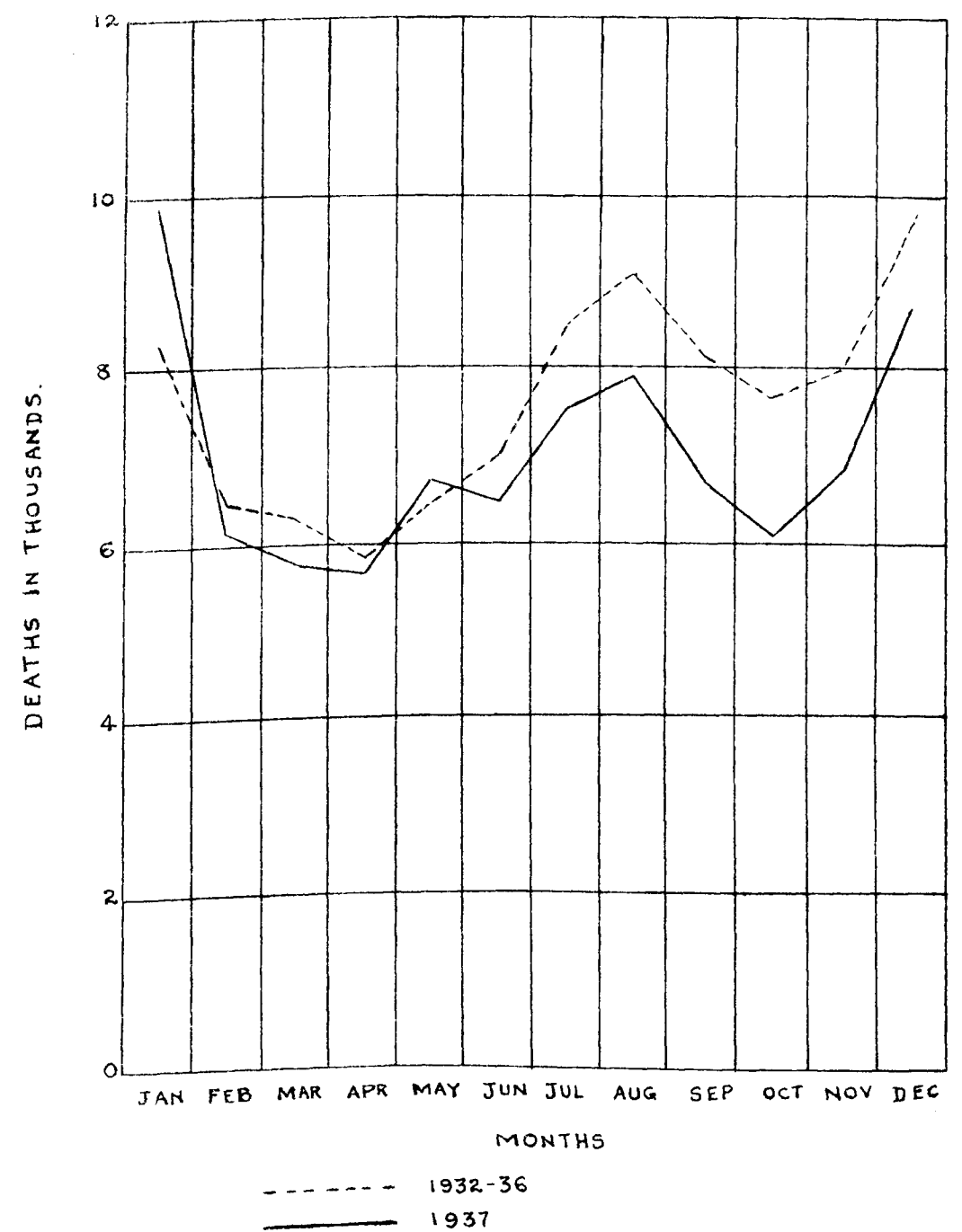


GRAPH NO. V (a)

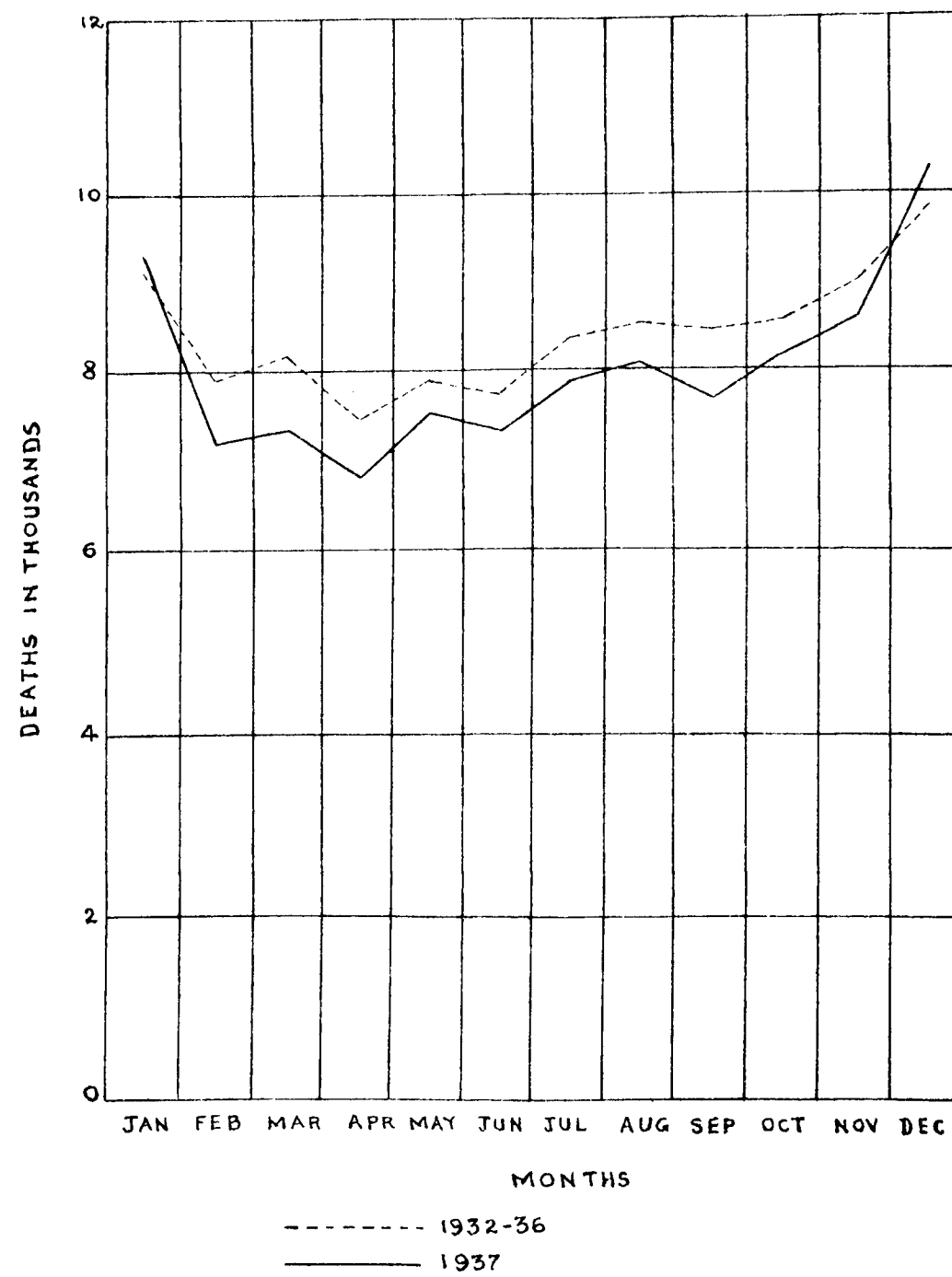
DEATHS FROM DYSENTERY AND DIARRHŒA IN THE
MADRAS PRESIDENCY
DURING THE YEARS 1928 TO 1937



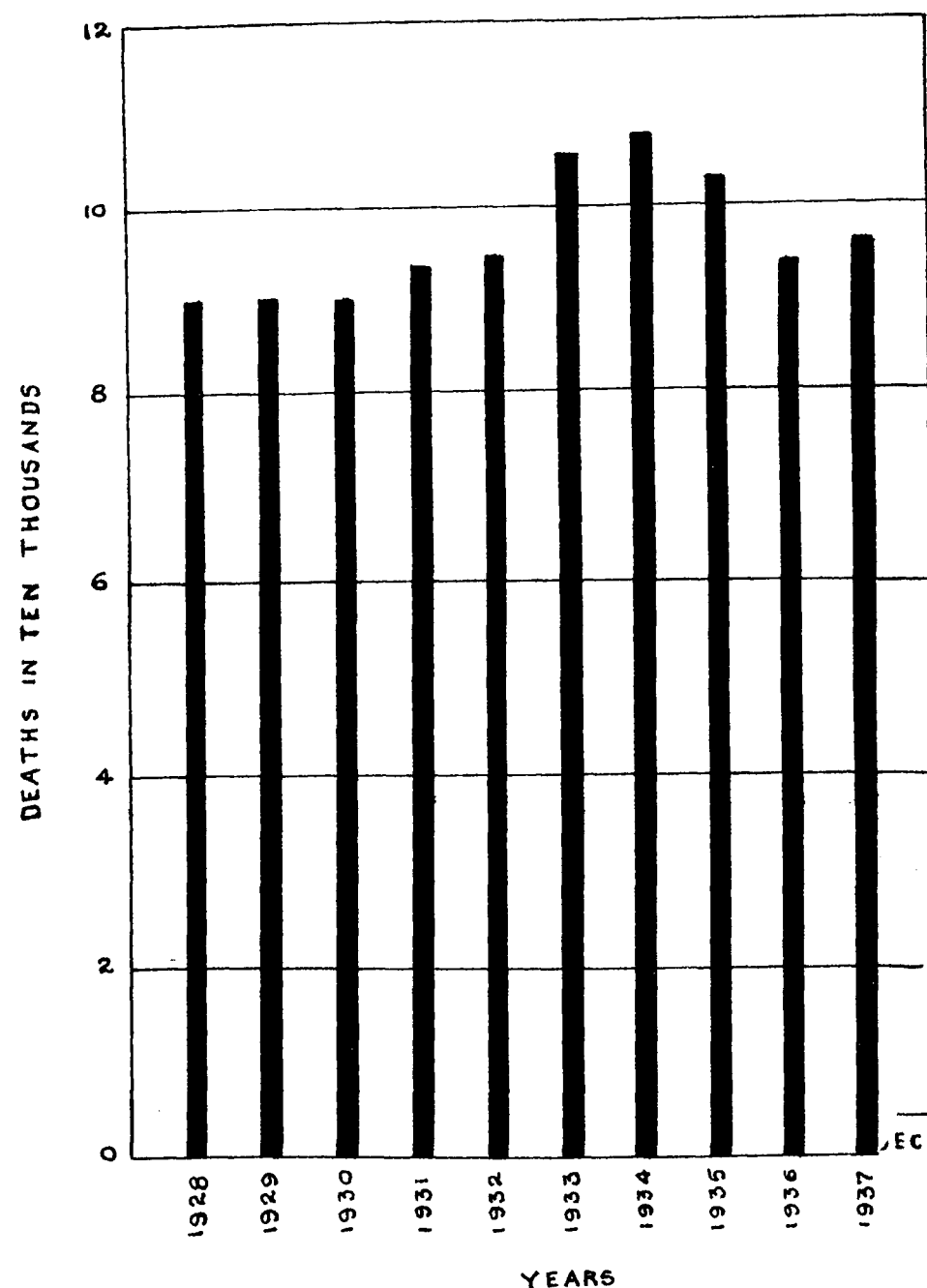
GRAPH $\bar{Y}(b)$
 MEAN MONTHLY DEATHS FROM DYSENTERY & DIARRHOEA IN 1932-36
 AND MONTHLY DEATHS IN 1937



GRAPH VI (b)
 MEAN MONTHLY DEATHS FROM RESPIRATORY DISEASES IN 1932-36
 AND MONTHLY DEATHS IN 1937.



DEATHS FROM RESPIRATORY DISEASES IN THE
MADRAS PRESIDENCY
DURING THE YEARS 1928 TO 1937



RESPIRATORY DISEASES.

43. There was a slight increase in the number of deaths registered under respiratory diseases from 93,842 deaths in 1936 to 95,906 deaths in 1937, the mortality rates being 2.14 per mille and 2.18 per mille respectively. Table XI of Appendix I gives the monthly mortality and the death-rates in each district. Nine per cent of the total number of deaths in the province was due to Respiratory diseases. The Nilgiris (4.19), Madura (3.57) and Coimbatore (3.22) districts recorded high death-rates under this head while the lowest death-rate of 1.12 per mille was returned from Tanjore district. As usual the winter months of December and January had the maximum mortality from respiratory diseases while the minimum death-rate was recorded in April. The urban population had a death-rate of 4.6 per mille from respiratory diseases as compared with a death-rate of 1.8 per mille in the rural population. Congestion, overcrowding and insanitation are favourable for a high incidence of respiratory diseases.

23,600 deaths from respiratory diseases were recorded in municipalities giving a death-rate of 6.38 per mille as against 22,285 deaths in 1936 with a death-rate of 6.09 per mille, Madras (12.37), Palni (12.28), Kodai-kanal (11.96), Madura (11.88), Bellary (9.82) and Anakapalle (9.24) reported high death-rates under this head while Narasaraopet municipality had the lowest death-rate of 0.71 per mille.

There were 4,870 deaths from respiratory diseases in the rural towns giving a death-rate of 1.94 per mille as against 5,120 deaths in 1936 giving a death-rate of 2.01 per mille.

PULMONARY TUBERCULOSIS.

44. No statistics are available about the incidence of the disease in this Province. Tuberculosis is not specified as a separate cause of death in the village death registers. Statistics of mortality from Pulmonary Tuberculosis are available only in municipal towns. 6,626 deaths were recorded under this head in municipalities giving a death-rate of 1.79 per mille. Pulmonary Tuberculosis accounted for five per cent of the total deaths in these municipalities.

RABIES.

45. 826 deaths were registered under Rabies during the year under report as against 666 in the previous year.

OTHER CAUSES OF DEATHS.

46. A large number of deaths are usually registered under "All other causes," as there are only a few columns in the death registers of villages to record specific causes of deaths. 532,750 deaths came under this group during the year. They represent nearly 51 per cent of the total mortality. With the present agency for the registration of deaths, it was thought inadvisable to provide for a more detailed classification, as incorrect figures will be more misleading than no figures at all. The detailed returns received from fifteen selected municipalities employing

First-class Health Officers have been consolidated in Annexure A. An attempt has been made to classify the causes of death in the case of these municipalities with a view to determine the proportion of the various causes of death which contribute towards urban mortality rates.

PLAGUE RESEARCH.

47. Owing to reduced grants from the Indian Research Fund Association and the Travancore Government, plague investigations in the Cumbum valley were restricted during the year mainly to observations relating to the application of cyanide products in anti-plague campaigns. Plague control operations were mainly carried out by the Provincial and District Board plague staff, the field research unit with a few fumigation squads served to fill the gaps in emergent situations or to supplement their work in infected villages and for special observations directed to improve the technique and widen the scope of cyanide fumigation.

48. 219,315 rat burrows and 6,374 cracks in mud walls in 31,927 houses in 27 localities were fumigated by the research staff alone. 8,358 *R. rattus*, 596 bandicoots, 10,474 house mice, 151 musk rats, 2 field rodents (*Gunomys kok*), 17 snakes and 11 bats were recovered during these operations. No plague occurred in 8 out of 9 localities which were fumigated when they were imminently threatened with plague. Three villages were fumigated just as rat infection was noticed, and in two of these no further rat falls or human cases occurred, but in the third (Cumbum town) a rather severe epidemic ensued in spite of fumigation. If fumigation could have been completed in a shorter time with a larger staff, even this village would probably have escaped. Fumigation in villages where human plague had already set in, did not have any immediate and tangible effect on the course of the epidemic.

16,468 rodents obtained during fumigation were examined for plague infection. Emulsions of the pooled viscera were employed for group animal tests on 696 occasions and 43 positive results were obtained, 37 during the usual heavy plague season and 6 during the hot weather (2nd quarter of the year) or the usual light season of plague in the Cumbum valley. These group tests have been of considerable help in detecting early infection, where the routine examination of smears have failed to disclose latent infection. 162 carcasses of rodents were examined and 99 proved positive and 10 of these positives were obtained actually during the hot weather. 114 fleas were examined by animal tests in three groups and all the tests were positive. These fleas were trapped on guinea pigs from houses which had rat falls.

49. *Experimental fumigation of whole buildings.*—83 grocery shops and 16 houses were fumigated *in toto*, rendering them somewhat gastight, by simple devices. A total of 1,749 rodents were later picked up (1,605 from shops alone). These attempts at total fumigation have given very promising results. All rat harbourages can be simultaneously attacked only by such methods. The chief drawback to this method for general adoption is the unavoidable wastage of the fumigant. A concentration of 3 oz. of HCN. per 1,000 c.ft. was employed in these experiments. Attempts are being made to reduce the wastage of the fumigant by certain devices under trial.

50. *How often to fumigate to keep down rats at a steady low level.*—A thin population of rats breed faster than a thick one. Where villages have been fumigated at longer intervals than 3 months, this feature was specially noticed. As a result of the scrutiny of all available data of village fumigation and refumigation, it has been found that in endemic areas, unless fumigation is repeated once every quarter, the rat level cannot be maintained below the critical requirements for epizootic plague.

51. *Rat burrows versus cracks in mud walls for rat harbourage.*—With repeated fumigation of rat holes in houses, it has been observed that rats tend to shelter largely in the open wide cracks in the mud walls. To decide which provides better harbourage, 1,041 rat holes and 100 wall cracks were explored after fumigation, to collect the dead rats within them. 873 of the burrows (84 per cent) and 89 of the cracks (89 per cent) were found actually infested and from the burrows on an average 3.2 rats and from the cracks 4.9 rats were recovered. The need for special attention to the cracks in walls should therefore be emphasized in all routine fumigation campaigns.

52. *Fleas in rat nests.*—73 rat nests from cracks in the walls, thatch roofs, the hollows of bamboo rafters, etc., were studied to determine their flea content. Out of 58 rat nests from wall cracks examined, only 33 yielded fleas. A total of 2,436 fleas were collected from them. Similarly out of 15 nests from thatch roofs 9 had 916 fleas. It included a nest from a bamboo rafter which yielded 516 fleas during a period of 47 days. The fleas from thatch roofs and cracks of walls were almost identical in its fauna and was found to be 15 per cent *astia*, and 85 per cent *cheopis* while during the corresponding period the aggregate fleas collected from rats caught in traps were composed of about 30 per cent *astia* and 70 per cent *cheopis*. The large prevalence of fleas in rat nests recovered from underground rat holes has already been demonstrated during the earlier years of work in the Cumbum valley. These observations are considered to be important in as much as they show where fleas ordinarily flourish and where disinfection measures have to be particularly directed.

53. *Diagnosis of plague infection from decomposed carcasses.*—The diagnosis of infection in decomposed rodent carcasses, though very important to plague workers, is really difficult. Bone marrow material has been found to yield virulent plague bacilli up to 4 days of decomposition, when it is difficult to demonstrate them from any viscera usually employed for this purpose.

54. *Rat destruction by employing patent virus preparations.*—Certain bacterial viruses considered to be specially lethal to rats but safe to man and domestic animals, have been for long in use as raticides in temperate regions. The "Liverpool Virus" was experimentally tried to see how far it is effective under tropical conditions. Results were uniformly disappointing both as regards its lethal effects on individual rats and the spread of infection from one rat to another.

55. *Cheap methods of rat-proofing.*—With a view to avoid cracks in walls, sand and red earth were mixed in varying proportions and walls were built with such mixtures. Walls built of earth only, cracked as soon

they were dry, while the tendency to crack became less and less as the proportion of sand was increased. The optimum for Cumbum Valley appears to be sand and earth in equal proportions and plastered over with ant-heap earth.

FILARIASIS.

56. Filariasis is known to be widely prevalent in this province more particularly in towns with defective drainage systems. It is a disease which though not very fatal by itself, is responsible for a good deal of morbidity and suffering in the affected population. There is yet much to be known about the causation, distribution, mode of transmission, prevention and treatment of Filariasis. The need and scope of extensive field studies in elucidating the unknowns in this disease have been well recognized by medical and public health workers of all filarial areas. It was therefore decided to study the field materials available at Saidapet and other environs of Madras where filariasis is reputedly hyper-endemic and the Research Health Officer commenced this work from June in co-operation with Dr. R. G. Cochrane who is carrying on certain field studies on childhood leprosy. The programme is to make a detailed survey of the various clinical manifestations of filariasis in the municipal area, to examine the night blood of a representative sample of the population with a view to determine the incidence of filarial infection and the characteristics of the infecting filaria, to determine the rate of infection in the species of mosquitoes concerned in transmission and to correlate the species of filaria observed in them with those encountered in man. Such problems as the longevity of the infective stages of filarial larvae outside the body of the mosquito whether infected mosquitoes generally deposit infective larvae in water and whether such infective larva can penetrate unbroken skin and infect man, are all under investigation.

57. *Clinical survey.*—The survey is as yet incomplete, but the available data have been tabulated for representative areas of the town on the basis of the occupation or period of domicile of the people, and its location with respect to the central hyper-endemic focus. Out of 1,526 persons examined for evident signs of filarial infection, 271 (17.75 per cent) were found to have clinical filariasis but only about 5 per cent of them had elephantiasis. The arm and scrotal types of elephantiasis were comparatively much fewer than the elephantiasis of the leg. Elephantoid affections of the female genitalia have not so far been encountered. Enlargement of groin glands was found to be very common, but what proportion of them is really filarial cannot be stated with certainty. The manifestation of filarial disease in children was found to be rare and there was no marked difference in sex incidence.

58. *Microfilaria rate.*—Night bloods of 179 persons were examined for microfilaria. 72 of them had definite clinical signs while the rest were absolutely free from any clinical manifestations. Though the number examined was small yet it is interesting to note that over 10 per cent of the people who had no signs whatever and a good proportion of those who had only vague signs (fugitive swellings, etc.) showed filarial infection. The microfilaria belonged exclusively to the species *W. bancrofti*.

59. *Mosquito survey.*—The mosquitoes in Saidapet were found to be *C. fatigans*, *A. subpicatus* and *Aedes scutellaris*. The first one is the transmitting mosquito for *W. bancrofti*. *Culex fatigans* breed plentifully in cesspools and other stagnant collections of water around habitations. Saidapet with no system of drainage for efficient disposal of sullage and sewage is full of such stagnant collections of water which afford ideal facilities for mosquito breeding. The filarial endemicity of the town is a natural result of this condition.

Out of 1,387 mosquitoes examined, 327 (23.6 per cent) were found to contain larval forms of *W. bancrofti* in various developmental stages. The heaviest mosquito infection rates were found just outside the central area which has a distinctly higher filarial disease rate. The high rates were also associated with heavy rainfall and humidity figures and low diurnal variations of temperature.

60. *Mode of transmission of filarial larvae.*—The longevity of the larval forms of filaria outside the body of the mosquito was found to be in general agreement with previous findings of other workers that they do not survive for over 6 hours ordinarily in tap water. In one instance however a few larva from the proboscis of one mosquito actually survived for 18 hours.

Infected mosquitoes were kept in the laboratory in chimneys over watch glasses containing water. The water in the watch glasses was as a routine examined for filarial larva but so far no positive findings have been made.

The infective larvae were put over prominent capillaries on the outstretched wings of anaesthetised bats kept under microscope to see whether they are capable of penetrating unabraded skin but so far no positive results have been obtained.

LEPROSY CAMPAIGN.

61. The Government in their order No. 1028, P.H., dated 28th April 1937, sanctioned a scheme for intensive and concentrated leprosy work in certain selected districts and the continuance of the special temporary staff consisting of one Chief Leprosy Officer, five Sub-Assistant Surgeons, five nursing orderlies, one compounder and one peon under the Chief Leprosy Officer. In addition to the above staff, one Special Leprosy Officer for Salem district, two District Board Leprosy Officers and one Special Medical Officer in Salem District were also employed on leprosy work. Their main activities were to develop anti-leprosy work in the areas included in the scheme, to carry on propaganda, detailed survey and follow up work, to examine all children in the area, to organize and conduct clinics on model lines, to train other medical officers in leprosy work and to make a detailed study of the disease in relation to local, social and economic factors. It was also decided that while the curative side of leprosy work is under the Medical Department, the preventive side should be taken up by the Public Health Department and for this purpose, Government sanctioned the deputation of Health Officers for a short course of training on the modern methods of Leprosy prevention at the Lady Willingdon Leper Settlement, Tirumani, Chingleput District. The first batch of Health Officers was trained in August 1937. The Health

staff have already been circularized to do intensive propaganda and to compile a preliminary villagewar list of lepers.

The total number of leprosy clinics during the year was 442 as against 445 in 1936. These clinics had an attendance of 777,188 patients, the new admissions being 33,038.

In deference to the wishes of the B.E.L.R. Association (Indian Council) the Madras Provincial Committee for Leprosy Relief was abolished as per G.O. No. 1894, P.H., dated 3rd August 1937 and the Madras Provincial Branch of the B.E.L.R. Association (Indian Council) was constituted on the basis of a larger membership and wider spheres of activity to deal with all questions relating to the anti-leprosy campaign in the province and to administer the funds allotted by the Indian Council. It is proposed to affiliate the District Leprosy Relief Councils which are at present functioning in certain districts to the Provincial Council and after such affiliation the expansion of anti-leprosy work in the Province is bound to follow.

MALARIA CONTROL.

62. The following investigations were carried out:—

(a) Preliminary investigation to draw up schemes for the utilization of the Indian Research Fund Association grant in Cauvery-Mettur Project (Tanjore district), Wynaad and South Kanara.

Pattukkottai town and the surrounding villages within a radius of about ten miles, malarious localities in Wynaad taluk and South Kanara district had to be investigated twice, once with the Engineering Expert of the Rockefeller Foundation and subsequently with the Director, Malaria Survey of India.

(b) Uttangarai-Salem district—Malaria survey:

Detailed investigation into the malaria problem of this place was carried out in two different seasons. A conference of officers of Revenue, Health, Engineering and District Board Departments has been suggested to discuss certain proposals for drawing up a scheme of permanent measures.

(c) Papanasam Hydro-electric project area—Malaria survey:

A detailed malaria survey of the locality was carried out with reference to the location of labour camps in this extremely malarious area and also for putting up proposals for the prevention of the disease before and during the construction of the Hydro-electric scheme. Proposals have been submitted to the Chief Engineer for Electricity. Anti-malarial measures must be undertaken if untoward developments and stoppage of work are to be avoided.

Anti-malarial work in Gudalur and Chintapalle were checked with reference to the reports that they were not satisfactory. As a result of these inspections, minor improvements and alterations have been carried out. The effect of the measures on the malaria incidence of the places will be watched in future.

63. The results of anti-malarial operations in Hospet, Krishnadevipeta, Rameswaram and Vriddhachalam continued to be satisfactory. The excellent achievement in Krishnadevipeta is a matter for great satisfaction

The District Health Officer, South Arcot, has reported that as a result of anti-malarial operations carried out in Vriddhachalam panchayat, malaria has practically disappeared from the place.

The Malaria Investigation Unit at Bellary continued to work during the year, but it was felt that for a proper investigation, a bigger organization was necessary. The present investigation was therefore discontinued.

Wynaad taluk in Malabar, Pattukkottai taluk in Tanjore district and the coastal areas north of Madras have been selected for investigation and control under the scheme to be financed by Madras Government and the Government of India through the Indian Research Fund Association.

The necessity for establishing an investigation unit at Rampa-Chodavaram in East Godavari district for studying agency malaria is keenly felt. Proposals will be considered in 1938.

Advice was given with reference to the specific local problems in the control of mosquito breeding in the following municipalities:—

Cocanada, Bezwada, Tenali, Tuticorin, Kumbakonam, Mayavaram, Cuddalore and Trichinopoly.

64. The Provincial scheme of free quinine distribution was in force in 15 districts. The Cauvery-Mettur Project Grand Anicut Canal area in Tanjore district, Chintalapudi and Kovur taluks of West Godavari district and Uddanam area of Vizagapatam district were included in the scheme during the year. About 1,600 lb. of quinine were actually distributed free and about 120,000 persons received treatments out of a million and a half who had the benefit of the scheme.

The work of free quinine distribution in Kodaikanal hill villages has increased and the necessity is felt for a separate Health Inspector for supervision work.

There was an epidemic of malaria in the sea coast villages of Nellore district and prompt quinine distribution was undertaken.

The Special Medical Officer for Malaria appointed by District Board of Chingleput continued to work in malarial villages of Saidapet and Ponneri taluks.

The difficulty of free quinine distribution in Malabar district where villages are scattered has been brought to the notice of Government. Unless the District Board appoints about 4 Sanitary Inspectors for organizing and supervising quinine distribution work, satisfactory results cannot be expected.

Uddanam area on the north-east corner of Vizagapatam district reported epidemic malaria as in the previous year. This locality is about 40 miles south of the Chilka lake area in which malaria is supposed to be carried by *A. sundaius*—the same mosquito that has caused a problem in Calcutta. It will be interesting to find out if *A. sundaius* is the carrier species in this area.

The Government of India stock of quinine is also being distributed in other malarious area of the province through the District Economic Councils.

Distribution of quinine by sale is being carried on through Post Offices. New agencies such as the village headmen and schoolmasters

have also been employed for distributing quinine by sale. The system of sale of "treatments" either of 10 or 20 tablets has been introduced to impress the need for taking a minimal dose for the cure of an attack of malaria. Whether the system of packet treatment is a justifiable change will be looked into and a report sent to Government.

FAIRS AND FESTIVALS.

65. There were 680 festivals during the year and more than 500 of them occurred during the first half of the year. As usual, the sanitary arrangements at important festivals in rural areas were supervised by the District Health Officers while others of less importance were attended to by the Health Inspectors. In Municipalities having Health Officers, the Municipal Health Officers were responsible for the conduct of sanitary arrangements and in other Municipalities, the advice of the concerned District Health Officers was sought for.

66. Funds were provided by the local bodies concerned. Contributions were also obtained from the temple authorities wherever possible. All the festivals in the presidency passed off without any serious outbreak of cholera. Local outbreaks in a few instances were however traced to returning pilgrims from some of the festivals. It has to be stated in this connection that the recommendations of the Public Health Department were not carried out in full during certain festivals, as sufficient funds were not sanctioned by the local bodies concerned. The necessity for making adequate arrangements during all festivals including minor ones has been urged on them and it is hoped that the recommendations of this department may be carried out completely in future.

67. In accordance with G.O. No. 1129, P.H., dated 1st August 1936, regarding Police aid during fairs and festivals, an agreement in the majority of the districts, has already been arrived at by the District Health Officers with the District Superintendents of Police. The Railway authorities also co-operated with the Health staff in making sanitary arrangements and special trains were run during festivals wherever found necessary.

68. The preliminary arrangements for the great Mahodayam festival which takes place once in about 20 to 30 years were carried out during the year. The festival was to come off on 31st January 1938 and the most important centres are Point Calmère in Tanjore district, Rameswaram and Dhanushkodi in Ramnad district and Mahabalipuram in Chingleput district.

RURAL SANITATION CAMPAIGN.

69. The activities of the Rural Sanitation Campaign were directed mainly towards the control of hookworm infection and prevention of soil pollution. There are six Rural Sanitation Units for the purpose. The Rural Sanitation Unit in West Godavari district was transferred to Nellore district and the one in East Godavari to Kurnool district. At the end of 1937 the units were working in the districts of Ramnad, Tinnevely, Tanjore, The Nilgiris, Nellore and Kurnool. They were engaged on

(1) Hookworm survey, (2) educational propaganda on hookworm disease and dangers of soil pollution, (3) Mass treatment for hookworm and (4) construction of borehole and trench latrines in rural areas.

70. *Hookworm survey.*—In addition to the routine examination of stools carried out by Rural Sanitation Units, two special investigations were conducted by the Rural Sanitation and Propaganda Officer during the year. The students of the Young Men's Christian Association, College of Physical Education, Saidapet and School children of the Theagarayanagar school, Mambalam, were examined and it was found that 21 per cent of the former and 46 per cent of the latter were infested with hookworm. On the whole 10,073 samples of faeces were examined during the year and 5,161 of them were positive for hookworm ova giving a percentage incidence of 51.

71. *Propaganda.*—127 cinema shows, 570 magic lantern demonstrations and 1,052 lectures and talks with illustrated charts on hookworm were conducted by the Rural Sanitation Units during the year to a total audience of about 3 lakhs. 16,366 pamphlets and bulletins were distributed in the course of these lectures. The units took an active part in Health week celebrations in the districts and exhibited borers, models of borehole latrines, pictures, posters, etc. The portable cinema equipment in the Rural Sanitation section was given on loan to seven voluntary associations during the year under report.

72. *Mass treatment.*—168,902 treatments for hookworm were given during the year, of which 52,594 treatments were carried out by the Rural Sanitation Staff and the rest by Medical Officers in charge of hospitals and dispensaries.

73. *Provision of latrines.*—898 latrine seats were constructed during the year and 221 seats were either reconstructed or repaired. Most of the construction work was done in Ramnad, East Godavari and West Godavari districts.

In accordance with G.O. No. 765, P.H., dated 1st June 1922, hookworm reports were received from all local bodies, except Kistna. These reports show that on the whole 203,141 treatments, 12,977 lectures, 3,062 magic lantern demonstrations, 176 cinema shows and 240 exhibitions were conducted. 1,501 public latrine seats and 10,090 private latrines were constructed and 2,761 seats were either reconstructed or repaired during the year.

HEALTH PROPAGANDA.

74. Health propaganda formed one of the routine duties of the Health staff and the work was organized throughout the whole year. There can be no doubt that considerable progress has been made in educating the public on matters relating to health. These educative efforts were carried on by means of cinema shows, lectures with or without magic lantern demonstrations, short talks to groups of villagers, health exhibitions and distribution of leaflets and pamphlets. Necessary propaganda materials were always stocked in the propaganda section and were

supplied on indent to local bodies, health staff and others. The leaflets and pamphlets are sold, while the magic lanterns, slides and films are issued on hire. On the whole, 431,209 leaflets and pamphlets and 18,571 posters were sold during the year. Four copies of cinema films were also sold realising a royalty of Rs. 541. Eleven cinema films were purchased during the year to replace some of the old copies.

75. The Health Weeks afforded considerable opportunity to focus public attention on health matters and for doing intensive propaganda work. A separate report on the health week will be submitted to Government. Health Exhibitions were arranged in the City of Madras along with the Park Fair Exhibition at the S.I.A.A. grounds and also during the All-Indian Congress Exhibition. These exhibitions were very popular and a large number of people were benefited.

76. Weekly bulletins on the public health condition of the province are being regularly published in the local newspapers. Advantage was taken of these bulletins to warn intending pilgrims about the prevalence of epidemics at festival centres.

The statement below gives a summary of the activities under health propaganda during the year:—

Lectures with magic lantern demonstrations ...	24,979
Lectures and short talks	183,035
Cinema shows	990
Health dramas	952
Health Exhibitions	1,903
Demonstrations by ballad singers	90

It is estimated that a total audience of about 93 lakhs of people attended these events.

77. The propaganda work in Municipal towns showed a general improvement when compared with the previous year. Several municipal councils have provided their sanitary staff with magic lanterns and slides. No magic lantern demonstrations were arranged by the Sanitary staff in the municipalities of Chicacole, Vaniyambadi and Walajapet. The District Boards of South Kanara and Kurnool have sanctioned the appointment of cinema operators for their cinema equipments.

The financial statement required in G.O. No. Ms. 784, P.H., dated 20th April 1929, is furnished in Annexure C.

POONAMALLEE HEALTH UNIT.

78. The Health Unit which was originally sanctioned as an experimental measure for a period of eighteen months from October 1935, has been further extended up to the end of September 1940 as it was found that the original period was too short to produce any tangible results and the progress achieved so far has been very encouraging. The cost of the scheme is met from the Government of India grant for Rural Development supplemented by a contribution from the Rockefeller Foundation of America. The latter is on a sliding scale of 50, 40, 30 and 20 per cent of the total expenditure of each year commencing from April 1937.

79. The sanctioned staff for the Health Unit was further strengthened by the addition of one more midwife to meet the increasing demand for maternity service. There was considerable progress in maternity and childwelfare work. 269 clinics were held during the year with an attendance of 2,027 ante-natal cases, 2,245 infants and 1,986 pre-school children. The Woman Medical Officer and the Health Visitors made 47,337 home visits as compared with 27,666 in the previous year. 1,247 labour cases were conducted by the Unit midwives which came to 67.4 per cent of the total number of births as against 55.1 per cent in 1936. On the whole, 72.6 per cent of the births received skilled attention if the deliveries conducted by other trained midwives in the area are also taken into consideration. The midwives also made 17,110 ante-natal and 9,671 post-natal visits.

80. 1,228 school children in the area were medically examined either by the Health Officer or the Woman Medical Officer. 488 of them had one or more physical defects. Attempts were made to rectify such defects as far as possible and 334 children were attended to for the purpose.

81. Under a programme of intensive health education, 66 cinema shows, 296 magic lantern demonstrations, 692 health lectures and 8,032 informal talks on health subjects were given during the year. Five Health Exhibitions were also organized at different centres. The Health Exhibition at Poonamallee in connection with the National Health and Baby Week celebrations was opened by Lady Marjorie Erskine. It was a good show and secured a certificate of merit at the Imperial Baby Week Challenge Shield Competition.

82. The Hookworm survey was completed and it was found that the infestation is widely prevalent though not to such a high degree of intensity as to produce severe clinical symptoms. 2,334 persons were given hookworm treatments during the year.

83. The Health Inspectors made a routine inspection of 6,112 houses and as a result of their persuasion and advice, 2,456 backyards of houses were cleaned, 1,109 fly-breeding places were cleared, 160 borehole latrines were put up, 102 soakage pits and 208 earth drains were constructed and 55 windows were provided. Five hundred and ninety-five oilings were also done as an anti-mosquito measure.

84. The provision of safe drinking water supplies to villages engaged the special attention of the staff. Three borewells were constructed during the year from the contribution of Rs. 5,000 provided for the purpose by the Chingleput District Board. Free labour was supplied by the villagers. Other water-supply sources were systematically chlorinated whenever possible.

85. The corrected birth and death rates in the area were 39.89 per mille and 26.29 per mille respectively as compared to the Provincial rates of 38.72 per mille and 23.99 per mille respectively in 1937. No event has escaped registration. Fifty-six deaths from cholera were responsible for the high death rate during the year. The infantile mortality rate was 184.57 and the maternal mortality rate 7.02 per 1,000 births, 7,826 anti-cholera inoculations, 521 anti-typhoid inoculations, 1,255 primary Vaccinations and 6,447 Re-vaccinations were performed during the year.

86. With proper organization, staff and funds, it is quite possible to improve greatly the health and welfare of the rural population and the Health Unit has to a certain extent demonstrated what could be achieved in this respect. This novel experiment has attracted the attention of Public Health Workers in other provinces and several distinguished persons have visited the area during the year. The Health Unit has also served as a good training ground in rural health work for Health Officers, Woman Medical Officers, Health Visitors, Sanitary Inspectors and others.

PORT HEALTH ADMINISTRATION.

87. The Port Health Administration continued to be under the control of the Director of Public Health. To cope with the increasing work in his office in connection with Port Health Administration, the Government of India sanctioned the post of a separate clerk, from 1st April 1937. A separate driver for the motor launch in the Madras Port was also sanctioned during the year.

A brief summary of the work of the Port Health Department is furnished in Annexure H as desired by the Public Health Commissioner with the Government of India.

88. In December 1937 the Government of India took over the direct administration of Port Quarantine, Seamen's and Marine Hospitals at the Madras Port and the Port Health Officer, Madras, is to communicate with the Public Health Commissioner with the Government of India in all matters relating to Port Quarantine.

Since it has been shown from the statistics collected in previous years that no appreciable number of alien lepers enter India by sea, the Government ordered the discontinuance of submission of statistics of alien lepers entering this Province through ports.

RURAL WATER-SUPPLY.

89. The Government have launched a scheme for the provision of protected water-supply to all villages. For this purpose priority lists of villages were prepared for the years 1937-38 and 1938-39 keeping in view, perennial or partial scarcity of water, distances from sources of water-supply, prevalence of water-borne epidemic and endemic infections, fairs and festivals, shandy, etc. A ten-year scheme commencing from 1939-40 to provide protected water-supply for all the villages in the presidency is under preparation. Orders were passed in G.O. No. 3216, dated 24th November 1937, sanctioning a grant of Rs. 1,08,000 for 1937-38 which was distributed at Rs. 6,000 per district amongst 18 districts excluding the six districts of Malabar, West Gōdāvari, East Gōdāvari, Tanjore, The Nilgiris and Kistna where water scarcity is not an acute problem.

FLUROSIS.

90. Mention has been made in the last year's report about the presence of fluorine in toxic doses in the drinking water sources of certain taluks in Nellore district and the syndrome caused in man and animals by drinking

such water for a long time. Further investigations have revealed the presence of fluorine in the drinking water supplies of several villages in Anantapur and Kurnool districts and in the borewells put up in Kovur village within the Poonamallee Health Unit area. In the affected districts some seven hundred wells have been examined to date by the King Institute of Preventive Medicine for the presence of fluorine and the survey is being continued and extended. In addition, a fully equipped and staffed enquiry into the question of fluorine in water supplies, financed by the Indian Research Fund Association, is being conducted at the King Institute of Preventive Medicine.

91. Investigations were also in progress during the year to see whether fluorine free water could be tapped from deeper strata in the endemic districts. The District Board of Nellore financed a scheme for an experimental borewell in that district but only a depth of 90 feet could be reached with the hand drill available with the Industries Department. The Government have since sanctioned the use of a Power Drill to continue the boring and it is expected to be available shortly. If the experiment proves successful, it will be a solution for the problem in some areas. The need for testing the water for fluorine of all the wells constructed under the scheme of rural water-supply sanctioned in G.O. No. 3216, P.H., dated 24th November 1937, before they are brought into use cannot be over emphasized.

92. A special article on the subject of endemic fluorine in Nellore district of South India by Lt.-Col. H. E. Shortt, I.M.S., Dr. C. G. Pandit and Rao Sahib T. N. S. Raghavachari, has already been published in *Indian Medical Gazette*, Vol. LXXII, No. 7 (July 1937).

MATERNITY AND CHILD WELFARE.

93. During the year under review maternity and child welfare work progressed steadily under District Boards and Municipalities following the advice of the Director of Public Health. The conviction is gaining ground that a scheme of public health work is incomplete unless it includes maternity and child welfare; uninterrupted and successful work carried on under some local bodies has proved a valuable incentive to others to assume similar responsibilities. Voluntary associations have handed over their work, existing funds, and in some cases buildings also, to the local body concerned in 17 Municipalities and 4 District Boards areas during the last few years. The last Red Cross centre in Madras City was handed over to the Corporation during the early part of 1938.

94. *The Maternity and Child Welfare Services.*—32 Women Medical Officers, 17 health visitors and 351 midwives worked in approved schemes under District Boards and Municipalities exclusive of Madras City as against 26 Women Medical Officers, 16 Health Visitors and 307 midwives in 1936. 7 Women Medical Officers attended the post-graduate course held early this year—two of these were from the Corporation of Madras. It is gratifying to note that the Corporation of Madras appointed an *Ad hoc* Committee to reorganise its work according to the policy of Government. The Assistant Directress of Public Health, Maternity and Child Welfare, Special Councillor, is a member of this committee.

The District Boards of Ramnad, East Tanjore, West Tanjore, and Salem, and the municipalities of Erode and Ellore allowed the posts of Women Medical Officers, Maternity and Child Welfare to remain unfilled unnecessarily long. Such delay is bound to cause deterioration of work and is to be regretted.

There has again been a satisfactory increase in the amounts spent on maternity and child welfare work by local bodies.

95. Monthly and annual returns are received regularly in the specified forms and even the midwives in backward areas are fast learning to maintain records and registers correctly.

102,290 mothers, 59,987 ante-natal cases, 35,288 labour cases, 31,922 infants and 31,183 pre-school children came under the care of the staff. The attendance at 14,425 clinics was 16,096 ante-natal cases, 20,348 mothers, 50,876 infants and 121,548 pre-school children. The number of home visits paid by the Women Medical Officers, health visitors and midwives was 25,290, 58,878 and 507,986, respectively. The attendance at 2,286 mothers' classes was 31,562. Health talks were given regularly in 418 girls' schools where the total audience was 19,214. In areas where Women Medical Officers are employed a closer study of maternal and infantile mortality and morbidity has been begun.

96. Bellary, Salem, Madura, Karaikudi and Masulipatam Municipalities and Ramnad and Nellore District Boards have decided to build child welfare centres according to approved designs.

97. There is no doubt that unlimited progress is yet possible, were further finances available. Government grants to approved schemes would be a tangible proof of their appreciation of a form of preventive and educative health work, the value of which although not to be measured in terms of figures for years to come, is yet beyond comparison as regards ultimate results in the form of cleaner homes, healthier villages and towns, enlightened mothers and a healthier people. It is evident to anyone who visits a health class for mothers or for girls, or a clinic conducted by the staff in a rural or urban centre, that a community fully alive to its responsibilities and duties and determined to do its best for its generation is fast being formed. Every encouragement should be given to this movement which has become so rapidly popular among all classes of the people.

SCHOOL HYGIENE.

98. The District Health Staff continued to inspect elementary schools during their tours to record their remarks both in regard to the sanitation, water-supply and sanitary conveniences of the school premises and to the vaccinal condition and general health of the pupils. The officers of the Public Health department are also required to issue sanitary certificates as a preliminary to the recognition of schools and such certificates are issued only to schools which satisfy the necessary sanitary conditions. School Medical inspection is a fundamental necessity for ensuring the proper mental and physical development of the school children and for the detection and correction of incipient defects. Madras City has alone any organized scheme of medical inspection. Since it has been found

that a comprehensive scheme for the whole province with full-time school Medical Inspectors would be rather costly, a cheaper scheme utilizing the services of rural and other medical practitioners for school medical inspection by paying them a small honorarium was submitted to Government during the year. It is hoped that this modest scheme will receive favourable consideration.

INDUSTRIAL HYGIENE.

99. *Factories.*—The sanitary control of factories work—places and workshops is receiving greater attention in recent years than in the past. The expansion of electricity in the province has given a stimulus for the establishment of factories and cottage industries both in municipal and local board areas. The health and welfare of factory workers is safeguarded by the provisions of the Indian Factories Act and the rules framed under it. The Health Officers are additional inspectors of factories and they are expected to inspect all the registered factories at least once in every year in regard to their lighting, ventilation water-supply, sanitation and sanitary conveniences. They inspected 675 factories during the year and their inspection reports were sent to the concerned Inspectors of factories for necessary action.

100. Factories which do not come under the Indian Factories Act are controlled by the provisions of the District Municipalities Act and the Local Boards Act. A factory should be established only with the previous sanction of the local authority who in turn should consult the Health Officer as to the suitability of the site before such permission is given. Instances were however, not wanting where permission for such construction was granted either without consulting the Health Officers concerned or disregarding their opinion.

101. Though it is more than a decade since the Government instructed the local authorities to set up separate areas for industrial development with a view to limit the construction of factories to definite localities in each local area, some of them have yet to take action in the matter. A factory once established in an unsuitable and congested locality cannot be shifted to a better site without undue financial loss and so it is hoped that the remaining local authorities will set apart industrial areas without any more delay. With a view to develop minor industries run by electric power, Health Officers were instructed to be more liberal in the interpretation of conditions laid down in G.O. No. 2371, P.H., dated 11th September 1935 in respect of electrical installations outside industrial areas.

Though not employing mechanical power, Beedi factories have also been declared as factories under the Indian Factories Act.

102. *Mines.*—Mining was carried on in the municipalities of Anantapur, Bellary, Chingleput, Coimbatore, Cuddapah, Kistna, Kurnool, Nellore, the Nilgiris, Salem, Trichinopoly and Vizagapatam. The District Health Officers of these districts inspected altogether 85 mines during the year and sent their inspection notes to the Collectors. The report of the District Health Officers of Chingleput, Coimbatore, Kistna, Salem and Nellore who are also ex-officio Inspectors of Mines, were sent to the Chief Inspector of Mines, Dhanbad. The sanitary defects pointed out in these reports are being gradually remedied by the proprietors of the mines.

was however an increase of 52,620 under primary and secondary vaccinations and re-vaccinations showed a decrease of 54,491. The fall under re-vaccinations was due to outbreaks of cholera in several districts with the consequent dislocation of vaccination work on account of the vaccinators being drafted for cholera duty and to the reluctance of the adult population for re-vaccination.

The number of children under one year of age successfully vaccinated was 569,266 as against 520,177 in the previous year. The percentage of successful infantile vaccination to total births varied from 60.0 in Madura to 26.5 in Tanjore.

The rate of successful vaccination per mille of population ranged from 53.2 in the Nilgiris to 26.7 in South Arcot.

Vaccination is compulsory except in the Agency areas, 91 hill villages of Kallakurichi taluk in South Arcot and Attapadi valley of Walluvanad Taluk in Malabar.

111. *Vaccination in Municipalities.*—The total number of vaccination operations in municipal areas was 608,850 consisting of 142,979 primary and secondary vaccinations and 465,871 re-vaccinations. Compared with the previous year there was an increase of 168,432 under total operations, 10,817 under primary and secondary vaccinations and 157,615 under re-vaccinations.

The number of children under one year of age successfully vaccinated was 92,224 as against 86,876 in the previous year. The percentage of successful infantile vaccination to total births varied from 98.6 in Kodaikanal to 23.8 in Udipi. The rate of successful vaccination per mille of population ranged from 122.0 in Tiruvannamalai to 23.2 in Devakottai.

112. *General.*—The total number of successful vaccinations performed during the year by the various agencies was as shown below :—

Agencies.	Number of successful vaccinations		Total.	Percentage of success.	
	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.
Local Fund vaccinators ...	1,115,613	267,524	1,383,137	96.5	20.1
Government ...	7,694	1,889	9,583	87.5	27.3
Municipal ...	139,407	83,725	223,132	99.1	21.5
Cantonment ...	5,231	6,829	12,060	93.8	38.1
Medical subordinates and Port Health Officers.	78	6,851	6,429	96.3	70.6
Railways ...	1,580	710	2,300	97.7	27.4
Poonamallee Health Unit ...	1,449	1,022	2,471	95.4	18.0
Cauvery-Mettur Project ...	141	45	186	95.3	34.4
Total ...	1,271,203	368,095	1,639,298	96.7	20.9

The strength of the vaccination staff employed during the year was as noted below :

Year.	Health Inspectors.	Vaccinators.		Probationary.	Total.
		I class.	II class.		
1936-37 ...	265	240	569	2	811
1937-38 ...	266	267	554	1	822
Increase or decrease ...	+1	+27	-15	-1	+11

A comparative statement of expenditure incurred by the various agencies under vaccination establishment is given below :—

Establishment.	Total, 1936-37.	Expenditure, 1937-38.	Average cost of each successful case.	
			1936-37.	1937-38
(1)	(2)	(3)	(4)	(5)
	RS.	RS.	RS. A. P.	RS. A. P.
Rural areas—				
Government establishments—				
Vaccinators and Health Inspectors.*	1,73,700	1,80,800	...	...
Local Fund ...	3,88,400	4,15,600	...	...
Total for Rural areas ..	5,63,100	5,96,400	0 6 8	0 6 10
Municipal ..	1,02,600	1,06,500	0 8 6	0 7 8
Cantonment ..	4,600	5,300	0 6 8	0 7 1
Poonamallee Health Unit ...	1,700	4,700	0 11 6	1 14 6
Total ..	6,72,000	7,12,900	0 6 11	0 7 0

* One-third of the expenditure in the establishment of Health Inspectors is debited to vaccination.

The average expenditure on each successful case was lowest in Malabar district (As. 4-9) and the highest in the Nilgiris district (Rs. 1-2-10). In municipalities it varied from (As. 2-9) in Kurnool to (Rs. 1-1-8) in Kodaikanal.

113. *Vaccination inspection.*—The number of cases inspected by District Health Officers varied from 5,942 in Malabar to 304 in Ramnad. Twelve Municipal Health Officers failed to verify their prescribed minimum in primary vaccination, 16 in re-vaccination and 10 in both. In municipalities having no Health Officers the number of medical officers who did not do the prescribed minimum of inspections was 5 in primary, 11 in re-vaccination and 3 in both. Thirty-three Health Inspectors fell short of their prescribed minimum of verification in primary vaccination, 16 in re-vaccination and 12 in both.

114. *The relation between the number of vaccination marks and deaths from small-pox.*—The table below shows the number of attacks and deaths

from small-pox and the percentage of deaths to attacks arranged according to the number of marks of vaccination.

Number of marks.	Attacks.	Deaths.	Percentage of deaths to attacks.
0	1,999	519	26.0
1	379	14	3.7
2	573	19	3.3
3	327	5	1.5
4	650	10	1.5

It is evident from the above that the more the number of successful vaccination marks the less is the case mortality rate and the mortality amongst those with "no marks" is very much higher than those with one or more marks.

115. *The incidence of small-pox according to age.*—The following table furnishes the number of attacks and deaths according to age-periods:—

Age-period.	Attacks.	Deaths.	Mortality rate per cent.
Below one year ...	237	131	55.3
1-10 years ...	1,400	286	20.4
11-20 " ...	1,058	109	10.3
21-30 " ...	950	114	12.0
31-40 " ...	562	87	15.5
41-50 " ...	285	70	24.6
51-60 " ...	124	36	29.0
61 and above ...	53	18	34.0

The high mortality rate in the age-period "Below one year" was due to many of the children getting small-pox before they were protected by vaccination. The people have still a tendency to evade the vaccination of their children till they are over the usual age and this accounted for the mortality rate of over 20 per cent in the age-period of 1-10 years. The sudden rise in the mortality rate after 40 years is probably due to the gradual loss of immunity which has been conferred by vaccination in earlier years. When compared with the previous year's figures the mortality rates during the last three age-periods have shown an appreciable decrease. It is hoped that by enforcing the compulsory provisions of the vaccination rules on the adult population the mortality rate will still further be reduced.

PERSONAL PROCEEDINGS AND OFFICE.

116. The strength of the Public Health Department on 31st December 1937 was:—

1. Director of Public Health ...	1	
2. Assistant Director of Public Health.	4	These include the post of the Professor of Hygiene.
3. Assistant Directress of Public Health.	1	
4. First class Health Officers ...	59	These include the post of Health Officer, Health Unit, Poonamallee sanctioned during the year and the posts of the Health Officer and two Assistant Health Officers of the Madras Corporation which are not included in the Madras Public Health service.

5. Second-class Health Officers ...	56	These include the temporary post of Municipal Health Officer, Karaikudi, sanctioned during the year.
6. Health Inspectors ...	272	These include the post of one additional Health Inspector sanctioned during the year.
7. Government Vaccinators ...	16	
8. First-class Vaccinators	263	Employed by local bodies.
9. Second-class Vaccinators	542	
10. Probationary Vaccinators	1	
11. Entomological Assistant ...	1	
12. Compounders ...	2	

During the year one first-class Health Officer and two Health Inspectors retired, two Health Inspectors died and one second-class Health Officer and four Health Inspectors were punished.

One first-class Health Officer was awarded a fellowship by the Rockefeller Foundation of America and he has proceeded for higher studies in America. Another first-class Health Officer who was on Rockefeller Foundation Fellowship finished his course of studies and returned to duty.

One First-class Health Officer and four Health Inspectors for the Health Unit, Poonamallee and a second-class Health Officer for Karaikudi Municipality were sanctioned on a temporary basis during the year. An additional Health Inspector for Vizagapatam Agency was also sanctioned. All the other temporary posts of Health Officers and Health Inspectors were continued for a further period of one year.

117. The continuance of the scheme for utilizing the services of two Rural Medical Practitioners in each district for Public Health work was sanctioned in G.O. No. 1158, P.H., dated 5th August 1936. The scheme has been working now for nearly four years. The District Health Officers are expected to keep themselves in constant touch with these Rural Medical Practitioners and to give them necessary instructions in their Public Health duties. Excepting with regard to the conduct of routine vaccination, the scheme has on the whole worked more satisfactorily than in the previous years.

118. Lt.-Col. C. M. Ganapathi, M.C., I.M.S., continued to be the Director of Public Health. The combination of the functional distribution of work with a territorial jurisdiction for purposes of routine inspection for the Assistant Directors of Public Health continued to be in force during the year, with very gratifying results. This arrangement has enabled the Assistant Directors of Public Health in addition to developing their own branches of work under the bureau system, to make detailed inspections of all aspects of Public Health work in districts and municipalities which was found to be very necessary for the efficient administration of the department. The district and municipal health staff had ample opportunities to discuss their local problems with the Assistant Directors of Public Health and get expert advice and guidance wherever necessary.

119. Since it has been found that the statutory provisions relating to public health administration in this province are defective in several respects and are not in keeping with present day progress, the draft of a

compact Public Health Bill embodying such provisions as are necessary to supplement and enlarge the scope of the existing enactments, has been prepared and submitted to Government. It is hoped that the draft bill will soon find a place in the Statute Book.

CONCLUDING REMARKS.

120. The report reveals the many-sided activities of the Public Health Department which is assuming every year a more important place in the general administration of the Province. This growth can only be maintained by enlisting the sympathies and co-operation of the public and especially of the public in the rural areas since these are the more backward and therefore the more in need of Public Health measures. That such sympathy and understanding is beginning gradually to infiltrate the public conscience will be evident to any one who reads successive annual reports of Public Health administration in this Province since each records progress in some new direction which could not be kept in healthy activity by official encouragement alone.

121. Further extension of the areas where the Registration of Births and Deaths Act (1899) is in force is recorded and this is noted with satisfaction in view of the remarks made on this subject in last year's report. That there is room for much improvement is shown by the fact that the Health Staff detected during the year 41,019 unregistered births and 12,555 unregistered deaths and had them duly registered. As the present Registrars are largely untrained the extension of training facilities has to be considered. The compilation of vital statistics which was centralized in the office of the Director of Public Health as an experimental measure has proved a success and the measure has been made permanent.

122. The report records a marked decrease in deaths from small-pox—47 per cent. While the figures for any one year are no criterion, it is significant that a continuous drop in the mortality appears to indicate the cumulative effect of compulsory vaccination over the greater part of the Province and of revaccination which is also being energetically carried on. The mortality during the year is the lowest recorded for seventy years.

123. In the case of cholera, the mortality is lower than that of the previous year by about 30 per cent but such fluctuations are a feature of this, one of the greatest scourges of the Province. Madras is almost unique in that cholera in the province is caused by two serologically distinct types of organism, one mostly in the north and the other in the south and both types of organisms are included in the prophylactic vaccine prepared for use in the province at the King Institute, Guindy.

124. The unwelcome recrudescence of plague in the Nilgiris in 1937 was a feature accorded more publicity than its seriousness demanded and the outbreak was handed with energy and determination by measures of inoculation and rat destruction. It was a reminder of the need for constant vigilance in regard to this disease in a Province which has never been seriously invaded by it.

125. One of the important events of the year has been the launching of a far-reaching plan for the provision of protected water-supplies to all villages in the Province. This is still in its initial stages but it is hoped to complete it within a ten-year period. No project which can be conceived is deserving of more support and the success which will go with public support than this scheme initiated by Government.

126. The work of the department on Maternity and Child-welfare continues to progress, as a perusal of the relevant sections of this report will show and it is needless to call attention to its importance since it deals with the future citizens of the Province.

127. Throughout the year the staff of the Public Health Department have carried out their different duties energetically and with an understanding of their importance to the community at large.

MADRAS, }
13th June 1938. }

H. E. SHORTT, Lt.-Col., I.M.S.,
Director of Public Health, Madras.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Gulbarg, Cocanada, Coimbatore, Coimjeerem, Cuddalore, Kumbakonam, Madurai, Manallore, Nacavakam, Salem, Tanjore, Tirunelveli, Trichinopoly and Vellore during the year 1937.

Age at the time of death.	(1)	Population according to the census of 1981.	Infectious diseases.								Fevers.					Respiratory diseases.
			Cholera.	Plague.	Smallpox.	Measles.	Chickenpox.	Typhoid or enteric fever.	Diphtheria.	Others.	Malaria.	Influenza.	Relapsing fever.	Kala Azar.	Rheumatic fever.	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1 2 3 4	Under one year. Not Under one month. Under one week Over one month and not exceeding 6 months Over 6 months and not exceeding 12 months	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1	...	...	2	4	1	2	...	...	7	2	1	...	...	135
		1	...	...	9	16	1	2	...	12	2	4	...	...	...	157
		...	...	...	11	22	2	4	...	19	4	5	...	...	...	316
Total under one year		27,045	2	...	17	66	4	36	16	28	19	16	...	...	402	3
One year and under 5 years		122,037	40	...	4	6	...	58	6	6	20	16	...	...	129	5
5 years and under 10 years		134,823	62	...	1	...	...	83	2	...	16	3	...	...	76	52
10 years and under 15 years		127,112	42	1	...	...	...	89	...	...	23	7	...	...	61	198
15 years and under 20 years		115,008	32	...	4	1	...	141	...	...	3	43	...	...	128	750
20 years and under 30 years		222,205	115	1	...	...	...	...	...	...	1	12	...	...	644	109
30 years and under 40 years		169,934	89	...	3	...	...	67	...	...	47	9	...	...	7	109
40 years and under 50 years		114,986	82	...	2	2	...	43	...	1	25	7	...	...	1	127
50 years and under 60 years		69,755	31	...	...	...	...	29	...	...	49	9	...	...	155	499
60 years and upwards		49,826	40	...	2	...	...	9	...	...	33	3	...	...	148	331
Total of all ages		1,152,231	585	2	66	97	7	559	24	60	279	86	...	52	1,649	2,645
Rate per 1,000 of population ...		...	0.46	0.002	0.06	0.08	0.01	0.49	0.02	0.05	0.24	0.07	...	0.05	1.43	2.30

ANNEXURE A—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coimbatore, Conjeevaram, Cuddalore, Kumbakonam, Madurai, Nagapatnam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1937—cont.

Age at the time of death.	Respiratory diseases—cont.		Alimentary system.			Disease of the liver.		Circulatory system.			Genito-urinary diseases excluding venereal diseases.		Venereal diseases.		
	Pneumonia.	Others.	Dysentery.	Diarrhoea.	Others.	Cirrhosis.	Others.	Heart disease.	Arterio-sclerosis.	Others.	Bright's disease.	Others.	Syphilis.	Gonorrhoea.	Others.
1. { Under one week ...	2	88	2	1	6	...	...	...	...	...	...	...	2	...	1
2. { Over one week ...	21	76	..	22	26	...	2	...	...	...	1	...	6	...	..
3. { Over one month and not exceeding 6 months ...	212	259	76	170	51	15	8	2	...	4	2	...	25	...	2
4. { Over 6 months and not exceeding 12 months ...	339	232	156	279	20	27	13	...	...	4	5	...	9	1	..
5. { Total under one year ...	574	655	284	472	103	42	23	2	...	9	8	...	42	1	3
6. { One year and under 5 years ...	1,184	427	914	360	70	239	123	5	...	22	44	11	7	...	...
7. { 5 years and under 10 years ...	313	43	166	61	13	20	23	13	...	13	23	6	...	...	...
8. { 10 years and under 15 years ...	176	12	38	22	13	9	7	20	...	15	7	9	...	...	...
9. { 15 years and under 20 years ...	169	10	82	36	21	9	18	33	...	20	20	10	2	...	...
10. { 20 years and under 30 years ...	339	30	119	144	100	28	22	95	...	53	51	21	10	3	4
11. { 30 years and under 40 years ...	255	49	137	145	112	40	22	158	...	56	64	40	12	4	3
12. { 40 years and under 50 years ...	229	77	145	116	118	47	28	180	1	81	115	35	10	6	2
13. { 50 years and under 60 years ...	216	111	129	98	89	35	17	168	...	77	126	19	3	3	3
14. { 60 years and upwards ...	129	132	194	133	63	20	10	233	...	69	150	17	1	...	...
15. { Total of all ages ...	3,584	1,546	2,108	1,587	702	489	298	907	1	422	608	168	87	17	19
16. { Rate per 1,000 of population ...	3.11	1.34	1.88	1.38	0.61	0.42	0.26	0.79	0.001	0.37	0.53	0.15	0.08	0.01	0.02

ANNEXURE A—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Conjeevaram, Cuddalore, Kumbakonam, Madurai, Mangalore, Negapatnam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1937—cont.

Age at the time of death.	Diseases of the nervous system.					Accidents of pregnancy and child-birth.			Deficiency diseases.			Malignant diseases.					Diabetes.
	Convulsions.	Cerebral hæmorrhage (apoplexy).	Tetanus.	Epilepsy.	(Others.	Puerperal sepsis.	Abortion.	Other accidents and diseases of pregnancy and parturition.	Beri-Beri.	Rickets.	Others.	Alimentary tract.	Genito-urinary.	Breast.	Other regions.	Ankylostomiasis.	
1	257	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
2	477	...	1	...	3	...	...	...	...	...	3	...	...	...	...	...	...
3	1,023	...	...	...	12	...	...	...	...	20	19	...	...	...	2	...	...
4	599	...	2	...	6	...	...	...	...	23	12	...	...	...	3	...	...
	2,356	...	5	...	22	...	...	...	...	43	34	...	...	...	5	...	...
One year and under 5 years	849	1	11	3	9	...	...	...	1	232	17	...	1	...	4	7	...
5 years and under 10 years	45	1	13	4	5	...	...	...	1	29	3	...	...	...	1	11	...
10 years and under 15 years	7	4	16	9	6	...	...	...	1	3	...	...	...	...	...	5	...
15 years and under 20 years	2	...	5	9	7	82	4	71	1	...	4	...	...	...	...	2	...
20 years and under 30 years	5	...	23	15	36	155	28	180	8	...	10	...	...	...	...	5	...
30 years and under 40 years	1	16	15	11	33	84	11	103	6	2	...	...	...	...	...	9	...
40 years and under 50 years	...	34	8	5	67	9	3	11	...	...	...	...	...	...	...	...	...
50 years and under 60 years	...	41	7	4	116	...	...	...	17	...	...	...	...	...	...	...	...
60 years and upwards	...	54	3	3	243	...	...	...	9	4	7	...	...	...	...	...	...
Total of all ages	3,265	166	103	68	544	392	47	380	49	313	103	35	18	12	102	92	294
Rate per 1,000 of population	283	0.14	0.09	0.06	0.47	0.29	0.04	0.33	0.04	0.27	0.09	0.03	0.02	0.01	0.09	0.08	0.26

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ANNEXURE A—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Conjeevaram, Cuddalore, Kumbakonam, Madurai, Mangalore, Negapatnam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1937—cont.

Age at the time of death.	Leprosy.	Alcoholism.	Congenital debility malformation and premature birth.	Rabies.	Wounds and accidents.	Snake-bite.	Killed by wild beasts.	Suicides.	Poisons.	Old age.	All other causes.	Total deaths from all causes.	Rate per 1,000 of population.	Remarks.	
	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)
1 Under one year.	...	...	1,997	...	4	...	...	...	2	...	73	2,447	49.79†	...	...
2 Not exceeding one month.	...	...	740	...	...	...	...	...	1	...	48	1,443	29.48†	...	...
3 Over one month and not exceeding 6 months.	...	...	240	...	4	...	...	...	4	...	131	2,436	49.31†	...	...
4 Over 6 months and not exceeding 12 months.	...	...	41	...	2	...	...	...	1	...	79	2,056	41.83	...	...
Total under one year.	...	...	3,018	...	10	...	...	...	8	...	334	8,390	170.71†	...	...
One year and under 5 years.	...	...	32	...	66	...	...	...	2	...	240	5,542	45.41	...	...
5 years and under 10 years.	...	...	1	...	61	...	...	...	...	...	63	1,263	9.37	...	...
10 years and under 15 years.	...	...	...	...	4	...	...	...	...	...	46	770	6.06	...	...
15 years and under 20 years.	...	...	...	...	36	...	...	...	...	...	54	1,111	9.66	...	...
20 years and under 30 years.	...	...	...	...	84	...	...	...	...	...	191	3,075	13.84	...	...
30 years and under 40 years.	...	...	...	...	5	...	...	...	...	...	250	2,811	16.54	...	...
40 years and under 50 years.	...	...	...	...	5	...	...	...	...	...	271	2,694	23.43	...	...
50 years and under 60 years.	...	...	...	...	22	...	...	...	...	...	312	2,460	35.27	...	...
60 years and upwards.	...	...	...	...	1	...	...	...	...	...	353	7,250	146.93	...	...
Total of all ages.	102	3	3,054	22	564	35	2	94	23	4,814	2,116	35,366	30.69	...	...
Rate per 1,000 of population.	0.03	0.003	2.65	0.02	0.49	0.03	0.002	0.08	0.03	4.18	1.84	30.89	...	...	...

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*Births ... 25,088 24,059 49,147
 *Deaths ... 18,358 17,008 35,366
 Still-births, 1,377 1,118 2,495

† Total births and deaths exclude "still-births."

† Rate per 1,000 live-births.

(a) *Municipalities with protected water-supply.*

(b) *Municipalities without protected water-supply.*

N.B.—Only 11 out of 42 municipalities have their whole water-supply protected. The remaining 31 have only partial schemes.

Serial number.	Details.	Amount.
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Serial number.	Details.	Amount.		
		RS.	A.	P.
I.	Establishment charges (including pay of officers, establishment, allowances, honorarium, etc.)	1,764	0	0
II.	Cost of printing	960	6	0
III.	Miscellaneous charges including repairs, renewals of equipment, slides, purchase of materials for artist, etc.	1,089	0	9
IV.	Total cost	3,813	6	9
V.	Sale-proceeds of literature	3,724	3	0
VI.	Value of literature unsold	18,149	4	11
VII.	Receipts from loan of magic lanterns, slides, films, etc.	1,409	8	0
VIII.	Total of items 5 to 7	23,282	15	11
IX.	Net gain	19,469	9	2
X.	Net extra expenditure deducting Rs. 8,000 being the grant originally made to the Madras Health Council.			Nil.
XI.	Net extra expenditure according to the sanctioned scheme			Nil.
XII.	Capital expenditure (purchase of films, etc.) specially sanctioned from time to time	3,185	11	0

ANNEXURE D.

Maternity and Child-welfare in Rural Areas (Districts exclusive of Municipalities) during 1937.

Number.	Name of district.	Area in square miles.	Total revenue of District Board.	Amount spent on Maternity and Child-welfare work.	Percentage of total amount spent on Maternity and Child-welfare work.	Maternity and Child-welfare centres.		Medical women.			Number of Health visitors.		Midwives.				
						Local bodies.	Aided and managed by private bodies.	Appointed for Maternity and Child-welfare work.	Available as consultants.	Per 1,000 births.	Local bodies.	Private.	In full time domiciliary service.		In private practice.	In hospitals and dispensaries (Govt. Local Fund and Private).	In Rural medical relief dispensaries.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1	Anantapur	6,741	Rs. 5,17,165	Rs. 2,578	0.49	2	1	1	4	0.11	..	..	2	1	..	15	4
2	Bellary	5,871	4,38,828	..	..	17	1	..	..	0.02	..	..	17	1	..	11	6
3	Chingleput	1,371	6,13,682	9,000	1.40	..	6	1	2	0.04	..	..	..	..	..	28	12
4	Chittoor	5,914	7,91,555	3,157	0.40	..	..	..	..	0.01	1	..	10	..	..	31	7
5	Coimbatore	7,044	9,38,321	7,926	0.84	..	..	..	2	0.06	..	..	..	..	..	23	10
6	Cuddapah	5,918	8,17,751	401	0.05	1	..	..	..	0.01	..	..	1	..	..	11	5
7	Godavari, East	2,527	12,36,500	5,850	0.05	6	..	1	..	0.02	1	..	7	..	..	10	35
8	Godavari, West	2,381	4,89,240	700	1.40	9	..	..	7	0.09	..	..	10	..	..	24	5
9	Guntur	5,757	15,28,700	..	..	..	..	..	..	0.01	..	..	..	..	..	44	18
10	Kistna	3,487	..	7,117	..	8	..	1	..	..	..	..	9	..	..	26	8
11	Kurnool	7,887	11,87,680	1,572	0.13	1	2	..	..	0.04	1	..	7	1	..	9	1
12	Madura	4,908	13,69,356	3,182	0.23	2	2	3	..	0.02	1	..	14	2	..	4	6
13	Malabar	5,794	..	..	..	..	..	..	8	..	..	..	..	..	..	49	..
14	Nellore	7,978	2,87,005	370	0.13	..	..	..	..	..	..	..	..	..	..	23	14
15	The Nilgiris	929	2,69,811	499	0.20	1	..	1	..	..	..	..	1	..	..	10	1
16	North Arcot	4,945	8,76,245	6,102	0.70	6	..	1	5	0.07	..	..	20	6	..	21	14

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ANNEXURE D—cont.

Maternity and Child-welfare in Rural Areas (Districts exclusive of Municipalities) during 1937—cont.

Number.	Name of district.	Midwives.		(19)	Total.	(20)	Per 1,000 births.	(21)	Number of cases receiving skilled aid at child birth.	(22)	Percentage of cases receiving skilled aid at child birth.	Beds in hospitals.				(26)	(27)	(28)	(29)	(30)	(31)	(32)
		Total.	Per 1,000 births.									Children's diseases.										
												Maternity.	Number.	Per 1,000 births.	Per 1,000 children.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1	Anantapur	22	0.47	...	2,789	5.97	6	0.13	...	...	...	...	...	...	...	45,936	421	7,126	155.13	510	11.00	
2	Bellary	16	0.40	...	2,550	6.38	...	...	...	...	...	...	...	...	...	39,714	266	6,441	162.18	263	6.58	
3	Chingleput	58	0.97	...	10,763	17.91	51	0.35	4	0.07	...	...	...	...	...	59,167	917	10,645	179.31	474	7.89	
4	Chittoor	38	0.74	...	3,457	6.69	44	0.85	13	0.25	...	...	...	...	...	51,356	294	8,377	163.11	415	8.03	
5	Coimbatore	43	0.50	...	3,858	4.49	2	0.02	...	0.11	...	...	...	...	...	85,599	317	14,485	169.22	415	4.83	
6	Cuddapah	17	0.47	...	1,579	4.40	3	0.08	4	...	...	...	...	...	...	30,561	248	5,534	155.62	344	9.61	
7	Godavari, East	52	0.72	...	4,126	5.71	27	0.37	...	...	...	...	...	...	...	62,067	565	11,629	187.33	551	8.80	
8	Godavari, West	39	0.73	...	3,018	5.67	32	0.60	5	0.09	...	...	...	...	...	52,681	532	11,321	214.98	492	9.41	
9	Guntur	62	0.86	...	3,283	4.55	92	1.27	6	0.08	...	...	...	...	...	71,631	585	15,441	215.56	542	7.51	
10	Kistna	48	0.83	...	4,095	7.90	30	0.53	16	0.31	...	...	...	...	...	51,320	621	11,658	227.16	500	9.29	
11	Kurnool	17	0.39	...	1,273	2.96	...	...	...	...	...	...	...	...	...	42,629	428	7,199	168.88	314	7.29	
12	Madura	24	0.35	...	3,058	4.42	16	0.23	...	...	...	...	...	...	...	68,787	323	11,065	160.86	349	5.77	
13	Malabar	51	0.40	...	3,476	2.74	...	0.14	...	...	...	...	...	...	...	124,196	2,538	16,397	132.03	714	5.63	
14	Nellore	37	0.74	...	3,138	6.25	7	0.92	...	...	...	...	...	...	...	49,858	250	8,619	172.87	345	6.89	
15	The Nilgiris	12	2.76	...	386	8.42	4	0.28	...	...	...	...	...	...	...	4,334	15	...	...	26	5.98	
16	North Arcot	61	0.88	...	3,417	3.80	25	...	...	...	...	...	...	...	...	88,594	1,351	12,916	145.79	516	5.67	

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ANNEXURE D—cont.

Maternity and Child-welfare in Rural Areas (Districts exclusive of Municipalities) during 1937—cont.

Number.	Name of district.	(1)	(2)	(3)	Total revenue of District Board.	(4)	Amount spent on Maternity and Child-welfare work.	(5)	Percentage of total amount spent on Maternity and Child-welfare work.	Maternity and Child-welfare centres.		Medical women.			Number of Health visitors.		Midwives.				
										Aided and managed by private.	Local bodies.	Appointed for Maternity and Child-welfare work.	Available as consultants.	Per 1,000 births.	Local bodies.	Private.	In full time domiciliary service.	In private practice.	In hospitals and dispensaries (Govt., L.F. and Private).	Rural medical relief dispensaries.	
17	Rannad	...	4,810	11,00,000	5,000	0.50	7	...	...	...	...	...	...	...	...	...	...	...	...	...	10
18	Salem	...	7,057	11,20,480	17,270	1.54	18	...	...	...	...	...	...	...	...	...	...	...	...	...	5
19	South Arcot	...	4,207	9,75,594	2,790	0.29	2	...	...	...	...	...	...	...	...	...	...	...	...	...	6
20	South Kanara	...	4,012	6,74,530	615	0.09	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
21	Tanjore	...	8,727	24,06,557	12,528	0.52	14	...	...	...	...	...	...	...	...	...	...	...	...	...	28
22	Tinnevely	...	4,042	11,50,752	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	53
23	Trichinopoly	...	4,314	22,66,719	3,286	0.01	3	...	...	...	...	...	...	...	...	...	...	...	...	...	31
24	Vizagapatam	...	8,000	11,70,905	6,186	0.53	5	...	...	...	...	...	...	...	...	...	...	...	...	...	9
	Total for the Districts.	...	...	2,22,16,866	95,931	0.45	112	12	14	37	0.03	8	...	180	10	2	569	...	...	...	193

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ANNEXURE D—cont.

Maternity and Child-welfare in Rural Areas (Districts exclusive of Municipalities) during 1937—cont.

Number.	Name of district.	(19)	Midwives.		Beds in hospitals.				(27)	(28)	(29)	(30)	(31)	(32)
			Total	Per 1,000 births.	Maternity.	Children's diseases.	Per 1,000 births.	Per 1,000 children.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
17	Rannad	53	0.92	5,796	10.01	...	...	...	57,600	280	8,074	140.17	452	7.81
18	Salem	49	0.56	4,748	5.43	...	...	...	87,076	387	13,990	160.66	550	6.29
19	South Arcot	85	0.42	3,016	3.62	...	...	...	82,616	702	12,249	148.21	528	9.83
20	South Kanara	40	0.83	3,756	7.83	...	...	...	46,817	1,109	6,675	142.45	464	9.67
21	Tanjore	85	1.24	5,100	7.43	...	...	...	66,886	1,738	11,413	170.63	1,220	17.78
22	Tinnevely	40	0.51	2,687	3.41	...	...	...	77,748	1,023	13,339	171.57	634	8.06
23	Trichinopoly	3	0.05	2,083	3.29	...	...	...	62,947	324	9,892	158.58	742	11.73
24	Vizagapatam	37	0.28	3,052	2.31	...	...	...	180,580	1,016	24,259	185.78	770	5.85
	Total for the Districts.	934	0.60	84,459	5.40	420	0.27	48	1,548,983	10,252	261,028	168.51	12,565	8.03

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ANNEXURE E.

Maternity Relief and Child-welfare—Municipalities in the year 1937.

Municipalities in the year 1937.																
Number.	Name of municipality.	(3)	(4)	(5)	(6)	Maternity and Child-welfare centres.		Medical women.			Number of Health Visitors.		Midwives.			
						Local Bodies.	Aided and managed by private bodies.	Appointed for Maternity and Child-welfare work.	Available as consultants.	Per 1,000 births.	Local Bodies.	Private.	In full time domiciliary service.	In private practice.	In hospitals and dispensaries (Government, Local Fund and private).	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1	Hindupur ..	1.90	Rs. 1,10,242	280	0.20	1	..	..	1	1.36	..	..	1	..	..	1
2	Anantapur ..	2.27	74,100	1,332	1.70	..	..	..	..	..	..	..	2	..	..	1
3	Tadipatri ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Bellary ..	12	6,21,674	2,152	0.35	1	..	..	..	..	..	..	2	..	..	..
5	Adoni ..	4.48	1,52,045	726	0.48	..	..	..	..	..	..	..	1	..	..	..
6	Hospet ..	5.62	1,55,720	620	0.40	1	..	..	..	..	..	..	1	..	..	..
7	Conjeveram ..	4.0	4,31,270	1,709	0.40	..	..	..	..	..	..	..	1	..	..	..
8	Saidapet ..	7.5	2,78,688	1,640	0.59	..	..	..	..	..	..	..	4	..	..	..
9	Chingleput ..	1.6	1,03,016	1,796	1.7	1	1	..	..	..	..	..	3	..	..	..
10	Chittoor ..	7.5	63,998	2,133	3.2	..	..	..	..	..	..	..	8	..	..	..
11	Tirupati ..	4.0	2,11,755	2,960	0.18	1	1	..	..	2.01	..	..	1	..	..	..
12	Coimbatore ..	8.0	7,19,399	8,004	1.11	3	..	..	..	1.55	2	..	3	..	..	..
13	Erode ..	3.12	2,58,793	1,354	0.52	1	..	..	..	0.25	..	..	9	..	..	..
14	Dharmapuri ..	1.94	61,202	460	0.75	..	..	..	..	..	..	..	2	..	..	..
15	Pollachi ..	4.0	2,11,755	397	0.18	..	..	..	..	..	..	..	1	..	..	..
16	Tiruppur ..	5.5	1,62,756	1,090	0.67	..	..	..	..	1.16	..	..	1	..	..	..
17	Udumalpet ..	3.0	60,754	503	0.83	1	..	..	..	..	..	..	2	..	..	..
18	Cuddalore ..	2.6	1,45,727	689	0.47	1	1	..	..	1.64	..	..	1	..	..	..
19	Proddatur ..	2.75	1,10,000	50	0.35	..	..	..	..	..	..	..	4	..	..	..
20	Rajahmundry ..	3.42	2,98,279	612	0.21	..	..	..	..	1.21	..	..	1	..	..	..
21	Cochin ..	7.85	2,44,460	8,610	1.48	1	..	..	..	2.84	..	..	1	..	..	..
22	Peddapuram ..	7.0	44,560	304	0.68	..	..	..	..	..	..	..	6	..	..	..
23	Ellore ..	..	2,46,000	1,800	0.65	1	..	..	..	0.83	..	..	3	..	..	..

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24	Palacode ..	6.0	264,823	1,190	0.38	..	..	..	..	..	..	..	..	..	..	..
25	Guntur ..	2.68	109,772	469	0.43	..	..	..	..	..	..	..	..	..	..	..
26	Tenali ..	2.8	63,300	251	0.40	..	..	..	..	..	..	..	..	..	..	..
27	Chirala ..	4.0	780,000	2.8	0.40	..	..	..	..	..	..	..	..	..	..	..
28	Onge ..	2.63	59,743	285	0.48	..	..	..	..	..	..	..	..	..	..	..
29	Narasaraopet ..	5.45	1,216,280	4,804	0.39	..	..	..	..	..	..	..	..	..	..	..
30	Bezwada ..	9.2	449,620	2,557	0.57	..	..	..	..	..	..	..	..	..	..	..
31	Masulipatam ..	4.5	272,000	850	0.12	..	..	..	..	..	..	..	..	..	..	..
32	Kurnool ..	5	92,746	474	0.51	..	..	..	..	..	..	..	..	..	..	..
33	Nandyal ..	..	6,926,940	151,816	2.19	1	5	..	..	..	..	..	..	..	..	..
34	Madras ..	8.07	1,610,150	28,883	1.66	5	5	..	..	..	..	..	..	..	..	..
35	Madura ..	5.04	212,280	3,412	1.62	..	..	..	..	..	..	..	..	..	..	..
36	Dindigul ..	2.25	50,866	220	0.43	..	..	..	..	..	..	..	..	..	..	..
37	Bodinayakanur ..	1.63	60,125	329	0.55	..	..	..	..	..	..	..	..	..	..	..
38	Palni ..	0.94	62,168	799	1.15	..	..	..	..	..	..	..	..	..	..	..
39	Periyakulam ..	6.0	73,694	1,043	1.41	..	..	..	..	..	..	..	..	..	..	..
40	Kodaikanal ..	10.77	662,638	1,680	0.25	4	..	..	..	..	..	..	..	..	..	..
41	Calicut ..	10.49	168,737	2,096	1.57	..	..	..	..	..	..	..	..	..	..	..
42	Palghat ..	4.87	133,420	2,096	1.57	..	..	..	..	..	..	..	..	..	..	..
43	Cananore ..	2.71	80,000	1,971	2.46	..	..	..	..	..	..	..	..	..	..	..
44	Tellicherry ..	1.01	144,555	954	0.66	..	..	..	..	..	..	..	..	..	..	..
45	Cochin ..	4.0	216,400	120	0.06	..	..	..	..	..	..	..	..	..	..	..
46	Nellore ..	14.59	739,297	4,514	0.61	..	..	..	..	..	..	..	..	..	..	..
47	Ootacamund ..	5.81	227,120	2,167	0.95	..	..	..	..	..	..	..	..	..	..	..
48	Oonoor ..	4.5	319,027	2,602	0.78	1	..	..	..	..	..	..	..	..	..	..
49	Vellore ..	5.0	78,080	659	0.83	..	..	..	..	..	..	..	..	..	..	..
50	Tiruvannamalai ..	3.5	105,918	100	0.11	..	..	..	..	..	..	..	..	..	..	..
51	Vaniyambadi ..	1.75	91,873	100	0.11	..	..	..	..	..	..	..	..	..	..	..
52	Tirupattur ..	1.02	49,064	381	0.56	..	..	..	..	..	..	..	..	..	..	..
53	Walajapet ..	1.85	67,272	381	0.56	..	..	..	..	..	..	..	..	..	..	..
54	Srivilliputtur ..	2.68	188,205	1,000	..	..	..	..	..	..	..	..	..	..	..	..
55	Virudhunagar ..	2.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56	Sivakasi ..	6.48	226,576	734	0.32	..	..	..	..	..	..	..	..	..	..	..
57	Karaijadi ..	5	384,282	8,214	2.45	1	..	..	..	..	..	..	..	..	..	..
58	Salem ..	12.05	147,193	980	0.80	5	1	..	..	..	..	..	..	..	..	..
59	Cuddalore ..	2.0	97,251	743	0.75	..	..	..	..	..	..	..	..	..	..	..
60	Chidambaram ..	2.33	84,095	495	0.59	..	..	..	..	..	..	..	..	..	..	..
61	Villupuram ..	5.25	414,130	4,940	1.20	..	..	..	..	..	..	..	..	..	..	..
62	Mangalore ..	4.42	377,207	1,405	0.87	1	..	..	..	..	..	..	..	..	..	..
63	Kumbakonam ..	8.3	408,910	657	0.16	2	..	..	..	..	..	..	..	..	..	..
64	Tanjore ..	5.44	194,570	1,523	0.78	..	..	..	..	..	..	..	..	..	..	..
65	Negapatam ..	4.78	117,068	653	0.56	..	..	..	..	..	..	..	..	..	..	..
66	Mayavaram ..	..	73,862	280	0.31	..	..	..	..	..	..	..	..	..	..	..
67	Tiruvavur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* Figures not furnished.

ANNEXURE E—cont.
Maternity Relief and Child-welfare—Municipalities—cont.

Number.	Name of municipality.	Midwives—cont.		(18)	(19)	Per 1,000 births.	(20)	Number of cases receiving skilled aid at child birth.	(21)	Beds in hospitals.				(26)	Still births.	(27)	Number of infantile deaths.	(28)	Infantile mortality rate per 1,000 births.	(29)	Number of maternal deaths.	(30)	Maternal mortality rate per 1,000 births.	(31)
		Total.	Maternity							Children's diseases.														
										Number.	Per 1,000 Births.	Number.	Per 1,000 Child ren.											
1	Hindupur	2	1.86	304	41.47	...	...	...	...	...	...	693	40	84	121.21	7	9.55							
2	Anantapur	8	4.82	487	78.17	...	...	...	...	...	...	605	18	55	90.91	6	9.68							
3	Tadipatri	...	...	269	47.44	...	...	...	...	...	...	550	17	59	107.27	9	15.87							
4	Bellary	8	3.54	764	83.74	4	1.77	10	4.64	...	...	2,157	104	423	198.11	33	14.60							
5	Adoni	3	2.28	248	18.83	5	3.80	...	...	...	...	1,286	31	154	119.75	18	13.67							
6	Hospet	2	2.07	261	26.99	6	6.20	...	...	...	...	933	34	138	147.91	7	7.24							
7	Conjeevaram	8	2.66	1,221	44.58	13	4.75	...	...	...	...	2,572	167	404	157.08	43	15.70							
8	Saidapet	12	10.10	555	46.71	...	...	...	...	...	...	1,156	32	203	175.61	2	1.68							
9	Chingleput	5	5.55	813	90.11	12	13.82	...	...	...	...	799	102	116	145.18	30	33.30							
10	Chittoor	6	6.02	651	65.36	10	10.4	4	4.45	...	...	890	67	125	139.04	20	20.08							
11	Tirupati	5	6.19	...	...	...	...	...	...	...	...	605	41	114	188.43	12	18.58							
12	Coimbatore	24	5.83	2,168	53.11	30	7.28	...	...	...	...	3,905	...	658	168.50	62	15.05							
13	Erode	5	4.77	...	...	...	...	...	...	...	...	1,021	27	151	147.89	20	19.08							
14	Dharapuram	1	1.44	244	35.16	...	...	...	...	...	...	694	Nil	104	149.86	8	11.53							
15	Pollachi	4	4.66	501	58.32	4	4.66	...	...	...	...	831	28	147	178.90	6	6.98							
16	Tiruppur	7	6.41	369	33.79	4	3.66	...	...	...	...	1,054	37	193	187.86	15	13.75							
17	Udumalpet	2	3.27	402	65.79	5	8.18	...	...	...	...	600	11	97	161.67	3	4.91							
18	Cuddapah	6	5.31	612	54.11	8	7.07	...	...	...	...	1,074	57	141	131.28	20	17.68							
19	Proddatur	2	2.42	234	28.33	...	...	...	...	...	...	811	15	88	108.51	9	13.90							
20	Rajahmundry	10	5.27	1,020	41.34	16	6.49	10	4.25	...	...	2,853	114	640	271.99	41	16.62							
21	Cocoanada	9	4.80	888	40.3	6	2.87	...	...	...	...	2,029	64	562	276.98	23	10.51							
22	Peddapuram	1	2.84	248	35.28	...	...	...	...	...	...	683	20	106	155.20	10	14.22							
23	Ellore	5	3.07	417	17.30	8	3.32	...	...	...	...	2,359	52	249	105.55	20	8.90							

24	Palacole	...	...	2,208	74.92	94	31.90	30	...	487	2,688	13	25.84
25	Guntur	19	6.45	370	28.03	6	4.55	...	...	1,208	1,873	68	22.40
26	Penali	2	1.51	346	44.08	6	7.87	...	...	712	162.21	11	8.33
27	Chirala	3	3.94	341	38.71	12	13.57	12	14.81	810	165.73	14	18.37
28	Ongole	...	...	194	34.52	...	...	...	...	536	187.65	22	24.89
29	Narasaraopet	5	1.85	813	30.02	4	1.48	...	...	2,489	220.15	13	23.18
30	Berwada	10	3.83	1,367	52.35	20	7.65	16	6.43	2,182	250.57	51	18.83
31	Masulipatam	13	7.46	1,139	66.57	42	24.55	24	14.27	1,682	253.38	29	11.11
32	Kornool	6	7.46	332	41.39	15	13.46	25	33.78	740	101.66	13	7.60
33	Nandral	82	2.57	13,026	40.80	170	5.32	93	3.05	30,539	222.27	289	9.05
34	Madras	41	4.70	4,382	50.22	100	11.46	24	2.75	8,275	201.45	94	10.77
35	Madura	9	4.07	1,050	47.48	4	1.81	...	...	2,153	145.84	16	7.24
36	Dindigul	2	1.72	274	23.58	...	...	...	...	1,149	161.01	3	2.58
37	Rodnayakkanur	3	3.76	200	25.09	2	...	...	...	779	183.84	15	18.82
38	Palni	3	1.94	274	26.54	2	1.94	...	...	995	204.02	7	6.79
39	Periyakulam	3	8.47	298	84.18	...	...	...	...	338	180.47	2	5.65
40	Kodaikanal	24	4.93	1,751	35.94	16	3.29	8	1.72	4,346	117.52	65	13.36
41	Calicut	7	3.33	870	67.79	11	5.24	3	2.31	2,031	161.50	18	8.98
42	Palghat	10	7.68	882	67.79	8	6.15	3	...	1,224	124.18	14	10.76
43	Cannanore	6	5.18	559	48.31	6	5.18	...	...	1,088	99.28	15	12.96
44	Tellicherry	8	5.91	591	65.81	4	4.45	...	...	856	133.18	9	10.02
45	Cochin	26	10.43	1,856	74.48	99	39.72	31	12.44	2,269	180.25	57	6.53
46	Nellore	10	9.33	370	81.15	23	27.03	6	5.59	1,043	185.14	10	18.55
47	Ootacamund	7	12.99	408	75.70	8	14.54	8	14.84	2,937	157.35	42	13.14
48	Cocunoor	34	10.63	1,638	51.17	78	24.40	36	11.26	1,322	158.09	21	14.95
49	Vellore	2	1.42	234	16.65	...	...	...	...	834	145.28	16	18.32
50	Tiruvannamalai	4	4.63	293	33.91	...	...	...	...	799	100.13	14	16.34
51	Vaniyambadi	2	2.33	356	41.54	8	9.38	...	...	366	150.27	5	13.55
52	Tirupattur	1	2.71	157	42.54	...	...	...	...	1,160	129.31	15	12.67
53	Walajpet	2	1.69	272	22.97	...	...	...	...	1,269	220.65	18	13.77
54	Srivilliputtur	4	3.06	170	13.01	10	7.65	...	...	475	71.58	5	10.46
55	Virudhunagar	...	...	217	45.40	...	...	...	...	681	136.36	8	11.53
56	Sivakasi	4	6.76	274	39.48	...	...	...	...	3,623	163.12	38	10.20
57	Karaikudi	22	2.86	2,023	54.32	21	5.68	...	...	2,356	156.20	44	18.00
58	Salem	7	4.34	1,035	42.33	...	...	...	...	880	180.68	13	14.12
59	Cuddalore	4	4.00	553	60.04	2	2.17	...	...	711	135.02	21	28.04
60	Chidambaram	3	4.00	434	57.94	...	...	...	...	2,447	106.25	35	13.60
61	Vilupuram	23	8.93	1,670	64.84	41	15.93	7	2.72	2,581	167.76	33	11.74
62	Mangalore	12	4.27	1,494	53.15	24	8.53	...	...	465	168.05	61	20.84
63	Kumbakonam	14	4.78	1,293	44.17	16	5.47	...	...	2,767	148.77	34	18.71
64	Tanjore	10	5.49	774	43.59	12	6.99	Nil	Nil	1,046	137.67	15	13.76
65	Negapatam	5	4.59	471	43.21	2	1.53	...	...	620	138.55	7	11.09
66	Mayavaram	6	9.51	133	20.44	...	...	...	...	...	...	...	...
67	Tiruvannamalai	...	...	...	...	...	...	...	...	...	...	...	...

ANNEXURE E—cont.

Maternity Relief and Child-welfare—Municipalities—cont.

Number.	Name of municipality.	(1)	(2)	(3)	Area in square miles.	(4)	Total revenue.	(5)	Rs.	Amount spent on Maternity and Child-welfare.	Rs.	(6)	Maternity and Child-welfare Centres.			Medical women.			Number of Health visitors.		Midwives.			(17)
													Local Bodies.	Aided and managed by private bodies.	Appointed for Maternity and Child-welfare work.	Available as consultants.	Per 1,000 births.	Local Bodies.	Private.	In full time domiciliary service.	Local Bodies.	Private.	In hospitals and dispensaries (Government, Local Fund and private).	
68	Mannargudi	..	..	4.20	81,390	742	0.61	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
69	Tinnevely	..	..	8.58	23,712	1,442	0.63	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	
70	Palamcottah	..	..	4.84	97,775	1,065	1.08	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	
71	Tuticorin	..	..	3.07	4,45,991	8,551	0.71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
72	Trichinopoly	..	..	8.90	11,36,535	12,325	1.08	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	..	
73	Srirangam	..	..	5.07	1,48,155	965	0.65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
74	Karur	..	..	2.33	1,20,663	423	0.35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
75	Vizagapatam	..	..	6.13	3,55,024	1,929	0.54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
76	Vizianagaram	..	..	3.60	2,21,750	2,248	0.82	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
77	Anakapalle	..	..	..	..	730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
78	Bimlipatam	..	..	0.52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
79	Udipi	..	..	3.70	37,000	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
80	Gudivada	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
81	Devakottai	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
82	Gudiyattam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
83	Chitacole	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	Total for the Municipalities	..	..	..	2,56,87,381	2,92,646	1.12	65	17	23	92	0.72	40	4	280	43	132	218	..	..	..	..	..	
	Total for Districts exclusive of Municipalities	..	..	..	..	99,931	..	112	12	14	37	0.083	8	..	160	10	2	569	..	..	..	..	..	
	Grand total for the Presidency	..	..	..	..	3,92,577	..	177	29	37	129	0.096	48	4	440	53	134	787	..	..	..	..	..	

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ANNEXURE E—cont.

Maternity Relief and Child-welfare—Municipalities—cont.

Number.	Name of municipality.	Midwives—cont.		(18)	(19)	(20)	(21)	Beds in hospitals, exclusively for				(26)	(27)	(28)	(29)	(30)	(31)
		Total.	Per 1,000 births.					Maternity.		Children's diseases.							
								Number.	Per 1,000 births.		Number.						
68	Mannargudi	3	2.98	597	59.21	4	3.97	..	..	933	74	121	129.69	15	14.90		
69	Tinnevely	6	2.71	883	89.86	Nil	Nil	..	..	2,142	73	437	204.01	26	11.29		
70	Palamcottah	4	3.57	274	24.49	..	..	..	..	1,030	89	139	134.95	31	27.70		
71	Tuticorin	6	2.62	1,130	44.40	28	12.24	..	..	2,212	75	450	203.44	28	12.24		
72	Trichinopoly	24	4.66	2,349	45.65	20	3.89	..	..	4,966	179	843	169.75	69	13.41		
73	Srirangam	4	4.51	487	54.97	4	4.51	..	..	848	38	176	207.55	9	10.16		
74	Karur	1	1.31	191	25.00	6	7.85	..	..	741	23	114	153.85	6	7.85		
75	Vizagapatam	18	7.28	1,258	50.89	32	12.94	..	..	2,403	69	570	237.20	23	9.30		
76	Vizianagaram	6	3.10	563	29.05	16	8.28	..	..	1,383	55	392	203.18	17	8.77		
77	Anakapalle	2	1.99	390	38.93	..	..	..	..	973	28	257	264.13	15	14.99		
78	Bimlipatam	..	..	..	..	..	..	..	..	408	13	93	227.94	3	7.13		
79	Udipi	7	9.10	382	40.66	12	15.60	38	51.98	731	38	92	125.85	6	7.80		
80	Gudivada	..	..	..	..	..	..	..	..	776	41	214	275.77	15	18.36		
81	Devakottal	..	..	..	..	..	..	..	..	547	23	67	104.20	7	12.28		
82	Gudiyattam	..	..	..	..	..	..	..	..	1,171	42	182	155.42	17	14.01		
83	Chitacole	..	..	..	..	..	..	..	..	667	20	105	157.42	8	11.64		
	Total for the Municipalities	673	4.22	68,466	42.85	985	6.16	385	2.52	152,679	7,110	27,828	182.26	2,024	12.67		
	Total for Districts exclusive of Municipalities	934	0.80	..	..	420	0.27	48	0.031	1,548,983	16,252	261,026	168.51	12,565	8.03		
	Grand total for the Presidency	1,607	0.93	..	..	1,405	0.81	433	0.25	1,701,662	23,362	288,854	169.75	14,589	8.46		

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ANNEXURE F.

Details of Maternity and Child-welfare work in Districts (exclusive of Municipalities) in 1937.

Serial number.	Name of District.	Brought under care.						Home Visits.				Clinics.				Mothers' classes.		Other activities.			
		Total number of cases.	Ante-natal mothers.	Labour cases.	Infants.	Pre-School.	Woman Medical Officer.	Health Visitor.	Midwives.		Number held.	Attendances.			Number held.	Attendances.	Lantern lectures, etc.	Schools visited for health education.			
									Ante-natal.	Post-natal.		Ante-natal.	Infants.	Pre-School.				Nursing mothers.	Number.	Attendances.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1	Anantapur	636	613	254	252	45	2,710	...	4,860	2,839	127	190	141	138	65	60	597	9	100	3	390
2	Chittoore	20,495	3,183	1,085	426	87	1,295	1,897	21,700	11,924	81	207	135	271	860	21	1,831	8	484	64	2,085
3	Godavari, East	4,330	3,547	578	290	171	2,327	...	18,172	4,402	45	310	320	185	1,334	72	2,178	36	686	...	...
4	Godavari, West	1,971	761	725	766	275	2,362	4,621	11,750	5,921	31	842	130	92	210	230	6,150	55	2,275	120	725
5	K. R. S.	1,925	1,625	826	849	462	849	5,156	4,053	5,468	13	72	64	133	147	24	267	10	1,510	21	2,315
6	Karimnool	312	269	101	182	73	...	3,116	1,529	1,184	...	...	...	...	...	...	...	...	...	...	...
7	Madras	379	296	196	205	236	...	4,722	2,349	3,263	253	158	1,112	343	501	159	2,796	...	...	...	...
8	The Nilgiris	211	139	72	...	...	...	...	489	109	...	...	...	...	...	...	...	...	...	...	...
9	Ramnad	1,686	1,203	969	311	...	...	...	8,247	8,452	...	176	754	1,075	945	41	629	...	...	...	...
10	Salem	6,169	6,169	2,597	199	208	...	1,484	43,918	24,963	38	162	102	78	410	36	243	...	...	...	...
11	Trichinopoly	571	569	214	5,272	208	677	...	6,436	1,234	...	...	...	...	...	...	...	...	...	...	...
12	East Tanjore	7,100	7,100	1,741	323	14,511	444	2,190	8,158	8,854	9,276	2,365	9,868	65,331	3,987	331	980	25	1,258	9	639
13	South Arcot	484	160	230	...	569	2,646	...	654	1,077	69	152	176	217	63	97	306	...	...	...	...
14	Visakhapatnam	792	792	302	...	...	...	896	800	1,337	...	...	...	...	...	107	2,433	...	...	...	...
15	Cuddapah	180	180	150	...	...	...	...	1,080	191	...	...	...	...	...	...	...	...	...	...	...
16	Nellore	688	688	135	...	...	...	...	688	405	...	...	...	...	...	...	...	...	...	...	...
17	North Arcot	478	343	135	...	...	17	...	484	1,401	8	35	239	...	...	9	229	...	...	...	...
18	Chingleput	12,020	12,020	1,863	...	...	256	...	12,020	8,061	...	...	...	...	...	...	...	...	...	...	...
	Total for Districts	59,427	39,661	12,163	9,075	16,800	11,783	19,441	147,987	91,930	9,989	4,069	13,031	67,893	7,492	1,177	18,689	156	7,728	254	7,366

Note.—Blanks indicate either that work is not undertaken or that correct figures are not available.

ANNEXURE G.

Details of Maternity and Child-welfare work under Municipalities in the year 1937.

Serial number and Name of Municipalities.	Brought under care.					Home Visits.			Clinics.					Mothers' classes.		Other activities.				
	Total number of cases.	Ante-natal mothers.	Labour cases.	Infant.	Pre-School.	Woman Medical Officer.	Health Visitors.	Midwives.		Number held.	Attendance.			Number.	Attendance.	Lantern lectures, etc.		Schools visited for health education.		
								Ante-natal.	Post-natal.		Infant.	Pre-School.	Nursing mothers.			Number.	Attendance.		Number.	Attendance.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1. Hindupur	347	343	161	107	...	249	...	1,805	1,240	...	...	...	...	...	...	...	4	460	...	...
2. Arani	184	86	477	111	121	...	2,435	...	1,607	93	466	4,375	5,458	3,319	20	271	...	4	258	2
3. Bellary	594	374	253	...	...	...	...	384	1,769	...	...	...	...	...	...	...	...	...	...	...
4. Hospet	273	167	240	...	...	...	...	3,800	1,968	...	...	...	...	...	...	...	...	...	...	...
5. Saidapet	720	1,931	585	...	...	...	...	...	2,793	...	...	...	...	...	...	...	...	...	...	...
6. Chingleput	600	540	494	...	...	...	...	4,276	4,356	365	...	...	...	...	...	...	2	400	4	410
7. Chittoor	619	571	309	...	...	...	...	1,568	1,809	28	58	...	...	...	...	...	...	...	5	102
8. Tirupati	428	375	184	88	37	...	1,065	...	1,464	96	451	473	...	...	...	...	...	...	6	631
9. Erode	416	510	281	...	...	...	...	...	2,338	...	...	...	...	...	...	...	...	...	...	...
10. Pollachi	633	623	435	...	...	...	...	8,219	6,073	...	...	...	...	...	...	...	1	300	8	1,400
11. Dharmapuri	447	363	219	...	...	...	...	447	7,223	85	1,354	...	...	...	...	...	...	...	...	...
12. Coimbatore	2,872	2,460	1,190	1,122	354	1,380	12,747	2,340	13,923	245	1,068	623	611	392	223	1,474	11	810	34	1,581
13. Cuddapah	308	371	208	...	...	...	...	371	3,450	...	...	...	...	...	...	...	...	...	...	...
14. Ocaanada	838	313	838	...	...	...	...	10,130	9,580	...	...	...	...	...	...	...	...	...	...	...
15. Ellore	417	...	417	...	...	...	...	...	1,186	...	...	...	...	...	...	...	...	...	...	...
16. Guntur	181	113	149	...	...	...	...	854	638	...	...	...	...	...	...	...	12	528	...	...
17. Tenali	131	131	131	...	...	...	...	786	786	...	...	...	...	...	...	...	...	...	...	...
18. Masulipatam	928	...	928	...	...	...	...	1,476	1,531	...	...	...	...	...	...	...	3	1,540	...	...
19. Beawada	767	300	546	510	104	863	3,373	649	2,434	92	190	125	50	65	36	316	33	500	18	1,500
20. Dindikal	2,685	1,607	735	289	131	...	4,272	3,897	4,762	18	57	70	107	25	21	193	10	380	4	1,520
21. Kodakanal	330	230	230	...	...	...	...	3,262	6,580	...	...	...	...	...	...	...	...	...	...	...
22. Madura	6,883	5,270	1,613	16,930	12,171	1,341	...	3,122	10,353	1,841	5,151	9,882	10,500	423	...	...	78	5,700	...	...
23. Periyakulam	253	258	106	...	...	...	...	256	1,752	303	152	10,644	7,704	2,864	303	2,364	8	1,935	2	125
24. Cochin	1,234	430	134	670	...	...	...	480	670	...	...	...	...	...	...	...	2	400	2	600
25. Cannanore	683	128	683	114	297	...	...	2,629	6,447	...	...	...	...	...	...	...	3	320	...	...
26. Tellicherry	760	760	372	...	...	...	...	904	1,832	...	...	...	...	...	...	...	3	230	...	...
27. Ottacamund	653	617	274	453	195	2,239	1,913	7,240	2,670	338	566	1,139	1,134	1,139	76	1,362	9	86	...	570

ANNEXURE G—cont.

Details of Maternity and Child-welfare Work under Municipalities—cont.

Serial number and Name of Municipalities.	Brought under care.					Home Visits.				Clinics.					Mothers' classes.		Other activities.				
	Total number of cases.	Anti-natal moth-ers.			Infant.	Pre-School.	Woman Medical Officer.	Health Visitors.	Midwives.		Number held.	Attendance.			Number.	Attendance.	Lantern lectures, etc.		Number.	Attendance.	Schools visit-ed for health education.
		Ante-natal.	Post-natal.	Ante-natal.					Ante-natal.	Post-natal.		Infant.	Pre-School.	Nursing mothers.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
28. Coonoor ...	355	326	159	63	99	514	...	2,336	1,537	219	78	3,253	6,306	2,041	40	559	2	210	21	536	
29. Nivilliputtur ...	309	309	148	...	...	...	...	309	1,332	...	...	...	...	...	...	...	...	...	...	...	
30. Karaikudi ...	257	225	137	...	...	...	...	2,080	605	27	107	148	53	...	27	155	...	...	...	...	
31. Salem ...	2,927	2,351	1,432	778	800	1,011	10,312	5,577	10,285	263	986	1,603	4,494	1,608	19	387	29	1,528	...	...	
32. Chidambaram ...	514	514	324	...	...	...	...	1,212	2,312	102	174	...	...	114	13	196	...	...	4	75	
33. Mangalore ...	664	349	589	...	...	801	...	1,178	5,374	...	...	...	...	...	2	25	...	...	...	...	
34. Kumbakonam ...	563	200	503	...	...	768	...	730	420	...	...	...	...	...	...	...	...	...	...	...	
35. Negapatam ...	321	315	262	...	...	...	...	2,315	2,654	198	530	404	740	30	26	477	...	...	...	...	
36. Mannargudi ...	630	548	389	18	49	...	...	3,383	4,520	...	...	...	...	...	...	...	...	...	...	...	
37. Mayavaram ...	567	567	471	...	...	...	...	567	2,304	...	...	...	...	...	...	...	...	...	...	...	
38. Tuticorin ...	581	...	...	...	...	...	...	2,407	5,362	...	...	...	...	...	...	...	...	...	...	...	
39. Trichinopoly ...	1,542	738	1,192	710	...	1,446	8,310	688	7,289	87	139	101	...	441	102	441	12	228	...	2,000	
40. Srirangam ...	410	262	374	...	...	...	...	833	8,850	...	...	...	...	...	8	330	11	...	...	...	
41. Vizagapatam ...	669	669	640	...	...	...	...	6,219	3,840	...	...	...	...	...	...	...	...	...	...	...	
42. Vizianagaram ...	511	246	265	190	35	963	...	685	659	144	246	190	35	225	48	190	12	240	...	...	
43. Madras ...	14,854	11,278	12,926	64,650	11,863	4,066	110,881	29,370	130,579	2,080	17,497	9,750	3,736	104,589	462	7,920	585	22,444	...	...	
44. Tanjore ...	188	...	187	...	...	...	...	807	1,474	...	...	...	...	...	3	27	...	...	...	...	
45. Tinnevely ...	760	540	181	157	22	360	...	540	610	366	11	589	17	170	3	...	...	...	...	...	
46. Bodinayakanur ...	80	80	80	...	...	...	...	214	531	28	104	...	...	...	30	552	...	...	...	...	
47. Vellore ...	1,031	664	995	531	46	...	...	2,834	1,264	...	...	...	...	...	...	...	...	...	...	...	
48. Tiruvannamalai ...	390	280	131	...	...	...	...	383	1,259	...	...	...	...	...	...	...	...	...	...	...	
49. Walajpet ...	350	...	350	...	...	...	...	350	1,050	...	...	...	...	...	...	...	...	...	...	...	
50. Peddapuram ...	179	159	179	...	...	...	...	1,633	1,404	...	...	...	...	...	...	...	...	...	...	...	
51. Chirala ...	407	389	124	...	...	...	...	336	504	...	...	...	...	...	...	...	...	...	...	...	
52. Ongole ...	168	168	168	...	...	...	...	1,219	1,968	...	...	...	...	...	...	...	...	...	...	...	
53. Cuddalore ...	2,450	771	646	3	9	83	...	494	741	...	...	...	...	...	...	...	...	...	...	...	
54. Tiruppur ...	314	314	247	...	...	...	...	356	534	...	...	...	...	...	...	...	...	...	...	...	
55. Udumalpet ...	209	79	178	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
56. Pelliachi ...	623	435	...	...	...	...	...	623	1,305	...	...	...	...	...	...	...	...	1	3	8	1,600
57. Vilupuram ...	267	116	...	...	...	...	...	1,068	1,160	...	...	...	...	...	...	...	...	...	...	...	...
Total for Municipalities ...	57,447	41,761	87,797	26,245	17,578	150,318	128,905	299,413	6,536	29,524	47,595	57,425	117,445	1,571	20,793	888	40,620	164	11,788	...	
Total for Districts ...	59,427	29,504	9,076	16,800	11,783	19,441	147,657	91,930	9,989	4,069	13,031	67,862	7,492	1,177	18,689	156	7,726	254	7,366	...	
Grand total for the Presidency ...	116,874	71,265	96,872	43,045	29,366	169,759	276,592	391,343	16,515	33,593	60,626	125,287	124,937	2,748	39,482	1,045	48,346	418	19,154	...	

* Attendance for feeding and baths.

ANNEXURE H.

Summary of the working of the Ports in Madras Presidency in 1937.

Serial number.	Name of Port.	Incoming vessels.		Out-going vessels.		Infectious diseases.		Action taken.	Rates on steamers.
		Number.	Crew.	Passen- gers.	Number.	Crew.	Passen- gers.		
1	Barva	...	...	...	...	...	...	...	...
2	Calangapatam	62	5,934	17,080	62	6,002	17,380	Segregated, treated and discharged. Precau- tions taken on board the vessels.	...
3	Vizagapatam	52	...	...	54	...	...	...	...
4	Bimlipatam	30	...	...	30	...	...	...	...
5	Coonada	224	18,165	18,842½	238	18,149	12,819	...	...
6	Masulipatam	43	2,526	4	43	2,536	...	...	...
7	Madras	684	61,290	59,809	684	61,038	100,822	Landed and sent to In- fectious Diseases Hos- pital.	...
8	Cuddalore	181	15,461	283	159	15,881	194	...	...
9	Porto Novo	102	9,201	908½	112	9,290	2,309	...	...
10	Tranquebar	...	...	...	...	...	...	...	...
11	Nagapatam	26	4,729	29,888	39	7,003	64,020	The personal effects of contacts and patients were disinfected. Pa- tients landed and sent to Infectious Diseases Hospital.	...
12	Tirumalavasi	7	516	...	7	516	...	...	...
13	Toppenthurai and Pt. Calimere.	...	...	...	...	...	...	...	...
14	Muthupet	106	...	...	106	...	...	...	...
15	Adirampatnam	...	...	...	...	...	...	...	...
16	Armapatnam and Krishnarejapatnam.	6	34	4	4	27	...	...	...
17	Kottapatnam	...	...	...	...	...	...	...	...
18	Tondi	7	882	...	7	832	...	...	...
19	Devipatnam	...	...	...	...	...	...	...	...
20	Dhannakkodi	365	40	135,807	365	40	121,268	Segregated and treated in the Railway Dispen- sary.	...
21	Kilakkarai	208	...	...	216	...	...	...	...
22	Kulasekharapatnam	2	...	...	...	...	...	...	...
23	Tuticorin	470	35,747	42,292	470	35,747	56,838	...	...
24	Cochin	721	...	1,046	719	...	1,099	...	...
25	Calicut	681	30,271	642	531	30,280	554	...	...
26	Beypur	19	324	...	19	324	...	...	...
27	Tellicherry	246	18,207	114	248	18,207	148	...	...
28	Cannanore	481	15,192	251½	478	15,144	595½	...	...
29	Ponnani	141	7,763	1	141	7,763	1	...	...
30	Mangalore	43	3,146	...	43	3,146	...	...	...
31	Malpi and Hungerkota.	...	...	...	...	...	...	...	...
32	Gangoli	100	497	...	100	741½	...	...	...
33	Baindur and Shirur	287	1,834	5	279	1,753	...	...	...

APPEN

VITAL STATISTICS OF THE

No. I.—Statement showing the Births registered in the

Number. (1)	Population (exclusive of Europeans and Anglo-Indians) as per Census of 1931.			Districts. (5)	Population (exclusive of Europeans and Anglo-Indians) for which returns were received.		
	Males. (2)	Females. (3)	Total. (4)		Males. (6)	Females. (7)	Total. (8)
1	539,256	510,624	1,049,880	Anantapur	539,256	510,624	1,049,880
2	492,807	476,477	969,284	Bellary	492,807	476,477	969,284
3	835,017	816,414	1,651,431	Chingleput	835,017	816,414	1,651,431
4	738,216	708,674	1,446,890	Chittoor	738,216	708,674	1,446,890
5	1,217,407	1,225,963	2,443,370	Coimbatore	1,217,407	1,225,963	2,443,370
6	483,895	465,473	949,368	Cuddapah	483,895	465,473	949,368
7	828,134	851,181	1,679,315	Godavari, Plains.	828,134	851,181	1,679,315
8	120,793	119,727	240,520	Godavari, East.	120,793	119,727	240,520
9	602,301	620,710	1,223,011	Godavari, West.	602,301	620,710	1,223,011
10	1,028,919	1,006,613	2,035,532	Guntur	1,028,919	1,006,613	2,035,532
11	635,584	618,371	1,253,955	Kistna	635,584	618,371	1,253,955
12	520,202	504,685	1,024,887	Karnool	520,202	504,685	1,024,887
13	333,822	299,170	632,992	Madras	333,822	299,170	632,992
14	1,080,766	1,113,607	2,194,373	Madura	1,080,766	1,113,607	2,194,373
15	1,714,449	1,816,354	3,530,803	Malabar	1,714,449	1,816,354	3,530,803
16	743,994	741,592	1,485,586	Nellore	743,994	741,592	1,485,586
17	89,448	75,008	164,456	Nilgiris, The	89,448	75,008	164,456
18	1,130,978	1,134,766	2,265,744	North Arcot	1,130,978	1,134,766	2,265,744
19	872,098	866,710	1,738,808	Ramnad	872,098	866,710	1,738,808
20	1,211,188	1,221,787	2,432,975	Salem	1,211,188	1,221,787	2,432,975
21	1,224,591	1,229,020	2,453,611	South Arcot	1,224,591	1,229,020	2,453,611
22	663,804	708,150	1,371,954	South Kanara	663,804	708,150	1,371,954
23	1,143,509	1,241,930	2,385,439	Tanjore	1,143,509	1,241,930	2,385,439
24	986,657	1,069,083	2,055,740	Tinnevely	986,657	1,069,083	2,055,740
25	933,889	977,375	1,911,264	Trichinopoly	933,889	977,375	1,911,264
26	1,577,185	1,688,697	3,265,882	Vizagapatam	1,577,185	1,688,697	3,265,882
	96,891	97,367	194,258	Vizagapatam Agency.	...	...	...
	21,845,650	22,295,478	44,141,128	Grand total for the Presidency.	21,748,849	22,198,111	43,946,960
	3,114,871	3,083,913	6,198,784	Total of town circles in the Presidency.	3,119,472	3,088,382	6,207,854
	18,730,779	19,211,565	37,942,344	Total of rural circles in the Presidency.	18,629,377	19,109,729	37,739,106

DIX I.

GENERAL POPULATION.

Districts of the Madras Presidency during the year 1937.

Number of births registered (exclusive of Europeans and Anglo-Indians and still-births).			Ratio of births per 1,000 of population.			Mean ratio of births per 1,000 during the previous five years.			Number. (18)
Males. (9)	Females. (10)	Total. (11)	Males. (12)	Females. (13)	Total. (14)	Males. (15)	Females. (16)	Total. (17)	
24,181	23,653	47,834	22.97	22.52	45.49	20.38	19.40	39.78	1
22,431	21,659	44,090	23.15	22.35	45.50	20.19	19.37	39.56	2
32,428	31,263	63,691	19.65	18.95	38.60	18.40	17.40	35.80	3
26,898	25,987	52,885	18.58	17.94	36.53	17.87	17.23	35.07	4
48,119	45,535	93,654	19.68	18.64	38.32	19.29	18.32	37.62	5
19,255	18,191	37,446	20.28	19.16	39.43	18.59	17.82	36.41	6
34,495	32,637	67,132	20.52	19.42	39.94	19.03	18.30	37.33	7
4,941	4,626	9,567	20.54	19.23	39.78	...	...	...	...
28,499	27,008	55,507	23.31	22.09	45.40	20.85	19.74	40.62	8
39,844	37,801	77,645	19.56	18.56	38.12	19.72	18.71	38.42	9
29,401	27,810	57,211	23.43	22.16	45.60	21.27	20.32	41.59	10
22,930	22,121	45,051	22.38	21.59	43.97	21.30	20.61	41.91	11
15,720	14,819	30,539	24.84	23.41	48.25	23.05	22.06	45.11	12
42,174	40,302	82,476	19.23	18.38	37.61	18.30	17.31	35.61	13
68,471	65,570	134,041	19.38	18.56	37.93	20.78	18.30	37.48	14
26,904	25,223	52,127	18.11	16.98	35.08	18.71	17.64	36.35	15
3,006	2,809	5,815	18.28	17.57	35.85	16.77	16.18	32.95	16
49,258	46,815	96,073	21.72	20.65	42.37	20.16	19.34	39.51	17
31,546	30,186	61,732	17.16	16.42	33.58	15.98	15.29	31.27	18
46,248	44,451	90,699	19.01	18.27	37.23	18.38	17.60	35.98	19
44,204	42,389	86,593	18.04	17.29	35.33	16.18	15.67	32.25	20
25,775	24,260	50,035	18.79	17.69	36.48	19.74	18.73	38.45	21
39,014	37,533	76,547	16.35	15.73	32.07	15.74	14.89	30.63	22
42,318	40,814	83,132	20.69	19.96	40.65	19.31	18.39	37.70	23
35,260	34,243	69,503	18.44	17.91	36.35	17.85	16.95	34.85	24
66,975	63,605	130,580	20.49	19.46	39.96	19.96	19.09	39.05	25
...	...	...	...	...	...	...	...	...	26
870,240	831,422	1,701,662	19.80	18.92	38.72	18.92	18.02	36.93	
126,720	120,395	247,115	20.41	19.39	39.81	19.25	18.32	37.56	
743,520	711,027	1,454,547	19.70	18.84	38.54	18.86	17.97	36.83	

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No. I (a) showing the still-births registered according to classes and sex in the municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 1748, P.H., dated 18th July 1934)—cont.

Serial number.	Municipalities.	Still-births.								Percentage of total to live births.		
		Hindus.		Muham- madans.		Indian Christi- ans.		Other classes.			Total.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		Males.	Females.
	<i>Guntūr District.</i>											
25	Guntūr	108	86	22	16	14	18	...	...	144	115	9.6
26	Tenali	29	10	4	1	6	2	...	...	39	13	4.1
27	Chirala	24	18	3	...	3	2	...	...	30	20	7.0
28	Ongole	33	24	3	3	7	3	...	1	43	31	9.1
29	Narasaraopet	14	7	3	1	1	...	...	...	18	8	4.9
	<i>Kistna District.</i>											
30	Bezawada	39	21	9	7	3	3	...	...	51	31	3.1
31	Masulipatam	49	45	11	7	3	7	...	...	63	59	4.9
32	Gudivada	18	17	...	1	3	2	...	...	21	20	5.3
	<i>Kurnool District.</i>											
33	Kurnool	10	8	8	3	...	...	...	...	18	11	1.7
34	Nandyal	23	15	10	7	5	2	2	...	40	24	8.6
	<i>Madras.</i>											
35	Madras	616	533	106	78	30	23	1	1	763	635	4.5
	<i>Madura District.</i>											
36	Madura	283	181	11	7	6	12	...	...	250	200	5.4
37	Dindigul	22	21	3	3	6	3	...	...	31	27	2.3
38	Bodinayakkanur	5	4	1	2	1	...	...	...	7	6	1.1
39	Periyakulam	13	15	2	2	2	2	...	...	17	19	3.6
40	Palni	8	6	1	3	...	...	...	...	9	9	2.3
41	Kodaikanal	5	2	...	...	3	4	1	1	9	7	4.7
	<i>Malabar District.</i>											
42	Calicut	47	39	57	73	5	...	...	...	109	112	4.8
43	Palghat	26	31	8	2	...	1	...	...	34	34	3.3
44	Cannanore	31	23	10	10	1	2	...	...	42	35	6.3
45	Tellicherry	23	13	19	14	...	...	...	...	42	27	6.3
46	Cochin	4	7	5	3	16	7	...	...	25	17	4.9
	<i>Nellore District.</i>											
47	Nellore	114	71	13	19	2	3	...	...	129	98	9.8
	<i>Nilgiris, the.</i>											
48	Ootacamund	8	8	3	3	3	3	1	...	15	14	2.8
49	Coonoor	6	3	2	1	3	3	1	2	12	9	4.1
	<i>North Arcot District.</i>											
50	Vellore	94	83	13	17	1	2	...	...	108	102	7.0
51	Tiruvannamalai	37	35	7	1	2	1	...	...	46	37	6.3
52	Gudivattam	24	14	2	2	...	...	...	...	26	16	3.6
53	Vaniyambadi	8	6	8	7	1	...	...	...	17	13	3.6
54	Tirupattur	31	17	5	5	...	...	...	...	36	22	7.3
55	Walajapet	1	2	...	...	...	...	...	...	1	2	0.8

No. I (a) showing the still-births registered according to classes and sex in the municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 1748, P.H., dated 18th July 1934)—cont.

Serial number.	Municipalities.	Still-births.										Percentage of total to live births.
		Hindus.		Muham- madans.		Indian Christi- ans.		Other classes.		Total.		
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
Ramnad District.												
56	Virudhunagar ...	19	13	4	...	...	2	...	...	23	15	3.0
57	Srivilliputtur ...	11	11	...	...	1	1	...	...	12	12	2.1
58	Karaikudi ...	5	8	...	...	...	...	...	...	5	8	1.9
59	Sivakasi ...	1	2	...	...	...	...	...	...	1	2	0.6
60	Devakottai ...	17	5	1	...	...	...	...	...	18	5	4.2
Salem District.												
61	Salem ...	49	40	2	6	2	2	...	...	53	48	2.8
South Arcot District.												
62	Cuddalore ...	41	40	3	1	...	2	2	...	46	43	3.8
63	Chidambaram ...	23	14	1	1	...	2	...	...	24	17	4.7
64	Villupuram ...	16	13	2	3	...	...	2	2	20	18	5.3
South Kanara District.												
65	Mangalore ...	45	35	10	6	15	16	...	...	70	57	5.2
66	Udipi ...	12	16	1	5	1	3	...	...	14	24	5.2
Tanjore District.												
67	Tanjore ...	90	45	2	5	7	11	...	...	99	61	5.8
68	Kumbakonam ...	126	88	2	4	6	4	...	...	134	96	8.9
69	Negapatam ...	40	35	10	10	1	7	...	...	51	52	6.0
70	Mayavaram ...	27	18	1	1	...	2	...	...	28	16	4.2
71	Tiruvarur ...	5	3	2	1	...	...	...	...	7	4	1.8
72	Mannargudi ...	37	32	1	2	...	2	...	...	40	34	7.9
Tinnevelly District.												
73	Tuticorin ...	29	22	2	2	8	12	...	...	39	36	3.4
74	Tinnevelly ...	44	27	1	1	...	1	...	...	44	29	3.4
75	Palamcottah ...	45	29	4	1	4	6	...	...	53	36	8.6
Trichinopoly District.												
76	Trichinopoly ...	73	62	13	13	8	10	...	...	94	85	3.6
77	Srirangam ...	18	18	...	...	2	...	...	...	20	18	4.5
78	Karur ...	14	7	1	...	...	1	...	...	15	8	3.1
Vizagapatam District.												
79	Vizagapatam ...	38	26	3	...	...	2	...	...	41	28	2.9
80	Vizianagram ...	30	25	...	...	...	...	...	...	30	25	2.9
81	Anakapalle ...	12	15	1	...	...	...	...	...	13	15	2.9
82	Chicacole ...	7	12	...	...	1	...	...	...	8	12	3.0
83	Bimlipatam ...	6	7	...	...	...	1	...	...	5	8	3.7
Total ...		3,186	2,550	517	434	194	206	14	9	3,911	3,199	4.1

No. II.—Statement showing Deaths registered in the Districts of the Madras Presidency during the year 1937.

Number.	Districts.	Number of deaths registered.			Ratio of deaths per 1,000 of population from				
		Males.	Females.	Total.	Cholera.	Smallpox.	Plague.	Fever.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Anantapur ...	6,741	155.8	12,011	0.09	0.01	0.02	0.59	...
2	Bellary ...	6,713	169.7	13,204	1.15	0.03	0.04	6.68	...
3	Chingleput ...	3,091	535.1	20,916	0.69	0.10	...	3.69	...
4	Chittoor ...	5,901	245.2	16,399	0.38	0.06	0.03	6.45	...
5	Colimbatore ...	7,085	345.1	27,641	1.35	0.08	0.02	10.74	...
6	Gondal ...	5,819	160.4	11,190	0.69	0.03	...	8.63	...
7	Gondal ...	2,544	680.0	19,835	0.02	0.01	...	16.04	...
8	Gondal ...	3,675	65.4	16,804	...	0.03	...	7.35	...
9	Guntur ...	5,757	353.6	27,100	0.39	0.02	...	8.87	...
10	Kistna ...	8,547	353.5	18,194	0.51	0.03	...	8.27	...
11	Kurnool ...	7,581	135.2	14,646	0.40	0.05	0.005	13.70	...
12	Madras ...	29	22,194.8	13,131	0.36	0.31	...	3.47	...
13	Madras ...	4,912	446.8	26,054	0.35	0.05	0.25	3.59	...
14	Madras ...	5,794	609.8	36,193	0.04	0.06	0.002	4.84	...
15	Madras ...	7,949	186.9	18,646	0.56	0.02	...	7.13	...
16	Madras ...	3,882	189.1	1,979	0.05	0.02	0.45	7.82	...
17	Madras ...	4,648	457.6	26,326	0.31	0.03	0.004	5.10	...
18	Madras ...	4,819	381.5	20,975	0.76	0.08	...	7.42	...
19	Madras ...	7,058	344.7	27,089	1.37	0.10	0.14	6.47	...
20	Madras ...	4,208	583.3	26,272	0.55	0.10	...	3.74	...
21	Madras ...	3,742	637.5	28,399	0.09	0.01	0.002	7.45	...
22	Madras ...	4,315	474.3	25,259	1.25	0.08	...	2.47	...
23	Madras ...	4,314	443.4	23,247	0.12	0.04	...	4.17	...
24	Madras ...	5,968	547.2	43,603	1.09	0.06	0.001	3.94	...
25	Madras ...	2,761	70.8	...	0.07	...	...	13.86	...
26	Madras ...	...	...	...	...	...	...	...	...
Grand total for the Presidency.		125,438	3,52	534,349	0.53	0.06	0.03	6.52	...
Total of town circles in the Presidency ...		...	...	86,781	0.51	0.08	0.04	4.23	...
Total of rural circles in the Presidency ...		...	...	447,568	0.53	0.05	0.02	6.90	...

No. II.—Statement showing Deaths registered in the Districts of the Madras Presidency during the year 1937—cont.

Number.	Districts.	Ratio of deaths per 1,000 of population from										Mean ratio of deaths per 1,000 during previous five years.			Number.
		Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child birth.	All other causes.	All causes.		Males.	Females.	Total.				
							Males.	Females.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
1	Anantapur ...	1.61	1.49	0.42	0.51	12.09	22.27	23.44	22.83	24.82	25.56	25.14	25.14		
2	Bellary ...	1.64	2.23	0.31	0.33	14.12	26.79	26.25	26.54	31.24	31.29	31.27	31.27		
3	Chingleput ...	1.87	2.25	0.31	0.33	15.55	25.05	24.49	24.79	23.23	22.89	22.81	22.81		
4	Chittoor ...	2.65	1.74	0.32	0.31	10.42	22.21	22.51	22.35	21.05	21.20	21.13	21.13		
5	Coimbatore ...	2.57	3.22	0.37	0.22	10.03	22.71	21.71	22.19	22.40	20.87	20.87	20.87		
6	Cuddapah ...	1.40	1.17	0.32	0.39	8.41	23.12	23.34	23.22	21.45	21.60	21.53	21.53		
7	Godavari, {Plains East.	1.17	2.17	0.22	0.37	10.73	23.95	22.74	23.32	23.78	22.79	23.28	23.28		
8	Godavari, {Agency West	0.86	2.21	0.23	0.38	5.12	25.68	24.05	24.87	27.42	24.32	24.79	24.79		
9	Guntur ...	1.84	2.39	0.26	0.43	14.12	27.90	26.22	27.06	24.37	23.41	23.80	23.80		
10	Kistna ...	2.41	2.32	0.28	0.33	11.32	26.34	25.46	25.89	24.69	24.17	24.48	24.48		
11	Kurnool ...	2.20	2.51	0.30	0.47	14.32	28.62	28.65	28.64	27.52	27.60	27.56	27.56		
12	Madras ...	1.74	1.51	0.39	0.33	10.15	28.15	28.38	28.27	27.48	27.80	27.85	27.85		
13	Madras ...	3.88	12.37	0.27	0.43	19.57	39.34	41.02	40.14	36.48	38.00	37.11	37.11		
14	Malabar ...	1.97	3.57	0.35	0.24	12.75	24.10	22.16	23.14	24.85	22.81	23.85	23.85		
15	Nellore ...	2.12	2.27	0.29	0.24	10.20	21.12	19.10	20.06	23.10	21.12	22.09	22.09		
16	Nilgiris, the ...	2.51	1.26	0.32	0.27	12.17	25.06	23.51	24.28	23.16	21.60	22.53	22.53		
17	North Arcot ...	2.65	4.19	0.37	0.26	7.11	23.12	23.64	22.82	22.07	23.17	22.53	22.53		
18	Ramanad ...	2.57	2.17	0.40	0.28	12.08	23.19	32.66	22.91	23.48	22.17	23.20	23.20		
19	Salem ...	1.72	2.62	0.21	0.27	9.97	24.05	22.10	23.08	22.95	20.53	21.68	21.68		
20	South Arcot ...	1.33	1.42	0.35	0.24	10.72	22.37	21.91	22.14	20.25	19.88	20.08	20.08		
21	South Kanara ...	1.98	1.68	0.25	0.37	18.17	22.03	21.38	21.73	24.18	23.40	23.79	23.79		
22	Tanjore ...	1.50	1.59	0.37	0.37	10.73	23.16	21.12	22.11	22.74	20.70	21.90	21.90		
23	Tinnevely ...	1.14	1.12	0.30	0.58	17.34	24.96	23.67	24.28	25.13	23.93	24.50	24.50		
24	Trichinopoly ...	1.91	1.80	0.24	0.35	16.77	25.60	23.28	24.41	27.25	24.86	26.01	26.01		
25	Trichinopoly ...	1.86	2.13	0.32	0.43	14.89	24.89	23.60	24.22	24.30	23.12	23.69	23.69		
26	Vizagapatam ...	1.66	1.32	0.22	0.26	9.06	27.65	25.42	26.48	27.08	24.61	25.83	25.83		
27	Agencies (Vizagapatam) ...	...	...	...	...	...	...	...	...	...	...	...	...		
28	Grand total for the Presidency.	1.92	3.18	0.30	0.33	12.12	24.37	23.43	23.99	24.36	23.12	23.75	23.75		
29	Total of town circles in the Presidency ...	2.73	4.69	0.41	0.43	14.15	27.82	26.60	27.21	26.96	26.04	26.51	26.51		
30	Total of rural circles in the Presidency ...	1.78	1.79	0.29	0.31	11.79	24.02	22.92	23.46	28.97	22.63	23.80	23.80		

No. III.—DEATHS REGISTERED IN DISTRICTS, EXCLUSIVE OF MUNICIPALITIES, AND IN THE MUNICIPALITIES OF THE MADRAS PRESIDENCY DURING EACH MONTH OF THE YEAR 1937.

No. III.—Deaths registered in Districts, exclusive of Municipalities, and in the

Serial number.	Districts exclusive of municipalities.	January.	February.	March.	April.	May.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Anantapur	2,221	1,637	1,624	1,670	1,960
2	Bellary	2,033	1,545	1,808	1,725	1,867
3	Chingleput	4,151	3,021	2,698	2,897	2,690
4	Chittoor	3,755	2,424	2,182	2,149	2,620
5	Coimbatore	4,412	3,393	3,737	3,841	4,467
6	Cuddapah	1,817	1,302	1,260	1,290	1,822
7	Godāvari, East { Plains	3,322	2,363	2,362	2,368	2,525
	Agency	732	458	442	438	418
8	Godāvari, West	2,886	2,102	2,224	2,125	2,304
9	Guntūr	4,563	3,163	3,234	2,875	3,609
10	Kistna	2,527	2,015	2,058	2,027	2,460
11	Kurnool	2,433	1,917	2,058	2,015	2,459
12	Madura	4,382	2,642	2,992	3,274	3,080
13	Malabar	4,706	4,279	4,519	5,278	6,059
14	Nellore	3,979	2,613	2,430	2,296	2,611
15	Nilgiris, the	213	147	194	255	268
16	North Arcot	6,116	3,907	3,377	3,178	3,509
17	Ramnad	4,329	3,173	3,000	2,614	3,039
18	Salem	5,069	3,467	3,903	4,266	4,566
19	South Arcot	5,771	3,989	3,452	3,279	3,597
20	South Kanara	3,098	2,537	2,351	1,905	1,980
21	Tanjore	6,938	4,355	3,579	3,138	3,526
22	Tinnevely	5,107	3,521	3,329	3,091	3,415
23	Trichinopoly	4,646	3,068	2,587	3,252	3,214
24	Vizagapatam	7,799	5,360	6,354	5,860	5,708
	Total for districts exclusive of municipalities.	97,005	68,428	67,758	68,596	73,713
	* Ratio per mille of population.	28.38	22.16	19.83	20.13	21.57

* The ratios were calculated with reference

Municipalities of the Madras Presidency during each month of the year 1937.

June.	July.	August.	September.	October.	November.	December.	Total.	Serial number.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
1,919	1,856	1,830	1,771	1,843	2,065	2,738	23,134	1
1,792	2,115	2,420	1,987	1,939	1,644	1,757	22,632	2
2,549	2,761	3,171	3,024	2,967	3,718	4,727	37,924	3
2,226	2,236	2,420	2,233	2,434	2,596	3,992	31,267	4
4,065	3,892	3,881	3,837	4,017	4,088	5,224	48,554	5
1,520	1,540	1,967	1,797	1,894	2,137	2,729	21,075	6
2,543	2,850	3,338	3,083	3,507	3,112	3,578	34,951	7
382	372	497	519	519	513	691	5,981	8
2,343	2,730	3,182	3,047	3,090	2,453	3,007	31,493	9
3,586	4,139	5,463	4,860	4,572	3,865	4,517	48,470	10
2,391	3,274	3,617	3,137	2,752	2,294	3,070	31,622	11
2,222	2,411	2,999	2,157	2,113	1,781	3,157	27,722	12
3,057	3,193	3,078	3,086	3,265	4,204	4,930	41,838	13
6,769	8,115	6,667	4,780	4,233	4,136	5,112	64,703	14
2,428	2,503	3,126	2,638	2,571	3,035	3,883	34,113	15
266	309	228	229	205	187	269	2,760	16
3,574	3,578	3,496	3,306	3,529	4,225	5,755	47,545	17
3,027	2,911	2,992	2,889	2,123	3,741	4,760	39,603	18
4,153	4,206	4,034	3,692	3,818	4,633	5,485	51,272	19
3,683	3,598	4,237	4,127	4,218	4,766	6,054	50,771	20
2,444	2,985	2,578	2,117	2,053	1,989	2,462	28,459	21
3,258	3,714	3,724	3,575	3,901	5,129	5,911	50,748	22
3,244	3,292	3,322	3,268	3,569	4,448	6,433	46,039	23
3,003	3,216	2,904	2,798	3,385	4,090	4,749	40,862	24
5,788	6,530	7,229	7,252	7,459	7,539	9,119	82,027	25
72,282	78,326	82,420	75,259	76,956	82,368	104,099	945,210	
21.85	22.92	24.12	22.75	22.52	24.90	30.46	23.49	

to the number of days in each month.

No. III.—Deaths registered in Districts, exclusive of Municipalities and in the

Serial number.	Municipalities.	January.	February.	March.	April.	May.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>Anantapur District.</i>						
1	Anantapur	28	27	14	20	19
2	Hindupur	29	24	21	22	40
3	Tadpatri	20	22	19	23	15
<i>Bellary District.</i>						
4	Bellary	172	159	161	140	139
5	Adoni	59	56	60	59	57
6	Hospet	72	46	54	60	54
<i>Chingleput District.</i>						
7	Conjeeveram	181	138	131	139	114
8	Saidapet	68	42	49	45	68
9	Chingleput	53	48	34	30	40
<i>Chittoor District.</i>						
10	Chittoor	37	40	42	42	66
11	Tirupati	67	41	48	33	67
<i>Coimbatore District.</i>						
12	Coimbatore	238	168	182	229	225
13	Erode	31	100	51	55	55
14	Pollachi	49	38	38	44	54
15	Dharapuram	52	37	43	36	34
16	Tiruppur	60	48	55	55	40
17	Udamalpet	20	28	18	30	19
<i>Cuddapah District.</i>						
18	Cuddapah	71	38	31	36	49
19	Proddatur	33	25	30	26	29
<i>Giddavari East District.</i>						
20	Cocanada	175	144	143	173	168
21	Rajahmundry	140	128	140	156	161
22	Peddapuram	32	30	26	22	23
<i>Giddavari West District.</i>						
23	Ellore	97	77	113	99	96
24	Palacole	30	20	23	36	28
<i>Guntur District.</i>						
25	Guntur	108	122	111	122	153
26	Tenali	61	44	66	43	50

Municipalities of the Madras Presidency during each month of the year 1937—cont.

June.	July.	August.	September.	October.	November.	December.	Total.	Serial number.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
28	21	30	27	33	24	38	309	1
13	16	23	24	22	25	33	292	2
15	16	24	28	22	16	22	242	3
137	99	148	131	104	114	122	1,616	4
59	187	98	66	52	51	66	869	5
61	67	35	33	32	38	45	597	6
139	116	131	148	146	139	177	1,729	7
51	80	69	65	72	81	74	771	8
36	38	41	33	29	53	50	485	9
55	37	51	39	47	51	47	554	10
32	38	48	37	36	49	43	529	11
184	202	181	191	206	255	335	2,596	12
50	60	67	53	40	47	79	718	13
45	45	42	61	59	63	83	621	14
34	33	41	33	32	38	57	470	15
53	61	45	56	54	73	69	669	16
19	31	28	29	27	40	45	334	17
42	45	61	47	39	58	78	595	18
30	27	31	35	31	29	60	386	19
195	170	176	185	168	174	149	2,010	20
146	145	210	191	161	140	149	1,867	21
18	29	39	40	36	38	24	362	22
111	99	102	97	105	113	116	1,225	23
24	27	31	36	36	40	32	363	24
155	150	570	184	170	140	157	2,142	25
53	60	78	68	55	56	56	684	26

No. III.—Deaths registered in Districts, exclusive of Municipalities and in the

Serial number.	Municipalities.	January.	February.	March.	April.	May.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>Guntūr District—cont.</i>						
27	Chirala	40	35	40	42	28
28	Ongole	65	47	57	42	88
29	Narasaraopet	29	27	30	27	27
<i>Kistna District.</i>						
30	Bezawada	185	134	172	176	160
31	Masulipatam	159	186	122	135	115
32	Gudivada	43	40	25	47	35
<i>Kurnool District.</i>						
33	Kurnool	84	64	63	69	66
34	Nandyal	48	29	29	28	31
<i>Madras.</i>						
35	Madras	2,313	1,845	1,836	1,738	1,959
<i>Madura District.</i>						
36	Madura	719	582	553	475	524
37	Dindigul	122	100	91	84	101
38	Bodinayakanur.	43	46	40	48	38
39	Periyakulam	56	44	56	41	39
40	Palni	55	40	39	50	46
41	Kodaikanal	13	9	9	10	18
<i>Malabar District.</i>						
42	Calicut	213	156	226	212	295
43	Palghat	77	90	105	106	121
44	Cannanore	70	39	49	56	69
45	Tellicherry	50	46	72	59	75
46	Cochin	63	47	53	40	45
<i>Nellore District.</i>						
47	Nellore	233	185	167	151	149
<i>Nilgiris District.</i>						
48	Ootacamund	62	41	53	59	42
49	Coonoor	21	20	20	29	35
<i>North Arcot District.</i>						
50	Vellore	196	192	137	97	193
51	Tiruvannamalai	166	100	53	52	52
52	Gudiyattam	56	67	47	36	71
53	Vaniyambadi	57	42	22	35	44
54	Tiruppattur	52	39	29	44	28
55	Walajapet	25	23	19	17	23

Municipalities of the Madras Presidency during each month of the year 1937—cont.

June.	July.	August.	September.	October.	November.	December.	Total.	Serial number.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
38	30	38	37	40	31	41	440	27
44	50	76	59	49	58	56	641	28
28	30	37	28	37	30	30	360	29
188	155	231	215	220	148	147	2,111	30
144	142	186	139	141	125	106	1,650	31
39	55	56	50	48	48	48	529	32
74	61	69	68	75	70	69	831	33
31	33	43	41	46	21	36	416	34
1,822	1,886	2,093	2,008	2,008	2,613	3,287	25,403	35
481	429	397	411	468	633	740	6,412	36
79	75	58	106	87	116	160	1,173	37
48	55	61	47	40	55	89	610	38
61	52	52	57	55	59	88	660	39
46	42	32	29	40	63	75	557	40
13	13	4	15	16	14	11	145	41
277	348	292	260	191	193	166	2,829	42
101	120	127	97	77	81	116	1,218	43
54	73	81	65	65	61	69	761	44
58	74	97	50	68	45	59	753	45
46	68	54	52	52	51	45	616	46
143	125	167	165	137	165	181	1,968	47
55	46	74	57	60	61	50	660	48
29	26	30	22	17	35	48	332	49
136	155	118	108	113	152	195	1,762	50
54	66	63	70	81	73	101	981	51
69	44	47	36	42	63	86	664	52
31	37	38	34	28	28	40	436	53
30	30	21	23	25	24	29	374	54
15	19	14	21	17	19	22	234	55

No. III.—Deaths registered in Districts, exclusive of Municipalities, and in the

Serial number.	Municipalities.	January.	February.	March.	April.	May.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>Ramnad District.</i>						
56	Virudhunagar	95	80	67	82	90
57	Srivilliputtur	62	46	58	45	48
58	Karaikudi	45	51	30	34	37
59	Sivakasi	13	6	7	8	8
60	Devakottai	29	41	23	19	37
<i>Salem District.</i>						
61	Salem	262	224	246	248	213
<i>South Arcot District.</i>						
62	Cuddalore	188	139	103	93	109
63	Chidambaram	83	74	62	47	56
64	Villupuram	32	21	29	30	29
<i>South Kanara District.</i>						
65	Mangalore	145	115	100	122	95
66	Udipi	40	33	36	22	31
<i>Tanjore District.</i>						
67	Tanjore	236	197	159	183	195
68	Kumbakonam	240	181	130	133	122
69	Negapatam	129	99	117	83	106
70	Mayavaram	98	67	61	51	64
71	Mannargudi	55	58	48	37	35
72	Tiruvavur	73	43	29	41	39
<i>Tinnevely District.</i>						
73	Tuticorin	258	165	143	121	139
74	Tinnevely	162	111	97	115	117
75	Palamcottah	41	54	53	43	48
<i>Trichinopoly District.</i>						
76	Trichinopoly	561	381	330	332	318
77	Srirangam	124	89	56	75	77
78	Karur	58	34	38	21	46
<i>Vizagapatam District.</i>						
79	Vizagapatam	177	115	143	141	183
80	Vizianagram	129	98	104	88	99
81	Anakapalle	55	49	72	49	71
82	Chicacole	42	24	20	37	31
83	Bimlipatam	20	21	24	21	31
Total for municipalities ...		10,780	8,578	8,802	8,095	8,719
* Ratio per mille of population for municipalities.		34.29	30.21	26.41	26.61	27.74
Total for the province ...		107,785	77,006	76,060	74,691	82,432
* Ratio per mille of population for the province.		28.88	22.84	20.38	20.67	22.08

* The ratios were calculated with reference

Municipalities of the Madras Presidency during each month of the year 1937—cont.

June.	July.	August.	September.	October.	November.	December.	Total.	Serial number.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
78	78	70	50	70	119	123	997	56
46	43	54	49	67	76	98	694	57
43	31	30	34	26	30	49	440	58
22	25	24	18	33	30	40	229	59
24	45	37	32	28	30	34	379	60
186	214	195	204	172	206	223	2,598	61
94	109	90	90	107	119	169	1,410	62
35	35	49	34	51	67	85	678	63
35	25	26	25	29	67	48	396	64
118	143	170	145	143	104	115	1,515	65
15	35	32	24	28	23	35	354	66
167	144	146	146	153	225	218	2,169	67
94	131	110	130	148	198	221	1,838	68
122	67	105	90	95	126	154	1,293	69
43	62	60	58	59	98	107	828	70
34	39	46	41	35	72	64	564	71
42	41	34	34	38	58	37	509	72
146	104	97	118	150	181	236	1,858	73
98	116	99	111	92	140	160	1,418	74
89	38	48	88	40	66	86	594	75
287	278	253	252	289	400	455	4,136	76
47	49	54	37	72	48	73	801	77
39	45	27	48	44	65	49	514	78
141	162	162	170	190	149	175	1,858	79
102	120	113	112	86	100	134	1,285	80
56	45	55	65	62	72	67	718	81
26	41	32	36	36	33	31	389	82
24	27	12	22	20	17	23	262	83
8,193	8,525	9,285	8,505	8,509	10,024	11,705	109,220	
26.93	27.12	29.54	27.96	27.07	32.95	37.28	29.51	
80,475	86,851	91,705	83,764	85,465	92,392	115,804	1,054,430	
22.28	23.27	24.57	23.19	22.90	25.57	31.02	23.89	

to the number of days in each month.

No. IV.—Deaths registered according to Age in the Districts exclusive of the Madras Presidency during the year 1937 (compiled with

Serial number.	Districts exclusive of municipalities and rural towns.	Not exceeding one month.						Total of columns 5 and 8.
		Males.			Females.			
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Anantapur	1,200	704	1,904	993	600	1,593	3,497
2	Bellary	1,010	574	1,584	747	485	1,232	2,816
3	Chingleput	1,564	1,034	2,598	1,265	894	2,159	4,757
4	Chittoor	1,652	777	2,429	1,278	628	1,906	4,335
5	Coimbatore	3,642	1,486	5,128	3,021	1,220	4,241	9,419
6	Cuddapah	790	473	1,263	678	406	1,084	2,347
7	Godavari, { Plains	2,494	606	3,100	1,858	599	2,457	5,647
	East, { Agency	270	115	385	200	102	302	687
8	Godavari, West	2,177	745	2,922	1,618	601	2,219	5,141
9	Guntur	3,085	1,402	4,487	2,475	1,147	3,622	8,039
10	Kistna	2,641	1,231	3,872	2,106	1,060	3,166	7,038
11	Kurnool	1,264	861	2,125	1,039	723	1,762	3,887
12	Madura	2,129	1,201	3,330	1,703	950	2,653	5,983
13	Malabar	3,582	1,688	5,270	2,745	1,493	4,238	9,478
14	Nellore	1,616	827	2,442	1,270	685	1,955	4,398
15	Nilgiris, The... ..	78	51	129	70	39	109	238
16	North Arcot	1,910	1,364	3,274	1,541	1,027	2,568	5,842
17	Ramnad	1,190	823	2,013	865	664	1,529	3,542
18	Salem	3,059	1,425	4,484	2,627	1,263	3,890	8,374
19	South Arcot	1,047	1,204	2,251	1,678	1,021	2,699	5,750
20	South Kanara	1,212	598	1,810	901	510	1,411	3,221
21	Tanjore	2,324	1,083	3,407	1,831	959	2,790	6,197
22	Tinnevely	2,275	1,458	3,733	1,729	1,157	2,886	6,619
23	Trichinopoly	1,993	1,136	3,129	1,636	923	2,459	5,588
24	Vizagapatam	3,702	1,928	5,630	2,816	1,631	4,447	10,077
	Total of districts exclusive of Municipalities and rural towns	48,336	24,884	73,220	38,490	20,757	59,247	132,967
	Total population according to the census of 1931	...	...	...	...	...	...	...
	Ratio per 1,000 of births for age periods under 1 year and per 1,000 of population for age periods 1 year and above	65.68	33.47	99.15	54.13	29.19	83.32	91.41

Municipalities and rural towns and in the Municipalities and rural towns reference to G.O. Ms. No. 602, P.H., dated 30th March 1931).

Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			One and under five years.		Serial number.
Males.	Females.	Total.	Males.	Fe- males.	Total.	Males columns (6), (10) and (13).	Females columns (8), (11) and (14).	Total.	Males.	Females.	
952	829	1,781	787	717	1,504	3,643	3,139	6,782	1,789	1,905	
935	732	1,717	763	646	1,409	3,282	2,660	5,942	2,052	2,101	
1,300	1,186	2,486	1,181	1,164	2,345	5,079	4,509	9,588	2,525	2,511	
1,018	911	1,959	980	904	1,884	4,427	3,751	8,178	2,300	2,418	
1,241	1,060	2,301	1,225	1,072	2,297	7,614	6,373	14,017	3,327	3,408	
702	641	1,343	814	739	1,553	2,778	2,464	5,243	1,816	1,721	
1,568	1,239	2,807	1,342	1,113	2,455	6,100	4,879	10,979	2,041	2,031	
276	219	525	194	191	385	855	742	1,597	495	486	
1,576	1,289	2,865	1,353	1,285	2,638	5,851	4,773	10,624	2,168	2,094	
1,902	1,581	3,483	1,502	1,302	2,804	7,871	6,505	14,376	3,890	3,871	
1,019	916	1,935	1,179	1,102	2,281	6,070	5,184	11,254	2,317	2,163	
858	790	1,648	855	809	1,664	3,838	3,361	7,199	2,909	2,998	
973	833	1,806	1,209	1,102	2,311	5,512	4,688	10,100	3,340	3,470	
1,681	1,487	3,168	1,840	1,683	3,523	8,791	7,378	16,169	5,512	5,778	
845	732	1,577	1,172	1,071	2,243	4,460	3,768	8,218	2,886	2,701	
78	67	145	86	74	160	293	250	543	290	311	
1,500	1,302	2,802	1,606	1,504	3,110	6,380	5,374	11,754	4,729	4,979	
754	683	1,436	917	863	1,780	3,684	3,074	6,758	3,057	3,150	
1,394	1,216	2,610	1,333	1,175	2,507	7,210	6,281	13,491	3,695	3,839	
1,412	1,292	2,704	1,633	1,473	3,106	6,196	5,364	11,560	4,463	4,244	
887	801	1,688	790	801	1,591	3,487	3,013	6,500	1,977	2,134	
1,296	1,110	2,406	1,058	964	2,022	5,761	4,864	10,625	2,855	2,614	
1,086	975	2,061	1,087	1,007	2,094	5,906	4,858	10,774	3,624	3,706	
864	776	1,640	1,119	1,084	2,203	5,112	4,319	9,431	2,863	2,919	
3,449	2,989	6,438	3,497	3,049	6,546	12,576	10,485	23,061	5,860	5,896	
29,566	25,765	55,331	25,521	26,944	56,465	132,907	111,956	244,763	72,830	73,448	
...	...	...	...	...	...	517,243	538,170	1,055,413	2,161,403	2,241,395	
39.76	36.34	38.04	39.70	37.89	38.82	178.61	157.45	168.27	83.7	82.77	

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities and rural towns—cont.

Serial Number.	Districts exclusive of Municipalities and rural towns—cont.	Five and under ten years.		Ten and under 15 years.		15 and under 20 years.		20 and under 30 years.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
		(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
1	Anantapur ...	552	595	277	260	171	404	444	956
2	Bellary ...	655	607	244	231	224	268	579	919
3	Chingleput ...	760	768	455	455	373	576	850	1,348
4	Chittoor ...	614	701	348	362	300	461	790	1,243
5	Coimbatore ...	1,100	1,032	568	575	692	846	1,398	1,896
6	Cuddapah ...	483	500	187	238	201	359	414	832
7	Go. lavari, Plains	693	687	437	344	335	585	782	1,415
8	East. Agency	190	180	110	97	104	98	236	291
9	Godavari, West	618	674	333	356	260	499	684	1,150
10	Guntur ...	976	1,013	450	480	464	710	1,093	1,754
11	Kistna ...	654	686	345	412	274	572	684	1,259
12	Kurnool ...	1,000	968	419	403	274	387	618	1,118
13	Madura ...	854	856	421	487	483	534	1,063	1,373
14	Malabar ...	1,546	1,576	695	674	693	839	1,920	2,235
15	Nellore ...	771	682	615	761	458	505	710	867
16	Nilgiris, The	88	53	39	34	62	38	113	135
17	North Arcot	1,052	1,122	429	437	503	749	933	1,478
18	Ramnad ...	857	814	337	343	366	506	951	1,461
19	Salem ...	1,205	1,276	680	671	720	840	1,423	2,091
20	South Arcot	1,256	1,168	493	446	595	943	1,208	2,041
21	South Kanara	644	600	309	300	258	440	837	1,143
22	Tanjore ...	1,002	950	514	510	647	994	1,347	2,466
23	Tinnevely ...	878	852	347	358	419	553	797	1,331
24	Trichinopoly	789	675	701	787	588	919	975	1,345
	Vizagapatam	1,748	1,641	991	888	881	1,130	2,029	2,959
	Total for districts exclusive of municipalities and rural towns	20,985	20,704	10,746	10,907	10,463	14,750	22,848	35,143
	Total population according to the census of 1931	2,440,999	2,408,933	3,244,668	2,146,023	1,628,009	1,751,264	3,127,530	3,613,558
	Ratio per 1,000 of births for age periods under 1 year and per 1,000 of population and for age periods 1 year and above.	8.60	8.59	4.79	5.08	6.43	8.42	7.31	9.73

palities and rural towns and in the Municipalities and rural towns of the Madras G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

Serial number.	30 and under 40 years.		40 and under 50 years.		50 and under 60 years.		60 years and upwards.		Total of all ages.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1	581	734	761	594	715	566	1,981	1,723	10,914	10,878
2	789	849	857	643	736	579	1,302	1,283	10,720	10,146
3	876	1,072	1,194	918	1,211	1,031	3,852	3,373	17,281	16,561
4	888	1,007	1,162	962	1,265	1,001	3,411	3,110	16,445	15,016
5	1,504	1,582	1,457	1,348	1,438	1,240	4,768	4,794	23,896	23,094
6	671	676	778	597	896	684	2,014	1,856	10,139	9,927
7	848	1,012	1,002	771	1,014	812	3,259	3,840	16,511	16,376
8	261	253	253	179	225	154	370	391	3,102	2,879
9	678	795	810	607	785	637	2,570	2,890	14,757	14,465
10	1,083	1,196	1,232	943	1,376	1,007	4,691	4,434	23,106	21,918
11	699	899	713	585	823	603	2,774	2,728	15,353	15,121
12	903	893	988	774	952	822	2,018	2,046	13,357	13,765
13	1,274	1,245	1,443	1,089	1,357	1,129	3,469	3,557	19,316	18,328
14	2,199	2,235	2,458	1,829	2,456	1,795	6,042	7,038	32,362	31,367
15	1,129	1,263	985	782	1,055	824	3,758	3,503	16,857	15,646
16	135	104	86	52	71	58	144	128	1,311	1,193
17	1,028	1,134	1,185	952	1,292	985	4,377	4,368	21,908	21,578
18	1,151	1,419	1,463	1,322	1,433	1,461	3,341	3,617	16,639	17,167
19	1,676	1,799	1,939	1,476	1,658	1,444	4,877	4,793	24,883	24,560
20	1,562	1,616	1,867	1,481	2,029	1,822	4,640	4,399	24,311	23,542
21	1,170	1,130	1,326	942	1,273	1,040	2,597	2,967	13,978	13,699
22	1,711	2,194	2,032	1,325	2,157	1,949	5,181	6,658	23,187	24,054
23	955	1,127	1,132	866	1,340	1,185	3,693	3,711	19,091	18,562
24	1,406	1,730	1,330	986	1,336	1,129	4,321	4,614	19,421	19,823
	2,356	2,599	3,082	2,286	3,150	2,793	6,577	8,113	39,250	38,790
	27,513	30,563	31,545	24,809	32,045	26,750	85,813	88,920	4,47,595	437,950
	2,657,907	2,648,529	1,861,167	1,759,856	1,128,270	1,121,474	967,071	902,298	18,634,257	19,131,500
	10.36	11.54	16.95	14.10	28.40	23.55	98.97	98.55	24.02	22.89

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities during the year 1936 (compiled with reference to

Serial number.	Municipalities and rural towns.	Not exceeding one month.							Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.		
		Males.			Females.			Total of cols. (5) and (8).	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Anantapur District.																	
1	Anantapur ...	5	1	6	6	2	8	14	14	15	29	8	4	12	28	27	55
2	Hindupur ...	14	10	24	6	11	17	41	11	9	20	17	6	23	52	32	84
3	Talpatiri ...	3	3	6	4	3	7	13	14	15	29	9	8	17	29	30	59
4	Guntakal ...	10	8	18	8	4	12	30	15	14	29	18	12	30	51	34	85
5	Uravakonda ...	4	4	8	3	5	8	16	11	12	23	5	7	12	24	27	51
6	Gooty ...	6	1	7	2	4	6	13	8	6	14	5	5	10	20	17	37
7	Kadiri ...	15	6	21	2	5	7	23	9	14	23	9	5	14	39	26	65
8	Dharmavaram ...	6	3	9	12	6	18	27	10	6	16	4	7	11	23	31	54
9	Penukonda ...	2	3	5	1	2	3	8	4	7	11	2	6	8	11	16	27
10	Pamidi ...	...	...	...	...	1	1	1	5	4	9	7	4	11	12	9	21
Bellary District.																	
11	Bellary ...	42	39	81	27	27	54	135	86	77	163	67	58	125	234	189	423
12	Adoni ...	30	8	38	26	8	34	72	25	19	44	18	20	38	81	73	154
13	Hospet ...	19	14	33	16	3	19	52	26	24	50	23	13	36	82	56	138
14	Riyadruz ...	7	9	16	8	3	11	27	21	13	34	14	14	28	51	38	89
15	Yemmiganur ...	26	9	35	25	7	32	67	12	11	23	18	14	32	65	57	122
16	Kosigi ...	26	12	38	21	8	29	67	16	16	32	12	18	30	66	63	129
17	Harpanahalli ...	...	7	7	2	2	4	11	4	5	9	12	7	19	23	16	39
18	Kanupli ...	8	2	10	7	4	11	31	8	5	13	7	9	16	25	25	50
19	Kottura ...	6	5	11	10	4	14	25	10	5	15	5	2	7	26	21	47
20	Siruguppa ...	5	1	6	3	...	3	9	5	7	12	1	1	2	12	11	23
Chingleput District.																	
21	Conjeevaram ...	89	34	123	55	25	80	203	56	39	95	61	45	106	241	164	404
22	Saidapet ...	23	24	47	14	8	22	69	34	38	72	34	28	62	115	89	203
23	Chingleput ...	19	7	26	9	7	16	42	16	16	32	18	24	42	69	56	116
24	Sembiam ...	23	14	37	20	17	37	74	33	29	62	30	38	68	100	104	204
25	Poonamallee ...	18	10	28	20	8	28	56	31	25	56	17	12	29	76	65	141
26	Uttaramerur ...	15	16	31	8	19	27	58	12	13	25	10	13	23	53	53	106
27	Pallavaram ...	9	9	18	13	5	17	35	9	12	21	12	6	18	39	35	74
28	Trivottiyur ...	13	7	20	9	5	14	34	14	7	21	11	13	24	45	34	79
29	Tiravallur ...	15	9	24	5	5	10	34	11	10	21	8	16	24	43	36	79
30	Alandur ...	12	3	15	12	9	21	34	10	8	18	9	13	22	34	42	76
31	Tirukkalkundrum ...	12	9	21	7	6	13	34	10	2	12	15	11	26	46	26	72
32	St. Thomas' Mount ...	4	...	4	5	3	8	12	6	4	10	2	3	5	12	15	27
33	Madurantakam ...	13	13	26	10	2	12	38	11	4	15	2	7	9	39	23	62
34	Sriperumbudur ...	11	5	16	7	3	10	26	5	5	10	2	7	9	23	22	45
35	Cheyur ...	5	7	12	9	3	12	24	11	5	16	9	7	16	32	24	56
36	Arni ...	7	3	10	1	1	2	12	7	7	14	5	5	10	22	14	36
Chittoor District.																	
37	Chittoor ...	26	6	32	19	6	25	57	20	8	28	21	19	40	73	52	125
38	Tirupati ...	12	6	18	16	12	27	45	21	18	39	12	18	30	51	63	114
39	Kalahasti ...	8	2	10	4	1	5	15	9	4	13	5	5	10	24	14	38
40	Madanapalle ...	10	7	17	11	3	14	31	5	5	10	9	7	16	31	26	57
41	Panganur ...	13	3	16	12	5	17	33	5	6	11	5	5	10	26	28	54
42	Tiruttani ...	8	3	11	4	4	8	19	8	5	13	10	8	18	29	21	50
Coimbatore District.																	
43	Coimbatore ...	154	52	206	92	48	140	346	97	64	161	76	77	153	379	281	660
44	Erode ...	35	14	49	25	7	32	81	24	20	44	11	15	26	84	67	151
45	Pollachi ...	35	13	48	30	13	43	91	17	12	29	13	14	27	78	69	147
46	Dharmapuram ...	24	12	36	13	4	17	53	15	8	23	17	11	28	68	36	104
47	Tiruppur ...	56	14	70	34	16	50	120	18	22	40	25	13	38	113	85	198
48	Udamalpet ...	23	11	34	20	9	29	63	14	6	20	12	2	14	60	37	97
49	Gobichettipalayam ...	18	2	20	11	9	20	40	7	8	15	6	12	18	34	40	73
50	Kotlegal ...	11	6	17	11	4	15	33	8	9	17	7	6	13	32	30	62
51	Kurichi ...	18	8	26	10	7	17	43	4	3	7	8	5	13	38	28	64
52	Mettupalayam ...	15	6	21	19	8	27	48	4	3	7	6	8	22	39	38	77
53	Kottur ...	28	5	33	19	2	21	54	4	3	7	6	6	12	43	30	73
54	P. Nadam ...	16	9	25	10	2	13	37	2	6	8	4	1	5	31	19	50
55	Bhavani ...	16	2	18	13	4	17	35	8	8	16	10	8	18	36	33	69

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
20	21	5	6	2	8	4	8	14	20	20	17	23	5	17	11	39	14	172	137	1
13	28	3	5	2	1	1	3	7	28	10	16	8	7	8	8	30	29	137	155	2
15	23	6	4	3	7	...	1	10	16	14	9	8	3	9	3	27	23	121	121	3
46	25	4	7	2	2	2	3	7	7	7	12	10	1	9	4	34	20	173	118	4
32	26	7	2	3	3	3	6	6	13	3	6	14	8	6	3	23	34	120	128	5
10	15	4	3	3	6	4	4	7	7	8	7	10	7	8	5	16	23	87	94	6
80	27	1	1	3	3	4	2	5	7	8	10	4	3	6	6	14	15	110	107	7
18	20	1	0	...	4	4	4	5	13	11	11	7	5	8	5	25	24	102	126	8
5	4	2	3	1	1	1	3	2	7	1	6	3	2	2	1	6	16	36	58	9
12	13	...	2	2	3	...	1	...	5	2	3	3	1	2	...	6	8	39	45	10
163	163	22	23	10	21	10	26	54	84	62	59	67	34	48	19	159	170	829	788	11
75	70	30	26	17	15	4	17	21	69	33	44	36	27	30	21	91	89	418	451	12
62	61	7	13	7	6	4	12	16	23	24	31	35	17	16	8	65	52	318	279	13
32	24	6	3	2	1	4	13	6	21	4	8	13	7	9	7	22	21	149	143	14
72	88	26	24	12	7	2	3	8	14	6	23	15	8	17	10	42	32	265	266	15
44	38	10	3	1	...	2	6	8	9	1	15	7	9	13	4	14	15	166	162	16
18	5	4	2	2	2	5	2	3	6	5	3	7	8	5	3	20	12	92	59	17
21	15	4	7	...	4	1	1	8	11	8	6	14	3	7	18	17	104	96	18	
11	9	3	...	2	2	2	4	8	10	16	8	8	4	6	6	8	8	80	72	19
7	9	6	3	...	...	1	3	4	4	6	...	4	2	5	8	10	9	55	49	20
101	105	36	33	17	12	20	36	59	76	54	59	76	62	87	53	232	207	922	807	21
78	84	15	14	4	7	10	12	17	25	24	33	29	16	24	17	83	88	399	374	22
38	34	14	8	6	6	10	8	16	29	10	25	26	17	14	11	64	39	248	237	23
83	100	32	33	4	22	19	29	40	54	37	42	55	34	37	45	101	98	623	561	24
36	45	17	14	7	6	9	14	12	23	21	22	20	16	19	20	67	63	284	288	25
40	29	14	7	1	2	5	7	8	6	3	7	11	7	9	2	35	32	179	152	26
19	16	2	4	3	5	3	7	17	11	7	9	14	8	16	4	30	30	151	127	27
15	20	2	3	6	10	2	7	13	22	15	15	13	11	23	16	31	29	165	164	28
21	13	6	8	4	3	2	6	5	11	8	12	13	9	15	13	27	27	141	138	29
16	22	5	7	1	3	4	4	10	4	1	4	12	4	8	4	32	26	123	114	30
12	11	2	2	1	2	4	4	5	8	8	8	8	7	7	7	17	14	110	60	31
2	4	...	3	1	...	1	7	1	1	...	1	2	2	6	...	10	9	34	38	32
20	25	3	3	3	3	6	1	7	15	7	7	9	10	4	1	27	14	125	108	33
15	6	3	4	...	2	1	2	6	7	6	9	7	5	9	7	23	22	93	86	34
14	14	3	1	3	3	1	1	3	7	2	5	9	6	12	8	14	12	96	79	35
10	10	7	4	6	7	1	5	4	7	3	12	4	3	8	4	14	25	74	91	36
31	43	9	10	6	3	8	17	17	41	24	21	27	16	27	18	57	59	279	275	37
4	42	6	3	3	6	6	9	23	24	22	22	23	15	32	12	65	71	262	267	38
9	9	7	12	...	5	6	9	15	12	15	10	19	14	13	7	28	43	135	135	39
10	13	8	7	3	1	4	6	8	10	6	11	3	5	7	2	15	13	95	94	40
12	10	4	2	1	1	2	5	5	5	8	5	7	4	7	9	12	13	84	79	41
16	13	5	1	1	3	1	4	6	5	5	6	9	5	8	6	19	22	90	86	42
219	195	51	53	20	33	45	63	90	145	112	92	127	79	77	238	244	1,358	1,245	43	43
53	50	15	11	3	13	13	14	26	51	29	32	42	23	30	15	67	80	367	351	44
42	53	13	8	11	6	10	14	36	36	35	30	29	22	19	15	35	60	308	313	45
41	47	6	5	2	5	4	4	15	26	18	10	16	14	21	12	53	65	246	224	46
54	49	12	9	13	13	9	75	24	38	20	32	18	17	15	17	46	67	327	342	47
31	23	4	3	3	6	3	6	7	14	14	17	10	13	14	8	28	33	177	157	48
28	21	7	9	...	3	6	9	14	11	13	15	7	7	6	11	28	31	149	157	49
26	28	14	19	8	7	5	9	15	16	18	18	24	14	15	10	46	44	207	195	50
10	10	2	4	5	2	...	...	4	5	8	9	8	7	6	3	25	23	106	94	51
86	32	7	9	3	2	14	13	28	15	24	13	18	12	19	13	24	23	211	175	52
12	10	6	2	1	2	4	6	7	12	8	7	7	9	4	7	15	12	107	97	53
5	9	2	1	2	2	1	3	6	6	7	1	1	3	1	1	12	10	71	55	54
8	16	8	4	3	2	5	14	10	11	6	10	9	5	5	4	27	25	117	124	55

Serial number.	Municipalities and rural towns.	Not exceeding one month.						Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			
		Males.			Females.			(5) Total of cols. (3) and (8).	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Cuddapah District.</i>																	
56	Cuddapah	24	16	40	19	7	26	66	16	22	38	20	17	37	76	65	141
57	Prodatur	32	7	39	13	2	15	54	13	8	16	10	8	18	62	26	88
58	Jammalamadugu ...	11	9	20	8	5	13	33	19	16	35	15	14	29	54	43	97
59	Rayachoti	16	6	22	12	2	14	36	5	5	10	7	12	19	34	31	65
60	Vemavalli	13	6	19	10	7	17	36	9	8	17	6	6	12	31	65	96
61	Kamalapuram	2	4	6	5	3	8	14	6	3	9	10	6	16	22	17	39
62	Badvel	5	2	7	4	2	6	13	3	2	5	2	5	7	12	13	25
<i>Gōdāvari, East District.</i>																	
63	Cocanada	58	19	77	56	17	73	150	151	110	261	86	65	151	311	218	529
64	Rajahmundry	73	27	100	37	26	63	163	70	122	298	80	90	179	365	275	640
65	Poddapuram	21	7	28	7	1	8	36	24	20	44	15	11	26	67	39	106
66	Samalkot	27	5	32	23	5	28	60	27	20	47	15	14	29	74	62	136
67	Pithapuram	8	5	13	8	3	9	22	16	16	32	16	17	33	45	42	87
68	Amalapuram	23	8	30	14	...	14	44	20	13	39	15	9	24	65	42	107
69	Tuni	8	4	12	5	...	5	17	21	10	31	10	9	19	43	24	67
70	Mundapeta	24	8	32	2	3	29	61	12	13	25	5	7	12	49	49	98
71	Dowlaiswaram	5	2	7	3	2	5	12	12	17	29	5	4	9	24	26	50
72	Ramanahundrapuram.	9	3	12	11	2	13	25	17	13	30	10	7	17	39	35	74
73	Bikkavolu	4	4	8	5	1	6	14	4	5	9	6	4	10	18	15	33
<i>Gōdāvari, West District.</i>																	
74	Ellore	38	9	47	30	7	37	84	48	31	79	49	37	86	144	105	249
75	Palacole	31	1	32	23	1	24	56	22	13	35	9	14	23	63	51	114
76	Pennakonda	41	9	50	33	7	40	90	19	19	38	23	20	49	92	85	177
77	Narasapur	11	7	18	3	2	5	23	8	7	15	10	11	21	36	23	59
78	Attili	41	11	52	21	6	27	79	20	17	37	21	13	34	93	57	150
79	Tannuku	23	5	29	14	6	20	48	11	13	24	13</					

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
34	30	14	7	8	5	8	11	28	31	32	26	33	16	27	14	61	69	321	274	56
42	23	9	9	1	8	3	14	20	15	19	8	15	4	14	52	47	296	160	57	
37	36	4	8	10	10	9	12	12	21	13	13	21	11	15	25	20	210	180	58	
9	17	2	1	2	3	3	5	3	11	3	2	4	2	2	25	23	115	101	59	
7	9	3	3	1	3	2	6	4	7	7	4	9	6	4	5	14	72	91	60	
12	13	2	3	1	2	2	4	1	2	1	5	3	2	5	13	24	57	76	61	
	6	2	1	1	2	2	2	3	8	2	1	2	1	4	10	20	50	67	62	
119	105	27	34	17	15	18	21	70	99	81	65	90	43	89	38	240	280	1,065	948	63
86	79	17	19	13	9	32	66	67	89	86	54	75	47	83	40	160	207	984	885	64
21	13	8	6	5	5	9	8	11	9	15	15	14	7	12	7	43	48	205	157	65
18	31	5	7	5	6	4	3	12	12	13	10	11	5	11	12	48	56	201	193	66
15	9	7	6	6	7	2	6	10	20	11	11	7	6	14	6	30	29	147	141	67
22	22	12	6	3	5	9	16	19	21	14	14	12	10	16	16	35	34	207	186	68
9	14	5	7	2	4	2	7	11	10	9	4	11	5	14	7	29	30	35	112	69
8	12	1	5	5	2	4	3	8	13	10	5	11	7	7	11	28	24	131	131	70
13	7	1	1	4	3	1	7	6	6	3	3	4	3	5	2	16	16	70	71	71
8	8	3	6	3	1	10	12	13	5	7	5	8	6	11	6	14	17	121	99	72
	4	4	...	3	3	2	1	2	3	5	5	7	5	8	4	10	15	62	55	73
92	58	19	20	17	7	8	15	67	81	51	61	79	33	44	22	185	117	706	519	74
19	27	5	6	3	6	3	5	6	20	14	6	13	9	14	9	42	42	182	181	75
16	37	6	7	2	2	2	10	9	15	11	10	14	15	13	17	37	50	200	248	76
23	18	16	14	7	10	6	16	16	6	19	15	18	12	9	4	54	62	204	180	77
33	28	7	6	7	4	2	7	8	10	10	10	10	7	10	4	37	44	217	175	78
27	25	10	5	3	2	3	5	8	18	9	10	13	8	19	16	24	29	1		

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities during the year 1937 (compiled with reference to

Serial number.	Municipalities and rural towns.	Not exceeding one month.						Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			
		Males.			Females.			Total of cols. (5) and (8).	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Kistna District.																	
104	Bezavada	62	35	97	72	28	100	137	158	137	295	97	70	167	352	307	659
105	Masulipatam	109	47	156	63	20	83	239	154	129	283	59	57	116	309	269	578
106	Gudivada	26	10	36	21	5	26	62	51	44	95	28	29	57	115	99	214
107	Nuzvid	12	13	25	6	14	20	45	20	20	40	10	14	24	65	54	109
108	Jaggayyapeta	5	13	18	8	7	15	33	13	10	23	6	5	11	37	30	67
109	Valluru	7	4	11	9	4	13	24	4	3	7	10	5	15	26	21	46
110	Pedana	18	10	28	10	12	22	50	27	13	40	13	12	25	68	47	115
111	Vu. yuru	12	11	23	13	5	18	41	12	4	16	6	4	10	41	26	67
Kurnool District.																	
112	Kurnool	38	11	49	26	8	34	83	30	23	53	21	14	35	100	71	171
113	Nandyal	13	6	19	13	6	19	38	7	5	12	18	12	30	44	36	80
Madras.																	
114	Madras	814	584	1,398	670	437	1,107	2,505	1,237	1,076	2,313	1,066	952	2,318	3,701	3,135	6,836
Madura District.																	
115	Madura	297	178	475	232	128	360	835	243	193	436	215	183	398	933	736	1,669
116	Dindigul	42	29	71	60	29	89	200	35	25	60	31	23	54	177	137	314
117	Bodinayakanur	51	12	63	43	15	58	121	18	20	38	19	7	26	109	85	195
118	Periyakulam	57	9	66	35	12	47	113	20	13	33	29	28	57	115	88	203
119	Palni	43	14	57	38	12	50	104	14	15	29	8	10	18	76	75	151
120	Kodaikanal	8	9	17	4	3	7	24	12	6	18	10	10	20	39	23	62
121	Kumbam	25	11	36	28	13	41	77	6	9	15	14	10	24	56	60	116
122	Gudalur	40	18	58	14	12	26	84	18	16	34	10	12	22	81	54	135
123	Tevaram	23	17	40	29	13	58	76	7	11	18	19	21	40	66	68	134
124	Chinnamanur	19	11	30	20	3	23	53	11	12	23	10	8	18	51	43	94
125	Tiruvengadam	21	9	30	12	7	19	49	11	6	17	12	14	26	53	39	92
126	Uttamapaliyam	12	5	17	16	5	21	38	5	1	6	7	11	18	29	33	62
127	Allinagar	4	4	8	4	2	6	10	6	4	10	9	4	13	19	14	33
128	Sholavandan	14	8	22	14	7	21	43	10	6	16	4	11	15	36	31	67
129	Usilampatti	6	7	13	2	2	4	17	5	4	9	7	8	15	25	16	41
130	Kombai	21	2	23	8	4	12	35	11	4	15	5	8	13	39	24	63
131	Melur	10	4	14	6	2	8	22	3	3	6	9	3	12	26	14	40
132	Nattam	5	3	8	8	2	10	18	2	6	8	9	6	15	19	22	41
133	Tiruparankundram	10	4	14	4	4	8	22	2	6	8	7	3	10	23	17	40
Malabar District.																	
134	Calicut	77	61	138	52	67	119	257	110	75	185	64	40	104	312	234	546
135	Palghat	53	34	87	46	31	77	164	48	27	75	31	38	69	162	122	284
136	Cananore	27	18	45	26	11	37	82	21	27	48	14	8	22	63	47	110
137	Tellicherry	13	15	28	13	10	23	51	21	18	39	7	11	18	56	52	108
138	Cochin	28	7	35	17	8	25	60	21	12	33	13	11	24	69	48	117
139	Ponnani	16	9	25	4	14	18	43	19	16	35	19	14	33	63	48	111
140	Badagara	9	5	14	10	5	15	29	9	6	15	8	5	13	31	26	57
141	Tanur	10	5	15	5	3	8	23	8	7	15	13	9	22	36	24	60
Nellore District.																	
142	Nellore	114	36	150	82	30	112	252	94	84	178	63	56	119	307	252	559
143	Venkatagiri	6	5	11	4	11	15	26	7	10	17	14	9	23	32	34	66
144	Alluru	5	5	10	1	5	6	11	4	8	12	7	5	10	16	17	33
145	Kavali	9	3	12	4	6	10	22	8	8	16	9	2	11	29	20	49
146	Gudur	4	4	8	5	2	7	15	11	10	21	10	11	21	29	28	57
147	Kovuru	2	1	3	5	5	10	13	6	3	9	3	10	13	12	23	35
148	Kandukur	8	7	15	14	6	20	35	3	5	8	5	...	5	23	25	48
149	Nayandupet	7	3	10	6	11	21	37	7	11	18	13	5	18	30	27	57
150	Kaungiri	15	6	21	5	5	10	31	6	2	8	8	9	17	33	21	54

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
131	196	37	33	15	31	29	40	84	92	74	60	69	64	96	45	219	221	1,096	1,019	104
91	60	15	17	8	7	25	32	57	67	47	65	69	55	56	49	154	169	891	760	105
27	20	7	8	5	6	10	14	18	23	14	36	20	11	28	5	26	43	270	255	106
8	14	4	7	5	2	4	5	8	12	9	9	10	9	12	8	25	36	140	156	107
10	15	6	6	8	6	6	7	9	8	7	14	11	8	8	10	29	23	140	127	108
10	6	10	4	2	...	2	1	3	6	3	7	5	5	5	5	8	10	73	64	109
11	12	2	3	3	3	2	9	7	9	7	8	7	4	6	3	24	32	177	130	110
10	8	5	3	1	3	1	5	3	14	3	10	7	5	7	2	19	14	97	85	111
78	74	15	13	13	12	7	24	38	52	40	33	18	11	40	13	86	68	460	371	112
37	27	10	8	6	9	6	11	18	29	27	20	27	13	19	8	35	26	229	187	113
2,298	2,313	533	440	212	262	260	370	874	1,250	967	902	1,096	664	1,064	737	2,336	2,305	13,281	12,392	114
572	593	110	105	83	65	72	102	253	259	247	255	308	184	257	152	543	610	3,378	3,041	115
95	103	10	16	8	7	16	30	37	66	22	52	46	41	31	31	126	123	578	598	116
41	39	23	23	10	22	5	12	17	27	18	24	26	17	19	11	47	41	309	300	117
53	61	12	70	5	8	5	7	21	23	23	26	28	16	20	15	63	61	345	315	118
54	42	11	6	1	5	6	14	11	21	20	16	33	19	22	10	58	57	292	265	119
17	9	2	1	2	2	1	2	3	6	5	9	1	...	3	8	11	10	84	66	120
65	96	34	48	10	11	9	10	15	23	18	17	16	19	13	11	26	22	262	258	121
63	70	14	13	3	7	8	3	13	14	17	13	9	4	17	4	24	23	249	205	122
40	31	9	22	1	...	12	12	12	15	12	14	16	18	8	2	25	24	201	206	123
43	48	16	13	6	5	7	5	9	5	7	10	10	9	12	9	16	25	176	170	124
21	23	19	15	5	9	5	9	12	15	9	16	16	7	21	16	17	15	177	164	125
31	31	36	8	6	7	4	1	16	7	7	11	5	6	6	3	23	19	138	126	126
30	38	11	1	3	4	1	1	7	7	6	3	4	8	7	3	10	13	97	90	127
30	38	4	1	3	1	4	5	7	9	7	5	9	8	6	9	27	21	134	123	128
18	25	4	2	...	...	3	4	2	10	7	7	9	7	6	6	12	15	86	93	129
17	23	4	9	...	2	9	2	3	9	7	7	12	5	8	5	12	18	111	104	130
14	15	3	5	4	4	5	4	2	6	3	7	1	4	6	3	18	18	82	80	131
8	15	5	4	1	1	4	3	4	11	7	7	4	4	9	3	12	14	73	84	132
11	11	8	3	3	2	4	5	2	10	5	7	4	5	5	8	13	13	76	77	133
276	286	41	61	38	25	41	58	155	123	169	121	141	88	126	74	257	206	1,556	1,276	134
89	104	15	27	12	10	12	23	63	52	43	47	61	26	63	31	100	122	614	604	135
66	96	12	18	9	7	13	7	36	34	48	32	47	21	35	12	79	88	425	327	136
53	50	15	12	12	7	14	19	41	40	48	38	47	24	40	19	86	90	404	351	137
47	60	29	18	5	4	10	11	37	30	33	33	26	19	43	14	58	60	367	287	138
48	65	6	5	2	7	7	4	10	14	18	19	14	20	17	7	40	32	225	211	139
31	33	6	13	4	4	9	10	15	24	17	9	18	12	13	7	18	22	162	160	140
23	28	2	3	...	2	4	...	3	8	8	10	11	9	6	4	19	21	107	109	141
181	163	37	39	24	22	26	41	79	112	73	66	75	52	81	40	146	202	979	989	142
14	20	5	7	8	10	5	13	16	21	10	11	13	8	10	8	25	43	138	175	143
8	9	1	3	8	4	2	...	4	4	10	8	11	2	7	2	26	28	93	77	144
17	12	1	4	3	5	9	7	8	9	4	7	6	5	4	5	17	18	98	92	145
13	17	4	2	1	2	1	5	10	12	7	7	9	8	15	3	14	25	103	109	146
4	4	2	...	16	12	6	2	5	1	8	9	10	5	5	9	30	17	104	82	147
8	14	2	...	8	2	4	2	4	6	2	6	9	7	6	5	24	30	90	97	148
11	5	4	3	3	6	4	2	4	6	10	7	8	9	5	8	28	22	107	93	149
10	14	3	1	1	...	1	4	2	8	4	4	3	2	4	2	14	17	77	73	150

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities during the year 1937 (compiled with reference to

Serial number.	Municipalities and rural towns	Not exceeding one month.						Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			
		Males.			Females.			Total of cols. (5) and (8).	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Nilgiri District.																	
151	Ootacamund...	34	17	51	15	16	31	82	44	24	68	22	18	40	117	73	190
152	Coonoor ...	11	8	19	17	5	22	41	7	8	15	7	7	14	33	37	70
153	Kotagiri ...	6	2	8	5	3	8	16	5	1	6	4	1	5	17	10	27
154	Wellington ...	1	1	2	1	...	1	3	8	2	10	8	4	12	18	7	25
North Arcot District.																	
155	Vellore...	70	47	117	39	32	71	188	78	58	136	75	71	146	270	210	470
156	Tiruvannamalai ...	30	16	46	19	15	34	86	33	24	57	37	29	66	122	87	209
157	Guduvattam ...	34	14	48	20	10	30	78	34	38	72	13	19	32	95	87	182
158	Vaniyambadi ...	21	13	34	10	8	18	52	25	20	45	18	7	25	77	45	122
159	Tirupattur ...	27	3	30	11	3	14	44	7	14	21	8	7	15	45	35	80
160	Wazhapet ...	8	4	12	3	2	5	17	11	13	24	10	4	14	33	22	55
161	Ambur ...	23	9	32	11	43	75	18	19	37	19	25	44	69	87	156	
162	Arni ...	15	7	22	17	12	29	51	8	24	32	21	17	38	51	70	121
163	Arcot ...	9	5	14	7	10	17	31	12	11	23	18	8	26	41	36	77
164	Arkonam ...	13	3	16	7	3	10	26	15	2	17	13	6	19	41	36	77
165	Tiruvattur ...	13	10	23	9	13	25	48	25	9	34	17	9	26	65	43	108
166	Polar ...	7	2	9	9	5	14	23	12	9	21	8	15	23	29	38	67
167	Ranipettai ...	11	10	21	14	6	24	41	13	23	36	14	12	26	46	45	91
168	Visharom ...	21	3	24	6	3	9	33	7	10	17	8	5	13	39	24	63
169	Pernampattu ...	5	5	10	2	3	5	15	6	4	10	7	5	12	24	16	39
170	Shollugur ...	5	5	10	2	3	5	15	6	4	10	7	5	12	24	16	39
171	Palikonda ...	9	5	14	11	4	15	29	10	5	15	12	15	27	36	35	71
172	Wandiwash ...	10	9	19	7	3	10	29	7	8	15	10	10	30	36	28	64
173	Kalambar ...	5	6	11	3	5	8	19	6	6	12	14	5	19	31	9	50
174	Chetput ...	6	6	12	7	3	10	20	7	6	13	4	4	8	21	20	41
175	Kaveripakkam ...	8	2	10	7	3	10	20	7	6	13	4	4	8	21	20	41
176	Panapakkam...	2	4	6	...	3	3	9	4	4	8	4	7	11	14	14	28
Ramnad District.																	
177	Viradhanagar ...	47	28	75	56	22	78	153	35	25	60	32	35	67	142	138	280
178	Srivilliputtur ...	35	18	53	28	14	42	95	15	13	28	14	13	27	82	68	150
179	Karakudi ...	18	3	21	10	6	16	37	14	19	33	12	11	23	47	46	93
180	Sivakasi ...	3	6	9	4	2	6	15	4	6	10	5	4	9	18	16	34
181	Devakottai ...	3	10	13	6	1	7	20	18	3	21	9	7	16	40	17	57
182	Rajapalayam ...	37	19	56	28	21	49	105	33	27	60	39	41	80	128	117	245
183	Aruppukottai ...	32	9	41	22	8	30	71	18	26	44	25	17	42	84	73	157
184	Ramnad ...	7	11	18	9	8	17	35	5	5	10	7	4	11	30	26	56
185	Paramagudi ...	18	9	27	10	7	17	44	15	7	22	11	10	21	53	37	90
186	Uniyangudi ...	10	3	13	7	...	7	20	2	4	6	2	4	6	17	15	32
187	Sivaganga ...	5	1	6	8	5	13	19	3	4	7	1	3	4	10	20	30
188	Tirupattur ...	9	5	14	3	4	7	21	7	5	12	7	3	10	28	18	46
189	Ahramam ...	14	10	24	6	5	11	35	6	3	8	11	3	14	41	17	57
190	Kamudi ...	9	5	14	13	2	15	29	...	2	2	3	2	5	17	19	36
191	Watrapp ...	12	13	25	6	3	9	34	8	6	14	13	8	21	46	23	69
192	Sattur ...	10	4	14	7	1	8	22	5	1	6	6	7	13	25	16	41
193	Rameswaram ...	14	5	19	4	5	9	28	7	9	16	1	9	10	27	27	54
194	Settur ...	22	6	28	13	5	18	46	9	6	15	9	7	16	43	31	77
195	Manamadurai ...	7	3	10	2	3	5	15	4	4	8	4	7	11	18	10	34
196	Tirupuvanam ...	14	1	15	8	3	11	26	6	...	6	5	3	8	26	14	40
197	Tondi ...	4	6	10	4	5	9	19	8	2	10	3	6	9	21	17	38
198	Kandanur ...	...	1	1	3	1	4	5	3	3	6	3	2	5	7	9	16
199	Pallathur ...	3	3	6	4	3	7	16	6	6	12	4	2	6	19	15	34
200	Kilakkurai ...	8	1	9	4	3	8	24	3	...	3	2	5	7	21	13	34
201	Pandijandi ...	11	5	16	5	5	10	17	1	...	1	2	3	5	10	16	26
202	Emaneswaram ...	4	3	7	5	5	10	12	1	...	1	7	3	10	16	8	23
203	Nattarasankottai ...	7	...	7	4	1	5	12	1	...	1	4	5	9	25	2	47
204	Puliampatti ...	12	7	19	8	6	14	33	2	3	5	4	5	9	25	2	47
205	Kottiyur ...	1	2	3	2	2	4	7	2	1	3	2	3	5	7	8	15

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
46	57	9	19	18	16	17	14	40	17	28	20	20	17	21	14	65	52	381	209	151
26	25	3	6	2	4	11	11	20	22	15	22	13	12	9	9	31	30	163	178	152
16	13	2	6	2	6	6	1	10	4	12	2	4	5	7	4	10	14	85	65	153
7	9	...	4	1	3	1	...	3	6	9	3	2	6	10	4	7	8	58	50	154
122	124	35	34	23	22	26	40	49	94	44	77	60	49	64	53	191	180	884	879	155
112	112	23	16	10	11	18	19	26	44	32	35	37	15	26	22	80	90	481	450	156
51	71	13	9	8	8	3	11	15	36	16	19	21	12	25	9	63	77	325	339	157
22	19	6	6	4	8	4	15	12	28	17	16	12	18	16	8	47	56	217	219	158
30	28	6	6	2	3	8	6	11	22	20	17	16	12	11	8	42	46	191	18	159
27	19	3	3	4	2	5	5	4	14	8	3	7	7	11	2	32	23	134	100	160
31	31	6	11	6	7	3	6	13	17	12	18	16	10	15	6	46	44	217	239	161
49	49	13	10	10	6	5	7	10	13	10	8	18	6	17	13	48	47	231	227	162
17	19	3	2	2	3	2	5	11	9	6	7	11	6	5	8	22	4	123	119	163
17	24	6	6	2	5	5	8	11	22	12	7	12	7	9	7	32	15	150	119	164
31	29	10	7	4	4	5	9	12	13	10	8	18	10	13	14	39	43	207	189	165
36	24	7	4	3	2	3	4	6	8	7	9	11	6	11	6	21	20	144	136	166
36	22	10	10	7	5	7	7	12	19	7	7	16	12	7	...	16	21	120	104	167
16	14	5	3	1	4	4	4	4	8	5	6	4	6	5	2	14	12	82	82	168
9	6	1	3	1	...	2	3	7	12	2	3	8	5	9	7	16	17	75	72	169
13	24	5	3	3	1	1	1	5	4	7	11	10	2	7	2	20	18	108	193	171
28	28	5	3	3	1	1	6	7	8	4	5	5	6	5	6	23	17	117	107	172
42	37	7	5	1	1	1	2	7	11	4	9	2	6	3	6	22	12	126	126	173
16	15	6	2	1	...	2	5	4	8	7	2	1	2	4	5	18	14	89	72	174
8	11	1	2	1	2	1	5	5	9	3	3	3	4	9	4	17	21	70	78	175
10	6	1	2	2	...	2	2	3	3	2	8	7	6	4	6	12	12	57	49	176
112	123	17	18	5	9	13	14	25	43	23	30	37	29	37	24	73	85	484	513	177
67	70	6	10	2	4	6	14	20	36	30	33	27	16	23	11	74	88	354	340	178
23	32	6	7	5	4	3	9	16	28	13	22	27	19	29	17	36	50	206	234	179
12	19	6	5	1	3	3	4	10	8	10	10	7	7	6	10	30	41	19	120	180
14	21	6	9	5	4	7	4	13	13	20	24	26	22	22	21	32	55	189	190	181
114	105	27	12	17	11	19	26	34	21	27	29	20	13	27	15	83	87	473	453	182
87	60	13	10	10	14	10	8	20	30	22	29	13	31	17	17	71	44	385	281	183
24	16	7	5	4	11	2	6	5	16	5	6	6	12	9	4	23	28	115	130	184
25	32	4	10	4	9	8	12	15	24	16	16	15	13	25	9	32	37	197	196	185
16	15	6	8	4	4	1	4	11	13	8	11	4	8	9	6	15	31	91	113	186
17	14	7	2	2	2	4	3	7	7	10	7	6	8	8	13	14	22	81	90	187
16	13	4	3	4	1	5	7	17	11	9	8	8	3	6	10	20	14	117	85	188
18	16	16	18	2	7	5	7	8	12	5	11	5	6	5	14	17	19	121	127	189
18	13	1	4	2	2	...	1	1	2	7	3	2	5	7	4	10	5	65	58	190
33	27	2	4	1	1	2	4	5	8	7	6	8	1	7	2	22	17	138	92	191
23	21	3	10	7	1	5	5	11	10	13	11	17	9	4	7	13	12	121	102	192
19	16	8	3	3	3	4	5	8	14	8	9	11	9	8	9	25	24	121	122	193
43	29	6	3	1	3	4	4	6	6	6	4	10	5	13	4	21	32	158	121	194
8	5	3	...	...	1	2	7	3	7	10	2	8	3	8	8	14	11	80	57	195
18	22	3	3	1	2	7	12	7	13	5	16	8	5	9	4	13	14	97	105	196
9	11	2	4	1	1	2	4	4	4	5	2	1	3	2	15	6	61	61	59	197
4	6	1	1	1	2	1	1	5	4	3	2	5	6	5	1	14	14	46	44	198
4	6	2	...	...	2	1	3	4	7	3	3	6	5	6	10	6	8	47	56	199
30	35	14	17	12	8	6	28	9	32	11	13	19	15	7	13	30	33	157	209	200
21	20	3	6	3	1	1	7	7	6	...	1	6	3	8	8	16	16	92	76	201
10	7	4	6	4	1	4	2	6	10	4	4	2	4	6	5	22	7	65	64	202
4	7	5	1	1	3	2	3	3	1	...	6	8	1	7	13	6	50	47	203	203
16	17	2	2	1	...	2	2	3	1	4	2	3	3	2	6	16	9	82	66	204
5	2	1	1	1	...	1	2	5	3	2	6	9	4	2	5	4	11	39	41	205

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities during the year 1937 (compiled with reference to

Serial number.	Municipalities and rural towns.	Not exceeding one month.						Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			
		Males.			Females.			(5) Total of cols. and (8).	Males.	Females.	Total.	Males.	Females.	Total.			
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Salem District.																	
206	Salem ...	109	43	152	81	42	123	275	94	59	153	74	89	163	320	271	591
207	Dharmapuri ...	9	6	15	5	4	9	24	6	11	17	12	11	23	33	31	64
208	Rasipuram ...	30	8	38	15	5	20	58	10	18	28	20	11	31	68	50	118
209	Krishnagiri ...	10	1	11	4	7	11	22	13	8	21	6	8	14	30	27	57
210	Tiruchengoda ...	17	6	23	19	5	24	47	7	7	14	9	5	14	30	27	57
211	Attur ...	16	5	21	9	7	16	27	6	12	18	7	2	9	34	30	64
212	Sendamangalam ...	14	9	23	21	7	28	51	1	3	4	4	2	6	28	27	55
213	Namakkal ...	5	1	6	6	1	7	13	3	...	3	4	7	11	18	14	32
214	Hosur ...	5	3	8	6	4	10	21	6	4	10	5	3	8	22	17	39
South Arcot District.																	
215	Cuddalore ...	60	34	94	50	30	80	174	53	42	95	46	53	99	193	173	366
216	Chidambaram ...	28	10	38	29	6	35	73	29	28	57	13	16	29	80	79	159
217	Villupuram ...	14	11	25	11	9	20	45	17	17	34	9	9	18	51	46	97
218	Tindivanam ...	17	1	18	13	4	17	35	10	8	18	5	13	18	53	38	91
219	Panruti ...	6	6	12	2	7	9	21	11	8	19	4	7	11	27	24	51
220	Porto Novo ...	16	7	23	13	4	17	40	10	14	24	10	14	24	43	45	88
221	Nellikuppam ...	12	5	17	10	8	18	35	16	13	29	14	6	20	47	37	84
222	Tirukkoyilur ...	6	2	8	5	6	11	19	9	8	17	6	6	12	23	25	48
223	Mannargudi ...	11	6	17	11	4	15	32	6	10	16	10	9	19	33	34	67
224	Vridhdachalam ...	8	4	12	2	2	4	16	5	10	15	5	5	10	21	24	45
225	Bhuvnagiri ...	7	4	11	5	4	9	20	1	7	8	9	8	17	21	24	45
226	Kallakurichi ...	6	3	9	7	5	12	21	5	8	13	4	5	9	18	25	43
227	Chinnasalem ...	2	...	2	3	4	7	9	3	4	7	5	5	10	10	16	26
228	Valavanur ...	6	5	11	5	5	10	21	10	10	20	6	7	13	27	27	54
229	Srinivasan ...	2	5	7	3	5	8	15	3	2	5	8	3	11	18	13	31
230	Ulundurpet ...	13	4	17	7	4	11	28	4	2	6	7	4	11	28	17	45
South Kanara District.																	
231	Mangalore ...	46	17	63	36	22	58	121	45	31	76	29	34	63	137	123	260
232	Udupi ...	18	7	25	10	8	18	43	17	15	32	10	7	17	52	40	92
233	Kasaragod ...	11	6	17	8	1	9	26	1	3	4	11	6	17	29	18	47
234	Coondapoor ...	10	2	12	7	5	12	24	6	8	14	4	2	6	22	22	44
235	Pottur ...	1	2	3	6	2	8	11	6	2	8	4	4	8	13	14	27
236	Kavka ...	7	1	8	3	2	5	13	5	1	6	7	2	9	20	8	28
237	Mulki ...	5	5	10	4	1	5	15	5	5	10	4	...	4	19	10	29
Tanjore District.																	
238	Tanjore ...	82	77	159	46	43	89	248	81	56	137	48	33	81	288	178	466
239	Kumbakonam ...	91	33	124	71	26	97	221	65	62	127	40	45	85	299	204	503
240	Negapatam ...	30	29	59	35	20	55	120	51	34	85	31	19	50	117	108	225
241	Mavayaram ...	33	14	47	17	12	29	76	20	18	38	18	12	30	68	59	127
242	Mannargudi ...	27	13	40	17	14	31	71	18	9	27	16	8	23	73	48	121
243	Tirucharur ...	27	8	35	21	5	26	61	24	17	41	8	10	18	67	63	130
244	Vedarsaniyam ...	17	10	27	10	13	23	50	7	9	16	2	8	10	26	37	63
245	Shiyali ...	12	7	19	10	9	19	38	12	9	21	14	9	23	46	40	86
246	Tranquebar ...	22	6	28	7	3	10	38	17	28	45	7	13	20	52	61	103
247	Tiruvadamardur ...	11	8	19	12	8	20	39	8	6	14	7	2	9	34	28	62
248	Pattu-ottai ...	10	8	18	11	4	15	33	7	3	10	2	2	4	27	20	47
249	Adirampattam ...	10	4	14	13	3	16	30	3	12	15	6	3	9	30	31	61
250	Ayampettai ...	9	6	15	10	5	15	30	11	14	25	2	4	6	28	31	59
251	Vallam ...	6	10	16	5	7	12	28	7	11	18	7	6	13	30	29	59
252	Tiruvadi ...	6	7	13	2	3	5	18	5	6	11	4	5	9	22	16	38
253	Tiratturappundi ...	9	5	14	7	2	9	23	1	6	7	6	3	9	21	18	39
254	Muttupet ...	9	12	21	6	2	8	29	4	3	7	6	2	8	31	23	54
255	Tirukkattappalli ...	6	5	11	4	2	6	17	2	7	9	7	9	16	20	12	44
256	Kuttalam ...	3	1	4	2	2	4	8	3	6	9	6	5	11	13	15	28
257	Vaidiswaran Kovil ...	4	...	4	5	3	8	12	5	5	10	2	1	3	11	14	25
258	Valangimam ...	5	...	5	4	1	5	10	6	2	8	5	5	10	16	12	28

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
210	235	71	66	43	44	43	50	84	129	92	108	108	87	77	49	256	250	1,304	1,289	206
23	26	3	6	1	4	4	2	6	10	6	9	8	12	6	3	23	18	113	121	207
31	33	7	7	5	5	6	9	15	22	5	8	12	7	11	16	24	34	184	191	208
15	16	2	5	3	1	3	10	4	13	7	9	11	5	9	13	25	27	109	126	209
19	25	12	5	6	5	5	6	6	9	10	13	9	11	11	7	22	25	139	139	210
26	19	6	4	2	2	4	10	6	15	7	12	5	4	7	1	25	20	118	119	211
12	20	7	4	...	7	7	3	5	13	11	7	8	6	10	10	18	10	106	116	212
6	9	5	2	3	1	2	4	1	9	3	2	9	3	4	1	22	13	68	58	213
16	11	5	5	3	3	1	3	1	5	1	2	6	...	3	3	8	8	66	57	214
87	91	22	31	10	15	18	22	44	71	50	76	73	39	62	51	146	133	706	704	215
39	34	7	12	8	4	5	9	20	33	23	31	31	30	39	32	79	79	331	347	216
34	22	8	12	4	3	2	10	14	22	19	24	14	14	16	13	48	29	207	193	217
15	28	3	7	6	1	1	4	16	20	18	20	13	17	13	13	37	32	165	180	218
11	13	6	3	3	2	6	7	12	17	13	12	19	15	12	7	22	18	131	118	219
17	18	5	4	3	1	8	8	8	7	14	13	5	12	12	9	33	36	146	159	220
23	37	4	5	4	5	5	4	12	16	17	12	13	5	13	7	19	26	134	134	221
30	23	4	4	1	...	2	3	7	9	7	7	5	8	14	5	28	25	112	118	222
11	17	10	...	3	3	8	9	6	10	3	13	9	2	8	5	14	13	93	74	223
10	8	...	...	7	4	7	8	10	19	8	19	17	11	12	15	23	30	134	152	224
24	14	5	8	1	2	2	3	8	4	12	4	6	5	4	3	16	13	75	81	225
14	8	4	1	1	1	2	3	3	9	5	4	3	3	4	7	10	11	62	71	226
12	12	3	4	4	1	...	1	8	8	2	15	10	7	11	18	20	14	100	111	227
16	14	4	4	1	...	2	3	1	6	13	9	7	4	7	5	12	15	89	80	228
14	2	2	7	1	...	2	1	6	14	4	5	6	2	4	13	9	12	74	66	229
13	10	2	1	...	...	2	1	6	5	4	5	6	...	4	...	...	...	...	...	230
92	105	27	39	15	30	29	40	74	97	80	72	78	46	50	46	178	141	780	739	231
37	19	2	8	5	4	3	4	11	14	17	17	12	7	17	12	34	38	191	163	232
15	22	4	6	4	...	2	2	6	8	6	4	8	6	10	6	19	14	106	85	233
9	5	7	4	3	...	1	2	3	4	13	8	11	11	13	10	13	10	92	80	234
17	13	3	1	2	2	3	5	9	7	4	3	5	8	4	7	11	11	71	67	235
...	5	5	1	7	9	5	8	14	7	8	4	8	4	9	4	16	12	92	63	236
5	7	1	4	2	...	2	2	4	5	6	8	5	9	4	4	17	12	65	61	237
141	123	32	38	26	21	28	28	93	110	110	78	127	69	127	70	230	255	1,202	970	238
115	117	17	36	14	12	42	56	109	89	79	52	81	60	87	70	197	253	881	957	239
71	60	28	11	9	11	26	26	46	69	58	60	77	60	69	44	141	205	641	654	240
57	49	14	11	9	9	10	18	28	26	14	18	26	20	38	31	98	138	417	471	241
32	44	8	10	5	2	4	11	15	41	21	19	27	28	17	22	50	63	240	269	242
26	21	8	9	7	3	5	12	17	28	16	10	9	11	12	10	38	42	168	189	243
21	29	4	8	3	4	3	13	20	10	6	12	14	13	12	14	84	48	153	186	244
23	3	3	10	7	4	3	3	4	3	3	15	11	7	10	8	61	48	160	174	245
9	19	10	8	4	5	6	2	8	14	7	10	8	8	8	11	31	29	121	125	246
14	17	6	6	1	1	4	4	5	15	8	16	15	8	12	8	20	23	118	119	247
15	13	9	4	4	...	6	2	4	12	14	10	12	10	11	9	25	31	114	186	248
10	13	4	8	1	1	4	4	7	15	9	9	8	10	9	4	31	34	122	143	249
15	16	8	10	4	8	3	11	13	18	15	12	19	10	11	15	35	43	149	161	250
14	18	7	3	1	1	2	3	6	8	5	5	14	11	13	10	33	30	110	94	252
8	12	3	...	3	...	3	3	11	6	13	3	7	12	5	5	17	19	101	94	253
19	16	5	...	...	...	2	3	5	10	6	8	9	8	7	6	21	14	80	76	254
6	1	3	2	1	6	5	1	8	13	5	6	8	3	4	6	28	23	101	95	255
9	11	1	3	2	...	6	4	6	7	11	4	8	7	9	10	17	28	86	86	256
9	4	4	3	1	...	5	3	3	6	7	3	8	9	3	2	20	27	63	79	257
6	11	2	1	...	...	2	3	4	4	3	7	5	4	5	8	8	6	60	47	258

No. IV.—Deaths registered according to Age in the District exclusive of Municipalities during the year 1937 (compiled with reference to

Serial number.	Municipalities and rural towns	Not exceeding one month.							Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.		
		Males.			Females.			Total of males and females.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Tinnevely District																	
259	Tatticorin ...	111	39	150	75	28	103	253	61	59	120	42	36	78	253	108	161
260	Tinnevely ...	91	55	146	61	53	114	269	66	39	105	34	38	72	249	81	137
261	Palumcottah ...	39	14	53	29	8	37	90	14	11	25	14	10	24	81	58	139
262	Tenkasi ...	40	16	56	19	12	31	87	21	8	29	14	15	29	91	54	145
263	Kadavanallur ...	30	11	41	36	15	51	92	17	16	33	15	11	26	73	78	151
264	Puliyangudi ...	30	15	45	31	14	45	90	17	20	37	16	27	43	78	92	170
265	Viravanallur ...	66	18	84	44	19	63	131	20	19	39	16	7	23	110	83	193
266	Kallidikurichi ...	36	19	55	24	13	43	98	14	14	28	14	8	22	83	65	148
267	Virandai ...	33	15	48	29	13	42	90	8	20	28	5	10	15	61	72	133
268	Ammasamudram ...	18	16	34	13	12	25	59	9	11	20	9	16	25	52	62	104
269	Tiruchendur ...	16	9	25	7	6	12	37	11	19	30	8	17	25	44	8	92
270	Sankarankoil ...	16	13	29	10	6	16	51	12	9	21	5	13	18	46	44	90
271	Sivagiri ...	21	12	33	10	4	14	47	7	1	8	6	6	12	46	21	67
272	Udumudi ...	21	7	28	13	10	23	51	6	11	17	8	7	15	42	41	83
273	Vasudevanallur ...	21	12	33	13	8	21	54	2	1	3	5	8	13	44	30	74
274	Serndevi ...	9	16	25	8	9	17	42	11	19	30	5	5	10	41	32	73
275	Kulasekaranpatnam ...	20	6	26	11	8	19	45	8	9	17	2	5	7	36	33	69
276	Kovilpatti ...	15	10	25	7	12	19	44	7	11	18	10	7	17	42	37	79
277	Serukuntam ...	16	10	26	10	5	15	41	4	3	7	6	4	10	31	22	53
278	Kadaya ...	15	8	23	12	9	21	44	6	10	16	7	14	21	36	45	81
279	Nanguneri ...	19	12	31	13	14	27	58	13	5	18	4	2	6	48	34	82
280	Thenebanallur ...	16	14	30	16	10	26	56	5	5	10	9	3	12	44	34	78
281	Ettyanuram ...	17	7	24	9	6	15	39	7	3	10	4	6	10	35	24	59
282	Kayalpattam ...	14	2	16	7	5	12	28	17	6	23	10	17	27	43	55	78
283	Vikranthapuram ...	21	11	32	19	11	30	62	4	6	10	4	11	15	40	47	87
284	Vakkavallur ...	21	7	28	8	7	15	43	10	1	11	7	5	12	45	41	86
285	Attankulam ...	10	8	18	13	6	19	37	4	5	9	6	7	13	28	31	59
286	Patimadai ...	18	11	29	6	8	17	46	1	3	4	1	6	7	31	26	57
287	Alvartirunagari ...	7	6	13	11	5	16	29	2	4	6	3	6	9	18	26	44
288	Nazareth ...	4	3	7	4	1	5	12	7	7	14	4	6	10	18	18	36
289	Kudumalai ...	10	2	12	8	4	12	24	8	1	9	6	6	12	26	19	45
290	Kavattar ...	14	2	16	9	1	10	26	2	3	5	9	2	11	27	15	42
291	Eral ...	3	3	6	2	5	7	12	3	2	5	2	3	5	11	11	22
Trichinopoly District.																	
292	Trichinopoly ...	129	88	217	83	63	146	363	131	90	221	152	110	262	600	546	846
293	Srirangam ...	33	15	48	28	12	40	88	21	30	51	18	19	37	87	69	156
294	Kurur ...	22	9	31	25	6	31	62	7	10	17	19	16	35	57	57	114
295	Golden Rock ...	13	4	17	9	4	13	30	14	17	31	14	20	34	45	50	95
296	Turaiyur ...	27	14	41	18	13	31	72	8	6	14	8	12	20	57	49	106
297	Lalgudi ...	13	7	20	11	8	19	39	5	7	12	7	5	12	32	31	63
298	Aiyalur ...	15	3	18	12	4	16	34	6	5	11	7	5	12	31	26	57
299	Pallapatti ...	12	5	17	11	3	14	31	3	6	9	8	7	13	26	26	52
300	Kulitlali ...	7	7	14	7	4	11	25	6	9	15	8	4	12	28	24	52
301	Udairarpalayam ...	18	8	26	10	6	16	42	8	3	11	9	3	12	43	22	65
302	Jayankondachola- puram.	4	4	8	3	7	10	18	10	8	18	...	1	1	18	19	37
302	Manachanallur ...	2	3	5	1	3	4	9	6	2	8	6	1	7	17	7	24
Vizagapatam District.																	
304	Vizagapatam ...	68	29	97	57	20	77	174	157	116	273	69	55	124	323	248	571
305	Vizianagaram ...	65	19	84	48	18	66	160	84	71	155	51	36	87	219	173	392
306	Anakapalle ...	23	15	38	21	9	30	63	69	73	142	22	25	47	129	128	257
307	Chenacole ...	16	11	27	10	8	18	45	20	18	38	10	12	22	57	48	105
308	Rimlipatam ...	17	7	24	8	2	10	34	22	12	34	11	14	25	57	36	93
309	Bobbili ...	26	13	39	27	7	34	73	16	13	29	16	9	25	71	56	127
310	Salur ...	22	13	35	11	15	26	61	41	41	82	20	25	45	96	92	188
311	Pirvithipattinam ...	17	6	23	17	12	29	52	23	8	31	9	12	21	55	49	104
312	Narasipattinam ...	13	5	18	5	4	9	27	24	17	41	11	5	16	53	31	84
313	Yelamanchilli ...	4	2	6	6	4	10	16	18	15	33	10	9	19	34	34	68
314	Palkonla ...	15	5	20	6	6	12	31	13	18	31	7	8	15	40	38	78
315	Ichhapuram ...	5	8	13	3	6	9	22	8	12	20	10	4	14	31	25	56

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

One to five years.		Five to ten years.		Ten to 15 years.		15 to 20 years.		20 to 30 years.		30 to 40 years.		40 to 50 years.		50 to 60 years.		60 years and upwards.		Total of all ages.		Serial number.
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	
176	174	38	38	14	19	17	25	47	72	59	57	72	58	84	80	168	210	928	921	9
85	103	20	21	11	9	28	36	36	52	52	44	59	44	75	43	119	171	712	706	260
23	18	11	6	4	2	8	13	28	36	23	34	46	20	40	17	61	6	325	269	261
38	33	6	5	5	5	5	8	11	18	17	16	15	15	21	18	49	41	258	212	262
31	38	6	7	2	4	4	3	4	13	10	6	6	7	8	16	46	42	190	214	263
68	99	13	11	8	7	7	10	18	24	12	11	18	11	20	14	40	34	278	313	264
32	37	6	5	2	6	5	7	12	19	12	15	18	16	22	21	52	59	271	268	265
30	39	8	13	3	3	3	4	6	12	8	19	14	6	21	15	51	65	228	238	266
33	36	8	9	3	3	1	7	11	10	8	17	8	8	14	10	33	30	185	202	267
20	35	5	6	3	6	2	6	4	9	4	5	9	12	13	15	24	33	120	153	268
11	14	6	6	2	2	3	4	4	6	8	6	6	5	11	7	32	21	158	132	270
41	34	6	6	4	2	4	4	2	5	7	4	8	5	7	10	26	28	169	126	271
48	43	7	4	4	2	4	4	2	8	12	7	9	7	13	16	25	26	142	157	272
20	10	9	5	2	6	2	7	8	14	10	10	9	5	11	6	25	32	144	141	273
30	31	3	4	...	2	2	6	9	9	7	4	12	11	13	14	25	27	124	133	274
18	22	...	3	2	2	2	4	10	12	7	10	11	8	18	12	33	41	147	152	275
16	19	9	4	5	9	2	4	8	10	13	8	10	6	11	15	15	14	129	141	276
17	13	2	2	1	2	1	2	9	6	6	8	6	8	12	8	17	19	140	86	277
9	12	2	3	...	2	2	5	2	9	6	11	4	6	4	4	17	20	104	139	278
29	21	5	8	...	4	4	5	5	7	9	3	12	5	10	7	39	12	132	95	279
12	15	2	2	4	3	4	3	6	10	4	4	4	2	11	5	21	18	114	101	280
19	17	1	4	...	...	...	7	7	2	5	5	3	7	10	8	19	6	108	95	281
25	23	4	3	3	4	3	5	4	1	7	12	11	7	14	5	23	48	127	149	282
15	18	1	2	3	1	4	2	4	12	4	4	11	6	7	6	30	24	139	141	283
30	29	5	3	3	1	4	6	4	11	6	7	10	6	9	5	14	17	105	91	284
11	14	3	6	1	3	1	1	6	4	1	6	4	4	10	6	20	11	94	85	285
14	17	2	2	2	1	5	2	8	20	6	5	10	4	7	7	10	15	76	99	286
7	11	1	...	...	...	1	2	9	7	12	13	9	5	11	4	14	18	89	110	287
14	19	2	5	4	3	4	4	7	7	5	6	7	4	4	6	23	14	87	75	288
11	10	5	4	1	2	4	4	6	6	10	7	2	2	2	3	14	17	87	87	289
21	16	2	7	2	6	3	4	6	1	6	1	6	3	1	6	15	8	73	55	290
19	11	...	...	...	...	1	4	4	1	6	3	1	2	2	3	15	8	73	55	290
16	8	3	2	...	...	...	1	3	2	8	11	5	5	7	9	13	12	65	61	291
389	384	79	70	46	57	43	100	155	250	169	154	176	102	308	116	386	426	2,140	2,005	292
48	41	13	15	6	7	6	23	33	37	26	43	34	23	47	24	104	95	404	397	293
37	33	12	11	6	3	12	7	19	26	20	26	28	12	20	15	53	60	254	250	294
37	36	8	4	2	2	4	2	2	21	12	10	8	9	4	8	18	34	140	176	295
43	35	23	13	8	5	6	7	13	18	6	25	11	9	13	16	30	52	210	230	296
28	28	9	6	4	2	6	7	12	12	5	12	6	12	10	13	27	33	139	150	297
19	12	2	5	1	3	2	3	6	6	6	7	13	3	3	5	22	27	104	97	298
14	15	3	6	2	9	1	9	7	9	9	14	12	5	8	8	15	25	101	126	299
15	14	7	8	2	4	2	5	5	7	6	3	8	3	4	3	22	18	99	53	300
14	15	4	2	4	4	2	5	3	3	12	6	5	7	8	6	19	27	110	97	301
13	6	...	2	1	...	...	6	3	7	3	2	9	4	2	4	11	13	60	63	302
9	11	1	3	1	1	3	6	7	9	8	8	9	5	5	3	10	19	70	72	303
116	96	26	31	18	20	21	34	92	83	112	66	109	56	74	40	140	160	1,031	834	304
75	65	14	13	6	9	9	20	40	50	84	47	52	52	31	42	133	198	616	669	305
43	30	13	9	6	9	8	13	16	27	24	24	27	12	30	18	72	82	366	352	306
20	20	5	12	3	4	6	8	15	21	16	13	11	17	25	9	35	44	113	196	307
22	24	1	3	3	2	1	4	6	7	5	1	12	3	11	8	21	32	139	124	308
18	25	10	8	7	3	7	15	9	25	16	16	12	13	11	20	14	46	196	214	309
40	36	13	18	19	10	6	12	30	16	18	29	22	26	11	13	45	52	309	304	310
19	16	5	2	2	1	3	7	13	20	17	8	17	13	9	16	33	35	173	167	311
12	27	5	7	2	2	5	3	5	12	15	15	11	6	19	8	32	35	157	153	312
9	6	1	4	2	3	...	...	6	9	4	5	6	7	8	3	22	19	92	88	313
11	19	5	1	3	8	11	9	7	9	10	10	14	9	21	14	16	17	137	134	314
12	21	4	5	7	2	3	3	3	5	7	9	8	5	16	12	32	32	123	119	315

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities during the year 1937 (compiled with reference to

Serial number.	Municipalities and rural towns.	Not exceeding one month.						Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total.			
		Males.			Females.			Total of cols. (5) and (9).	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	<i>Vizagapatam District—cont.</i>																
316	Tekkali	7	4	11	6	7	13	24	15	11	26	11	6	17	37	30	67
317	Sompeta	5	5	10	10	7	17	27	4	9	13	1	5	6	15	31	46
318	Sringavarapukota.	10	6	16	8	3	11	27	11	7	18	6	7	13	33	25	58
319	Varaghattam ...	7	6	13	7	7	14	30	12	10	22	18	4	32	46	28	74
320	Narasannapeta ...	11	5	16	4	3	7	23	9	9	18	7	6	13	32	23	55
321	Chodavaram ...	4	2	6	6	6	12	12	6	8	14	7	1	8	19	15	34
322	Madukula	8	1	9	4	1	5	16	12	10	22	6	4	10	29	19	48
323	Chinnamerangi ...	11	11	22	2	1	3	27	7	15	22	5	8	13	30	32	62
324	Rajana	5	7	12	2	2	5	17	13	11	24	3	6	9	28	32	60
	Total for Municipalities and Rural Towns ...	7,453	3,829	11,282	5,397	3,086	8,482	19,964	7,269	6,003	13,262	5,729	6,102	10,831	24,230	19,877	44,157
	Total population of Municipalities and Rural Towns according to the census of 1931 ...	..	..	..	..	..	..	..	..	..	..	..	..	..	86,615	86,976	173,591
	Ratio per 1,000 of births for age periods under 1 year and per 1,000 of population for age periods above 1 year.	58.61	30.11	58.73	46.34	25.54	71.89	80.52	57.17	60.45	53.90	45.06	42.24	43.69	120.45	164.58	178.71
	Total for the province	56,239	23,713	85,002	44,087	23,842	67,929	1,22,431	36,825	31,853	68,688	35,250	32,046	67,296	157,087	131,833	288,920
	Total population of the province according to the census of 1931 ...	..	..	..	..	..	..	..	..	..	..	..	..	..	603,858	625,146	1,229,004
	Ratio per 1,000 of births for age periods under 1 year and per 1,000 of population for age periods above 1 year	64.65	32.08	67.63	53.00	28.66	81.66	89.83	42.30	38.30	40.35	40.48	38.53	39.63	180.41	158.40	169.70

and rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms No. 602, P.H., dated 30th March 1931)—cont.

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No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1936).

Municipalities.	Mortality under one year among							
	Hindus.		Muhammadans.		Indian Christians.		Others.	
	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.
<i>Anantapur District.</i>								
Anantapur	43	104.36	11	60.44	1	80.91	...	...
Hindapur	64	133.08	19	94.06	1	111.11	...	...
Tadipatri	38	105.56	21	112.90	...	...	...	...
<i>Bellary District.</i>								
Bellary	257	194.99	182	210.39	4	57.97	...	...
Adoni	93	12.83	58	110.68	2	222.22	1	500.00
Hospet	107	150.49	29	134.26	2	333.33	...	...
<i>Chingleput District.</i>								
Conjeevaram	389	161.21	14	198.37	1	32.26	...	...
Saidapet	197	18.73	5	104.17	1	43.48	...	...
Chingleput	110	152.99	3	75.00	3	75.00	...	...
<i>Chittoor District.</i>								
Chittoor	118	148.91	9	89.11	...	...	...	...
Tirupati	107	193.49	7	155.56	...	...	...	...
<i>Coimbatore District.</i>								
Coimbatore	597	178.42	23	111.85	38	107.85	...	...
Erode	125	148.99	16	140.35	10	44.93	...	...
Pollachi	134	183.31	12	146.34	1	55.86	...	...
Dharapuram	83	50.64	18	157.89	3	103.45	...	...
Tiruppur	174	188.31	22	205.61	2	86.96	...	...
Udamalpet	86	170.30	11	132.53	...	...	...	...
<i>Cuddapah District.</i>								
Cuddapah	70	131.83	70	137.80	1	28.57	...	...
Proddatur	62	120.62	20	80.32	6	120.00	...	...
<i>East Godavari District.</i>								
Cocanada	544	290.75	14	122.80	4	90.91	...	...
Rajahmundry	619	282.77	15	156.25	6	88.24	...	...
Peddapuram	99	152.31	5	238.10	2	166.67	...	...

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1936)—cont.

Municipalities.	Mortality under one year among							
	Hindus.		Muhammadans.		Indian Christians.		Others.	
	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.
<i>West Godavari District.</i>								
Ellore	210	106.22	29	103.94	10	97.09	...	...
Palacole	114	234.09	...	...	...	...	...	...
<i>Guntur District.</i>								
Guntur	402	207.22	69	160.09	39	123.42	...	...
Tenali	157	155.75	26	187.05	10	82.64	...	...
Chirala	101	169.75	8	153.85	9	178.46	...	...
Ongole	108	166.13	26	351.85	22	236.56	1	43.48
Narasaraopet	94	236.78	16	164.95	8	190.48	...	...
<i>Kistna District.</i>								
Bezwada	515	254.82	96	259.46	47	200.00	...	...
Masulipatam	530	254.20	98	300.61	10	128.21	...	...
Gudivada	179	271.21	23	353.85	10	222.22	2	333.33
<i>Kurnool District.</i>								
Kurnool	93	111.51	76	94.41	2	46.51	...	...
Nandyal	54	132.03	19	76.61	7	85.37	...	...
<i>Madras District.</i>								
Madras	5,664	221.08	816	244.18	304	194.37	2	200.00
<i>Madura District.</i>								
Madura	1,497	206.54	116	201.04	54	120.00	...	...
Dindigul	236	157.75	28	112.00	50	122.85	...	...
Bodinayakkanur	170	161.75	10	138.89	5	192.31	...	...
Periyakulam	164	201.72	20	180.18	19	267.61	...	...
Palni	142	211.94	6	75.00	3	103.45	...	...
Kodaikanal	9	94.74	2	142.86	37	207.87	13	254.90
<i>Malabar District.</i>								
Calicut	244	95.80	297	153.64	15	64.94	...	...
Palghat	261	160.81	63	169.81	4	108.11	...	...
Cannanore	64	109.78	72	140.35	16	124.03	...	...
Tellicherry	54	94.24	46	100.44	8	140.35	...	...
Cochin	23	115.79	45	212.26	47	103.30	...	...
<i>Nellore District.</i>								
Nellore	417	234.01	118	311.35	24	222.22	...	...

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1936)—cont.

Municipalities.	Mortality under one year among							
	Hindus.		Muhammadans.		Indian Christians.		Others.	
	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.
<i>Nilgiris, The.</i>								
Ootacamund	86	193.26	21	201.68	34	113.33	44	556.96
Coonoor	49	178.18	3	52.63	17	94.42	1	66.67
<i>North Arcot District.</i>								
Vellore	363	158.65	93	160.34	13	110.17	1	500.00
Tiruvannamalai	171	159.22	33	161.76	4	108.11	1	142.86
Gudiyattam	160	167.01	22	106.28	...	...	...	...
Vaniyambadi	49	134.94	71	152.36	2	400.00	...	...
Tirupattur	61	104.10	19	92.68	...	...	...	...
Walajapet	43	141.45	12	193.55	...	...	...	...
<i>Ramnad District.</i>								
Virudhunagar	246	213.36	17	340.00	17	257.59	...	...
Srivilliputtur	147	133.64	...	...	3	63.83	...	...
Karaikudi	88	133.36	4	117.65	1	90.91	...	...
Sivakasi	31	69.35	2	105.26	1	111.11	...	...
Devakottai	52	102.16	5	178.57	...	...	...	...
<i>Salem District.</i>								
Salem	559	168.32	25	95.42	7	175.00	...	...
<i>South Arcot District.</i>								
Cuddalore	300	156.25	23	191.67	4	66.67	41	256.00
Chidambaram	146	182.73	12	164.38	1	125.00	...	...
Villupuram	73	149.28	14	164.71	4	108.11	5	50.00
<i>South Kanara District.</i>								
Mangalore	178	111.95	24	67.56	58	95.24	...	...
Udipi	72	122.66	3	75.00	13	160.49	4	173.91
<i>Tanjore District.</i>								
Tanjore	408	173.91	19	126.00	38	141.26	...	...
Kumbakonam	407	171.01	15	148.51	11	114.58	...	...
Negapatam	162	129.08	83	232.50	10	98.04	...	...
Mayavaram	140	141.84	...	...	4	117.65	...	...
Mannarudi	115	130.68	2	74.07	3	157.89	1	142.86
Tiruvavur	104	191.76	15	211.27	1	200.00	...	...
<i>Tinnevely District.</i>								
Tuticorin	350	229.96	14	130.84	86	147.51	...	...
Tinnevely	393	209.15	40	173.16	4	125.00	...	...
Palamcottah	126	147.71	4	88.89	9	63.18	...	...

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during the year 1937 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1936)—cont.

Municipalities.	Mortality under one year among							
	Hindus.		Muhammadans.		Indian Christians.		Others.	
	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.	No.	Ratio per 1,000 live births.
<i>Trichinopoly District.</i>								
Trichinopoly	641	178.01	125	183.82	77	112.41	...	...
Sriangam	175	208.09	...	...	1	166.67	...	...
Karur	104	156.86	8	129.03	2	125.00	...	...
<i>Vizagapatam District.</i>								
Vizagapatam	555	245.79	10	94.34	5	128.21	...	...
Vizianagram	376	212.19	11	130.95	5	185.19	...	...
Anikapalle	255	266.46	1	76.92	1	333.33	...	...
Chiracole	101	157.57	4	210.53	...	...	...	...
Bimlipatam	88	224.49	2	200.00	3	500.00	...	...
Total	22,984	188.09	3,440	170.13	1,287	134.45	117	193.97

No. V.—Deaths registered according to Classes in the Districts of the Madras Presidency during the year 1937.

Number.	Districts.	Number of deaths registered.									
		Indian Christians.		Muhammadans.		Hindus.		Other classes.			
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
1	Anantapur	41	35	988	959	10,969	10,960	13	13		
2	Bellary	81	88	1,379	1,301	11,068	11,048	78	78		
3	Chingleput	386	348	432	447	20,059	19,167	39	31		
4	Chittoor	77	57	860	874	15,462	15,019	...	...		
5	Coimbatore	461	397	516	597	26,648	25,610	16	17		
6	Cuddapah	438	383	1,279	1,273	9,471	9,205	2	...		
7	Godāvāri, East { Plains.	160	142	339	295	19,328	18,914	8	...		
8	Godāvāri, East { Agency.	51	38	55	44	2,994	2,797	2	...		
9	Godāvāri, West	718	731	263	261	15,762	15,269	11	16		
10	Guntūr	2,810	2,692	2,024	1,714	22,251	21,186	15	15		
11	Kistna	1,316	1,252	1,078	972	15,792	15,492	8	2		
12	Kurnool	920	899	1,848	1,719	11,875	11,604	3	1		
13	Madras	559	565	1,565	1,446	11,005	10,260	2	1		
14	Madura	790	800	1,019	984	24,244	22,892	1	...		
15	Malabar	642	550	1,233	1,164	23,226	22,475	12	...		
16	Nellore	727	700	1,181	1,045	16,707	15,659	1	...		
17	Nilgiris, The	170	158	186	182	1,613	1,424	10	9		
18	North Arcot	407	378	1,418	1,346	24,219	23,810	182	186		
19	Rayachoti	858	829	1,189	1,450	18,927	19,087	1	...		
20	Salem	219	197	557	552	26,309	26,025	4	2		
21	South Arcot	658	592	613	672	25,601	24,814	211	194		
22	South Kanara	1,027	1,003	1,802	1,745	12,420	12,064	123	144		
23	Tanjore	953	909	1,573	1,769	26,013	26,634	8	7		
24	Tinnevely	2,429	2,480	1,338	1,293	21,491	20,876	1	...		
25	Trichinopoly	1,045	1,066	858	868	21,340	21,130	6	2		
	Vizagapatam	98	71	309	313	43,174	42,539	22	22		
	Total, Madras Presidency	18,074	17,475	87,000	85,905	478,496	465,951	779	750		

No. V.—Deaths registered according to Classes in the Districts of the Madras Presidency during the year 1937—cont.

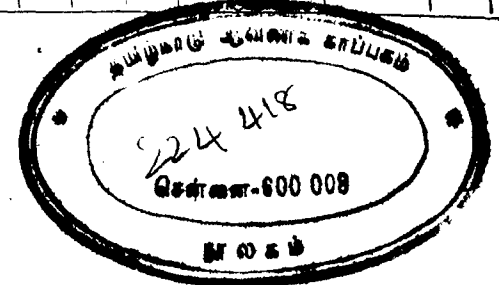
Number.	Districts.	Ratio of deaths per 1,000 of population.									
		Indian Christians.		Muhammadans.		Hindus.		Other classes.			
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
(1)	(2)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
1	Anantapur	13.00	12.23	19.56	19.80	22.62	23.89	20.93	22.99		
2	Bellary	24.18	26.89	25.45	26.22	26.86	26.11	83.51	146.59		
3	Chingleput	20.75	18.88	23.15	25.54	25.20	24.57	48.27	70.23		
4	Chittoor	14.71	10.97	20.62	22.79	22.37	22.58	...	100.00		
5	Coimbatore	19.73	18.23	17.59	22.09	28.82	21.76	117.65	298.25		
6	Cuddapah	23.61	21.40	19.93	21.11	23.61	23.78	41.67	...		
7	Godāvāri, East { Plains.	13.12	11.56	23.88	21.78	24.08	22.92	32.00	67.80		
8	Godāvāri, East { Agency.	23.17	17.68	33.15	29.22	26.22	24.66	0.72	...		
9	Godāvāri, West	24.49	22.79	21.80	20.66	28.21	26.51	91.67	141.59		
10	Guntūr	23.30	28.00	25.27	22.74	26.90	25.62	51.72	127.12		
11	Kistna	26.35	24.49	33.45	31.58	28.65	28.78	27.68	20.00		
12	Kurnool	24.49	24.71	24.71	25.70	29.12	29.21	30.93	62.50		
13	Madras	28.13	28.24	40.82	45.24	40.21	41.62	0.83	1.03		
14	Madura	19.37	18.25	22.67	21.78	24.37	22.30	31.25	...		
15	Malabar	20.54	17.46	21.64	19.59	20.86	18.87	21.14	23.12		
16	Nellore	22.59	22.27	22.73	20.40	25.37	23.81	71.43	333.33		
17	Nilgiris, The	15.08	15.18	27.77	42.71	22.72	23.71	22.57	32.26		
18	North Arcot	19.24	18.25	20.68	19.67	23.35	22.88	37.56	39.00		
19	Ramnad	18.48	16.15	23.78	20.35	24.49	22.04	43.48	90.91		
20	Salem	19.42	17.37	17.36	18.53	22.53	22.61	68.97	50.00		
21	South Arcot	18.47	16.68	15.33	17.89	22.21	21.51	84.31	79.70		
22	South Kanara	17.44	15.91	20.45	18.94	25.14	23.93	27.55	23.49		
23	Tanjore	21.67	21.02	24.50	21.73	26.02	23.92	66.67	333.33		
24	Tinnevely	22.66	20.80	25.04	19.33	26.14	23.78	22.14	31.36		
25	Trichinopoly	21.59	20.40	23.88	23.68	27.90	25.61	2.02	2.32		
	Vizagapatam	16.45	12.80	23.95	24.09	...	...	...	...		
	Total, Madras Presidency	21.45	20.29	22.72	21.46	24.86	23.73	23.80	27.29		

No. VI.--Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Population for which returns were received.	Births.				Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Sui.
			Males.	Females.	Total.	Birth-rate per 1,000 population.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
A.—RURAL DISTRICTS. (Districts exclusive of Municipalities and Rural Towns.)													
1	Anantapur ...	941,432	21,750	21,381	43,131	45.82	92	9	1	6,376	1,462	1,246	36
2	Bellary ...	802,325	18,752	18,110	36,862	45.04	867	27	40	5,774	1,160	1,148	36
3	Chingleput ...	1,388,780	27,379	26,438	53,817	38.75	923	130	...	4,920	2,284	2,591	59
4	Chittoor ...	1,368,384	25,479	24,519	49,998	36.54	506	55	37	8,943	3,618	2,307	70
5	Coimbatore ...	2,169,036	42,423	40,245	82,668	38.17	3,040	154	56	9,720	5,507	6,680	98
6	Cuddapah ...	866,341	17,281	16,447	33,728	38.93	631	28	...	9,637	1,180	884	82
7	Godavari, East. { Plains ...	1,436,979	30,125	28,541	58,666	40.83	23	6	...	12,876	1,434	2,917	34
	Godavari, East. { Agency ...	240,520	4,941	4,626	9,567	39.78	...	8	...	3,857	206	532	8
8	Godavari, West ...	1,061,133	25,241	23,927	49,168	46.34	150	26	...	8,692	1,963	2,543	23
9	Guntur ...	1,757,167	34,201	32,595	66,796	38.01	461	4	...	16,276	3,945	3,801	57
10	Kistna ...	1,070,526	25,563	24,020	49,583	46.31	569	40	...	9,407	2,341	2,574	37
11	Kurnool ...	966,965	21,711	20,918	42,629	44.09	409	53	5	13,856	1,623	1,243	50
12	Madura ...	1,751,927	32,339	30,727	63,066	36.00	609	99	376	6,477	2,676	4,689	40
13	Malabar ...	3,258,377	62,608	59,975	122,583	37.62	132	166	2	16,436	6,391	6,704	138
14	Nellore ...	1,362,556	24,416	22,930	47,346	34.75	790	71	...	9,937	3,408	1,543	56
15	Nilgiris, The ...	111,521	1,984	1,902	3,886	34.85	6	1	20	1,161	317	328	5
16	North Arcot ...	1,928,826	41,580	39,592	81,172	42.08	591	39	3	10,415	4,756	3,709	132
17	Ramnad ...	1,452,508	24,945	23,858	48,803	33.60	1,044	133	...	11,710	1,939	3,819	97
18	Salem ...	2,237,993	42,650	40,974	83,624	37.33	3,081	227	334	14,928	2,757	2,868	119
19	South Arcot ...	2,214,589	40,000	38,348	78,348	35.38	1,151	219	...	8,185	4,002	3,522	74
20	South Kanara ...	1,240,327	23,223	21,945	45,168	36.15	94	20	3	9,797	1,870	1,641	56
21	Tanjore ...	1,993,264	31,927	30,640	62,567	31.39	2,692	160	...	4,589	1,927	1,653	79
22	Tinnevely ...	1,521,053	32,373	31,450	63,823	41.96	210	78	...	6,488	2,063	2,463	29
	Tiruchinopoly ...	1,640,987	30,302	29,458	59,760	36.42	1,888	81	...	6,814	2,824	2,692	83
	Vizagapatam ...	2,949,568	60,429	57,452	117,881	39.97	200	95	...	43,186	4,269	3,334	94
	Total ...	37,739,106	743,520	711,027	1,454,547	38.54	20,168	1,919	877	280,457	67,322	67,436	1,401

Districts and Towns of the Madras Presidency during the year 1937.

Injuries.					Deaths from child births.	All other causes.	Total deaths from all causes.	Ratio of deaths per 1,000 of population.											From all causes.		Number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Babies.	Total.				Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and diarrhoea.	Respiratory dis- eases.	Injuries.	Deaths from child-births.	All other causes.	For the year.	Mean for the previous 6 years.			
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)		
57	169	85	45	392	477	11,737	21,792	0.10	0.01	0.001	6.77	1.55	1.32	0.42	0.51	12.47	23.15	25.36	1		
49	90	30	33	238	235	11,376	20,865	1.08	0.03	0.05	7.20	1.45	1.43	0.30	0.29	14.18	26.01	31.82	2		
38	177	73	49	396	426	22,160	33,830	0.66	0.09	...	3.54	1.64	1.87	0.29	0.31	15.96	24.38	22.50	3		
81	157	79	20	407	399	14,188	30,460	0.37	0.04	0.03	6.54	2.64	1.69	0.30	0.29	10.37	22.26	20.99	4		
112	356	124	29	719	388	20,723	46,987	1.40	0.07	0.03	4.49	2.54	3.08	0.33	0.18	9.57	21.89	20.46	5		
69	121	52	42	316	330	7,060	20,066	0.73	0.03	...	11.12	1.36	1.02	0.36	0.38	8.15	23.16	21.56	6		
47	121	44	29	276	513	14,843	32,887	0.02	0.004	...	8.96	1.00	2.03	0.19	0.36	10.33	22.89	23.39	7		
5	21	15	6	55	91	1,232	5,981	...	0.03	...	16.04	0.86	2.21	0.23	0.38	5.12	24.27	23.39	8		
41	99	72	50	285	467	15,103	29,222	0.14	0.002	...	8.19	1.85	2.40	0.27	0.43	14.23	27.54	25.19	9		
115	158	48	16	394	487	19,647	45,015	0.26	0.02	...	9.26	2.25	2.16	0.22	0.28	11.18	25.82	23.74	10		
44	113	63	50	307	482	14,754	30,474	0.53	0.04	...	8.79	2.17	2.49	0.29	0.45	13.78	28.47	24.04	11		
98	108	94	31	381	314	9,838	27,722	0.42	0.05	0.01	14.33	1.68	1.29	0.39	0.32	10.17	25.67	27.68	12		
76	281	155	15	576	369	21,673	37,544	0.35	0.06	0.21	3.70	1.53	2.68	0.33	0.21	12.37	21.43	22.24	13		
93	490	151	46	918	703	31,777	63,729	0.04	0.05	0.001	5.04	2.11	2.06	0.28	0.22	9.75	19.56	21.67	14		
96	170	73	22	417	323	16,015	32,503	0.58	0.05	...	7.29	2.50	1.13	0.31	0.24	11.76	23.85	22.16	15		
2	9	1	...	17	26	627	2,503	0.05	0.01	0.18	10.41	2.84	2.94	0.15	0.23	5.62	22.44	22.85	16		
132	356	92	40	752	456	22,765	43,486	0.31	0.02	0.002	5.40	2.47	1.92	0.39	0.24	11.80	22.55	22.78	17		
43	107	55	15	257	346	14,558	33,806	0.72	0.09	...	8.06	1.33	2.63	0.02	0.02	10.02	23.27	21.43	18		
121	365	122	30	757	529	23,961	49,442	1.38	0.10	0.15	6.67	1.23	1.28	0.34	0.24	10.71	22.09	19.97	19		
79	204	140	43	540	748	29,486	47,853	0.52	0.10	...	3.70	1.81	1.59	0.24	0.34	13.81	21.61	23.77	20		
47	240	64	25	432	459	13,391	27,077	0.08	0.02	0.002	7.84	1.50	1.31	0.03	0.04	10.70	22.16	22.16	21		
70	203	129	28	509	1,130	34,691	47,241	1.35	0.08	...	2.30	0.97	0.83	0.26	0.57	17.35	23.70	23.96	22		
44	206	63	23	367	493	24,567	37,643	0.14	0.05	...	4.27	1.95	1.62	0.24	0.32	16.15	24.75	25.80	23		
97	218	96	12	506	696	23,242	38,743	1.15	0.05	...	4.15	1.72	1.64	0.31	0.42	14.16	23.61	23.18	24		
85	270	111	29	589	722	25,641	76,036	0.07	0.03	...	14.64	1.45	1.13	0.20	0.24	8.69	26.46	25.79	25		
1,741	4,809	2,033	728	10,802	11,601	444,925	885,507	0.53	0.05	0.02	6.90	1.78	1.79	0.29	0.31	11.79	23.46	24.20	26		



No. VI.—Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Population for which returns were received.	Births.				Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Sui.
			Males.	Females.	Total.	Birth-rate per mille of population.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B.—TOWNS.													
MUNICIPALITIES AND RURAL TOWNS.													
<i>Anantapur.</i>													
1	M.T.C. Anantapur ...	15,099	305	300	605	40.07	...	...	6	57	42	31	...
2	M.T.C. Hindapur ...	14,211	359	334	693	48.77	...	...	...	18	17	106	...
3	M.T.C. Tadipatri ...	12,620	293	257	550	43.58	...	...	...	71	29	28	...
4	T.C. Guntakal ...	15,520	275	322	597	38.28	1	...	...	71	41	30	...
5	T.C. Urvakonda ...	12,979	212	203	415	31.96	4	...	9	66	20	21	...
6	T.C. Gooty ...	9,712	254	214	468	48.19	...	...	3	47	14	63	...
7	T.C. Kadiri ...	9,352	227	212	439	46.34	...	...	...	92	33	20	...
8	T.C. Dharmavaram ...	9,346	224	208	432	46.23	...	...	...	55	7	5	...
9	T.C. Pennakonda ...	5,262	111	108	219	41.62	...	...	...	31	14	4	...
10	T.C. Pamidi ...	5,147	121	114	235	45.66	...	...	...	40	5	6	...
<i>Bellary.</i>													
11	M.T.C. Bellary ...	47,573	1,116	1,041	2,157	45.34	5	1	...	134	182	467	1
12	M.T.C. Adoni ...	35,35	662	624	1,286	36.59	135	...	...	4	76	285	1
13	M.T.C. Hospet ...	21,673	479	454	933	43.05	32	...	...	49	42	131	...
14	T.C. Rayadurg ...	12,007	301	301	602	50.14	1	...	2	126	10	...	...
15	T.C. Yenmiganur ...	10,911	287	37	604	55.36	67	...	...	152	62	34	...
16	T.C. Kosgi ...	10,271	258	254	512	49.85	1	...	...	74	25	36	...
17	T.C. Harpanahalli ...	8,773	168	166	334	38.07	...	...	...	36	19	14	...
18	T.C. Kumbli ...	7,251	149	168	317	36.13	1	...	...	64	5	3	...
19	T.C. Kotturu ...	6,943	138	132	270	38.89	4	...	...	9	4	40	...
20	T.C. Siruguppa ...	5,892	121	92	213	36.15	...	...	...	53	1	2	...
<i>Chingleput.</i>													
21	M.T.C. Conjeevaram ...	65,258	1,301	1,271	2,572	39.41	11	8	...	77	234	476	3
22	M.T.C. Saidapet ...	33,037	582	574	1,156	34.99	8	19	...	79	99	164	3
23	M.T.C. Chingleput ...	14,357	404	395	799	55.65	1	...	...	31	60	85	1
24	T.C. Sembiam ...	33,127	408	437	845	25.51	80	1	...	295	132	106	1
25	T.C. Poomalallee ...	20,340	466	405	865	42.53	40	...	...	110	56	55	...
26	T.C. Uthiramerur ...	11,711	263	206	468	39.11	...	6	...	67	19	44	...
27	T.C. Pallavaram ...	10,769	211	213	424	39.37	1	...	...	61	30	38	...
28	T.C. Tiruvottiyur ...	10,732	190	173	363	33.82	9	...	...	168	26	7	...
29	T.C. Tiruvallur ...	10,656	228	218	446	41.85	...	...	...	55	23	22	...
30	T.C. Alandur ...	9,985	201	176	377	37.76	...	...	...	76	31	18	...
31	T.C. Tirukkalkkanram ...	8,623	173	155	328	38.05	...	...	...	44	29	52	...
32	T.C. St. Thomas Mount ...	7,934	42	54	96	12.07	...	...	...	24	10	1	...
33	T.C. Madurantakam ...	7,952	216	194	410	51.56	34	...	...	31	24	4	...
34	T.C. Sriperumbudur ...	6,478	136	117	253	39.06	2	1	...	18	5	8	...
35	T.C. Cheyyar ...	6,378	135	160	305	47.82	3	1	...	64	18	22	...
36	T.C. Arani ...	5,298	90	90	180	33.96	21	...	...	42	6	31	...
<i>Chittoor.</i>													
37	M.T.C. Chittoor ...	22,018	448	451	899	40.83	27	...	...	33	23	65	4
38	M.T.C. Tirupati ...	19,138	269	336	605	31.61	4	10	...	83	75	72	2
39	T.C. Kalahasti ...	13,152	157	140	297	22.62	16	16	...	129	15	18	1
40	T.C. Madanapalle ...	9,459	268	219	487	51.49	...	...	...	51	28	52	...
41	T.C. Punganur ...	8,331	155	166	321	38.32	...	...	...	51	43	6	...
42	T.C. Tiruttani ...	6,405	117	96	213	33.26	2	...	...	42	28	3	1
<i>Coimbatore.</i>													
43	M.T.C. Coimbatore ...	95,198	1,985	1,920	3,905	41.02	51	2	...	155	300	508	4
44	M.T.C. Erode ...	33,672	532	489	1,021	30.32	...	25	...	102	58	84	3
45	M.T.C. Pollachi ...	22,112	430	401	831	37.58	17	...	...	165	65	85	1
46	M.T.C. Dharmaparam ...	18,218	367	327	694	38.09	3	...	...	15	93	92	2
47	M.T.C. Tirupur ...	18,059	516	538	1,054	58.36	2	2	...	51	98	131	5
48	M.T.C. Udumalpet ...	12,184	301	299	600	49.24	...	...	...	20	30	47	2
49	T.C. Gobichettipalayam ...	16,304	284	260	543	33.92	17	...	...	52	30	12	2
50	T.C. Kollegal ...	13,849	259	235	494	35.67	78	...	...	85	10	36	...
51	T.C. Kurichi ...	12,825	217	167	384	29.94	23	...	...	32	21	22	...

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Ratio of deaths per 1,000 of population.																	From all causes.		Number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.	Deaths from child births.	All other causes.	Total deaths from all causes.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory disease.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous years.						
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)					
...	9	2	...	11	6	156	309	...	...	0.40	3.78	2.78	2.05	0.73	0.40	10.33	20.47	21.80	1					
...	...	...	...	6	...	138	202	...	...	...	1.27	1.20	7.46	0.42	0.49	9.71	20.51	23.31	2					
...	...	...	...	9	...	96	242	...	...	...	5.63	2.30	2.22	0.71	0.71	7.61	19.18	20.05	3					
...	...	...	...	6	...	137	291	0.06	...	...	4.55	2.62	1.92	0.38	0.32	8.77	18.63	25.20	4					
...	...	...	...	7	...	103	218	0.33	...	0.75	5.46	2.40	1.74	0.75	0.58	8.53	20.53	23.84	5					
...	...	...	...	3	...	5	180	...	...	0.31	4.44	1.44	0.49	0.31	0.51	4.43	18.53	22.96	6					
...	...	...	...	2	...	4	66	...	...	...	9.83	3.53	2.14	0.21	0.43	7.06	23.20	24.30	7					
...	...	...	...	2	...	10	149	...	...	...	5.88	0.75	0.53	0.21	1.07	15.94	24.38	23.66	8					
...	...	...	...	...	...	2	45	...	...	...	5.80	2.60	0.76	...	...	8.55	17.86	26.34	9					
...	...	...	...	...	...	31	81	...	...	...	7.77	0.97	1.17	...	0.39	6.02	16.32	20.21	10					
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
1	25	2	...	20	33	765	1,616	0.11	0.02	...	2.82	3.83	9.82	0.61	0.69	16.08	33.97	36.48	11					
1	12	...	...	14	18	337	869	3.79	...	...	0.11	2.13	8.00	0.39	0.51	9.46	24.36	21.57	12					
...	7	1	...	8	7	328	597	1.48	...	...	2.26	1.94	6.64	0.37	0.32	15.13	27.55	28.34	13					
...	...	...	...	...	6	143	292	0.08	...	0.1	10.49	0.83	0.33	...	0.50	11.91	24.32	23.79	14					
...	...	...	...	...	6	201	531	6.14	...	...	13.93	5.68	3.12	0.64	0.73	18.42	48.67	32.94	15					
...	...	...	...	...	6	186	328	0.10	...	...	7.20	2.43	3.51	...	0.58	18.11	31.93	32.65	16					
...	...	...	...	...	2	80	151	...	...	...	4.10	2.17	1.60	...	0.23	9.12	17.21	26.10	17					
...	...	...	...	...	1	121	200	0.11	...	...	7.30	0.57	0.34	0.11	0.57	13.79	22.80	26.48	18					
1	...	...	...	1	1	102	161	0.38	...	...	1.30	0.58	5.76	0.14	0.14	14.70	23.19	33.93	19					
1	...	1	...	2	...	46	104	...	...	...	9.60	0.17	0.84	0.34	...	7.81	17.65	24.81	20					
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
2	24	2	...	33	43	847	1,729	0.17	0.13	...	1.18	3.56	7.29	0.51	0.67	12.98	26.49	26.14	21					
...	5	4	...	14	2	386	771	0.24	0.53	...	2.39	3.09	4.16	0.42	0.06	11.88	23.54	23.66	22					
1	21	2	...	29	30	246	485	0.07	...	...	2.37	4.18	5.92	2.02	2.09	17.13	33.78	30.83	23					
...	8	...	...	10	8	1,056	2,41	0.03	...	...	8.61	3.08	3.26	0.20	0.24	12.80	31.98	24.34	24					
...	2	...	...	4	8	249	572	1.97	...	...	5.41	2.75	2.70	0.20	0.39	14.70	28.12	22.53	25					
...	1	...	...	2	4	199	391	...	0.51	...	4.87	1.02	3.76	0.17	0.34	17.00	28.26	20.82	26					
1	5	1	...	8	5	149	273	0.09	...	...	5.66	2.79	2.60	0.74	0.46	13.00	25.35	19.00	27					
...	1	...	...	1	1	177	329	0.84	...	...	10.66	2.42	0.85	0.09	0.09	16.49	30.66	23.24	28					
...	1	...	...	1	1	180	282	...	...	...	5.16	2.16	2.06	0.09	0.09	16.90	26.46	28.88	29					
1	...	...	...	2	2	108	287	...	...	...	7.61	3.10	1.80	0.20	0.20	10.82	23.74	21.87	30					
...	...	...	...	...	6	69	199	...	...	...	5.10	8.36	6.03	...	0.58	8.00	23.07	22.26	31					
...	...	...	...	...	28	63	...	...	...	...	3.02	1.26	0.13	...	...	5.52	7.92	15.16	32					
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No. VI.—Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Popula- tion for which returns were received.	Births.			Birth-rate per mille of popula- tion.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Suicides.
			Males.	Females.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B.—TOWNS—cont.													
MUNICIPALITIES AND RURAL TOWNS—cont.													
Coimbatore—cont.													
52	T.C. Mettupalaiyam ...	11,475	291	248	539	46.97	65	...	1	99	37	71	...
53	T.C. Kottur ...	8,555	198	171	369	38.62	...	...	...	44	18	36	...
54	T.C. Palladam ...	6,947	140	124	264	37.78	8	...	...	35	9	14	1
55	T.C. Bhavani ...	6,986	176	152	328	46.95	6	2	...	25	13	57	...
Cuddapah.													
56	M.T.C. Cuddapah ...	22,602	542	532	1,074	47.52	10	...	...	102	47	91	...
57	M.T.C. Proddatur ...	20,124	454	357	811	40.30	8	...	...	69	35	64	...
58	T.C. Jammalamadugu ...	15,944	386	332	718	45.03	2	...	...	220	7	8	1
59	T.C. Rayachoti ...	7,025	176	161	337	47.97	3	...	...	52	20	3	...
60	T.C. Vempalli ...	6,284	149	127	276	43.92	...	...	...	61	24	33	1
61	T.C. Kamalapuram ...	5,809	137	119	255	44.07	3	...	...	50	18	11	...
62	T.C. Badvel ...	5,239	130	116	246	46.96	...	...	...	31	...	18	...
Godavari, East (Plains).													
63	M.T.C. Cocanada ...	65,952	1,039	990	2,029	30.76	...	...	...	341	206	234	2
64	M.T.C. Rajahmundry...	63,526	1,231	1,123	2,353	37.01	1	4	...	320	180	214	4
65	M.T.C. Peddapuram ...	17,338	347	343	690	39.39	1	...	...	120	18	31	...
66	T.C. Samalkot ...	18,001	343	301	644	35.78	...	...	...	225	21	33	1
67	T.C. Pithapuram ...	16,151	251	235	486	30.09	...	...	...	95	11	30	...
68	T.C. Amalapuram ...	15,213	344	273	607	39.90	2	...	...	127	26	34	...
69	T.C. Tuni ...	11,567	221	206	427	36.92	...	...	...	153	19	42	...
70	T.C. Mundapeta ...	11,531	222	213	435	37.72	...	...	...	59	23	28	...
71	T.C. Dowlaishwaram ...	9,733	133	163	296	30.41	...	...	...	61	...	9	...
72	T.C. Ramachandra- puram.	7,720	157	160	317	41.06	...	...	...	54	18	41	1
73	T.C. Bikkavolu ...	5,604	92	97	189	33.73	...	...	...	49	10	14	...
Godavari, West.													
74	M.T.C. Ellore ...	57,342	1,190	1,169	2,359	41.14	1	...	...	237	140	186	1
75	M.T.C. Palacole ...	16,906	266	221	487	28.81	...	...	...	48	40	39	...
76	T.C. Penukonda ...	15,619	322	330	652	41.74	...	...	...	132	20	54	1
77	T.C. Narasapur ...	13,961	300	275	575	41.19	...	...	...	52	18	51	...
78	T.C. Attili ...	12,830	294	259	553	42.77	1	2	...	176	7	21	...
79	T.C. Tanuku ...	10,881	263	251	514	47.24	...	25	...	70	19	19	...
80	T.C. Achanta ...	9,959	188	161	349	35.04	...	...	...	45	2	5	...
81	T.C. Bhimavaram ...	9,339	207	177	384	40.93	...	...	...	60	12	47	...
82	T.C. Nidadavolu ...	7,822	122	131	253	32.34	...	...	...	24	21	4	...
83	T.C. Kovvur ...	6,619	106	107	213	32.18	...	...	...	28	9	6	1
Guntur.													
84	M.T.C. Guntur ...	65,179	1,419	1,289	2,698	41.24	290	...	...	349	249	199	9
85	M.T.C. Tenali ...	31,580	666	602	1,268	36.68	1	...	...	104	47	63	2
86	M.T.C. Chirala ...	18,853	363	319	682	37.77	3	...	...	109	41	32	...
87	M.T.C. Ongole ...	16,672	409	401	810	48.58	1	...	...	95	141	123	...
88	M.T.C. Narasaraopet ...	15,403	289	247	536	34.80	...	...	...	109	95	11	1
89	T.C. Bapatla ...	13,343	215	211	426	31.93	...	...	...	32	5	1	...
90	T.C. Vetapalem ...	11,102	181	210	391	35.22	1	...	...	87	29	20	1
91	T.C. Ponnur ...	11,101	205	198	403	36.30	...	...	...	103	20	37	...
92	T.C. Mangalagiri ...	10,372	204	170	374	34.09	3	...	...	94	37	29	...
93	T.C. Chebrolu ...	10,576	206	187	393	37.16	8	...	...	109	26	68	...
94	T.C. Addanki ...	9,150	160	168	318	34.75	9	...	...	87	70	54	1
95	T.C. Vinukonda ...	7,711	153	134	287	37.22	...	...	...	79	66	48	1

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Ratio of deaths per 1,000 of population.															From all causes.		Number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.	Deaths from child births.	All other causes.	Total deaths from all causes.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.				
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)			
...	5	1	...	6	3	103	385	5.66	...	0.09	8.63	3.22	6.19	0.52	0.26	8.98	33.55	31.20	52			
...	2	...	...	2	3	101	204	...	...	...	4.60	1.88	3.77	0.21	0.31	10.57	21.35	28.87	53			
...	1	...	...	1	3	54	126	1.14	...	...	5.01	1.29	2.00	0.43	0.43	7.73	18.03	19.00	54			
...	2	...	...	2	6	130	241	0.86	0.29	...	3.58	1.66	8.16	0.29	0.86	18.61	34.60	23.41	55			
1	21	4	...	26	20	299	595	0.44	...	...	4.51	2.09	4.03	1.15	0.88	13.23	26.38	25.73	56			
...	13	1	2	16	9	195	346	0.40	...	...	2.93	1.74	3.18	0.80	0.45	9.69	19.18	23.02	57			
...	4	1	...	8	5	140	390	0.13	...	...	13.80	0.44	0.50	0.50	0.31	8.78	24.46	22.00	58			
...	1	1	...	2	6	130	216	0.43	...	...	7.40	2.85	0.13	0.28	0.85	18.51	30.75	23.63	59			
...	...	...	...	1	1	53	163	...	...	...	8.12	3.82	5.25	0.16	0.16	8.43	15.94	21.07	60			
...	1	...	...	1	...	50	133	0.52	...	...	8.61	3.10	1.89	0.17	...	8.61	22.90	19.31	61			
1	...	...	...	1	2	55	107	...	...	...	5.92	...	3.44	0.19	0.38	10.60	20.42	22.26	62			
3	19	...	4	28	22	1,179	2,010	...	...	...	5.17	3.12	3.55	0.42	0.33	17.88	30.48	25.30	63			
4	20	...	1	29	41	1,078	1,867	0.02	0.06	...	5.04	2.83	3.37	0.46	0.65	16.97	29.39	28.68	64			
1	2	1	...	2	10	178	362	0.05	...	...	6.92	1.04	1.79	0.23	0.58	10.27	20.88	18.33	65			
...	2	...	...	2	9	101	394	...	...	...	12.50	1.17	1.83	0.28	0.50	5.61	21.89	17.31	66			
...	3	...	...	3	7	141	288	...	...	...	5.88	0.68	1.86	0.25	0.43	8.73	17.83	24.14	67			
1	3	...	2	4	5	173	393	0.13	...	...	8.35	1.71	3.65	0.39	0.33	11.37	25.83	22.24	68			
...	3	...	...	6	5	140	262	...	...	...	13.23	1.64	3.63	0.09	0.17	2.51	21.27	22.22	69			
1	4	...	1	7	2	29	240	...	...	...	5.12	1.99	2.43	0.61	0.43	12.14	22.72	23.51	70			
2	...	...	...	...	1	73	144	...	...	...	6.27	...	0.12	...	0.10	7.50	14.80	18.33	71			
...	5	...	...	6	8	68	220	...	...	...	10.88	2.33	5.31	0.78	1.04	8.16	28.50	23.26	72			
...	...	...	...	...	1	43	117	...	...	...	8.74	1.78	2.50	...	0.13	7.67	20.68	21.61	73			
2	9	1	2	15	20	676	1,225	0.02	...	...	4.13	2.44	2.37	0.26	0.36	11.79	21.36	19.72	74			
...	1	...	...	1	13	222	363	...	...	...	2.84	2.37	2.31	0.06	0.77	13.13	21.47	18.96	75			
...	6	...	...	6	6	227	448	...	...	...	8.45	1.28	3.46	0.58	0.38	14.53	28.68	29.68	76			
...	2	...	...	2	4	257	384	...	...	...	3.72	1.29	3.65	0.14	0.29	18.41	27.51	27.77	77			
...	1	...	...	1	2	179	392	0.08	0.15	...	13.61	0.54	1.62	0.31	0.15	13.84	30.32	27.55	78			
...	1	...	...	1	2	187	324	...	...	...	6.43	1.75	1.75	0.18	0.18	17.19	29.78	26.59	79			
...	1	...	...	1	2	173	324	...	...	...	4.62	0.20	0.50	...	0.50	14.06	19.78	20.80	80			
...	1	...	...	1	5	93	219	...	...	...	6.10	1.23	4.78	0.10	0.61	9.45	22.26	20.58	81			
...	1	...	...	1	5	90	174	...	...	...	6.90	2.08	0.51	...	0.64	11.51	22.24	20.38	82			
...	1	...	...	1	2	86	133	...	...	...	4.23	1.26	0.91	0.30	0.30	12.99	20.09	21.02	83			
4	36	1	1	51	66	938	2,142	1.45	...	...	5.35	3.82	3.05	0.78	1.01	14.39	32.86	26.85	84			
...	7	...	...	7	11	446	684	0.03	...	...	3.01	1.36	1.62	0.85	0.32	12.90	19.78	16.21	85			
...	4	...	...	5	14	236	440	0.16	...	...	5.78	2.17	1.70	0.27	0.74	12.52	23.33	21.73	86			
...	15	...	...	15	22	239	641	0.06	...	...	5.70	8.46	7.08	0.90	1.82	14.34	35.44	32.39	87			
...	7	...	...	8	13	124	360	...	...	...	7.08	6.17	0.71	0.52	0.84	8.05	23.37	25.49	88			
...	...	...	...	...	6	227	271	...	...	...	2.40	0.37	0.07	...	0.45	17.01	20.31	20.41	89			
...	...	...	...	...	7	155	301	0.09	...	...	7.84	2.61	1.80	0.18	0.63	13.96	27.11	25.58	90			
...	1	...	...	1	10	132	302	...	...	...	9.28	1.80	3.33	0.09	0.90	11.89	27.29	18.62	91			
...	1	...	...	5	7	88	263	0.27	...	...	8.67	3.37	2.64	0.43	0.64	8.02	23.47	23.22	92			
...	...	...	...	5	3	65	284	0.76	...	...	10.30	2.46	6.43	0.47	0.28	6.16	26.85	24.36	93			
...	2	...	...	5	1	48	274	0.98	...	...	9.51	7.05	5.90	0.55	0.11	5.25	29.96	24.18	94			
...	4	...	...	6	1	79	279	...	...	...	10.25	8.56	6.22	0.73	0.13	10.25	36.18	23.19	95			

No. VI.—Births and Deaths registered from Different Causes in the Districts

Number.	Districts and towns.	Population for which returns were received.	Births.			Birth-rate per mille of population.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Males.
			Males.	Females.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B.—TOWNS—cont.													
MUNICIPALITIES AND RURAL TOWNS—cont.													
Guntur—cont.													
96	T.C. Sattenapalle ...	7,484	177	144	321	2'89	4	...	...	67	56	38	...
97	T.C. Kotturu ...	7,448	143	129	272	6'52	...	...	...	49	...	...	...
98	T.C. Kollipara ...	7,413	142	127	269	30'29	...	...	...	73	6	66	...
99	T.C. Allara-Kotapatnam ...	7,393	171	157	328	44'37	...	...	...	71	21	34	...
100	T.C. Repalle ...	7,132	166	150	316	44'31	7	...	...	62	31	9	...
101	T.C. Chilakurpet ...	5,964	160	88	248	32'06	1	...	...	5	12	10	...
102	T.C. Gurzala ...	5,582	126	114	240	43'37	1	...	...	28	10	...	...
103	T.C. Bhattiprola ...	5,407	148	131	279	51'60	...	...	...	76	6	34	...
Kistna.													
104	M.T.C. Bezavada ...	60,427	1,279	1,347	2,626	43'46	3	...	...	353	94	253	...
105	M.T.C. Masulipatam ...	59,929	1,261	1,224	2,485	41'53	9	...	...	200	169	202	...
106	M.T.C. Gulivada ...	30,188	395	381	776	38'44	21	...	...	107	85	52	...
107	T.C. Nazvid ...	12,094	242	232	474	39'19	...	...	...	58	13	...	...
108	T.C. Jagayyapeta ...	8,669	134	118	252	29'07	29	...	...	100	11	6	...
109	T.C. Vallura ...	7,789	150	128	278	35'69	3	...	...	79	18	8	...
110	T.C. Pelana ...	7,352	187	166	353	48'01	3	...	...	49	25	...	...
111	T.C. Vayyura ...	6,952	200	190	390	55'86	1	...	...	26	16	9	...
Kurnool.													
112	M.T.C. Kurnool ...	35,314	837	845	1,682	47'63	...	...	...	99	105	183	...
113	M.T.C. Nandyal ...	22,608	332	358	740	32'73	1	...	...	85	52	122	...
Madras.													
114	M.T.C. Madras ...	632,992	15,720	14,819	30,539	48'25	229	196	...	2,195	2,107	7,831	13
Madura.													
115	M.T.C. Madura ...	182,918	4,153	4,120	8,273	45'46	92	...	...	385	743	2,163	5
116	M.T.C. Dindigul ...	43,617	1,101	1,052	2,153	49'36	17	...	...	111	120	73	...
117	M.T.C. Bodinayakanur ...	27,036	580	569	1,149	42'50	...	...	...	43	49	97	...
118	M.T.C. Periyakulam ...	23,004	400	505	905	43'25	...	...	...	45	106	143	...
119	M.T.C. Palni ...	18,899	394	385	779	41'22	...	...	...	82	88	232	...
120	M.T.C. Kodaikanal ...	6,523	177	161	338	51'82	...	...	...	3	10	78	...
121	T.C. Kambari ...	18,814	364	387	751	39'35	...	...	...	6	81	49	...
122	T.C. Gudalur ...	17,612	450	429	879	49'91	...	...	...	...	...	...	...
123	T.C. Tevarai ...	13,619	356	290	646	47'43	12	...	...	...	...	...	...
124	T.C. Chinnai anur ...	13,265	290	255	545	41'09	...	...	...	118	80	56	...
125	T.C. Tirumangalam ...	10,475	183	197	380	36'28	39	...	...	33	47	90	...
126	T.C. Uttamangalam ...	9,828	224	197	421	42'54	...	...	...	143	40	43	...
127	T.C. Alhamburam ...	9,678	200	188	388	40'09	...	...	...	20	43	18	...
128	T.C. Sholavandan ...	9,098	165	164	329	36'18	...	...	...	27	49	18	...
129	T.C. Usilampatti ...	8,705	188	182	370	42'50	...	...	...	26	3	13	...
130	T.C. Kombai ...	8,519	176	175	351	41'20	...	...	...	38	16	8	...
131	T.C. Melur ...	8,116	119	114	233	28'71	...	...	...	38	29	9	...
132	T.C. Nattam ...	7,799	129	122	251	32'42	...	...	...	38	21	6	...
133	T.C. Tirupparankundram ...	5,749	94	83	177	30'79	5	...	...	29	15	29	...
Malabar.													
134	M.T.C. Calicut ...	90,273	2,403	2,243	4,646	46'80	...	2	2	142	205	591	5
135	M.T.C. Palghat ...	40,064	1,011	1,017	2,031	41'39	1	4	...	119	101	178	...
136	M.T.C. Cannanore ...	34,236	585	639	1,224	35'75	...	...	...	82	40	162	...
137	M.T.C. Tellicherry ...	30,349	589	439	1,028	33'55	...	...	...	74	46	142	...
138	M.T.C. Cochin ...	22,818	430	426	856	37'51	...	...	...	60	102	157	...
139	T.C. Ponnani ...	16,210	371	356	727	44'85	...	...	...	58	46	13	...
140	T.C. Badamra ...	11,359	220	206	426	37'84	...	...	...	78	26	66	...
141	T.C. Tazur ...	9,217	253	209	462	50'12	...	...	...	55	24	16	...

and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Ratio of deaths per 1,000 of population.																		
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.	Deaths from child births.	All other causes.	Total deaths from all causes.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.	Number.				
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)				
1	1	...	...	2	5	101	274	0'53	...	...	8'95	7'48	5'08	0'27	0'67	13'50	36'18	29'13	96				
...	1	...	...	2	...	17	134	...	...	...	6'58	...	8'86	0'27	...	2'28	17'59	17'16	97				
...	1	...	...	2	1	40	168	...	...	...	9'85	0'81	6'21	0'27	0'13	5'39	22'66	21'50	98				
...	4	...	...	4	4	58	192	...	...	...	9'60	2'84	4'60	0'54	0'54	7'85	25'97	22'26	99				
...	...	...	...	...	2	81	192	0'08	...	...	8'63	4'35	1'26	...	0'28	11'36	26'02	24'28	100				
...	...	...	...	...	4	131	163	0'17	...	...	0'55	2'05	1'71	...	0'68	2'34	27'80	32'57	101				
...	2	...	...	4	3	149	186	0'18	...	...	5'02	1'79	...	0'72	0'64	25'08	33'32	30'35	102				
...	2	...	...	2	1	53	172	...	...	...	14'06	1'11	6'20	0'37	0'18	9'80	31'81	26'67	103				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
...	25	2	1	28	51	1,329	2,111	0'05	...	...	5'84	1'56	4'19	0'44	0'84	21'69	34'93	31'01	104				
...	13	...	...	18	29	1,022	1,650	0'15	0'02	...	3'34	2'82	3'37	0'39	0'48	17'05	27'53	24'81	105				
...	6	1	1	10	15	269	529	1'04	...	...	5'34	2'72	2'58	0'50	0'74	13'32	26'29	27'91	106				
...	1	...	...	1	7	191	295	...	...	...	4'80	1'07	2'07	0'08	0'58	15'79	24'39	24'36	107				
...	1	...	...	3	5	114	267	3'35	...	...	11'54	1'27	0'58	0'35	0'58	13'15	30'80	25'12	108				
...	1	...	...	4	1	24	137	0'30	...	...	19'11	2'31	1'03	0'51	0'13	3'08	17'59	26'03	109				
...	2	...	...	3	1	139	267	0'41	...	...	6'66	6'66	3'13	0'41	0'14	18'91	36'32	24'40	110				
...	2	...	...	2	4	124	182	0'11	...	...	3'72	2'29	1'29	0'29	0'57	17'76	26'07	18'90	111				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
...	11	1	...	13	13	418	831	...	...	...	2'80	2'97	5'18	0'37	0'37	11'84	23'53	26'43	112				
...	6	2	...	8	9	139	416	0'04	...	...	3'76	2'30	5'40	0'36	0'40	6'15	18'40	23'69	113				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
...	143	4	...	176	289	12,386	25,403	...	...	...	...	...	...	...	...	...	40'13	37'18	114				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
...	97	2	6	120	94	2,815	6,412	0'51	...	...	2'12	4'08	11'88	0'66	0'52	15'47	35'23	36'65	115				
...	32	...	...	32	16	799	1,178	0'39	0'11	...	2'54	2'75	1'67	0'73	0'37	18'32	26'80	25'01	116				
...	2	1	...	7	3	331	610	...	...	...	1'59	1'81	3'59	0'26	0'11	12'24	22'56	25'86	117				
...	9	...	...	12	7	347	660	...	...	...	1'96	4'61	6'22	0'52	0'30	15'08	28'69	28'70	118				
...	11	...	...	11	15	191	557	...	...	...	4'34	4'55	12'28	0'58	0'79	6'93	29'47	28'67	119				
...	2	...	...	2	2	50	145	...	...	...	0'46	1'53	11'96	0'31	0'31	7'67	22'22	23'24	120				
...	...	...	...	...	...	319	518	...	0'32	4'30	2'60	2'87	0'48	...	...	16'98	27'49	23'28	121				
...	...	...	...	...	...	221	454	...	...	...	5'05	4'54	3'18	0'28	0'17	12'55	25'78	27'35	122				
...	...	...	...	...	...	135	407	0'88	...	...	8'09	3'45	6'61	0'22	0'15	9'91	29'88	27'31	123				
...	...	...	...	...	...	172	346	...	...	...	2'49	7'31	2'94	0'15	0'22	12'97	26'08	26'23	124				
...	...	...	...	...	...	72	341	3'72	...	...	13'65	3'82	4'10	...	0'38	6'87	33'55	26'69	125				
...	...	...	...	...	...	2	145	264	...	...	2'04	6'61	2'54	0'71	0'20	14'75	26'86	29'06	126				
...	...	...	...	...	...	88	187	0'10	...	...	2'79	5'06	1'86	...	...	9'09	15'32	23'04	127				
...	...	...	...	...	...	5	167	266	...	...	5'91	2'53	1'43	0'44	0'55	17'20	28'14	28'91	128				
...	...	...	...	...	...	4	138	179	...	...	2'99	0'34	0'46	0'46	0'46	15'85	20'56	19'81	129				
...	...	...	...	...	...	1	132	215	...	...	6'81	1'88	0'94	...	0'12	15'49	25'21	23'57	130				
...	...	...	...	...	...	80	162	...	...	...	4'08	3'57	1'11	0'74	...	9'86	19'95	22'08	131				
...	...	...	...	...	...	3	85	157	...	...	4'88	2'70	0'77	0'51	0'39	10'91	20'15	23'95	132				
...	...	...	...	...	...	71	153	0'87	...	...	5'34	2'61	5'04	0'17	0'52	12'35	26'61	23'30	133				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
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...	...	...																					

No. VI.—Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Population for which returns were received.	Births.				Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Males.	Females.
			Males.	Females.	Total.	Birth-rate per mille of population.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
B.—TOWNS—cont.														
Municipalities and Rural Towns—cont.														
Nellore.														
142	M.T.C. Nellore ...	45,895	1,161	1,088	2,269	49.44	25	3	...	250	150	218	...	...
143	T.C. Venkatagiri ...	15,372	249	225	474	30.84	17	...	...	75	29	21	...	...
144	T.C. Alluru ...	10,694	120	118	238	22.26	...	...	...	55	23	15	...	...
145	T.C. Kavali ...	10,522	155	175	330	31.36	...	...	...	48	28	11	...	...
146	T.C. Gudur ...	10,451	191	155	346	33.11	2	6	...	54	20	10	...	...
147	T.C. Kovvur ...	9,162	148	147	295	32.20	...	...	...	45	18	25	...	...
148	T.C. Kandukur ...	8,115	161	152	313	38.57	...	...	...	47	8	1	...	...
149	T.C. Nayudupet ...	7,369	154	117	271	36.78	...	...	...	51	15	15	...	...
150	T.C. Kanigiri ...	6,450	129	116	245	38.05	...	...	...	28	38	18	...	...
Nilgiris, The.														
151	M.T.C. Ootacamund ...	24,613	556	487	1,043	42.37	2	...	41	17	52	200	3	...
152	M.T.C. Coonoor ...	14,326	254	261	515	36.16	1	...	11	20	30	97	...	...
153	T.C. Kotagiri ...	8,017	126	133	259	32.31	...	2	...	46	22	64	...	...
154	T.C. Wellington ...	5,976	86	103	189	31.63	...	...	3	42	14	...	...	...
North Arcot.														
155	M.T.C. Vellore ...	57,265	1,521	1,466	2,987	52.16	1	...	...	87	252	381	7	...
156	M.T.C. Tiruvannamalai ...	27,769	694	628	1,322	47.61	26	26	...	93	197	169	1	...
157	M.T.C. Gudiattam ...	24,088	607	584	1,191	47.43	2	...	...	41	68	125	...	...
158	M.T.C. Vaniyambadi ...	22,940	410	424	834	36.36	1	...	4	32	28	88	2	...
159	M.T.C. Tirupattur ...	18,299	446	363	799	43.66	1	...	...	38	25	96	...	...
160	M.T.C. Walajpet ...	11,262	201	165	366	32.67	...	...	...	19	64	53	1	...
161	T.C. Ambur ...	24,217	548	489	1,037	42.82	...	...	...	64	18	46	...	...
162	T.C. Arni ...	17,446	375	372	747	42.82	7	...	...	124	55	68	2	...
163	T.C. Arcot ...	14,232	256	264	520	36.54	15	...	...	38	32	18	...	...
164	T.C. Arkonam ...	12,115	227	190	417	34.42	7	...	...	51	3	18	...	...
165	T.C. Tiruvattur ...	12,042	213	258	471	39.94	...	...	...	104	61	4	...	...
166	T.C. Polur ...	11,626	273	240	513	44.13	4	...	...	47	41	27	...	...
167	T.C. Ranipettai ...	11,583	306	262	568	49.04	8	...	...	80	32	34	2	...
168	T.C. Vishanur ...	9,441	183	175	358	37.13	3	...	...	72	11	8	...	...
169	T.C. Pernambattu ...	8,835	263	265	528	59.76	12	...	...	28	8	5	...	...
170	T.C. Sholinghur ...	8,692	216	220	436	50.16	...	...	...	31	1	16	...	...
171	T.C. Pallikonda ...	8,291	199	173	372	44.87	3	...	...	70	14	27	...	...
172	T.C. Wandiwash ...	8,042	147	145	292	36.31	...	...	...	68	37	7	...	...
173	T.C. Kalambar ...	7,964	222	217	439	55.12	...	1	...	60	67	16	...	...
174	T.C. Chetput ...	7,797	124	143	267	34.24	...	...	...	34	56	3	...	...
175	T.C. Kaveripakkam ...	6,651	123	123	246	36.99	...	...	...	11	16	15	...	...
176	T.C. Panapakkam ...	5,681	114	87	201	35.38	22	2	...	18	1	1	...	...
Ramnad.														
177	M.T.C. Virudhunagar ...	33,081	637	632	1,269	38.36	1	...	...	55	104	194	...	...
178	M.T.C. Srivilliputtur ...	32,385	604	556	1,160	35.83	5	...	...	21	98	137	...	...
179	M.T.C. Karakkudi ...	21,472	327	354	681	31.42	1	...	...	62	63	115	...	...
180	M.T.C. Sivakasi ...	15,212	229	246	475	31.23	...	...	...	51	41	36	...	...
181	T.C. Devakottai ...	20,393	290	257	547	26.83	...	...	...	164	46	24	...	...
182	T.C. Rajapalayam ...	38,683	835	780	1,615	41.82	3	...	...	242	210	44	...	...
183	T.C. Aruppukottai ...	33,848	567	508	1,075	31.76	3	1	...	270	104	52	...	...
184	T.C. Ramnad ...	16,817	256	240	496	29.49	14	...	...	54	27	9	...	...
185	T.C. Paramagudi ...	16,113	222	235	457	28.37	47	...	...	94	41	1	...	...
186	T.C. Ilaiyagudi ...	12,209	211	173	384	31.45	9	1	...	85	25	7	...	...
187	T.C. Sivacanga ...	11,923	145	170	315	27.83	3	...	...	48	21	7	...	...
188	T.C. Tirupattur ...	10,644	145	120	265	24.91	...	1	...	83	9	46	...	...
189	T.C. Abiramam ...	9,594	163	148	311	32.42	36	...	...	40	23	13	...	...
190	T.C. Kamudi ...	9,225	104	126	230	24.92	...	...	...	41	5	11	...	...
191	T.C. Watrap ...	9,123	186	154	340	37.27	...	4	...	31	28	9	...	...
192	T.C. Sattur ...	8,772	143	127	270	30.78	33	...	...	77	...	5	...	...
193	T.C. Rameswaram ...	8,423	142	157	299	36.50	...	...	...	49	42	22	...	...
194	T.C. Seittur ...	8,199	323	286	609	74.28	...	...	...	95	40	7	...	...
195	T.C. Manamadurai ...	7,788	97	122	219	28.12	7	...	...	46	8	19	...	...
196	T.C. Tirappuvanam ...	7,397	121	108	229	31.00	18	...	...	74	36	26	...	...

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Ratio of deaths per 1,000 of population.															From all causes.			Number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.	Deaths from child births.	All other causes.	Total deaths from all causes.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.					
(16)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)				
2	21	5	...	28	57	1,237	1,968	0.54	0.07	...	5.45	3.27	4.75	0.61	1.24	20.95	42.88	38.13	142				
...	2	...	...	2	6	153	313	1.11	...	...	4.88	1.89	1.37	0.13	0.39	10.61	20.36	18.36	143				
...	...	...	...	1	3	73	170	...	...	...	5.14	2.15	1.40	0.09	0.28	8.83	15.90	17.14	144				
...	2	...	...	4	5	103	190	...	...	...	4.56	2.19	1.95	0.10	0.38	9.79	18.06	16.65	145				
4	2	...	...	9	1	106	212	0.19	0.57	...	5.17	1.91	0.66	0.86	0.48	10.14	20.29	22.73	146				
...	...	...	...	4	2	92	186	...	...	...	4.91	1.96	2.73	0.44	0.22	10.04	20.30	14.91	147				
...	2	...	...	3	4	127	187	...	...	...	5.79	0.99	0.12	0.37	0.12	15.65	23.64	21.67	148				
...	1	...	...	4	1	113	202	...	...	...	6.92	2.04	2.04	0.54	0.54	15.33	27.41	21.17	149				
...	4	...	...	5	1	60	150	...	...	...	5.14	6.97	3.30	0.92	0.18	11.01	27.62	24.70	150				
2	8	...	...	13	7	328	660	0.08	...	1.67	0.69	2.11	8.12	0.53	0.28	13.32	26.81	25.36	151				
2	8	...	1	11	10	152	322	0.07	...	0.77	1.40	2.09	6.77	0.77	0.70	10.61	23.17	21.41	152				
...	2	...	...	3	...	12	140	...	0.25	...	5.74	2.74	7.98	0.37	...	1.59	18.59	18.04	153				
...	...	...	...	...	...	50	108	...	...	0.33	7.08	2.34	...	...	...	8.37	18.07	15.15	154				
3	33	...	...	43	42	975	1,762	0.02	...	...	1.52	4.49	6.30	0.76	0.73	17.04	30.77	32.82	155				
3	21	1	...	26	21	433	931	0.94	0.94	...	1.19	7.09	6.03	0.94	0.76	15.59	35.53	27.20	156				
1	9	...	...	10	17	401	664	0.08	...	...	1.06	2.75	5.06	0.41	0.69	16.24	26.90	21.91	157				
...	2	...	...	4	16	263	436	0.04	...	0.17	1.39	1.22	3.84	0.17	0.70	11.46	19.01	21.78	158				
...	6	...	1	7	14	192	374	0.06	...	0.06	2.08	1.37	5.25	0.38	0.77	10.19	20.44	20.62	159				
...	8	...	...	8	5	95	234	...	...	...	1.70	4.82	4.73	0.71	0.45	8.48	20.69	20.16	160				
3	4	...	...	9	4	313	454	...	...	...	2.64	0.74	1.90	0.37	0.17	12.32	18.75	24.64	161				
...	4	...	1	6	4	194	460	0.40	...	...	7.11	3.15	3.90	0.34	0.34	11.12	26.37	26.62	162				
...	3	...	...	3	1	135	242	1.05	...	...	2.67	2.25	1.26	0.21	0.07	9.49	17.00	19.90	163				
...	2	...	...	2	8	194	269	0.58	...	...	4.21	0.25	0.33	0.17	0.66	16.01	22.20	18.87	164				
...	...	...	...	...	3	192	387	...	...	...	8.64	5.07	2.24	...	0.25	15.94	32.14	26.90	165				
1	5	...	1	8	4	149	280	0.34	...	...	4.04	3.53	2.32	0.69	0.34	12.82	24.78	25.44	166				
3	3	1	1	7	9	147	317	0.69	...	...	6.91	2.76	2.24	0.60	0.78	12.69	27.37	27.67	167				
...	4	...	...	4	4	123	224	0.31	...	...	7.47	1.14	0.83	0.41	0.41	12.85	23.23	24.71	168				
...	3	...	...	3	1	107	164	1.36	...	...	3.17	0.91	0.57	0.34	0.11	12.11	18.58	16.99	169				
...	3	1	...	6	1	95	150	...	...	...	3.57	0.12	1.84	0.69	0.12	10.93	17.26	25.40	170				
...	...	...	...	...	2	95	211	0.36	...	...	8.44	1.69	3.26	...	0.24	11.46	25.45	28.17	171				
...	...	...	...	...	2	120	224	...	...	...	7.21	4.60	0.87	...	0.25	14.92	27.84	17.78	172				
...	...	...	1	2	5	111	252	...	0.13	...	7.53	7.16	2.01	0.25	0.63	13.94	31.64	25.56	173				
...	3	...	...	3	1	64	161	...	...	...	4.36	7.18	0.38	0.38	0.13	8.21	20.65	17.16	174				
...	...	...	...	...	3	102	148	...	...	...	1.65	2.41	2.26	0.15	0.46	15.34	22.25	27.66	175				
...	...	...	...	...	...	72	116	3.87	0.35	...	3.17	0.13	0.18	...	...	12.67	20.42	23.66	176				
...	11	...	...	11	18	524	997	0.03	...	...	1.66	5.86	5.86	0.33	0.54	15.84	30.14	25.77	177				
...	13	1	2	16	15	402	694	0.15	...	...	0.65	3.03	4.23	0.49	0.46	12.41	21.43	26.16	178				
...	8	1	...	9	8	177	440	0.05	...	...	2.86	3.14	5.31	0.42	0.37	8.17	20.36	22.55	179				
2	1	1	...	6	5	90	229	...	...	...	3.35	2.70	2.37	0.39	0.35	5.91	15.06	20.00	180				
...	9	...	...	10	7	186	379	...	0.10	...	5.10	2.26	1.18	0.49	0.34	9.12	18.59	12.44	181				
...	21	1	1	23	13	384	826	...	...	...	6.25	5.43	1.14	0.59	0.34	10.13	23.93	24.12	182				
...	7	...	...	7	16	213	666	0.09	0.03	...	7.98	3.07	1.64	0.21	0.47	6.29	19.68	21.87	183				
...	1	...	...	1	8	182	245	9.88	...	...	3.21	1.61	0.54	0.06	0.48	7.85	14.57	15.24	184				
...	...	...	...	...	6	204	303	2.92	...	...	5.83	2.54	0.06	...	0.37	12.66	24.39	21.25	185				
...	...	...	...	...	6	72	204	0.74	...	...	6.96	2.05	0.57	...	0.49	5.91	16.71	15.65	186				
4	...	...	...	5	2	55	180	0.26	...	...	4.24	4.06	1.85	0.44	0.18	4.86	15.04	23.97	187				
...	3	...	...	...	2	202	248	...	...	...	7.80	0.85	5.26	0.22	0.19	4.60	18.98	21.33	188				
...	...	...	...	...	7	129	248	3.75	...	...	4.17	2.40	1.36	...	0.73	13.45	25.65	22.20	189				
1	...	...	...	1	3	62	123	...	...	...	4.44	0.54	1.19	0.11	0.33	6.71	13.33	17.01	190				
...	...	...	...	2	1	149	225	...	0.44	...	3.40	3.07	0.99	0.11	0.33	16.33	21.66	27.25	191				
...	2	...	...	...	1	105	223	3.76	...	...	8.78	...	0.57	0.23	0.11	11.97	25.42	28.11	192				
...	...	...	...	...	8	127	243	...	...	...	5.82	4.99	2.61	...	0.36	15.08	23.85	33.16	193				
2	1	...	...	5	6	126	279	...	...	...	11.50	4.88	0.85	0.61	0.73	15.37	34.03	37.99	194				
...	...	...	...	...	1	60	137	0.80	...	...	5.78	0.64	2.44	...	0.13	7.70	17.59	19.65	195				
...	1	...	...	1	4	43	202	2.44	...	...	10.02	4.87	3.52	0.14	0.54	5.82	27.35	22.30	196				

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Ratio of deaths per 1,000 of population.																		
cides.	Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.	Deaths from child births.	All other causes.	Total deaths all causes.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.	Number.			
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)				
...	...	1	...	...	1	3	74	120	...	...	...	5.41	0.44	0.29	0.15	0.44	10.82	17.55	14.77	191			
...	...	1	...	...	1	1	38	90	...	...	...	2.82	2.38	2.23	3.15	0.15	5.64	13.37	20.00	194			
...	...	1	...	...	2	1	56	103	...	...	...	3.90	1.05	1.65	0.30	0.15	8.39	15.44	13.43	190			
...	...	2	...	...	3	9	48	366	24.03	...	...	11.25	7.60	3.65	0.46	1.37	7.70	55.66	33.76	206			
...	...	...	...	...	...	3	89	168	...	...	...	9.28	3.20	0.16	...	...	14.24	26.89	21.49	207			
...	...	...	...	...	3	3	22	129	0.86	...	...	3.95	3.43	9.91	...	0.51	3.77	22.13	21.65	201			
...	...	...	...	...	2	3	77	97	0.71	...	...	1.41	0.53	...	0.35	6.53	13.59	17.12	17.95	202			
...	...	...	...	...	3	3	59	148	0.54	...	...	8.66	4.51	1.26	0.54	0.54	10.61	26.70	31.87	204			
...	...	8	...	...	8	...	1	80	...	...	...	3.02	2.65	7.37	1.51	0.38	0.19	15.11	15.76	208			
...	...	3	66	6	2	39	1,214	2,593	1.49	0.02	...	3.31	3.25	4.28	0.78	0.37	11.88	25.36	23.64	206			
...	...	2	2	...	2	1	75	234	0.67	...	...	5.67	2.70	1.18	0.13	0.07	5.06	12.79	18.63	207			
...	...	2	1	...	5	7	200	375	0.90	...	...	5.90	1.66	2.77	0.36	0.48	13.85	25.97	17.95	208			
...	...	2	2	...	4	4	130	225	0.16	...	...	3.94	2.65	1.63	0.39	0.31	10.12	18.26	16.71	208			
...	...	1	4	...	7	2	114	278	0.24	0.38	...	8.52	1.79	1.95	0.57	0.16	9.25	22.56	18.87	210			
...	...	3	...	...	4	3	86	237	3.16	...	...	6.75	1.11	1.28	0.34	0.26	7.35	20.26	18.36	211			
...	...	...	...	...	1	2	144	222	2.31	0.09	...	2.76	1.24	0.27	0.09	0.18	12.80	19.73	15.69	211			
...	...	...	...	...	...	...	57	126	0.97	0.32	...	4.51	0.64	0.97	...	...	6.13	13.54	19.71	213			
...	...	1	...	...	1	2	99	123	...	...	...	1.98	0.66	0.82	0.16	0.33	16.31	20.26	25.43	214			
...	...	27	5	...	36	44	709	1,410	0.75	0.03	...	2.79	3.91	3.03	0.61	0.75	12.01	23.88	27.42	216			
...	...	10	...	...	11	13	449	678	0.32	...	...	2.23	2.31	3.31	0.44	0.52	17.90	27.03	27.37	216			
...	...	1	...	...	1	21	186	396	0.15	0.05	...	2.68	2.78	3.68	0.05	1.04	9.24	19.68	21.14	217			
...	...	1	1	...	4	5	231	395	...	0.16	...	2.49	1.33	1.06	0.21	0.27	12.25	17.77	19.92	218			
...	...	2	...	...	1	8	62	249	0.29	...	...	7.46	3.30	0.43	0.36	0.57	4.44	17.85	22.25	218			
...	...	...	1	...	1	11	174	305	0.67	0.36	...	5.38	1.16	1.67	0.07	0.80	12.64	22.16	19.70	219			
...	...	9	...	...	10	9	65	285	1.31	...	...	7.37	2.85	3.14	0.73	0.66	4.75	20.81	26.65	221			
...	...	2	...	...	3	8	167	268	0.07	...	...	4.47	1.27	0.89	0.22	0.60	12.43	19.95	19.98	222			
...	...	1	...	...	2	4	152	230	0.99	...	...	2.74	2.85	1.32	0.22	0.44	16.69	25.25	22.30	222			
...	...	1	...	...	2	4	99	167	2.11	0.22	...	2.11	2.55	0.11	0.11	0.33	10.98	18.52	20.30	223			
...	...	1	...	...	1	3	135	286	6.22	1.13	...	4.86	1.13	3.28	0.11	0.34	15.26	32.33	22.96	224			
...	...	...	...	...	...	11	60	156	0.27	...	...	8.24	0.80	1.99	...	1.46	7.98	30.74	24.92	224			
...	...	...	...	...	1	7	43	123	0.56	...	...	7.15	1.40	0.98	0.14	0.98	6.03	17.25	17.50	225			
...	...	...	...	...	2	6	97	211	...	...	...	7.66	3.26	4.11	0.28	0.85	13.76	29.92	28.46	226			
...	...	2	...	...	2	3	98	163	5.96	0.32	...	3.41	0.64	0.32	0.32	0.48	15.77	20.24	23.34	226			
...	...	...	...	...	2	2	69	140	0.32	...	...	4.87	3.89	1.78	0.32	0.32	11.19	22.71	26.11	230			
...	...	2	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
...	...	35	...	...	41	35	751	1,515	0.38	...	...	2.52	1.68	5.78	0.61	0.52	11.25	22.69	18.00	231			
...	...	11	...	...	15	6	173	354	0.06	...	...	3.25	2.32	3.71	0.87	0.35	10.03	20.52	22.78	231			
...	...	1	...	...	1	1	129	191	...	...	...	3.98	1.09	1.75	0.44	0.11	14.07	20.83	18.75	233			
...	...	...	...	...	...	...	88	172	...	...	...	5.60	0.90	2.80	0.11	...	9.86	19.28	17.72	234			
...	...	4	...	...	4	...	74	138	...	...	...	5.50	1.02	1.16	0.51	...	9.43	17.64	22.08	236			
...	...	3	...	...	4	1	75	155	...	...	...	6.80	0.83	2.78	0.56	0.14	10.41	21.51	21.29	238			
...	...	3	...	...	5	8	67	126	...	...	...	5.45	1.27	2.54	0.91	0.54	12.17	22.89	19.44	237			
...	...	6	8	4	67	61	1,334	2,169	0.45	0.21	...	3.60	2.74	3.57	1.00	0.91	19.94	32.43	33.64	238			
...	...	27	3	35	33	31	1,282	1,838	0.51	...	...	3.19	1.41	2.71	0.56	0.53	20.57	29.49	27.90	236			
...	...	17	2	1	34	14	765	1,293	0.49	...	...	2.53	2.88	3.83	0.43	0.70	15.76	26.65	20.56	240			
...	...	2	4	21	15	470	470	0.28	0.50	...	...	2.04	2.35	5.43	0.44	0.47	14.74	25.96	25.33	241			
...	...	16	1	...	19	15	375	564	0.40	...	...	1.80	1.76	2.66	0.83	0.66	16.47	24.78	26.29	242			
...	...	4	...	...	5	7	296	509	0.83	...	...	1.82	2.85	4.37	0.25	0.34	14.53	24.54	23.51	243			
...	...	1	2	1	9	20	263	354	0.13	...	...	1.93	1.33	0.53	0.80	1.33	17.49	23.69	23.61	243			
...	...	4	...	...	1	8	227	341	1.64	1.01	...	3.59	1.09	0.86	0.60	0.62	17.72	24.62	24.05	244			
...	...	1	...	...	8	7	249	334	0.16	0.16	...	3.20	1.09	0.86	0.63	0.55	19.40	26.67	23.29	245			
...	...	3	2	2	1	5	168	246	0.55	...	...	4.55	0.68	0.31	0.24	0.39	17.72	26.10	25.15	246			
...	...	1	...	...	3	6	136	237	0.73	...	...	5.28	1.09	1.27	0.27	0.15	12.38	21.58	20.03	247			
...	...	3	...	...	3	5	152	260	...	...	...	3.30	4.04	0.28	0.64	0.73	13.95	22.95	24.86	248			
...	...	2	1	7	8	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...			

No. VI.—Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Popula- tion for which returns were received.	Births.				Cholera.	Smallpox.	Plague.	Fevers.	Dysentery and diarrhoea.	Respiratory diseases.	Suicides.
			Males.	Females.	Total.	Birth-rate per mille of popula- tion.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B.—TOWNS—cont.													
MUNICIPALITIES AND RURAL TOWNS—cont.													
Tanjore—cont.													
250	T.C. Ayyampettai ...	10,163	110	132	242	23.81	35	...	...	48	26	4	...
251	T.C. Vallam ...	8,534	142	124	266	31.17	37	...	...	33	27	12	1
252	T.C. Tiruvadi ...	7,741	121	117	238	30.75	9	...	...	63	4	3	...
253	T.C. Tirutturaipundi ...	7,351	126	108	234	31.83	13	...	...	30	13	12	1
254	T.C. Muttupet ...	6,980	101	79	180	25.79	2	...	...	31	2	...	...
255	T.C. Tirukkattappalli ...	6,496	127	137	264	41.21	13	1	...	40	12	5	...
256	T.C. Kuttalam ...	6,367	84	105	193	30.31	6	...	...	51	2	4	...
257	T.C. Vaidiswarankovil ...	5,372	83	93	176	32.76	8	...	...	21	6	5	...
258	T.C. Valangimam ...	5,227	61	74	135	25.83	4	...	...	12	10	5	...
Tinnevely.													
259	M.T.C. Tuticorin ...	60,395	1,132	1,080	2,212	36.63	7	...	...	137	206	373	1
260	M.T.C. Tinnevely ...	57,078	1,103	1,039	2,142	37.53	...	6	...	76	160	356	2
261	M.T.C. Palamcottah ...	27,912	537	493	1,030	36.90	2	...	...	39	47	112	...
262	T.C. Tenkasi ...	27,338	481	469	950	34.75	...	...	...	46	23	4	...
263	T.C. Kadavanallur ...	23,819	614	570	1,184	49.71	...	...	...	64	31	20	2
264	T.C. Poliyangudi ...	21,173	515	501	1,016	47.96	...	...	...	181	101	27	...
265	T.C. Viravanallur ...	17,682	356	368	724	40.95	3	...	...	11	45	35	...
266	T.C. Kallidaikuruchi ...	17,074	356	322	678	39.72	...	...	...	6	12	3	...
267	T.C. Surandai ...	15,728	355	371	726	46.15	...	...	...	181	29	13	1
268	T.C. Ambasamudram ...	15,602	267	263	530	33.92	1	...	...	63	32	12	...
269	T.C. Tiruchendur ...	15,328	184	151	335	21.85	...	...	...	86	12	15	1
270	T.C. Sankarankoyil ...	14,823	288	251	539	36.36	...	...	...	49	59	16	...
271	T.C. Sivagiri ...	12,746	292	229	521	40.88	...	...	...	111	...	15	1
272	T.C. Udangudi ...	12,397	184	205	389	31.38	...	...	...	102	9	5	...
273	T.C. Vasudevannallur ...	11,904	287	255	542	45.53	...	...	...	68	6	1	...
274	T.C. Sermadevi ...	11,301	188	174	362	32.03	...	...	...	10	4	18	1
275	T.C. Kulasekara- pattinam ...	11,114	154	179	333	29.96	...	...	...	64	2	10	1
276	T.C. Kovilpatti ...	10,589	228	206	434	40.99	1	2	...	49	20	15	...
277	T.C. Srivaidikuntam ...	10,074	141	126	267	26.50	...	...	...	9	2	2	...
278	T.C. Kadayan ...	9,807	203	209	412	42.01	...	...	...	10	2	1	...
279	T.C. Nanguneri ...	9,547	222	202	424	44.41	...	1	...	21	3	5	1
280	T.C. Tichanallur ...	9,488	195	161	356	37.86	...	...	...	20	10	3	...
281	T.C. Ettaiyapuram ...	9,150	189	164	353	38.58	...	...	...	31	23	15	...
282	T.C. Kayalpatnam ...	8,676	162	159	321	37.00	...	...	...	122	26	20	...
283	T.C. Vikramasinga- puram ...	8,514	198	204	402	47.22	...	...	...	41	2	25	...
284	T.C. Vadakku Valliyur ...	8,086	195	176	371	45.88	...	...	...	77	...	13	...
285	T.C. Sattanukulam ...	7,690	163	159	322	41.87	...	...	...	28	14	7	...
286	T.C. Pattamadai ...	7,283	154	115	269	36.94	...	...	...	6	2	4	...
287	T.C. Alwathirunagari ...	6,345	103	116	219	34.52	6	...	...	62	9	5	...
288	T.C. Nazareth ...	6,216	163	126	289	46.49	...	...	...	51	10	25	1
289	T.C. Kalugumalai ...	5,459	150	119	269	49.28	...	...	...	59	8	14	...
290	T.C. Kayattar ...	5,143	113	118	231	44.92	...	...	...	46	21	12	...
291	T.C. Eral ...	5,044	73	81	154	29.94	...	...	...	49	15	13	...
Trichinopoly.													
292	M.T.C. Trichinopoly ...	142,843	2,573	2,393	4,966	34.77	75	29	...	94	350	1,049	3
293	M.T.C. Srirangam ...	21,663	420	428	848	34.38	31	...	...	56	100	124	3
294	M.T.C. Karur ...	19,850	392	379	771	37.33	8	...	...	124	42	41	...
295	T.C. Golden Rock ...	13,937	255	250	514	36.88	4	...	...	93	50	17	...
296	T.C. Turaiyur ...	13,901	281	273	554	40.14	28	2	...	120	73	39	...
297	T.C. Laigudi ...	9,378	152	167	319	34.02	25	2	...	53	26	10	1
298	T.C. Ariyalur ...	8,808	190	178	368	41.78	2	...	...	28	30	7	...
299	T.C. Pallapatti ...	8,320	186	211	397	47.72	8	...	1	40	27	43	...
300	T.C. Kulittalai ...	8,157	173	135	307	37.64	10	...	...	12	6	9	...
301	T.C. Udaiyarpalayam ...	7,377	158	149	307	41.62	2	...	...	23	17	29	1
302	T.C. Jayankonda- sholapuram ...	6,843	120	121	241	35.22	2	...	...	23	8	9	...
303	T.C. Manachanallur ...	6,303	89	91	180	28.56	9	...	...	45	8	9	...

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Deaths from child births.	All other causes.	Total deaths from all causes.	Ratio of deaths per 1,000 of population.										From all causes.		Number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.				Cholera.	Smallpox.	Plague.	Fevers.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.		
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	
...	...	...	...	3	8	141	265	3.44	...	...	4.72	2.58	0.39	0.30	0.79	13.87	26.07	22.41	250	
...	3	...	...	...	5	194	310	4.34	...	...	3.87	3.16	1.41	0.23	0.59	22.73	36.33	30.07	251	
...	...	...	...	...	1	124	204	1.16	...	...	8.14	0.52	0.39	...	0.13	16.02	26.35	21.44	252	
...	3	...	...	4	2	121	195	1.77	...	...	4.08	1.77	1.63	0.54	0.27	16.46	26.55	26.44	253	
...	...	...	...	...	5	126	166	0.29	...	...	4.44	0.29	...	...	0.72	18.06	23.78	28.49	254	
...	...	...	...	...	6	119	196	2.03	0.16	...	6.24	1.87	0.78	...	0.94	18.58	36.60	28.13	255	
...	1	...	...	1	3	104	171	0.94	...	...	8.01	0.31	0.63	0.16	0.47	18.33	26.86	19.88	256	
...	1	...	...	...	3	94	141	1.49	...	...	4.47	1.12	0.93	0.19	0.56	17.50	28.25	26.66	257	
...	1	...	1	2	3	61	97	0.77	...	...	2.30	1.91	0.96	0.38	0.57	11.67	18.66	24.41	258	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	16	1	...	18	28	1,029	1,858	0.12	...	...	3.26	3.41	0.18	0.30	0.46	17.04	30.76	28.99	259	
...	13	...	...	18	25	777	1,418	...	0.11	...	1.33	2.80	6.24	0.32	0.44	13.61	24.84	29.75	260	
...	4	...	...	7	31	366	594	0.07	...	...	1.40	1.68	4.01	0.25	1.11	12.76	21.28	24.18	261	
...	...	1	...	4	12	381	470	...	...	...	1.68	0.84	0.15	0.15	0.44	13.94	17.19	23.68	262	
...	2	...	...	3	6	280	404	...	...	...	2.69	1.30	0.84	0.13	0.26	11.76	16.96	25.70	263	
...	1	...	...	5	6	271	591	...	...	...	8.55	4.77	1.28	0.24	0.28	12.80	27.92	26.29	264	
...	1	...	...	1	12	432	539	0.17	...	...	0.62	2.54	1.98	0.66	0.68	24.43	30.49	33.75	265	
...	1	...	...	...	7	437	466	...	...	...	0.35	0.70	0.18	0.66	0.41	25.69	27.30	28.21	266	
...	5	...	...	8	5	151	387	...	...	...	11.51	1.84	0.83	0.51	0.32	9.60	24.60	24.54	267	
...	6	...	...	1	8	259	383	0.06	...	...	4.04	2.05	0.77	0.51	0.51	16.00	24.55	27.99	268	
...	1	...	...	6	3	150	272	...	...	...	5.61	0.78	0.98	0.36	0.20	9.79	17.74	17.31	269	
...	1	...	...	...	1	165	290	...	...	...	3.31	3.98	1.08	...	0.07	11.13	19.56	25.21	270	
...	...	...	...	2	1	156	285	...	...	...	8.71	...	1.17	0.16	0.08	12.24	22.36	28.28	271	
...	...	...	...	...	2	161	279	...	...	...	8.23	0.73	0.40	...	0.16	12.99	22.51	19.38	272	
...	...	...	...	...	6	204	285	...	...	...	5.71	0.50	0.08	...	0.05	17.14	23.04	24.81	273	
...	...	...	...	...	1	223	267	...	...	...	0.88	0.35	1.59	0.09	0.09	19.72	22.74	27.80	274	
...	1	...	...	2	3	218	299	...	...	...	5.76	0.18	0.90	0.18	0.27	19.61	26.90	22.76	275	
...	2	9	1	12	3	138	240	0.09	0.19	...	4.63	1.89	1.42	1.13	0.28	13.03	22.66	25.88	276	
...	...	...	...	1	3	169	186	...	...	...	0.89	0.20	0.20	0.10	0.30	14.78	18.46	26.78	277	
...	...	...	...	1	7	212	233	...	...	...	1.02	0.20	0.10	0.10	0.71	21.63	23.76	22.21	278	
...	2	...	...	2	5	180	227	...	0.10	...	3.25	0.31	0.52	0.21	0.52	16.85	23.78	24.16	279	
...	2	...	...	1	3	4	175	215	...	...	2.11	1.05	0.32	0.32	0.43	18.45	22.67	27.92	280	
...	4	...	...	2	2	130	203	...	...	...	8.39	2.51	1.64	0.22	0.22	14.21	22.19	25.25	281	
...	...	2	...	2	14	90	276	...	...	...	14.06	3.00	2.31	0.46	1.61	10.37	31.81	29.50	282	
...	...	...	...	...	5	202	280	...	...	...	5.17	0.23	2.94	0.28	0.59	23.75	32.89	36.83	283	
...	1	...	...	1	4	101	196	...	...	...	9.52	...	1.61	0.12	0.49	12.49	24.24	24.09	284	
...	...	...	...	...	6	129	179	...	...	...	3.04	1.82	0.91	...	0.13	16.78	23.28	27.88	285	
...	...	...	...	...	6	148	166	...	...	...	0.82	0.27	0.55	...	0.82	20.32	32.79	29.19	286	
...	...	...	...	...	6	110	199	0.95	...	...	9.77	1.42	0.79	0.16	0.95	17.34	31.36	33.22	287	
...	1	...	...	1	3	72	162	...	...	...	8.20	1.61	4.02	0.16	0.48	11.58	26.06	23.42	288	
...	3	...	...	3	4	86	174	...	...	...	10.81	1.47	2.56	0.55	0.75	15.75	31.67	25.46	289	
...	2	...	...	3	...	45	127	...	...	...	8.94	4.08	2.33	0.58	...	8.75	24.89	24.11	290	
...	...	...	...	...	...	48	126	...	...	...	9.53	2.92	2.53	...	0.19	9.33	24.50	28.03	291	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	40	3	1	57	69	2,413	4,136	0.53	0.20	...	0.66	2.45	7.34	0.40	0.48	16.89	28.95	27.61	292	
...	11	1	1	18	9	463	801	1.26	...	...	2.27	4.05	5.03	0.73	0.36	18.77	32.48	30.04	293	
...	3	...	...	4	6	289	514	0.40	...	...	6.25	2.12	2.07	0.20	0.30	14.56	26.59	24.85	294	
...	2	...	...	7	123	268	0.29	0.14	...	...	6.67	3.59	1.22	0.14	0.50	8.83	21.88	19.49	295	
...	1	3	1	5	5	168	440	2.03	0.14	...	8.70	5.29	2.83	0.36	0.36	12.17	31.95	25.81	296	
...	2	...	...	4	5	166	289	2.67	...	...	5.65	2.77	1.07	0.43	0.53	17.70	30.82	26.94	297	
...	1	...	...	1	5	127	201	0.23	...	...	3.18	3.41	0.79	0.23	0.57	14.42	32.82	22.68	298	
...	...	...	...	...	5	108	227	0.36	...	0.12	4.81	3.25	5.17	...	0.60	12.98	27.28	25.26	299	
...	3	...	...	3	3	149	192	1.23	...	...	1.47	0.23	1.10	0.37	0.37	18.27	23.54	33.96	300	
...	1	1	...	3	8	125	207	0.37	...	...	3.12	3.30	3.93	0.41	1.08	16.94	28.36	29.56	301	
...	1	...	...	1	6	74	123	0.29	...	...	3.36	1.17	1.32	0.15	0.58	10.81	17.97	22.53	302	
...	2	1	...	3	2	66	142	1.43	...	...	7.14	1.27	1.43	0.48	0.32	10.47	22.53	27.17	303	

No. VI.—Births and Deaths registered from Different Causes in the

Number.	Districts and towns.	Population for which returns were received.	Births.			Birth-rate per mille of population.	Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Suicide.
			Males.	Females.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
B.—TOWNS—cont.													
MUNICIPALITIES AND RURAL TOWNS—cont.													
<i>Vizagapatam.</i>													
304	M.T.C. Vizagapatam ...	57,303	1,258	1,145	2,403	41.93	...	...	...	199	237	251	5
305	M.T.C. Vizianagram ...	44,696	950	933	1,883	42.18	...	...	...	95	207	164	2
306	M.T.C. Anakapalle ...	23,376	489	484	973	41.62	...	...	...	72	119	216	1
307	M.T.C. Chicacole ...	16,588	364	303	667	40.21	...	...	...	46	151	64	1
308	M.T.C. Binulipatam ...	9,629	212	196	408	42.37	...	...	...	31	50	37	...
309	T.C. Bobbili ...	20,544	380	344	724	35.24	...	...	...	178	35	54	...
310	T.C. Saluru ...	17,899	370	375	745	41.62	...	...	...	175	10	5	1
311	T.C. Parvatipuram ...	17,434	339	327	666	38.20	...	...	...	286	32	6	...
312	T.C. Narasipatam ...	11,005	296	303	599	54.77	...	...	...	99	7	7	1
313	T.C. Yellamanchilli ...	11,763	169	163	332	28.65	...	...	...	99	33	31	2
314	T.C. Palkonda ...	11,102	209	222	431	38.82	...	...	...	109	33	6	1
315	T.C. Ichchapuram ...	10,313	167	166	333	32.29	...	...	...	166	33	24	...
316	T.C. Tekkali ...	8,675	182	169	351	40.46	...	...	...	75	18	20	...
317	T.C. Sompeta ...	8,086	126	140	266	32.90	...	...	...	52	38	12	...
318	T.C. Srungavarapu-kota.	7,330	140	103	243	33.15	...	...	...	29	39	32	...
319	T.C. Viraghattam ...	6,757	175	149	324	47.95	...	...	...	33	34	20	...
320	T.C. Narasannapeta ...	6,700	147	133	280	41.79	...	...	...	57	24	6	1
321	T.C. Chodavaram ...	6,624	193	161	354	53.44	...	...	...	80	6	5	...
322	T.C. Mudugula ...	6,346	124	113	237	37.35	...	...	...	35	7	4	...
323	T.C. Chinnamerangi ...	5,770	153	132	285	49.39	...	...	...	72	12	21	...
324	T.C. Rajam ...	5,374	103	87	190	35.36	...	...	...	76	10	7	...
Total, town circles * ...			6,207,854	126,720	120,395	247,115	39.81	3,139	527	250	26,237	16,954	228
Total, rural districts...			37,738,106	743,520	711,027	1,451,547	38.54	20,168	1,919	877	260,457	67,322	1,491
Total, Madras Presidency ...			43,946,960	870,240	831,422	1,701,662	38.72	23,307	2,446	1,127	286,694	84,276	1,719

* Town circles include municipalities and

Districts and Towns of the Madras Presidency during the year 1937—cont.

Injuries.					Deaths from child births.	All other causes.	Total deaths from all causes.	Ratio of deaths per 1,000 of population.														From all causes.		Serial number.
Females.	Wounds and accidents.	Snake-bite and killed by wild beasts.	Rabies.	Total.				Cholera.	Smallpox.	Plague.	Fever.	Dysentery and diarrhoea.	Respiratory diseases.	Injuries.	Deaths from child births.	All other causes.	For the year.	Mean for the previous 5 years.						
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)					
3	34	...	2	44	23	1,104	1,858	...	...	...	3.47	4.14	4.38	0.77	0.49	19.27	33.42	32.00	304					
...	12	...	3	17	17	765	1,285	...	...	...	2.13	4.63	3.67	0.38	0.38	17.56	28.76	27.39	305					
...	5	...	1	16	15	280	718	...	...	...	3.08	5.09	9.24	0.68	0.64	11.98	50.72	25.79	306					
...	3	...	...	6	8	113	389	...	0.06	...	2.77	9.10	3.86	0.36	0.18	6.81	23.45	19.82	307					
...	...	...	...	...	...	140	262	...	...	...	2.22	5.18	3.84	0.10	0.31	14.54	27.21	22.56	308					
...	...	...	...	...	...	127	410	0.10	...	...	8.66	1.70	2.63	0.19	0.49	6.18	19.96	20.02	309					
...	...	...	...	...	...	243	604	1.56	...	...	15.98	1.79	0.34	0.28	0.22	13.68	33.74	28.09	310					
...	...	...	...	...	...	144	340	...	...	...	10.94	0.57	0.29	0.23	0.11	8.26	19.50	22.60	311					
...	...	...	...	...	...	187	310	...	...	...	7.07	0.50	0.50	0.21	0.50	12.35	22.13	19.24	312					
...	...	...	...	...	...	13	180	...	...	...	8.42	2.81	2.64	0.31	...	1.11	15.30	22.36	313					
...	...	...	...	...	...	68	271	...	...	...	14.41	2.97	0.54	0.90	0.27	6.13	24.41	26.76	314					
...	...	...	...	...	...	13	242	...	...	...	16.10	3.68	2.33	0.10	...	1.26	33.47	21.70	315					
...	...	...	...	...	...	125	251	...	...	...	8.65	2.07	2.31	0.81	0.19	14.41	28.93	26.26	316					
...	...	...	...	...	...	52	157	...	...	...	6.13	4.70	1.48	...	0.37	6.43	19.42	22.95	317					
...	...	...	...	...	...	83	192	...	...	...	3.96	5.32	4.37	0.68	0.55	11.32	26.19	21.97	318					
...	...	...	...	...	...	96	187	...	...	...	4.88	5.03	2.96	0.44	0.15	14.21	27.68	20.39	319					
...	...	...	...	...	...	98	191	...	...	...	8.51	3.58	0.90	0.45	0.45	14.63	28.51	17.34	320					
...	...	...	...	...	...	99	147	...	...	...	5.28	0.91	0.75	0.15	0.15	14.95	22.19	29.77	321					
...	...	...	...	...	...	102	194	...	...	...	12.60	1.10	0.63	...	0.16	16.97	30.57	28.42	322					
...	...	...	...	...	...	51	155	...	0.35	...	12.48	2.08	3.64	...	...	8.84	27.38	27.94	323					
...	...	...	...	...	...	59	167	...	...	...	14.14	1.86	1.30	0.37	0.56	10.98	29.21	27.35	324					
222	1,831	154	95	2,533	2,988	87,825	168,923	0.51	0.08	0.04	4.23	2.73	4.59	0.41	0.48	14.15	27.21	26.51	...					
1,741	4,800	2,033	728	10,502	11,601	444,925	885,507	0.53	0.05	0.02	6.90	1.78	1.79	0.29	0.31	11.79	23.46	23.45	...					
1,964	6,640	2,187	826	13,336	14,589	532,750	1,054,430	0.53	0.06	0.03	6.52	1.92	2.18	0.30	0.33	12.12	23.99	23.75	...					

rural towns with a population of 5,000 or more

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in the Municipalities of the Madras Presidency during the year 1937.

Other fevers.		Dysentery.		Diarrhoea.		Pneumonia.		Other respiratory diseases.		Pulmonary tuberculosis.		Deaths from child-birth.	Deaths under one year.			Infantile mortality rate per 1,000 live births.	Serial number.
Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.		Males.	Females.	Total.		
(7)		(8)		(9)		(10)		(11)		(12)		(13)	(14)			(15)	
20	1.92	20	1.32	22	1.45	8	0.50	2	0.13	21	1.39	6	28	27	55	90.91	1
2	0.14	9	0.63	8	0.56	36	2.63	38	2.67	32	2.25	7	52	32	84	121.21	2
32	2.53	9	0.71	20	1.58	7	0.55	4	0.32	17	1.35	9	29	30	59	107.27	3
73	1.53	65	1.37	117	2.46	272	5.72	7	0.15	188	3.95	33	234	189	423	196.11	4
...	...	38	1.06	38	1.06	93	2.61	100	2.81	92	2.58	18	81	73	154	110.75	5
8	0.37	2	0.09	40	1.85	64	2.49	25	1.15	52	2.40	7	82	56	138	147.91	6
54	0.83	148	2.27	86	1.32	332	5.09	21	0.32	123	1.88	43	240	164	404	157.08	7
63	1.91	45	1.36	54	1.63	16	0.48	90	2.73	58	1.76	2	115	88	203	175.61	8
19	1.32	36	2.50	24	1.67	43	2.99	19	1.32	33	1.60	30	60	56	116	145.18	9
4	0.18	20	0.91	3	0.14	33	1.50	15	0.68	17	0.77	20	73	52	125	39.04	10
59	3.08	26	1.36	49	2.56	23	1.20	5	0.26	44	2.30	12	51	63	114	188.43	11
63	0.98	169	1.77	131	1.38	215	2.26	131	1.38	162	1.70	62	378	286	654	168.50	12
16	0.48	40	1.45	9	0.27	22	0.65	18	0.53	44	1.31	20	84	67	151	147.89	13
143	6.46	38	1.72	17	0.77	43	1.94	19	0.81	24	1.08	6	78	60	147	176.90	14
...	...	60	3.79	24	1.52	39	2.14	1	0.05	52	2.85	8	68	36	104	149.56	15
24	1.33	49	2.71	49	2.71	71	3.93	36	1.94	25	1.38	15	113	85	198	157.86	16
9	0.74	25	2.05	5	0.41	32	2.62	2	0.16	13	1.07	3	60	37	97	161.67	17
70	3.10	16	0.71	31	1.37	32	1.42	16	0.71	43	1.90	50	76	65	141	131.28	18
12	0.60	19	0.94	16	0.79	26	1.29	20	0.99	18	0.89	9	62	26	88	108.61	19
248	3.90	75	1.18	105	1.65	45	0.71	73	1.15	96	1.51	41	365	275	640	271.99	20
249	3.78	89	1.35	117	1.77	57	0.86	133	1.66	54	0.82	22	314	248	562	276.98	21
112	6.46	13	0.75	5	0.29	3	0.17	8	0.46	20	1.15	10	67	39	106	155.20	22
170	2.96	119	2.08	21	0.37	40	0.85	7	0.12	80	1.39	20	144	105	249	105.55	23
1	0.16	11	0.65	29	1.72	14	0.83	17	1.01	8	0.47	13	63	51	114	234.09	24
263	4.03	89	1.37	160	2.45	78	1.20	22	0.34	99	1.52	66	295	215	510	186.73	25
45	1.30	29	0.84	18	0.52	23	0.64	15	0.43	26	0.75	11	137	66	193	162.21	26
88	4.68	34	1.80	7	0.37	11	0.58	...	...	21	1.11	14	64	54	118	165.73	27
2	0.12	64	3.84	77	4.62	81	4.36	...	...	47	2.82	22	79	73	152	167.65	28
93	6.42	27	1.75	68	4.41	1	0.05	2	0.13	8	0.52	13	63	55	118	220.15	29
221	3.66	77	1.27	17	0.28	126	2.09	30	0.50	97	1.61	51	351	307	658	250.57	30
134	2.24	73	1.22	96	1.60	98	1.64	41	0.68	63	1.05	29	360	269	629	256.33	31
84	6.20	30	2.22	25	1.85	19	1.40	14	1.03	19	1.40	15	115	99	214	275.77	32
44	1.25	27	0.76	78	2.21	50	1.42	53	1.50	80	2.27	13	100	71	171	611.06	33
61	2.70	40	1.76	12	0.53	5	3.43	32	1.42	35	1.55	9	44	36	80	108.11	34

No. VI (a) (Optional).—Deaths registered from Certain Causes

Serial number.	Municipalities.	Malaria.		Enteric fever.		Measles.		Relapsing fever.		Kala-Azar.		Influenza.	
		Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Madras.													
35	Madras	78	0.12	96	0.15	8	0.01	...	...	...	...	...	...
Madura.													
36	Madura	15	0.08	36	0.20	9	0.05	...	...	...	...	...	...
37	Dindigul	4	0.09	4	0.09	6	0.14	...	...	...	...	8	0.04
38	Bodinayakanur ...	36	1.33	...	...	5	0.18	...	...	...	...	1	0.02
39	Palni	1	0.05	11	0.58	...	...	...	...	...	...	...	...
40	Periyakulam	6	0.26	...	...	6	0.26	...	...	...	...	6	0.32
41	Kodaikanal	...	...	...	...	...	...	...	...	...	...	1	0.04
												3	0.46
Malabar.													
42	Calicut	6	0.09	191	1.02	2	0.02	...	...	...	...	...	...
43	Palghat	7	0.14	18	0.37	1	0.02	...	...	...	...	1	0.01
44	Cannanore	6	0.18	14	0.41	...	...	...	...	...	...	...	...
45	Tellicherry	4	0.13	43	1.42	...	...	...	...	...	...	1	0.03
46	Cochin	...	...	51	2.23	...	...	...	...	...	...	...	...
Nellore.													
47	Nellore	5	0.11	50	1.09	4	0.09	...	...	...	...	4	0.09
Nilgiris.													
48	Ootacamund	7	0.28	3	0.12	...	...	...	...	...	...	...	...
49	Coonoor	7	0.49	8	0.56	...	...	...	...	...	...	3	0.12
												1	0.07
North Arcot.													
50	Vellore	7	0.12	24	0.42	9	0.16	...	...	...	...	...	...
51	Gudiyattam	4	0.16	8	0.32	17	0.69	...	...	...	...	...	...
52	Tiruvannamalai ...	2	0.07	5	0.18	1	0.04	...	...	...	...	...	...
53	Vaniyambadi	16	0.70	16	0.70	...	...	...	...	...	...	7	0.25
54	Tirupattur	21	1.15	10	0.55	...	...	...	...	...	...	...	...
55	Walajapet	1	0.09	...	...	...	...	...	...	...	...	...	...
Ramanad.													
56	Srivilliputtur	3	0.09	4	0.12	...	...	...	...	...	...	...	...
57	Virudhunagar	2	0.06	9	0.27	4	0.12	...	...	...	...	6	0.19
58	Sivakasi	3	0.20	8	0.53	...	...	...	...	1	0.03	1	0.03
59	Karaikudi	1	0.05	6	0.28	...	...	...	...	...	...	1	0.07
60	Devakottai	...	...	4	0.20	4	0.20	...	...	...	...	...	...
Salem.													
61	Salem	70	0.74	42	0.41	18	0.18	...	...	...	...	1	0.01
South Arcot.													
62	Cuddalore	6	0.10	13	0.22	11	0.19	...	...	...	...	...	...
63	Chidambaram	...	...	2	0.08	...	...	...	...	...	...	27	0.46
64	Villupuram	...	...	6	0.30	...	...	...	...	...	...	...	...
South Kanara.													
65	Mangalore	17	0.25	129	1.93	6	0.09	...	...	...	...	...	...
66	Udupi	3	0.17	16	0.83	...	...	...	...	...	...	2	0.03
												7	0.41
Tanjore.													
67	Tanjore	10	0.15	49	0.73	3	0.04	...	...	...	...	2	0.03
68	Kumbakonam	2	0.03	24	0.39	1	0.02	...	...	1	0.01	...	...
69	Negapatam	4	0.08	10	0.21	7	0.14	...	...	...	...	1	0.02
												5	1.03

in the Municipalities of the Madras Presidency during the year 1937—cont.

Other fevers.		Dysentery.		Diarrhoea.		Pneumonia.		Other respiratory diseases.		Pulmonary tuberculosis.		Deaths from child-birth.	Deaths under one year.			Infantile mortality rate per 1,000 live births.	Serial number.
Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.		Males.	Females.	Total.		
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	
2,013	3.18	1224	1.93	883	1.39	...	...	6,676	10.55	1,155	1.82	289	3,672	3,116	6,788	232.27	35
317	1.74	490	2.69	253	1.39	1,061	5.83	647	3.55	455	2.50	94	931	736	1,667	201.45	36
96	2.20	45	1.03	75	1.72	13	0.30	13	0.30	47	1.03	16	177	137	314	145.84	37
2	0.07	38	1.11	11	0.41	38	1.41	42	1.55	17	0.63	3	100	85	185	161.01	38
61	3.39	69	3.65	17	0.79	100	5.29	105	5.65	27	1.43	15	76	75	151	193.84	39
32	1.39	40	1.74	66	2.87	34	1.44	52	2.26	57	2.48	7	115	88	203	204.02	40
...	...	5	0.77	5	0.77	27	4.14	49	7.52	2	0.31	2	39	22	61	180.47	41
32	0.32	115	1.16	90	0.91	151	1.52	29	0.29	411	1.14	65	312	234	546	117.52	42
93	1.90	44	0.90	57	1.16	63	1.28	49	1.00	66	1.35	18	166	162	328	161.50	43
61	1.782	23	0.67	17	0.50	62	1.81	14	0.41	86	2.51	14	80	72	152	124.18	44
21	0.69	22	0.72	24	0.79	42	1.38	21	0.69	79	2.60	15	56	52	108	99.26	45
9	0.39	77	3.37	25	1.10	61	2.67	45	1.97	51	2.23	9	67	47	114	133.18	46
187	4.08	64	1.39	96	1.87	87	1.90	48	1.05	83	1.81	57	307	252	559	246.36	4
4	0.16	34	1.38	18	0.73	161	6.54	25	1.02	14	0.57	7	115	73	188	180.25	48
4	0.28	13	0.91	17	1.19	72	5.02	12	0.81	13	0.91	10	33	37	70	135.14	49
47	0.82	107	1.87	145	2.53	133	2.32	72	1.26	156	2.72	42	270	200	470	157.35	50
12	0.49	34	1.38	94	1.98	75	3.04	14	0.57	36	1.16	17	95	87	182	155.42	51
18	0.65	103	3.71	94	3.20	97	3.49	24	0.86	48	1.73	21	122	87	209	158.09	52
...	...	12	0.52	15	0.70	24	1.05	26	1.13	38	1.63	16	77	45	122	146.28	53
7	0.38	20	1.09	5	0.27	31	1.09	26	1.42	39	2.13	14	45	35	80	100.13	54
18	1.62	23	2.07	31	2.79	33	2.97	5	0.45	15	1.36	5	33	22	55	150.27	55
8	0.25	70	2.16	28	0.86	66	2.04	17	0.52	54	1.67	15	82	68	150	129.31	56
38	1.15	109	3.40	85	2.57	74	2.24	73	2.21	47	1.42	18	142	138	280	220.65	57
39	2.56	29	1.91	12	0.79	6	0.39	2	0.13	28	1.84	5	18	16	34	71.68	58
55	2.54	32	1.48	36	1.66	6	0.28	82	3.78	27	1.25	8	47	46	93	136.26	59
96	4.32	28	1.37	18	0.88	4	0.20	5	0.25	15	0.74	7	40	17	57	104.20	60
201	1.97	165	1.61	107	1.63	213	2.08	93	0.91	131	1.28	38	320	271	591	163.12	61
108	1.83	117	1.98	114	1.93	99	1.68	19	0.32	61	1.03	44	193	175	368	150.20	62
54	2.15	35	1.35	23	0.92	51	2.03	10	0.40	23	0.88	13	80	79	159	180.68	63
48	2.39	18	0.89	38	1.89	43	2.14	7	0.35	24	1.19	21	50	46	96	135.02	64
14	0.21	69	1.03	43	0.64	117	1.75	86	1.20	183	2.74	35	137	123	260	106.25	65
80	1.74	26	1.51	14	0.81	9	0.52	19	1.10	34	1.97	6	52	40	92	125.85	66
176	2.69	113	1.69	70	1.05	85	1.37	28	0.42	126	1.88	61	288	177	465	168.05	67
171	2.74	50	0.80	38	0.61	66	1.06	24	0.39	79	1.27	33	229	204	433	167.76	68
97	2.09	95	1.96	45	0.93	44	0.91	49	1.01	93	1.92	34	147	108	255	148.77	69

No. VI (a) (Optional).—Deaths registered from Certain Causes

Serial number.	Municipalities.	Malaria.		Enteric fever.		Measles.		Relapsing fever.		Kala-Azar.		Influenza.	
		Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	<i>Tanjore—cont.</i>												
70	Mayavaram ...	...	...	3	0'06	...	...	...	...	...	...	7	0'22
71	Tiruvarur ...	12	0'59	20	0'08	1	0'05	...	...	...	...	...	...
72	Mannargudi ...	5	0'22	5	0'22	1	0'04	...	...	...	...	...	...
	<i>Tinnevelly.</i>												
73	Tinnevelly ...	...	...	22	0'39	...	...	...	...	...	...	5	0'09
74	Palamcottah ...	1	0'04	11	0'39	4	0'14	...	...	...	...	1	0'04
75	Tuticorin ...	6	0'10	9	0'15	...	...	...	...	...	...	1	0'02
	<i>Trichinopoly.</i>												
76	Trichinopoly ...	10	0'07	51	0'36	3	0'02	...	...	...	...	8	0'06
77	Srirangam ...	3	0'12	9	0'36	...	...	...	...	...	...	1	0'04
78	Karur... ..	...	...	2	0'10	...	...	...	...	...	...	...	...
	<i>Vizagapatam.</i>												
79	Vizagapatam ...	15	0'25	29	0'51	...	...	...	...	...	...	1	0'02
80	Vizianagram ...	51	1'21	22	0'49	1	0'02	...	...	1	0'02.	1	0'02
81	Annapalle ...	16	3'68	50	2'14	...	...	...	...	...	...	...	...
82	Chinnole ...	5	0'30	13	0'75	2	0'12	...	...	...	...	...	...
83	Bimlipatam ...	7	0'73	2	0'21	...	...	...	...	...	...	...	...
	Total ...	1,115	0'30	1,712	0'46	253	0'07	1	0'0003	3	0'001	188	0'05

Note.—Deaths under Cerebro-spinal fever, Beri-beri, Typhons fever, of joints, other Tubercular diseases,

in the Municipalities of the Madras Presidency during the year 1937—cont.

Other fevers.		Dysentery.		Diarrhoea.		Pneumonia.		Other respiratory diseases.		Pulmonary tuberculosis.		Deaths from child-birth.	Deaths under one year.			Infantile mortality rate per 1,000 live births.	Serial number.
Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.		Males.	Females.	Total.		
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	
55	1'72	38	1'19	37	1'16	96	3'01	46	1'44	31	0'98	15	85	50	144	137'67	70
4	0'20	41	2'01	17	0'83	49	2'41	21	1'03	19	0'93	7	67	53	120	193'55	71
30	1'32	28	1'23	12	0'53	36	1'58	11	0'48	18	0'79	15	73	48	121	129'69	72
49	0'86	88	1'54	72	1'26	211	3'70	27	0'47	118	2'07	22	246	101	437	204'01	73
22	0'79	35	1'25	12	0'43	45	1'61	17	0'61	50	1'79	31	81	58	139	134'96	74
181	3'00	164	2'72	42	0'70	118	2'95	123	2'04	132	2'19	28	252	198	450	203'44	75
22	0'15	232	1'62	118	0'83	525	3'70	225	1'58	295	2'07	69	498	345	843	169'75	76
43	1'74	54	2'19	46	1'87	51	2'19	17	0'69	53	2'15	9	87	89	176	207'58	77
122	6'15	33	1'66	9	0'45	4	0'20	4	0'20	33	1'66	6	57	57	114	153'86	78
154	2'69	115	2'01	122	2'13	83	1'45	76	1'33	92	1'61	23	323	247	570	237'20	79
16	0'36	105	2'35	102	2'23	28	0'63	30	0'67	106	2'37	17	219	173	392	208'18	80
6	0'26	30	1'28	89	3'81	25	1'07	157	6'72	34	1'46	15	129	128	257	264'13	81
26	1'67	36	2'17	115	6'93	18	1'08	33	1'39	13	0'78	5	57	48	105	167'42	82
22	2'28	19	1'97	31	3'22	24	2'49	1	0'10	12	0'12	5	57	36	93	227'94	83
7,465	2'01	6,225	1'68	5,102	1'38	6,674	1'80	10,300	2'78	6,626	1'79	2,024	15,480	12,366	27,846	182'26	...

Acute-Poliomyelitis, Diphtheria, Black-water fever, Mumps, Tuberculosis
Whooping cough, Leprosy and Cancer are Nil.

No. VII.—Deaths registered from Cholera in the Districts of the Madras Presidency during each month of the year 1937.

Number (1)	Districts (2)	Circles of registration		Villages and towns from which vital statistics returns were received		January (7)	February (8)	March (9)	April (10)	May (11)	June (12)	July (13)
		Number (3)	Number from which deaths were reported (4)	Number (5)	Number from which deaths from cholera were reported (6)							
1	Anantapur	12	5	579	21	12	14	1	2	56	80	3
2	Bellary	12	12	913	163	1	...	1	...	...	...	388
3	Chingleput	10	10	2,178	227	224	112	22	4	...	19	26
4	Chittoor	11	10	2,559	104	173	28	28	11	...	...	7
5	Coimbatore	16	14	1,074	373	255	174	514	728	893	480	72
6	Cuddapah	10	10	1,910	135	15	15	2	...	...	1	2
7	Godavari, East	11	5	816	12	...	...	...	1	2	1	3
8	Godavari, West	5	...	1,034	...	...	...	...	...	...	...	...
9	Guntur	9	5	746	10	...	...	...	...	4	...	...
10	Kistna	14	13	943	128	...	...	...	...	...	...	22
11	Kurnool	12	12	995	155	...	...	...	...	...	...	24
12	Madras	11	8	814	67	...	...	...	1	...	...	262
13	Madura	14	1	1,039	1	...	...	...	...	12	3	28
14	Malabar	14	9	1,089	127	307	159	1	1	...	3	6
15	Nellore	15	6	778	32	20	28	125	138	38	2	1
16	Nilgiris, the	14	14	1,705	161	305	124	25	7	5	17	26
17	North Arcot	5	5	59	5	...	2	2	10	...	...	...
18	Ramanad	17	16	2,021	161	...	120	8	1	...	...	3
19	Salem	14	12	1,525	203	357	296	215	132	42	198	1
20	South Arcot	11	11	1,643	277	527	253	744	927	365	189	47
21	South Kanara	11	11	2,275	305	476	350	58	24	3	...	156
22	Tanjore	8	7	804	35	42	66	7	...	...	...	6
23	Tinnevely	17	17	2,642	678	1,782	642	104	107	76	50	...
24	Trichinopoly	12	10	1,102	68	77	37	16	20	56	30	41
25	Vizagapatnam	10	10	1,161	343	654	362	79	638	121	55	...
26	Vizagapatnam	22	4	4,071	6	3	2	1	...	3	...	74
Total, Madras Presidency		304	237	34,586	3,737	5,827	2,809	1,975	2,809	1,594	1,133	1,202

No. VII.—Deaths registered from Cholera in the Districts of the Madras Presidency during each month of the year 1937—cont.

Number.	Districts.	August. (14)	September. (15)	October. (16)	November. (17)	December. (18)	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 for previ- ous 5 years.
							Males. (19)	Females. (20)	Total. (21)	Males. (22)	Females. (23)	Total. (24)	
1	Anantapur	27	12	15	13	...	50	47	87	0.09	0.09	0.09	0.18
2	Bellary	420	76	43	24	1	576	537	1,113	1.17	1.13	1.15	0.39
3	Chingleput	101	22	27	144	430	572	561	1,133	0.69	0.69	0.69	0.52
4	Chittoor	29	14	11	...	242	284	271	555	0.38	0.38	0.38	0.30
5	Coimbatore	7	78	52	49	98	1,893	1,507	3,310	1.45	1.23	1.35	0.32
6	Cuddapah	9	...	40	155	418	350	307	657	0.72	0.66	0.69	0.45
7	Godavari, East	...	1	11	8	...	16	11	27	0.02	0.01	0.02	0.36
8	Godavari, West	98	...	12	3	...	91	61	...	...	0.10	...	0.32
9	Guntur	478	185	60	24	14	404	386	790	0.39	0.33	0.39	0.22
10	Kistna	251	73	31	9	11	339	299	638	0.53	0.48	0.51	0.24
11	Kurnool	210	18	32	21	19	208	202	410	0.40	0.40	0.40	0.27
12	Madras	27	21	42	45	37	127	102	229	0.38	0.34	0.36	0.16
13	Madura	2	2	1	...	...	387	388	775	0.36	0.35	0.35	0.64
14	Malabar	1	...	...	...	...	63	67	133	0.04	0.04	0.04	0.04
15	Nellore	66	116	46	18	127	453	381	834	0.61	0.51	0.56	0.56
16	Nilgiris, the	...	...	...	...	...	6	3	9	0.07	0.04	0.05	0.02
17	North Arcot	3	2	6	15	48	303	337	703	0.32	0.30	0.31	0.74
18	Ramanad	56	44	4	...	...	653	738	1,391	0.75	0.76	0.76	0.56
19	Salem	68	35	50	1	15	1,724	1,809	3,333	1.42	1.32	1.37	0.19
20	South Arcot	11	2	7	15	404	730	628	1,358	0.60	0.51	0.55	0.12
21	South Kanara	...	10	...	...	...	51	66	117	0.08	0.09	0.09	0.01
22	Tanjore	34	1	2	37	92	1,587	1,400	2,987	1.39	1.13	1.25	0.94
23	Tinnevely	2	...	...	...	1	112	127	239	0.11	0.12	0.12	0.73
24	Trichinopoly	24	39	1	4	35	1,125	962	2,087	1.20	0.98	1.09	0.64
25	Vizagapatnam	59	...	22	60	37	119	111	230	0.08	0.07	0.07	0.59
Total, Madras Presidency		1,991	753	515	661	2,038	12,199	11,108	23,307	0.56	0.50	0.53	0.43

No. VIII.—Deaths registered from Smallpox in the Districts of the Madras Presidency during each month of the year 1937.

Number.	Districts.	Circles of registration.		Villages and towns from which vital statistics returns were received.		January.	February.	March.	April.	May.	June.	July.	August.
		Number.	Number from which deaths were reported.	Number.	Number from which deaths were reported.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	Anantapur	12	3	879	9	1	3	3	3	1	5	3	2
2	Bellary	12	5	913	13	2	9	17	7	15	5	12	1
3	Chingleput	10	9	2,178	78	6	3	6	5	2	5	3	15
4	Chittoor	11	8	2,259	26	7	3	3	3	2	5	3	8
5	Coimbatore	16	12	1,074	67	8	25	23	39	27	14	7	11
6	Cuddapah	10	8	1,070	17	2	3	3	1	5	4	2	2
7	Godavari, East { Plains Agency	11	6	816	8	7	1	1	4	1	4	6	...
8	Godavari, West	6	1	1,094	2	7	4	11	11	5	5	...	...
9	Guntur	14	2	746	4	11	...	...	...	...	...	...	...
10	Kistna	12	8	943	3	...	...	...	...	...	...	...	...
11	Kurnool	11	8	814	23	...	...	...	...	...	...	...	...
12	Madras	11	1	995	25	...	...	...	...	...	...	...	...
13	Madura	13	7	1,069	48	3	3	11	7	11	4	16	1
14	Malebar	15	10	778	11	3	8	8	12	11	3	9	2
15	Nellore	16	10	1,705	75	25	3	3	23	11	5	12	31
16	Nilgiris, the	14	12	1,705	33	25	46	48	33	19	7	5	4
17	North Arcot	5	1	59	2	...	8	8	5	9	2	...	6
18	Rannad	17	9	2,021	23	6	...	10	...	2	...	...	4
19	Salem	14	10	1,525	57	10	8	7	18	7	7	6	1
20	South Arcot	11	10	1,649	26	26	31	34	33	22	8	8	8
21	South Kanara	11	10	2,275	112	37	26	17	14	23	20	16	23
22	Tanjore	8	5	804	10	1	10	4	...	...	...	...	18
23	Tinnevely	17	12	2,642	93	35	24	22	11	11	9	...	1
24	Trichinopoly	12	6	1,102	24	10	11	15	5	33	...	12	20
25	Vizagapatam	10	8	1,161	38	12	16	11	5	7	10	18	5
26	Total, Madras Presidency	304	187	34,586	898	262	247	276	259	233	162	183	199

No. VIII.—Deaths registered from Smallpox in the Districts of the Madras Presidency during each month of the year 1937—cont.

Number.	Districts.	September.	October.	November.	December.	Total.		Number of deaths among children.		Ratio of deaths per 1,000 of population.		Mean ratio per 1,000 for previous 5 years.
						Males.	Females.	Under 1 year.	From 1 to 10 years.	Males.	Females.	
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1	Anantapur	1	1	...	...	4	5	5	1	0.01	0.01	0.30
2	Bellary	2	1	...	...	12	18	5	8	0.03	0.03	0.28
3	Chingleput	17	15	...	...	83	83	45	51	0.10	0.10	0.30
4	Chittoor	6	8	...	...	35	46	32	33	0.06	0.05	0.21
5	Coimbatore	6	6	...	...	95	90	51	80	0.07	0.08	0.13
6	Cuddapah	...	4	...	...	14	17	8	4	0.03	0.03	0.38
7	Godavari, East { Plains Agency	...	...	...	...	3	5	2	6	0.01	0.01	0.16
8	Godavari, West	...	...	...	...	25	28	18	17	0.05	0.04	0.14
9	Guntur	1	...	...	...	3	1	1	1	0.001	0.003	0.19
10	Kistna	1	...	...	...	18	18	21	8	0.03	0.03	0.17
11	Kurnool	4	7	...	...	34	34	13	29	0.04	0.07	0.58
12	Madras	21	19	...	...	94	102	15	41	0.31	0.31	0.38
13	Madura	8	13	...	...	56	54	23	42	0.05	0.05	0.15
14	Malebar	8	2	...	...	104	102	8	32	0.06	0.06	0.15
15	Nellore	1	2	...	...	38	42	17	19	0.05	0.05	0.20
16	Nilgiris, The	...	...	...	...	1	2	...	...	0.02	0.01	0.13
17	North Arcot	6	8	...	...	28	40	23	25	0.04	0.02	0.22
18	Rannad	23	5	...	...	64	76	58	36	0.09	0.07	0.33
19	Salem	6	6	...	...	104	125	77	74	0.10	0.09	0.23
20	South Arcot	11	6	...	...	129	115	75	83	0.03	0.10	0.45
21	South Kanara	2	1	...	...	9	11	7	4	0.02	0.01	0.11
22	Tanjore	8	10	...	...	97	83	64	39	0.07	0.08	0.38
23	Tinnevely	...	7	...	...	87	35	21	19	0.04	0.05	0.21
24	Trichinopoly	8	7	...	...	114	62	43	29	0.06	0.06	0.13
25	Vizagapatam	9	7	...	...	98	45	43	31	0.03	0.03	0.10
26	Total, Madras Presidency	144	131	163	187	1,230	1,218	677	713	0.06	0.06	0.23

No. IX.—Deaths registered from Fevers in the Districts of the Madras Presidency during each month of the year 1937.

No. IX.—Deaths registered from Fevers in the Districts of the Madras Presidency and the

Number.	Districts.	Circles of registra- tion.		Villages and towns from which vital statistics returns were received.		January. (7)	February. (8)	March. (9)	April. (10)	May. (11)	June. (12)	July. (13)
		Number.	Number from which deaths from fevers were reported.	Number.	Number from which deaths from fevers were reported.							
						(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	Anantapur	12	12	879	662	604	508	516	563	658	568	544
2	Bellary	12	12	913	746	572	458	587	559	575	527	482
3	Chingleput	10	10	2,178	974	592	453	439	454	445	423	515
4	Chittoor	11	11	2,259	1,374	1,010	704	633	698	843	710	670
5	Coimbatore	16	16	1,074	607	1,060	841	790	825	830	812	846
6	Cuddapah	10	10	1,010	608	1,060	712	681	628	872	743	747
7	Godāvari, East Plains Agency	11	11	816	775	1,448	966	962	934	1,022	1,062	1,066
8	Godāvari, East	5	5	1,094	793	512	302	283	278	251	242	221
9	Godāvari, West	9	9	746	554	872	628	628	603	613	708	765
10	Guntur	14	14	946	884	1,726	1,214	1,241	1,092	1,409	1,368	1,457
11	Kistna	12	12	895	835	846	671	711	681	834	816	900
12	Kurnool	11	11	814	741	1,199	1,030	1,104	1,136	1,310	1,189	1,170
13	Madras	14	14	1,060	726	781	518	604	601	564	636	638
14	Madras	15	15	1,778	683	1,244	1,184	1,291	1,363	1,569	1,729	2,200
15	Malabar	14	14	1,705	1,155	1,096	739	790	777	805	823	763
16	Nellore	5	5	59	56	84	66	87	127	119	130	160
17	Nilgiris, The	17	17	2,021	1,485	1,335	924	911	896	942	960	897
18	North Arcot	14	14	1,525	1,048	1,385	1,041	972	868	1,087	984	1,016
19	Rannad	11	11	1,649	1,173	1,584	1,174	1,062	1,092	1,331	1,257	1,247
20	Salem	11	11	2,275	1,434	1,883	639	659	598	614	661	645
21	South Arcot	8	8	804	727	1,000	898	401	391	442	419	412
22	South Kanara	17	17	2,642	1,157	640	459	604	607	619	587	557
23	Tanjore	12	12	1,102	663	909	662	604	478	619	587	548
24	Tinnevely	10	10	1,161	827	738	488	512	478	619	587	548
25	Trichinopoly	22	22	4,071	3,293	4,415	3,095	3,622	3,342	3,179	3,082	3,403
	Vizagapatam	301	301	34,586	24,583	27,673	20,582	21,205	20,285	22,459	22,229	23,205
	Total	304	304	34,586	24,583	27,673	20,582	21,205	20,285	22,459	22,229	23,205

No. IX.—Deaths registered from Fevers in the Districts of the Madras Presidency during each month of the year 1937—cont.

Number.	Districts.	August.	September.	October.	November.	December.	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 for previous 5 years.
							Males.	Females.	Total.	Males.	Females.	Total.	
1	Anantapur	506	486	535	650	838	3,379	3,545	6,924	627	694	659	730
2	Bellary	583	588	555	516	473	3,365	3,110	6,475	643	653	658	809
3	Chingleput	561	504	493	572	644	2,985	3,110	6,095	857	881	869	827
4	Chittoor	716	670	725	792	1,106	4,519	4,813	9,332	612	679	645	565
5	Coimbatore	855	851	814	851	1,225	5,321	5,279	10,600	437	431	434	444
6	Cuddapah	970	888	897	1,022	1,167	5,069	5,133	10,202	1048	1103	1074	963
7	Godavari, East { Plains Agency	1,364	1,253	1,478	1,370	1,685	7,300	7,210	14,510	852	847	863	1289
8	Godavari, West	312	310	323	335	483	2,014	1,843	3,857	1067	1540	1604	705
9	Guntur	892	1,032	1,003	805	1,045	4,794	4,800	9,594	796	773	785	823
10	Kistna	1,951	1,894	1,744	1,425	1,633	9,074	8,900	18,064	882	893	887	720
11	Kurnool	1,063	1,056	939	818	1,074	5,173	5,216	10,379	814	842	827	1184
12	Madras	1,398	1,085	1,017	856	1,554	7,050	6,980	14,040	1355	1385	1370	1184
13	Madras	175	154	158	176	245	1,066	1,039	2,105	326	367	347	343
14	Madras	571	555	608	798	996	4,077	3,791	7,868	377	340	359	343
15	Malabar	1,817	1,213	1,082	1,046	1,376	8,650	8,454	17,104	505	466	484	595
16	Nellore	1,013	798	786	1,010	1,184	5,566	4,994	10,590	752	673	713	612
17	Nilgiris, The	118	97	82	95	121	686	600	1,286	707	800	782	753
18	North Arcot	833	800	794	941	1,322	5,644	5,911	11,555	449	521	510	506
19	Ramnad	1,080	983	1,148	1,207	1,769	6,633	7,007	13,640	761	726	742	711
20	Salem	1,312	1,221	1,157	1,463	1,841	7,891	7,853	15,744	652	643	647	655
21	South Arcot	732	746	815	977	1,110	4,618	4,541	9,159	377	369	374	415
22	South Kanara	977	743	696	689	848	5,186	5,038	10,224	781	711	745	682
23	Tanjore	435	349	446	689	762	2,883	3,012	5,895	242	243	247	238
24	Tinnevely	578	603	669	830	1,243	4,380	4,256	8,636	434	402	417	433
25	Trichinopoly	554	542	633	858	968	3,799	3,728	7,525	381	394	386	436
	Vizagapatam	3,876	3,920	4,124	4,091	5,152	22,634	22,607	45,301	1439	1388	1486	1488
	Total, Madras Presidency	25,242	23,391	23,716	24,882	31,845	143,776	142,918	286,694	661	644	652	669

No. X.—Deaths registered from Dysentery and Diarrhoea in the Districts of the Madras Presidency during each month of the year 1937.

Number.	Districts.	Circles of registration.		Villages and towns from which vital statistics returns were received.		January.	February.	March.	April.	May.	June.	July.
		Number.	Number.	Number.	Number.	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	Anantapur	12	12	879	335	184	104	104	94	128	118	138
2	Bellary	12	12	913	343	167	111	124	105	135	131	138
3	Chingleput	10	10	2,178	764	412	279	244	205	194	211	236
4	Chittoor	11	11	2,259	873	599	298	253	242	336	270	298
5	Coimbatore	16	16	1,074	845	512	484	430	445	534	548	513
6	Cuddapah	10	10	1,010	347	127	53	67	83	142	89	83
7	Godavari, East	11	11	816	387	147	119	129	137	162	180	215
8	Godavari, East Agency	5	5	1,094	107	14	9	14	10	15	14	13
9	Godavari, West	9	9	746	397	170	119	136	157	207	204	237
10	Guntur	14	14	946	633	465	302	346	308	314	336	462
11	Kistna	12	12	995	571	235	207	220	198	193	181	322
12	Kurnool	11	11	814	343	154	91	102	129	118	118	202
13	Madras	14	14	1,089	554	514	157	135	112	183	161	136
14	Madras	15	15	778	576	412	272	252	279	301	333	321
15	Malabar	14	14	1,705	783	41	30	33	48	954	1,100	1,239
16	Nellore	5	5	59	48	41	30	33	48	954	1,100	1,239
17	Nilgiris, The	17	17	2,021	1,140	1,080	582	407	360	420	319	409
18	North Arcot	14	14	1,525	629	430	284	213	177	205	215	213
19	Ramanad	11	11	1,649	657	341	198	238	232	349	249	261
20	Salem	11	11	2,275	1,117	772	360	300	273	286	260	318
21	South Arcot	8	8	804	439	380	251	164	105	98	127	190
22	South Kanara	17	17	2,642	885	506	275	178	145	183	149	153
23	Tanjore	12	12	1,102	623	431	304	256	239	264	217	225
24	Tinnevely	10	10	1,161	623	431	274	217	254	253	231	286
25	Trichinopoly	22	22	4,071	1,478	387	297	479	447	415	418	565
Total, Madras Presidency		304	304	34,586	15,351	9,902	6,169	5,780	5,641	6,727	6,455	7,475

No. X.—Deaths registered from Dysentery and Diarrhoea in the Districts of the Madras Presidency during each month of the year 1937—Cont.

Number.	Districts.	August.	September.	October.	November.	December.	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 for previous years.
							Males.	Females.	Total.	Males.	Females.	Total.	
(1)	(2)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
1	Anantapur	146	163	128	159	229	894	799	1,693	1.66	1.56	1.61	1.47
2	Bellary	184	154	118	96	123	813	778	1,586	1.65	1.62	1.64	2.34
3	Chingleput	290	255	225	234	301	1,688	1,498	3,086	1.90	1.83	1.87	1.78
4	Chittoor	270	256	280	282	446	2,042	1,788	3,830	2.77	2.52	2.65	2.31
5	Coimbatore	551	534	514	569	650	3,113	3,166	6,279	2.56	2.58	2.57	2.91
6	Cuddapah	156	138	133	118	142	750	581	1,331	1.55	1.25	1.40	1.07
7	Godavari, East	236	201	143	154	143	1,053	913	1,966	1.27	1.07	1.17	1.26
8	Godavari, East Agency	20	17	27	22	31	95	111	206	0.79	0.93	0.86	1.69
9	Godavari, West	314	229	179	152	147	1,158	1,093	2,251	1.92	1.76	1.84	1.81
10	Guntur	806	532	842	318	382	2,592	2,321	4,913	2.52	2.30	2.41	1.68
11	Kistna	445	297	184	131	173	1,467	1,299	2,766	2.31	2.10	2.20	1.66
12	Kurnool	243	169	146	115	192	913	867	1,780	1.76	1.72	1.74	1.54
13	Madras	201	171	162	202	235	1,083	1,024	2,107	3.24	3.42	3.33	3.70
14	Madras	317	336	316	483	605	2,222	2,107	4,329	2.06	2.09	2.12	2.80
15	Malabar	845	419	334	294	306	3,683	3,788	7,431	2.15	2.37	2.51	2.58
16	Nellore	408	353	245	309	348	1,472	1,760	3,732	2.65	2.92	2.65	3.08
17	Nilgiris, The	27	26	21	15	33	216	219	435	2.41	2.92	2.57	2.53
18	North Arcot	387	337	350	473	689	2,384	2,339	4,723	2.64	2.60	2.57	2.53
19	Ramanad	181	195	228	354	464	1,574	1,583	3,160	1.80	1.64	1.72	1.89
20	Salem	239	222	236	296	340	1,632	1,614	3,246	1.85	1.82	1.83	1.40
21	South Arcot	357	389	258	383	580	2,350	2,286	4,636	1.90	1.86	1.88	2.19
22	South Kanara	157	139	147	155	148	1,077	984	2,061	1.62	1.39	1.50	1.89
23	Tanjore	168	172	195	263	331	1,325	1,396	2,721	1.16	1.12	1.14	1.91
24	Tinnevely	224	238	275	365	676	1,945	1,963	3,908	1.97	1.85	1.91	2.44
25	Trichinopoly	209	233	291	411	467	1,788	1,773	3,561	1.91	1.81	1.86	2.30
	Vizagapatam	511	522	482	461	425	2,852	2,557	5,409	1.81	1.51	1.66	1.28
	Total, Madras Presidency	7,881	6,998	6,058	6,814	8,606	43,171	41,105	84,276	1.98	1.85	1.92	2.03

No. XI.—Deaths registered from Respiratory Diseases in the Districts of the Madras Presidency during each month of the year 1937.

No. XI.—Deaths registered from Respiratory Diseases

Number.	Districts.	Cities of registration.		Villages and towns from which vital statistics returns were received.		January.	February.	March.	April.	May.	June.	July.				
		Number.	(3)	Number from which deaths from respiratory diseases were reported.	(4)								Number.	(5)	Number from which deaths from respiratory diseases were reported.	(6)
1	Anantapur	12	12	879	339	169	120	126	96	143	141	119				
2	Bellary	12	12	913	333	228	212	225	173	162	175	170				
3	Chingleput	10	10	2,178	845	380	300	275	250	260	266	295				
4	Chittoor	11	11	2,259	608	301	212	194	197	209	171	182				
5	Coimbatore	16	16	1,074	828	623	539	579	542	651	574	632				
6	Cuddapah	10	10	1,010	293	103	78	60	78	81	70	86				
7	Godavari, East	11	11	816	439	349	287	259	215	221	260	275				
8	Godavari, East	5	5	1,094	192	60	45	24	38	41	35	34				
9	Godavari, West	9	9	745	415	263	208	225	208	225	184	205				
10	Guntur	14	14	946	584	461	323	367	289	325	337	375				
11	Kistna	12	12	995	298	298	247	227	234	217	234	270				
12	Kurnool	11	11	814	293	140	121	132	119	130	147	156				
13	Madras	1	1	1	1	762	591	635	587	626	562	563				
14	Madura	14	14	1,069	604	811	556	623	558	606	569	604				
15	Malabar	15	15	778	667	649	561	553	626	721	800	902				
16	Nellore	14	14	1,705	548	214	157	153	131	117	118	129				
17	Nilgiris, the	5	5	59	37	60	31	50	55	40	64	68				
18	North Arcot	17	17	2,021	962	548	414	370	349	381	379	352				
19	Ramnad	14	14	1,525	590	472	364	396	302	331	331	365				
20	Salem	11	11	1,649	519	299	250	213	226	282	302	332				
21	South Arcot	11	11	2,275	910	417	328	274	300	297	297	327				
22	South Kanara	11	11	804	400	210	151	163	143	163	184	225				
23	Tanjore	8	8	2,642	648	275	214	213	179	218	181	196				
24	Tinnevely	17	17	1,102	492	332	283	302	266	292	287	263				
25	Trichinopoly	12	12	1,161	623	426	301	308	313	362	323	359				
26	Vizagapatnam	10	10	4,071	1,303	459	305	390	314	301	275	330				
27	Total, Madras Presidency	22	22	34,586	14,062	9,309	7,198	7,349	6,788	7,475	7,286	7,884				

No. XI.—Deaths registered from Respiratory Diseases in the Districts of the Madras Presidency during each month of the year 1937—cont.

Number.	Districts.	August.	September.	October.	November.	December.	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per one 5 years.
							Males.	Females.	Total.	Males.	Females.	Total.	
1	Anantapur	118	114	122	136	156	888	672	1,560	1.65	1.32	1.49	2.29
2	Bellary	164	173	175	131	176	1,154	1,010	2,164	2.34	2.12	2.28	3.13
3	Chingleput	298	305	299	378	408	2,054	1,660	3,714	2.46	2.03	2.25	1.90
4	Chittoor	176	164	210	202	300	1,364	1,159	2,523	1.85	1.64	1.74	2.56
5	Coimbatore	680	628	721	740	926	4,185	3,690	7,875	3.44	3.00	3.22	2.93
6	Cuddapah	117	94	109	120	116	633	479	1,112	1.31	1.03	1.17	1.83
7	Goāvari, East	344	381	380	325	351	1,847	1,761	3,608	2.28	2.07	2.17	2.92
8	Goāvari, West	59	53	62	45	36	308	224	532	2.55	1.87	2.21	2.50
9	Gōdāvari, West	285	263	322	272	275	1,579	1,34	2,925	2.62	2.17	2.39	2.44
10	Guntur	518	423	474	381	435	2,620	2,108	4,728	2.63	2.09	2.32	3.03
11	Kistna	314	322	285	221	282	1,661	1,432	3,151	2.40	2.51	2.51	2.31
12	Kurnool	126	122	133	108	134	860	688	1,548	1.65	1.36	1.51	2.31
13	Madras	423	592	561	828	902	4,152	3,679	7,831	12.44	12.30	12.37	10.87
14	Madura	612	558	616	772	939	4,206	3,618	7,824	3.89	3.25	3.57	3.41
15	Malabar	7 8	641	592	576	629	4,634	3,394	8,028	2.70	1.87	2.27	2.24
16	Nellore	148	164	180	151	210	1,013	844	1,877	1.39	1.14	1.26	1.90
17	Nilgiris, The	67	53	44	69	68	379	310	689	4.24	4.13	4.19	4.67
18	North Arcot	402	363	406	417	542	2,686	2,257	4,923	2.36	1.99	2.17	1.92
19	Ramnad	343	348	400	439	607	2,505	2,302	4,807	2.77	2.38	2.62	2.24
20	Salem	274	267	300	315	384	1,898	1,546	3,444	1.57	1.27	1.42	1.26
21	South Arcot	330	323	352	417	406	2,179	1,869	4,048	1.78	1.54	1.66	1.70
22	South Kanara	208	199	185	156	148	1,222	953	2,175	1.84	1.35	1.59	1.65
23	Tanjore	215	191	205	271	146	1,438	1,177	2,615	1.80	0.95	1.12	1.07
24	Tinnevely	287	277	292	306	495	2,024	1,458	3,482	2.05	1.57	1.80	1.83
25	Trichinopoly	253	258	325	362	436	2,146	1,832	4,078	2.30	1.93	2.13	1.86
26	Vizagapatnam	316	379	397	391	469	2,281	2,045	4,326	1.45	1.21	1.32	1.59
Total, Madras Presidency		8,035	7,618	8,147	8,489	10,248	52,024	43,182	95,206	2.39	1.98	2.18	2.25

No. XII.—Deaths registered from Plague in the Districts of the Madras Presidency during each month of the year 1937.

Number.	Districts.	Circles of registration.		Villages and towns from which vital statistics returns were received.		January.	February.	March.	April.	May.	June.	July.
		Number.	Number from which deaths from plague were reported.	Number.	Number from which deaths from plague were reported.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	Anantapur	12	3	879	5	6	9	2	1	2	...	...
2	Bellary	12	2	913	10	10	25	4	1	...	...	...
3	Chingleput	10	...	2,178	14	2	13	3	...	2	1	2
4	Chittoor	11	2	2,259	9	...	2	4	11	15	...	...
5	Coimbatore	16	5	1,074	...	...	...	...	...	...	...	...
6	Cuddapah	10	...	1,010	...	...	...	...	...	...	...	...
7	Godavari, East { Plains Agency	11	...	816	...	...	...	...	...	...	...	...
8	Godavari, West	5	...	1,094	...	...	...	...	...	...	...	...
9	Guntur	14	...	748	...	...	...	...	...	...	...	...
10	Kistna	12	...	995	...	...	...	...	...	...	...	...
11	Karnool	11	1	814	1	...	...	...	...	...	...	...
12	Madras	14	3	1,069	29	66	47	84	33	12	12	21
13	Madura	15	3	778	3	1	...	...	...	...	...	1
14	Malabar	14	...	1,705	7	...	...	...	...	...	...	...
15	Nellore	5	4	59	...	...	2	...	3	1	...	...
16	Nilgiris, the	17	2	2,021	2	...	...	...	...	...	...	...
17	North Arcot	14	...	1,525	52	2	3	14	...	9	16	53
18	Rannad	11	4	1,649	...	...	...	...	...	...	...	...
19	Salem	11	...	2,275	3	...	3	...	...	...	...	...
20	South Arcot	8	2	804	...	...	...	...	...	...	...	...
21	South Kanara	17	...	2,642	...	...	...	...	...	...	...	...
22	Tanjore	12	...	1,102	...	...	...	...	...	...	...	...
23	Tinnevely	10	1	1,161	1	...	...	...	...	...	...	...
24	Trichinopoly	22	...	4,071	...	...	...	...	...	...	...	...
25	Vizagapatam	...	...	...	...	...	...	...	...	...	...	...
Total, Madras Presidency...		304	32	34,586	135	87	104	111	49	42	29	77

No. XII.—Deaths registered from Plague in the Districts of the Madras Presidency during each month of the year 1937—cont.

Number.	Districts.	Ratio of deaths per 1,000 of population.					Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 for previous 5 years.	(25)
		(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)		
		August.	September.	October.	November.	December.	Males.	Females.	Total.	Males.	Females.	Total.		
1	Anantapur	...	...	1	...	...	10	9	19	0.02	0.02	0.02	0.05	0.04
2	Bellary	...	...	...	...	...	26	16	42	0.05	0.03	0.04	0.69	...
3	Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Chittoor	8	2	...	2	2	20	17	37	0.03	0.02	0.03	0.01	...
5	Coimbatore	5	7	1	5	6	29	28	57	0.02	0.02	0.02	0.04	...
6	Cuddapah	...	...	...	...	...	...	...	...	...	...	...	0.002	...
7	Godāvāri, East { Plains Agency	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Godāvāri, West	...	...	...	...	...	...	...	...	...	...	...	0.002	...
9	Guntur	...	...	...	...	...	...	...	...	...	...	...	0.0002	...
10	Kistna ...	...	...	1	2	2	3	2	5	0.006	0.004	0.005	...	...
11	Kurnool	...	...	...	...	...	...	...	...	...	...	...	0.0002	...
12	Madras ...	...	...	...	...	...	...	...	...	...	...	...	0.24	...
13	Madura	41	27	27	72	99	213	328	541	0.20	0.29	0.25	0.03	...
14	Malabar	...	...	1	3	...	6	...	6	0.003	...	...	0.001	...
15	Nellore ...	...	...	...	...	...	...	...	...	...	...	...	0.01	...
16	Nilgiris, The	25	16	14	12	7	50	24	74	0.58	0.32	0.45	0.01	...
17	North Arcot	2	...	...	...	...	4	4	8	0.004	0.004	0.004	0.01	...
18	Rannad	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Salem ...	63	24	13	58	79	169	165	334	0.14	0.14	0.14	0.03	...
20	South Arcot	...	...	...	...	...	...	...	...	...	...	...	0.001	...
21	South Kanara	...	...	...	...	...	2	1	3	0.003	0.001	0.002	...	...
22	Tanjore	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Trichinopoly	1	...	...	...	...	1	...	1	0.001	...	0.001	...	...
25	Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total, Madras Presidency ...	145	78	58	154	195	5.3	594	1,127	0.02	0.03	0.03	0.03	0.04

APPENDIX II.

Table showing Health Services in Rural and Urban areas of the Madras Presidency during 1937 (prescribed in G.O. Ms. No. 1235, P.H., dated 7th June 1933).

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Note.—The statement does not include the posts of Reserve Health officers and the Provincial staff at headquarters.

Table showing Maternity and Child-Welfare Centres, Health Visitors and Trained Midwives in Rural and Urban areas in the Madras Presidency during 1937 (prescribed in G.O. Ms. No. 1285, P.H., dated 7th June 1933).

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VACCINATION STATEMENTS.

ANNEXURE I.

Statement showing inspection of Vaccinated Cases by District
Health Officers during 1937-38.

Name of district.	Total number of cases vaccinated during the year.		Percentage of cases inspected to total number vaccinated.
	Total number of cases vaccinated during the year.	Total number of cases inspected during the year.	
1. Anantapur ...	83,281	2,111	2.5
2. Arcot, North ...	143,863	2,039	1.4
3. Arcot, South ...	137,559	1,082	0.8
4. Bellary ...	84,576	2,175	2.6
5. Chingleput ...	90,230	1,895	1.9
6. Chittoor ...	93,521	2,753	3.0
7. Coimbatore ...	145,481	1,500	1.1
8. Cuddapah ...	82,493	1,011	1.2
9. Godāvari, East ...	93,803	1,575	1.7
10. Godāvari, West ...	70,531	808	1.1
11. Guntūr ...	129,613	1,832	1.4
12. Kistna ...	106,728	880	0.8
13. Kurnool ...	89,952	3,807	4.2
14. Madura ...	168,828	4,342	2.6
15. Malabar ...	253,233	5,442	2.3
16. Nellore ...	128,792	783	0.6
17. Nilgiris, The ...	22,963	705	3.1
18. Ramnad ...	142,579	304	0.2
19. Salem ...	185,874	2,270	1.2
20. South Kanara ...	84,026	859	1.0
21. Tanjore ...	120,811	828	0.7
22. Tinnevely ...	163,683	3,316	2.0
23. Trichinopoly ...	121,572	2,368	1.9
24. Vizagapatam ...	223,392	3,135	1.4

VACCINATION STATEMENTS—cont.

ANNEXURE II.

Statement showing inspection of Vaccinated Cases by Municipal
Health Officers during 1937-38.

Name of municipalities.	Total number of cases vaccinated during the year.		Total number of cases inspected during the year.		Percentage of cases inspected to total number vaccinated.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
1. Adoni ...	1,326	2,871	1,233	2,104	93.0	73.3
2. Bellary ...	2,018	5,145	1,681	2,880	83.3	56.0
3. Bezvada ...	2,032	6,315	1,617	1,896	78.8	30.0
4. Bodinayakanur ...	1,068	1,419	820	1,131	76.8	79.7
5. Calicut ...	4,132	10,976	2,709	3,075	65.6	28.0
6. Caunatore ...	788	4,245	252	1,833	32.3	42.2
7. Chidambaram ...	733	1,972	620	971	84.6	49.2
8. Chingleput ...	517	2,051	395	1,278	76.4	49.2
9. Chittoor ...	767	2,385	642	1,538	83.7	64.5
10. Cocanada ...	1,882	4,466	1,392	1,323	74.0	29.6
11. Cochin ...	919	2,097	725	1,348	78.9	64.3
12. Coimbatore ...	3,713	13,348	2,811	4,171	75.9	31.2
13. Conjeeveram ...	3,240	3,781	2,618	235	80.8	62.2
14. Coonoor ...	503	794	398	586	79.1	73.8
15. Cuddalore ...	1,962	5,720	1,637	3,468	83.4	60.6
16. Cuddapah ...	758	2,232	535	823	70.6	36.9
17. Dindigul ...	1,681	9,633	1,595	5,926	83.0	61.5
18. Ellore ...	1,952	4,343	1,687	3,626	86.4	83.5
19. Erode ...	795	2,172	687	1,359	86.4	62.6
20. Gudiyattam ...	1,014	2,352	869	1,585	85.7	67.4
21. Guntūr ...	1,973	1,575	1,484	318	75.2	20.2
22. Hindupur ...	599	2,210	494	1,229	82.5	55.6
23. Hospet ...	1,305	2,058	1,089	1,144	83.4	55.6
24. Karaikudi ...	699	1,761	542	1,108	81.0	62.9
25. Kambakonam ...	2,127	7,836	1,679	1,532	78.9	19.1
26. Kurnool ...	1,216	4,898	800	2,306	65.8	47.1
27. Madura ...	8,718	49,908	6,858	34,267	78.7	68.7
28. Mangalore ...	3,923	4,961	3,132	3,394	79.8	68.4
29. Mannargudi ...	714	1,507	547	674	76.6	44.7
30. Masulipatam ...	1,589	2,913	1,298	1,790	81.7	60.7
31. Mayavaram ...	1,095	5,983	849	3,527	77.5	59.0
32. Negapatam ...	1,184	6,582	914	5,771	77.2	87.7
33. Nellore ...	1,453	8,150	1,249	7,037	86.0	86.3
34. Ootacamund ...	892	652	683	432	76.6	66.3
35. Palghat ...	1,950	3,795	617	1,062	31.6	28.0
36. Periyakulam ...	929	2,247	841	1,139	90.5	50.7
37. Pollachi ...	697	3,134	226	1,089	32.4	33.2
38. Proddatur ...	702	1,195	394	807	56.1	67.5
39. Rajahmundry ...	1,992	8,044	1,420	1,382	71.3	17.2
40. Salem ...	2,711	3,207	1,979	2,274	73.0	70.9
41. Saidapet ...	1,295	2,181	1,038	1,191	80.1	54.6
42. Srirangam ...	735	1,866	552	1,201	75.1	64.4
43. Srivilliputtūr ...	893	4,095	835	3,178	93.5	77.5
44. Tanjore ...	2,814	7,653	2,113	4,030	75.1	52.7
45. Tellicherry ...	924	3,232	541	1,477	58.5	45.6
46. Tenali ...	1,128	2,828	907	1,582	80.8	55.9
47. Trichinopoly ...	5,351	15,675	4,355	13,720	81.4	87.5
48. Tinnevely ...	1,754	11,378	1,132	1,822	64.5	16.0
49. Tuticorin ...	2,207	13,065	1,745	10,188	79.1	78.0
50. Vellore ...	2,140	4,235	1,929	2,629	90.1	62.1
51. Virudhunagar ...	1,335	1,551	1,283	1,184	96.1	76.3
52. Vizagapatam ...	1,989	4,942	1,721	2,971	86.5	60.1
53. Visianagram ...	1,881	4,775	1,501	2,441	79.8	51.1

Statement No. 1 showing the Particulars of Vaccination in the Madras Presidency for the official year 1937-38.

Number.	Districts.	(1)	(2)	(3)	(4)	Total number of persons vaccinated.			(8)	Primary vaccination.				(13)	
						Average number of persons vaccinated.	Total number of persons vaccinated.			Total number of operations.	Successful.		Total of all ages.		
							Males.	Females.			Total.	Under 1 year.			1 and under 6 years.
1	Agency districts —	...	...	...	...	...	...	...	...	...	...	...	...	...	
2	Godavari ..	240,576	14 + 4	9,522	8,347	17,869	993	10,019	4,468	3,490	8,293	1,304			
3	Vizagapatam ..	194,168	8 + 2	7,675	6,267	13,942	1,354	7,611	699	2,878	6,018	599			
4	Total ..	434,744	22 + 6	17,197	14,614	31,811	1,136	17,630	5,162	6,368	14,311	1,903			
5	Anantapur ..	1,008,481	18 + 11	48,598	33,405	82,003	2,828	34,085	17,733	11,578	29,702	3,353			
6	Arant, North ..	2,104,926	27 + 11	79,124	63,175	142,299	3,745	75,896	41,343	25,886	68,022	6,628			
7	Arant, South ..	2,350,239	24 + 12	77,262	59,351	136,613	3,795	62,933	25,554	27,351	53,779	7,679			
8	Bellary ..	864,893	16 + 10	47,270	36,702	83,972	3,230	30,899	16,142	10,533	26,994	3,375			
9	Chingleput ..	1,498,863	17 + 8	46,934	42,830	89,764	3,691	41,326	18,582	16,295	35,580	5,031			
10	Chittoor ..	1,405,947	20 + 10	51,373	41,529	92,902	3,097	45,411	21,684	18,555	40,620	4,462			
11	Coimbatore ..	2,246,621	30 + 12	79,825	64,878	144,803	3,448	71,919	34,185	27,785	62,699	7,948			
12	Cuddapah ..	906,671	16 + 9	51,223	29,203	80,426	3,217	33,578	14,884	13,052	28,282	3,600			
13	Godavari, East ..	1,533,237	20 + 9	48,829	43,769	92,598	3,193	48,784	17,876	20,237	39,395	7,753			
14	Godavari, West ..	1,148,808	14 + 7	37,896	32,541	70,437	8,354	37,092	17,476	14,796	32,854	3,674			
15	Guntur ..	1,884,978	32 + 10	76,764	51,985	128,699	3,064	59,911	21,726	24,945	47,573	10,242			
16	Kistna ..	1,136,858	22 + 10	61,326	44,911	106,237	3,320	43,144	17,087	17,392	35,408	6,143			
17	Kurnool ..	967,039	27 + 10	59,102	28,572	87,674	2,740	35,234	13,672	15,116	29,000	3,897			
18	Madura ..	1,894,650	28 + 11	84,398	82,125	167,063	4,284	62,840	41,302	13,078	55,210	6,583			
19	Malabar ..	8,294,204	37 + 16	127,456	124,226	251,682	4,743	102,891	49,050	37,703	92,319	8,948			
20	Nellore ..	1,440,327	31 + 13	76,461	49,732	126,193	2,863	44,965	14,068	22,351	37,250	4,801			
21	Nilgiris, The ..	123,089	7 + 3	13,859	9,073	22,932	2,293	3,772	2,079	1,298	8,423	312			
22	Rannad ..	1,736,605	24 + 9	78,769	61,890	140,659	4,262	55,363	18,700	23,822	43,937	9,221			
23	Salem ..	2,331,793	34 + 12	101,281	83,068	184,349	4,008	89,890	28,173	38,653	68,258	9,086			
24	South Kanara ..	1,805,485	19 + 8	44,781	38,466	83,247	3,083	39,890	13,144	21,188	35,492	8,974			
25	Tanjore ..	2,133,165	29 + 15	64,691	52,891	117,512	2,871	61,169	16,899	30,572	49,672	8,027			
26	Tinnevely ..	1,877,444	26 + 10	88,101	70,890	158,991	4,416	66,403	35,515	19,175	56,089	7,696			
27	Trichinopoly ..	1,725,889	17 + 10	66,464	54,779	121,243	4,490	53,993	28,675	18,563	48,029	4,953			
28	Vizagapatam ..	3,265,882	51 + 20	116,422	99,192	215,614	8,037	103,944	38,625	45,327	89,599	9,869			
29	Total ..	40,623,388	603 + 262*	1,646,046	1,313,734	2,959,780	3,422	1,313,882	569,266	521,617	1,123,307	149,164			

* Health Inspectors are also doing vaccination work.

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1937-38—cont.

Number.	Districts.	Re-vaccination.				Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Total.	(21) Number of all successful primary vaccination and re-vaccination.	(22) Average cost of each successful case.
		Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.					
(14)	(15)	(16)	(17)	(18)	(19)	(20)					
1	Agency districts—	8,030	1,575	1,830	25.2	25.4	41.0	12,712 14 3	9,868	Rs. A. P. 1 4 7	
2	Godavari	7,333	1,636	1,065	85.8	26.1	33.4	7,723 7 0	7,654	1 0 2	
	Vizagapatam										
	Total of Agency districts	15,363	3,211	2,895	91.0	25.8	49.3	20,436 5 3	17,522	1 2 8	
3	Anantapur	49,196	6,400	10,108	96.6	16.4	35.8	18,452 12 8	36,102	0 8 2	
4	Arcoot, North	68,168	11,795	11,567	98.5	20.8	37.9	29,267 9 11	79,817	0 5 10	
5	Arcoot, South	74,635	8,647	16,452	87.3	15.3	26.7	24,964 0 0	62,676	0 6 4	
6	Bellary	53,677	6,931	14,556	96.1	17.7	34.2	16,182 9 4	33,225	0 7 8	
7	Chingleput	48,904	8,700	11,220	98.0	23.5	28.5	18,558 9 6	44,280	0 6 8	
8	Chittoor	48,110	8,550	8,498	99.0	21.6	34.9	19,573 6 3	44,070	0 6 5	
9	Coimbatore	73,562	11,773	15,855	98.0	20.4	33.3	27,226 8 4	74,472	0 6 0	
10	Ouddapah	48,915	3,500	9,770	94.4	8.9	35.1	16,475 8 9	31,732	0 8 4	
11	Godavari, East	45,019	6,287	11,506	95.8	19.0	29.7	19,046 0 1	45,582	0 6 8	

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12	Godavari, West...	33,439	6,208	7,100	98.3	23.6	34.0	15,335 1 0	39,062	0 6 3
13	Guntur	64,702	6,659	18,117	95.8	12.9	28.8	27,395 0 10	51,242	0 8 2
14	Kistna	63,584	7,619	14,469	95.7	15.5	37.8	23,298 11 1	43,027	0 8 8
15	Kurnool	54,715	4,318	11,554	92.5	10.9	34.5	19,582 9 6	33,318	0 9 5
16	Madura	105,938	27,485	18,935	98.1	31.8	43.6	27,597 15 0	82,695	0 5 4
17	Malabar	150,342	35,024	24,295	98.3	27.8	38.6	37,752 11 7	127,343	0 4 9
18	Nellore	83,827	8,227	14,473	92.7	12.7	32.0	31,076 7 9	46,077	0 10 9
19	Nikurisi, The	19,191	3,132	3,188	98.9	14.6	53.2	7,726 6 2	6,555	1 2 10
20	Rannad	87,216	11,395	23,169	95.2	18.4	31.9	25,260 3 7	65,332	0 7 4
21	Salem	104,913	14,129	20,495	95.0	16.8	35.3	31,973 14 8	83,387	0 6 3
22	South Kanara	44,156	9,427	4,017	98.8	26.8	34.4	17,753 14 4	44,919	0 6 4
23	Tanjore	54,642	7,478	12,560	93.5	15.9	26.8	34,239 0 6	57,150	0 9 7
24	Tinnevely	96,283	14,556	19,332	95.5	19.3	37.8	23,627 5 2	70,955	0 5 4
25	Trichinopoly	67,577	17,352	12,753	97.9	31.7	37.9	21,373 6 10	65,381	0 5 3
26	Vizagapatam	119,448	19,450	22,198	95.2	20.0	33.4	41,425 5 6	103,049	0 6 1
	Total of districts	1,085,506	269,413	347,848	98.4	20.1	34.3	5,96,461 7 7	1,392,720	0 6 10

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18	Conjeeveram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</
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Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1937-38—cont.

Municipalities.	Re-vaccination.			(16)	Percentage of successful cases in which the results were known.		(19)	Total.	(21)	Average cost of each successful case.
	Total number of operations.	Successful.	Unknown.		Primary vaccination.	Re-vaccination.				
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)		
Adoni ..	2,871	1,056	545	100.0	45.4	66.8	1,175 4 10	2,382	0 7 11	
Anakāpalle ..	2,307	410	1,305	96.3	40.9	52.1	851 14 6	1,219	0 11 2	
Anantapur ..	1,331	352	252	100.0	32.6	61.2	610 7 0	925	0 10 7	
Bellary ..	5,145	565	289	99.7	11.6	53.3	1,817 14 0	2,534	0 8 4	
Bezawada ..	6,315	1,163	681	99.9	20.8	53.2	1,245 10 6	3,213	0 6 2	
Bimlipatam ..	1,231	388	13	99.3	27.8	76.5	515 1 0	737	0 11 2	
Bodinayakkandur ..	1,419	444	181	99.8	35.9	54.8	286 6 0	1,481	0 3 1	
Calicut ..	10,976	2,098	1,716	99.1	22.7	81.8	1,715 2 9	6,134	0 4 6	
Cannanore ..	4,245	281	858	97.8	8.3	28.9	797 3 11	988	0 12 11	
Chioacole ..	1,080	678	154	100.0	73.2	69.8	744 10 6	1,153	0 10 4	
Obidambaram ..	1,872	661	225	99.3	37.8	54.6	448 5 0	1,370	0 5 8	
Chinglepat ..	2,051	524	18	100.0	25.8	72.5	471 4 3	1,041	0 7 3	
Chirala ..	3,202	1,378	645	99.5	53.9	121.3	529 9 6	2,287	0 3 8	
Chittoor ..	2,385	296	290	99.9	14.1	43.2	639 9 0	1,002	0 9 8	
Cocanada ..	4,466	308	556	99.6	7.9	31.5	1,675 8 6	2,080	0 12 11	
Cochin ..	2,097	541	154	100.0	27.8	64.0	1,139 14 7	1,460	0 12 6	
Coimbatore ..	13,348	1,315	1,536	99.3	11.1	51.5	2,635 9 8	4,904	0 8 7	

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18	Conjeeveram ..	3,781	646	848	99.9	22.0	59.5	1,367	0 0	8,885	0 5 8
19	Coonoor ..	794	60	72	98.6	8.3	37.4	445	12 0	536	0 13 3
20	Cuddalore ..	5,720	1,196	490	98.8	22.9	52.9	1,125	3 6	3,122	0 5 9
21	Cuddapah ..	2,232	252	425	98.7	13.9	44.1	632	12 4	996	0 10 2
22	Devakottah ..	858	...	701	82.1	23.2	23.2	154	13 6	472	0 5 3
23	Dharmapuri ..	785	251	36	100.0	33.5	43.2	383	0 0	879	0 6 11
24	Dindigul ..	9,633	1,571	1,037	99.3	18.3	73.5	1,150	10 0	3,208	0 5 9
25	Erode ..	4,343	1,399	489	99.8	36.4	58.4	1,108	7 6	3,347	0 5 4
26	Erode ..	2,172	621	33	98.9	29.0	41.6	809	4 9	1,400	0 9 3
27	Gadivada ..	683	137	33	99.2	25.4	46.4	236	0 0	1,930	0 4 1
28	Gudiyattam ..	2,852	250	118	99.6	11.2	49.0	457	7 3	1,209	0 6 1
29	Guntur ..	1,576	132	298	97.9	10.3	30.5	1,068	15 0	1,985	0 8 7
30	Hindupur ..	2,210	858	281	98.1	18.6	64.4	654	14 3	916	0 11 5
31	Hospet ..	2,058	293	729	99.6	22.0	73.3	583	13 9	1,589	0 5 10
32	Karaikudi ..	1,761	511	160	100.0	31.9	54.4	556	2 0	1,179	0 7 7
33	Karur ..	1,387	1,099	67	100.0	83.3	112.4	675	8 0	2,231	0 4 10
34	Kodaikanal ..	238	68	9	100.0	29.7	60.9	437	11 0	387	1 1 8
35	Kumbakonam ..	7,836	320	1,080	99.4	4.7	39.0	1,783	2 5	2,433	0 11 9
36	Kurnool ..	4,898	1,253	322	98.5	27.4	65.3	400	0 0	2,306	0 2 9
37	Madras ..	122,836	14,164	27,147	99.9	14.8	70.0	28,776	4 11	45,289	0 10 2
38	Madura ..	49,908	13,357	6,956	99.6	31.2	121.0	6,715	13 1	22,017	0 4 11
39	Manalore ..	4,951	1,755	234	99.7	37.1	84.9	2,021	8 9	5,666	0 5 8
40	Mannargudi ..	1,507	73	700	99.4	9.0	32.0	594	5 6	729	0 11 1
41	Manlipetam ..	2,948	355	416	97.6	14.0	32.4	1,230	11 0	1,543	0 10 8
42	Miyavaram ..	5,863	501	2,031	99.4	12.7	48.8	916	0 0	1,556	0 9 5
43	Nandyal ..	3,143	393	234	97.0	13.5	46.0	627	2 8	1,041	0 9 8
44	Narasaraopet ..	1,081	170	108	99.1	17.5	41.3	665	13 0	635	1 0 9
45	Nagapattam ..	8,582	1,430	811	99.2	24.8	51.8	1,020	4 9	2,512	0 6 6
46	Nellore ..	8,150	1,344	902	96.7	18.5	59.3	1,681	7 0	2,723	0 9 11
47	Ongole ..	865	482	94	99.8	71.0	59.6	428	0 0	893	0 6 11
48	Ootacamund ..	652	170	41	100.0	27.8	43.1	867	11 6	1,062	0 13 1
49	Palacole ..	1,915	655	527	98.2	47.2	64.7	557	0 0	1,094	0 8 2
50	Palacottah ..	3,380	767	154	99.7	23.7	31.4	710	4 0	1,630	0 6 11
51	Palghat ..	3,795	1,060	362	98.5	31.1	60.7	988	3 0	2,978	0 5 4
52	Palni ..	2,204	633	69	99.9	31.1	72.1	362	6 6	1,363	0 4 3
53	Peddāpāram ..	931	159	269	99.2	24.0	46.5	474	8 6	806	0 9 5
54	Periyakulam ..	2,247	300	255	99.8	15.1	53.3	340	6 0	1,227	0 4 5

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Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1937-38—cont.

Number.	Municipalities.	(2)	(3)	(4)	Total number of persons vaccinated.		(7)	(8)	(9)	Primary vaccination.			(13)
					Average number of persons vaccinated throughout the year.					Successful.			
					Males.	Females.				Under 1 year.	1 and under 6 years.	Total of all ages.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
55	Pollachi	22,112	1+2	2,138	1,303	8,831	1,277	697	376	244	629	54	
56	Proddatur	20,124	1	1,326	567	1,893	1,277	702	541	121	668	25	
57	Rajahmundry	63,526	3+5	4,592	5,419	10,011	1,251	1,922	1,289	565	1,908	24	
58	Saidapet	33,037	2+3	1,912	1,514	3,426	691	1,295	732	480	1,237	37	
59	Salem	102,179	3+9	2,122	3,796	5,918	483	2,711	2,192	493	2,688	...	
60	Sivakasi	15,212	1+1	542	385	877	439	623	535	83	619	...	
61	Srirangam	24,063	1+1	1,365	1,232	2,597	1,299	735	572	155	728	1	
62	Srivilliputtur	32,385	2+2	2,830	2,154	4,984	1,246	893	732	139	882	2	
63	Tadipatri	12,620	1+1	1,472	903	2,375	1,258	307	164	126	250	4	
64	Tanjore	66,889	3+5	5,316	5,126	10,442	1,305	2,814	1,759	891	2,612	77	
65	Tellicherry	30,349	2	1,503	2,653	4,156	2,078	924	562	281	889	28	
66	Tenali	34,530	2+2	2,459	1,473	3,932	933	1,123	566	434	1,015	53	
67	Tinnevely	57,078	5+5	6,906	6,119	13,025	1,311	1,754	1,056	395	1,476	192	
68	Trichinopoly	142,843	6+11	12,147	8,797	20,944	1,232	5,331	2,927	2,035	5,135	61	
69	Tirupati	19,133	1+1	2,418	1,400	3,818	1,009	585	457	121	555	...	
70	Tirupattur	18,299	1+2	2,187	929	3,116	1,089	565	264	186	551	...	
71	Tiruppur	18,059	1+2	1,163	1,106	2,269	756	927	401	401	878	35	

72	Tiruvātur	20,371	1+2	957	563	1,520	507	553	427	125	553	...
73	Tiruvannamalai	27,789	2+2	7,659	6,745	14,404	3,601	1,123	502	821	1,406	...
74	Tuticorin	60,397	3+6	8,572	6,265	15,237	1,496	2,207	1,282	815	2,131	61
75	Udumalpet	12,184	1+1	1,122	713	1,835	918	412	269	110	403	...
76	Udipi	17,250	1	814	613	1,427	1,133	637	172	417	628	...
77	Vaniyambādi	22,940	1+1	1,100	379	1,479	740	439	477	162	639	...
78	Vellore	57,265	2+4	8,770	2,614	6,374	1,662	2,140	1,511	530	2,071	62
79	Vilupuram	20,127	1+2	1,101	540	1,641	537	771	427	321	756	...
80	Virudhanagar	33,081	1+2	1,519	1,364	2,883	961	1,335	830	448	1,321	12
81	Vizagapatam	57,303	3+4	3,874	3,038	6,912	987	1,859	1,174	741	1,931	10
82	Vizianagaram	44,696	3+4	3,265	2,390	6,655	951	1,881	931	791	1,830	48
83	Wajahpet	11,102	1	404	446	850	850	331	246	82	331	...
Total of Municipalities		3,715,160	210+214*	358,157	250,143	608,300	1,436	142,978	92,224	44,475	139,407	2,311
1	Bangalore	...	2	471	379	850	425	222	173	34	297	...
2	Secunderabad	...	6	12,476	12,570	25,046	4,174	5,780	3,920	1,065	5,024	412
Total of Cantonments		...	8	12,947	12,919	25,866	3,237	6,002	4,093	1,099	5,231	412
Poonamallee Health Unit		43,599	4+	4,775	3,943	8,718	2,180	1,640	909	516	1,449	121
Canvey-Mettur Project		...	1	362	316	678	678	237	42	95	141	89
Total of cases vaccinated by Medical Subordinates and Port Health Officers.		...	...	10,977	142	11,119	...	89	8	12	78	8
Total of cases performed under Railway administration		...	...	3,044	1,703	4,747	...	1,674	733	788	1,590	43
Grand total		44,422,597	922+439	2,036,308	1,582,030	3,619,233	2,780	1,461,503	667,275	508,602	1,271,203	152,151

* Sanitary Inspectors of municipalities are also doing vaccination work.
† Health Inspectors.

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1937-38—cont.

Number.	Municipalities.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Total cost.	Number of all successful primary vaccinations and re-vaccinations.	Average cost of each successful case.
		Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
55	Pollachi	3,134	327	547	97.8	12.6	43.2	RS. 51 6 3	9.6	RS. 0 10 11
56	Proddatur	1,195	203	186	98.7	26.1	46.3	708 5 1	931	0 12 1
57	Rajahmundry	8,044	406	423	97.0	5.3	36.4	1,218 3 6	2,314	0 8 5
58	Saidapet	2,181	306	650	98.3	20.0	46.7	430 0 10	1,543	0 4 8
59	Salem	3,207	606	...	99.2	18.9	32.2	1,763 12 5	3,294	0 8 7
60	Sivakasi	259	54	5	99.4	21.3	44.2	299 12 3	673	0 7 2
61	Srirangam	1,866	757	33	99.2	41.3	80.2	511 1 6	1,485	0 5 6
62	Srivillipattur	4,095	725	578	98.0	20.6	40.6	867 0 3	1,607	0 5 8
63	Tadipatri	2,268	517	374	95.7	27.3	63.9	284 5 0	807	0 5 8
64	Tanjore	7,653	322	1,265	98.7	5.0	45.1	1,552 5 0	3,014	0 8 3
65	Tellicherry	3,242	799	529	99.2	23.6	65.6	1,434 0 0	1,648	0 13 7
66	Tenali	2,428	539	547	97.7	23.5	45.8	1,202 14 3	1,584	0 13 1
67	Tinnevely	11,378	1,632	2,429	94.5	18.2	54.5	1,549 15 3	3,108	0 8 0
68	Trichinopoly	15,675	5,237	1,377	97.0	38.6	72.6	2,497 1 9	10,322	0 4 6
69	Tirupati	3,233	462	236	100.0	15.1	54.2	535 11 4	1,037	0 9 1
70	Tirupattur	2,551	412	...	97.5	16.2	54.8	658 8 6	943	0 9 2
71	Tiruppur	1,354	163	532	98.4	19.8	57.6	554 6 2	1,041	0 8 6

72	Tiruvārūr	967	686	122	100.0	81.2	60.8	478 10 0	1,289	0 2 6
73	Tiruvannamalai	12,943	1,983	3,900	99.0	21.8	122.0	708 9 6	3,389	0 3 4
74	Tuticorin	13,065	3,216	2,811	99.3	81.4	88.5	1,551 7 6	5,347	0 4 8
75	Udamalpet	1,423	255	102	97.8	19.3	54.0	415 8 0	658	0 10 1
76	Udipi	797	15	15	99.8	37.0	53.2	408 11 0	917	0 7 0
77	Vaniyambādi	840	427	143	100.0	61.3	46.5	541 6 0	1,066	0 8 1
78	Vellore	4,235	574	732	99.7	16.4	46.2	1,171 0 0	2,645	0 7 1
79	Viluppuram	870	192	...	98.1	22.1	47.1	614 14 6	948	0 10 4
80	Virudhunagar	1,551	873	168	99.8	27.0	51.2	387 1 3	1,694	0 3 8
81	Vizagapatam	4,942	712	227	97.6	15.1	46.1	1,517 3 0	2,643	0 9 2
82	Vizianagaram	4,775	659	1,443	99.8	19.5	55.7	1,508 13 6	2,489	0 9 8
83	Walajapet	519	189	...	100.0	38.4	46.8	301 6 0	520	0 9 3
Total of Municipalities		465,871	83,725	77,325	99.1	21.5	60.1	1,06,494 7 4	223,132	0 7 8
1	Bangalore	628	502	...	93.2	73.9	...	708 0 0	709	1 0 0
2	Secunderabad	19,546	6,327	2,262	93.6	36.6	...	4,624 4 3	11,351	0 6 6
Total of Cantonments		20,174	6,829	2,262	93.6	38.1	...	5,332 4 3	12,060	0 7 1
Poonamallee Health Unit		7,124	1,022	1,438	95.4	18.0	56.7	4,706 5 6	2,471	1 14 6
Cauvery-Mettur Project		441	45	310	95.3	34.4	...	...	...	...
Total of cases vaccinated by Medical Subordinates and Port Health Officers.		11,030	6,351	2,034	96.3	70.6	...	...	...	...
Total of cases performed under Railway administration		3,073	710	482	97.7	27.4	...	...	...	...
Grand total		2,193,219	3,68,095	431,689	96.7	20.9	36.9	7,12,994 8 8	*1,630,383	40 7 0

* This excludes vaccination work done by medical subordinates under railway authorities and in Cauvery-Mettur project.
† The average cost of each successful case was calculated on the number of successful vaccinations performed by the special staff only, viz., Local Fund, Municipal and Poonamallee Unit and exclusive of Rs. 227-8-9 being the total amount of recoveries made for wastage of lymph.

Summary of Statement No. I.

	Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which the results were known.		Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.		Ratio of successful vaccinations per 1,000 of population.		Total cost of department.		Number of all successful vaccinations performed.		Average cost of each successful case.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One year and under six years.			RS.	A. P.			RS.	A. P.
By special staff.																		
Districts excluding municipalities ...	1,274,284	1,685,496	1,313,882	1,685,506	96.4	20.1	603 + 262	3,422	519,266	521,617	34.3	5,96,461	7 7	1,392,720	0 6 8			
Municipalities ...	142,429	465,871	142,979	465,871	98.1	21.5	210 + 214	1,435	92,224	14,475	60.1	1,06,494	7 4	223,132	0 7 8			
Poonamallee Health Unit ...	1,524	7,124	1,640	7,124	95.4	18.0	0 + 4	2,180	903	516	56.7	4,706	5 6	2,471	1 14 6			
Total ...	1,418,307	2,158,491	1,458,501	2,158,501	96.7	21.4	813 + 480*	2,763	662,399	566,608	36.5	7,07,662	4 5	1,618,333	0 7 0			
By Military Cantonments ...	5,722	20,174	6,002	20,174	93.6	38.1	8	3,287	4,003	1,089	...	5,332	4 3	12,060	0 7 1			
By Medical Subordinates and Port Health Officers.	89	11,030	89	11,030	96.3	70.6	...	...	8	12	...	† ...	...	...	...			
By Railway Dispensaries ...	1,674	3,073	1,674	3,073	97.7	27.4	...	...	783	788	...	† ...	...	...	...			
Cauvery-Mettur project ...	237	441	237	441	95.3	34.4	1	678	42	95	...	† ...	...	...	...			
Total ...	1,426,029	2,193,209	1,466,503	2,193,219	96.7	20.9	822 + 480*	2,780	667,275	568,602	36.9	7,12,994	8 8	1,630,383	0 7 0			

* Health Inspectors in rural areas and Sanitary Inspectors in urban areas are also doing vaccination work.

† Cost not furnished.

State * No. II showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in the Madras Presidency in each of the undermentioned years.

(1)	Persons primarily vaccinated in the Madras Presidency.											
	1928-1929.		1929-1930.		1930-1931.		1931-1932.		1932-1933.			
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
Government vaccinators ...	26,393	23,313	26,588	23,884	27,809	21,481	26,459	24,574	31,160	28,118		
Local Fund do. ...	1,255,427	1,164,580	1,270,244	1,165,405	1,257,794	1,162,078	1,343,234	1,225,234	1,233,161	1,127,363		
Cantonment do. ...	5,977	5,877	5,986	5,600	5,346	4,950	6,172	5,465	5,473	5,114		
Municipal do. ...	118,284	116,817	120,176	117,136	122,184	119,872	129,503	127,430	133,177	131,112		
Dispensaries ...	1,054	1,027	1,857	1,842	983	960	989	988	745	740		
Medical subordinates ...	686	441	110	101	262	247	244	186	193	109		
Railways ...	4,624	4,561	688	625	1,345	1,303	1,328	1,274	2,808	2,653		
Total ...	1,412,445	1,316,616	1,425,624	1,314,603	1,411,723	1,311,491	1,508,024	1,385,151	1,406,717	1,295,209		

Statement No. II showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in the Madras Presidency in each of the undermentioned years—cont.

Persons primarily vaccinated in the Madras Presidency—cont.											
	1933-1934.			1934-1935.		1935-1936.		1936-1937.		1937-1938.	
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	
Government vaccinators ...	80,822	26,415	29,681	24,102	26,500	23,432	8,844	7,384	9,471	7,694	7,694
Local Fund do. ...	1,113,453	961,421	1,203,881	1,024,766	1,250,886	1,066,020	1,252,418	1,050,939	1,304,411	1,115,613	1,115,613
Cantonment do. ...	6,783	6,286	4,535	3,971	5,613	4,876	6,002	5,312	6,002	5,231	5,231
Municipal do. ...	144,773	141,093	139,099	134,906	133,379	129,781	132,162	128,020	142,979	139,407	139,407
Dispensaries ...	...	...	...	...	...	...	...	...	...	...	...
Medical subordinates ...	109	107	1,869	1,409	374	342	389	197	89	78	78
Railways ...	1,889	1,769	2,111	1,919	1,961	1,864	1,523	1,457	1,674	1,590	1,590
Poonamallee Health Unit ...	...	...	...	...	...	...	1,917	1,759	1,640	1,449	1,449
Canvey-Mettur project ...	...	...	...	...	...	...	...	...	237	141	141
Total ...	1,297,829	1,137,091	1,381,176	1,191,073	1,418,663	1,226,315	1,403,254	1,195,078	1,466,503	1,271,203	1,271,203

Statement No. III showing the Number of Vaccinations performed in Municipal Towns on Children under One Year of Age (G.O. Mis. No. 1534-L., dated 6th December 1909).

Municipalities.	Number of births available for vaccination during the year 1937-38.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending March 1938.	Percentage of infantile vaccination to total births.	
				1936-37.	1937-38.
Adoni ...	1,345	179	768	63.4	68.0
Anakāpalle ...	1,156	222	612	55.4	52.9
Anantapur ...	679	40	284	52.0	61.0
Bellary ...	2,104	861	1,219	58.8	59.4
Bezwada ...	2,859	966	636	39.3	38.7
Bimlipatam ...	412	70	258	66.7	66.0
Bodinayakkantur ...	1,277	235	818	87.3	91.8
Calicut ...	5,584	409	2,694	55.2	50.3
Cannanore ...	1,812	152	542	52.8	41.7
Chicacole ...	837	128	288	70.0	60.0
Chidambaram ...	951	195	396	51.4	44.3
Chingleput ...	830	86	315	49.7	48.7
Chirala ...	809	116	358	25.9	42.4
Chittoor ...	927	130	385	48.1	46.9
Cocanada ...	2,244	411	724	52.0	52.0
Cochin ...	917	102	606	64.7	67.3
Coimbatore ...	3,344	521	1,673	57.6	66.4
Conjeevaram ...	4,053	304	2,387	80.8	73.8
Coonoor ...	547	62	301	63.9	59.5
Cuddalore ...	2,232	353	1,063	39.8	44.4
Cuddapah ...	1,168	186	448	45.7	47.6
Devakottah ...	381	27	216	...	40.0
Dhārāpnam ...	546	60	320	77.6	73.2
Dindigul ...	2,104	285	1,494	74.0	71.0
Ellore ...	2,400	523	1,042	50.8	56.8
Erode ...	968	130	301	42.3	37.2
Gudivada ...	773	142	386	...	51.7
Gudiyāttam ...	1,239	169	716	81.2	87.0
Guntūr ...	3,722	510	723	23.6	24.3
Hindupur ...	685	76	404	90.0	87.8
Hospet ...	937	125	702	74.5	82.2
Karaikudi ...	703	84	293	40.0	42.0
Karūr ...	756	134	278	23.7	36.7
Kodaikanal ...	351	50	240	97.3	98.6
Kumbakonam ...	2,627	347	1,029	40.8	39.2
Kurnool ...	636	157	639	84.0	84.7
Madras ...	29,919	4,898	12,846	64.0	68.3
Madura ...	8,494	1,863	5,308	69.5	67.7
Mangalore ...	2,981	164	2,531	75.0	86.9
Mannārgudi ...	681	113	357	37.1	38.9
Masulipatam ...	2,669	534	638	37.4	29.2
Māyavaram ...	1,081	103	616	49.9	56.9
Nandyal ...	878	114	379	48.4	51.4
Narasaraopet ...	554	149	261	60.5	67.0
Negapatam ...	2,022	252	857	67.8	48.3
Nellore ...	2,423	307	515	27.2	27.1
Ongole ...	763	120	331	49.7	52.8
Ootacamund ...	1,182	134	699	63.8	65.8
Palacole ...	487	114	321	68.4	66.0
Palamcottah ...	1,112	247	394	55.9	66.7
Palghat ...	2,058	323	1,279	58.8	60.8

Statement No. III showing the Number of Vaccinations performed in Municipal Towns on Children under One Year of Age (G.O. Mis. No. 1534-L., dated 6th December 1909)—cont.

Municipalities.	Number of births available for vaccination during the year 1937-38.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending March 1938.	Percentage of infantile vaccination to total births.	
				1936-37.	1937-38.
Palni	789	152	445	45.9	56.4
Peddāpuram	723	99	454	59.4	68.7
Periyakulam	1,036	165	658	76.7	82.1
Pollachi	791	129	376	56.4	47.5
Proddatūr	865	111	470	64.8	54.3
Rajahmundry	2,381	633	858	45.0	52.4
Saidapet	1,189	176	732	44.2	61.6
Salem	3,825	564	1,867	62.9	57.3
Sivakāsi	485	78	292	63.0	63.0
Srirangam	862	138	455	88.2	89.1
Srivilliputtūr	1,183	178	687	60.0	62.0
Tadpatri	543	52	164	21.2	30.2
Tanjore	2,919	416	1,419	49.0	50.7
Tellicherry	1,150	117	562	60.7	48.9
Tenali	1,557	285	606	41.6	31.3
Tinnevely	2,256	543	896	58.1	46.1
Trichinopoly	5,095	784	2,211	49.0	51.3
Tirupati	605	92	318	71.5	75.5
Tiruppattūr	778	68	269	51.4	34.6
Tiruppur	1,016	151	461	31.4	42.4
Tiruvārūr	900	212	307	66.2	47.4
Tiruvannāmalai	1,173	208	502	40.0	42.8
Tuticorin	2,272	462	1,056	49.0	49.4
Udamalpet	678	82	256	40.4	39.0
Udipi	679	84	331	...	23.8
Vāniyambādi	979	152	500	58.2	58.9
Vellore	3,040	338	1,533	52.4	50.4
Villupuram	667	58	249	48.5	64.0
Virudhenagar	1,344	262	829	58.0	68.5
Vizagapatam	3,424	550	1,072	40.2	43.4
Vizianagram	2,121	379	918	58.9	46.3
Walajapet	374	46	208	57.7	55.6

Statement No. IV.—Comparative Statement showing Infantile Vaccination in Districts for 1936-1937 and 1937-1938.

Districts.	Percentage of infantile vaccination to total births registered.		Increase or decrease.	Districts.	Percentage of infantile vaccination to total births registered.		Increase or decrease.
	1936-37.	1937-38.			1936-37.	1937-38.	
1. Anantapur	42.0	38.9	-3.1	13. Kurnool	32.3	34.9	+2.6
2. Arcot, North	46.4	47.0	+0.6	14. Madara	62.6	60.0	-2.6
3. Arcot, South	32.3	33.4	+1.1	15. Malabar	40.7	39.1	-1.6
4. Bellary	40.0	41.2	+1.2	16. Nellore	32.4	32.0	-0.4
5. Chingleput	34.4	33.5	-0.9	17. Nilgiris, The	60.6	47.8	-12.8
6. Chittoor	43.4	45.4	+2.0	18. Ramnad	26.2	35.7	+9.5
7. Coimbatore	38.2	40.4	+2.2	19. Salem	31.5	33.8	+2.3
8. Cuddapah	42.3	44.2	+1.9	20. South Kanara	29.8	26.8	-3.0
9. Godāvāri, East	31.9	29.8	-2.1	21. Tanjore	24.6	16.5	+1.9
10. Godāvāri, West	34.1	36.1	+2.0	22. Tinnevely	40.4	47.1	+6.7
11. Guntūr	28.8	30.9	+2.1	23. Trichinopoly	43.6	46.4	+2.8
12. Kistna	27.6	37.0	+9.4	24. Vizagapatam	28.4	34.2	+5.8

FORTY-EIGHTH ANNUAL REPORT OF THE SANITARY ENGINEER TO THE GOVERNMENT OF MADRAS FOR THE YEAR 1937.

The following statement gives a bird's eye view of the main activities of the department during the year :—

Serial number and name of work.	Estimated value or works.	Total number of works.
RS.		
<i>I. Water-supply—Urban.</i>		
1. New works sanctioned for execution	47,72,500	9
2. Works under execution	66,02,950	30
3. Investigation completed	14,01,000	3
4. Investigation in progress	10,32,500	4
5. Investigation reports submitted to Government	4,41,000	2
6. Investigation reports under preparation	12,32,000	2
7. Preparation of plans and estimates in progress	74,92,000	14
8. Plans and estimates submitted to Government	74,52,000	13

II. Drainage.

1. New works sanctioned for execution	Nil.	...
2. Works under execution	39,17,564	7
3. Investigations completed and reports under preparation.	27,80,000	2
4. Investigation in progress	20,72,000	2
5. Investigation reports submitted to Government	16,14,000	4
6. Preparation of plans and estimates in progress	45,31,700	8
7. Plans and estimates submitted to Government	22,27,000	2

III. Water-supply Schemes.

2. The number of towns (both municipal and panchayats) which had the benefit of protected water supply scheme was increased to 42 as against 41 in the previous year by the addition of the Saidapet water-supply scheme. The execution of new water supply scheme was in progress or was ready to be taken up in the following year :—

Name of town.	Estimate.	Year of commencement.	Value of work.	Agency for execution.	Remarks.
			During the year.		
			Up to the end of the year.		
a. Arkonam	1,92,400	1934	...	P.W.D.	The infiltration gallery and suction well completed. R.C. reservoir under construction. Action taken to call for tenders for electric motors and pumps.
b. Saidapet (main).	3,05,000	1929	15,000	Do.	The works were completed and handed over to the municipality during the year.
c. Tiruvellore	1,32,400	1934	340	Do.	Sinking the experimental well was completed and yield test conducted. Tenders for pipes called for.
d. Virudhunagar.	7,26,000	1932	68,105	Do.	The distribution system nearing completion. Motors and pumps had been erected. Other works in progress.
e. Peddapuram	1,07,480	1935	2	Do.	Land acquisition said to be pending with the Revenue Department.
f. Palacole	4,22,500	1927	975	Do.	Work completed

Name of town.	Estimate.	Year of commencement.	Value of work.	Agency for execution.	Remarks.
			During the year.		
			Up to the end of the year.		
g. Penukonda	47,736	1936	...	District Board. Under the supervision of this Department.	Work not taken up by District Board.
h. Karaikudi	33,000	1936	11,269	Municipal Council. Under this Department's supervision.	The work was completed and a final yield test in the Jambai Oothu well has to be conducted.
i. Karur	2,94,100	1937	14,955	Engineering firm. Under Sanitary Engineer's supervision.	Tenders for all works were selected. Infiltration well No. 11 and suction well were nearing completion. Laying and jointing the 12" C.I. syphon pipes and 10" Hume steel pumping main and the R.C. reservoir were in progress.
j. Tiruppur	1,84,000	1937	4,875	Engineering firm. Under Sanitary Engineer's supervision.	Tenders were called for and selected work in progress.
k. Sembiam	1,25,000	...	...	District Board. Under S.E.'s supervision.	To be taken up.
l. Vayalpad	41,000	...	...	Do.	Do.
m. Batlagundu	71,000	1937	2,542	Do.	The sinking of 18' diameter well was in progress.
n. Manapparai	54,000	1937	...	Do.	Started late in the year.
o. Karamadai	17,400	1937	1,380	Do.	Work in progress.
p. Salem-Mettur	22,97,000	1937	3,358	Engineering firm under S.E.'s supervision.	The construction of the pump house was completed. Tenders for supply of pipes for the pumping main, etc. to a length of about 7 miles were called for and Government selected the tenders of Mysore Iron Works in 1 of 1938.
q. Srirangam (cheap scheme).	85,000	1937	1,052	Do.	The construction of motor and pump house was in progress. Tenders for other works were called for.
r. Adoni (Hagari scheme).	7,70,000	1936	40,080	...	Wells and syphon had been completed and the pumping main in progress.
s. Pollachi W.S.	4,78,000	1937	...	...	Tenders for the various items of works under consideration.
t. Vizagapatam W.S. (Mehadrigedda)	6,14,000	...	...	...	Sanctioned but held in abeyance pending investigation of sources of a better W.S.
u. Chodavaram W.S.	70,000	...	...	District Board. Under Superintending Engineer's supervision.	Work to be started.
v. Cuddapah W.S. (Pennar scheme).	2,85,000	1937	...	Engineering firm. Under Superintending Engineer's supervision.	Tenders were called for.
w. Bodinayakanur W.S.	5,80,000	1937	4,800	Do.	Tenders had been called for various items.

3. The existing systems are found wholly inadequate to meet the needs of the growing population of the towns. Improvements and extensions of the existing schemes are in progress or completed in the following towns :—

a. Anantapur extension.	W.S.	12,650	1933	...	P.W.D.	The extension to northern half of Georgepet had been completed and that to Police line was nearing completion.
b. Bezwada Impts.	W.S.	71,000	1930	...	Do.	Information as to progress not available.
c. Nellore Impts.	W.S.	96,000	1930	462	Do.	The work of constructing infiltration-gallery between wells Nos. 1 and 2 not yet started.
d. Proddatur Impts.	W.S.	32,580	...	9,121	Do.	All the works completed.
e. Saidapet extension to Mambalam, Guindy.	W.S.	60,570	1932	6,874	Do.	The whole work excepting the laying of pipes over the S.I.Ry. bridge completed.

Serial number and Name of town.	Estimate.	Year of commencement.	Value of work.		Agency for execution.	Remarks.
			During the year.	Up to the end of the year.		
f. Coimbatore W.S. extension of mains and additional fountains.	83,200	1936	...	72,150	Municipal Council. Under Superintending Engineer's supervision.	The work was completed and a revised estimate for Rs. 74,000 had since been sanctioned.
g. Ellore W.S. Extension to head-quarters area.	17,250	1935	...	...	Do.	Work completed.
h. Masulipatam W.S. Extension of pipe line.	87,200	1932	911	65,377	Do.	Works practically completed.
i. Trichinopoly W.S. (i) Extension of pipe line in Bishop Heber Road, Tennur.	15,500	1937	19,977	10,977	Do.	Work has been completed during the year and water supply has been given to Tennur area.
(ii) Laying a feeder main to Railway sump.	86,700	...	...	...	Do.	The work has not yet been taken up for execution.
j. Coonoor W.S. Impts. Part II.	1,96,000	1937	12,500	12,500	Engineering firm. Under Superintending Engineer's supervision.	The construction of R.C. Reservoir is in progress.
k. Guntur (Yengalapaalaiyam) W.W. Impts.	72,500	...	10,619	72,137	...	Work is nearing completion.
l. Tuticorin W.S. Extension of pipe lines.	52,880	1936	38,361	...	Municipal agency. Under Superintending Engineer's supervision.	The work was completed.
m. Erode W.W. Impts., electrification of pumping plant.	50,800	1937	10,000	10,000	...	Construction of suction well and low lift motor and pump house was in progress.
n. Tiruvannamalai W.S. extension of pipe line.	17,120	1937	15,316	...	Municipal agency. Under Superintending Engineer's supervision.	Purchase of C.I. pipes specials, G.W.I. pipes and specials, valves, etc., were made and the work was in progress.
o. Coonoor W.W. Impts.	1,92,000	1937	...	...	...	Tenders had been called for and that of Messrs. Hindustan Construction Co., had been accepted by the end of the year.
p. Dindigul W.S. Impts.	12,400	1936	1,060	7,816	...	An additional well has been sunk at Odukkam to a depth of 30' and the construction of steining walls and pump chamber has been completed. Tenders were called for.
q. Bezwada W.S. Rearrangement of distribution system.	1,82,500	1937	...	...	...	...

The actual expenditure as per figures available has been taken to represent value of work where more accurate information is not available.

4. Detailed plans and estimates in respect of the following schemes were completed during the year and submitted to Government for sanction:—

	Estimated cost.
(1) Manapparai water-supply	Rs. 59,000
(2) Bodinayakanur water-supply	5,80,000
(3) Cuddalore water-supply—Extensions to new town	6,48,000
(4) Madura water-works Improvements—III stage	19,80,000
(5) Cuddapah water-supply (Pennar scheme)	2,85,000
(6) Pollachi water-supply	4,78,000
(7) Guntur water-supply Improvements (Tadepalle scheme)	14,50,000

	Estimated cost.
(8) Srirangam water-supply (cheap scheme)	85,000
(9) Mettupalaiyam water-supply	1,17,000
(10) Calicut water-supply	13,97,000
(11) Coimbatore water-supply—Improving the quality of water	2,40,000
(12) Gudiyattam water-supply Improvements	98,000
(13) Coimbatore water-supply—extension to high level areas and Agricultural and Forest Colleges	35,000
(14) Ellore water-works (Improvements to filter beds)	40,000

5. Plans and estimates for the following schemes were under preparation:—

Srivilliputtur water-supply	5,63,500
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6. Investigations were completed in respect of the following schemes:—

(1) Kurnool water-supply	2,68,000
(2) Dharapuram water-supply	1,73,000
(3) Dindigul water-supply (Distant source)	7,75,000
(4) Palamcottah water-supply	4,57,000

7. Investigation reports were prepared and submitted to Government in respect of the following schemes:—

(1) Kurnool water-supply	2,68,000
(2) Dharapuram water-supply	1,73,000
(3) Dindigul water-supply (Distant source)	7,75,000
(4) Palamcottah water-supply (Completed and sent to Government early in January 1938)	4,57,000

8. Investigations were under progress in respect of the following schemes:—

(1) Trichinopoly water-supply—Redesigning of distribution system	7,50,000
(2) Arantangi water-supply—Constructing an experimental well and conducting yield test	75,000
(3) Tirupati-Tiruchanur water-supply	1,40,000
(4) Pithapuram water-supply	67,500

Item 3 was held in abeyance under orders of Government and another source near the confluence of Swarnamukhi and Kalyani was taken up for investigation. The latter source was intended to augment water-supply at Tirupati merely while Tirupati-Tiruchanur scheme was

intended both to augment water supply at Tirupati and give a protected water supply to Tiruchanur.

9. The following investigations sanctioned by Government could not be taken up during the year for want of staff :—

	Estimated cost.
	RS.
(1) Palni water-supply—III stage	1,00,000
(2) Tanjore water-supply improvements	6,62,000
(3) Sivaganga water-supply	50,000
(4) Udumalpet water-supply	4,20,000
(5) Anakapalle water-supply	67,500
(6) Tenali water-supply	2,30,000
(7) Kumbakonam water-supply investigation—This has been held over pending the enhancement of the taxes by the Municipal Council. The Council has since done so.	

10. Preliminary estimates with approximate costs of schemes, etc., connected with protected water-supply were furnished in the following cases after due inspection by the Deputy Sanitary Engineers.

- (1) Vriddachalam Panchayat water-supply.
- (2) Water-supply to St. Joseph's Orphanage—Adaikalapuram, Tinnevely.
- (3) Sivaganga Panchayat water-supply.
- (4) Singampuneri water-supply.
- (5) Sankaranainarkoil water-supply.
- (6) Sholavandan water-supply.
- (7) Kaveripatnam water-supply.
- (8) Shevaroy's water-supply.
- (9) Siruguppa water-supply.
- (10) Chirala water-supply scheme.

IV. Drainage.

11. Bezwada drainage scheme came into operation during the year and the number of municipal towns possessing scientific drainage systems increased from 3 to 4. Construction of new drainage schemes was in progress in the following towns :—

Serial number and name of town.	Estimate.	Year of commencement.	Value of work.		Agency.	Remarks.
			During the year.	Up to the end of the year.		
1. Bellary (Brucepet drainage scheme).	4,39,900	1935	...	...	P.W.D.	Intercepting sewers and outfall sewers completed.
2. Salem	5,45,000	1934	34,958	1,32,456	Municipal Council. Under Sanitary Engineer's supervision.	Piecemeal execution of III instalment of construction of drains.

Serial number and name of town.	Estimate.	Year of commencement.	Value of work.		Agency.	Remarks.
			During the year.	Up to the end of the year.		
3. Tirupati	3,58,000	1932	23,448	Not available.	Municipal Council under Sanitary Engineer's supervision.	Piecemeal execution of III instalment of drains. The laying of sewage farm and the intercepting sewer included in the III instalment could not be taken up due to water logged condition of the soil.
4. Srirangam drainage. Extension to Ammamantapam and Royagopuram.	13,100	1936	1,742	1,800	Do.	The whole work was finished during the year and revised estimates amounting to Rs. 8,490 were prepared by the Council.
5. Srirangam drainage (main scheme).	3,34,500	1937	1,758	1,758	Engineering firm under Sanitary Engineer's supervision.	Tenders had been called for and selected for intercepting sewer, construction of open drains and pumping station and pumping main. Supply of pipes for the pumping main was completed and part of land acquisition was also over.
6. Negapatam drainage.	7,13,640	1937	902	901	Do.	Tenders for the intercepting sewers open drains, main pumping station, pumping plant, pumping main and sewage farm were called for and selected.
7. Coimbatore drainage.	16,88,600	1937	14,306	14,306	Do.	Tenders for the main conduits were selected and the work of constructing main outfall egg shaped conduits 26" x 39" is in progress.
8. Rajahmundry	2,66,874	1937	1,378	1,378	Do.	Tenders for the egg-shaped conduit, pumping station, pumping main, pumping plant and laying a portion of sewage farm are called for and selected. The work is in progress.
9. Cochin	2,97,825	...	...	...		The Harbour authorities and Chamber of Commerce and the Municipal Council have objected to the site of the sewage farm. Revised proposals for revision of the scheme called for by the Government have been submitted to Government.

12. Plans and estimates were under preparation in respect of the following works :—

	Estimated cost.
	RS.
(a) By permanent staff—	
(1) Kodaikanal drainage	69,000
(2) Madanapalle do.	99,700
(3) Ellore do.	7,00,000
(b) By temporary staff—	
(4) Palni do.	3,00,000
(5) Tuticorin do.	15,50,000
(6) Virudhunagar do.	7,23,000
(7) Tenali do.	3,75,000
(8) Dindigul do.	7,23,000

13. Plans and estimates for the following schemes were prepared and sent to Government during the year.

(1) Vizianagaram drainage	6,77,000
(2) Trichinopoly do.	15,50,000

In regard to Trichinopoly drainage scheme, Government have since ordered the revision of plans and estimates so as to provide for a pucca underground drainage scheme.

Actual expenditure as per available figures taken in the absence of more accurate information.

14. Investigations were completed and investigation reports sent to Government in respect of the following works :—

(1) Dharapuram drainage	...	...	5,10,000
(2) Pollachi do.	...	...	3,88,000
(3) Karur do.	...	...	4,66,000
(4) Vellore (Supplemental) drainage	...	...	3,00,000

(a) Investigations were completed and investigation reports were under scrutiny in respect of the following schemes.

(1) Conjeeveram drainage	...	...	13,40,000
(2) Masulipatam do.	...	...	14,40,900

(b) Investigations were in progress or investigation reports were under reference.

(1) Cocanada drainage	...	...	16,00,000
(2) Tiruppur do.	...	...	4,72,000

15. (a) The following investigations sanctioned by Government remained yet to be taken up for want of staff.

(1) Udampalpet drainage	...	...	4,72,000
(2) Tanjore do.	...	...	11,60,000
(3) Calicut do.	...	...	12,20,000
(4) Chidambaram do.	...	...	5,00,000

The investigation of Calicut drainage had to be deferred also for want of survey map of the town.

(b) Preliminary estimates with approximate costs of schemes, etc., were furnished after inspection by the Deputy Sanitary Engineers in the following cases connected with the drainage of the towns :—

- (1) Sivakasi drainage.
- (2) Iyempalaiyam Panchayat drainage.
- (3) Sholavandan "
- (4) Uttamapalaiyam "
- (5) Rasipuram "
- (6) Naidupet "
- (7) Repalle " (Nellore).

V. Miscellaneous—

16. A statement showing particulars of estimates for sanitary works received from local bodies, scrutinised and sanctioned by this department is enclosed (Annexure I). 71 estimates for Rs. 5,35,226 were sanctioned by this department during the year as against 131 estimates for Rs. 6,16,300 in 1936. This department continued to scrutinise and approve estimates for sanitary equipments to Government buildings in Madras until Government in their order No. Ms. 1714, dated 19th August 1937 authorised the Executive Engineers of the P.W.D. to certify as to the suitability of the designs as per by-laws of the Madras Corporation.

17. A statement showing the sanitary works done as per Public Health Board designs is annexed (Annexure II).

18. *Water-supply—Periodical analysis.*—The protected water supplies were inspected by the staff of the King Institute, Guindy, in connection with the periodical analysis of water and reports of analysis sent to this office and the local bodies concerned. The local bodies were advised suitably to take steps to improve the quality of water as and when it was found defective.

19. *Experiments on Water Purification at Kilpauk.*—As in the previous year, experiments on Jewell Carbon with reference to water purification were carried out at the Experimental Filters, Kilpauk, under the supervision of the Sanitary Engineer to Government and the Director of King Institute, Guindy. The results of the experiments were placed before and discussed by the Committee on Water and Sewage Purification.

20. *Engineering College Sewage Disposal works.*—The maintenance of the Engineering College sewage disposal works continued to be under the supervision of this department.

21. *Lectures in Sanitary Engineering.*—The Instructor in Elementary Sanitary Engineering attached to this department delivered his course of lectures in Elementary Sanitary Engineering to the students of Sanitary Inspectors' course in the Medical College, Madras.

22. *Engine Drivers and Water-works Fitters examinations.*—As in the previous year, the examinations were held in January 1937 and the results are as follows :—

		Number passed.	
		1936.	1937.
Engine Drivers—			
Competency	...	38	28
Service	...	51	66
Water Works Fitters—			
Head water works fitters	...	10	18
Pipe line fitters	...	16	25

23. *Execution.*—(i) The Sanitary Engineer to Government inspected the water-supply and drainage schemes under execution by the P.W.D. and gave advice to the Executive Engineers wherever necessary. The works done by the local bodies were inspected by the officers of the department.

24. *Inspection—Maintenance.*—Thanks to the extra work entailed on the department without any corresponding addition to its strength, the rule of periodic inspections of maintenance of schemes could not be adhered to.

25. *Pumping plant and machinery.*—The inspection of the municipal pumping plants were made by the Mechanical Expert, Mr. S. A. Davis. An account of the work turned out by this officer is annexed. Annexure III).

Tabulated statements containing instructive particulars including those of fuel consumption, expenses and receipts of the various water works are appended (Appendix A to C) which would no doubt be of

interest and use to the local bodies for comparing the standard of consumption and guidance for bringing down the running cost and running the stations more economically. The comparative statement in Appendix III shows the figures for prompting particulars in 1936 and 1937 as far as they are available. The figures reveal considerable savings effected by many councils in working the plants as a result of the advice given by the Mechanical Expert.

26. In their order No. 1593, P.H., dated 8th July 1937, the Government accepted the recommendation of the Chief Engineer, General, Buildings and Roads, that tenders for pumping plant and machinery required for Municipal water and drainage works should be referred to the Chief Inspector of Boilers or the Superintendent, Public Works Workshops for advice. As the work of the Mechanical Expert increased considerably owing to the increasing number of specifications, he was called upon to draw up in respect of new plants in connection with sanctioned schemes or projected electrifications, I had therefore to apply to Government for sanction to the appointment of an Assistant Mechanical Expert and a Mechanical Draftsman. The result is that the construction of the schedule of normal units of consumption adverted in the report of 1936 had to be put by, during the year under report.

27. *Rural Water-Supply.*—The Government have decided to entrust the scheme of providing protected water-supply for rural parts to the Collectors of the districts so that this department as it is, has nothing to do with rural water-supply schemes.

28. *Municipal Engineers.*—The number of Municipal Engineers continued to be what it was during the year except for the appointment of Mr. S. L. N. Moorthy, as my Personal Assistant and grant of the leave to Mr. S. Ramalinga Mudaliyar from 2nd October 1937. The leave vacancy was filled up temporarily by the appointment of Mr. C. G. Ponappa, Water Works Supervisor, Coimbatore. The system requiring Municipal Engineers to submit fortnightly diaries of their work has been introduced during the year under report.

Of the existing engineers, two, viz., the Engineers at Guntur and Pollachi are to be discharged on the appointment of regular members of the service. Of these the Engineer at Guntur has since been recommended for appointment as regular member. The seven municipalities which were notified in 1936 remain without Municipal Engineers.

Kodaikanal municipality was notified during the year for the appointment of a Municipal Engineer, but as result of the council's opposition, the notification was recently cancelled.

Bodinayakanur Municipality was also notified similarly for the appointment of a temporary Municipal Engineer in connection with the execution of its recently sanctioned water-supply scheme. An Engineer has yet to be appointed here too.

29. *Direction.*—Throughout the year I continued to be the Sanitary Engineer and late Khan Sahib Muhammad Howth Sahib Bahadur continued to be Deputy Sanitary Engineer, Southern Circle, Mr. A. V. Raman, Deputy Sanitary Engineer, Northern Circle, has been granted long leave since 21st June 1937. Late Mr. B. V. Narayana

Rao, officiated as Deputy Sanitary Engineer, Northern Circle, from 24th July 1937 to 2nd January 1938 when he expired and I was in charge of Northern Circle from 22nd June to 24th July 1937. My Personal Assistant Mr. S. L. N. Moorthi, B.A., B.E., A.M.I.E. joined duty on 4th June 1937 and continued throughout the rest of the year under report. Mr. S. A. Davis continued to be my Mechanical Expert.

12th July 1938.

G. V. RAO,
Sanitary Engineer to Government.

ANNEXURE I.

Statement showing the number and aggregate estimated cost of Sanitary Works prepared by local bodies and sanctioned or recommended for sanction by the Sanitary or Deputy Sanitary Engineers in 1937.

Particulars.	Medical institutions.		Markets and Slaughter houses.		Latrines.		Water-supply.		Drainage.		Miscellaneous.	
	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
Below Rs. 2,500	..	..	1	1,265	..	..	36	26,266	3	3,954	..	..
Rupees 2,500 to Rs. 10,000 ..	4	28,320	1	4,975	..	..	8	39,335	2	12,835	..	..
Rupees 10,000 to Rs. 50,000...	1	25,850	4	82,575	..	..	5	97,225	4	99,886	1	14,050
Above Rs. 50,000	..	..	..	..	..	..	..	..	..	..	1	98,690
Total	5	54,170	6	88,815	..	..	49	1,62,826	9	1,16,675	2	1,12,740

Number of estimates 71 estimated to cost Rs. 5,35,226 as against 131 estimates costing Rs. 6,16,300 in 1936.

ANNEXURE II.

Statement of works constructed on the basis of Public Health Board type-design by municipalities and local boards during the year 1937.

Number and Name or description of work.	Locality, name of town or village.	Number of the type-design on which work was based.	Number and date of Sanitary or Deputy Sanitary Engineer's professional sanction.	Date of commencement of work.	Date of completion of work.	Full cost of the work.	Remarks as to its success or failure as type-design construction.
Municipalities.							
1 Dry earth latrine—six seater	Meat market, Tinnevely.	San. No. 141 of 1934.	..	10th March 1937.	March 1937.	Rs. 333	Satisfactory.
2 Do.	Weekly shandy behind Rice mill, Tinnevely Town.	Do.	..	20th March 1937.	March 1937.	319	Do.
3 Do.	Inside Pennington Market, Tinnevely Town.	Do.	..	10th March 1937.	March 1937.	308	Do.
4 Dry earth latrine—four seater	Municipal Office compound, Tinnevely Town.	Do.	..	21st April 1937.	7th June 1937...	253	Do.
5 Dry earth latrine—six seater	Odavarapatty village, behind Ranganaatha Vilas School.	Do.	..	3rd March 1937.	March 1937.	319	Do.
6 Scavengers quarters (one block of four tenaments).	South Mount Road in Scavengers' colony, Tinnevely Town.	San. No. 61 of 1917.	..	13th June 1937.	18th October 1937.	1,305	Do.
7 Dry earth latrine of six seats	Parapatty, Dindigul.	P.H. Board 193.	..	3rd March 1937.	March 1937.	328	Working very satisfactorily.
8 Latrine for high school	Tiruppur	T.D. No. 141 of 1934.	Government sanction obtained.	April 1937.	December 1937.	40 seats 10 seats 5 seats	Not yet brought into use.
9 Dry earth latrine	Ammanpatty Street, Sivakasi.	San. No. 46 of 1927.	..	July 1937	September 1937.	Rs. 413	Success.
10 Do.	Viswanathan Road, Sivakasi.	Do.	..	Do.	Do.	330	Do.
11 Latrine of 3 seats	In Municipal Office, Tuticorin.	141 of 1934	Amount is within the powers of sanction of the Municipal Council.	..	15th March 1937.	326-6-6	
nches masonry drains	Keracope Street, Tuticorin Municipality.	44 of 1906	3360-M, 4th December 1935.	..	31st March 1937.	110	
13 9 inches do.	Do.	Do.	Do.	..	Do	-8-0	

*Statement of works constructed on the basis of Public Health Board type design by Municipalities
and Local Boards during the year 1937—cont.*

Serial number and name or description of work.	Locality, name of town or village.	Number of the type-design on which work was based.	Number and date of Sanitary or Deputy Engineer's proposal sanction.	Date of commencement of work.	Date of completion of work.	Full cost of the work.	Remarks as to its success or failure as type-design construction.
<i>Municipalities—cont.</i>							
14. Latrine	Near Pannagarum, Tuticorin.	141 of 1934	Amount is within the powers of sanction of Municipal Council.	...	14th July 1937.	Rs. 576 0 4	
15 Do.	Near Cruzfernandezpuram, Tuticorin.	Do.	Do.	...	Do.	565 14 0	
16 Do.	Near Sethupathai, Tuticorin.	Do.	Do.	...	Do.	231 15 5	
17 Do.	Near Sevendakulam, Road, Tuticorin.	Do.	Do.	...	17th September 1937.	564 0 1	
18 Do.	Near Palamcottah, Road, Tuticorin.	Do.	Do.	...	...	564 6 8	
19 15 additional shops in the market buildings.	Palamcottah	...	638 M., dated 3rd November 1934.	...	1937-38	8,225 0 0	The new shops were constructed on the same plan as the previous shops and no type-design was followed. But these shops are popular and may be declared successful.
20 Watchman's quarters	East of the existing drivers' quarters, Tiruvannamalai.	San. No. 253 of 1935.	Regr. No. 30 of 1936.	Last week of March.	First week of May 1938.	555 9 0	The structure is in good condition.
21 Dry earth latrine 6 seats	Old market, Neganatam.	San. No. 49 of 1927.	No sanction.	8th July 1936	28th February 1937.	414 7 0	
22 Do.	In the south bank of Thamarakulam.	Do.	Do.	8th March 1937.	15th April 1937.	447 13 0	
23 Dry earth latrine 8 seats	Cooks Road, Neganatam.	Do.	Do.	15th March 1937.	Do.	533 1 0	
24 Dry earth latrine 6 seats	Pudipalli North, Neganatam.	Do.	Do.	16th April 1937.	30th April 1937.	438 11 0	
25 Do.	Voikkankarai street, Velpalayam, Neganatam.	Do.	Do.	15th December 1937.	31st December 1937.	445 0 0	
6 9" masonry drain 400 R.ft. and a flame pipe culvert.	Swaminimalai Road, Kumbakonam.	...	...	December 1936	February 1937.	850 0 0	Success.

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27	Do.	145 R.ft.	Melakavari Mahamedan Main street, Kumbakonam.	T.D. 103	...	February 1937.	March 1937	...	220 0 0	Do.
28	Combined latrine and urinal		In Kadalangudi street, P. H. Board School, Kumbakonam.	Do.	...	April 1937	May 1937	...	170 0 0	Do.
29	A latrine of 2 seats		In Travellers' Bungalow, Kumbakonam.	Do.	...	March 1937	April 1937	...	140 0 0	Do.
30	4" masonry drain 115 R.ft.		In Fish market, Kumbakonam.	...	...	October 1937	October 1937	...	85 0 0	Do.
31	2 dry earth latrines-12 seats		Rajahmundry	T.D. No. 141 of 1934.	Letter No. 1233M, dated 9th April 1937.	20th December 1937.	Under construction.	7,420 0 0	Work is under progress.	...
32	Out-patients dispensary		Nidanamdoddi, Anakapalli.	...	...	...	...	...	...	...
33	Dry earth latrine of 6 seats		Municipal Office buildings, Hospet.	T.D. No. 193 of 1914.	...	October 10th June 1937.	5th October 1937.	414 2 0	...	...
34	Do.	3 seats	Municipality, Madigera, Hospet.	Do.	...	5th June 1937	22nd September 1937.	225 0 0	...	...
35	Do.	6 seats	Devangapet, Hospet.	Do.	...	15th July 1937.	23rd February 1938.	418 10 0	...	...
36	Dry latrine of 6 seats		In T.S. No. 5, in Pullikuthi Nanjan, Salem.	Do.	...	16th February 1937.	19th March 1937.	282 0 0	Quite popular.	...
37	Do.		No. 4, Vellakutai street, Salem.	Do.	...	27th February 1937.	20th March 1937.	348 0 0	Do.	...
38	2 sets of 5 seats latrine for men and women.		In the Bus stand in the Victoria Market, Salem.	T.D. No. 49 of 1927.	...	9th August 1937.	5th September 1937.	468 0 0	Do.	...
Local Boards.										
39	Operation theatre in the Local Fund Hospital.		Sankara Koli, Tinnevely District.	T.D. No. 123 issued with Proceedings No. 770-S., dated August 1914.	...	1st October 1936.	30th March 1937.	1,876 3 0	...	...
40	Main Outpatients buildings.		At Kayalpatnam, Tiruchendur Taluk, Tinnevely District.	Regr. No. 40 of 1937. Sanitary Engineer's No. 1393/M, dated 24th April 1937.	...	August 1937	In progress. (Will be almost completed before the end of March.)	11,500 0 0	...	...
41	Slaughter House		Virdhachalam Town, South Arcot District.	T.D. No. 155	...	30th January 1937.	13th March 1937.	880 0 0	...	...

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ANNEXURE III.

Comparative Statement of Pumping Particulars, for the year 1936-37.

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
1 Anantapur ...	5.3	2.7	A marked improvement in the operating costs and general expenditure in maintenance is observed. It is unfortunate that the council are persistent in pressing for electrification of the station and scrapping the gas units which are still good for a number of years of service. The actual expenditure for running the station with the gas units are compared with the rate of energy proposed to be charged show the gas unit to be the more economical plant.
2 Bellary ...	4.1	7.8	Although the pumping plant was maintained in a fairly satisfactory condition the operating costs were unduly swelled, consequent on the high cost of charcoal. Due to the persistent demand for a more copious supply, the working hours were increased and both units were commissioned for pumping. The seriousness of incurring a risk in operating a water works pumping plant, without a standby on a non-stop basis is pointed out to the Municipality and active measures for installing a third unit of a larger capacity or replacing the present units with others, more adequate for the service, is advised and receiving attention.
3 Bellary (Booster).	...	...	During the year the new booster station for boosting up water to the Cantonment area was brought into commission. This pumping plant consists of two Worthington Simpson centrifugal pumps suitable for dealing with 30 gallons of water at a total head of 40 feet. The pumps are directly coupled to G.E.C. squirrel cage motors operating on a 400 volt 3 phase 50 cycle system. Power being taken from the Municipal supply mains, the pumping plant was supplied by Messrs. Richardson and Cruddas. The taking over tests of the Mechanical Expert show the plant to be up to the guarantees called for and the equipment satisfactorily installed. The council were advised to instal a water meter for recording the quantity of water pumped and the electrical units consumed for pumping purposes as well as pump house lighting.

Comparative Statement of Pumping Particulars, for the year 1936-37—cont.

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
4 Bezwada Water Works.	...	6.5	The pumping plant at this works is in a satisfactory condition. It has been pointed out to the Municipality that the cost of operating the station as compared with an oil plant for a similar capacity was not as economical and a reduction in the cost of energy to a more equitable tariff was necessary. The standby diesel plant was examined and the prohibitive costs for repairs as well as consideration of its obsolete type resulted in recommendations being made to sell the unit. The need for maintaining a costly establishment to operate the oil plant in addition to the electrical plant has been pointed out to the council and necessary advice was rendered for installing a 3rd electrical pumping unit in view of the Thermal Scheme coming into existence, and at a cheaper tariff.
5 Bezwada Drainage.	...	...	The plant was brought into commission during the past year. This consists of electrical driven centrifugal pumps of the Worthington freflo type. The plant was purchased through the Indian Stores Dept., Messrs. Richardson & Cruddas being the supplying contractors for the entire equipment. The plant was taken over by the Municipality after the Mechanical Expert's report that the pumps fulfilled the guarantees for which they were installed. During the year the plant was inspected and found to be satisfactorily maintained. Consequent on the recording apparatus for metering the quantity of sewage pumped not yet being installed, it was not possible to estimate the rate of pumping.
6 Chidambaram.	10.9	...	The council are eager to replace the steam plant which is in quite a good condition with an electrical driven centrifugal pump. The main reason for this conversion is advanced on the prohibitive charges for fuel. A novel idea for operating the steam pumps by a geared motor with tex-rope drives or screw gearing has been proposed by the Mechanical Expert and alternative specifications were prepared calling for quotations for electrically driven centrifugal pumps suitable for the duty conditions as well as tex-rope drive.

*Comparative Statement of Pumping Particulars, for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
7 Chingleput ...	5.2	5.2	There is no improvement in the working of this station, the Municipality having been advised that the continuous working of the pumps to cope with the demand for water without employing a standby is to be condemned. The provision for a third unit or larger units for meeting the demand is advised, but no action has yet been taken in this connection.
8 Cocanada ...	6.7	7.0	The steam plant which is more or less idle is retained as a standby unit. The solitary unit for meeting the town supply is a Mirrless Watson centrifugal pump directly coupled through a flexible coupling to a slip ring induction motor operated on 400 volts 3 phase 50 cycle A.C. supply. Power is taken from the Municipal mains.
			The construction of an overhead service reservoir was taken up during the year and tenders for the erection of Mechanical filters were examined. Additional units for the new service are still to be proposed and specifications drawn up for inviting tenders.
!Conjeeveram.	7.1	8.9	The rate of energy at 1 anna per unit is considered a costly item in the operation of this plant.
			The steam units as already shown are not of an economical type for a water works pumping plant, the rate of maintenance and repairs is of a costly nature, and rather than incur prohibitive expenditure in making extensive alterations; the Municipality were advised to adopt electrification at a rate of 10 pies per unit, which has been considered and agreed to. Necessary specifications, plans for installing new units in the same building and other details in connection with the conversion proposed are shortly to be taken up.
10 Cuddalore; ...	7.2	7.2	There is no improvement in the operating costs, but a considerable saving has been obtained after rectification of the pump units in the cost of repairs and replacement, which were frequently being experienced from fracture of the vertical shafting of the pumps.
			The comparative costs for the duty conditions are normal.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
11 Cuddapah ...	...	...	The pumping plant at Bugga and other subsidiary stations were examined during the year. The scheme to abandon the units and all pumping at this source on introduction of the new Pennar scheme is well advised and accepted by the Municipality. The pumping plant is antiquated and their need for further retention in service on completion of the Pennar scheme is not felt.
12 Dindigul ...	...	...	Due to the peculiar conditions under which the plant is operated and the stoppage of all pumping at certain seasons of the year, it was represented to the Municipality that electrically operated pumps were more flexible and appropriate to meet the requirements at the works. During the year the work in connection with the new Pandyan work was almost completed. Specifications were prepared for suitable centrifugal pumps for the scheme design. Tenders were received and examined and referred to the Municipality for necessary action and disposal.
13 Ellore ...	11.1	10.6	Though a slight reduction in working costs is obtained there is still considerable room for improvement. Long delayed repairs and partisan feelings which prevail among the pumping station staff has resulted in considerable harm to the efficient running of the plant. It has been recommended that the plant be replaced by electrically driven centrifugal pumps which would result in a fair saving to the Municipality if a rate of 10 pies per unit was adopted.
14 Erode ...	6.4	...	During the course of the year one of the steam units was dismantled and removed for installing the electrical unit in its place. The work in connection with the construction of the low lift building and installation of low lift pumps was completed towards the end of the year. Due to unavoidable causes some delay was experienced in connecting up the syphon pipes and hence the units could not be brought into commission for service before the year closed. The new electrical pumping plant is being supplied by Messrs. Marshall Sons & Co.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
	(2)	(3)	
(1)	ANNAS.	ANNAS.	(4)
15 Gudiyattam.	1.5	1.6	The station continues to be operated in a satisfactory manner. The pumping station staff exhibit a keen interest in their work and the efficiency of the plant is maintained in a skilful and workmanlike manner.
16 Gudur ...	...	6.3	For the type of plant, the working costs are high, a reduction in expenditure can no doubt be obtained by a more careful management and control over the purchase costs of fuels and oils.
17 Guntur ...	...	4.5	The Yengalayapalaiyam Water Works is located 7 miles from Guntur Railway station and was recently brought into commission. The plant was supplied by Messrs. Binny & Co. Ltd., Madras and consists of two-stage Mather and Platt Lanovane split casing—Vertical spindle centrifugal pumps each capable of dealing with 300 gallons per minute of clear water at a manometric head of 48 feet, the pumps are driven by two 10/11 B.H.P. Crossley H.D. 3 type 4 stroke internal combustion heavy oil engines. The plant was tested by the Mechanical Expert for its duty conditions and handed over to the Municipality, the results of the test show the pumping plant to be an efficient and economical unit.
18 Karaikudi ...	...	6.77	Although the works are of a temporary nature, it has recently been utilized as a means of affording a protected water supply to the town of Karaikudi, until a more fruitful yield source can be investigated. The pumping plant was supplied by Messrs. Richardson and Cruddas and consists of two Worthington Simpson 2 stage centrifugal pumps each coupled through a flexible coupling to a 5 B.H.P. "Witton" squirrel cage motor of G.E.C. manufacture operated off a 400 volt, 3 phase, 50 cycle supply. The pumps are designed for dealing with 80 gallons of water per minute when working on a total head of 85 feet and 120 gallons per minute at a manometric head of 93 feet when operated in parallel. The plant was tested for its duty conditions by the Mechanical Expert and taken over by the Municipality.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and station.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
	(2)	(3)	
(1)	ANNAS.	ANNAS.	(4)
19 Kumbakonam Borehole No. 1.	17.3	18.3	The pumping plant still continues to be an expensive item to operate; the main cause of expenditure is due to an over estimated load at the time the engine was installed. There has been nothing of interest at this work which calls for any special comment.
20 Kumbakonam Borehole No. 2.	9.8	10.9	The yield from this source is still inadequate to cope with requirements and as a consequence intermittent pumping is resorted to, which accounts for the present unsatisfactory condition at the works. A recommendation to convert the units to booster sets by connecting up with the discharge main from No. 1 bore hole or by utilizing the present catch water well for storage and augmenting the source was proposed by the Mechanical Expert and is receiving scrutiny and investigation.
21 Kurnool ...	11.9	11.7	The prohibitory cost of energy at the exorbitant rate of 0-1-3 per unit is one which the council require to revise to a more equitable tariff. The operating cost are more than 50 per cent in excess of the normal charges which can be expected from an oil engine of equal power and considerably more than similar equipment driven by electric power where the yearly expenditure works out to about 6 annas or slightly over. During the course of the year specifications for an additional unit were prepared and tenders invited. Messrs. Richardson and Cruddas who secured the contract are to instal the plant during the ensuing year.
22 Madura Water Works (Main Pumping Station Kochadai.)	...	3.2	The steam plant which was purchased some years back from the Bombay Municipality although of an economical type is to be replaced consequent on the boiler plant having been condemned. Specifications for electrical equipment were prepared and tenders invited. Due to conflicting opinions as to the acceptance of the tender recommended by this Department the matter was referred to Government who agreed with the recommendations of the Sanitary Engineer that the tender of Messrs. Richardson and Cruddas was best suited for the duty conditions proposed. The delay in communicating the decision to the firm concerned has resulted in the work of removing the steam plant and replacing it being postponed to the ensuing year.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
23 Madura Water Works Arapalai- yam.	...	11.1	The plant is not as efficient as can be desired; the chief cause is due to excessive back pressure which contributes in a large measure to this loss. Extensive overhauls to the pumping units were undertaken some little while back and it was considered unnecessary to expend any further money in repairs in view of the comprehensive scheme proposed for the Madura Municipality and the recommendation to convert the steam plant to an electrical drive.
24 Madura Drainage Works- Santhapet.	...	3.6	The pumping units at this station is of the triple expansion surface condensing corliss valve type. The Boiler Plant consists of 3 Babcock and Wilcox Water tube boilers with super-heaters and economiser. One of the boilers was removed to the Kochadai Works to make room for the condemned boiler until such time as the Kochadai plant is electrified. The plant is operated in an efficient and economical manner.
25 } Sub 26 } Drainage 27 } Stations 28 } Nos. II to 29 } VI.	...	...	The condition of the pumping plant at the various sub-drainage stations is a one of utter disrepair; many of the units are being driven under trying conditions which cannot but be prohibitive. The recommendations to renew the pumping plant at all the stations were eventually approved and specifications prepared for suitable sewage pumps of the drowned section type to be installed. Tenders were invited for the work and are pending disposal.
30 Masulipa- tam.	...	...	The proposal to replace the existing pumping plant with an electrical drive was approved and tenders were invited in accordance with specifications prepared by this office. Electrical energy is to be taken from the municipal mains at the rate of 8 pies per unit.
31 Negapatam.	...	4.1	The pumping plant at this station is maintained in an efficient and thoroughly workmanlike and skilful manner; the working costs are favourable and the prospects of still further reduction with replacement of the pumping main which has corroded in various parts is expected.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
32 Nellore ...	6.4	6.1	The pumping plant is one which was purchased through the Indian Stores Department and was supplied by Messrs. Richardson and Cruddas. The equipment consists of Worthington Simpson vertical spindle, split casing centrifugal pumps with slip ring induction motors manufactured by the B.T.H. Co., Ltd. The plant was taken over by the Municipality in the year 1935 before the appointment of the Mechanical Expert and on the tests of the Chief Inspector of Boilers. The equipment is well erected and the plant is of an efficient type; although the rate of energy at 1 anna per unit is considered high. The Municipality has been advised to get into touch with the public electric supply corporation in effecting a reduction in the rate.
33 Palacole ...	7.2	4.2	The pumping plant at this station was the cause of much trouble. One of the Black stone engines installed at inception of the works reached an untimely and due to improper alignments and erection. The defective engine was replaced by a Crossley engine during the year and recommendations to substitute the remaining Blackstone engine by another Crossley engine was accepted by the council, and the work of installing the second engine was taken up towards the end of the year. A considerable saving in the operating costs has been effected which is considered highly satisfactory. Recommendations for overhauling the mechanical filters and installing a meter to replace the present defective one is receiving consideration and attention.
34 Proddatur ...	26.7	32.2	The condition of the plant is not at all satisfactory; the working costs are far too high to render the units being an efficient plant for a Town water works scheme. Matters are rendered worse by an inefficient staff. The Municipality have been advised to replace the boilers with an oil engine drive or to utilize a husk burner for burning groundnut husk, large quantities of which is available from the local factories and instead of expending large sums in purchasing fuels of a prohibitory cost.

Comparative Statement of Pumping Particulars for the year
1936-37--cont.

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
35 Rajah- mundry. ...	8.02	6.5	The pumping plant was purchased through the Indian Stores Department and consists of two sets of centrifugal pumps for dealing with the raw water requirement and two sets of clear water pumps for service with the town reservoir. Each pump is directly coupled through flexible coupling with a slip ring induction motor wound for a 400 volt, 3 phase, 50 cycle A.C. supply. The entire plant is the manufacture of Messrs. The Harland Engineering Works. The equipment is one of an economical type, but the tariff at 1 anna per unit is considered high for the purpose of a water works pumping plant, and the Municipality are advised to move the public electric supply corporation for a reduction in the rate.
36 Rames- waram. ...	...	7.0	The pumps are of the Worthington Simpson, Vertical triplex power type equipped with single reduction gears. The pumps units are driven by means of a belt from 12 B.H.P. 4 stroke Ruston Hornsby Kerosene Oil Engines, now converted for operation with crude oil, which has resulted in a considerable saving being effected in the cost of fuels. The pumps and engines are maintained in satisfactory order.
37 Saidapet ...	...	8.2	The works were recently completed and brought into commission. the pumping plant was purchased by the P.W.D. and was supplied by Messrs. Binny & Co., Ltd., Madras. The equipment consists of two horizontal single stage split casing pumps of the Medivane series manufactured by Messrs. Mather & Platts and are designed for delivering 390 gallons of water per minute for a total lift of 92 feet. Each pump unit is directly coupled through flexible couplings to a slip ring induction Mather and Platt motors wound for a 440 volt, 3 phase, 50 cycle supply. Power is taken from the Madras Electric Supply Corporation at a rate of 14 annas per unit or Rs. 4 per K.V.A. plus 9 pies per unit. It is considered that the rate is far too high to render the pumping plant an economical unit for a water works supply.

Comparative Statement of Pumping Particulars for the year
1936-37--cont.

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
38 Tadpatri ...	3.9	4.7	The station continues to be operated in a satisfactory manner, and the working costs are normal.
39 Trichino- poly. ...	4.6	4.2	The station is well maintained and satisfactorily managed, the pumping units are efficient and the rate of energy at 9 pies per unit is considered satisfactory.
40 Tanjore ...	8.4	10.13	The pumping plant is rather ancient. The older of the four units had already received extensive overhaul on two different occasions and further repairs to improve their efficiency were considered inadvisable. The largest and best of the units, however, was dismantled and extensive repairs of all its parts were undertaken and satisfactorily completed by the Indian Commerce and Industries Co., Ltd., Madras, under the direct supervision of the Mechanical Expert. The results of efficiency tests subsequently conducted showed a vast improvement in operating the plant. A contributory cause to increased expenditure is attributed to the clogging up of the filters, which are recommended for overhaul as also improvement of the yield source. Specifications for replacing two of the worn out units with vertical spindle electrically driven pumps were prepared and are still receiving attention by the council.
41 Tiruvanna- malai. ...	5.4	3.6	Further adjustments were made during the year for improving the efficiency of the plant which has resulted in a saving of over 30 per cent in the operating costs which is highly satisfactory. The pumping station staff and the Municipality are prompt in attending to the advice rendered by this Department.
42 Tuticorin ...	2.3	1.2	The pumping plant at the Valvanad works is one of the most efficient of its type installed in Southern India. The plant consists of two Worthington Simpson triplex power pumps, equipped with reduction gearing and directly operated through a friction clutch, with a 80 B.H.P. horizontal diesel engine manufactured by Messrs. Clayton and Babcock. The Superintendent of the works takes a very keen interest in maintaining the efficiency of the plant at its maximum. Proposals to replace the plant consequent on its being found inadequate for coping with the increased demands to the town were considered and specifications to replace the units with electrically driven pumps were prepared and sent to the Municipality for action.

*Comparative Statement of Pumping Particulars for the year
1936-37—cont.*

Serial number and stations.	1936.	1937.	Remarks.
	Cost of fuel and oil per million foot gallons.	Cost of fuel and oil per million foot gallons.	
(1)	(2)	(3)	(4)
	ANNAS.	ANNAS.	
43 Vellore Drainage.	3.0	6.0	The plant needs extensive repairs and overhaul, the pumps are unsuitable for sewage purposes and the Municipality have been advised to consider replacement of the entire plant with one of a more suitable type.
44 Vellore Water Works.	1.9	1.8	The condition of the plant is satisfactory and the expenditure on maintenance is normal.
45 Vizagapatam Headworks (Mudosor- lova).	4.4	4.6	There is nothing of interest which calls for any remarks as regards the pumping equipment installed at this station. The council were advised to give more attention to a choice of lubricating oils better suited for the plant.
46 Vizagapatam Water Works (Waltair).	...	...	Specifications for replacing the plant with electrical driven sets were prepared and sent to the Municipality for inviting tenders. The council were advised to accept the plant tendered for by Messrs. Siemens (India), Ltd., and orders for the supply were accordingly placed.
47 Vizia- nagram .	3.03	3.2	Necessary attention is being given by the pumping station staff to maintain the plant at its maximum efficiency. A rise in the purchase cost of coal is responsible for a slight increase in the operating costs. The Municipality have not furnished figures for the annual expenditure and it is regretted that any delay should be experienced in this connection.

General Remarks.—The year is marked by a number of new schemes, to be executed during the year, receiving attention. Details as to layout, equipment to be installed and type of plant necessary for efficient operation were scrutinized and specifications prepared.

The following municipalities were provided with detail specifications, etc., to enable tenders being invited for the undernoted new works :—

1. Tiruppur Municipal Water Works.
2. Rajahmundry Sewage Pumping Works.
3. Negapatam Drainage Works.
4. Additional plant for Kurnool Water Works.
5. Srirangam Drainage Works.
6. Srirangam Water Works.
7. Karur Water Works.
8. Manapparai Water Works.
9. Dindigul Water Works.

In a specific instance, this procedure contributed to delay in communicating the decision of the Municipality to the successful tenderer which resulted in the normal value of the tender being increased consequent on the unstable position of the market with regard to the supply of machinery.

Much could be done by the appointment of a junior Mechanical Expert, whose services at this stage are highly desirable, in the course of so many conversion schemes being executed and also the erection of new plant, all of which require close observation; the services of an Assistant should go a long way to relieve the Mechanical Expert from a good deal of the work in scrutinizing monthly returns and other routine duties of a technical nature which would permit him to give more attention to other important works, which require closer technical supervision.

It is hoped, Government will consider this modest request in the light in which it is represented and which is so essential in the interests of efficient service.

During the course of the year advice was rendered to the District Board Engineer in connection with the pumping plant for the Dharmavaram Union Board. The Municipal Health Officer of the Vizagapatam Municipality also availed himself of the services of the Mechanical Expert in connection with the sewage plant under his control.

Tenders for the undernoted plant were received and scrutinized and awarded to the following firms at a cost mentioned against the respective items:—

Tiruppur Water Works—Messrs. Richardson and Cruddas, Total cost of tender Rs. 3,937.

Rajahmundry Drainage Works—Messrs. Richardson and Cruddas, Total cost of tender Rs. 7,104.

The Negapatam Drainage Works—Messrs. Massey Ganz Hackethal at a total cost of Rs. 11,444.

Additional plant for Kurnool Water Works—Messrs. Richardson and Cruddas, Total cost of tender Rs. 3,258.

Dindigul Water Works—The council were advised to accept the tender of Messrs. Crompton Engineering Works.

In addition to the above, a number of conversion schemes mentioned below were scrutinized and necessary details examined and specifications prepared:—

Erode Water Works conversion from steam to electric drive. Tender awarded to Messrs. Marshall Sons & Co., Ltd.; at a total cost of Rs. 24,540.

Kochadai Water Works conversion of steam plant to electric drive. Tender awarded to Messrs. Richardson and Cruddas at a total cost of Rs. 57,981.

Waltair Water Works, conversion from oil engine drive to electric drive. Tender awarded to Messrs. Siemens (India), Ltd., at a total cost of Rs. 6,845.

Madura sub-drainage stations, conversion from oil engine drive to electric drive. Tenders still receiving consideration by the Municipality.

Masulipatam Water Works, conversion of steam plant to electric drive. Tender awarded to Messrs. Marshall Sons & Co., at a cost of Rs. 10,141.

Chidambaram Water Works, conversion of steam plant to electric drive specifications prepared, but tenders not yet received.

Tanjore Water Works for replacing two of the steam units. Specifications, layout drainage, etc., prepared and sent to the municipality, for action.

Tuticorin, Valavanad Water Works, Specifications, layout drawings, etc., prepared to enable tenders being called.

The volume of work has steadily increased and much is left to be done in preparing satisfactory record charts which enable a close check being kept over timely repairs and overhauls, which are undertaken so as to maintain a maximum standard of efficiency in the various Municipal pumping stations.

During the course of the year, Government directed the scrutiny of tenders to be done by the Chief Inspector of Steam Boilers or General Superintendent of the Public Works Department Workshops. Though this is welcome, it does not relieve the Mechanical Expert from his responsibilities in advising the Sanitary Engineer as to the acceptability of the recommendations made by the respective officers nor does it in any way reduce the quantity of work required in this respect. On the other hand the procedure has resulted in conflicting opinions being communicated to the Municipalities enforcing a reference to Government.

Government of Madras

EDUCATION AND PUBLIC HEALTH DEPARTMENT

(Public Health)

G.O. No. 3491, 1st October 1938

Public Health Annual Report—1937—Reviewed.

READ—the following papers:—

I

Letter from Lieut.-Col. H. E. SHORTT, I.M.S., Director of Public Health, to the Secretary to Government, Education and Public Health Department, dated 2nd July 1938, R.C. No. 19416-6/VS/38.

I have the honour to forward herewith six copies of my report for the year 1931 including the administration of vaccination in 1937-38.

II

Letter from M.H. R. DOGRA, Esq., B.Sc., Chief Engineer, Public Works Department (General, Buildings and Roads), to the Secretary to Government, Education and Public Health Department, dated 19th August 1938, No. 2472-Ad./38-8.

[Administration report of the Sanitary Engineering Department for the calendar year 1937. *Reference.*—Sanitary Engineer's letter No. 6336 H.C. 2/38, dated 8th August 1938, and Education and Public Health Department Memorandum No. 35374-1-E-2, P.H., dated 16th August 1938.]

I forward herewith the administration report for 1937 received from the Sanitary Engineer on 14th July 1938, with my remarks showing the stage of the water-supply and drainage schemes in progress, executed by the Public Works Department.

ENCLOSURE

CHIEF ENGINEER'S REMARKS.

Water-supply scheme.

1. *Virudunagar Water-supply Scheme*.—Estimate, Rs. 7,26,000. **Workslip, Rs. 6,75,000.**

Expenditure during the year, Rs. 1,00,913, and to end of the year, **Rupees 5,80,946.**

The reinforced concrete elevated service reservoir is nearing completion. Only the roof slab remains to be put up on the side walls. Distribution system is completed both in the central and extension areas. Only a few fountains are to be completed. Electric pumps have been installed and are working with the energy supplied by the Hydro-Electric Department. The town is enjoying practically the full benefits of protected water-supply in advance.

2. *Saidapet Water-supply Scheme (Main Scheme)*.—Estimate, Rs. 2,90,700. **Workslip, Rs. 3,05,000.** Contribution and Government share for the year, Rs. 16,000. Expenditure during the year, Rs. 16,606, and to end of the year, Rs. 2,98,848.

The whole scheme is practically completed and handed over to the municipality. Minor items such as roads, fencing and levelling the site were in progress.

3. *Saidapet Water-supply Scheme (Extension to Mambalam, Mettupalaiyam, Little Mount, Guindy, etc.)*.—Estimate, Rs. 60,570. Contribution for the year was Rs. 10,243 including the unspent balance of previous year Rs. 4,743. Expenditure during the year, Rs. 6,858, and to end of the year, Rs. 47,115. The work is nearing completion. The laying of pipe lines to Mambalam was in progress.

4. *Improvements to Nellore Water-works*.—Estimate, Rs. 96,000. Expenditure during the year, Rs. 594, and to end of the year, Rs. 53,518. Due to the delay of the contractors, infiltration gallery work, and laying of pipe connexion had to be started only in January 1938, and were in fair progress.

5. *Arkonam Water-supply Scheme*.—Estimate, Rs. 1,92,400. Expenditure during the year, Rs. 38,536, and to end of the year, Rs. 1,34,933. The reinforced concrete service reservoir was completed except for rectifying certain defects. Other works were in progress.

6. *Extension of pipe lines to police lines, Anantapur*.—Estimate, Rs. 5,780. Expenditure during the year, Rs. 2,178, and to end of the year, Rs. 4,874. The work was in progress.

7. *Tiruvallur Water-supply Scheme*.—Estimate, Rs. 1,32,400. Contribution for the year, Rs. 2,450.

Expenditure during the year, Rs. 310, and to end of the year, Rs. 3,553. Suction well and yield tests were completed, contract was settled, and steps were taken to obtain pipes and specials for the pumping mains.

portion of Islampet main drain were taken up early in March 1938 and were in progress.

2. *Brucepet Drainage Scheme*.—Estimate, Rs. 4,39,900. Expenditure during the year, Rs. 65,007, and to end of the year, Rs. 1,41,390. The work was in good progress.

Order—No. 3491, P.H., dated 1st October 1938.

Recorded.

2. The total mortality rate in the year under review was 23.99 per mille as compared with 23.30 in 1936. Both the urban and rural mortality rates showed a definite increase, the former increasing from 26.79 to 27.21 and the latter from 22.72 to 23.46. Infantile deaths alone accounted for 27 per cent of the mortality figures.

3. Cholera continues to be one of the chief scourges of the Presidency. After a comparative lull in the years 1932 and 1933 there was a steady rise in cholera mortality reaching the peak figure of 34,456 in the year 1935. Since then there has been a steady decline, the figure for the year under review being 23,307, which is 30 per cent lower than that in 1936. The Government observe that such fluctuations are a feature of this disease and that no useful conclusions can be drawn from the figures for any two consecutive years.

4. The unwelcome recrudescence of plague in the Nilgiris after a lapse of nearly fifteen years received far more publicity than was demanded from its seriousness. The Government are pleased to observe that the situation was handled with energy and determination. As compared with 1936 plague mortality rose from 615 to 1,127. This figure is less than half the plague mortality in 1933-34. Cyanogas fumigation, anti-plague inoculations, rat-destructions and evacuation of infected areas continued to be the chief measures employed in combating this disease. Fumigation of whole buildings is in an experimental stage. Research work in rat harbourages has revealed that cracks in mud walls are no whit inferior to burrow-holes as rat harbourages. The results of the experiments on the cheap methods of rat proofing of houses in rural areas are awaited with interest.

5. One of the outstanding features of the year was that the mortality from smallpox decreased by 47 per cent compared with 1936. The mortality is the lowest recorded for seventy years. Considering that fluctuations are a feature of this as well as other epidemics the mortality for 1938 will show whether the improvement is one of a lasting nature or due to the vagaries of this epidemic. The progress so far made in rural areas for providing infectious diseases sheds for treatment of smallpox has not been very satisfactory. Government trust that local authorities will show greater interest in the matter in future.

6. "Fevers" still account for a comparatively large number of deaths—27 per cent of the total mortality in the Province. "All other causes" account for 51 per cent of the total mortality. There is scope for improvement in the classification of mortality figures both under

"Fevers" and "All other causes," but considering the agency employed in the registration of vital statistics in rural areas it is not practicable to provide for more detailed classification at the present moment.

7. In other spheres of activity such as Rural Sanitation Campaign and Health Propaganda, Malaria Control, Sanitary arrangements at Fairs and Festivals, and Vaccination (1937-38), Maternity and Child Welfare activities, it was a year of steady progress. The success attending the efforts to control malaria in Krishnadevipeta is commendable. The Poonamallee Health Unit continued its useful activities.

8. The year witnessed the introduction of the Saidapet water-supply scheme thus bringing the total number of towns (rural and urban) which have a system of protected water-supply to 42. Thirty water-supply schemes and seven drainage schemes were under execution, besides several schemes to improve, augment or extend the existing sources of water-supply to towns. Schemes under execution by local agency or by engineering firms on contract under the supervision of the Sanitary Engineer have shown compositively little or no progress.

9. The year 1937 witnessed the adoption of an important change of principle in the matter of rural water-supply. Hitherto the initiative for providing rural areas with a wholesome supply of water was left to the local authorities aided by half-grants from Government. The rate of progress was therefore dependent upon the amount of money that was forthcoming from the local funds. In the year 1937, however, Government abandoned the system of half-grants. Instead they have embarked on a ten-year programme of rural water-supply schemes financed entirely from Provincial funds. The Government have also prescribed the nature and types of wells to be constructed so that the water will be free from contamination and will thus it is hoped materially assist towards the fight against water-borne diseases. Towards the end of the official year 1937-38, Government have also constituted a rural water-supply fund with an initial contribution from the revenues, of Rs. 15 lakhs to finance the programme.

10. The Government note with satisfaction that the progress achieved in the past years in the administration of Public Health in the Province has been maintained and in some cases improved upon. While figures for any particular year are not the criterion to judge of the progress achieved, taking the trend of events in the past decade as a whole the measure of success that has attended the efforts of the officers of the Public Health Department has been commendable.

(By order of His Excellency the Governor)

C. H. MASTERMAN,
Secretary to Government.

To the Surgeon-General.
" the Director of Public Health.
" the Chief Engineer (Buildings and Roads).
" the Sanitary Engineer.

To the Inspector-General of Prisons.
" the Inspector-General of Police.
" the Director of Public Instruction.
" the Director of Civil Veterinary Department.
" the Examiner of Local Fund Accounts.
" the Inspector of Municipal Councils and Local Boards.
" the Mayor, Corporation of Madras.
" all Collectors.
" all Presidents of District Boards.
" all Executive Authorities (through the Chairmen of Municipal Councils concerned).
" the Director, King Institute, Guindy.
" the Director, Pasteur Institute, Coonoor.
" the Secretary, Local Self-Government Department, Bihar Government (with C.L.).
" the Director, All-India Institute of Hygiene and Public Health, Calcutta (with C.L.).
" the Public Health Commissioner with the Government of India (with C.L.).
" the Government of India, Department of Education, Health and Lands (with C.L.).
" the Joint Secretary, Countess of Dufferin's Fund Central Committee, Simla.
" the Director, Maternity and Child Welfare Bureau, Indian Red Cross Society, New Delhi.
" the Director, Eastern Bureau Health Organization League of Nations, Singapore (with C.L.).
" the Officer in charge of the Board of Administration.
" the Public Works Department.
" the Revenue Department.
" the Secretary, Madras Legislatures.
" the Librarian, Secretariat Library, Chepauk.
" the Consul-General for Siam at Calcutta.
Press.

