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Annual Report

of the

Mealth Department (Corporation of Madras)

For the Year 1931

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C. S. Govinda Pillai nd. 18. Ch. 16., L. R. C. P. & S., D. P. 1b. (Edin.)

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MADRAS: PRINTED BY THOMPSON AND CO., LTD.

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INTRODUCTION.

Commissioner.

Sir,

I have the honour to submit the Annual Report on the Health of the City for the year 1931.

Population:—The decennial census was due during the year under review and the enumeration was actually made on the night of February 26th. The population of the Municipal area was 6,47,230 as against 5,26,911 in 1921 with an excess of 35,216 males. This records an intercensal increase of 1,20,319 or 22.8 per cent. A scrutiny of the Vital Statistics of the previous 10 years shows that this phenomenal increase in the population has been the result of migration of a large number of persons into the City seeking employment. The enlightened policy of the Corporation in providing amenities in the divisions at the outskirts of the City and in launching the Mambalam extension scheme has facilitated the transference of such a vast population into the City. Marked increase is noticed in the case of Perambur, Royapettah, Tondiarpet, Korukkupet, Meersaibpet and Tiruvateeswaranpet divisions which are inhabited by the labouring classes. There has been very little transference from the congested George Town and Triplicane areas to the suburban Districts with the exception of Muthialpet.

Births:—The total number of births (25,738) shows an increase of 76 as compared to the births in 1930. The birth-rate was 39.8.

Deaths:—The total number of deaths (23,162) shows an increase of 323 as compared to the deaths in 1930. Death-rate for the year was 35.8. As mentioned in my last report, rates prepared on the recent census population alone represent the correct state of Public Health. In the absence of a quinquennial enumeration intercensal rates are subject to the fallacies associated with the estimated population in any given year. It is very pleasing to note that the death-rate, high as it is, is less by 2.7 when compared to the death-rate of 38.5 in 1921. Conditions affecting Public Health in the City have decidedly improved over 1921. Moreover, the total number of deaths registered during the year includes 860 deaths of persons dying in the City but not belonging thereto. The Government Hospitals are attracting thousands of patients from the Mofussil whose deaths under the existing arrangements have to be registered in the divisions where the Hospitals are located. As the number of Madrassees who died outside the City and whose deaths have been registered elsewhere is not known, no attempt has been made to correct the death-rate on this score.

Divisional Death-Rates:—Four definite areas record death-rates above the annual death-rate of 35.8 for the whole City. These are (1) Royapuram, Tondiarpet, Washermanpet, Korukkupet and Harbour divisions, (2) Choolai and Purasawalkam, (3) Chintadripet, Amir Mahal, Tiruvateeswaranpet and Mirsaibpet, (4) Seven Wells. It is precisely in these areas that the bulk of the poor labouring classes inhabit. Housing conditions being extremely unsatisfactory and inadequate, congestion is very acute. Some of these divisions, notably Royapuram, Tondiarpet and Choolai, have received some attention in the past. These efforts have to be doubled and similar relief extended to other divisions mentioned above. The high death-rate noticeable in these divisions closely associated with the prevailing bad housing conditions can only decrease proportionately to the improvements effected in this behalf.

Infantile Mortality:—The infantile mortality-rate was 248.3. This gives an increase of 4.4 as compared to 1930. A dramatic decline in infantile mortality as in the West cannot be expected so long as the fundamental causes remain unaltered. A great deal more, however, can be achieved if the citizens make a greater use of the existing organisations. Ante-Natal clinics, mother-craft classes and indeed all other branches of the varied and extensive work

grouped under Maternity and Child Welfare have to be brought within easy reach of every one who cannot afford to pay for these services. It is of utmost importance for the promotion of general health to give the greatest care and attention to the children from their birth.

Infectious Diseases:—The City has been comparatively free from epidemics during the year. There is a reduction in mortality from the principal infectious diseases except Enteric and Cholera; the latter accounted for 153 deaths. The infection started in December 1930 after the heavy rains continued during the first quarter. Under efficient measures the infection was very soon eradicated. Mortality from Diarrhæa and Dysentery is definitely on the decline. The incidence of small-pox has been very low. Only 24 persons died of the disease. Vaccination was conducted with great vigour throughout the year. The number of primary vaccinations performed was the highest on record. Progress can again be reported with regard to the mortality from Malaria, The reduction noticed last year has been maintained.

Tuberculosis:—There is a slight decline in the mortality from Tuberculosis which is still high. Like the general death-rate the problem of Tuberculosis is intimately associated with the question of housing and nutrition. In addition to the efforts now made to improve the housing conditions in the City, relief has to be given to many persons who are suffering from advanced Tuberculosis and who are without suitable accommodation and treatment. With the insufficient accommodation at the hospitals it is not possible to cope with all the cases that require isolation and treatment. Patients suffering from Tuberculosis do not like to remain at our infectious diseases hospitals, even though there is no risk of cross infection. The question of converting Krishnampet Isolation Hospital to serve this much felt need or in the alternative of opening another Hospital will have to be considered in the immediate future.

School Medical Service :- Much useful work has been done by the Medical Inspectors as noted elsewhere in the report. The charge that the Medical Inspection of Schools is altogether a waste, since the doctor who inspects the children only records defects, is not true. 7,035 defectives under-went treatment as a result of Medical inspection. 122 operations were performed on pupils on the advice of the school doctors. Improvements were effected in a large number of cases under malnutrition, enlarged tonsil, defective vision, ear-diseases and leprosy. The considerable amount of health defect noticed at the first medical inspection is likely to continue until more attention is paid to the pre-school child by the community in general. In order to reap the full benefits of school medical service the co-operation of the parents is most essential. The fact that only 4,517 parents were present during the medical inspection shows that the parents are not doing their share. School medical service is of the greatest value to the community as it affords an opportunity to fit the child for its education. There is a fear that the service may be scrapped in view of the stoppage of Government grant. I trust the Corporation will find funds to maintain the school medical service that has done good work in the past. The Corporation dispensaries are located most conveniently to suit the requirements of our Elementary Schools. Abolition of school medical service will result in the with-holding of medical and surgical relief to a very large number of children whose parents are too poor to pay for this relief.

Food Inspection: -Work in connection with Food Inspection was in operation throughout the year. There was a decline in the percentage of adulterated samples as compared to 1930. Adulteration is still high with regard to ghee, coffee and milk. It is expected that with the enforcement of rules regarding labels now pending with the Government greater improvements will be effected.

Sanitary Improvements:—The most outstanding feature under this head was the conversion of 1829 dry latrines in dwelling houses into flush-out latrines. In addition, 11 public flush-out latrines were constructed during the year. 3,392 dwelling houses were improved. It is gratifying to note that the difficulties regarding Madras Water Supply are about to be solved. Corporation

has approved the recommendation of the Water Filtration Committees. It is hoped that the aerating filters will soon be introduced and the scheme pushed forward so as to ensure a supply free from sulphurated hydrogen and the unsightly growth.

Health Education of the Masses:—Considerable volume of work was done by the staff to spread the knowledge of Hygiene amongst citizens and kindle interest for a better living. The work organised by me a few years ago was expanded during the year. The staff adhered to an advance programme of lantern lectures, cinema shows and other lectures. The work was done with enthusiasm and success.

Conservancy:—The work of this department has been one of great activity throughout the year. All the dumping grounds received special attention. The tipping platforms installed during recent years have been functioning satisfactorily. A larger number of Conservancy lorries were on road during the year than previously. The decline noted under diarrhoea and dysentery could only have been possible with improved conservancy.

Slums and Slum Improvement:—As mentioned in previous reports, housing conditions of the poor continue to be extremely unsatisfactory. Congestion and overcrowding have increased to such an extent that all the available space near busy centres have become cramped with houses built back to back. Narrow lanes have taken the place of streets and roads. Most of the houses are without any means of ventilation and lighting. A fourth of the population of Madras live in such one roomed dwelling houses, while a good many are even without these shelters.

A comparative study of the conditions existing in cheries shows;—
(1) the housing conditions are extremely unsatisfactory in the vast majority of cases, (2) metal roads and surface drainage are absent except in very few cases, (3) though located in sewered areas, many cheries are without sewers, sullage being allowed to stagnate in cess-pools, (4) latrine accommodation is either primitive or inadequate, and (5) water supply is inadequate. The same remarks apply to lighting.

During the year under report the subject continued to engage the attention of the authorities and the various social services organisations in the City. There has been a steady growth of public opinion urging the necessity for ameliorating the conditions of slum dwellers. There are three ways of getting over the present impasse; -1. Compel the landlord to develop the area. 2. Acquisition of all private slums by the Corporation and provision of sanitary dwelling houses and other amenities. 3. Co-ordination of the activities of the various agencies responsible for the health of the workers. The first method has been a failure as the landlords could not carry out improvement schemes which involved enormous expenditure. In the absence of adequate funds municipalisation of slums can only remain an ideal. On the other hand the third method, if pursued in right earnest with the co-operation of the landlords, is bound to give good results in a reasonable period. In the case of cheries in sewered areas with houses facing the streets, the Corporation should not grudge to introduce sewers, roads, taps, flush-out latrines, bath rooms, and lights. The plea that Corporation will be spending money for improving private properties can be applied with equal force to all sewered areas in the City. Once the sewers are introduced, more taps and latrines can be put up without nuisance.

Despite the severe financial stringency and the difficulties involved, slum improvement has been kept in the forefront. Mackeys Garden, Angalammen Coil Hutting grounds, Tondiarpet Chery and Kuruseddy Chery have been improved during the year. Bogypalayam Scheme and Cochrane Basin plinth scheme have been in progress. Further, schemes are under consideration to provide housing accommodation to the homeless harbour coolies and to improve the sanitary condition of Roshan Chery, Sundara Mudali Chery, Oddarpaliam, Scavengers' Hutting grounds in old Slaughter House Road and Subramania Mudali Garden.

With the increase in population and the development of new areas the work of the Health Department has enormously increased in all directions. In the interest of efficient administration, the staff of Assistant health Officers, which is now quite inadequate, has to be increased so that every branch of the Health Administration may receive closer attention and supervision. It is hoped, the Corporation will consider the desirability of appointing a third Assistant Health Officer, as soon as its financial conditions improve.

In conclusion, I wish to thank my assistants and all the members of the staff for their whole-hearted co-operation and zeal in the discharge of their duties.

> I have the honour to be Sir.

Your most obedient Servant,

Madras, Dated 19-8-32. C. S. GOVINDA PILLAI,
M. B. Ch. B., L. R. C. P. & S., D. P. H. (Edin.)

Health Officer.

Forwarded to the Council.

D. D. WARREN,

Commissioner,

SUMMARY OF VITAL STATISTICS FOR 1931.

Area			THE PROPERTY OF THE	19,	728	acres	
Popul	ation	(Census	1931)	6,47,5	230		
Avera	ge De	nsity per	r acre	3	2.8		
Inhab	ited h	ouses (C	ensus 1931)	73,8	45		
Births		25,738	Birth-rate	39-8	per	1000	population.
Deaths (all causes)		23,162	Death-rate	35.8		,,	,,
Natural Increase		2,576	Rate of increas	se 4.0		,,	,,
Deaths of infants one year of ag	unde e.	r} 6,391	Infantile morta- lity-rate.	}248.3	per	1000	births.
Deaths due to child	birth.	299	Maternal death-rate	11.6	per	1000	births.

Deaths from Principal Diseases.

Cholera		153	Death-rate	0·2 per 1000	population.
Small-Pox	•••	24	,,	0.04	"
Measles		3	n	0.006	,,
Malaria		277	"	0.4	n
Enteric Fever		166	"	0.3	u
Phthisis		843	"	1.3	"
Dysentery & Diarrhoea		2,746	, ,	4.2	"
Respiratory Diseases		5,743	,	8-9	,,

Vital Statistics.—The outstanding features of the state of Public Health during 1931, as drawn from the statistical returns of Births and Deaths and compared with the previous year 1930 are:—

- i. decrease in the birth-rate from 48.5 in 1930 to 39.8 in 1931.
- ii. decrease in the death-rate from 43.2 in 1930 to 35.8 in 1931.
- iii. increase in the infantile mortality-rate from 243.9 in 1930 to 248.3 in 1931.
- iv. increase in the mortalities under :-
 - (a) Cholera ... (+110) (b) Enteric Fever ... (+40)
 - (c) Respiratory Diseases ... (+487) and,
- v. decrease in the mortalities under :-
 - (a) Small-Pox ... (-164) (b) Malaria ... (-6)
 - (c) Diarrhoea & Dysentery ... (-310) (d) Pulmonary Tuberculosis ... (-81)
 - (e) Other Fevers ... (-81)
- These are dealt with in detail in the report.

Meteorology.—A statement showing the atmospheric conditions recorded during 1931 is given in the Annual Form A (page 54). The maximum temperature varied from 100.3? F in June to 82.0°F in December. The minimum temperature varied from 68.9? F in February to 82.4°F in June. The lowest degree of humidity was recorded in June (62 degrees) and the highest in November and December, both of which recorded 82 degrees.

Rainfall.—The total rainfall recorded during the year 1931 was 58-53 inches as compared with 78-69 inches in 1930. There was rainfall in all the months of the year excepting February and March. The highest rainfall was recorded in October (12-09 inches) and the last quarter ending December returned 33-78 inches which is the highest rainfall of all the other quarters. During the whole year there was rainfall on 114 days (Vide Table B on page 81).

Population.—The year 1931 was marked by the decennial census. The enumeration was conducted in the month of February. According to this census, the population of Madras was 6,47,230 as against 5,26,911 in 1921. A comparative statement of the population of Madras enumerated decennially since 1871 is as follows:—

Census.	Population.
1871	3,97,552
1881	4,05,848
1891	4,52,518
1901	5,09,346
1911	5,18,660
1921	5,26,911
1931	6,47,230

A statement showing the absolute and the percentage decennial increase is given below:—

Decennium.	solute decennial Fease of population in	Percentage decennial crease of population.
1871-1881	 8,296	2.1
1881-1891	 46,670	11.5
1891-1901	 56,828	12.6
1901-1911	 9,314	1.8
1911-1921	 8,251	1.6
1921-1931	 1,20,319	22.8

A survey of the above statement reveals that there has been a phenomenal increase in the population during the decennium 1921-31. In ordinary circumstances, this increase will be ascribed to the natural growth or increase of population *i.e.*, excess of births over deaths and to the balance between immigration and emigration. But a careful scrutiny of the vital statistical records will show that natural increase had

little or nothing to do with the growth of population in Madras. The statement given below shows that, excepting for the intercensal period 1921-31 which recorded a natural increase of 1687, all the other decennial periods reported excess of deaths over births. The growth of population should therefore be attributed to the migration of people into the city from the rural areas. Factories and mills, and schools and colleges have drawn many from all parts of the presidency and even from the other provinces of India.

Intercensal Period.	Births.	Deaths.	Increase or Decrease.
1871-1881	 1,18,548	1,80,589	-62,041
1881-1891	 1,60,830	1,61,196	- 366
1891-1901	 1,84,112	1,88,521	- 4,409
1901-1911	 1,96,864	2,24,334	-27,470
1911-1921	 2,01,076	2,23,096	-22,020
1921-1931	 2,29,432	2,27,745	+ 1,687

A perusal of the above statement will suggest that lack of suitable and sufficient sanitary conditions has been responsible for the heavy number of deaths in the city. Overcrowding, congestion, bad housing and density of population increased as immigrants poured into the city and swelled the population. Dirt, disease and death easily came into existence under such conditions.

The census enumeration having revealed the magnitude of the human contents of the city, a comprehensive scheme involving city extensions, housing schemes, improvement of slum areas and hutting grounds, and extensions of underground drainage to areas not already sewered has to be taken up seriously as a sanitary necessity for the city. Unless this is done, mortality cannot be reduced and ideal sanitary conditions expected. What has hitherto been done in the improvement of the city has only touched the fringe of the sanitary problem. Progress and improvement in the sanitation of the city should run paripassu with the rate of growth of the population.

According to the census enumeration, the Perambur Division recorded the highest number of population (43,817) and next in order were Royapettah division (33,203) and Tiruvatteeswaranpet Division (31,371). The lowest was returned by the Esplanade Division (3,906).

As compared with the previous census, 26 divisions showed increase in population, the maximum increase having occurred in Perambore Division (14,358) due to definite industrial extensions, Royapettah division (11,888) due to Mambalam extension, Tondiarpet Division (9,012), Korukkupet Division:(8,898), Mirsahibpet Division (8,712) and Tiruvatteeswaranpet Division (7,176). The minimum increase was recorded in Seven Wells Division (666). The four divisions which recorded decreases were Muthyalpet Division (-1,374), Park Town Division (-361), Katchaleeswaranpet Division (-348) and Sowcarpet Division (-266).

Among 6,47,230 persons enumerated, 3,41,223 or 52.7% were males and 3,06,007 or 47.3% females as against 52.4% and 47.6% respectively in the previous census. The ratio of males to 100 temales was 111.5 as compared with 110.1 in 1921.

1931-Census Population in Age-Groups.

The Contract of	Under	1	5	10	15	2)	30	40	50	60	
	1	to	to	to	to	to	to	to	to	and	Total.
	Year	5	10	15	20	30	40	50	60	above	
Males.	6,702	30,814	35,600	33,863	33,738	71,868	59,529	37,844	19,408	11,857	3,41,22
Females.	6,767	30,585	33,961	32,220	33,801	68,389	46,289	28,136	16,112	9,747	3,06,00
	13,469	61,399	69,561	66,083	67,539	1,40,257	1,05,818	65,980	35,520	21,604	6,47,23

It is seen that the highest number of persons is at the age-group of 20-30 and next in order is the age-group of 30-40 both the groups being periods of great economic value in life. The males are in excess of females in all the age-groups excepting in the age-groups of 0-1 and 15-20 where the difference is only very little.

1921 and 1931 Censuses compared in Age-Groups.

Census	Under 1 year	to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 10 50	50 to 60	60 and above	Total.
1921 1931	12,581 13,469	40,958 61,399	56,521 69,561	51,612 66,083		1,11,464 1,40,257	85,680 1,05,818			24,579 21,604	5,26,911 6,47,280
Increase or Decrease	+888	20,441	+ 13,040	+ 14,471	+ 17,552	+ 28,793	+ 20,138	+7175	+796	-2975	+1,20,319

With the exception of the age-group (60 and above) which records a decrease of 2,975, all the other age-groups have shown increase, the maximum having occurred in the age-group 20-30 and the minimum in the age-group 50-60.

The vital statistical rates throughout this report are based on the census return of population and may therefore be considered to represent a more correct picture of the state of Public Health in the City during the year under report than in the intercensal years.

Registration of Statistics.—The staff for registration of births and

deaths was the same as in the previous year.

Prosecutions.—Seven prosecutions were made during the year 1931 for failure to register death, and of these, prosecutions in 6 cases were subsequently withdrawn and the remaining one was convicted with a fine of Re. 1. Another prosecution was made for failure to register birth which was also-subsequently withdrawn.

Births.—The number of births recorded during the year 1931 was 25,738 equal to a rate of 39.8 per 1000 of the population, the average of the previous five years being 36.9. The births and rate for 1930 were 25,662 and

48.5 per mille of population respectively.

Of the total births in 1931, 13,299 were males and 12,439 females. The ratio of males to 100 females was 106.9 against 106.8 in 1930. Preponderance of male births was recorded in 25 divisions, the variations ranging from 101.0 to 118.3 while in one division the births were equal in both sexes. In the remaining four divisions where the female births exceeded the male births, the ratio of males to 100 females varied from 89.3 to 97.5.

		1931.				
1930.	The second	Legitimate.	Illegitimate.	Total.		
13,252 12,410	Males Females	13,121 12,262	178 177	13,299 12,439		
25,662	Total	25,383	355	25,738		
48.5	Rate per 1000 living.	39-2	0.6	39-8		

The number of illegitimate live births was 355 or 1.4% of the total

births as compared with 480 in 1930.

Seasonal Variation.—The largest number of births was recorded in July (2,387) and the lowest in February (1,569). The distribution of births during the different quarters of the year is as follows:—(Page 84).

Quarters.	No. of births Registered.	Percentage of total.	
First Quarter.		5,571	21.64
Second Quarter.		6,802	26.43
Third Quarter.		6,646	25.82
Fourth Quarter.		6,719	26.11
Tota	1	25,738	100-00

Local Variations in the Birth-Rate.—The highest birth-rate (50·7) was recorded in Egmore Division and the lowest in Sowcarpet Division (25·7). Eleven Divisions returned birth-rates above the annual birth-rate of 39·8 per mille of the City. In Sixteen divisions the rates ranged between 30 & 39 and in the remaining three, the lowest was 25·7 as mentioned above.

The birth-rates exceeded the death-rates in 22 divisions, the difference of increase ranging from 0.8 in Amir Mahal Division to 16.7 in Egmore division. In seven divisions where the birth-rates fell below the death-rates, the maximum decrease of 6.8 was recorded in Seven Wells Division. The birth and death-rates of Esplanade Division remained the same. (Annual Form I on Page 55).

Birth-rates in communities.—The birth-rates in the different communities and among the principal sub-divisions of the Hindu Community are shown in tables C & D on pages 82 and 83.

As in previous years, the Mussalman and the European communities returned the highest and the lowest rates respectively.

Communities.	Rate p	er 1,000 living.
Mussalman .		41.6
Hindu		40.4
Indian Christian		34.2
Anglo-Indian	***	35.8
European		13.4
All communities		39-8
		and the same of th

Still births.—The number of still births registered was 1318 against 1260 in the preceding year 1930. This represented 51.2 per 1000 live births.

Deaths.—The total deaths registered in the city during the year numbered 23,162 against 22,839 in 1930. The annual death-rate calculated on the census population of 1931 works out to 35.8 per 1000 of the population as compared with 43.2 in 1930 calculated with reference to 1921 census population, the quinquennial average being 36.5. As stated elsewhere the rates based on the recent census population may be taken with greater confidence to represent a more exact state of the public health than the rates in the intercensal period. The death-rate in 1921 was 38.5 per mille based on the then existing population as enumerated by the census of 1921. A comparison of the death-rates of 1931 and 1921 taking these figures with greater impunity to represent the real state of the public health would show that the state of public health in 1931 had decidedly improved over 1921. Moreover, if the general mortality-rate (38.5) experienced in 1921 had been applied to the population of the city during the year 1931 under report, there would have been 24,918 deaths instead of 23,162—the number actually recorded—a saving of 1,756 lives being thereby effected.

Of the total deaths registered during the year 1931, 11,879 were males and 11,283 females. The ratio of males to 100 females was 105.3 compared with 106.1 in 1930 (Annual Form II on page 56).

Seasonal Variations.—The highest number of deaths occurred in January (2,841) and the lowest in September (1,588). The incidence of mortality in the different quarters of the year is as follows:—

Quarters.	- 311-	Deaths registered.	Percentage to total.
First Quarter			29-90
Second Quarter Third Quarter		5079	26·03 21·92
Fourth Quarter		F190	22.15
	Total	. 23,162	100.00

The mortality was highest in the first quarter during which Cholera prevailed in a mild epidemic form. There were a large number of deaths from Respiratory Diseases. Children and the aged died in largest numbers—pointing out that the un-favourable atmospheric conditions after the heavy storm in the last quarter of the previous year 1930 continued to prevail during this period affecting public health.

Local Variations.—Twelve divisions returned death-rates above the annual death-rate of 35.8 for the city. Among these, four divisions, namely, Tondiarpet, Seven Wells, Amir Mahal and Mirsahibpet divisions recorded death-rates above 40 per 1,000 living and of which the Seven Wells Division returned the highest death-rate (43.4). The death-rates in the remaining divisions (Royapuram, Washermanpet, Korukkupet, Harbour, Choolai, Purasawalkam, Chintadripet and Tiruvatteeswaranpet Divisions) ranged between 36 and 40. As explained in previous reports, high deathrates in these divisions are due to congestion, overcrowding, bad housing conditions, poverty and economic distress of the lower classes.

Among 18 divisions which showed death-rates below the annual deathrate, the lowest (22-7) was returned by the Muthyalpet Division, as in previous years. Ammen Koil and Perambore Divisions which in previous years returned death-rates above the annual death-rate recorded this year death-rates below it.

Mortalit	y-rate in	Communities
----------	-----------	-------------

Community.	h-rate per 1000 living n each community.
Mussalman	 39-9
Hindu	 36.5
Indian Christian	 26.8
Anglo-Indian	 25.0
European	 6.7
Others	 1.0
All communities	 35-8

As in previous years, the death-rate is highest among Mussalman Community. The cause of such persistently high death-rate has been explained in the previous report.

Mortality in Age-Groups.—The following statement shows the number of deaths and percentage to the total deaths at each age-group in different quarters of the year:—

Age-Groups.		Quai	Year	Percentage to		
	March.	June. September. December.			1931.	total deaths
Under 1 Year.	1709	1595	1533	1554	6391	27-6
1 to 5	1235	957	844	731	3767	16.3
5 to 10	293	209	152	133	787	3.4
10 to 15	135	132	86	84	437	1.9
15 to 20	198	199	129	146	672	2.9
20 to 30	565	576	407	402	1950	8.4
30 to 40	550	490	391	405	1836	7.9
40 to 50	481	441	341	314	1577	6.8
50 te 60	469	436	365	389	1659	7.2
60 and above.	1291	993	830	972	4086	17.6
	that,	9	100		10.10	pour Ca
Total	6926	6028	5078	5130	23,162	100.0

The deaths under 5 years and above 60 years of age represent 61.5% of the total deaths at all ages. The highest number of deaths has occurred in the first quarter ending March in all but the age-groups of 15 to 20 and 20 to 30.

Mortality-rate in age and sex.—Age and sex influence death-rate as much as any other factor. The specific death-rates at different age-groups and in sexes are given in the following statement:—

Age-Groups.	Death-rate in 1931 per 1000 living in each age-group.					
0-1.1	Males,	Females.	Both Sexes.			
Under 1 Year.	258-6*	237.3*	248-3*			
1 to 5	60.2	62-5	61.4			
5 to 10	11.3	11.3	11.3			
10 to 15	6.2	7.0	6.6			
15 to 20	7.6	12.3	9.9			
20 to 30	11.8	16.1	13.9			
30 to 40	16.1	18.9	17.4			
40 to 50	24.9	22.5	23.9			
50 to 60	50.1	42.6	46.7			
60 and above.	167.9	214.9	189-1			
All ages	34.8	36-9	35.8			

*Calculated on 1000 births registered during the year.

There has not been any deviation in the trend of the mortality-rates in the sexes either combined or separate as compared with the previous year.

Infantile Mortality.—The number of deaths under one year of age was 6,391 as compared with 6,258 in 1930. The infantile mortality-rate expressed as the number of deaths of infants under one year of age to 1000 live births registered during the year was 248.3 as against 243.9 in the preceding year, the average of the previous five years being 260.8.

The following statement shows the number of deaths and rates from 1921 to 1931:—

Deaths under one year.	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
Number.	5408	6669	5837	6148	6431	6145	5888	6806	5933	6258	6391
Rate per 1000 Births.	281.9	308-0	254.0	264-1	278.8	279-3	237.6	286.8	256-6	243.9	248-3

During the years under reference the infantile death-rates have been fluctuating in contrast to the western countries where there has been a steady and progressive decline on account of intensive maternity and child welfare work which runs concurrently with improvement in general sanitation and housing. The conditions here are adverse to the well-being of infants due to ignorance, prejudice, poverty, and economic distress of the parents living in squalid and ill-ventilated homes and being indifferent to make the best use of maternity and child welfare assistance available in the city. The total number of deaths among infants formed 27.6 per cent. of the total deaths at all ages during the year as compared with 27.4 per cent. in the preceding year.

The distribution of the infant deaths in the different periods of first year of life is as follows:—

Age-Periods.	No. of deaths.	Proportion to total deaths in 1931.
Under 7 days	1418	22.2
7 days & under 1 month	879	13 8
1 month & under 4 months	1086	17.0
4 months & under 7 months.	1226	19-2
7 months & under 10 months.	951	14.8
10 months & under 1 year	831	13.0
	6391	100.0

The highest toll of death has occurred during the first week of life and the total deaths within one month of life represent 36.0 per cent. of the total deaths among infants.

Causes of Infantile Mortality.—The chief causes of infantile deathswere from Respiratory Diseases (1910), Premature births (1670) Dysentery & Diarrhoea (661), Fever and Convulsions (881) and also deaths from debility, marasmus etc. The ignorance of the mother, improper feeding, exposure to all insanitary surroundings form the exciting causes for respiratory and bowel complaints.

Seasonal variations.—During the month of January, the highest infantile mortality-rate (386.4) was recorded and the lowest in October (191.3) (Table E Appendix Page 84).

The distribution of infantile deaths in the different quarters of the year is as follows:---

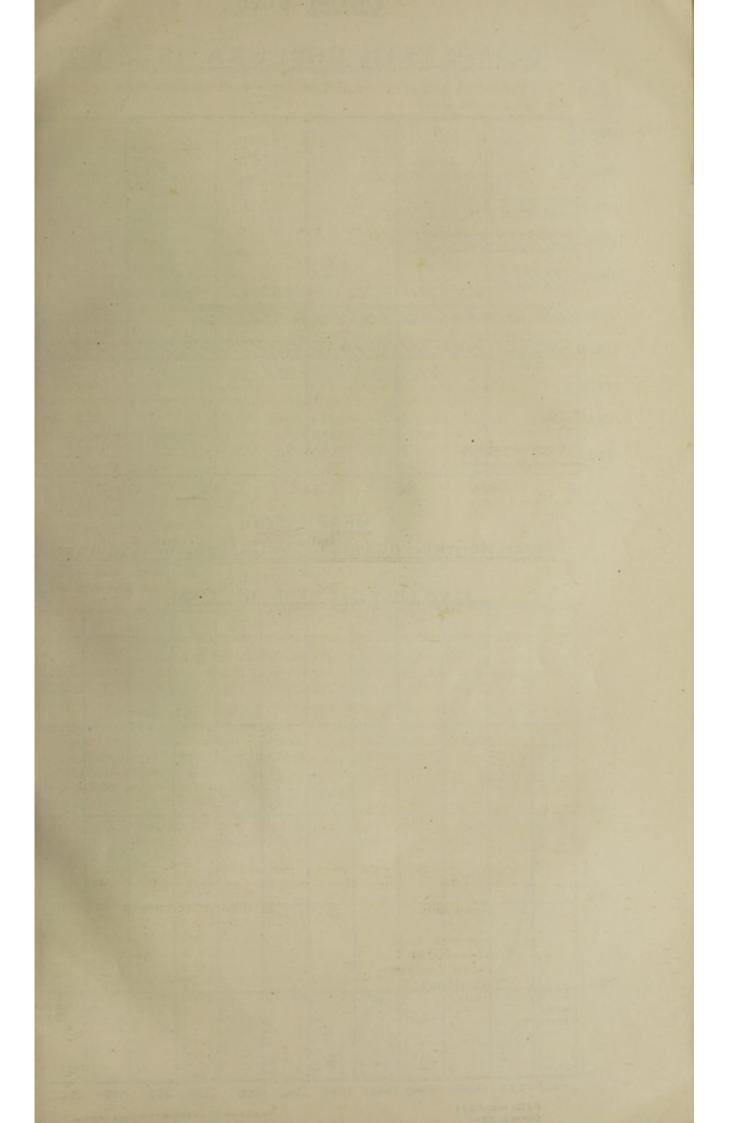
Quarters.		Quarters. Infantile deaths in 1931.	
First Quarter Second Quarter Third Quarter Fourth Quarter		1709 1595 1533 1554	26·74 24·96 23·99 24·31
		6391	100-00

Local Variations in the infantile death-rate.—The Harbour and Kothawal Bazaar Divisions recorded the highest rates of 366.0 and 357.5 respectively. The lowest death-rate was returned by the Egmore Division (178.0)—(Table F on page 85).

Compared with 1930, 13 divisions recorded decreases in infantile-death-rates.

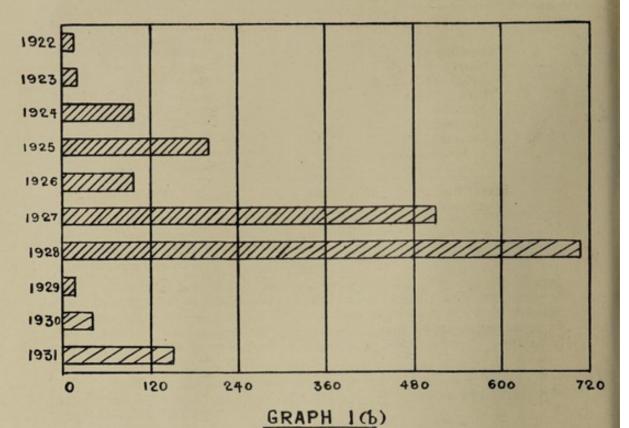
Infantile mortality-rate among communities.—The infantile deathrates among the different communities during the year 1931 are as follows:—

Community.	in mana l	Infantile death-rates per 1000 births.
European		73.1
Anglo-Indian		99.7
Indian Christian		186-2
Mussalman	***	257.0
Hindu		254.4

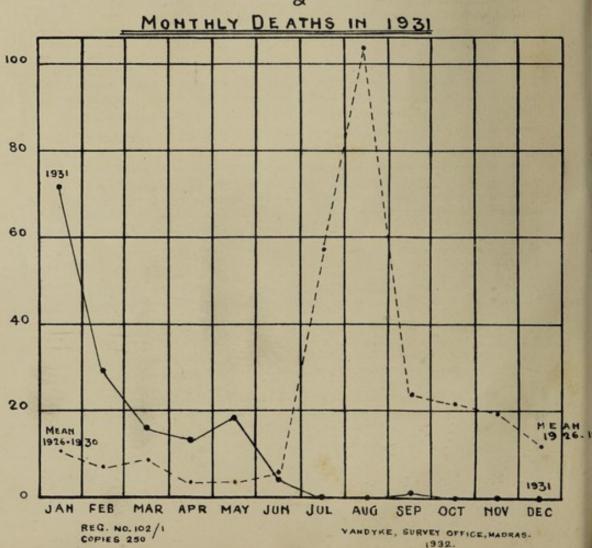


GRAPH 1 (a)

DEATHS FROM CHOLERA 1922-1931



MEAH MONTHLY DEATHS FROM CHOLERA IN 1926-1930



The infantile death-rates for the sub-castes of the Hindu Community are as follows: --

-: Caste.	Infantile death-rates per
	1000 births.
Brahmin	175.4
Chetty	354·1
Vellala or Mudaliar	238-2
Balija or Naidu	233-0
Vannia or Naicker	268-5
Adı Dravida	276-7
Patnavar	120.0
Yadava or Eddyar	234-4
Viswa-Brahmin	395.5

General History of Chief Diseases.—The following statement furnishes the deaths from some of the principal diseases during the last five years:—

	Deaths in					Increas decrease i	
Diseases.	1927	1928	1929	1930	1931	as comp with 1	ared
Cholera	512	708	16	43	153	+	110
Dysentery & Diarrhoea.	3263	3931	3127	3056	2746	_	310
Small-Pox	32	251	506	188	24	THE POST CONTRACTOR	164
Measles	5	59	68	16	3	V 200 2 114	13
Malaria	1367	1599	681	283	277	-	6
Enteric Fever	164	177	130	126	166	+	40
Other Fevers	1095	1555	1731	1961	1748	_	213
General Respiratory		22110	The Ballet				
Diseases	5035	6879	5324	5256	5743	+	487
Tuberculosis	1781	1812	1371	1075	1020	_	55
Deaths from child birth.	293	366	304	328	299	_	29
All other causes	8817	9378	9157	10,507	10,983	+	476
Total	22,364	26,715	22,415	22,839	23,162	+	323

The increase of 323 deaths over the previous year 1930 is more than accounted for by the decrease in the number of deaths from Dysentery and Diarrhoea, Small-Pox, Measles, Malaria, Tuberculosis and other fevers.

Cholera.—The outbreak of Cholera in the city in December of the previous year 1930 has been described in the annual report for 1930 and during the year under report which followed it, the infection continued to prevail accounting for 380 attacks and 153 deaths giving a fatality rate of 40·3 per cent. against 125 attacks and 43 deaths or 34·4 per cent, in 1930. The death-rate was 0·2 per mille of population in 1931 and 0·08 in 1930, the quinquennial average being 0·4 (Annual Form VI on page 60).

The mortality from Cholera for the last five years is furnished below and further illustrated in Graph I (A) and the seasonal incidence is shown in Graph I (B).

Year.	Deaths from Cholera.
1927	512
1928	708
1929	16
1930	43
1931	153

The incidence of Cholera occurred in all but the last quarter of the year. The highest number of attacks (183) and deaths (72) was in January H-4

indicating that the incidence was only due to the continuance of the infection from the previous year as mentioned above. The distribution of attacks and deaths during the different quarters of the year is as follows:—

Year.	Attacl	ks fro	m Ch	olera.	Deaths from Cl	nolera.
First Quarter			284		117	
Second Quarter			85		35	
Third Quarter		***	11		1	
Fourth Quarter	***				TO ATTIONNE	
	Total		380		153	

The first quarter was the worst affected of all the quarters of the year.

Mortality in Districts.—The infection which was limited to certain divisions in the previous year, spread to all the divisions and though attacks from Cholera occurred in all the divisions, there were no deaths in four divisions, namely, Muthyalpet, Ammen Koil, Trevelyan Basin and Park Town.

Mirsahibpet Division reported the highest number of attacks (41) and the highest number of deaths (20). Its death-rate of 0.7 per mille stands the highest recorded of all the divisions. Including this, 13 other divisions recorded either the annual death-rate of 0.2 or above it. The rest of the divisions returned death-rates below 0.2 excepting the four divisions mentioned above which returned no deaths from Cholera.

The preventive measures were vigilantly and vigorously carried out by the Sanitary and Medical staff of the department. The former attended to the prompt removal of patients to the infectious hospitals, disinfection of infected houses, soiled bedding, clothings etc. and kept the contacts under observation. House to house inspection, propaganda lectures, and distribution of pamphlets on Cholera were also done. The medical staff inoculated 17,698 persons with anti cholera vaccine as a prophylactic measure.

Diarrhoea and Dysentry:—Under this group of causes, 2,746 deaths were registered during the year 1931 as against 3,056 in 1930. These correspond to the rates of 4.2 and 5.8 per mille of population respectively in the two years, the average of the quinquennium being 5.3 (Vide page 66).

The mortality during the past five years is herewith furnished and illustrated in Graph II (A).

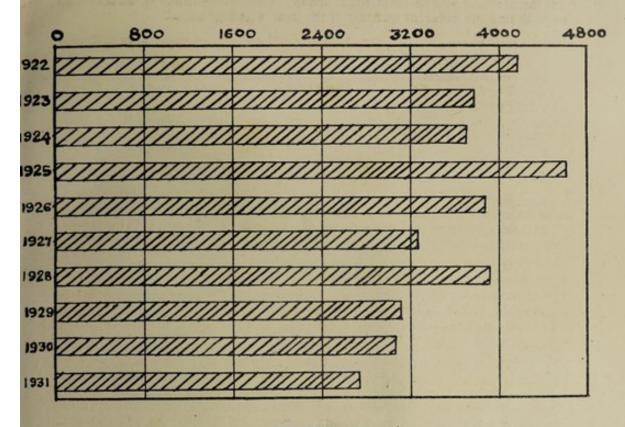
Year.	Deaths.
1927	3263
1928	3931
1929	3127
1930	3056
1931	2746

A gradual decline in the mortality from Diarrhoea and Dysentery is noted since 1928.

The seasonal incidence of mortality from diarrhoea and dysentery is given below and is further illustrated according to months in Graph II (B).

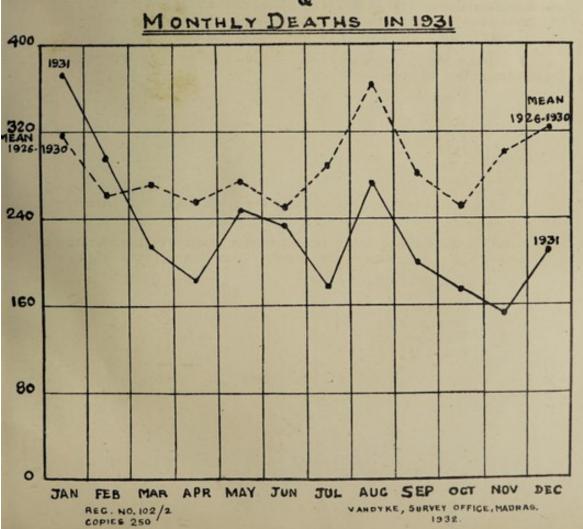
Quarters.		1	Deaths.
First Quarter			883
Second Quarter			669
Third Quarter			652
Fourth Quarter			542
	Total		2,746

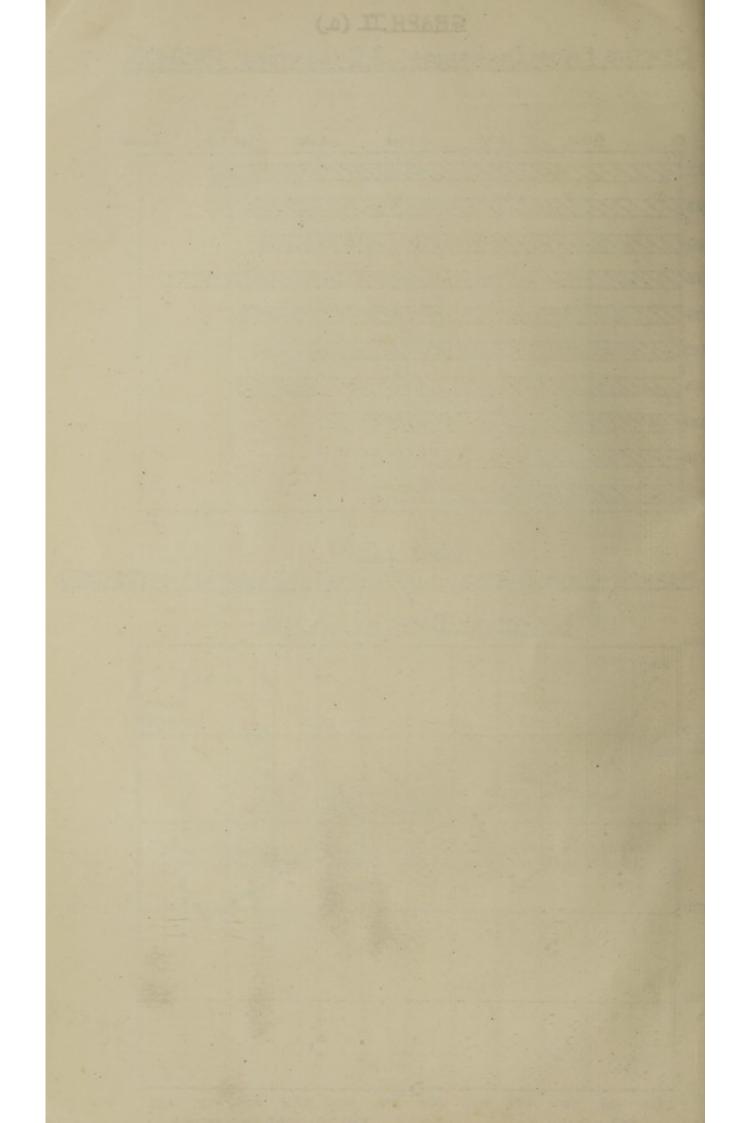
GRAPH II (a) DEATHS FROM DIARRHOEA & DYSENTERY 1922-1931

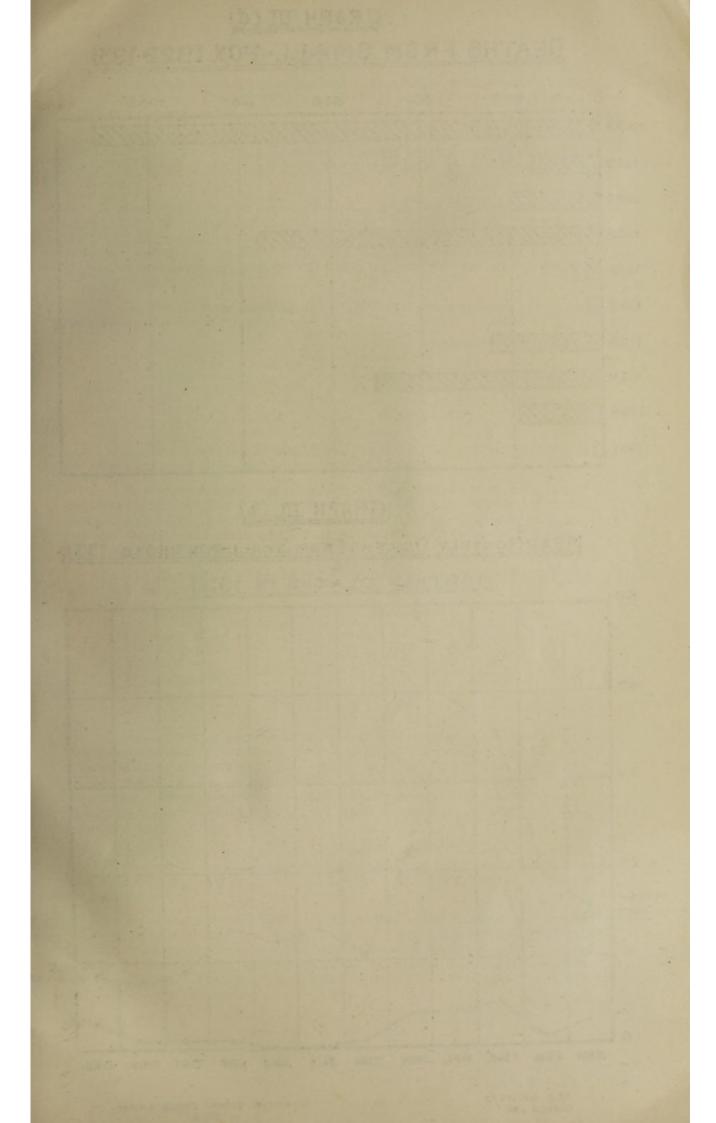


GRAPH II (b)

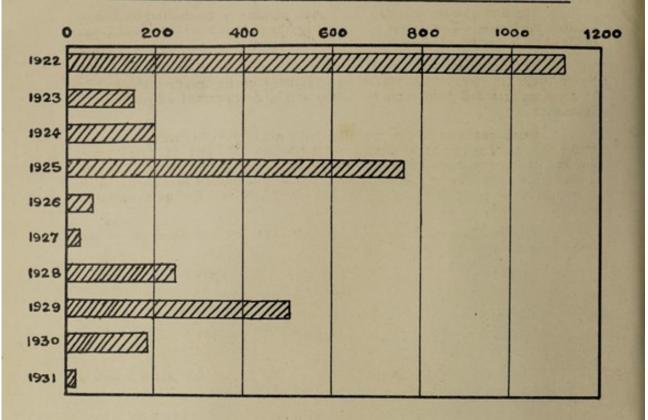
MEANMONTHLY DEATHS FROM DIARRHOEA & DYSENTERY IN 1926-1930



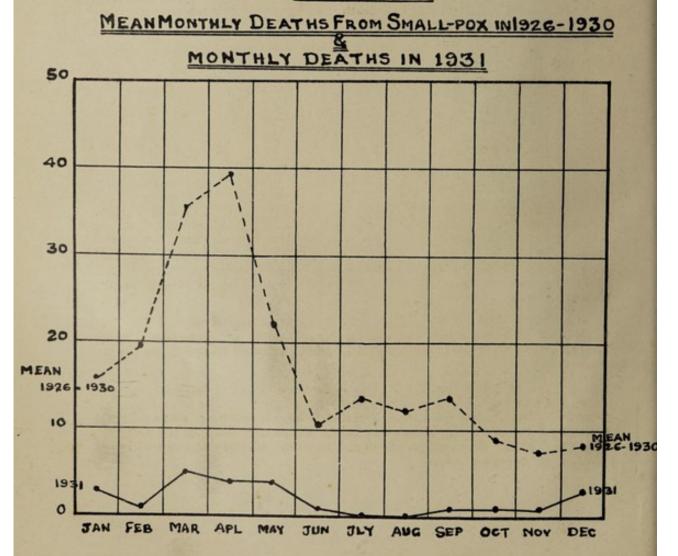




DEATHS FROM SMALL-POX 1922-1931



GRAPH III (b)



The first quarter recorded the highest number of deaths and the fourth quarter the lowest. The largest number of deaths occurred in January (372) and the least in November (154).

The death-rate was highest in Mirsahibpet division (6.8), and in the Seven Wells Dn. (6.4). The lowest was recorded in Esplanade division (1.5). 18 divisions recorded death-rates below the annual death-rate of 4.2 per mille of population,

Small-pox.—Small-pox occurred in a mild form throughout the year under report. The number of attacks and deaths was 109 and 24 respectively and the fatality rate works out to 22.0 per cent. as against 877 attacks and 188 deaths or 21.4 per cent. in 1930. The death-rate corresponds to 0.04 per mille of population as compared with 6.4 in 1930, the rate for the quinquennium being 0.3 (page 61).

The deaths from Small-pox from 1927-1931 are furnished below and further shown in Graph III (a).

Year.		Deaths
1927		32
1928	CH ANDRES - SERVER HELDT	251
1929		506
1930	WHITE COLUMN THE PARTY OF THE P	188
1931		24

The number of deaths from Small-pox during the year under report is the lowest on record since 1908 which reported 13 deaths.

As regards seasonal incidence, the month of March reported the largest number of attacks (26) and deaths (5) and both June and August the lowest attack of one. Deaths were recorded in all the months of the year excepting July and August which returned no death. The seasonal incidence of mortality from this disease is given in Graph III (b).

The distribution of attacks and deaths from small-pox in the different quarters of the year is:—

Quarter:		Attacks.	Deaths.
First quarter.		51	9
Second quarter.		- 22	9
Third quarter.	,	16	1
Fourth quarter.		20	5
	Total	109	24

As regards local variations, six divisions namely Washermanpet, Katchaleeswaranpet, Seven Wells, Trevelyan Basin, Chintadripet, and Chepauk returned no attacks from small-pox. Among the remaining divisions, Royapettah division recorded the largest number of attacks (23) and deaths (9). The Royapuram division reported 15 attacks and 3 deaths and the Choolai division 10 attacks and one death. In other divisions, the number of attacks ranged between 1 to 7.

The death-rate was highest in the Royapettah division (0·3). The Royapuram division recorded the next highest rate (0·1). In eleven divisions the rates ranged between 0·03 and 0·09 and 17 other divisions recorded no deaths from small-pox.

It is observed that 75 per cent. of the total attacks occurred in ages above 10 years indicating that small-pox is no longer a disease of children but of adults. The need for systematic re-vaccination is therefore evident as the immunity conferred on children by infant vaccination does not last for more than 5 to 7 years. The importance of making re-vaccination compulsory cannot therefore be over-emphasised.

The Sanitary Inspectors carried out the preventive measures as detection and removal of patients to the infectious hospitals, disinfection of infected houses and clothes etc. The Medical Staff attended to the vaccination of unprotected children in the neighbourhood and re-vaccination of the contacts (Vide vaccination statement III on pages 90 & 91) Besides these, oral and lantern lectures were delivered on the dangers and prevention of small pox and also leaflets on this disease distributed.

Measles.—Three deaths were registered from measles against 16 in 1930. The death-rate of 0.006 per 1000 population is less than the rates of the previous year (0.03) and the quinquennium (0.05) Vide page 62.

The mortality from measles during 1927-1931 is as follows:--

Year.	Deaths.
1927	5
1928	59
1929	68
1930	16
1931	3

Malaria—The total number of deaths from Malaria in 1931 was 277 as compared with 283 in 1930. The death-rate was 0.4 per mille of population being 0.1 less than the previous year and 1.2 less than the quinquennial average. (page 63).

The mortality from Malaria from 1927-1931 is as follows and is also

shown in Graph IV (a):--

Year.	Deaths.
1927	1367
1928	1599
1929	681
1930	283
1931	277

The mortality from Malaria during the year 1931 is probably the lowest on record-

The seasonal incidence of mortality from this disease is as follows:-

Quarters.	Deaths.
First quarter.	92
Second quarter.	83
Third quarter.	51
Fourth quarter.	51
001	277

The highest number of deaths was registered in January (36) and thelowest in September (11). The seasonal incidence of mortality from Malaria according to months is illustrated in Graph IV (b).

As regards local variations, the highest death-rate was recorded in the Chintadripet division (1.3). In other divisions the death-rates ranged between 0.04 to 0.9 with the exception of the Kothwal Bazaar division which returned no deaths from Malaria.

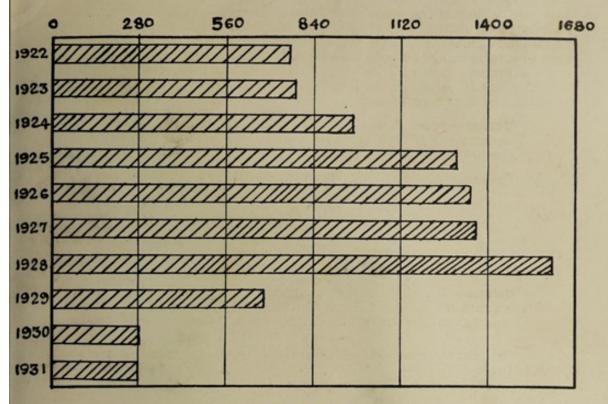
Seventeen divisions recorded death-rates below the annual death-rate of 0.4 per mille of population during the year (Annual Form X on page 63).

The Anti-Malarial operations were carried out by the Special Staff as in previous years and the report of such work is given on page 37.

Enteric fever.—166 deaths from Enteric fever were registered during. 1931 as compared with 126 in 1930. The death-rate was 0.3 per 1000 of population as against 0.2 in 1930, the mean of the past five years being 0.2. (page 64).

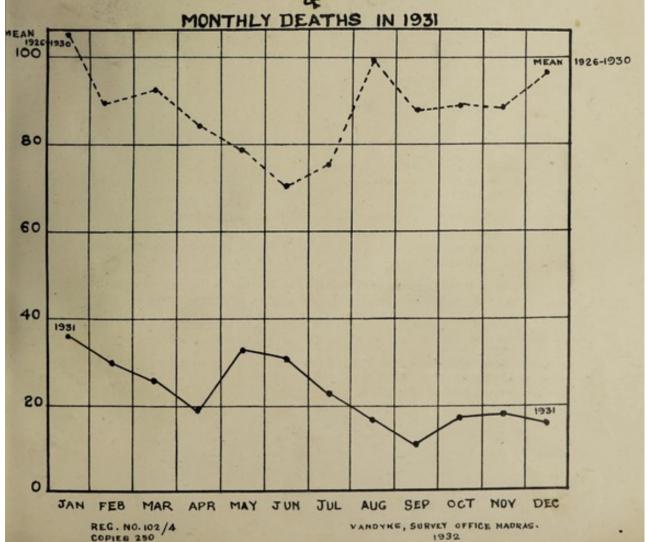
GRAPH IV (a)

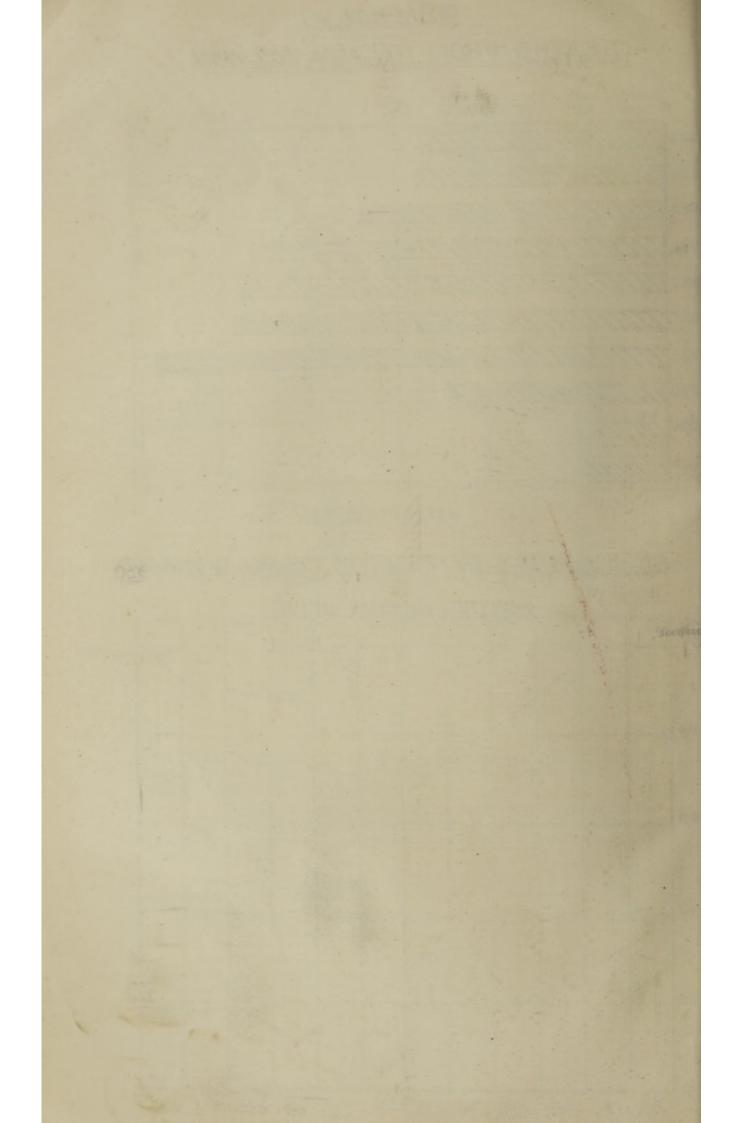
DEATHS FROM MALARIA 1922-1931

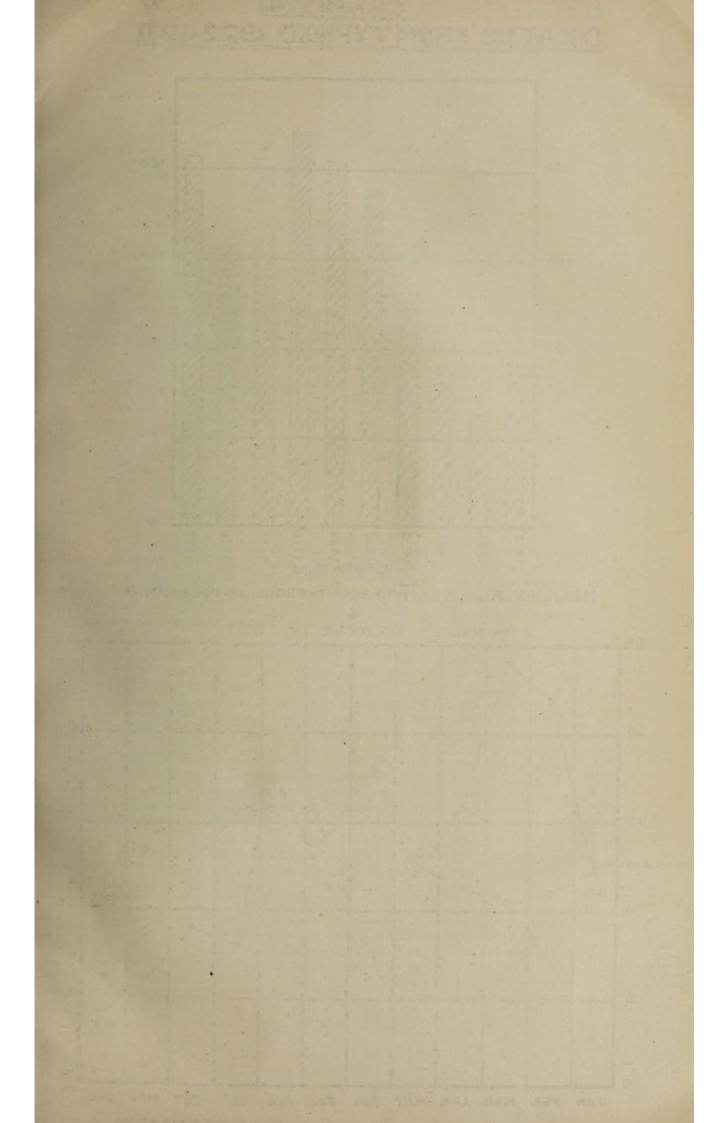


GRAPHIE (b)

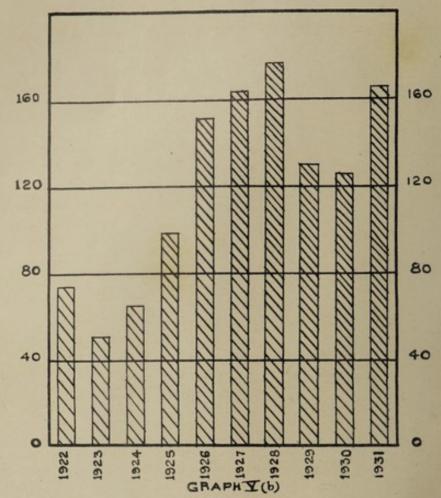
MEAN MONTHLY DEATHS FROM MALARIA IN 1926-1930



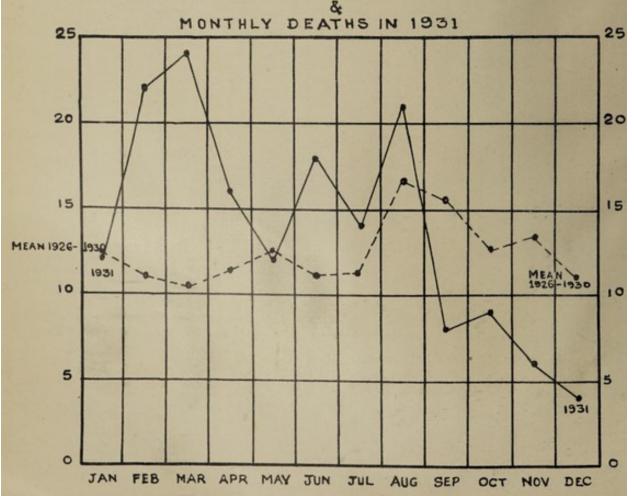




DEATHS FROM TYPHOID 1922-1931



MEAN MONTHLY DEATHS FROM TYPHOID IN 1926-1930



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The mortality from Enteric fever for the last five years is given below and also furnished in Graph V (a).

Year.	Deaths.
1927	164
1928	177
1929	130
1930	126
1931	166

A gradual decline noted from 1928 is upset by the rise in the number of deaths recorded during the year under report.

The deaths from Enteric Fever occurred in all the months of the year-February and March recorded the highest number of deaths (22 and 24 respectively), while December returned the lowest (4). The distribution of mortality during the quarters of the year is furnished below:—

Deaths.
58
46
43
. 19
166

Graph V. (b) illustrates the seasonal mortality from Enteric fever.

As regards local variations, nine divisions recorded death-rates above the annual death-rate of 0.3 per mille, the highest death-rate having occurred in the Esplanade division (2.0). Six other divisions returned death-rates same as the annual rate and among the remaining divisions the rates ranged between 0.03 and 0.2, the lowest having occurred in the Royapettah division. The Sowcarpet division returned no deaths from Enteric Fever.

The incidence of Enteric Fever has always been observed to occur in a sporadic form in the City. In the absence of an epidemic suggestive of wide infection of water or food supplies, it is probable that Typhoid Carriers whom it is very difficult to detect and control may be responsible for the occurrence of sporadic cases here and there. Limited infection of food-supply may also be possible. Though this is a notifiable disease, it is regrettable that all the general Medical Practitioners do not notify cases treated or attended upon by them so that this department may take all preventive measures early to prevent the spread of infection. Any preventive measures adopted after cognizance of a death would be too late as the infection would have already spread. Therefore the Medical Practitioners are reminded to extend their co-operation with this Department to the fullest extent.

The usual preventive measures were carried out in the infected houses and 1065 persons were inoculated with anti-typhoid vaccine as a prophylactic measure.

Other fevers.—Under this head are registered all deaths other than Malaria, Tuberculosis and Enteric Fever which are shown separately. Deaths from Kala-Azar are included in deaths under 'Other Fevers' and the number of Kala-Azar deaths registered during the year was 30 against 32 in 1930. The death-rate from 'Other Fevers' works out to 2.7 per 1000 population which is 1.0 less than the rate of the preceding year, the mean of the previous five years being 2.3 (page 65).

The deaths registered under 'Other Fever' from 1927 to 1931 are:-

Year.	Deaths.
1927	 1095
1928	 1555
1929	 1731
1930	 1961
1931	 1748

The number of deaths during 1931 shows a decrease of 213 over 1930. Graph VI (a) illustrates the mortality statistics from this cause.

The seasonal distribution of these deaths are given below and further shown in Graph VI (b).

Quarter.		Deaths.
First Quarter		 564
Second Quarter		 482
Third Quarter		 373
Fourth Quarter		 329
	Total	 1748

The highest death-rate was reported by the Royapuram division (5.6) and Tondiarpet division (4.9). The lowest rate of 1.0 was recorded by the Puraswalkam and Mylapore Dns. The death-rates of 16 divisions were below the annual rate.

General Respiratory diseases.—5743 deaths or 8.9 per 1000 population were registered under this group of causes as compared with 5256 deaths or 9.9 per 1000 population in the previous year, the quinquennial average being 8.5. Among these, 1910 deaths or 33.3 per cent. of the total deaths from Respiratory causes were among children under one year of age. (page 68).

The mortality from Respiratory diseases for the past five years is given below:

Year.	Deaths.
1927	 5035
1928	 6879
1929	 5324
1930	 5256
1931	 5743

Graph VII (a) shows the mortality statistics from Respiratory diseases.

The seasonal incidence of mortality is as follows and is also illustrated in Graph VII (b).

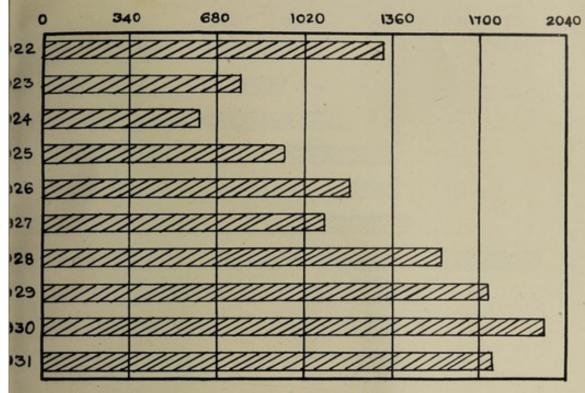
Quarter.	Deaths.
First Quarter	1642
Second Quarter	1611
Third Quarter	1217
Fourth Quarter	1273
	5743
	3743

Seventeen divisions returned death-rates below the annual rate of 8-9 from Respiratory diseases. The Choolai division and the Kothwal Bazaar divisions recorded the highest (12-0) and the lowest (4-4) death-rates respectively.

Tuberculosis.—Tuberculosis accounted for 1020 deaths including Tuberculosis of lungs as against 1075 deaths in 1930. The death-rate for 1931 was 1.6 per 1000 population as compared with 2.0 in 1930 and 2.3 for the

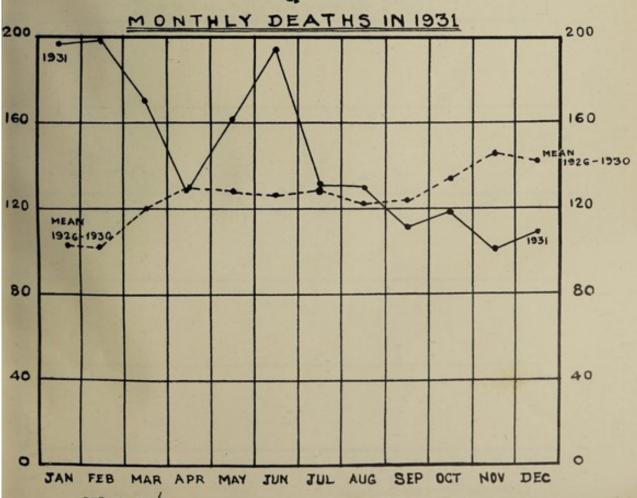
GRAPH VI (a)

DEATHS FROM OTHER FEVERS 1922-1931



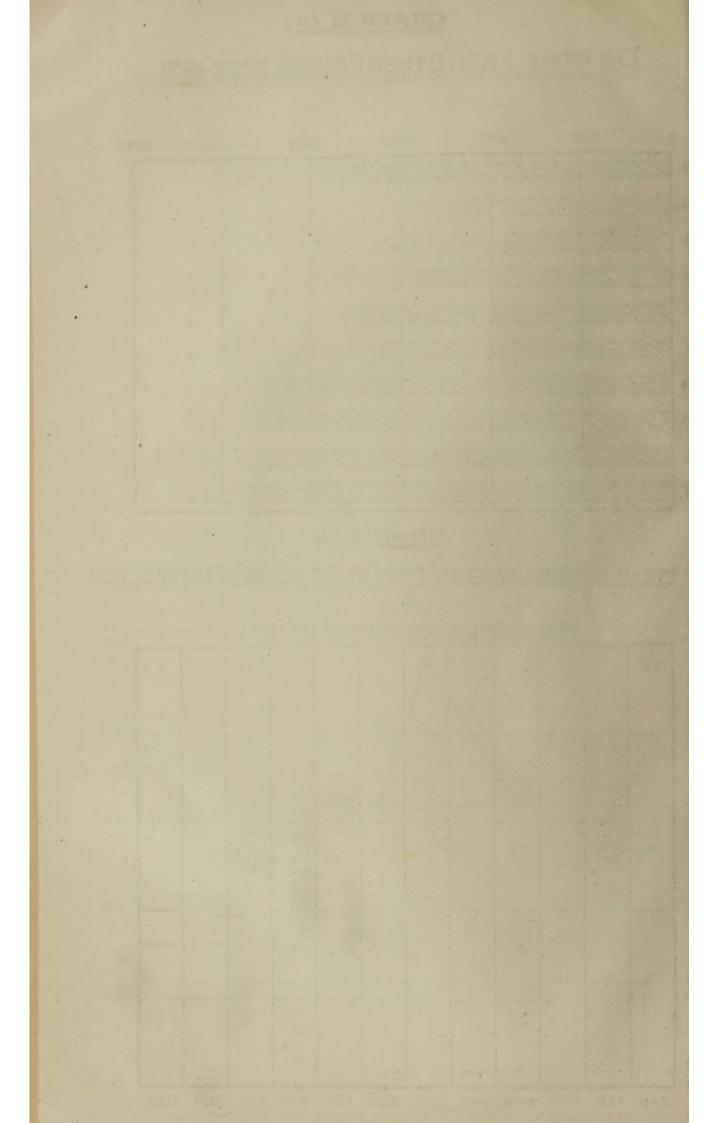
GRAPHYI (b)

MEAN MONTHLY DEATHS FROM OTHER FEVERS IN 1926-1930



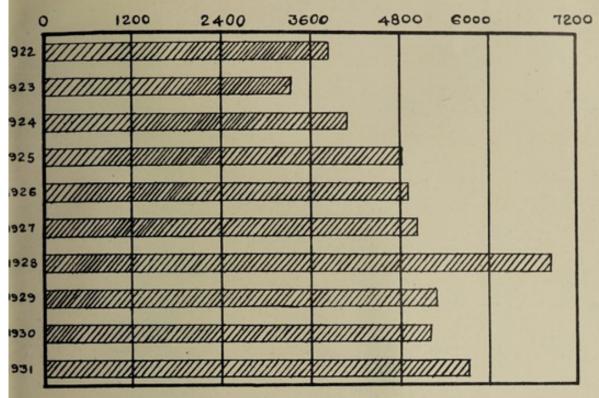
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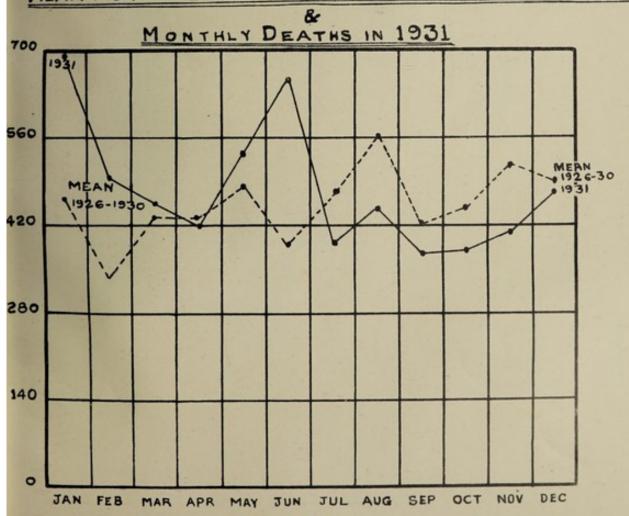
GRAPH VIII (a)

DEATHS FROM RESPIRATORY DISEASES 1922-1931



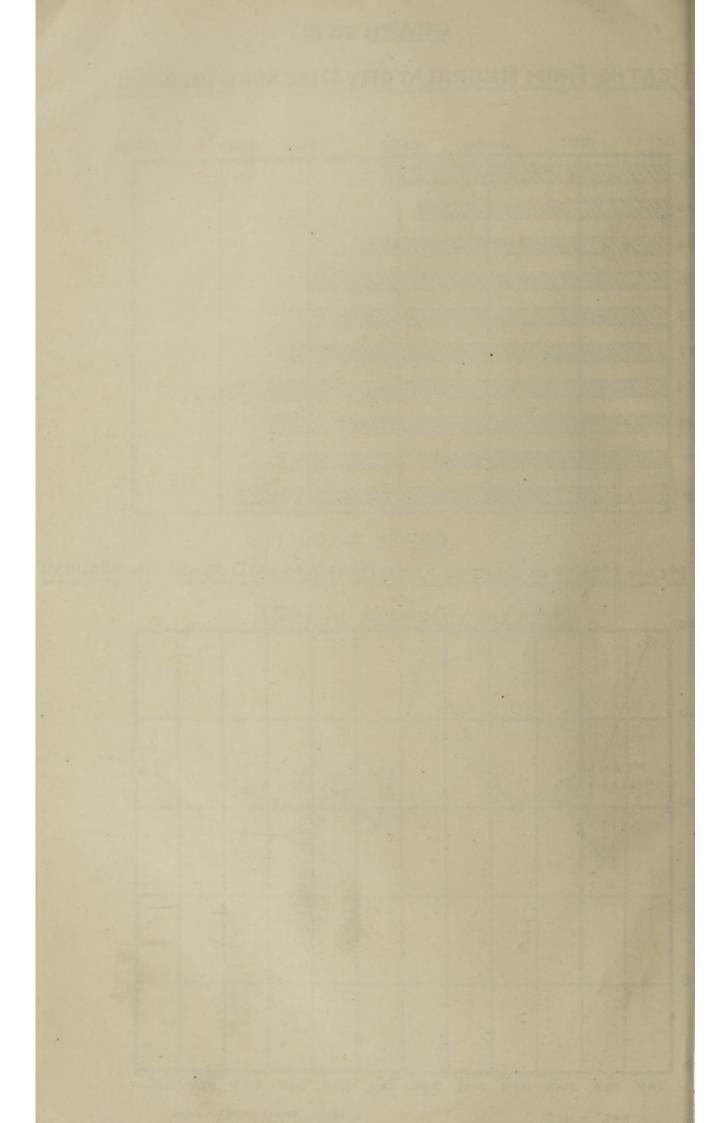
GRAPH YII (b)

MEAN MONTHLY DEATHS FROM RESPIRATORY DISEASES. IN 1926-1930

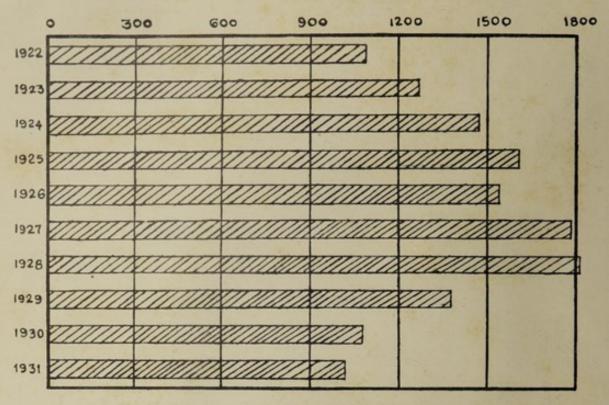


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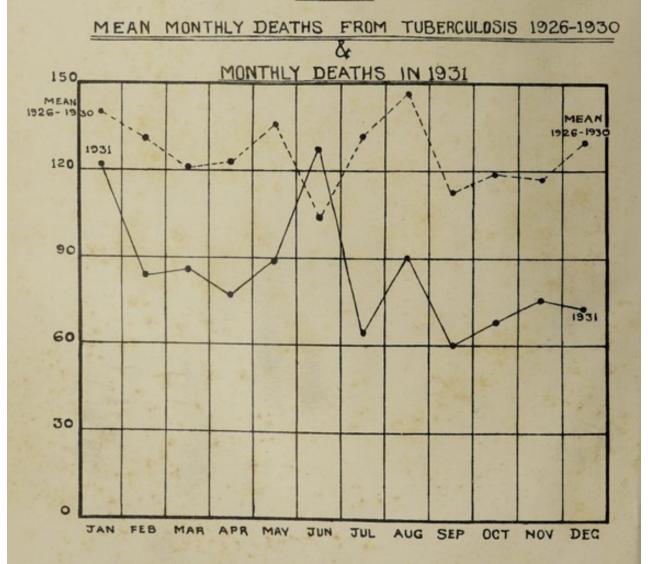
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DEATHS FROM TUBERCULOSIS 1922-1931



GRAPH VIII (b)



quinquennium 1926-30. The deaths due to Tuberculosis of lungs were 843 or 1.3 per mille of population against 924 deaths or 1.7 per mille of population in 1930, the mean of the previous five years being 2.1 (page 67).

The mortality from Tuberculosis for the past five years is given below and is further illustrated in Graph VIII (a).

Year.		I	eaths.
1927			1781
1928			1812
1929			1371
1930			1075
1931			1020

A gradual decline during the last four years is noticeable.

The seasonal mortality in the year 1931 is furnished below and further shown in Graph VIII (b).

Quarters First Quarter		Deaths.
Second Quarter Third Quarter Fourth Quarter		 295 216 217
		1020

The death-rate of the Seven Wells division was the highest recorded (3.4) and the lowest was returned by the Trevelyn Basin and Park Town divisions (0.4). In 21 divisions the rates were below the annual death-rate from Tuberculosis.

Though the mortality from Tuberculosis has shown a gradual decline, the extent or any reduction of morbidity from this disease is not known as notification is not vigorously carried out here. But it is reckoned that the incidence of disease is approximately ten times its death-rate. There is no doubt that the occurrence of Tuberculosis in any place or community is an index to the housing, industrial and economic conditions of the people. The suffering, sorrow and economic distress caused by this disease can be better imagined than described. Its spread from person to person is through direct contact; and open or active cases of consumption should therefore be considered as a potential danger and focus of infection to others.

If the problem is to be tackled effectively, it behaves that all attention, from health point of view should be concentrated in improving the housing conditions, relieving congestion and over-crowding and about which much has been said and written. In addition, it should be remembered that early notification, diagnosis, segregation and treatment of the infective and last but not least education of the masses are measures to bring down the incidence of Tuberculosis (Annual Form XIV on page 67).

Deaths from Child birth.—299 women died during the year from causes connected with child-bearing giving a maternal mortality-rate of 11.6 per 1000 births. In 1930, 328 women died of this cause with a mortality-rate of 12.7 per 1000 births.

The mortality from Child-birth is given below from 1925 to 1931:-

Year.	No. of maternal deaths.	Mortality-rate per 1000 births
1925	344	14.9
1926	352	16.0
1927	293	11.8
1928	366	15.4
1929	304	13.1
1930	328	12.7
1931	299	11.6

A gradual decline in the maternal mortality-rate is noted during the last four years. The deaths of 299 women from child-birth during the year are classified below according to age and causes of death:—

	Deaths in Age-periods.							
Causes of death	10 & under- 15.	15 & under 20	20 & under 30	30 & under 40	40 and under 50		Percentage to Total.	
Puerperal Sepsis Abortion	 1 7 7 7 7 7 7 7	40 2	94 8	56 3	7	201 13	67·2 4·3	
Other accidents & diseases	 1	16	40	25	3	85	28.5	
Total	 5	58	142	84	10	299	100.0	

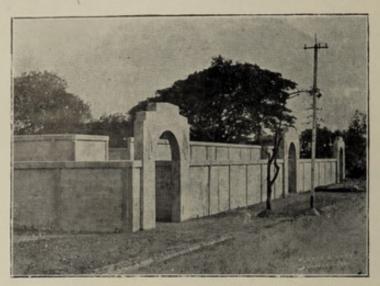
As regards the causes of death, Puerperal sepsis has accounted for 67.2 per cent. of the total deaths from child-birth during the year under report. Calculated with reference to births registered during the year, the death-rate from puerperal sepsis is 7.8 per 1000 births.

It is seen from the above statement that the highest number of deaths (142) has occurred in the age-group 20-30 which represents 47.5 per cent. of the total deaths from child-birth and it is further observed that the deaths from Puerperal sepsis in this age-period are the largest of all the deaths from puerperal sepsis in any of the age-periods under reference.

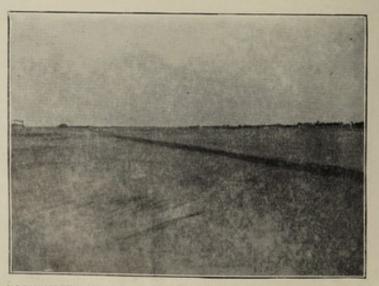
Age-group-	Age-group.		e-group. Deaths from child-birth.		Percentage to total deaths		
10-15		ð	1.7				
15-20		58	19-4				
20-30		142	47.5				
30-40		84	28-1				
40-50		10	3-3				
		299	100.0				

The conditions productive of a high rate of mortality among mothers should also suggest of a high rate of morbidity among mothers which is unfortunately not known. The need for effective arrangements for the care and supervision of expectant mother is no doubt a matter of great importance. But ignorance, prejudice and apathy of the mothers work against any propaganda done to enlighten and enlist the expectant mothers to attend the ante-natal clinics in the City whose care is the welfare of the expectant mother and her coming infant.

Deaths from "other causes.":—The deaths under 'Other causes' during 1931 were 10,708, excluding 275 deaths from injuries shown separately in the Annual Form XIX on page 72 as against 10,258 in 1930. The death rates for the two years were 16.5 and 19.4 per mille of population respectively, the quinquennial average being 14.0. The term 'Other causes' includes deaths from a host of diseases which relate to circulatory, digestive, nervous, genitourinary and other systems excepting Respiratory system. The diseases under this group of 'Other causes' are given in detail in the Annual Form XX on page 74 to 79.



CREMATION GROUND AT PERAMBUR (NEWLY CONSTRUCTED)



KORUKUPET REFUSE DUMPING GROUND (AFTER-IMPROVEMENTS)

Certified deaths:—934 and 2439 deaths were certified by the General Medical Practitioners and by the various hospitals in the City respectively as to the causes of death. The certified deaths represented 14.6 per cent, of the total deaths registered during 1931 as compared with 15.9 per cent, in 1930. The number of deaths certified by the Medical Practitioners in the City is far below the the actual number of persons attended or treated during the last days of illness. This department regrets to note that the practitioners have not been fulfilling the duties expected and required of them in this respect.

The deaths which were not certified, were verified by the Medical Registrars as to the causes of death.

Burial and Burning Grounds:—These were inspected by the Sanitary Inspectors. Out of the total number of deaths registered excluding still-births, 18,168 corpses were buried and 4994 corpses burnt. 98 licensed diggers worked during the year. 314 applicants were granted plots of ground for erection of tombs and the amount realised therefrom was Rs. 993/14/0. 872 applicants were given extracts of Births and Deaths and the amount realised was Rs. 1130-

VACCINATION.

Staff:—During the year 1931, the Vaccination staff was the same as in the previous year—15 Sub-Assistant Surgeons assisted by 34 Vaccinators, including 2 female Vaccinators to work in Gosha and Mussalman localities.

Operations:—During the year under report, 36,637 Vaccinations were performed of which 27,260 were primary vaccinations and 9,377 re-vaccinations. Besides, 581 re-vaccinations were reported to have been done in Government Penitentiary of which 303 were successful and 278 unsuccessful.

The Vaccination figures for the years 1930 and 1931 are compared in the following statement:—

		No.	1930.	1931.	Increase or decrease.
Primary vaccination Re-vaccination	,	:::	25,958 33,257	27,260 9,377	+1302 -23,880
	Total		59,215	36,637	-22,578

The decrease in the total number of Vaccinations was mainly due to the fall in the number of re-vaccinations consequent on the low incidence of small-pox throughout the year. On the other hand there was a marked increase under Primary Vaccinations. The number of Primary vaccinations performed in 1930 was mentioned in the last year's Report as the highest recorded since 1911; but the number of primary vaccinations done during the year under review is the highest recorded in the City.

The following statement furnishes the vaccination statistics for the

	Years.	Primary Vaccina- tions.	Re-vacci- nations.	Total
11/0/5	1927	20,763	11,875	32,638
	1928	99 0=1	29,591	51,642
	1929	99 950	43,356	66,606
	1930	95 959	33,257	59,215
	1931	97 900	9,377	36,637

A steady and well marked improvement under Primary Vaccination year after year is evident, and the increase in the year under review over the previous year is significant. The number of Primary Vaccinations performed during the year is the highest on record.

The marked achievement in the primary vaccination work, as explained in my previous report, is due to the intensive Vaccination Campaign carried out by the Vaccination Staff throughout the year irrespective of the presence of small-pox in the City. Not less than 20 houses are inspected daily by each of the staff for detection and vaccination of un-protected children born in the City or Mofussil evading vaccination in some way or other.

The fall in the number of re-vaccinations, as previously stated, is ascribed to non-intensity of the prevalence of small-pox throughout the year and to the fact that re-vaccination is purely voluntary.

Number of successful Vaccinations:—The number of successful vaccinations during the last five years is set forth in the following statement:—

	Year.	Primary Vaccina- tion.	Re-vacci nation.		Total.
16 10 000	1927	 20,588	3,311	3017	23,899
	1928	 21,762	7,932		29,694
	1929 1930	 22,272 25,201	10,860 6,492		33,132 31,693
	1931	 27,042	1,997		29,039

Success-rate:—The success-rates for the previous five years are as follows:—

Store	Year.		Percentage of success in primary vaccinations.	Percentage of succes in re-vaccinations.	
b male	1927		99.7	33-7	
	1928		99-7	36.3	
	1929		98.5	30.1	
	1930		99-0	23.6	
	1931		99-6	26.7	

The percentage of success under primary vaccinations during the year shows a decided improvement and records an increase of 0.6 per cent. over the previous year.

Number of persons successfully vaccinated per 1000 population:— Calculated with reference to population, the rate of successful vaccination per mille of population for the year 1931 is 44.9 as compared with 59.9 in 1930, the rate for this year having been calculated on the increased population reported by the recent census.

Infantile vaccinations:—The total number of vaccinations performed in infants under one year of age was 19,823 in 1931 as compared with 18,187 in 1930 and the number successful was 19,703 against 17,774, thus recording

an increase of 1929 over the previous year. The figures for the previous five years are as follows:—

Vaccinations	under one	vear of age.
T MODILIMMETOTIVE	GILL OIL	I ART OF THE CO.

Year.	No. of primary vaccinations performed.	No. of successful primary vaccinations.
1927	16,219	16,097
1928	17,357	17,182
1929	16,420	15,929
1930	18,187	17,774
1931	19,823	19,703

Among 19,823 infants vaccinated, 14,735 were born in Madras and 5,088 in Mofussil against 14,434 and 3,753 respectively in the preceding year. The vigilance and alertness of the Vaccination Staff in detecting and vaccinating a large number of mofussil births is therefore commendable.

Vaccination in districts:—Perambur division recorded the highest number of vaccinations (3492) and came after it Royapettah division (2316) and the Vepery division (2096). The lowest was recorded in the Esplanade division (220).

As compared with 1930, only two divisions viz. Nungambakam and Royapettah showed increase of 388 and 781 respectively in the total number of vaccinations performed during the year 1931. The decrease in other divisions was due to fall in the number of re-vaccinations.

Nevertheless, the number of primary vaccinations returned by the divisions has more than compensated for the general fall. In 21 divisions increases were recorded over the previous year, the most marked being in Royapettah division (302), Washermanpet division (235), Nungambakam division (211), Perambur division (208), Korukkupet division (140), Mylapore division (123), Chintadripet division (111) and Choolai division (100). In other divisions the increase ranged below 100 and the minimum increase was shown by Trevelyan Basin Division (8). Among the 9 divisions which showed a decrease, the maximum decrease was noted in Royapuram division (156) and minimum in Kilpauk division (6), the reason being that un-protected children were not sufficiently available owing to the intensive vaccination campaign carried out in previous years.

Verification of Births:—In 1931, 26,293 births were verified for purposes of vaccination as against 25,643 in 1930. 4,252 children died before attaining the age of one year and without vaccination. 4,831 children left the City without being vaccinated and the number available for vaccination was 17,210 of which 12,674 or 73.6 per cent. were vaccinated against 72.9 per cent. in the previous year (vide Vaccination Statement II on page 89).

Postponement of Vaccination in children: -1498 medical certificates were received during the year for postponement of vaccination in children against 1267 in 1930.

Inspection of vaccinated persons:—The Health Officer, the two Asst. Health Officers and the Medical Vaccinators, as usual, inspected the vaccinated persons. The results of 27,149 or 99.6 per cent. of the total primary vaccinations and 7310 or 77.9 per cent. of the total re-vaccinations were verified by them during the year.

Lymph:—The lymph was supplied, as usual, by the King Institute of Preventive Medicine, Guindy. The Medical Registrar Vaccinator in charge of

Chintadripet Vaccination Depot received the supply and distributed it to all the depots in the City. The lymph received was for 40,125 cases during the year and the total number of persons vaccinated was 36,637.

Frosecutions:—A parent was prosecuted for failure to vaccinate his child but the prosecution was withdrawn subsequently.

Training of Vaccination pupils:—73 students were trained in Vaccination work by the Medical Vaccinators during the year under report.

Cost of Vaccintion:—The cost of each successful vaccination was Rs. 1-3-9 as against Rs. 1-7-2 in 1930.

REPORT OF THE PORT HEALTH OFFICER, MADRAS FOR THE CALENDER YEAR 1931.

Incoming Vessels:—796 vessels arrived here during the year from different ports with 64,073 crew and 1,00,477 passengers as against 796 vessels with 74,541 crew and 1,24,959 passengers in the previous year.

Out-going Vessels:—266 vessels with 29.991 crew and 15,223 passengers were inspected and granted Bills of Health during the year as against 333 vessels with 38,466 crew and 30,825 passengers in the previous year.

Epidemic and Infectious Diseases:—14 cases of Chicken-Pox and 1 case of Measles were landed from ships and sent to the Isolation Hospital, Tondiarpet.

Disinfection of bedding and clothing of deck passengers and crew landing and embarking here is carried on at the disinfection shed at the discretion of the Port Health Officer as usual. The disinfection shed is in charge of a Sub-Assistant Surgeon and a Nurse is employed to assist in examining the female passengers.

Rats on steamers:—No deaths among rats were found on any of the vessels that entered the harbour during the year under report.

SANITATION.

The administration of the Health Department was carried on by the Health Officer assisted by two Assistant Health Officers for the North and South Ranges. The conservancy continued to be under the charge of the Drainage Superintendent working under the Health Officer. The Lady Superintendent in charge of the Child Welfare Scheme was working under the control and directions of the Health Officer till 7th October 1931 when she was placed in independent charge of the scheme.

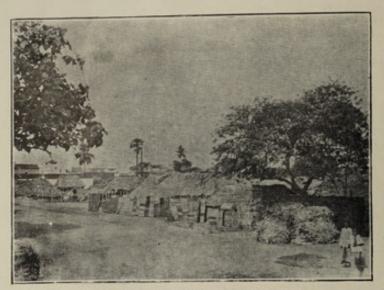
The Office of the Assistant Health Officer, South Range was shifted back to the Ripon Buildings on 1-4-1931 from Pudupakam where it had been located as an experimental measure.

Drainage:—There has been a steady progress in the extension of the underground sewers. 45,061 feet of underground drainage were laid during the year under report making a total length of 10,24,655 ft., upto 31-12-31 (vide Statement on page 92).

The water-carriage system is being introduced in the sewered areas.

1829 Flush-out latrines were installed during the year.

Water supply:—The supply of water continued to be tested daily at the Kilpauk water works laboratory, the samples thereof being systematically taken from different parts of the City. A separate report of the Water Analyst is appended to this report.



BOGIPALAYAM (BEFORE IMPROVEMENTS)



BOGIPALAYAM (AFTER IMPROVEMENTS)

The Corporation maintains two Dhobikanas, one at Chetput and the other at Robinson Park, which draw water from the Water supply of the City. There is need for more of these.

A bathing fountain was provided for the convenience of the poor. More bathing fountains should be put up in all crowded parts and slums of the City in the interest of the health of poorer classes of people living in poor tenements devoid of these facilities.

Slums and Housing:—The Corporation with the co-operation of the Government is doing its best as far as possible and practicable in the matter of providing sanitary dwellings to the poor. It is very necessary that the Co-operative Department of the Government should extend its activities in this behalf.

House to house inspection was carried on systematically and action taken wherever necessary. During the year 13,598 houses were inspected. Action was taken in respect of 4,462 dwellings and the improvements notified were carried out in 3,392 premises. (Vide pages 96 to 99 for statement.)

As usual, all plans with applications for construction or reconstruction of buildings were referred to this department by the Works Department for scrutiny, and suggestions from a sanitary point of view. The number of applications so scrutinized were 2,487.

Hycol was the chief disinfectant used in connection with the disinfection of houses. The number of premises disinfected was 1,728 out of a total number of 13,871 inspected with reference to detection of epidemic diseases and the quantities and the kinds of disinfectants used were:—

Hycol ... 245 gallons and 5 bottles.

Phenyle ... 34 ,, and 3 ,,

Phenodyne ... 5 ,,

Bleaching powder ... 3 cwt.

Chunam ... 12 paras.

Factories:—The Health Officer and the two Asst. Health Officers continued to inspect the factories as Additional Inspectors of Factories. Defects noted were intimated to the Chief Inspector of Factories. As a result of the action taken by this department flush-out latrines were introduced in 6 Factories in the place of dry latrines

Offensive and Dangerous trades:—Sanitary control is being exercised over the places where these trades are carried on and bylaws governing them have not yet been sanctioned as stated in the last year's report. During the year, 4,873 applications for licenses were received of which 4,596 were sanctioned: licenses were refused in 155 cases and the rest were pending. The corresponding figures for the previous year were 4,147, 3,831 and 128. In 2,232 cases, improvements were found necessary and were carried out in 1,742 cases. Prosecutions were launched in 923 cases of which 279 were for breach of conditions of the license.

The Corporation maintains two Model Cattle Yards at Basin Road and Chintadripet and the number of animals housed was 296. The Cattle Yard in Purasawalkam has just been built.

The question of milk supply remains still unsolved. The proposal that the Corporation should maintain a dairy farm of its own with extensive pasturage for the cattle could not materialise owing to the financial stringency.

The Corporation maintains two cart stands. One of these at the Elephant Gate is under the control of this Department and was leased out on contract.

The Corporation maintains the Slaughter Houses at Perambur where cattle, sheep and pigs are slaughtered. In the absence of any municipal conveyance, the enforcement of sanitary regulations in the matter of removal of meat from the slaughter houses is being carried out as far as practicable.

The right of collecting rents and fees from the cattle and sheep slaughter houses was sold in auction for Rs. 20,000 and Rs. 57,250 respectively. The blood from the Slaughter Houses is being removed and trenched departmentally.

As regards slaughter of animals for religious purposes in places other than the Slaughter Houses, the Corporation has been permitting the same free and on payment of fees. The amount collected during the year was Rs. 105-2-0

Food Control:—The Corporation maintained three markets, the Moore Market, the Smith Field Market and the Vegetable Market at Purasawalkam. Special attention, hewever, was given to the inspection of food stuffs in the various private and public markets and other places in the City. The unwholesome articles exposed for sale were destroyed and the parties concerned warned not to repeat the offence. (Vide statement on page 94 and 95.)

PREVENTION OF FOOD ADULTERATION.

The work started in 1930 was pushed on. Samples of ghee, butter, coffee powder, tea, milk, gingelly-oil and cocoanut oil were taken and sent for analysis.

During the year, 820 samples were sent to the Public Analyst, Guindy, for analysis, and reports of tests were received in 730 cases (including a few samples taken in the previous year) of which 426 (58.30 per cent.) were genuine and 304 (41.64 per cent.) adulterated. The statement showing the number of samples taken and the results of analysis received and the percentage of adulterated samples to those sent for analysis is given below.

Articles.	No. of samples sent up for analysis,	No. of samples for which certificates were received up to 31-12-31.	No. of samples found genuine.	No. of samples found adulterated,	Percentage of adulterated samples to samples analysed in '31.	Percentage of adulterated samples to samples analysed in '30.
Ghee	 318 24	294	129	165	56.12	88-5
Butter	 24	19	15	4	21.05	33.3
Coffee powder	 149	128	44	84	65.62	96.2
Tea	 126	117	104	13	11.11	14.0
Milk	 87	70	42	28	40.5	29.2
Gingelly Oil	 113	99	89	10	10.1	100.0
Cocoanut Oil	 3	3	3	***		•••
Total	 820	730	426	304		

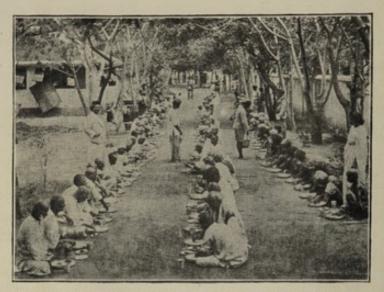
Ghee.—The above statement will indicate that 318 samples of ghee were sent for analysis and reports were received in 294 cases, including those sent towards the close of the last year. 165 samples or 56.12 per cent. were certified as adulterated, the adulterant being foreign fat. The percentage of adulteration varied from 20 to 90 per cent. In 141 cases the results of analysis revealed adulteration to the extent of 50 per cent. and over.

Butter.—4 out of 19 samples analysed were found adulterated. Water was the adulterant and its presence varied from 6 to 22 per cent.

Milk.-28 samples or 40 per cent. of the samples analysed showed admixture of water and the extent of adulteration ranged from 7 to 55 per cent.

Coffee Fowder.—The reports of analysis of 128 samples were received during the year. Of these 84 samples or 65.62 per cent. were certified as adulterated. The chief adulterant was exhausted coffee and chicory and it varied from 20 to 75 per cent.

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INMATES OF THE CORPORATION POOR HOUSE AT THEIR MEALS



PLINTHS CONSTRUCTED AT COCHRANE BASIN SETTLEMENT

Tea.—The results of analysis of 117 samples of tea showed that 13 samples or 11-1 per cent. were adulterated, the chief adulterant being imitation tea which was present from 13 to cent per cent.

Gingelly Oil.—During the year, 113 samples of gingelly oil were sent for analysis. Results of analysis were received in 99 cases, of which 10 samples 10-1 per cent. were certified as adulterated chiefly with groundaut oil, and the extent of adulteration ranged from 10 to 100 per cent.

Prosecutions were launched in 278 cases of adulterated samples, and convictions obtained in 199 cases and the fines collected amounted to Rs. 1,677. There were 181 withdrawals and 26 were pending at the end of the year. The following statement gives details of the above under various heads.

Prosecution Statement.

Articles.	No. of adulterated cases prosecuted.	No. of cases convicted.	Amount of Fines levied.	No. of cases withdrawn.	No. of cases pending.
Ghee	154	75	Rs. 935	169	13
Butter		3	20	1	10000
Coffee Powder	1 00	68	380	8	6
Tea	. 19	20	113	2	
Milk	97	24	120	1	6
Gingelly Oil	9	9	109		1
Total	278	199	1,677	1.81	26

N.B .- The above table includes cases of 1930 disposed of in 1931,

It may be noted from comparing the percentage of adulterated samples to total samples anlysed during 1930 and 1931, that there is a marked fall in the percentage of adulterated samples during 1931 except in the case of milk. This is due in a large measure to the realization on the part of traders of the risk they run in adultering food stuffs. The amendments to the Food Adulteration Act now under the consideration of the Government will soon make the Act upto-date and comprehensive.

Weights and Measures — Much useful work was done by the two Insspectors of Weights and Measures who carried out systematic inspection of all markets, bazaars, shops, hawkers etc., during the year with reference to the Weights, Seales and Measures. A systematic campaign was conducted against the milk men who were in the habit of using unstamped short measures. In 221 casess, the weights, measures and scales found defective were seized. In many cases the vendors were let off with a warning that defective weights noticed again would be seized and they would be dealt with as per bylaws. Prosecutions were launched in 73 cases during the year, and 67 were disposed of including five pending of the previous year. The total fine collected was Rs. 296. As a result of the activities of the Inspectors, the Vendors have been made to realise that they could no longer use false weights, scales, and measures to deceive the public.

Medical Relief.—In addition to the two Infectious Diseases Hospitals, 19 allopathic dispensaries and two dispensaries affording Unani and Ayurvedic treatment were continued to be maintained by the Corporation. One more Sidha dispensary at Kosapet was opened on 24-1-31. The last three institutions are placed in charge of medical men passed out of the Indian School of Medicine. Vide statements of the cases treated in the institutions on page 100.

Poor House.—The Poor House continued to be maintained and has become very popular. The need for legislative enactments to prevent begging

in the streets and to facilitate the compulsory removal of the beggars to the poor house with the aid of the Police has been stressed in the previous reports. It is hoped that the provisions of the City Police Act and the Children's Act in this behalf will soon be amended to meet the requirements. The year opened with 113 inmates and during the period under report the number of inmates admitted was 152, number discharged 82, number died 19, number absconded 8, leaving a total of 156 on 31-12-31.

Anti-rabic measures:—The Corporation maintains an electrocuting chamber at Basin Road, where the most up-to-date method is adopted in the destruction of stray and unclaimed dogs. During the year 7,707 stray dogs were admitted into the Chamber of which 6,763 were destroyed, 180 dogs were returned to the owners, the amount collected being Rs. 551-4-0 and two unclaimed dogs which were found to be valuable were sold in auction.

Zoo:—The Zoological gardens maintained by the Corporation hasbeen improved in recent years. During 1931, a cage for the baboons was constructed out of Rs. 1000 presented by Mr. Cunniah, Proprietor of the Royal Theatre. Besides this, some other improvements were carried out. Owing to the financial stringency much money could not be spared for the improvements to the Zoo.

The right of collecting the entrance fee and for keeping bazaars, were sold in auction for Rs. 17,000 and Rs. 1,350 respectively. The right of plying boats in the lake was sold for Rs. 500.

REPORT ON THE WORKING OF THE INFECTIOUS DISEASES HOSPITAL, TONDIARPET, FOR THE YEAR 1931.

Staff:-

1.	Medical Officer (Asst. Surgeon)	1	1
2.	Sub-Assistant Surgeon		î
3.	Senior Sick Nurse		ì
4.	Sick Nurses		0
5.	Nurses (Midwives)		0
6.	Clerk	2	2
7.	Compounder		L
8.	Wireman	1	L
9.		1	L
9.	Ambulance driver and other menial staff.	1	Ł

The total number of admissions during the year was 781. 92 contacts were also admitted. The total average daily number of patients was 24.4. The case mortality for all diseases was 9.6 per cent.

Diseases:-

Cholera:—There were 172 admissions also 30 remaining from previousyear of whom 39 died. The mortality was 19.3 per cent. Of these 4 were moribund cases. The highest number of admissions 88 was in January (Vide Table II page 102).

Chicken-pox .- There were 264 admissions and no death.

Measles:-There were 42 admissions and no deaths.

Small-pox:—There were 46 admissions also 2 remaining from previous year and 8 deaths, case mortality per cent being 16.7.

A statement showing the vaccinal condition of these 46 cases classified under different age group is appended (Vide table V page 104).

15 were not vaccinated and there were 6 deaths among these. Among 4 cases in children under 1 year, 3 were below 6 months and the other 11 months old. (Table VI on page 105).

31 were vaccinated of which only 18 showed satisfactory marks of vaccination and none of these proved fatal. Of the remaining 13 who were alleged to be vaccinated there was no evidence of successful vaccination and 2 of them proved fatal.

It may also be mentioned that among the 13 successfully vaccinated none were re-vaccinated and all these were in the age groups above 10 years.

Bacteriological examinations were done by the King Institute, Guindy.

Final year Medical students and Health Officer's class students of the Madras Medical College continued to attend the Hospital for clinical instructions in Infectious Diseases.

REPORT ON THE WORKING OF THE KRISHNAMPET ISOLATION HOSPITAL, FOR THE YEAR 1931.

- 1. Staff:—The permanent staff of the hospital consists of one Medical Officer, Two Nurses, One compounder, two male and two female ward attendants, one peon and one motor ambulance car driver.
- 2. Statistics:—The total number of admissions excluding contacts during the year was 482, of whom 88 died. The largest number of admissions were for cholera, being 183 of which 39 were admitted moribund especially those that were sent from distant places outside the city limits. Except a few, all the cases of the above infection, were in a condition of collapse on admission and required on an average from two to three saline transfusions. The total mortality rate for the year is 15.88 per cent. as compared with 10.09 of the previous year, the increase being the result of continued admissions for cholera during the first six months of the year.

The daily average number of patients was 13 as compared with 26.58 for 1930.

3. Vaccinal Condition:—34 small-pox cases were treated during the year with one death in an adult with primary vaccination but with no re-vaccination. The largest number of attacks was in the vaccinated group being 19, and in the non-vaccinated group being only 6. The anomaly is only apparent, as the relative proportion between the protected and unprotected individuals in a community with compulsory primary vaccination has to be considered in assessing the value of vaccination against Small-pox.

Again in the vaccinated group none of the patients was below 9 years of age, being only another example of the phenomenon, that small-pox has in modern times become a disease of adults in communities where there is primary vaccination, but no compulsory re-vaccination every 7 to 10 years, while in unprotected aggregates of humanity, it is a disease of infancy and childhood.

- 4. Accommodation:—There are six wards fitted with electric installtion. The two male and female wards are in addition provided with fans.
- 5. Ambulance:—The hospital is fitted with telephone connections and one ambulance car is premanently stationed for conveying cases of infectious disease to the hospital at all hours of the day and night.

HEALTH PROPAGANDA, 1931.

The education of the citizens especially the masses on subjects relating to personal hygiene and public health continued to engage the attention of this department throughout the year. This was done by means of lectures, demonstrations with the aid of magic lanterns, cinema shows and exhibitions. The work was carried on daily according to a regular and systematic programme drawn up beforehand and advertised in the local newspapers. During the year, 1719 open air lectures, 1702 talks, 1046 demonstrations with the aid of magic lanterns, and 74 cinema shows were conducted to a total audience of about 205811.

In addition to the above, the City Health and Baby Week organised under the joint auspices of the Corporation of Madras and the National Health Association of Southern India was celebrated on a grand scale at the S.I.A.A. Grounds for a week from the 13th January 1931, and a report of the same is given hereunder. There were further three divisional Health Exhibitions conducted during the year, one in Teynampet, Royapettah Division for three days from 27th July 1931, another at Tiruveteeswaranpet for 3 days from 26th September 1931 and the third in Triplicane for 4 days from 16th October 1931. In all these, special arrangements were made for ladies and one day or afternoon was set apart exclusively for ladies according to the localities.

City Health and Baby Week Celebrations 1931.

The eighth Health and Baby Week was celebrated at the S. I. A.A. Grounds for a week commencing from Tuesday the 13th January 1931. It was organised under the joint auspices of the Corporation of Madras and the National Health Association of Southern India, the Health Officer being the Joint Honorary Secretary. The Health Week though an annual function is not a detached one but is the climax of the series of the activities of this department in the matter of bringing home to the minds of citizens facts concerning the Public health and maternity welfare. The celebrations this year while focusing the attention of the people to all matters relating to the health and welfare had the co-operation of all institutions working for similar ends.

With the necessary funds sanctioned by the Council and the co-operation of the National Health Association and the Government departments, the Health Exhibition of 1931 was organised on a very grand scale and the activities were more numerous than those of the previous years. In view of the experience gained in the past years considerable attention was devoted to present before the public at large in as exhaustive a manner as possible the ways and means by which the public can preserve health and look to the maternity welfare.

As in the last year, a Directory was printed in connection with the Health and Baby week. A message of felicitation was received from Her Excellency Lady Beatrix Stanley whose sympathy in this direction is wellknown and affords a great encouragement to those engaged in this work. The Directory furnishes particulars about the various activities of the Corporation and photographic illustrations of important features. It contains also the programme of the events of the week and the different items of competition, names of the exhibitors at the grounds, description of the exhibits by the Corporation under the various sections, special articles on health and allied subjects by experts for the benefit of the educated classes and other matters of interest are also included in it and copies were issued to the public free of cost. Besides this, handbills on health subjects were distributed.

In addition to the articles in the press published from time to time about the health week and the exhibition, their importance, their place in the health and well-being of the people, handbills in English and Vernacular were distributed. The exhibition was well advertised to the public by means of hand bills and wall posters in English and Tamil. The response from the public was very satisfactory. The gathering at the exhibition during the week

was thoroughly representative. The exhibits were so arranged as to bring out in a practical manner the existing state of affairs in the matter of public health and the need for educating the public in this behalf.

During the exhibition week the spacious grounds of the S.I.A.A. Ltd., placed at our disposal were well decorated with flags, festoons, buntings and banners. Stalls were arranged in a quadrangle north of the Moore Pavillion with the entrance just to the east of the same. A few tents kindly lent by the Military Secretary to H. E. the Governor of Madras were also pitched on the site of the main grounds. On the western side a big shamiana was put up with a dais to receive Their Excellencies and to provide accommodation for lectures in the evening. Special accommodation was also provided for cinema shows and demonstrations with the aid of magic lanterns on health subjects. Radio music was also arranged for the entertainment of the public after the evening lectures. In the centre of the main grounds the Educational Department put up a stage whereon the pupils of the Corporation schools took part in staging select scenes.

The illumination of the grounds was as usual in the charge of the Electrical Engineer who spared no pains to make it the characteristic feature that it used to be. Several commercial firms applied for stalls in the grounds to exhibit their goods and they were provided with the same on payment of rents for the space occupied by them which was a departure from the routine procedure this year.

As regards the exhibits of this department a number of charts were prepared under the supervision and as per instructions from the Health Officer and the old ones repaired and repainted. They were all arranged in the specially decorated stalls. The exhibition of these charts serves admirably as the best method of instruction of the principles of sanitation, hygienic living, and elimination of causes that lead to disease, spread of infection and premature deaths.

In addition to the above arrangements, the staff of this department medical and sanitary and the Child Welfare staff were posted by turns in stalls to explain the charts, models exhibits etc., to the visitors in English and vernaculars.

A brief description of the stalls and exhibits is given below:

Maternity and Child Welfare Section.

Out-Patient Clinics:—for expectant and nursing mothers, puerperal cases and children under 10 years of age.

Ante-natal clinics-for pregnant woman.

The baby stall.

Clean midwifery as contrasted with the barber midwifery.

Public Health.

Intestinal parasites-actual specimen of round worm, hook worm, tape worm, thread worm, whip worm, etc., Pictures showing various stages of small-pox, chicken-pox, measles and the progress of a case of vaccination.

Diseases carrying insects-Mosquitoes conveying Malaria, Filaria, Yellow Fever, Dengue etc.

Fleas-Rat and human. Lice, Bugs. Flies.

Dwellings:—Models of good and bad dwelling houses showing arrangements for lighting, ventilation and drainage.

Latrines:-Various types of latrines, sanded, masonry, flush-out, combined with septic tank system etc.

Refuse disposal:-Rubbish cart, nightsoil cart, rubbish bins, hand cart, incinerators, pail depots, sewage farms, conservancy depots etc.

> Cow houses, Dairy Farm-Veterinary Hospitals. Markets: - Different kinds.

Sweetmeat stalls, coffee hotels, bake houses hopper hazaar etc., good and bad types-hospitals and centres. Model showing the newly constructed hospital at Tondiarpet. A. Municipal Health Centre showing the activities of the Health Department.

> General Sanitation—Knights models. Disinfection-Practical disinfection and disinfectants. Sanitary fittings--latest types, crematoriums-open, covered etc.

Poster Section.

Air, Ventilation-Natural and Artificial.

Water-Source, Storage, distribution, impurities, means of pollution etc. Food-Nature and use of food stuffs-

Soil sites and buildings-Dwelling houses Sanitary-insanitary.

Disposal of refuse and excreta.

Dental Hygiene. School Hygiene.

Intection and disinfection-Cholera, Small-pox, Malaria, Vaccination.

Tuberculosis. Vital Statistics. Temperance.

Madras Water Works:-Dealing with the Engineering and analytical aspects-plans and models.

Electrical section-Model of a traffic controller, lethal chamber, loud speaking equipment, electric fountains etc.,

Educational Department:-exhibits, charts etc.

The undermentioned Government Departments took part in the exhibition and exhibited their propaganda materials:-

- The Director of Public Health.
 The King Institute, Guindy.
 The Director, Town planning.

- 4. Government General Hospital-Venereal Department and X-ray department.
 - 5. Civil Veterinary department.
 - 6. Department of Fisheries.
 - 7. Department of Agriculture-
 - 8. Sanitary Engineering Department.

As stated at the outset, the Health and Baby Week commenced on 13-1-31. The opening day witnessed the marching of the boys and girls of the Corporation Schools to the Exhibition grounds. A very large gathering of spectators and distinguished ladies and gentlemen assembled before the hour fixed for opening. Exactly at 4-30 p. m. Their Excellencies Sir George Frederick Stanley and Lady Beatrix Stanley arrived in the grounds. The President, Corporation of Madras and the Commissioner received Their Excellencies who inspected the guard of honour furnished by the boy scouts and girl guides and were then led to the decorated rostrum. The president Rao Bahadur P. T. Kumaraswamy Chettyar in a short speech tracing the origin

of the Health Week Celebrations invited His Excellency to open the Exhibition. His Excellency then in a very elegant speech stressing the importance of such celebrations declared the exhibition open. Major-General C. A. Sprawson the Surgeon-General with the Government of Madras thanked Their Excellencies for having consented to perform the opening ceremony amidst their multifarious engagements. Then the distinguished visitors went round in the exhibition grounds and inspected all the charts, models and exhibits.

There were physical exercise demonstrations, cinema shows and lectures on health subjects with the aid of magic lanterns by the staff of Health Department.

The function of the second day was presided over by the Hon'ble Dewan Bahadur B. Munuswamy Naidu Garu, Chief Minister and Mr. T. P. Meenakshisundaram Mudaliar delivered a lecture in Tamil on "Your part in the promotion of general health". Ambulance display and competition were included in the programme and the Chief Minister distributed prizes to the winners in the competitions. This was followed by cinema shows and magic lantern lectures.

The Surgeon-General with the Government of Madras was the President on the third day, when Rao Bahadur Dr. A. Lakshmanaswamy Mudaliar, M. D., delivered an instructive lecture on "Infant Welfare". Then the cinema and lantern shows conducted at 6-30 P. M. concluded the activities of the day.

The 4th day of the week was presided over by Mrs. Conran Smith. The first item in the programme was the Baby competition which lasted from 8 to 11 a.m. After 11 a.m. commenced the feeding of the poor, one of the items specially arranged for the benefit of the ladies and poor women who brought their babies and children for competition. The poor feeding was conducted free by the Proprietor of the Arya Bhavan who played the host to the poor mothers. In the evening at 5 the President distributed prizes to the winners in the competition which was followed by cinema shows and lantern demonstrations.

The 5th day's function was presided over by Rao Bahadur Dr. C Natesa Mudaliar. As per programme the various exhibits were inspected by the Judges in the morning (7-20 to 9-30 a.m.). The Boy Scouts gave a fine display in the evening. The President then distributed prizes to the winners in the various items of the day. As usual there were cinema and lantern shows thereafter.

The 6th day (Gosha day) was specially set apart for ladies. Several prominent ladies were pleased to grace the occasion with their presence. Their hearty co-operation and interest in the activities of the day made it the success that it was. There were cinema and lantern shows in the evening.

The last day in the week was presided over by Her Excellency Lady Beatrix Stanley. There was physical exercise demonstration at 5 P.M. immediately after the arrival of Her Excellency. Her Excellency then distributed prizes to the winners in the competitions. This was followed by an expression of greatful thanks to Her Excellency. Cinema shows and magic lantern demonstrations were then conducted.

The Health and Baby Week opened by Their Excellencies on 13-1-31 came to a close on the night of Monday the 19th January 1931. Their willingness to perform the opening ceremony and their presence on the occasion were a source of encouragement to all the workers and the success of the show was due in no small measure to the inspiration drawn from them and their interest in the welfare work of this presidency under their charge. Thanks are also due to the various gentlemen who presided over the functions of the week and delivered lectures on interesting subjects of Public Health, to the Military Secretary to the Government, the Commissioner of Police, the Heads of Government Departments who took part in the Exhibition by exhibiting the activities of their departments, the Boy Scouts, the Executive Engineer, North Presidency division and others for all the help rendered by them to make the function a complete success. Thanks are also due to the Officers and officials of Corporation who

worked hard to make the Health and Baby Week the success that it has been. Once again, I record here my appreciation of the services rendered by them.

AIDED INSTITUTIONS.

A brief summary of the Public Health work done by various institutions based on their annual reports (This is incorporated in accordance with the G. O. No. 653 P. H. Mis dated 10-6-1921).

The Arya Vysia Ayurvedic Children's Free Hospital.—This institution situated in Vepery is rendering medical aid free of charge to children only. The total number of patients treated during 1931 is 10,718.

The Buckingham & Carnatic Mills Welfare Committee.—This Committee which has completed a decade of its existence carried on, during 1931, its social welfare activities. Instead of organising the usual Health week, a campaign of sustained health propaganda was conducted during the year. A series of cinema demonstrations and magic lantern lectures on health subjects were given by the National Health Association of Southern India for the benefit of the workmen. The village Dispensary afforded medical help to the workmen and grew more popular with them.

The Chengalvaraya Naicker's Free Ayurvedic Dispensary.—This Dispensary continued to render free medical aid and 1,98,539 patients were treated during 1931 as against 1,86,331 for the previous year.

The Chennapuri Annadana Samajam.—The main public activity of this Samajam is to feed the poor and provide them with clothing as far as funds permit. During the year 1930-31, the number of poor fed was 59,452.

The Friend-in-Need Society:—The object of this Society is to relieve deserving poor and to suppress mendicity amongst the European and Anglo-Indian Christians. During 1931 there were 1992 individuals and 268 families representing 670 persons who applied for help.

The Government Victoria: Caste and Gosha Hospital.—The number of maternity cases treated in this hospital during 1931 was 2095 as against 1715 for the previous year. A new Ante-Natal ward and Children's Ward were opened this year.

Women Sub-Assistant Surgeons and Lady Apothecaries in Government in the moffusil and midwives from local bodies were sent for refreshed courses to this hospital.

The Kalyani Hospital:—The total number of patients treated in this hospital and its two dispensaries was 16,305 of whom 1935 were in-door and 14,370 out-door patients. The number of maternity cases was 663 as against 649 in 1930.

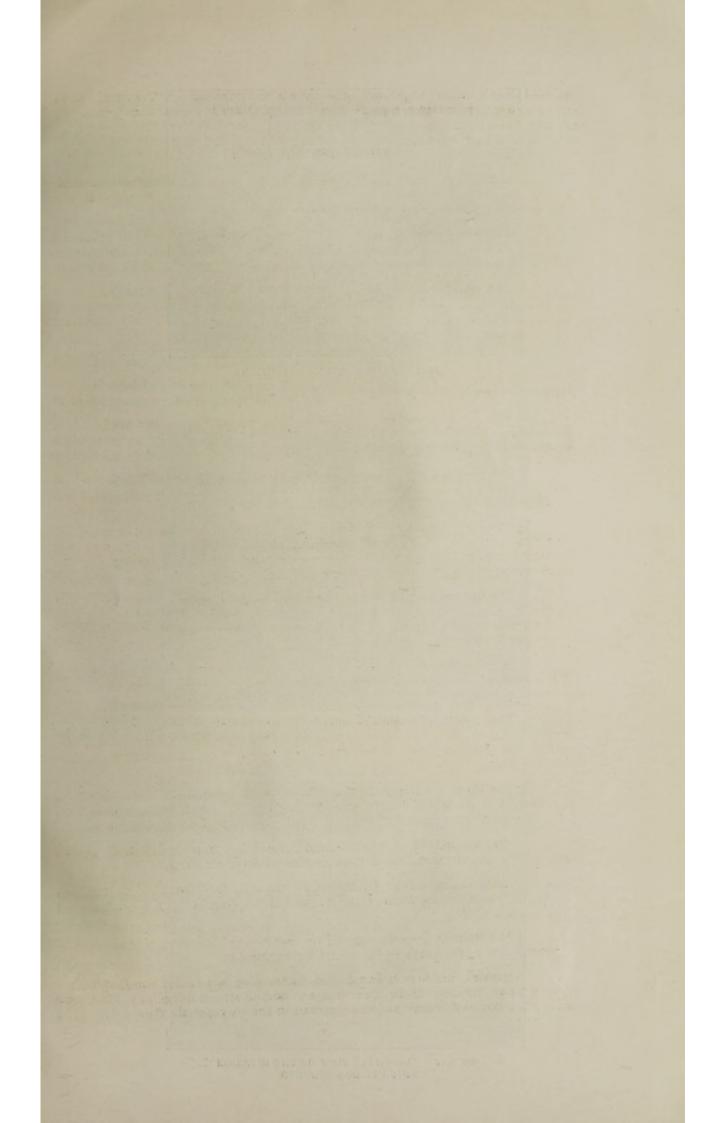
The Madras Society for the Protection of Children.—This institution has completed its twenty-fourth year of its existence. On 1-1-1931 there were 65 boys and 25 girls; and 34 boys and 5 girls were admitted during the year.

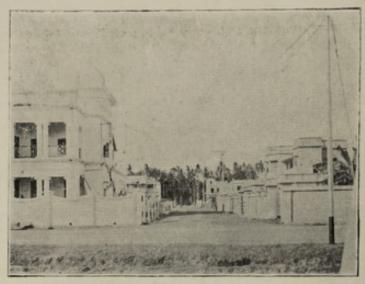
Magic Lantern Lectures were given on several occasions to the inmates by the National Health Association of Southern India.

Medical inspection of the boys was done by a qualified doctor from the Government Royapuram Hospital and of the girls by a Lady Doctor from the Rainy Hospital.

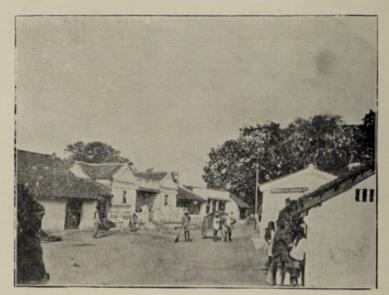
The Madras Seva Sadan:—This institution for women has come to occupy a prominent place in the social life of this city.

Besides literary training and instruction in arts and handicrafts, the girls are also trained to become nurses, mid-wives and teachers. For this purpose, a training course has been opened in the Royapettah Hospital.

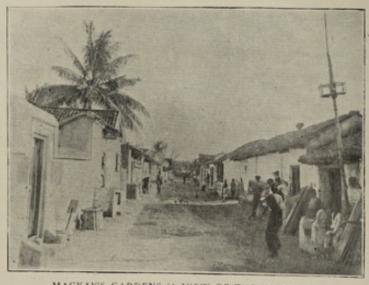




GOPALAPURAM (EASTERN EXTENSION)



MACKAY'S GARDENS (AFTER IMPROVEMENTS)



MACKAY'S GARDENS (A VIEW OF THE INTERIOR AFTER IT WAS SEWERED)

The Raja Sir Ramaswamy Mudaliar's Lying-in-hospital.—In this hospital the total number of deliveries attended to during 1931 was 2361, of which 487 were complicated labour cases. 1109 patients were admitted for ante and post-natal treatment. The total number of out-patients treated was 11,576. 25 pupils were granted diplomas as mid-wives. 93 final year students of the Royapuram Medical School underwent clinical training.

The Ramakrishna Mission Students Home.—This institution for poor and deserving boys had a strength of 134 at the end of 1930 and 138 at the end of 1931. It has a medical ward for the inmates with a doctor in daily attendance. The annual medical examination of the boys was conducted according to the scheme laid down by the Government.

The Ramakrishna Math Charltable Dispensary.—The total number of patients treated in this dispensary during 1931 was 58, 905 as against 54, 567 for 1930.

The San Thome Dispensary:—The total number of patients treated in this dispensary during 1931 was 12, 975 as against 12,717 for 1930.

The San Thome Convent Dispensary:—The number of patients treated in this dispensary during 1931 was 32,025.

Sri Kanyaka Parameswari Devasthanam Dispensary.—The total number of patients treated in this dispensary during 1931 was 75,319as against 60, 649 for 1930.

The Unani-Dar-Ush-Shifa:—The total number of patients treated in this Unani Dispensary during 1931 was 1,30,489 as against 1,25,015 for 1930.

CONSERVANCY.

Mr. W. L. Edwards, the Drainage Superintendent continued to be in charge of conservancy work during the year under report, assisted by the two Supervisors. The Veterinary Officer lent by the Government also continued in office during the year. There were 2313 men, 185 women and 114 boys employed in the cleaning of streets and drains with 160 peons to supervise their work.

550 bullock drawn carts and 38 Motor lorries were maintained during the year for the removal of rubbish and filth in the City.

Animals:—There was a heavy shortage of bullocks in the Conservancy Depots and the Council at its meeting held on 15-5-31 sanctioned the grant of Rs. 20,000 for the purchase of bullocks.

Live stock in 1930 and 1931.

	1930	1931
No. of animals at the commencement of the year	 805	644
No. of animals purchased during the year	 40	161
No. of animals that died during the year	 201	117
No. of animals remaining at the end of the year	 644	688

There was a reduction in mortality among the animals. Of the 688 animals remaining at the end of the year, 5 were condemned and maintained at the Sewage Farm, Tondiarpet. All the animals except a few kept at the F. Depot were protected against Rinderpest.

There was no outbreak of Rinderpest or Anthrax during the year. There were two casualties due to Trypnosomiasis and 11 to Piroplosmiasis.

There was a severe outbreak of Foot and Mouth Disease and all the depots were affected by it. By segregation and timely treatment the virulence of the disease was aborted and controlled in a short time.

There were 15 casualties due to Tuberculosis and they were among animals previously tested for the disease.

The Veterinary Hospital could not be opened for want of additional improvements which were found necessary and for which a supplemental grant was applied for. An ambulance cart for the transport of sick bullocks was manufactured during the year.

The system of feeding the animals was revised during the year-Galvanised zinc buckets were introduced in the place of wicker baskets for feeding.

Motor Lorries:—During the year under report there were 38 motor vehicles in use for the removal of rubbish and filth. Two Federal Trucks purchased by the Works Department in connection with Bogipalayam Scheme were transferred to the Health Department. 3 Studebaker and 4 Willys Trucks were purchased and 4 old lorries were condemned and sold in auction. The Council also sanctioned the purchase of a motor lorry for the prompt clearance of sewage from cesspools in unsewered areas.

Tipping Platforms.—The two model tipping platforms constructed at Basin Bridge Depot and Langs Garden Pumping Station continued to serve very satisfactorily. The platform at Triplicane was also used during the year for the temporary deposit of rubbish.

Disposal of rubbish:—About 4,51,485cartloads of rubbish were removed from the City against 4,29,964 cart loads in the previous year. 1,20,198 cartloads were disposed of at the Incinerators by separation and incineration. 69,436 cartloads of rubbish were used in reclamation works. The balance was removed to the dumping grounds at Korukkupet, Otery, Rifle Range, Mylapore and Salt Cottaurs Railway land. Work at the Krishnampet Incinerator was stopped during November and December of the year for repairs.

Disposal of filth:—During the year under report about 1,22,680 cartloads of filth were removed from the City, of which 94803 cartloads were flushed into sewers at the Pail Depots at DeMellows Road, Langs Garden and Ice House Road. The balance was trenched at the Korukkupet and Ottery Night soil Depots.

Public Latrines:—144 flush-out, 41 masonry and 24 sanded latrines were maintained during the year. A list of new latrines constructed and old latrines converted is furnished in the appendix (page 111).

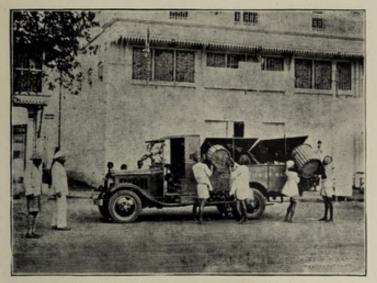
Festivals:—As usual, special arrangements were made for efficient cleaning and disinfection during all the important festivals in the City. The conservancy of the S. I. A. A. Grounds was attended to departmentally during the Park Fair (1931-32) on payment of fees.

Private Scavenging:—A sum of Rs. 23,680-10-8 was derived as charges for conservancy services rendered to private institutions under section 197 of the Act. In view of the scheme of flush-out latrines which is in progress the problem of scavenging of private dry latrines in the City has been kept in abeyance.

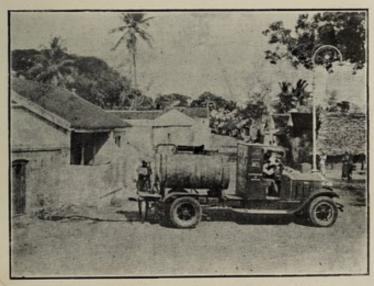
Nuisance:—Much of the untidiness of the streets of Madras is due to the committal of nuisance by the public. In spite of the rapidly developing civic conscience of the citizens the evil practice continues.

Police prosecutions which are put up mostly at the instance of the Corporation tend to abate the nuisance for a short time. Unless the Corporation sanitary staff is given police powers there seems to be no hope of improvement in this direction. Public latrines and urinals are being constructed wherever suitable sites are available.

Disinfection:—528 gallons of Hycol, 153 gallons of Phenyle and 2690 parahs of chunam were used for the disinfection of drains, street corners and dustbins and nightsoil buckets.



REMOVAL OF RUBBISH BY MOTOR LORRY



REMOVAL OF CESS POOL CONTENTS BY MOTOR VAN

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MAY SOTOM VE SEASAY SERVINE SUT SO CAMBUSE

A VIEW OF THE RECEMBATION OF LOWEAND AT CHOOLAS



FLUSHING OF THE WATER-TABLES BY MOTOR VAN



A VIEW OF THE RECLAMATION OF LOWLAND AT CHOOLAI

Labour:--For some time past the conservancy coolies had been agitating for increase of wages. The wages were last increased in 1927. During the year the agitation became stronger and on 27-7-31 they struck work. Though the main issue was increase of wages, there were other grievances also in the matter of housing, sale of rice, hours of work, and reinstatement of some of the dismissed scavengers. The strike was terminated on the afternoon of 28-7-31.

The Council appointed a Committee to go into the question of wages and other grievances, as a result of which a time scale of wages was fixed and approved by the Council at its meeting held on 1-9-31. The Commissioner enquired into the cases of dismissed employees and reinstated some of them.

As regards the sale of rice, it was decided by the Council that the coolies who did not want rice should be given the option of taking advance wages of Rs. 2 per fortnight in lieu of rice.

301 conservancy coolies are occupying houses in Corporation Model Lines and 159 live in huts on Corporation land. A portion of the old Tipping Platform at A Depot was laid out for erecting about 40 huts with a view to relieve the congestion at Tondiarpet Hutting Ground. The acquisition of land in Pudupet Hutting Ground was completed during the year.

Some of the scavengers hutting grounds are very much congested.

More Model Lines have to be constructed as soon as funds permit.

General:—The Council sanctioned the grant of Rs. 7000 for laying roads in the Otery Dumping Ground. The Council also sanctioned the acquisition of land to extend the dumping ground and has provided Rs. 25,000 in the budget for 1932-33.

The efficiency of conservancy work during the year is evidenced by the absence of flies and epidemic diseases in the city. Slum areas in the city received special attention. New colonies have sprung up in different parts requiring increase of carts and lorries. The night conservancy by motor lorries in Nungambakkam, Triplicane and Kothawal Bazaar areas was continued during the year. 616 dustbins and 450 nightsoil buckets were manufactured during the year.

The total expenditure on account of conservancy for the financial year 1931-32 was Rs. 8,91,749 (Rs. 66505 Capital and Rs. 8,25,244 ordinary) against Rs. 9,49,730 for 1930-31 (Rs. 69,185 capital and Rs. 8,80,545 ordinary). The amount spent on wages of conservancy coolies was Rs. 4,92,603 against Rs. 4,89,589 for 1930-31.

A sum of Rs. 10,000 was derived as income by the sale of manure from Korukkupet and Ottery Nightsoil Depots in 1931-32.

ANTI-MALARIAL WORK FOR THE YEAR 1931.

A Senior Sanitary Inspector was in charge of the entire operations working directly under the Assistant Health Officers. He was assisted by one Sanitary Inspector exclusively in charge of 3 & 4 divisions, where, as many as 210 tanks exist and by 2 Supervisors, one for the North Range and the other for the South Range, with 3 gangs of nine coolies each for each range for cleaning, oiling the tanks, ponds, wells and drains and introducing larvacidal fish into wells and tanks. A Motor Lorry was engaged with 12 coolies for reclamation work. The Senior Sanitary Inspector under-went training at Karnal during the year at the Ross Field Experimental Station for Malariology.

The chief breeding grounds for mosquito larvae were surveyed and prompt action was taken to destroy the larvae by cleaning and oiling the tanks, ponds, wells and drains. Large storm-water drains such as Kelly's drain, drains in Anna Pillai Street, Audiappa Naick Street, Thatha Muthyappan

Street, Parish Venkatachala Iyer Street, Chima Bazaar Road, Mint Street, Wall Tax Road, Triplicane High Road, Peters Road, etc., were fumigated and oiled periodically.

Anti-Malarial Measures Adopted.

- 1. Cleaning of tanks, ponds, and wells.
- 2. Petrolising.
- 3. Clearing of rank vegetation.
- 4. Introduction of larvacidal fish into wells and tanks.
- 5. Reclamation.

Tanks and Ponds:—Generally tanks and ponds which are not used for purposes of irrigation and are mostly shallow, covered with moss, and horizontal growth of weeds become breeding places for anopheline larvae. There are at present 502 tanks in the city and these were inspected constantly by the sanitary staff and action taken wherever necessary. Tank registers for each division are maintained and entries are made by the Supervising Officers. Divisional Sanitary Inspectors inspect them frequently, and enter the results of inspection in the registers and the number of times the tanks are cleaned.

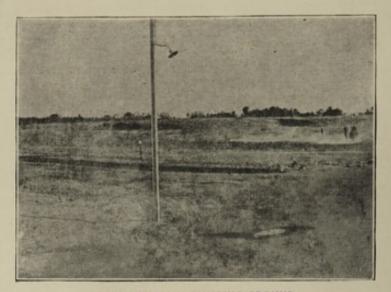
Owners of 147 tanks paid the estimated cost for cleaning and oiling their tanks during the year to the Corporation and work was done departmentally. The total amount collected from the owners of these tanks during the year was Rs. 1,746-8-2. A statement showing the names of the tanks with the owners, and the amounts paid with challan numbers is attached for information—(Vide statement B on pages 113 and 114).

Petrolising:—The only satisfactory and economical method for the destruction of mosquito larvae, and pupae of both Anopheles and Culex is by petrolising frequently. A dilution of liquid fuel with kerosene oil was sprayed by knapsack sprays on to the surface of stagnant waters to form a film to cut air supply to the mosquito larvae. Generally after monsoons a large number of temporary puddles and pools formed and became breeding grounds for mosquito larvae. Petrolising was then conducted on a large scale by the division staff with good results. As it is not possible to reclaim such lowlands at present, the only remedy is to keep them free from mosquito larvae by systematically petrolising them,

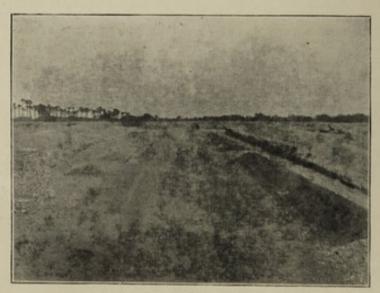
Some of the chief localities where such pools and puddles were petrolised systematically are given below:—

- 1. Royapuram near Railway Bridge and some low lands in S. N. Chetty Street, 1st & 2nd Divisions.
- 2. Kathiwalkam High Road and Tondiarpet where there are a number of lowlands on either side.
- 3. Cochrane Basin and Anti-Malarial drain close to Washermanpet Burial Ground, 4th Division.
- 4. Ottery Nulla, including Anti-Malarial drain in DeCosta Road, DeMellows Road and Powder Mills Road. A separate gang of coolies were attending to this drain, 16th Division.
 - 5. Errukancherry Road and the lake in Vyasarpady, 16th Division-
 - 6. Modavakkam Tank, 21st Division.
- 7. Marshy lowland behind Government Record Office in Male Asylum Road, 20th Division.
 - 8. Spur Tank, 20th Division.
 - 9. Storm-water drain in Royapettah, 29th Division.
 - 10. Ditch drain in Gopalapuram, 29th Division.
 - 11. Ditch drain near Admiralty House, 29th Division.
 - 12. Lowland south of Mylapore from Rifle Range to Adyar.
 - 13. Portion of the Cooum and Buckingham Canal.
 - 14. All cesspools and drains in the city.





OTERY RUBBISH DUMPING GROUND (FRONT VIEW AFTER IMPROVEMENTS)



OTERY RUBBISH DUMPING GROUND (INTERIOR AFTER IMPROVEMENTS)

It is necessary to mention in this connection that petrolising was found effective in destroying the mosquito larvae in places, where water was found unused and stagnating. In the case of the tanks, ponds and wells which are constantly in use, petrolising was objected to, because of its deleterious effect on the vegetable growth. In such cases periodical cleaning and introduction of larvacidal fish were resorted to. Mere petrolising and stocking with fish are not enough to keep off the mosquito larvae so long as the tanks contain moss, weeds etc. which afford shelter to the larvae.

Rank Vegetation and Bush Cutting.

Generally rank vegetation is found close to tanks, ponds, and marshy places affording comfortable lurking places for adult mosquitoes, which breed in the stagnant waters closeby. In private places the clearing of rank vegetation is primarily the work of the house owners or tenants. Sanitary Inspectors were instructed to issue notices to the owners to remove such vegetation wherever found. A considerable quantity of it was thereby removed by the owners. The anti-malarial staff cleared about 5,78,399 sq. ft. of rank vegetation from the following places:-

- 1. S. N. Chetty Street, 2nd Division.
- Mohamedan Burial Ground, 2nd Division.
 Beggar Home, 2nd Division.
- 4. Infectious Diseases Hospital, 4th Division.
- 5. Hindu Burial Ground, Washermanpet, 4th Division-
- Sides of the Anti-Malarial Channel, 4th Division.
 Choolai Burning Ground, DeMellows Road, 16th Division.
- 8. Taylors Road, 21st Division.
- 9. Greams Lane, Haddows Road, 7 Anderson Road, 22nd Division.

Introduction of Larvacidal Fish.—All the domestic and public wells in the city were stocked with larvacidal fish-Before the introduction of fish these wells were cleaned. Weeds and other floating matter were removed in order to give free scope for fish to feed on the larvae.

As many as 11,097 wells were stocked with larvacidal fish; every well so treated was carefully watched from time to time to see that the fish introduced continued to live and thrive. This was repeated systematically introducing fish wherever necessary. In places where wells were found unused, the owners were notified to cover and make them air-tight or to fill them up completely. There are various specimens of fish found to be of considerable utility in destroying mosquito larvae. At present we are using "Haplochilus Melanostigma", Chela and Minno. (In tamil "Munda Cunno, Namakannoo, and Kulla Kande).

The re-survey of wells stocked with fish during the year 1931 disclosed as follows :-

> Number of wells examined ... 11,097 Number in which fish introduced were alive 7,116 Number in which fish introduced perished 3,981.

Reclamation Work .- The best and the most successful method of stopping the mosquito nuisance is to fill up the lowlands where water stagnates and also to fill up the unused wells, tanks and ponds where mosquito larvae breed.

As mentioned in previous reports serious opposition was noticed against the filling up of unused wells. 518 such wells were cleaned and closed air-tight.

Reclamation work was done at Rifle Range, Hope Lodge, Choolai Burial Ground and Zoological Gardens.

Statement (A) shows the notices and prosecutions under section 264 (1) regarding tanks and wells—(Vide page on 112.)

General.

In addition to the action taken with regards to the tanks, ponds, wells and shallow waters as above-mentiond, attention had to be paid to the thousands of breeding places caused by the carelessness of the citizens, namely, cisterns used in building constructions, leakages from reservoirs, vessels used in dyeing yards in which water stagnated and paddy soaking cisterns etc. A systematic campaign was conducted to destroy the larvae in these places and to minimise the mosquito nuisance as far as possible.

MEDICAL INSPECTION OF CORPORATION SCHOOLS FOR THE YEAR 1931-32.

Staff:—There has been no change in the personnel of the staff during the year under report.

Findings of Medical Inspection:—A larger number of school children was examined during the year under report than in the previous year. 17821 boys out of 19936 on he rolls and 10180 girls out of 12433 on the rolls were examined. This works to a percentage of 89.39 among boys and 81.88 among girls, while the corresponding percentages for the previous year were 87.77 and 76.57 respectively. The average attendance of children during the time of inspections was 16266 in boys and 9390 in girls.

10540 boys or 59.14% and 5966 girls or 28.61% were found to be defective in health requiring treatment, the percentages for the previous year being 62.20 in the case of boys and 68.63 in the case of girls. There has been a decline in the percentages of defectives over the previous year, indicating general improvement in the health of children. A definite reduction is noticed under most of the important headings especially under mal-nutrition, teeth and mouth, personal hygiene of the children, eye diseases, ear diseases, circulatory system and abdominal organs. An increase has been noted under the items, nose and throat and respiratory diseases, which are common among children especially of the poorer classes who are easily affected by seasonal variations. The increase noted under 'The Infectious Diseases' in boys is mainly due to increased prevalence of scabies which is often marked in certain seasons.

Cleanliness, condition of the skin of the scalp, body and nails:—2466 boys (13.28 per cent) and 1125 girls (11.05 per cent) were found to be dirty in their person and clothing as against 17.25 per cent and 15.47 per cent respectively in 1930-31—a reduction over the previous year. Most of these children came from the poorer classes and were unable to equip themselves with sufficient and clean clothing. Dirty children were advised baths in the school premises daily to habituate themselves in the methods of healthy living. Children who had vermin in the head were advised shaving their heads or combing their hairs daily after an application of kerosine and vinegar emulsion. Steps were taken to isolate these.

Malnutrition:—3761 boys (21·10 per cent) and 415 girls (4·08 per cent) were found to be undernourished, the percentages for previous year being 22·22 and 8·43 respectively. Parents who could afford were advised to purchase Cod liver Oil and other tonics, while in other cases the children were directed to attend Corporation dispensaries. Very many of the former purchased and administered Cod liver Oil to their children.

Teeth and Mouth:—3090 boys (17.34 per cent) and 2199 girls (21.60 per cent) were suffering from oral and dental complaints as compared with 21.59 per cent and 24.89 per cent respectively in the preceding year. The chief defects found were decayed teeth and ulceration of the mouth and tongue, the causes for which have been amply explained in the previous reports.

Defects.	Boys.	Girls.
Dirty teeth	 803	637
Dental caries	 861	1210
Stomatitis	 1639	
Tongue tie		416
	 10	3
Oral sepsis	 31	15
Harelip and cleft palate	 2	1
Other conditions	 3	2

The parents and the school staff were advised about the importance of clean teeth for maintaining sound health. Cases with extensive decay were advised removal of the offending teeth, while in milder cases filling of the cavities was advised. Stomatitis was found mainly among under-nourished and rickety children. All these children were given relief at the Corporation dispensaries.

Nose and Throat—4353 boys (24·43 per cent.) and 1749 girls (17·18 per cent.) had nasal and throat complaints as against 24·23 per cent. among boys and 16·86 among girls in the previous year, the slight increase being due to the larger prevalence of respiratory diseases which are always associated with these.

Defects.	В	oys.	Girls.
(a) Nose.	4		
Nasal Catarrh		203	331
Nasal Polypus		5	4
(b) Throat.			
Enlarged Tonsils		3,735	1,351
Enlarged cervical glands		1008	43
Adenoids		54	4
Granular Pharynx		44	12
Bifid and Elongated Uvula		29	50
Other conditions		5	-

Enlarged Tonsils and glands of the neck formed by far the bulk of the defects found in school children. These were largely due to dental caries, stomatitis and oral sepsis. Generally these extra growths of glands tend to disappear as age advances though they leave behind bad effects on the general health of the children. In all these cases the School Medical Officers aimed at improving the general nutritional state in addition to local treatment. Where the enlargement of the tonsils was large and associated with other complications, operative treatment was suggested. The parents were seen and advised in such cases and the teachers instructed to persuade them to carry out the advice.

Eye diseases:—531 boys (2.98 per cent) and 278 girls (2.73 per cent) had diseases of the eye as against 3.20 per cent and 3.77 per cent respectively in the previous year, recording a decrease of 0.22 per cent and 1.04 per cent.

Defects.	Boys.	Girls.
Conjunctivitis	 133	86
Blepharitis	 2	3
Granular lids	 71	58
Corneal opacity	 66	18
Corneal ulcer	 -	1
Staphyloma	 1	1
Dacryo-cystitis	 3	-
Cataract	 5	1
Xerosis	 139	59
Stye	 29	21
Squint	 76	22
Keratitis	 2	1
Ptosis	 10	-
Other conditions	 11	8

Minor complaints were advised treatment at the Corporation dispensaries, while others requiring the care of a specialist were referred to the Government Ophthalmic Hospital, Egmore. Most of the cases of squint were advised early correction for errors of refraction.

Vision:—230 boys (1.29 per cent.) and 21 girls (0.21 per cent.) had defects of vision as against 1.15 per cent. and 0.22 per cent. respectively in the previous year. In certain cases where the defects in vision were associated with malnutrition and rickets, cod liver oil and other tonics were advised, to improve

the general nutritional state as this had been found to bring the eyes to emmetropic condition. Others were advised correction of vision at the Government Ophthalmic Hospital.

Ear diseases:—272 boys (1.53 per cent.) and 239 girls (2.35 per cent.) had affections of the ear. There is a decline of 0.21 per cent. among boys and an increase of 0.77 among girls over the previous year. The percentages of defectives for the previous year were 1.73 and 1.58 respectively. Simple cases of discharging ears were treated at the Corporation dispensaries while chronic and resistant types were advised treatment by the specialist at the Government General Hospital.

Defects.	Boys.	Girls.
Otorrhoea	 239	156
Otitis	 29	86
Other ear diseases	 6	-

Hearing:—14 boys (0.08 per cent.) and 19 girls (0.19 per cent.) were short of hearing as against a percentage of 0.11 and 0.06 respectively in the previous year.

Speech:—95 boys (0.53 per cent) and 21 girls (0.21 per cent.) had defects of speech, mainly stammerers. The percentages of defectives for the previous year were 0.50 and 0.16 respectively.

	Defects.	Boys.	Girls.
1.	Stammering	 85	11
	Lisping	 9	6
3.	Dumb	 1	4

The teachers were advised to be sympathetic to such children. The condition of their general health was attended to.

Circulatory system: —221 boys (1.24 per cent.) and 61 girls (0.60 per cent.) were defective under this heading, the percentages for the previous year being 1.68 among boys and 1.30 among girls.

Defects.		Boys.	Girls.
Anaemia	111	110	40
Functional irregularities of heart		84	5
Organic diseases of heart		32	17

Suitable advice and treatment were suggested in all these cases. Some children requiring institutional treatment were advised to resort to hospitals. The parents of these children were seen and personally advised.

Tuberculosis:—Pulmonary and other forms of this disease were detected in 25 boys (0·14 per cent.) and 19 girls (0·19 per cent.) as against 0·14 per cent. and 0·34 per cent. respectively in the preceding year.

Defects.	Boys.	Girls.
Pulmonary Tuberculosis		O.C.
(a) Suspected	 16	10
(b) Definite	 1	3
Tubercular glands neck Other forms	 8	5
Other forms	 -	1

Among the conditions that favour the incidence of tuberculosis among school children the two dominant factors are, ill-ventilated and poor housing conditions and poor diet. Tuberculosis is a disease due to dirt and poverty and its greatest enemies are fresh air, sun-light and good food. Every opportunity was taken to explain to the parents and teachers by means of talks and lectures the root cause of the disease and the methods of its spread and prevention among children. Special stress was made on the importance of early treatment.

All these children were directed to attend the Government Tuberculosis Institute.

Respiratory diseases:—735 boys (4.12 per cent.) and 492 girls (4.83 per cent.) were having respiratory affections as against a percentage of 2.80 and 3.43 respectively in 1930-31, the increase being mainly due to Bronchitis, a condition that children especially ill-nourished are prone to suffer from during seasonal changes of weather.

Defects.	Boys.	Girls.
Bronchitis	 713	479
Bronchial Asthma	 27	13

Excepting the chronic cases, all were sent to the Corporation dispensaries. Chronic cases were advised institutional treatment.

Abdominal organs:—365 boys (2.05 per cent.) and 73 girls (0.72 per cent.) were defective as against 3.07 per cent. and 0.75 per cent. in the previous year. A decrease is noted during the year under report.

Defects.		Boys.	Girls.
Enlarged spleen		118	15
,, liver		1	5
,, spleen and liver		5	1
Hydrocele (Vaginal & cord)	(05)	68	-
Inguinal hernia		77	
Umbilical "		40	1
Stomach conditions		7	7
Dysentery		14	1
Diarrhoea		13	6
Intestinal colic	and	25	25
Prolapse of the anus		1	
Nephritis		1	
Other conditions	othurnee	1	3
Generative disorders in girls	The same		9
0			

The incidence of Enlarged spleen has gone down this year. Special steps were taken to revisit as many times as possible, the schools where such cases were detected and note the progress in the health of these children. Wherever the children discontinued the treatment the parents were seen and persuaded to renew the treatment for a sufficient length of time. In such cases the objections for continuance of the treatment were bitter taste of the mixture, the tedious course of treatment and the distance of the treatment centre. In one instance, it was experimentally tried to procure the mixture from the dispensary and distribute it to the affected children mainly with the help of the teachers. At the commencement this procedure was met with success, but later due to the prolonged nature of the treatment some of the boys absented themselves having this as a pretext. In such of the children as had continued the treatment, reduction in the size of the spleen was noticed. The results of the revisits and the improvements noted have been shown in the following-up statement.

The anti-malarial staff continued to work during the year in and around the schools and anti-malarial measures taken, had beneficial effects on the control and spread of the disease. In one locality the school doctor and the senior Sanitary Inspector in charge of Anti-Malarial Campaign inspected the houses of the affected children for the presence of anophelene larvae in wells. In a few houses where the larvae were found, the wells were cleaned and larvacidal fish introduced.

A definite history of malarial attacks was not available in all the spleen cases recorded during the year though the children had beneficial effects in the reduction of spleen by the treatment.

Bones and joints: 641 boys (3.60 per cent.) and 45 girls (0.44 per cent.) were defective under this head, the respective percentages for the previous year being 3.25 and 0.31.

Defects.	Boys.	Girls.
Rickety deformed chest	 622	31
General rickets	 11	
Fractures	 4	
Deformities of bones	 3	3
Diseases of bones	 5	1
Dislocations and sprains	 4	6
Diseases of joints	 	6
Deformities of joints	 16	

Most of these children were found to be under-nourished and weak. They were prescribed cod liver oil and other medicines. Remediable defects were sent to the General Hospital for early rectification.

Nervous and Psychic systems:—49 boys (0.27 per cent.) and 17 girls (0.17 per cent.) were having functional or organic defects as against a percentage of 0.22 and 0.10 respectively.

Defects.	Boys.	Girls.
Paralysis (infantile)	 9	6
Incontinence of urine	 4	1
Epilepsy	 7	-
Hysteria	 -	4
Neuralgia	 3	
Herpes	 1	-
Mentally defective	 25	8

Suitable advice and treatment were suggested.

Infectious and contagious diseases:—During the year under review 2345 boys (13·16 per cent.) and 954 girls (9·37 per cent.) had infectious diseases including skin conditions as against 11·60 per cent. and 9·55 per cent. respectively in the previous year. An increase of 1·56 per cent. in boys and a decrease of 0·18 per cent. were noticed over the previous year. The increase among boys was mainly due as previously explained to the greater incidence of scabies. Special steps were taken to combat this. Children having scabies were advised daily baths in the schools, the parents were seen and advised on the need for personal cleanliness of their children.

Such children were sent to the Corporation dispensaries for treatment and the teachers were instructed to watch the progress of these children and isolate them in the class or exclude them from the school for a suitable period wherever necessary.

Frequent re-inspections were arranged and these children received special attention. The results of these revisits showed a definite improvement in the skin condition of the children as could be seen from the statement showing the results of the following-up work.

Defects.		Boys.	Girls.
Scabies		1,817	803
Eczema		156	7
LEPROSY		92	13
Ring-worm		134	32
Lichen Dermatitis		67	-
Pruritis	•••	4	6
Taenia		2	-
Phemphigus		4	-
Acne		1	-

The type of leprosy met with was of the nerve type. They were advised treatment at Government Royapuram Hospital-Leprosy out-patient section. The parents of these children were specially called for ascertaining the family history. The nature of the disease and the course of treatment to be adopted were made known to them. The Head Teachers were instructed to send these children for bacteriological examination and treatment and if reported infective to exclude them from school till such time as the medical authorities certified them to be fit to mix in the schools.

In all the cases where bacteriological examinations were made by the Government Royapuram Hospital, the reports, however, revealed that these were only of the nerve type and non-infective. The teachers were advised to allow the children to attend the schools provided they continued the treatment.

The results of the medical advice offered are given in the statement showing the results of following-up work.

Other infectious and contagious diseases found were :-

Defects.	Boys.	Girls.
Malaria	 91	31
Hook-worm	 15	41
Whooping cough	 12	12
Influenza	 5	1
Mumps	 5	. 2
Filariasis	 2	1
Kala-Azar	 -	1
Typhoid	 -	1
Gonorrhoea	 -	3

Except the last four conditions all the other cases were sent to the Corporation dispensaries for treatment. The last four conditions required institutional treatment and the children were advised to resort to the Hospitals, and the parents also instructed suitably. Children who suffered from contagious diseases as Whooping cough, mumps etc., were excluded from the school till recovery.

Other diseases and defects:—1632 boys (9.16 per cent.) and 764 girls (7.50 per cent.) were defective as against a percentage of 10.54 and 6.40 respectively in the previous year. The chief defect under this was worms.

Defects.		Boys.	Girls.
Worms		690	589
Wounds, cuts, ulcers etc	Pilani Pilani	480	82
Undescended testis		64	-
Phimosis		146	-
Enlarged groin glands		138	-
Pyrexia		83	58
Boils and Abscesses		91	57
Keloids		8	
Warts		2	6
Leucodermic patches		38	19
Lipoma		2	-
Cyst		2	-
Obesity		4	-
Whitlow		-	1
Salivary fistula		1112	1
Alopecia		6	-
Orchitis		1	-
Burns		15-11-13	1
Tumours		(400 40)	3
Cellulitis			1
Other conditions		19	1966

All minor cases were dealt with in the Corporation dispensaries while other serious defects were advised treatment at hospitals. The improvement noted during the revisits have been separately shown in a statement.

Deformities:—94 boys (0.53 per cent.) and 27 girls (0.27 per cent.) had physical and structural deformities, the respective percentages for the previous year being 0.40 and 0.26.

Defects.	Boys.	Girls.
Spinal deformity	 10	2
Talipes	 11	5
Shortened limbs	 19	-
Congenital dislocation hip	 3	-
Ankylosis of joints	 4	2
Amputated limbs	 1	1
Genu Valgum and Varum	 11	
Supernumerary fingers	 6	3
Flat foot	 5	3
Syndactily	 3	1
Dwarf	 1	-
Other conditions	 18	9

Remediable defects were advised treatment at Government General Hospital.

No. bearing no marks of vaccination. During the course of medical examination the vaccinal condition of the school children was looked for and 95 boys (0.53 per cent.) and 83 girls (0.82 per cent) had no visible marks of vaccination against 0.51 per cent. and 0.65 per cent. respectively in the previous year. All these were vaccinated.

In addition re-vaccinations were performed after lectures on the dangers and prevention of Small-Pox. 1070 children submitted to re-vaccination after such lectures.

Medical Treatment. 14483 were advised to seek treatment at the various dispensaries and hospitals in the City the details of which are as follows:—

1.	Cases sent to Corporation dispensaries Cases referred to hospitals		Boys. 8956	Girls. 4088
2.	(a) General Hospital (b) Gosha		534	457
	(c) Ophthalmic Hospital		233	63
	(d) Tuberculosis Institute (e) Royapuram Hospital	***	25	14
	(Leper Out-Patient Section.)		92	13
	Total		9840	4643

Re-inspections. During the year special efforts were taken to make as many re-inspections as possible to persuade the parents to carry out medical advice and also to note the results of the advice. 306 such revisits were made and following up data collected which have been brought up in the form of a statement on pages 123 & 124. Children who either refused or did not improve in health were persuaded to continue the treatment till recovery.

Results of the following-up work. There is a tendency to belittle the importance of school medical service. It is often believed to be no more than a mere recording of the defects among children. Just like education the returns of the investments on school medical inspection are slow in realisation but none the less sound. Along with the development of the intellect it is necessary to take care of the health also of the children as the child of to-day is the citizen of tomorrow. As the strength and greatness of any country depend

primarily upon its inhabitants being strong and verile both in mind and body it is necessary to take as much care of the health of the people as of their educational and other conditions. Just as the child learns in the school the three R's. and acquires the spirit of 'esprit de corps' and team work and is made to develop those finer qualities which go to make it the worthy citizen of the future it is necessary to inculcate in the children habits of clean living and impart to them sound ideas of health and the necessity for personal hygiene. How can this be done any better than by close association with the medical inspection staff? The school children of to-day having had the benefit of this system of education will during their adult life be more ready to act upon advice and to welcome assistance in regard to health questions generally.

The medical inspection is also important in another way. In a country like India where the general mass of the people are steeped in superstition and fatalism and attribute their difficulties to the wrath of Gods, it is absolutely necessary that all diseases and defects should be detected and remedied in their incipient stages before they assume serious proportions.

The immediate results of these activities so fas as could be seen towards the healing of the sick were collected to show how far the children followed the medical advice and were benefitted by it. This was done during the revisits paid to the schools after the routine inspections were over. The results so for collected cover a period of three months in general in respect of each school, though in certain important cases children were kept under continuous observation for longer periods. The "tollowing up" statement Vide pages 123 and 124 shows in detail how many were operated, cured, improved or continued treatment on the Medical Inspectors' advice. There were refusals also in many cases and in such, the Medical Inspectors in their revisits persuaded the school staff to continue to use their influence on the parents. The leakage between the number defective and the number that obtained treatment is not much when the fact that the results shown cover a period of only three months in most of the cases, is taken into account. A policy of "try and try" has to be followed before one could win the parent to his side. Tact and patience are required to meet the ignorant objections of parents and make them realise the truth of our advice and the necessity for following it. The results shown in the statement are summarised below :--

Malnutrition. 323 children classed as undernourished regained their normal health after medical treatment. In 605 children improvement in general health was noticed within the period of reinspections but required continuance of the treatment for a more prolonged period. In 108 cases improvement could not be seen and they were advised continuance of the treatment. This was also partly due to their not having undergone the treatment regularly.

Teeth and Mouth. Improvements noted under this head are given in the statement already referred to. It may be mentioned that five children had their teeth cleaned by the Dentist and in 9 others the teeth were extracted for bad caries. One child had his carious cavity filled up. Another child had his tongue tie clipped.

Enlarged Tonsils. 38 of the children advised Tonsillectomy underwent the operation and the Medical Inspectors prescribed Cod liver oil for these children to build up the general health. In 587 children the enlargement disappeared after medical treatment. In 675 cases improvement was seen in the reduction of the size of the tonsils while in 58, no improvement was perceptible.

Defective Vision. 10 children were prescribed glasses after the necessary tests at the Eye Institution. Among these six wore glasses while 4 could not do so due to poverty. It is regrettable to note that these children after having been subjected to the tedious test could not get their defects remedied due to utter poverty. Any allotment of funds either private or public for the purpose would go a great way in helping humanity. 34 of the children who were advised Cod liver oil took the same and in 13 the eyes became emmetro-

pic, in another 13 there was visible improvement and in 8 children no improvement was noticeable. In the latter two cases advice was given to continue the treatment.

Two children who had infantile cataract underwent necessary operations resulting in improvement in their vision. One having Dacryocystitis was operated and cured.

Ear Diseases. In 177 of the children having chronic Otorrhoea 119 were cured, 47 were much improved and 11 obtained no relief. One child having mastoid abscess was operated upon at the General Hospital and was cured. Another was operated for Polypus ear at the same hospital.

Circulatory system:—66 of the anaemic children obtained treatment at the various dispensaries. 30 were cured, 35 improved and in one child further treatment was found necessary before improvement could be seen. Limited exercise was suggested to suit the individual cases of organic diseases of the heart found among the children.

Tuberculosis:—26 children who were weak and suspected to be suffering from Tuberculosis underwent treatment. 11 put on weight and got back to normal health. 7 children were very much improved in general health within the short period of 3 months and in 8 more, improvement could not be seen. The latter were advised to continue treatment. 4 children who had definite signs of pulmonary infections were reported to have left the schools at the re-inspections.

Respiratory Diseases:—251 Bronchitic children obtained necessary treatment. 241 of them were cured, 9 were improved being cases of chronic bronchitis and no improvement was seen in one child.

Abdominal organs:—Spleen:—55 children having enlarged spleen were cured after treatment. 35 got the spleen reduced in size after treatment. Two required prolonged treatment. They were left under the care of the teachers who were requested to follow them further till they were cured.

Out of the 6 children who had enlarged Liver and Spleen, two were treated privately and 4 at the hospitals. All these were cured excepting one child who continued treatment, the condition having slightly improved.

Hernia:—Three cases of Inguinal hernia were radically operated upon and two others were wearing trusses as a palliative measure of treatment after advice. One case of Umbilical hernia was also operated and cured.

One boy who had retention of urine was admitted at the Government Royapuram Hospital and was discharged after treatment.

Infectious & Contagious Diseases.

1145 children having scabies and dirty condition of the skin were cured after treatment. In 31 children having the same condition but of a chronic nature, improvement was noticed after treatment.

Leprosy:—Among the 105 cases of leprosy detected during the year three underwent prolonged treatment. As the anaesthetic patches regained sensation and colour, treatment was discontinued by the hospital authorities who advised the children to appear before them periodically for observation. In 28 children who continued the treatment, partial return of the sensibility and colour was noticed after a number of injections. Continuance of the treatment was advised in these cases. Improvement was not preceptible in 37 children due either to the fact that the injections were started late or to the infection being of a resistent type. Among these, three were under the treatment of private medical practitioners. 9 children left the school after detection and advice. Some among these had received a few injections while in some others information was given that native medicines were being tried in their villages.

There were 15 refusals and any amount of advice and persuasion was futile in these cases. Parents of 13 children were indifferent in getting their children treated. These attended the clinic irregularly.

As the type of leprosy in them was not of an infectious nature these could not be excluded from the schools, neither treatment insisted upon in the absence of specific rules to deal with such cases. Rule 27 (a) of the Madras Educational Act lays down that "no pupil shall be permitted to attend the school who is found to be suffering from venereal diseases or leprosy in a contagious form or from Small-Pox or from any other serious contagious or infectious diseases."

As there is a possibility of these non-infectious cases running on to the infectious stage at any time either due to devitalising influences or a continuous and heavy infection, exclusion of these then and there at such stages becomes a matter of great importance though detection of these at such stages may not be practically possible due to the children not reporting themselves at the clinic either for treatment or observation. It is therefore necessary that rules regarding exclusion of school children suffering from leprosy in a contagious form be so amended that even children suffering from the disease in the non-infectious stages should be excluded from school unless they underwent treatment in a recognised institution.

While investigating into the family history of the children for detecting the possible source of infection, the father and mother of a boy and the mother of another were found to suffer from Leprosy. The former two were of the skin type (infectious) and the latter was of the nerve type. (non-infectious). As advised they underwent treatment along with their children regularly. The nerve type of case mentioned was almost cured by treatment while in the other two, the progress was found to be slow.

Hookworm Disease:—6 children showed a definite cure after a course of the treatment. In 33 improvement was noted. These were advised to continue Iron Tonic.

Gonorrhoea:—Among the three girls detected suffering from Gonorrhoea, two were treated and cured while one refused treatment and left the school.

Enteric Fever:—One girl with clinical signs and symptoms of typhoid fever was advised admission at the hospital. During the re-visit it was reported that the girl was admitted and cured.

Phimosis:—46 children underwent circumcision operation for Phimosis after medical advice.

Co-operation of parents. - During the course of medical examination of children the medical inspection staff met the parents of 4517 children. The personal and family history were enquired into and any defects found in them were pointed out to the parents with necessary medical advice. Special stress was laid on the importance of personal cleanliness of the children. The number of parents met in the previous year was 3663. There has been an improvement in the attendance of parents at the inspections showing that they are taking increased interest in the medical inspection and treat-ment of their children. In certain cases the parents themselves and their infants were examined and advised at their own request. From a perusal of the statement showing the results of re-visits one could easily judge as to how far the parents availed themselves of the benefits of medical advice. Whenever the parents required help in the admission and treatment of their children in the hospitals, the school staff in certain cases gave the necessary help. Linking a well organised social working scheme with the medical inspection activities will really go a great way in supplying the wants in this direction. The social workers to whose care these cases will be entrusted for carrying out the medical advice can devote themselves to the duties of advising, persuading and taking children to hospitals for treatment. The advantages of such a system will be that the 'following up' work now done by the Medical Inspectors and school teachers necessarily limited in its scope will be more frequent and continuous.

Co-operation of Teachers:—The school staff maintained registers of defective children during the year and to the best of their abilities and to the extent co-operation was available from the parents, made the children attend the various treatment centres. The Medical Inspectors explained the common diseases occurring among the children. Arrangements are being made to print and distribute to all the schools an explanatory note on the common diseases of children. Some among the teachers with a social bent of mind also helped the parents in taking their children to the hospital.

School Sanitation:—The sanitary condition of the school building is of prime importance in the proper upbringing of children as the better part of the day is spent there. The environment of the school building received the careful attention of the Medical Inspectors. 17 school buildings were reported as unsuitable for school purposes for want of proper accommodation, lighting, ventilation and latrine arrangements. In the case of 31 schools, suggestions were given either to improve the accommodation, ventilation etc. or if possible to change the premises.

School Latrines: —The latrines in 57 school buildings were found to be inadequate and wherever possible those of the flush-out type were suggested. 30 schools were provided with flush-out latrines. Two schools had no separate or proper latrines for use. Provision of latrines was recommended in these schools.

Water Supply .—A sufficient number of taps has been provided in all the schools. Children as in previous years are supplied with strained tap water for drinking. Early provision may be made for supplying boiled water at least to such of the schools as receive midday meals.

Play Ground: —49 schools have no facilities for play and recreation. It is necessary that all the schools should be provided with suitable playgrounds.

School Equipment :- All the schools have adequate furniture.

Bathing Classes:—Bathing rooms were available in 61 schools. The teachers were advised to arrange for the periodical bathing of dirty children at the school bath-rooms.

During the inspection of the schools this year, repairs and extensions of buildings or other improvements were noted to have been done in 6 schools. Extension was started in one model school (Korukkupet Boys' School) recently at the end of the year. Four schools in addition had latrine accommodation provided. Urinal was added to another school.

Five schools situated in buildings reported as unsuitable for school purposes last year were removed to buildings having better accommodation, ventilation etc.

Midday Meals:—The supply of midday meals was continued this year also. As mentioned in the report of the previous year meals were cooked and distributed under the management of the Corporation. 14 schools were additionally provided with midday meals this year, the total number of schools receiving the supply being 52 as against 38 in the previous year. 3500 children were fed daily in these schools as against 2500 in the previous year. The Medical Inspectors inspected the schools daily at the time when meals were served.

Propaganda:—167 lectures were delivered in the schools and 47 talks arranged with the parents and pupils during the course of the inspections. The total attendance at these lectures was 18231. In addition to this, charts relating to school hygiene were exhibited in the booth reserved for the health section in the Industrial Exhibition during the Park Fair Season.

The details of propaganda work done are given below:-

	Subject.	Lectures.	Talks.
1.	Small Pox and Vaccination	 27	10+01
2.	Cholera	 15	-del-ord
3.	Tuberculosis	 10	-
4.	Malaria	 21	5
5.	Hookworm disease	 14	8
6.	Leprosy	 10	1
7.	Flies	 3	1
8.	Personal Hygiene	 45	9
9.	Ventilation and Housing	 03	11
10.	Diseases of children	 4	-
11.	Infectious Diseases	 1	-
12.	Filariasis	 2	6
13.	Mosquitoes	 3	-
14.	Domestic Hygiene	 3	-
15.	Water Supply	 2	4
16.	Worms	 7	2
			100
		167	47

(For Statistical Tables see pages 115 to 124.)

REPORT ON THE WORKING OF THE WATER ANALYSIS LABORATORY, FOR THE YEAR 1931.

General.

During the year under review the lake water was effectively chlorinated as in last year at the Kilpauk end of the raw water conduit and then filtered through sand filters working at 6" or 8" vertical per hour. The filtered water as supplied to the City was bacteriologically inferior to the chlorinated raw water throughout the year. Sulphuretted hydrogen was noticed as usual in the filtered water chambers and at the inlets to the underground filtered water reservoirs especially in hot weather. The colourless sulphur bacteria—Beggiatoa and Thiothrix were also found growing in all those places, where hydrogen sulphide was produced.

Nitrites were occasionally found in samples drawn from the test tap at K.P.S., in filtrates from some beds, and in samples drawn from the City. That they were not due to any sewage contamination was evident from the fact that they were detected in filtered water samples drawn from different places within the water-works, where there is no possibility of any sewage contamination taking place. They are formed most probably as a result of the imperfect oxidation of "free ammonia" present in filtered water.

The average daily consumption of water in the City was 19.46 million gallons.

Scientific.

- (a) The work done at the laboratory during the year is shown in Table I. (page 125.)
- (b) Red Hills Lake:—The lake water was of maximum purity (l. f. in 5 c. c. and upwards) during January, April, May, June, July, August, September and December (Table III page 126). The average total colonies per c. c was 984 for the year. Chemically the lake water contained less organic matter than last year (Table IV page 127). The average yearly lake level was also lower (Table II). The total rainfall in the lake region was 56·12' as against 75·29" in 1930 (Table II page 125.)
- (c) Raw water at the Kilpauk end:—Raw water was of a fair quality bacteriologically almost throughout the year (Table III page 126). Chemically a

slight increase in "free ammonia", marked reduction in "albuminoid ammonia" and "absorbed oxygen" occurre dwhen compared with the corresponding results of last year (Table IV page 127). Organic matter as represented by the figures for "absorbed oxygen" was highest in May and lowest in December while the lake level was highest in January and lowest in July (vide graph).

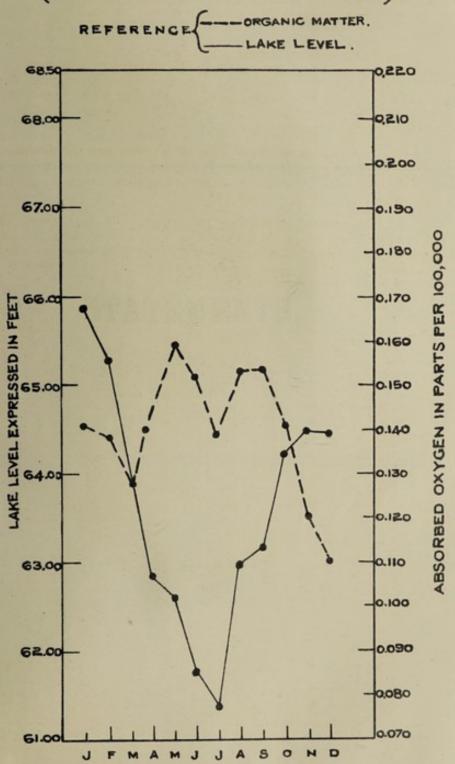
- (d) Chlorinated raw water:—Raw water was effectively chlorinated throughout the year. From January to 13th August the dose of chlorine was kept at 1.5 parts per million after which it was reduced to 1.0 part per million.
- (e) Filtrates from Beds.—The yearly average percentage of first class samples (l.f. in 60 c. c and upwards) was nearly the same as in last year (Table III page 126). Chemically the figures for organic matter showed a distinct reduction over the results of last year (Table IV page 127). The average life of a sand filter was 46 days per run as against 44 days in the previous year (Table VI page 128).
- (f) Filtered water from Central conduit and the test tap:—The number of first class samples (l.f. in 60 c. c and upwards) showed a distinct increase (Table III page 126) while the chemical figures for organic matter were lower than in last year (Table IV page 127).
- (g) Distribution system:—The number of first class samples (l. f. in 60 c.c. and upwards) as in the previous case showed a definite increase while the average bacterial colonies per c. c. showed a reduction (Table III page 126) Chemically an all round reduction in the figures for organic matter was observed over the results of last year (Table IV page 127).

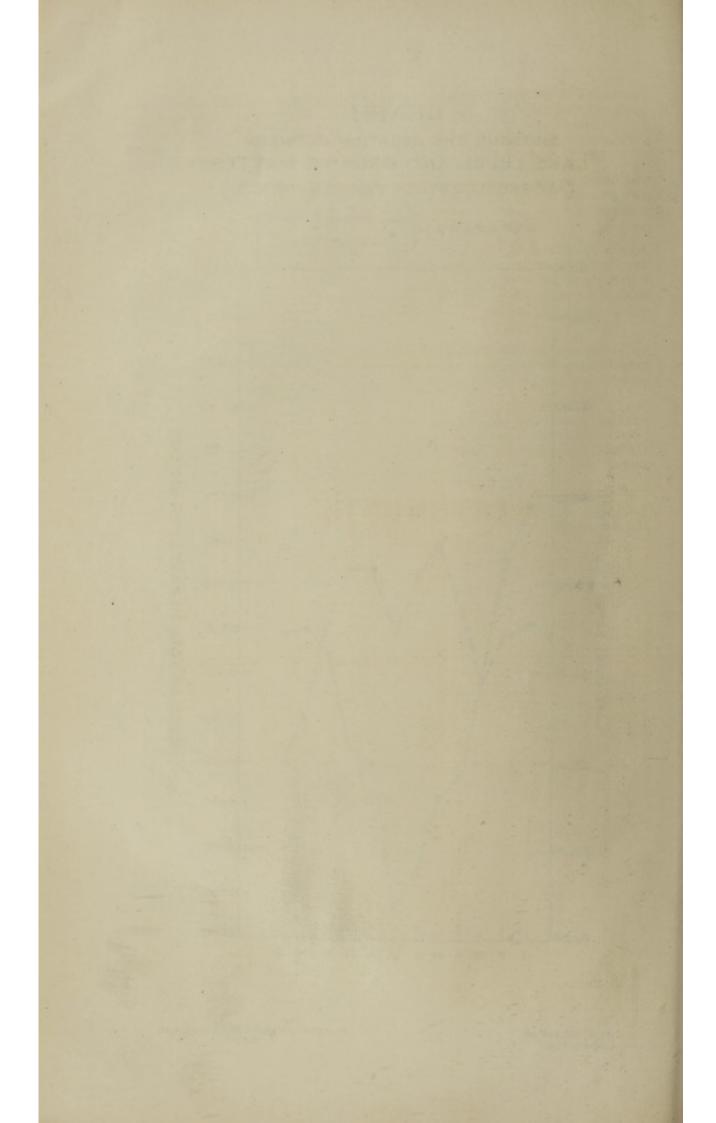
S. V. GANAPATI, B.A., M.Sc.

Water Analyst.

GRAPH

SHOWING THE RELATION BETWEEN
LAKE LEVEL AND ORGANIC MATTER
(ABSORBED OXYGEN FIGURES FOR 1931)





STATEMENTS.

VITAL STATISTICS (STATEMENTS).

Annual Form No. A. Meteorological Data :- Madras.

Latitude :- 13° 4 North.

Longitude :- 80° 15 East.

	guinn	Maximum to the minimum to the minimu	0-03		1.17	1.67	2.37	2:16	2.43	5-49	5.06	2.41	1-79
Rainfall.	lo l Zning		0.05)	0-0	1.517 6	1:2 1:1	-	200.0	_	-	~	_	58-53
-		Number of on which fell,	03	:	**	4	10	13	13	14	19	14	1114
lo suc	lirectio	Prevailing of	NEbyN	田山	-	YE	S W by S	S W by S		in	NEbyE	5	SEbys
noiter	Satur	Degree of complete being 100	71	27 5									73
ature	temper.	Difference l point t and Mea perature,	11-11	10.5	10.1	12.5	17.4	12.9	10-7	16.3	8-9	8.9	11-7
		Mean Maxi Solar radia		:: "	: :	:			::	:			:
meter.	Dew point.	Mean daily value.	65-3	67.3	7.4.7	75-1	71.1	711.7	72.6	66.2	71-3	2-69	70.5
ng of Thermometer.		Mean daily value.	76-4	77.8	84.8	9.18	88.2	84.6	83.3	82.5	78-1	76.5	82.5
Reading o	Dry.	Mean daily range.	15.5	17.5	14.2	16.7	17.9	15.9	14.3	14.2	109	9.6	14.9
M M	D	.muminiM	0-69	68.9	78.7	81.5	\$2.÷	78.6	7.77	2.92	73.3	72.4	75.9
		.mumixaM	84.3	F.98	92.9	3.86	100.3	5.FG	92.0	2.06	84.3	82.0	8.06
Barometer.	read-	Mean daily ing reduc	29-990	096.	.826	-724	629	727	-747	618.	656.	686.	29-829
	1931.		. :	:	: 6	:	:	:	-			-	-
	Months 1931.		Januery	February	April	May	June	July	September	October	November	December	Annual

Annual Form No. 1-Births registered by divisions during the year 1931.

=		*Illegiti Diril	.4	14	200	00	23 =	00	6	24 -	# 0	==	1	200	20	-=	20	16	20	31	2 9	0	66	100	13	1	8	364
10	ths.	Still bir	41	120	27	19	30	300	38	17	707	41	œ	30	200	36	+4	38	44	200	00	200	36	41	83	215	35	1318 3
	during 5 years.	Total.	39.5	13.8	34.8	29.0	25.00	22.9	37.1	33.1	25.00	33.1	21.3	32.1	23.5	37.4	37.6	46.6	31.9	32.6	6.76	41.8	35.3	400	40.7	31-1	33.1	36.9 1
6	ratio 1000 ious	Females.	37.6	427	35.2	37-6	31.3	9-62	38.1	33.1	24.7	32.5	27.2	34.4	9.92	288-1	49.3	48.3	34.4	33.9	20.00	44.1	36.1	39.0	40-7	31.3	32.9	38-0
		Males.	41.4	41.8	34.4	23.9	22.0	18.7	36-1	33.0	25.62	33.7	7.55	30.4	31.1	36-9	33.8	45.0	8.68	5.1.0	0.17	28.6	34.6	40.8	40.8	31.0	33.3	35.8
8	Ver 1000	ot bobny desilis pe desilis or Excess or	0.5	:	3.9	2.6	:	0.3	:	8.9	4.5	: :			:		0.3	:	:	:	:	:	:	. :		:		:
1	sd1	excess of over dea per 1000 populati		9.0	3.1			00	9.3	:	5.0	1.5		3.3	200	6.2	2 4	16.7	2.5	2.0	8.4	13.1	7.0	0 0	5.6	7:3	F-F	4-0
9	of nre	Males bo every 100 Females Females	108-9	102.8	102.0	89.3	90.5	118.3	100.0	106.7	110.2	107.7	117.0	9.16	113.1	100.8	97.2	105.4	101.0	107.5	109.8	#. JOI	100.1	119.1	113.3	108.1	102.8	6.901
	111 111	Total.	39-7	20-0	34:0	30.3	31.0	27.3	41.0	36.6	25.7	36.9	29-4	37.5	35.6	2001	35.0	50.7	31.5	9.98	42.4	49.9	1.14	41.9	43.5	87.9	33.6	39.8
10	Ratio of births per 1000 of Population,	Females.		50.5			-	33.3	_		20.0	2000			35.4					-		200	0.70	700	41.4	87.9	33.8	40.6
-	Ra	Males.	41.5	49.8	34.0	25.00	25.1	24.2	39-1	36.8	23.3	37.4	26.7	32.6	35.7	46.8	31.1	49.7	33.3	35.6	42.0	49.0	20.0	49.1	45.6	37.8	33.3	39.0
	ths	Total.	11.8	1,896	1,102	265	412	179	788	742	185	698	115	641	1,558	1,240	780	1,489	840	966	1,139	1907	255	808	1.190	1.257	714	25,738
7	No. of births registered	Females.	417	639	440	140	232	82	391	359	88	336	53	331	731	572	395	725	418	480	543	104	200	281	200	604	352	12,489
	No.	Males.	454	657	449	125	210	97	394	383	162	362	63	313	827	540	385	764	4 22	516	980	010	204	497	632	653	362	299
	cord-	Total.	21,952	25,911	25,538	8,704	14,257	6,550	19,202	20,294	91,194	18,916	3,906	17,183	43,817	27.054	22,137	29,385	24,334	27,238	20,040	170,10	19 514	19 615	27,343	33,203	21,270	6,47,230
65	Population accord- ing to the Census of 1931,	Females.	11,903	12,722	12,347	3,221	5,880	2,537	9,124	9,880	3,034	9.235	1,581	7,568	120,641	13.086	9,764	14,022	11,259	12,726	12,328	7,698	9,000	9,480	13,483	15,919	10,407	3,41,223 3,06,007,6,47,230 13
	Popul ing t	Males.	10,949	18,189	13,004	7	-				11 135	_		_		13.968		15,363	-	-	-	9.394	200	10,135	13,860	17,284	10,868	3,41,923
5		Districts,	Royapuram	Tondiarpet	Korukkupet		Muthialpet	Kothawal Bazaar	Ammen Koil	Seven Wells	Peddunaickennet	Trevelyan Basin	Esplanade	Park Town	Choolei	Purasawalkam		Egmore	Kilpauk	Nungambakam	Tirmyoteecwarenat	Chenauk	ne	Amir Mahal	t	Royapettah	Mylapore	
1	'st H—1	roisivid	-	24 0	3 41	2	9 6	- 20	6	10	15	13	14	10	17	18	19	20	22.0	7 6 6	94	25	26	27	28	53	23	

Mean ratio of deaths per 1,000 during previous Five years. 9.90 Total Pemales. 10 82482222664 86 2 Males. 35.8 Total. causes. 34-8 86 9 Females. 16.6 All other causes. 10.08 18.55 11.17 11.18 11.19 Deaths from child Injuries. Deaths per 1,000 of population from Other respiratory Annual Form No, II-Statement of Deaths by Divisions during the year 1931 Tuberculosis. 116 Dysentery Diarrhoea. 0 8 4 8 8 8 8 8 9 + 20 Other tevers. 10000 0.8 Enteric lever. BIBLISIS OF THE PARTY OF THE PA 0.03 0.0 : :5 11111 1111 Measles. 1111 1111111111 10.0 : -xoq-ilems 0.00 Cholera. 0.5 No. of deaths of males to every 100 deaths of females. 100.00 10 131.4 122.9 106.3 13,162 Total No. of deaths. 11,283 Pemales 618,11 Majes. 21,972 25,693 25,633 25,633 27,64 20,29 20,29 21,64 3,916 3,916 3,916 3,916 27,034 22,187 22,187 26,45 26,45 31,871 11,092 21,845 21,848 21,848 21,848 48,817 6,47,230 to the Total. Population according Census of 1931. 3,06,007 Females. 23,176 11,249 11,249 11,249 12,23 16,23 10,301 10,301 11,264 10,663 10,949 18,189 18,189 5,483 6,856 4,018 10,078 11,186 9,641 2,425 3,41,223 Malcs. 32:8 Density per area. 19,728 11:11 Total Harbour
Muthialpet
Katchalewaranpet
Kothawal Bazar
Anmen Koili
Seven Wells
Sowcarpet
Pedduraickerpet
Pedduraickerpet
Reduraickerpet
Reduraickerpet
Esplanade Vepery Egnore Kilpauk Nungambakam Chiniadripei Tiruvateeswaranpet Districts Washermanpet Porasaiwalkam Chepauk Triplicane Amir Mahal Mirsahibpet Royapettah Myiapore Park Town Perambur Choolai Divisions. 000000 968866888888989898

udes 846 deaths in the Government General Hospital of patients admitted from moffusil and destitute

Annual Form No. III. - Deaths Registered by Divisions during each mouth of the year 1931.

4	Total deaths Registeredduring the year 1931.		876	1,073	989	314	323	410	101	881	215	753	929	094	2000	1,450	993	786	997	780	781	1,011	1,248	281	619	130	1,119	620	-	23,162
	December.		79	65	192	25	35	52	66	7.1	15	77	52	37	64	16	77	67	19	7.4	51	87	115	48	27 0	20	22	48	1	1,839
1	November.	100	63	103	69	19	20	25	53	63	19	61	42	34	20 0	20 00	655	55	78	42	65	250	96	36	41	9	12	4.5	1	1,662
	October.	-	57	19	58	26	21	31	34	19	18	58	41	46	330	113	69	61	76	89	25	201	87	37	27.5	000	40	36	1	1,609
100	September.		59	67	65	24	22	21 -	36	10	14	24	900	200	46	74	689	53	89	48	19	65	6.	05	15	# 0	36	430	1	1,588
	August	10.45	72	83	101	38	17	45	5.50	81	21	6.8	55	36	147	101	105	72	14	19	26	16	200	68	200	900	200	200	1	1981
3	'Ainf		99	91	19	15	21	29	41	89	19	45	69	53	200	70	76	555	19	21	22	70	107	200	60	000	200	35	1	1,629
	June.	el os	17	100	101	27	43	919	9 19	81	17	83	76	54	22	000	96	11	66	65	98	35	115	69	60	00	111	71	1	2,276
	May		78	91	95	30	27	31	7.1	02	11	283	99	38	45	50	66	83	104	73	62	81	113	41	200	60.	102	73	1	2,055
	ImqA	1. 19	09	68	84	21	33	26	44	909	15	92	.55	38	333	113	73	50	73	56	57	98	68	200	77	00		49		1,697
	March.	P. S.	89	5	86	200	25	39	200	102	20	56	53	35	44	116	99	19	80	52	55	73	135	09	40	-	105	25.0	1	1,944
100	February.		92	66	113	503	19	933	36	78	21	57	89	60	70	101	280	99	96	65	19	103	318	99	200	0	104	57	1	2,141
	January.		121	124	120	38	41	28	65	5.5	25	7.9	7.1	46	77	222	195	10	117	1119	97	115	126	29	0000	200	149	64	1	2,841
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Districts.		Royapuram		Washermanpet	Harbour	Muthialpet	Katchaleswaranpet	ızaar	Seven Wells		kenpet	Trevelyan Basin	Esplanade	Park Town	Ferambur	Purasamallam	Venery	Egmore	Kilpauk	Nungambakam	Chintadripet	Tiruvateeswaranpet	Chepauk	Triplicane	Amir Mahal	Mirsahibpet	Koyapettan Mylanore	··· and	
-	Divisions		-	99	00 -	4 10	9	-	200	10	11	12	13	14	15	16	10	-		212	222	23	54	22	26	29	00	200	20	-

1	-	ars ds.	Females.	89	107	# -# 0	25.0	53	8.5	609	75	45	96	688	16	65	95	123	230	42	107	65	2,095	214.9
	12	60 years and Upwards,	Males.	78	8 8 2	161	36	23 50	77	275	32	14	95	08	88	138	88	125	655	16	828	14	1 991	6-191
	11	sand 60 rs.	Females.	18	0 00 14	200	22	27	34	18	333	. 62	32	4-1-2	35	31	25	36	10	13	39	10	687	42.6
		50 years and under 60 years,	Males.	33	41	123	17	20	37	30	32	20	48	34	45	41	41	49	24	26.2	35	35	972	20.1
1931,	10	40 years and under 50 years.	Females,	18	350	4-	10	134	4.	18	19	17	22.	010	1 60	27	300	35	119	13	47	12	634	28.2
ne year	-	40 yes unde ye	Males.	28	45.	227	11	31	56	56	19	30	39	39	29	94	41	54	20	35	200	12	943	24.9
divisions during the year 1931	6	30 years and under 40 years.	Females-	34	60.00	12	* 23	20.00	25.	32	17.00	18	30	38	48	34	200	20	200	30	38	30	875	18-9
isions d			Males.	24	488	91	120	25	55	30	24	24	41	34	41	48	38	49	16	41	42	16	1961	16-1
by div	8	years and nder 30 years.	Females.	31	39	17	330	33 0	22	4	25.52	000	36	49	67	253	44	48	30	40	20	21	1,103	1.91
according to age by		02 III	Males.	20	33	120	130	20	25	19	32	22	42	25.0	33	68	43	35	10	28	43	10	847	11.8
rding	7	15 years and under 20 years.	Females	× 5	19	100	0 -1	139	15	- 21	2 00	010	7 7	20 19	52	100	20 02	25	17	15	17	1	415	12.3
acc		20 a	Males.	20 10	55:	40	0 - 0	21 19	0 6	11	14	4.	110	001-	10	110	122	25	0 4	6	13	2	257	1.6
IV-Deaths registered	9	10 years and under 15 years.	Females.	4 2	100	000	: = 0	20 10	12	6	14 2	000	1,7		9	- ×	10	14	0 60	12	141	9	226	2.0
regis			.s: leM	20 ==	7 2	.000	000	- 60	= "	- 20	K-1-	47	2 8	6 9	4	9 9	000	11	0 1-	040	x 00	12	3:1	6.5
eaths	23	5 years and under 10 years.	Females.	17	77.	100	000	20 00		1=	9 7	200	14	200	12	122	17	97	=	=	13	14	383	11.3
9		THE RESIDENCE OF THE PARTY.	Males.	15	255	000	000	9 17	12	19:	9 =	100	18	19	13	70	12	82	14	12	27	=	101	11.3
TO.IV	4	1 year and under 5 years.	Females.	25.00	94	200	34	50	41	69	13	39	125	68	S.Z	58	96	101	20	26	83	51	1913	62.5
rm)		1 a a 5 y 5	Males.	72	78	639	200	48	44	63	54	56	90	68	200	57	75	92	53	57	95	69	1824 19	60-2 62
Annual Form No.		Under 1 year.	r emales.	124	133	42	47	125	83	66	106	26	131	135	134	83	140	151	91	=	128	87	2,952	237.3
An	80	Under	Males.	157				932					-			100	153	174	93	111	165	86	3,439	258-6
		1		1:	!!	::	: :	: :	:	: :	:	: :	: :		: :	:	: :	:	:	: :	:		:	
	63	Districts.		Royapuram	Vashermanpet	Harbour	Muthialpet Katchaleswaranpet	Kothawal Bazaar Ammen Koil	Seven Wells	Sowcarpet	1000	Park Town	Perambur Choolai	Porasawalkam	Vepery	Kilpauk	Nungambakkam	Tiruvateeswaranpet	Chepauk	Amir Mahal	Mirsahibpet	Mylapore	Total	Ratio per 1,000
-	-	1	enoisivid	1-	9 60 -	4 10	-10	00 00	2:	13	13	12	17	13	20	150	23 63	24	52	27	288	30		!

In the case of children under one year of age, the ratios are calculated on live births during the year. In all other cases on the number living at the time of the Census of 1931.

Ratio of deaths per 1,000 of population F-66 Total. Others, 32.8 135.8 135.8 31.9 73.2 18-3 45.2 48.0 38.5 38.5 51.4 89.9 41.7 Моћашадаци 33.7 33.4 39.0 39.3 35.4 30.0 30.0 31.1 36.5 .subniH Annual Form No. V.-Deaths registered according to class by divisions during the year 1931. 2337.6 2337.7 20.4 20.4 20.4 333.7 38.2 38.2 52.6 25-1 : Christians. \$76 1,073 1,073 1,073 314 323 410 181 609 881 215 676 676 676 1,023 983 1,023 983 23,162 1,011 Number of deaths registered. Total, 00 Others. *16 109 109 132 132 24 22 23 23 126 126 55 Mohamadans 800,61 *snpaiH 6,47,230 1,359 Christians, 27,034 28,137 28,138 28,138 31,38 31,59 31,59 31,50 31 21,952 25,911 25,663 25,563 8,704 14,257 12,707 6,550 19,202 20,294 7,194 21,547 18,916 3,906 17,183 27,488 Total. Population as per Census of 1931. 2,901 Others. 1,149 1,718 1,718 1,718 1,087 1,165 1,265 219 8,409 507 507 1,945 2,902 726 1,723 1,723 1,723 1,723 1,723 3,665 70,081 391 Mohamadans 14,840 22,616 23,035 20,557 3,491 12,308 9,822 54,123 5,20,176 22,347 15,922 21,313 20,003 19,616 5,832 12,967 17,829 6,658 21,141 18,500 3,387 19, 02 11,314 20,846 28,612 17,117 .subniH 5,797 2,300 2,300 3,000 3, 665 2,175 1,427 4,088 4,116 5,080 3,584 1,365 1,95 1,95 603 Christians. : 1:::: Total Tiruvateeswaranpet Muthialpet Katchaleswaranpet Kothawal Bazaar Ammen Koil Districts. Peddunaickenpet Trevelyan Basin Esplanade Vepery Egmore Kilpauk Nungambakam Washermanpet Purasawaikam Chintadripet Triplicane Amir Mahal Korukkupet Harbour Mirsahibpet Royapettah Royapuram Seven Wells Park Town Sowcarpet Perambur Chepauk Choolai Divisions

H-15

· Includes Deaths in the Government General Hospital of patients admitted from moffusil and destitute.

Mean Katio per 1,000 during previous five years. 1.0 9 0.5 0.02 Total. Ratio of deaths per 1,000 of population. Annual Form No. VI-Deaths registered from "CHOLERA" by Divisions during each month of the year 1931. 0.3 0.3 Females. 5.00 0.5 11101110 6.5 Males. 153 Total. Total. 87 Females. 99 Males December. November. September. August. .yinly. June. 18 May. 13 .firiqA 91 Матећ. 53 February. -1 January. Total Districts. Tirnvateeswaranpet Katchaleswaranpet Kothawal Bazaar Ammen Koil Seven Wells Sowcarpet Peddunaickenpet Trevelyan Basin Royapuram Tondiarpet Washermanpet Nungambakam Purasawalkam Chintadripet Triplicane Amir Mahal Mirsahibpet Royapettah Korukkupet Esplanade Park Town Muthialpet Perambur Harbour Chepauk Vepery Egmore Kilpauk Choolai Divisions.

	9	Mean ratio per 1,000 during previous hve years.	000000000000000000000000000000000000000	
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years.

0.05 Mean ratio per 1000 during previous five 0 900-0 10-0 Ratio of Deaths per 1,000 of Population. Total. 90-0 0.007 0.07 Females 10 Annual Form No. VIII. -- Deaths registered from 'MEASLES' by divisions during each month of the year 1931. 0.003 Males. 60 Total. 04 Total. Females 1111 Males. 3 H November. 1 October. : 1 September. : August. 1 luly. . lune. : May. April. : Матсh. : February. January. : Total Districts. Muthialpet Katchaleswaranpet Kothawal Bazaar 00 Tiruvateeswaranpet Sowcarpet Peddunaickenpet Vepery Egmore Kilpauk Nungambakam Trevelyan Basin Tondiarpet Washermanpet Purasawalkam Ammen Koil Seven Wells Chintadripet Mirsahibpet Royapettah Mylapore Esplanade Park Town Amir Mahal Korukkupet Royapuram Triplicane Perambur Harbour Chepauk Choolai Divisions.

Annual Form No. IX-Deaths registered from Plague--Nil.

I	9	-ndo	Mean rati 1,000,1 lation	2.2	2.0	1.7	3:1	101	7.2	2.0	70 79	25.51	3.6	1.5	9.3	.0.	1.8	9.0	0.8	6-0	1.9	9-0	9-0	9.1	0 1	22	1.6
		deaths per population.	Total.	0-02	000	0.8	5.5	0.5	9.0	1.0	7.5	0.1	0.3	2.0	2 6	0.1	0.5	1.00	0.8	1.3	0.7	1.0	0.00	0.0	0.00	6.2	1.5
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31.		hs per	Total.	0-05	0.5	3.0	0.3	0.4	0-1-0	0.3	9.0	6.3	6.3	200	0.0	1.0	0.3	200	7.0	0-1	0.5	0.4	200	250	20	0.03	0.02	0-3
ear 19	5	Ratio of deaths per 000 of the Population	Females.	;	20.00	100	9-0	0.3	7	37	9.0	15	0-3	1:3	6.5		0.50	0.5	0.3		0.5	0.5	0.7	200	0-1	***	:	0.5
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	The same	Deaths per population.	Total.	5.6	6.4	20.00	3.7	5.7	0.0	6.6	5.6	1:5	2 5	1.0	3.1	3.1	3.5	9.1.	0.1	2.7	1.7	17.	000	1.4	1.5	1:1	3.1	=	6-1	1.0	2.7	
r 1931.	5	of Deaths of populati	Females.	55 FE	5.5	8.5	5.0	5.4	8.4	3.0	**	0.1	33	0.0	Ξ	2.6	8.0	Ξ:	1.1	0.1	0.7	1.0	8.6	9.5	67.21	1:1	7.5	6.0	1.8	1.3	6. 2	
the year		Ratio 1,600	Males.	5.5	4.6	2.5	6.6	2.4	010	9 00	1.8	1.9	1.1	0.0	4.3	3-4	2:3	6.7	0.0	0.7	0.0	1.4	8.8	4.8	6.0	7.1	3.3	1.3	2.0	0.2	2.2	
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* Includes deaths in the Government General Hospital of patients admitted from moffusil and destitute.

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	95		3.4	4.4	5.50	200	3.1	5.6	2.3	4.0	2 20	300	1.5		2.2	1.1	2.5	000	4.5	2.3	3.7	3.7	6.55	3.6	3.0	0.0	0.0	4.9	4.9
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94		Districts,		Wash rmannet	Korukkupet	Harbour	Katchaleewarannet	Kotbawal Bazaar		Seven Wells	Sowcarpet	Peddunaickenpet	Fenlanada	··· Samuelder	Park Town	Perambur	Choolai	Purasawalkam	vepery	Kilnauk	Nungambakam	Chintadrinet	Tiruvateeswaranpet.	Chepauk		Amir Mahal	Mirsahibpet	Royapettah	
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Annual Form No. XIV. Deaths registered from "TUBERCLE" including Tubercle of the Lungs by divisions during each month of the year 1931. years. Mean ratio per 1,000 during previous five 9.11 Ratio of deaths per 1000 of population. Total Females Males. 1,020 Total. Females 484 536 December. 73 November, October. 68 September. 60 August. 91 July. 65 June. May. 60 JingA. 27 March. 86 February. Total Districts. Harbour Muthialpet Katchaleswaranpet Kothawal Bazaar **Firuvateeswaranpet** Sowcarpet Peddunaickenpet Nungambakkam Trevelyan Basin Purasawalkam Tondiarpet Washermanpet Ammen Koil Seven Wells Chintadripet Triplicane Amir Mahal Mirsahibpet Royapettah Royapuram Korukkupet Park Town Esplanade Perambur Mylapore Vepery Chepauk Choolai Kilpauk 3222222222222222 10045010000110111 Divisions.

* Includes deaths in the Government General Hospital of Patients admitted from moffussil and destitute.

Annual Form No. XV.—Deaths registered from "RESPIRATORY DISEASES" excluding Tubercle of the Lungs by divisions during each month of the year 1931.

9	ng pre-	Mean rat 1990 duri vious five	8.9	12.1	10-3	2.9	6.9	9.5	10-5 2 × 5	0 00	10.5	14.3	8.9	10-3	11.6	+6	50.00	9.9	200	8.8	7.3	2.9	9.9	1.1	8.1	6.0	0.9	8.5	
	Deaths per population.	Total.	9.9	∞ ∞	9:3	20.00	4.4	10-1	10.0	10.2	2.5	6.9	9.3	9.5	12.0	10.9	11.8	2.5	à	10.1	9.2	9.8	6.5	6.1	10.0	200	6.9	6-8	The State of
22	of Death	Females.	4.6	80.00	12.4	7.5	2.1	10.3	6.9	10.6	7.6	6.9	9.5	9.5	9.7	10.5	14.0	7.1	000	11:1	7.1	9.1	9-9	0.9	5.6	000	6.9	8.8	No. of Lot, House, etc.,
	Ratio 1,000	Males.	8.8	6.60	2000	4.5	4.0	6.6	11.8	0.0	6.6	6.9	9.3	0.6	14.2	11.5	10.0	2.0	7.0	9.1	8.0	7.8	1.9	9.6	10-7	2.2	1.9	8.9	Section 18
		Total.	183	227	192	83	29	194	121	660	183	27	100	407	331	295	261	102	166	270	222	148	127	121	273	500	135	5,743	Total State of
4	Total.	Females.	95	105	84	45	13	94	86.	110	87	1	70	196	128	134	137	600	200	143	108	73	61	57	125	135	99	2,703	
		Males.	91	122	108	38	16	100	123	110	96	16	S C	208	203	191	124	118	113	127	129	73	99	97	148	124	69	8.035	
	.73	Decembe	20	20	13	6.	4 4	21	17	71 17	16	00	10	25	35	21	22	= :	12	28	53	14	1	14	13	55	12	177	
1	.73	Novembe	15	120	77	9	0	17	111	000	6	9	c	28	20	15	13	07	201	94	15	1	12	10	28	21	11	415	destitut
		October.	14	15	2000	4	000	10	13	00	10	4	1.1	23	23	18	22	16	70	10	15	00	10	7	55	19	10	381	ban I and
	.33	Septembe	111	18	12	.00	4 4	11	18	:0	111	9	13	2000	24	200	82		11	200	26	6	1	8	17	19	11	376	Il o me
		August.	11	25.	14	000	×	14	18	4 1	14	30	12	63	30	27	50	17	20	11	17	10	6	13	22	10	6	418	Applications from
		July.	96	6	20 00	001.	c -	13	27	0 1	13	00	:	93	25	19	14	12	CT	16	25.5	6	4	11	19	20	1	393	
0 00		Jane.	200	30	8=	23	23 00	20	25	9 5	24	6	12	36	288	42	56	27	14	07	35	23	11	26	34	24	18	653	of Delinete
		Мау.	400	2 24	23 0	01	9 00	26	27	400	120	-	14	161	24	25	34	823	200	95	18	111	12	17	27	28	12	536	Transfer .
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		March.	11	18	17	11	119	180	12	9:	17	0.00	0	31	455	22	19	22	14	150	20	12	10	23	17	17	13	454	
		February	00 1	25	18	000		13	11	100	10	9	10	10	26	27	98	26	60	20	15	18	16	13	24	15	00	498	
		January.				-	1300		-	0	24	3	.0	200			53	25	25	250	16	17	21	9	32	42	14	690	
23		Districts.	Royapuram	Vashermannet		Muthialpet	Katchaleswaranpet		Seven Wells	Sowcarpet	Peddunaickenpet	Esplanade	D. L. W.	Park 10wn	Choolai	ralkam	Vepery	Egmore	Kilpauk	Nungambakam .	Tirnvafeeswarannet	Chenauk	Triplicane	al		Royapettah	-	Total	
-		enoisivid	1	24 00		9	t- 3	00	10	1	122	14.	**	01	13	-		-		23 6			98			29			-

ing previ-1000 dur-Ratio per Mean 9 years. Ratio of Deaths per. 7.0 Total. 4424222220010 Annual Form No. XVI, - Deaths registered from "INJURIES" by divisions during each month of the year 1931. 0.3 Females 0.5 Males. Total. 101 Total. Females Males. 29 21 September. August July. .auni May. 15 .lingA 83 February. 29 1 1 1 January. : Total Districts. Tiruvateeswaranpet Katchaleswaranpet Kothawal Bazaar Ammen Koil Seven Wells Sowcarpet Peddunaickenpet Trevelyan Basin Vepery Egmore Kilpauk Nungambakam Purasawalkam Washermanpet Chintadripet Mirsahibpet Royapettah Amir Mahal Korukkupet Esplanade Park Town Tondiarpet Muthialpet Triplicane Perambur Chepauk Harbour Choolai Divisions,

vious five years. Mean ratio per 1000 during pre-Ratio of Deaths per 1,000 of population. Total. Females. Total. 668 Males. December. November. 15 October. September. 27 August. July. .aun 55 May. .linqA March. February. 55 Total Districts. Muthialpet Katchaleswaranpet Kothawal Bazaar **Firuvateeswaranpet** Sowcarpet Peddunaickenpet Trevelyan Basin Esplanade Park Town Nungambakkam Chintadripet Purasawalkam Washermanpel Ammen Koil Seven Wells Mirsahibpet Royapettah Mylapore Royapuram Korukkupet Amir Mahal Tondiarpet Perambur Egmore Chepank Vepery Choolai 22222222222222222 Divisions.

Annual Form No. XVII, - Deaths registered from "CHILD BIRTH" by divisions during each month of the year 1931.

Annual Form No. XVIII. - Deaths registered from other causes by divisions during each month of the year 1931.

	Buinn	Mean rat 1,000 d previou years,	15.9	19.8	13.0	6.5	1.5.1	16.0	20.1	14.7	9-91	63.0	181	11.5	13.1	9.11	148	13.5	21 6	16.6	2 12	13.5	14.1	16.8	1.0	12.8	0.11	
	hs per lation.	Total.	20.1	16.6	6.91	10 2	15.0	12.5	18.0	16.3	14:2	6-91	17.0	13.7	15.8	15.8	15.5	15.6	0.91	16.4	20.4	16.1	17.7	20.5	19.8	15.4	16.5	
0	Ratio of deaths per	Females	19.9	15.8	0.91	128	15.7	12.5	17.4	13 2	20.5	17.1	17.8	14.0	16-3	17.3	17 +	17 6	1.07	16.0	20.2	191	19.0	21.0	20.3	15.7	16.8	
	Ratio 1000 o	Males.	20.3	17.2	15.5	6.6	7.1	12:5	9.81	18.9	14.7	8.91	16.7	13.4	15.2	144	141	136	2.01	10.71	20.3	136	16.5	20.0	19.3	13.1	16.3	
	1	Total.	441	425	1431	152	161	240	356	117	331	1 99	606	601	433	427	344	900	200	439	11-9	275	315	402	541	327	10,708	
	Total.	Females		199	_		_		_	_	_	_	_		_	_	-	_	_	_	_	_	_	_	_	_	5,150	-
		Males.	222	226	20.00	22	6.0	126	194	11	153	39	181	311	217	201	174	502	212	939	330	128	170	203	267	164	5,558	
	.1:	Decembe	38	24.0	201	19	:20	5 6	31	11	200	119	96	425	40	91	000	90	101	38.5	50	23	35	34	44	28	916	
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	.19	Septemb	66	30	35	17	==	19	30	===	24	22	96	42	34	30	27	90	07	24	39	62	17	200	39	24	183	
	2	August.	39	37	33	1	24 0	202	35	22	25 62	12	66	200	37	43	37	200	000	9 00	3	19	53	20	34	31	885	
1		luly.	34	37	m 00	120	27 0	0 2	23	13	20 00	20	20	200	26	41	77		77.0	50	9 00	133	22	31	38	19	170	
-	11	Jane.	40	33	35	30	23	250	18	-	200	35	96	45	36	36	62	200	30	20.4	52	25	34	11	200	36	920	
-	-	May.	36	22	135	22	16	27	23	9	31	19	16	43	35	35	77	400	20	200	54	19	31	44	200	35	890	
1	8	JingA.	31	35	33	16	133	15	23	6	25	56	18	199	34	52	7.0	10	16	34	7	19	23	30	35	21.	611	
-		March.	38	320	33	-	13	18	41	× :	79 70	20	98	47	33.5	22	0 -	000	000	35	8.4	24	29	77	63	56	968	
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																											Total	Digital and
	2 354 St 001 2	Districts.	Royapuram	Washrimanpet	Korukkupet	Muthialpet	Katchaleswaranpet	Ammen Koil	Seven Wells	Sowcarpet	Trevelvan Basin	Esplanade	Park Town	-			-	Kilnent		-						Mylapore	Y Y W W LONG TO	The state of the s
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35.8 13.5 36.2 42.3 50.5 42.4 Ratio per 1,000. 45.0 Total Deaths. Annual Form No. XIX .- Comparing the deaths from some of the principal diseases during the year with the deaths during the preceding 5 years. 16-9 22415 19-422839 14-023622 16-5 23162 18-9 23776 22364 17-2|26715 Deaths. 16.2 Ratio per 1,000. All other causes. 9372 0866 9116 10708 8589 8915 10258 Deaths. 9.0 0.5 1'000'I 9.0 1-0 0.7 0.7 9.0 Deaths from child birth. Ratio per 329 293 328 3.2 36¢ 66 Deaths. 1,000,1 0.5 0.5 7.0 4.0 70 0.5 0.5 Injuries. Ratio per 8-5,245 243 13-0262 242 9-9 249 8-9 275 9-6 228 Deaths. 9.5 10.1 1.000 Other Respira-tory diseases. Ratio per 4932 6819 5485 5035 5743 Respiratory Diseases. 5324 5255 Deaths. Tuber-culosis F 1,000. 5.6 1.3 3.6 3.5 2.1 3.1 1. Ratio per 924 1381 843 1619 1649 1354 1361 Deaths. 0-03 1,000,1 0.3 0.5 1.0 70 0.3 0.3 Pulmo-Tuber-culosis other than Ratio per and 134 177 162 163 177 151 17 Deaths. 1,000,1 tery and Diar-5.3 7.3 6.5 4.5 1.1 5.9 80 Dysenrhota Ratio per 3449 2746 3263 3056 3867 3931 3127 Deaths. 1,000,1 2.3 25.33 -6.3 3.0 3.7 2.7 Other fevers. Katio per 1095 1507 1748 1555 1191 1731 1961 Deaths. 1,000,1 0.3 Enteric Fever. 0.5 0.3 0.5 0.5 0.3 0.3 Ratio per 150 164 166 52 177 Deaths. 30 26 Malaria. 1,000. 26 2.6 3.0 7.0 1.3 0.5 9.1 Ratio per 1342 1054 1367 1539 283 217 681 Deaths. Plague. T'000' : : 1 1 ŧ 1 : Ratio per : : : ŧ 1 : : Deaths. 60-0 0-03 0.03 Measles. 0.0 1,600. -5 Ratio per 5 33 59 16 34 Deaths. 2 68 90-0 0.04 1,000,1 0.3 Small-0.5 1:0 3 70 Pox. Ratio per 09 35 251 506 0.08|188 207 24 Deaths. 0.03 1,000. Cholera. 0.5 0.1 7.0 1.3 0.5 Ratio per 512 98 108 43 5 years ... 275 153 16 Deaths. the last Mean of 1926 1927 1928 1929 1930 1931

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Total.

December. Annual Form No. XX-Table of deaths for 1931 arranged in accordance with the international list (Third Revision 1920) as adopted for ()ctober, September. August, July. 'aun[use in England and Wales, Scotland and Northern Ireland. May. .linqA March. February. January. Cancer of the buccal cavity
" " Pharynx, Liver Stomach & Annexia.
" " Intestine & Rectum ... II. GENERAL DISEASES, (Not included in I). Intestine and Peritoneum Tuberculosis of the Respiratory Systsm I. INFECTIOUS DISEASES other organs lymphatic System Causes of death. female genital organs Breast Syphilis Congeintal Syphilis Purulent Infection-Whooping Cough Diphtheria Influenza Cachexia Enteric Fever Malaria Leprosy Erysipelas Chicken-pox Gonorrhoea Septicaemia Pyaemia Sapraemia Small-pox Dysentery Kala Azar Measles Mumrs Tetanus Rabies Classification 88 9 44644 Infectious Disceases. General Diseases.

other or unspecified organs

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10 日	70–1 Cerebral abscess 74–a (1) Cerebral laemorrhage 75 (a) Paralysis 77 Other forms of insanity 77 Other forms of insanity 77 Disteribensy 69 Infantile convulsion (under 5 years of age) 82 (1) Hysteria 69 Infantile convulsion (under 5 years of age) 62 Neuralgia 63 Neuritis 65 (2) Otitis 66 (2) Otitis 66 (2) Otitis 68 (2) Otitis 67 SYSTEM.	88 (2) Endocarditis (3) Myocarditis
	organs.	tory system.
General Diseases-contd.	Diseases of Diseases of the Nervous	Diseases of the Circula-

Total.

36 50 3 4 5 11

224 457 109 1,304 27 27 245 118 December. Annual Form No. XX—Table of deaths for 1931 arranged in accordance with the international list (Third Revision 1920) as adopted for use in England and Wales, Scotland and Northern Ireland.—confd. 04:50-40 000 :500000 September. Su :u : 110 August. July. 23 49 390 141 Jane. :400000 May. April. March. 20 10 1 --- :00 0A February. 23 350 350 82 82 82 January. :83 IV, DISEASES OF THE CIRCULATORY Haemorrhage without stated cause
V. DISEASES OF THE RESPIRATORY Emphysema VI. DISEASES OF THE DIGESTIVE Diseases of the Lymphatic System Pneumonia not otherwise defined Causes of death. SYSTEM-contd SYSTEM Other diseases of Stomach.—Gastritis Heart disease undefined Diseases of Aesophagus Diarrhoea and Enteritis Dyspepsia Dilatation of Stomach Broncho-Pneumonia Infantile Diarrhoea Gastro-Enteritis Chronic Bronchitis Lobar Pneumonia Diseases of Veins Ulcer of Stomach Acute Bronchitis Arterio Sclerosis Pneumo Thorax Ulcer duodenum Cardiac Dropsy Odeura of Lung Haemorrhoids Aneeirysem Stomatitis **Fonsillitis** Paratitis Pleurisy Asthma Classification (6) 06 (E) (G) 109 (1) 110 111 (a) (b) <u>E</u> 3 113–114 (2) (8) 2 3 001 02 105 Diseases of the Circulatory System—Contd. Diseases of the Respiratory System. Diseases of the Digestive System.

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Ankylostomiasis Guinea Worm Undefined Intestinal Parasites Appendicitis Hernia Intestinal Obstruction Constipation Fisula in ano Ischio-Rectal abscess Hepatitis Hydatid Cyst Cirrhosis of Liver Billiary Cirrhosis Ascites Enlargement of Liver Jaundice Hepatic Abscess Peritonitis Other Diseases of Digestive Sy VII, NON-VENEREAL DIS GENITO-URINARY Cartonitis Chronic Nephritis Chronic Nephritis Calculi of the Urinary Passag Calculi of the Urinary Passag Calculi of the Urethra: Extravasation of Urine Non-Venereal diseases of mall Hydrocele Orchitis Other diseases of female genil Amenorrhoea Dysmenorrhoea Dysmenorrhoea Endo-metritis Other diseases of female genil Amenorrhoea Dysmenorrhoea Mis Carriage Puerperal Haemorrhage Mis Carriage Puerperal Haemorrhage """
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Puer- Peral State. Diseases of the Genito-Utinary Diseases of the Digestive System—Confd.

Total.

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2653 December. Annual Form No. XX—Table of deaths for 1981 arranged in accordance with the International list (Third Revision 1920) as adopted for use in England and Wales, Scotland and Northern Ireland.—Contd. ------November. 1111 :--G : 8-September, August. -60 -01 61 63 : 01 : :660 July. :--3:0 2 2 2 2 2 01 : : : ŧ 8 .aun[654 :: May. 17 15 17 1 S 45 S April March. 944454 : : 64 --:: H 184 20: : : : : : : : : : A February. 8 1 1 10 14 1 883554 :- : :27% 124 8 January. 11 19 11 11 4 8 8 8 8 1 1 1 1 Eczema
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X. DISEASES OF BONES AND ORGANS Puerperal eclampsia and convulsions
Toxaemia of Pregnancy ...
IX. DISEASES OF SKIN AND CELLULAR
TISSUE. XII. DISEASES OF EARLY INFANCY. XI. CONGENITAL MALFORMATION VIII PUER PERAL STATE-contd. OF LCCOMOTION. Causes of death Other accidents of child-birth. 1 : : Sudden death after delivery Post Partum Haemorrhage Congenital debility Inanition Malnutrition Marasmus Carbuncle and Boil Diseases of Bones Diseases of Joints Arthritis Synovitis Prolonged labour Rupture uterus Imperforate Anus Puerperal sepsis Difficult labour Cancrum oris Speira bifida Child birth Gangrene Cellulitis Abscess 146 147 (2) 148 三國一國王 159 (8) 160 (1) 3 Classification No. 152 145 154 155 ton, Diseases of early infancy. Diseases of Skin and Cellular Tissue. Renital Malfor mation. Puerperal State .-- Could. Diseases of Bones & organs CO:-

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ar to early infancy.— OLD AGE.		us animals.— instruments ans ccified of accidental violence	ted or ill-defined ar rs d over in in
eculi ttoru III.	Suicide by solid or liquid poisons Suicide by solid or liquid poisons " by drowning " by fire arms Food poisoning Food poisoning	Scorpion sting Scorpion sting Accidental burns "" Drowning " Injury " Rallway " Rallway " Tram Car Star vation Excessive heat Sun-stroke Electricity, shock Homicide by piercing instruments ", by other means Fracture cause not specified Other unstated forms of accidenta Concussion Contussion	Hanging legal execution XV. ILL-DEFINED Sudden death Causes of death unstated or if Heart failure Coma Debility under one year age 10–50 years Dentition Inantition age 10 and over Natural Causes Pyrexia uncertain origin Collapse Collapse Death after operation
(2) 162 (2) 164 (2)	165–166 169 169 170 174	176 188 184 198 198 198 203 203	204 205 (Z) (Z) (S)
Discases Id of early c. Infancy. Contd.		External Causes.	Ill-defined diseases.

names	Still Births.	Deaths.	1172	1136	1274	1312	1274	1335	1105	1258	1321	1287	1260	1318
10 - C - C - C - C - C - C - C - C - C -	ar S.	Death-rate.	83.3	6.62	1:001	6.62	93.0	112.9	100.0	92.3	118.0	94.0	88.1	50-3
	Children between 1 and 5 year	Deaths.	3654	3273	4113	3272	3810	4656	4120	3806	4864	3875	2633	3767
		Death-rate.	279.3	281-9	308.0	254.0	26:1	278.8	279.3	237.6	280.8	25.6.6	243-9	218.3
magar :	Infantile mortality under 1 year.	Desths.	5976	5468	6999	5837	6148	6431	6145	5888	6806	5933	6258	6391
years.	tory es.	Death-rate,	8.5	5.0	9.3	8.1	9.1	12.1	12.3	12.9	16.3	12.7	12.0	8.9
ast 12 y	Respiratory diseases.	Deaths.	4128	1467	4911	4610	5598	6416	6470	3816	1698	6695	6331	5743
the p	-	Death-rate.	9.6	6.1	6.1	7.2	0.2	9.2	7.3	6.2	1.4	5.9	5.8	67.
TABLE—A. deaths from some of the principal diseases during the past 12	Dysentery and Diarrhoea.	Des(ps-	4671	4149	4167	3778	3700	4631	3867	3263	3927	3127	3056	2746
iseases	Plague.	Death-rate.	0.03	900-0	0.002	20000	:	:	:	:	:	:	:	:
palo	Pi	Deaths.	- 00	63	7	-		_ i	:	.:	:	•		1
inci	ous ses.	Death-rate.	8.60	1.3	3.	0.7	1.9	1.3	1.1	i	2.0	1.2	8.0	29
TABLE—A.	Other Infectious diseases.	Deaths.	1995	708	219	363	982	682	565	:	1052	612	411	1347
rabi	L 95	Death-rate.	214	65.0	5.54	1.5	1.3	2.0	2.7	1.5	3.5	9.9	3-9	2.7
rom so	Other Fevers.	Deaths.	1780	1475	1325	691	189	1039	1343	1259	1732	1861	2097	1748
ths f	ria.	Death-rate.	1:1	1.3	*	1.5	1.8	2.2	9.8	5.6	3.0	1.3	0.5	0.4
****	Malaria	Deaths.	260	652	763	753	126	198	1342	1367	1599	681	283	277
ent	100	Desth-rate.	0.5	1.5	7	0.3	F-0	14	0.1	32 0.06	6.5	1.0	0.1	10-0
Staem	Small- Pox.	Deaths.	103	180	1121	131	197	763	09	35	251	206	188	24
Comparative Statement of	sra.	Death-rate.	0.04	0-3	-63	0.3	F-0	7.0	6-5	10	1.3	0.03	80.0	0-5
ıpara	Cholera	Deaths.	22	139	17	21	97	203	86	512	108	10	13	153
Con		Death-rate.	41.3	38.5	19.7	37.9	41-7	47.3	45.0	45.3	20.9	45.4	43.2	35.8
	Deaths	No. of Deaths registered exclu- sive of Still Births.	21 418	20,263	22,475	19,933	21,960	25,000	23,776	22,364	26,715	22,415	22,839	23,162
		Birth-rate.	41.3	36.4	41.1	43.6	44.2	13.6	41.6	46.8	44.9	43.7	48.5	39-8
100	Births.	No. of Births Registered exclusive of Still Births	21,396	19,187	21,650	22,975	23,275	23,070	22,000	21,760	23,729	23,124	25,662	25,738
		Year.	1920	1951	1932	1923	1924	1925	1926	1927	1928	1929	1930	1931

B.	
1	
H	
BI	
5	

Rainfall.

***	Quarter. Total.	October to December.	1	20.66 31.42	19-88	31-69	27-64	55.05	
	3rd Quarter.	July to September.	Inches.	9-02	7-80	16-15	13.72	8-71	
	2nd Quarter.	April to June.	Inches.	09-0	4-17	0.33	2.17	11-24	24.0
	lst Quarter.	January to March.	Inches.	11-1	0.55	3.30	8.29	3-69	
	Vest			1926	1927	1928	6261	1930	02-01

TABLE-C.

Table of Births, Deaths and Infantile Death-rates for different Communities in the City of Madras for 1930 and 1931.

1	Death-rate.		104.4	133-2	179-3	249-3	249-7	:	243-9
1	Infantile	100	1	-	-	24	21		01
-	Infantile Deaths.		1	20	229	5,241	131	4:	6,258
	Death-rate.		8-4	24.0	26.6	36.0	39.5	0.3	35.3
1930.	Total No. of Deaths.	- Strike	30	256	1,062	18,724	2,766	1	22,839
	Birth-rate.		18.7	34.5	32.0	7-04	41.8	0.3	39.6
	Total No. of Births.	1075	19	368	1,277	21,021	2,928	Special 1	25,669
274	Infantile Death-rate.		73-1	7-66	186.2	254.4	257.0	1	248-3
	Infantile Deaths.	-	4	38	254	5,347	748	:	168,9
	Desth-rate.		2.9	25.0	8-92	36.5	39-9	1.0	35.6
1931,	Total No. of Deaths.		24	266	1,069	19,008	2,792	8	23,162
	Birth-rate.		13.4	35.8	34.5	40-4	416	0-3	39.8
	Total No. of Births.		87	381	1,364	21,024	2,910	-	25,738
snsus	Population ac ing to the c .1891 to		3,581	10,657	39,884	5,20,176	10,031	2,901	6,47,280
100		19.16	:	:	:	:	:		-
	Race or Caste.		Europeans	Anglo Indians	Indian Christians	Hindus	Mohamadans	Others	Total

TABLE-D.

Table of Birth and Death rates of principal Sub-divisions of the Hindu Community for 1930 and 1931.

No. of Contract of				19	1931	No.	70	19	1930	***
Name of Community.		Population.	Total Births,	Birth Rafe,	Total Deaths.	Death Rate.	Total Births.	Birth Rate.	Total Deaths.	Death Rate.
Brahmins	:	58,761	1,819	31-0	1,201	20.4	1,750	36.3	1,385	28.1
Chetties	-	37,949	1,446	38.1	1,347	35.5	1,964	0.79	1,665	45.8
Vellalah or Mudaliars	:	86,716	2,905	33.5	2,822	32.5	2,676	38.4	2,965	42.5
Balijah or Naidus	-	60,263	2,077	34.5	2,030	33.7	2,092	41.9	2,224	44.5
Vannia or Naickers		69,620	2,965	42.6	2,827	42.0	2,553	50.7	2,565	6-09
Adi-Dravidas	:	13,701	3,065	41.6	3,182	43.5	3,195	54.4	2,641	45.0
Patnavars	:	11,309	375	33.2	535	47.3	181	41.5	478	45.7
Yadaval or Idayaıs	:	17,022	819	48-1	735	43.2	783	51-1	826	24.0
Visvakarma Brahmin or Kammalars	· · ·	15,670	713	45.5	623	39.8	689	45.5	258	41.0

TABLE-E.

Table of Births, Deaths and Infantile Death-rates by months for 1920 and 1931.

					1		1931.	1	72.	10.3	12	60	1920.	4	1
	Months.			Total No. of Births.	Birth rate.	Total No. of Deaths	Death rate.	Infan- tile Deaths	Infantile Death rate on 1060 live births.	Total No. of Births.	Birth rate.	Total No. of Deaths.	Death rate.	Infan- tile Deaths	Infantile Death rate on 1000 live births.
January			-:	1,902	35.3	2,841	52.7	135	386-4	2,100	38.9	2,064	38.3	527	251-0
February	:		:	1,569	29-1	2,141	37.7	492	313-6	1,690	31.3	1,711	31.7	418	265-1
March	:		:	2,100	38-9	1,944	36-0	482	229-5	2,013	37.3	1,940	36-0	471	234.0
April			:	2,179	10.4	1,697	31.5	440	6-102	2,195	40.7	1,777	82.9	111	9.112
May	;		:	2,371	44.0	2,055	38.1	577	243-4	2,216	41-1	1,865	9.18	487	219-8
June	:		:	2,252	8-11-8	2,276	42.5	578	256-7	2,093	38.8	1,741	32.3	521	248.9
July	:		:	2,887	44.3	1,629	30-2	490	205-3	2,059	38-2	1,790	33.5	487	236.5
August	:		:	2,188	9.04	1,861	34.5	599	273-8	2,178	4.04	1,661	30-8	425	195-1
September	:		:	2,071	38.4	1,588	29.4	444	214-4	2,257	41.8	1,599	9-62	440	195.0
October	:		-:	2,274	42.3	1,609	8-62	435	191-3	2,304	42.7	1,673	31.0	493	214.0
November			:	2,233	41.4	1,662	30.8	499	223.5	2,266	45.0	2,389	44.3	111	342.4
December	-		:	2,212	41.0	1,859	34.5	620	280:3	2,291	42.2	2,629	18.4	711	310-3
		Total		25,738	39-8	23,162	35.8	6,391	248-3	25,662	39.6	22,839	35.3	6,258	213.9

TABLE-F.

TABLE-F.

Ratio of deaths among Children under one year of age per 1000 Live Birth registered in each division for 1930 and 1931.

	19	031.	1	930.
Divisions.	Infantile Mortality.	Infantile Death-rates.	Infantile Mortality.	Infantile. Death-rates.
9 3	208 3.5	200 2 1		
eu		200.4	999	017.0
1	281	322-6	233	247-9
2 3	301	232.3	282	227-1
	273	247-7	267	235-2
4	267	300-3	270	283-3
5	97	366-0	93	317-1
6	106	239.8	109	259-5
7 8	104	229-1	104	212-7
	64	357-5	42	241.4
9	168	213-2	192	250-6
10	182	245-3	185	248-3
	53	286.5	55	288-0
12	214	245.1	226	263-7
13	195	279-4	196	302-0
14	33	287.0	39	357-8
- 15	167	259.3	159	284-4
16	430	276-0	410	233-2
17	303	244.4	325	274-0
18	281	265-1	272	243.3
19	203	260-3	202	234.6
20	265	178-0	304	211.4
21	183	217-9	162	198-0
22	227	227-9	- 194	204.9
23	293	257-2	274	228.5
24	325	207-9	355	259.3
25	167	207.5	167	223.6
26	182	241-1	171	249.3
27	225	278-5	231	269-2
28	324	272.3	294	260-9
29	293	233.1	261	208.5
30	185	259-1	184	237-1
-	6,391	248-3	6,258	243-9

TABLE-G.

Table of Infantile Mortality by months in the year 1931.

	<u> </u>				39									
	Total of 1930.	527	448	471	.471	487	521	487	425	440	493	777	111	6,258
	Total.	735	492	482	440	577	478	490	299	###	435	499	620	168'9
Total of 1931.	Females.	336	232	223	192	278	274	216	290	002	190	227	294	2,952
To	Males.	399	260	259	248	586	304	274	808	244	245	272	326	8,439
*səsnı	All other ca	158	911	67	89	112	68	08	98	82	64	65	95	1,078
-sås	Respiratory tem.	221	150	177	129	171	184	127	183	114	126	142	186	1,910
stem.	Netvous sy	49	39	35	24	27	99	38	36	24	37	92	47	464
	Debility.	25	6	14	113	11	12	90	17	12	13	16	20	188
Birth.	Premature	144	108	135	131	128	128	132	165	137	129	166	111	1,670
pue "	Dysentery Diarrhoea	73	65	37	52	84	19	46	06	21	17	32	45	199
*81	Огрег гечет	09	21	17	23	37	84	45	32	28	24	23	23	188
	Malaria.	00	:	:	:	:	:	61	:	:	-	:		9
	Measles.	:	:	:	:	:	:	:		:	:			:
1	Small-pox.	61	:	:	:	-	:	:	:	:	***	:	:	3
		:	:	:	:	:	:	:	:	:	:	:	:	:
														Total
	1931	:		:	:	:	:	:	:	:	:	:		
		January	February	March	April	May	June	July	August	September	October	November	December	

TABLE-H.

Table of percentage of Infantile Deaths from Principal causes in the year 1931,

Ratio Total Ratio Total Ratio Total Ratio Total Ratio Total Ratio Total	0.63 965 68.05 5 0.36 102 7.19 91 6.12 241 17.00 1418 22:19	4.55 422 48.01 13 1.48 119 13.54 102 11.60 153 17.41 879 13.75	3 105 9-67 138 12-71 87 8-01 386 35-54 131 92-06 1086 16-99	127 10-36 18 1-47 99 8-08 486 89-64 210 17-12 1226 19-18	9 0.95 11 1.16 30 3.15 536 56.36 121 12.72 951 14.88	42 5-05 3 0-36 57 6-86 309 38-39 222 26-71 831 13-00	1670 26-13 188 2-94 494 7-73 1910 29-89 1077 16-85 6391
Ration Total Ration Total Ration Total Ration Total Ration Total Ration Total	965 68-05 5 0-36 102 7-19 91 6-12 241 17-03	422 48-01 13 1-48 119 13-54 102 11-60 153 17-41	105 9-67 138 12-71 87 8-01 386 35-54 131 92-06	10-36 18 1-47 99 8-08 486 39-64 210 17-12	0.95 11 1.16 30 3.15 536 56.36 121 12.72	5-05 3 0-36 57 6-86 309 38-39 222 26-71	26-13 188 2-94 494 7-73 1910 29-89 1077 16-85
Ration Total Ration Total Ration Total Ration Ration Total Ration	965 68-05 5 0-36 102 7-19 91 6-12 241	422 48.01 13 1.48 119 13.54 102 11.60 153	105 9-67 138 12-71 87 8-01 386 35-54 131	10-36 18 1-47 99 8-08 486 89-64 210	0.95 11 1.16 30 3.15 536 56.36 121	5-05 3 0-36 57 6-86 309 38-39 222	26-13 188 2-94 494 7-73 1910 29-89
Ration Total Ration Total Total Ration Total Ration Total Ration Total	965 68-05 5 0-36 102 7-19 91 6-12	422 48.01 13 1.48 119 13.54 102 11.60	105 9.67 138 12.71 87 8.01 386 35.54	10-36 18 1-47 99 8-08 486 89-64	0.95 11 1.16 30 3.15 536 56.36	5-05 3 0-36 57 6-86 309 38-39	26-13 188 2-94 494 7-73 1910 29-89
Total Total Total Total Ratio Total Ratio	965 68-05 5 0-36 102 7-19 91 6-12	422 48-01 13 1-48 119 13-54 102	105 9.67 138 12.71 87 8.01 386 35.54	10-36 18 1-47 99 8-08 486 89-64	0.95 11 1.16 30 3.15 536 56.36	5-05 3 0-36 57 6-86 309 38-39	26-13 188 2-94 494 7-73 1910 29-89
Ratic Total Ratic Total Total Ratic	965 68-05 5 0-36 102 7-19	422 48.01 13 1.48 119 13.54	105 9-67 138 12-71 87 8-01	10-36 18 1-47 99 8-08	0.95 11 1.16 30 3.15	5-05 3 0-36 57 6-86	26-13 188 2-94 494 7-73 1910
Total Total Total Total Total	965 68-05 5 0-36 102	422 48.01 13 1.48 119 13.54	105 9-67 138 12-71 87 8-01	10-36 18 1-47 99 8-08	0.95 11 1.16 30 3.15	5-05 3 0-36 57 6-86	26-13 188 2-94 494
Ratic Total Ratic Total	965 68-05 5 0-35	422 48-01 13 1-48	105 9-67 138 12-71	10-36 18 1-47	0.95 11 1.16	5-05 3 0-36	26-13 188
Ratic Total Ratic	965 68-05 5	422 48-01 13 1-48	105 9-67 138	10-36 18	0.95 11	5-05 3	26-13 188
Ratio Total	965 68-05	422 48-01	105 9-67 138	10-36	0-95	20-5	26-13
Patio Total	965	422	105 9-67				26-13
Ratio	100			127	6	45	1670
	0-63	22					
NOT THE REAL PROPERTY.	- 100	4	14.36	14-11	16.40	15-28	10-34
Total	6	40	156	173	156	127	199
Ratio	0-35	3-41	7-55	9-05	9.04	8.06	96.9
Total	70	30	88	111	86	19	0.09 381
Ratio	- 1	:	:	:	0-21	0.48	60-0
Total	:	:	:	:	63	4	9
Ratio		:	:	M :0		:	:
Total	:		:	13	1	-	1
Ratio	:	:	60.0	0-3	:	_	3 0.05
Total		. :	-	HILL IS	:		
	r 7 days	s and under I month	nth and under nonths	nths and under nonths		nouths and under 1 year.	Total
i e	Hat Tot Rat	: Tot : Rat : Tot	Tot Tot	Д Тот Нат Тот Тот Тот Тот Тот Тот Тот Тот Тот То	тот : : : : : : : : : : : : : : : : : :	. Тот	d under 1 year Total and under 1 year

VACCINATION STATEMENT No. I.

Statement showing the number of births (Divisional and Hospital) verified during the calendar year 1931 and the number of Vaccination of Infants under one year of age.

2 -00 pt 100 2	exclu	Births ding births.	Sti			s under year.	inf	ber of ants iving.	infants	ber of s vacci- under year.	Percentage of vaccination to births registered.		
Division.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	Divisional.	Hospital.	
1 2 3 4 5 6 7 7 S	592 752 772 700 230 366 355	327 533 307 261 64 98 126	3 28 4 8 10 15	12 86 5 15 7 5 18	75 135 119 98 40 65 58	34 47 40 27 -7 14 20	517 617 653 502 190 301 297	293 486 267 234 57 84 106	312 375 358 349 81 140 146	170 118 56 85 22 33 24	52·7 49·8 46·7 49·8 35·2 38·2 41·1	52·0 22·1 18·2 32·5 34·3 33·6 19·0	
8 9 10 11 12 13 14 15 16	131 565 531 135 680 510 82 495 1,337	42 223 218 36 173 176 27 107 304	4 16 9 7 20 23 3 15 28	3 11 13 2 12 11 4 11 30	37 95 122 33 129 106 20 80 166	9 50 37 6 39 38 4 17 33	94 470 409 102 551 404 62 415 1,171	33 173 181 30 134 138 23 90 271	57 279 254 37 313 222 46 170 989	16 76 86 12 57 59 13 33 187	43·5 49·3 47·7 27·4 46·0 43·5 56·1 31·4 74·0	38·1 34·0 39·4 33·3 33·0 33·5 48·1 30·9 61·5	
17 18 19 20 21 22 23 24	974 851 500 591 554 680 778 1,091	242 285 355 925 301 317 433 519	31 23 23 16 21 21 8 41	14 18 11 93 13 16 18 24	184 160 84 111 97 110 155 88	41 44 53 96 36 42 69 47	790 691 416 480 457 570 623 1,003	261 241 302 829 265 275 364 472	f 08 488 295 324 310 402 413 845	104 110 187 226 105 142 116 118	62:4 57:3 59:0 54:8 58:9 59:1 53:1 77:5	43·0 38·6 52·7 24·4 34·8 45·0 26·8 22·7	
25 26 27 28 29 30	477 549 573 797 948 599	366 170 247 432 345 139	2 13 8 31 18 12	12 10 14 53 18 20	72 116 76 163 150 135	61 33 39 91 55 44	405 433 497 634 798 464	305 137 208 341 290 95	276 267 440 369 600 309	78 54 50 114 112 37	57.8 48.6 76.8 46.3 63.3 51.6	22·7 21·3 31·8 20·2 26·4 32·5 26·6	
Total,	18,195	8,098	474	579	3,079	1,173	15,116	6,925	10,074	2,600	55-4	32-1	

		po'n ti	89			
g particolar	Number of Children in column 5 whose Vacci- nation was postponed beyond one beyond one year of age for medical reasons.	00	692	7.71	1062	265
one year of ag	Percentage of column 6 to column 5.	7	1.98	1-6-1	80.8	83.6
ceinated under	Number of Children in column 5 who were vaccina- ted before they attained the age of one year.	9	8,617	2010	9,672	10,074
No. II. r of Infants Va	Number of Children in column 2 who were available for Vaccination (column 2 minus columns) 3 and 4).	2	121,01	4,148	11,971	12,057 5,153
TATEMENT and the number	Number of Children in column 2 who left the City before attain- ing the age of one year without being vaccinated,	4	2,823	1,445	3,052	3,059
VACCINATION STATEMENT No. II.	Number of children in column 2 who died before attaining the age of one year without being vaccinated.	23	3,408	908	2,285	3,073
VA ber of Births v	Total number of Births excluding Still Births	21	16,352	6,339	18,308	18,195
VACCINATION STATEMENT No. II. Statement showing the number of Births verified in 1931 and the number of Infants Vaccinated under one year of age.				1		I IV
Statement	Year.	1 3 4 4 5	Divisional	Hospital	1930 Divisional Hospital	1931 Divisional Hospital

			of 1931.			Total N	lo. of p	persons	y each Vacci-		and the	Primary
	Districts.		to the census	0	Jrs.	Va	ceinate	d.	persons Vaccinated by		and see you	Total
Divisions.			Population according to the census of 1931.	Number of Depots.	Number of Vaccinators.	Males.	Females.	Total.	Average No. of perso nator.	Males.	Females.	Total.
1	2		3	. 4	5	6	7	8	9	10	11	12
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Royapuram Tondiarpet Washermanpet Korukkupet Harbour Muthialpet Katchaleswaranpet Kothawal Bazaar Ammen Kovil Seven Wells Sowcarpet Peddunaickenpet Trevelyan Basin Esplanade Park Town Perambur Choolai Purasawalkam Vepery Egmore Kilpauk Nungambakkam Chintadripet Tiruvateeswaranpet Chepauk Triplicane Amir Mahal Mirsahibpet Royapettah Mylapore		25,911 25,663 25,538 8,704 14,257 12,707 6,550 19,202 20,294 7,194 21,547 18,916 3,906 17,183 43,817 27,488 27,054 22,137 29,385 24,334 27,238 26,845 31,371 17,092 19,514	15	49	717 928 863 787 269 272 454 136 517 559 111 488 580 123 435 2,082 876 662 1,035 842 936 61,051 811 791 435 429 446 402 1,294 414	701 761 613 635 120 221 124 501 503 375 97 379 1,410 716 667 1,061 699 683 773 610 662 356 437 415 603 1,022 606	1,418 1,689 1,476 1,422 389 493 891 260 1,018 1,064 251 1,051 220 814 3,492 1,592 1,329 2,096 1,541 1,619 1,824 1,453 791 886 861 1,005 2,316 1,020	748	538 709 748 561 167 239 246 121 392 345 99 338 366 84 301 1,260 578 553 479 425 573 621 627 356 365 374 768 398	493 696 608 567 110 215 291 124 474 468 136 533 313 97 310 1,139 577 457 565 601 476 580 591 600 335 362 336 412 716 394	1,031 1,405 1,356 1,128 277 454 537 245 866 813 235 871 679 181 611 2,399 1,245 1,035 1,118 1,080 901 1,153 1,212 1,227 691 727 721 786 1,484 792
	Tot	al	6,47,230	15	49	19,745	16,892	36,637		13,€84	13,576	27,260

The late of the	Vacces	sful.		The last to the	The state of the s	Re-V	Re-Vaccination. Percentage of Successful cases in which the results were known. Percentage of Successful cases in which the results were known. Average annual No. of persons successfully Vaccinated during the previous five years.			annual No. of persons successfully Vaccinated during the previous		rage nual o, of aths om nall- ox ring pre- ous ive ars.	Average cost of each Successful Vaccination,			
671 319 37 1,027 2 387 159 71 99·8 50·3 54·0 1,259 57·4 16 0·7 955 414 36 1,405 284 55 110 100·0 31·6 56·3 1,322 51·0 7 0·3 1,029 260 65 1,354 120 37 14 99·9 34·9 54·2 1,364 50·8 7 0·3 7 62 306 58 1,126 294 150 29 99·8 56·6 50·0 1,173 45·9 10 0·4 123 141 7 271 4 112 19 49 99·3 30·2 33·3 371 42·6 3 6·3 333 119 452 39 3 16 99·6 13·0 31·9 599 42·0 3 0·2 44·5 82 8 535 354 66 213 99·6 48·9 47·5 579 42·0 3 0·2 44·5 82 8 535 152 36 16 99·9 26·5 46·9 881 45·9 8 0·4 529 278 4 811 251 59 11 93·8 24·6 42·9 799 89·4 4 0·2 130 102 1 233 16 3 99·1 18·8 32·8 26·4 36·7 3 9·4 583 280 6 869 180 43 13 99·8 25·7 42·3 917 42·6 7 0·3 435 214 10 659 8 276 33 203 98·2 45·2 36·6 684 36·2 8 0·4 18 60 2 18·0 39 2 30 99·4 22·2 46·6 187 47·9 1 0·3 359 231 3 593 10 203 60 81 98·7 42·2 38·0 599 34·9 7 0·4 18·6 10 60 2 18·0 39 2 30 99·4 22·2 46·6 187 47·9 1 0·3 359 231 3 593 10 203 60 81 98·7 49·2 38·0 599 34·9 7 0·4 16·6 10 60 2 18·0 39 2 30 99·4 22·2 46·6 187 47·9 1 0·3 359 231 3 593 10 203 60 81 98·7 49·2 38·0 599 34·9 7 0·4 16·6 10 60 2 18·0 39 1 18·8 31000 34·3 49·6 1.325 48·2 10 0·4 835 199 1,034 294 95 99·9 32·3 41·7 1,264 46·7 10 0·4 835 199 1,034 294 95 99·9 32·3 41·7 1,264 46·7 10 0·4 835 199 1,034 294 95 99·9 32·3 41·7 1,264 46·7 10 0·4 835 199 1,115 978 175 6 99·7 18·0 58·3 1,014 45·8 6 0·3 842 240 16 1,078 461 103 220 99·8 42·7 40·2 1,176 40·0 2 0·0 10 40 84 298 1,115 978 175 6 99·7 18·0 58·3 1,014 45·8 6 0·3 842 240 16 1,078 461 103 220 99·8 42·7 40·2 1,176 40·0 2 0·0 10 40 84 298 1,115 978 175 6 99·7 18·0 58·3 1,014 45·8 6 0·3 842 240 16 1,078 461 103 220 99·8 42·7 40·2 1,176 40·0 2 0·0 10 40 40 40 40 40 40 40 40 40 40 40 40 40	Under one year.	One year and under 6 years.	Six years & above.	Total.	Unknown.	Total,	Successful.	Unknown.	Primary.	Re-Vaccinations.	Persons Successfully Population.	Number.	90	Number.		Average cost of each
955	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
955 484 33 1,472 8 832 175 37 99.7 22.0 49.6 1,140 34.3 8 0.2 15 18 239 9 766 12 228 60 15 98.2 28.2 38.8 745 35.0 7 0.3	955 1,029 762 123 333 445 120 583 529 130 583 435 1,650 1,022 822 800 844 1,022 953 497 415 570 617 955	414 260 306 141 119 82 121 279 278 102 280 214 60 231 736 237 199 93 240 99 298 178 247 173 277 131 159 484	36 65 58 7 8 1 3 4 4 1 6 6 10 2 2 3 5 16 16 7 12 3 9 8 33	1,405 1,354 1,126 271 452 535 242 865 811 233 869 659 180 593 2,391 1,245 1,034 1,115 1,078 899 1,207 1,207 1,212 673 701 709 776 1,472	**************************************	284 120 294 112 39 354 15 152 251 16 180 276 39 203 347 294 978 461 718 671 209 226 100 139 140 219 832	55 37 150 19 3 69 3 43 33 2 60 154 118 95 175 103 111 144 45 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	110 14 29 49 16 213 14 16 11 13 203 30 81 44 3 66 220 14 66 110 154 97 137 128 37	100·0 99·9 99·8 99·6 99·6 99·6 99·9 99·8 98·2 99·7 100·0 99·9 99·7 99·8 99·6 99·6 99·6 98·9 99·6 98·9 99·7 98·7 98·7 98·7 98·7 98·7	31·6 34·9 56·6 30·2 13·0 48·9 26·5 24·6 18·8 25·7 45·2 22·2 49·2 14·7 34·3 32·3 18·0 42·7 15·8 23·8 45·5 1·4 100·0 50·0 28·2	56·3 54·2 50·0 33·3 31·9 47·5 36·9 42·9 32·8 42·3 36·6 46·6 38·0 58·1 49·6 41·7 58·3 40·2 41·5 47·2 46·6 38·7 39·6 36·0 36·1 31·9 36·9 36·9 41·5 38·7 39·6 36·0 36·1 38·6 38·7 38·6 38·6 38·7 38·6 38·6 38·7 38·6 38·7 38·6 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7 38·6 38·7	1,322 1,304 1,173 371 599 579 522 881 799 264 917 684 187 599 2,350 1,325 1,264 1,014 1,176 869 1,159 1,266 1,235 658 668 752 979 1,140 745	51·0 50·8 45·9 42·6 42·6 42·6 79·7 42·6 36·7 42·6 36·2 47·9 33·6 48·2 46·7 45·8 40·0 35·7 42·6 47·2 39·4 38·5 34·2 38·3 35·4 34·3 35·4	7 7 10 3 3 3 7 7 8 1 7 8 1 10 10 10 6 2 5 5 16 3 7 7 5 17 8 7	0·3 0·3 0·4 6·3 0·2 0·6 0·5 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·4 0·3 0·6 0·7 0·7 0·7 0·7 0·7 0·7 0·7 0·7	Rs. 1-3-9

92

Statement showing the areas in the City which have been sewered and are yet to be sewered.

Municipal Division.	Name of are	ea.	Length of sewers laid during 1930.	Length of sewers laid up to 31-12-1931.	Percentage of sewered portion up to 31-12-1931.	Percentage yet to be sewered.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Royapuram Tondiarpet Washermenpet Korukkupet Harbour Muthialpet Katchaleswaranpet Kothawalchavadi Ammenkoil Seven wells Sowcarpet Peddunaickenpet Trevelyan Basin Esplanade Park Town Perambur Choolai Purasawakkam Vepery Egmore Kilpauk Nungambakkam Chintadripet Thiruvattiswarenpet Chepauk Triplicane Amir Mahal Mirsahibpet		140 5,857 2,110 1,580 5,582 3,486 2,914 4,333	40,833 31,486 52,541 22,401 29,938 24,104 34,410 22,058 25,244 28,766 18,045 30,597 31,909 8,896 20,489 25,900 28,871 52,595 35,712 79,542 28,431 11,649 40,623 47,271 22,026 25,638 28,354 81,811	84 68 96 65 92 94 91 98 99 100 96 96 96 97 85 50 52 99 75 88 52 17 95 85 90 85 85 85 88 88 88	16 32 4 35 8 6 9 2 1 4 4 28 15 50 48 1 25 12 48 83 5 15 10 15 10 15 10 15 10 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
29 30	Royapettah Mylapore	 Total	4,597 14,462 45,061	36,046 58,469 10,24,655	47 50 79·60	53 50

List of Licensable trades.

Description.		Number of cases dealt with.			ber pend- ing.
					3001
					Shirisk
Aerated water factory		36	34	2	
Bakery		79	74	5	
Candles & Soap		28	23	5	
Cart-stands		20	20		
Cattle-yards		1374	1244	9	121
Cocoanut fibre, Flax, Hemp & Jute		37	37		
Bones, Hoofs, Hair rags, Wool	and	La granda		5 52 3	-
Horns		38	36	2	
Dairy		134	134		
Flour		108	101	7	
Guilding, Electroplating, Condiments,				-273	
pets		133	125	8	
Hack-stable		79	79		
Dyeing		51	50	1	200
Onions and Garlic		46	45		1
Oil Mill, & Oil storing		491	480	11	
Lodging house	***	66	66		
Markets		41	41		
Meat Stalls & Butchers		234	202	32	
Spirits, Turpentine & Rosin		161	161		
Sweetmeat Bazaars, & Coffee hotels		368	351	17	
Washing soiled clothes		202	199	3	
Fish, Fins		18	18		
Skins, Hides & Leather		122	121	1	
Paddy boiling		1	1		
Sugar, Sugarcandy		11	11		
Catgut, Tallow, Offal, Blood, Bones		8	8		1.7.
		6	. 6		
Pig-stye		89	85	4	
Snuff	***	23	23		Low Street
Cotton Brick-kiln	***	3		3	
Lime-kiln	***	32	30	2	
Eating-house, Tea-shop		834	791	43	
Total		4873	4596	155	122

List of unwholesome articles of food destroyed during 1931.

Aerated water.		66 bottles.
Apples.		339
Appam.		971
Beef.		16½ lbs.
Berries.		520
Beans.		1 measure.
Biscuits.		36 lbs.
Brinjals.		413
Condensed Milk.	-	144 tins.
Cheese.		1026
Chocolate.	the state of	2678 tablets.
Cocoa.	1	1194 tins.
Cocoanuts.		137
Country Guava.		50
Dried fish		3 baskets.
Edili.		156
Eggs.		1360
Fish.		47 baskets.
Fresh herrings		159 tins.
Findon Hadlocks		12 tins.
Fruitsalad		19 cups.
Grapes.		15 bunches-
Groundnut seeds.		4 baskets.
Glaxo.		398 tins.
Hunters Beaf drappings.		6 tins.
Herrings.		35
Jack fruits.		363
Keppered.		57 tins,
Lactogen.		143 tins.
Limes.		100
Mangoes.		4944
Masalavadai.		151
Melons,		195
Nestles M. Food.		142 tins.
Onions.		84½ vis.
Oranges.		5732
Pagoda.		3 vis.

List of unwholesome articles of food destroyed during 1931-contd.

Plantains.	4120
Pork	18 tins.
Potatoes.	95 vis
Rotten cabbages.	114
Stale fish.	961 baskets.
Stale mutton.	26 viss & 1 seer.
Seetha fruits.	893
Sweets.	313
Stale.	70
Sugar.	4 vis.
Sweet cakes.	38
Tomatoes.	4091
Vomapodi.	l seer 10 palams.

STATEMENT OF NOTICES ISSUED AND DISPOSED OF TOGETHER WITH

				- Carlo	NOT	CES,	200010010	
		1st	Bui		l N	No com	plied with	
Section			during				By transfer to W.D. for	ed.
or By-law.	Substance of Section or By-Law.	o. pending on January 1931.	issued e year.	Total.	Volun-	By prose- cution.	Departmental	No. cancelled.
	resident (a	o. pe	No, is			cution.	recovery of cost.	0. 03
/45	(9)	(3)	(4)	(5)		-	6)	(7)
(1)	(2)	(0)	(4)	1	1	1		(.)
177	Failure to alter, repair and keep in order all house drains and all private latrines and cesspools		8	9	8	1		
178 (4)	Occupying or allowing occupation of house without proper drainage	1	1	2				2
186	Failure to obey requisition to provide latrine or to remove latrine to another site and failure to keep latrines clean and in proper order		307	616	238	53	-thoquari	106
188	Failure to obey requisition to provide			020	200			100
	iatrine for market, cattle stand or cart- stand, or to keep them clean and in pro- per order		1	1				
189	Failure to construct latrines so as to screen persons using them from view	6	6	12	8			
196 (a)	Failure to obey direction to collect and remove rubbish and filth accumulating on business premises							
202 (5)	Keeping rubbish or filth for more than twenty-four hours, etc.	4	34	38	31	3		
206 (6)	Allowing sewage to flow in streets	7	46	53	43	3		2
260	Failure to obey requisition to repair, etc. tank or other place dangerous to passers-by or persons-living in neighbourhood	3	11	14	6	1		4
264	Failure to obey requisition to fill up etc. tank or well, or drain off water, etc	96	455	551	380	17		32
269	Failure to obey requisition to enclose, clear or cleanse untenated premises	7.4	82	96	42	2		15
270	Failure to obey requisition to clear or cleanse, etc. building or land in filthy state or overgrown with prickly-pear or other noxious vegetation	10	74	84	52	3		7
272	Failure to obey requisition to lime-wash or otherwise cleanse building	70	550	626	535	3		
273	Failure to obey requisition to execute work or take other action with respect to insanitary buildings	1001	3183	4274	2743	197		221
280 (a)	Unlawful keeping of pigs							·
282	Use of place as stable, cattle stand, etc. without license or contrary tax license							
283	Repairs to or demolishing of stable, cattle-shed, etc.		13	13	7			

HE STATEMENT OF PROSECUTIONS INSTITUTED DURING THE YEAR 1931.

		CHE	FOM		PR	OSECUTION	٧.			
No.	pending.	No. of prosecutions pending disposal on 1st January 1981.	No. instituted du- ring the year.	Total.	Number convicted.	Fines imposed.	Number acquitted.	Number withdrawn-	No. in which par- ties were not found.	No. pending.
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
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		2				100	1000	The state of	on amprica	225
100		78	780	858	564	3056 8 0	9			220
*11	-									

STATEMENT OF NOTICES ISSUED AND DISPOSED OF TOGETHER WITH

	26017	P. State	MIT		NOT	CES.		
	1 4	1st	during		N	lo. com	plied with	
Section or By-law.	Substance of Section or By-Law.	No. pending on January 1981.	No. issued dur the year,	Total.	Volun- tarily.	By prose- cution.		No. cancelled.
(1)	(2)	(3)	(4)	(5)	06		(6)	(7)
284	Construction or maintenance of stable, cattle-shed, etc, contrary to Act or subsidiary legislation		. 3	4	2	1.		
286	Failure to remove carcass of animals							
287 (8)	Use of place without license or contrary to licenses							
288 (3)	Disobedience of order regarding chimnoys-							
297	Slaughter of animals for sale or food or skinning or cutting up carcasses without license or contrary to license drying skin so as to cause a nuisance							
299	Carrying on milk trade without license or contrary lincense							
304	Keeping open private market without a license or contrary to license							
306	Failure to obey direction to construct approached, drains, etc. to private markets or to pave them, etc.		2	2	2			
209	Carrying on butcher's, fishmonger's or poulteror's trade without license, etc							
310	Sale of article in public streets after prohibition or contrary to regulations							
321 (4)	Use or allowance of use of unregistered burials of burning ground							
334	Failure to obey requisition to cleanse or dis- infect building or article	3	184	187	170	7		9
345	Failure to give information of small-pox							
	Action taken under the By-laws.							
319 (11)	Regulation of hotels, lodging houses, boarding houses, etc. and any premises to which the public are admitted for consumption of food or drink							
349 (13)	Sanitary control of places used for any of the purposes specified as schedule VI						THE	
349 (21)	Prevention of sale or exposure for sale of unwholesome meat, his or provisions, etc.	-			250		-	
349 (25)	Prevention of dangerous diseases of man and Animals					-		
		Maria L						

THE STATEMENT OF PROSECUTIONS INSTITUTED DURING THE YEAR 1931

		7892		- 19	PROSECUTI	ON.	-		
No. pending.	No. of prosecutions pending disposal on 1st January 1981.	No. instituted du- ring the year.	Total.	Number convicted.	Fines imposed.	Number acquitted.	Number withdrawn	No. in which par- ties were not found.	No. pending.
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
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	31	316	847	269	242 0 0	7	23		48
-	31					1			
		1	1	1	5 0 0				

Statement showing the number of cases treated in the Corporation Dispensaries during 1930—1931.

Serial No.		Name of the Di	spensary.	1	Year in which the insti- tution	tre	o. of cases ated.	Total No. of minor operations performed.		
	No.		was opened	1930.	1931.	1930.	1931.			
VII)		- BU - BU	MALL			111311	1 193	THE REAL PROPERTY.		
	1	Royapuram D	ispensary		1924	25,670	26,137	291	279	
	2	Washermanpet	,,		1913	1,01,023	101,690	830	805	
	3	Harbour Division	,,		1929	73,181	1,03,275	202	260	
	4	Mannady	,		1923	86,992	38,579	562	534	
	5	Mafuskhan Garden	,,		1923	83,300	1,03,025	1204	451	
	6	Mint Street	,,		1923	91,268	96,730	1,278	1,502	
	7	George Town	,,		1919	1,00,602	1,07,145	404	495	
	8	Perambore	,,		1928	40,053	44,333	459	455	
	9	Pulianthope	,,		1922	68,164	75,170	954	1077	
	10	Vyasarpady	,,		1929	27,187	33,329	321	511	
	11	Baliah Naidu	,,		1899	91,492	95,375	2,361	2,268	
	12	Kosapet	,,		1929	32,470	43,831	345	401	
	13	Kilpauk	,,		1919	42,497	41,310	293	370	
	14	Nungambakkam	"		1923	73,830	72,698	447	461	
	15	Chintadripet .	,,		1909	98,558	1,08,660	674	720	
	16	Triplicane))		1918	1,05,733	1,17,547	491	481	
	17	Pudupakkam	"		1924	1,05,287	1,09,579	1,020	833	
	18	Teynampet	,,		1921	32,612	40,279	279	400	
	19	Mylapore	,		1924	1,14,686	91,410	632	597	
	20	Ayurvedic Dispensary & Children, Thousa	1930	2,745	30,122		245			
	21	Siddha Dispensary, C	hulai		1931		97,880		143	
	22	Unani Dispensary, Ma	umbalam		1930	2.935	32,832	32	450	

THE INFECTIOUS DISEASES HOSPITAL, TONDIARPET-(STATEMENTS.)

TABLE No. I

Admission, discharge and death under various diseases during the year 1931.

Total.	89	181	819	730	62	9.6	10	1_
Other Diseases.	8 8 8	80	80	22	24	33	-	Moribund
Secondary Syphilis,	- :	4	*	4	-	-	1	M
Pulmonary Tuberculosis.	:	01	91	1	Olima	20	:	1
Kala-Azar.		:	_ !_	:			aparo i	
Pyrexia of unknown origin.	:	10	10	5		. 1	1	
Malaria.	:	60	63	60	Reis		· ig	
Enleric Fever.	- 1:1	-	-	-		o Lug	0 han 10	-
Pneumonia.	:	5	10	1	11-4-11	08	10	-
Whooping Cough.	11:-	12	12	11	100	:	-	
Mumps.	1 1	18	79	84	77:		Mp is	No.
Diarrhoea.	2 11 0	45	45	4	-	61	:	punc
Dysentery.	-	16	17	15	01	11.7	18	d Moril
Cholera.	30	172	202	163	39	19.3	1	Moribund Moribund
Measles.	1 "!"	24	450	42	nein	:	:	1
Chicken-Pox,	20	264	569	265		-14	4	
Small-Pox.	61	46	84	36	80	16.7	4	
	ne Hos- er, 1930	uary to	:	:	:	:	he Hos- er, 1531	
	Patients remaining in the Hospital on 31st December, 1930 at 12 Midnight	Admitted from 1st January to 31st December 1931	Total No. Treated	No. Discharged	No. Died	Mortality rate per cent.	Patients remaining in the pital on 31st December, at 12 Midnight	
School Sc	Patient pital at 12	Admit 31st	Total 1	"	-	Mortal	Patient pital at 13	1

15.3

10.4

10.4

58.5

150

134

183

Daily average.

Total.

11.5

28

24.4

9.2

TABLE No. II.

35 Contacts. Other diseases. Secondary Syphilis No, of cases admitted classified according to various diseases during different months. cnjosis. Pulmonary Tuber-1 Kala-Azar. origin. KO : Pyrexia of unknown B Ē : E 1 Malaria. 6 1 : 1 Enteric fever. : : : 1 1 : : 1 Pneumonia. 10 Whooping Cough. 8 H 17 .sqmuM 8 63 Diarrhoea. Dysentery. 16 Cholera. Measles. 2 49 Chicken-pox. 81 Small-pox. 96 Total. September November February December October

January

March

April May

June July August

TABLE III.

Admissions according to nationality, Age and Sex.

	Ad	lults.	Chi		
	Male.	Female.	Male.	Female.	Total.
European and Anglo-Indian	 6	4	2	9	21
Hindus	 295	111	71	52	529
Mahamadans	 30	6	1		37
Others	 99	50	23	22	194
Total	 480	171	97	83	781
* * * * * * * *		TO THE PARTY OF	1		

TABLE IV.

Number of Beds available in the Hospital and their Distribution.

Sections.							Number of Wards.	Beds per Ward.	Total Beds.	
Indian								 2	24	48
Do.								 .1	20	20
Do.								 7	4	28
European								 4	2	8
							Total	 14	50	104

TABLE V. Showing the Vaccinal condition of patients admitted for Small-pox.

		te a maria											
	Mortality per cent,			;	:	:	:	;	20	25	:	100	07
inated.		Recover	94	1	:	:	-	1	63	3	:	:	6
Un-vaccinated.	,,	Deatl	01	:	:	:	;	:	63	1		1	9
1	.noi	ssimbA	7	1	:	:		-	4	*	:	1	15
		Mortality per cent.	:	;	:	:	:	:	:	1	33.3	u in	6.9
10	Total.	Recovered.	:	:	:	:	1	:	123	14	64	:	53
	To	Death		:	:	:		:	:	1	1	:	3
		noissimbA	:	:	:	:	1	:	112	15	3		31
	Vaccinated with marks not Visible.	Mortality Per-cent.	:	:	:	:	:	:	:	25	33-3	:	15.4
		Death	:	:	:	:	:	:	:	1	1		2
Vaccinated,		Total bestimbs		:		:	1		2	-	3	:	13
Vacc	rks	Mortality Per-cent.	:	:	:	:	:	:	:	:			
1	Vaccinated successfully with mar Visible.	Death	:	;	:	:	:	:	:	:	:		
	ully wi	Total Admitted	:	:	:	:	:	:	1	11	:	:	18
	visible.	22	:	:	:	:	:	:	:	1	:	:	-
10	suc	7	:	:	:	:	:	:	01	60	:	:	10
1	nated	60	:	:	:	:	:	:	1	4	:		5
1	7accin	61	:	:	:	:	:	:	0.3	:	:	:	63
		1	:	;	:	:	:	:	63	63	:	:	5
	Age.	11	0-1	1-2	2-3	3-4	4-5	5—10	10-20	2040	09-01	60 & upwards	

TABLE VI.

Statement showing the incidence of Small-pox among the vaccinated and the unvaccinated.

All ages.	Cases.	Deaths.	Fatality rate per cent.
Among vaccinated	18	Nil.	Nil.
Among stated to have been vaccinated but with no scars visible	13	2	15.4
Among unvaccinated	15	6	40-0
Total	46	8	17.3

00

Total.

Contacts.

554

72

591

75

:

19

2

15.88

:

ght and	Other diseases.	0	6	9	49	40	1	17.5		23
	Skin diseases.		:	:	:	:	:	. :		- :
	Influenzal Pneu-		. :	:	:	:	:	hoha:	SOUND	Buggle
1-11-	Influenza.		:	In the state of	ŧ	:	:		TEN Y	STATE OF THE STATE
nts).	Secondary Syphi-		:	63	21	01	:	Sales is	EH	anoish.
year	Pulmonary Tuber-		. 11:0	7 -	-	-	:	:		;
(Str.	Kala-Azar.		:	:	:	:	:	:		:
(PET uring	Pyrexia of un- known origin.		:	:	:	:	:	:	143 34	
NAN Nes d	Malaria.		:	:	:	:	:	:		:
RISH	Enteric Fever.		:	:	:	:	:	:		. :
, KI	Pneumonia.		:	:	:	:	:	:		- :
SPITAI No. I.	Whooping Cough.		:	:	:	:	:	:		:
THE INFECTIOUS DISEASES HOSPITAL, KRISHNAMPET (Statements). TABLE No. I. nissions, discharges and deaths under various diseases during the year 1931.	Mumps.		;	:	:	:	:	:		::
	Diarrhoes.		:	27	27	23	1	14-81		- 1
US DISI	Dysentery.		:	6	6	00	1	11.11		:
VFECTIOUS discharges	Сројета.		16	183	199	125	14	40.4		
=	Measles.		:	23	23	55	1	4.84		
Ad	Chicken-pox.		61	163	165	159	:	:	1	9
	Small-pox.		01	460	36	53	1	1.85		9
			Patients remaining in the hospital on 31st December 1930	Patients admitted from 1st January 1931 to 31st December 1931	Total No. Treated	No. Discharged	" Died	Mortality rate per	Patients remaining in	the hospital on 31st December 1931

TABLE No. II.

Distribution of admissions throughout the year 1931 in the Krishnampet Isolation Hospital

	107	
Daily Average.	8888888	13
Total.	25 86 32 32 86 86 86 86 86 86 86 86 86 86 86 86 86	554
Contacts.	8127-000 ;1-0004	75
Whooping Cough.	1111111111	1
O:her Diseases.	O 23462-1 201-101	40
Skin Diseases	111111111111	1
Influenzal Pucumo-	1:111111111	:
Influenza.	111111111111	1
Secondary Syphilis.	-1111111-11	91
Pulmonary Tubercu-	11711111111	1
Kala-Azar,		:
Pyrexia of unknown origin.	11111111111	:
Malaria.	11111111111	;
Enteric Fever	1111111111	:
Pneumonia	[]:::::::::	-
Mumps.	11111111111	:
Diarrhoea.	9001-90H H-100	27
Dysentery.	20 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6
Cholera	1:::: 1::::::::::::::::::::::::::::::::	183
Measles.	100000 1-1111-1	23
Chicken-pox.	14882 1882 1888 E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	163
Small-pox.	H 20 00 00 1 1 1 1 1 20 00 10 00	34
		:
		Total
	:::::::::	
		377
1931	11:11:11:11	
an are		- 4
	January February March April May July August September October November	13

108

TABLE No. III. Admissions according to Nationality, Sex and Age (Excluding Contacts for the year 1931).

Nationality,	Ad	ults.	Chil	mark	
Nationality.	Male.	Female.	Male.	Female.	Total.
Europeans and Anglo-Indians Hindus Mahomadans Others	154	100 8 40	13 25 	6 14 2 16	30 298 17 142
Total	243	150	51	38	482

TABLE No. 1V.

Number of Wards and of Beds available in each Ward.

	Name.	-	Number of beds.	Total.
Special Ward		 	3-	3
General Ward		 	14	14
Male Ward		 	16	16
Female Ward		 	16	16
Block No. I		 	+	4
Block No. II		 	4	4
		Total	57	57

TABLE No. V.

Vaccinal Condition of Small-pox Patients admitted during 1931.

Total No.	Vacci	nated.	Unvaco	inated.	Said to be but no man	
Admitted.	Cured.	Died.	Cured.	Died.	Cured.	Died.
34	19	1	6		8	

109 CONSERVANCY (Statements).

Statement of Bullocks 1931.

Depo	ts.	No. on 1-1-31	New additions.	No. Died.	No. on 1-1-32.	
A		82+1		15	104	+ Denotes No. of
В		132+2	-161	28	150	condemned ani- mals at grass Farm.
С		131+4	cks-	19	139+3	The state of
D		108+2	Bullo	23	105	1948
E		95+2	New Bullocks	17	97+2	
F		85	Z	15	88	TANDAY S
Total		633 + 11	161	117	683+5	Jan Jan

RICE TRANSACTIONS.

Value of Stock on hand on 31-3-3 Purchased during the year 1931-3		1::=-	:::	281 73,613		0
				73,894	9	0
Expenditure incurred for conveying Establishment, etc.	ng, rice mea	suring		1,541	0	0
				75,435	9	0
Sold during the year 1931-32 to the	ne coolies	E #		74,526	0	0
Issued to Lethal Chamber				240	8	0
Issued to Education Dept. for mic	lday meals t	o pupils		674		8
Damaged in floods			•••	15	3	7
	Total value	of rice issued		75,456	3	3
				75,435	9	0
the state of the s		Gain Rs.		20	10	3

Rheuma-tism. : 01 : : i : 13 14 : : 1 Foot and mouth. 26 32 55 90 17 -201 15 14 : : : : Statement of Sick Bullocks treated in the official year 1931. 03 64 Trypno-: : : : ·sis 9 00 11 : : : plosmiaсатать, 6 12 : : : : Ign Intestilocation. : Ė : Dis-ON Lymph-angitis. 80 : : : : cases. 109 16 11 36 19 191 Debility & other 106 Fits. 04 14 36 52 16 14 01 ... ·spunoM : : Sprain. 116 13 47 233 21 27 13 39 35 96 58 62 293 : : : : 1 : Total Depots. a E 江

111

Works of a Sanitary Nature.

numbers.	Division.	Budget Heads.	Remarks.
1		New Works-Latrines.	19 6
1	2	Extending the existing latrine to 15 seats in Rope Godown Paracheri	
2	22	Installing a convertible latrine of 12 seats at Chetput village	
3	2	Converting the existing sanded latrine into F.O.L. of 20 seats with bathing ghat in Masthan Coil Street	
4	3	Extension of F.O.L. of 15 seats in Mottai Garden	
5	3	Do. Maniganda Mudali Street	
6	28	Converting the existing latrine into F.O.L. of 40 seats with bathing ghat in Ramakrishnapuram	
7	20	Installing double seat F.O.L. for the station staff, Pudupet	
8	13	Installing F.O.L. of 4 seats at Frazer Bridge Road junction of Erusappa Mudalı Street	
10	14	Construction of F.O.L. of 4 seats in Nyniappa Naick Street Converting the existing latrine into F.O.L. of 30 seats	
10000		in Chucklipalayam Construction of F.O.L. of 6 seats in Shanmugharoya	18.3
13	10	Mudali Street	
		Many other latrines are in progress	
1	27	Bathing Fountains. Constructing B.F. in Shaik Dawood Street	
1	21	Other works. Construction of shelter for coolies at Otteri Dumping	
2		Extending tipping platform near Krishnampet Incine-	
		rator Drains	
1	26	Construction of water tables in Madah Streets, Tripli-	
2	16	Repairing anti-malarial channel and constructing tip- ping platform at DeMellow's Road junction of	
	1	Pulianthope Road	
3	9	Covering drain in Parish Venkatachala Iyer Street	
4	29	Construction of drain in Royapet High Road Construction of water table in Govindappa Naick Street.	
5	11 15	Do. in Ponnappa Chetty Street	1 1 1 1 1 1
7	15	Do in Edapalayam Street	100
8	5	Covering drain with R.C. slabs in Ebramji Sanib from	1
9 10	29 22	Construction of masonry drain in Balu Mudali Street.	1
11	21	Covering drain on both sides of Rajaratnam Street	
12	2	Providing water tables on both sides of Monegar Choultry Road	
13	11	Do. do. in 11th division	A Total
14	13	Do. do. in 13th division	
15	21	Do. in Ponnappa Mudali Street	
16	21	Do. in Andiappa Mudali Street	

ANTI-MALARIAL WORK-(STATEMENTS).

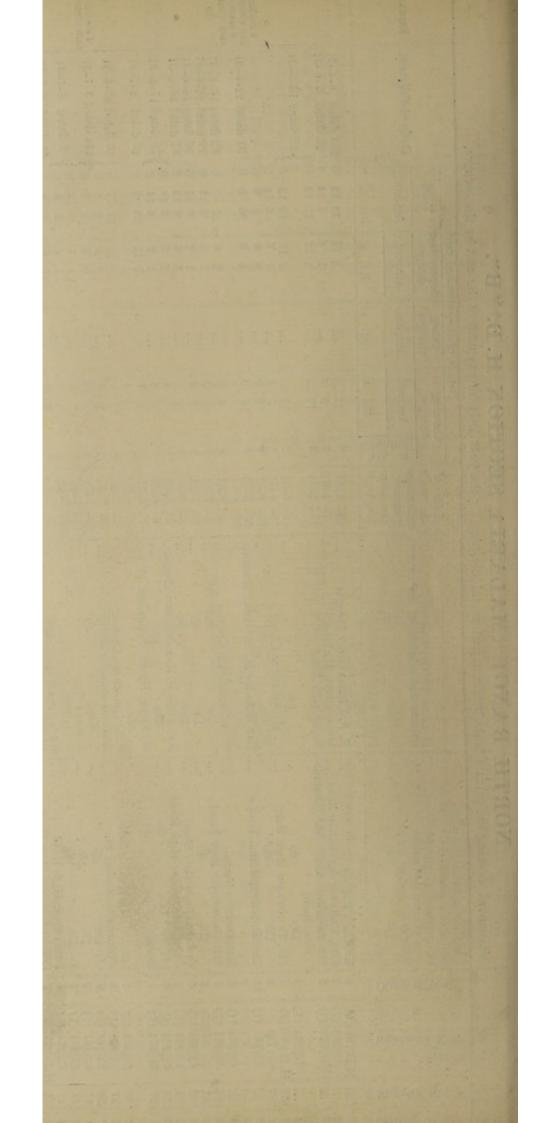
STATEMENT A.

		Remarks	.89	non'i ver	Prosecutions instituted 2 were d and fined As. 0-8-0 each and ining 35 cases were withdrawn.	convicte	
31.	ed.		Ils.	A.	0		
198	llect	Amount.	Wells.	Rs. A.	-		
year	s c0	om	KS.	-A			
the	Fines collected.	4	Tanks.	Rs.	William St.		
ıring	1 112	ons ons	11 11	Wells.	6		200
as dı	No. of	Prosecutions instituted.	in the	Ponds.	10		-
Madr		Pros	2000	Tanks.	65	-	-
of		·	40	Р.	60		
ity		cte	146	A.P.	- 0	1	1
re: cleaning of tanks, wells and ponds in the City of Madras during the year 1931.		collected.	ine	Rs.	1,746		200
ni sbi		unds	'SJ	Wells.			100
d pon	No. reclaimed.	Private lands by Corporation	at owners'	Ponds.			-
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wel	No.	A	-	Wells.		11/1/20	-
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of tan				Wells.	09		
ning	No. not	complied		Ponds.	10	121	100
clear	Z	3		Tanks.	6	411	
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ction	lied v	(a)	at lof th	Tanks.	128	0	
the s	dauo	he	500	Wells.	517	- 82	
wing	No. complied with	(a) By the	party.	Ponds.	16		
t sho	7110	(a)		Tanks.	149		7
Statement showing the action taken	4	es d.		Wells.	578	un	-
Stat	No. o	Notices served.		Ponds.	6 3 3 3 3 3	2	7
				Tsaks.	586	11	
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NORTH RANGE (MALARIA SECTION H. D.) "B".

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ers.	Date of Payment.	and the same of th	\$1 dated 16-5-31 91 dated 22-6-31	82 dated 26-6-31 79 dated 26-6-31 80 dated 26-6-31 81 dated 26-6-31 16 dated 17-6-21 16 dated 2-7-31	26 dated 30-6-31 114 dated 3-7-31 8 dated 6-7-31 41 dated 6-7-31	36 dated 6-1-31 68 dated 17-7-31 10 dated 7-5-31	& 86 dated 10-12-31 58 dated 13-7-31 717 dated 1-8-31	0 102 dated 31-7-31 0 103 dated 31-7-31 0 44 dated 1-8-31	3 dated 10-7-31 47 dated 29-7-31 210 dated 4-8-31 55 dated 12-8-31, 102 dated 29-9-31, 88 dated 1-12-31,	82 dated 19-8-31 &	78 dated 29-8-51 116 dated 11-8-31 162 dated 13-8-31 134 dated 86-8-31	151 dated 1-9-31	74 dated 10-9-31 74 dated 10-9-31 7 dated 11-9-31 16 dated 0-9-31	06 dated 10-9-31 06 dated 10-9-31 12 dated 16-9-31 95 dated 17-9-31	111 dated 16-7-3; 77 dated 1-10-3; 26 dated 9-10-3;	0 \$86 dated 8-10-31 0 42 dated 21-7-31 0 68 dated 7-10-31	0 102 dated 12-10-31 0 52 dated 19-11-31 0 62 dated 25-11-31	0 22 dated 30-11-31 8
the own	Total.	Rs. A. P. 13 12 0 6 14 0 13 12 0	18 6 14 20 0 20 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200244	69 28 88	6 14 0	2118211	2222	32 8 0			20 14 0 20 14 0 20 0 0 13 12 0	13 28 24 20 20 20 20 20 20 20 20 20 20 20 20 20	6 14 0	2220	**************************************	13 12
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Delta Chemina Denis Other Sementarion of the owners.	Name and address of the owner.	K. A. Chakravarihy Iyengar Munusawny Mudaliar Ralagogala Avar	Do Do Do do do ao Bahadur M. Saravana Mudal	P. Balasundaram Cheltiar Do do Od do On Ros Shib P. Ramachandra Chettiar. My'apore Hindu Permanent Fund	Lida Kriphnawamy Chettiar Kriphnawamy Gramany Do do G. Suryapakasa Rao Naidu	Automorator Seneral Andria, Es- tale of P. Aunachala Mudaliar) Ilyydural Mudaliar Suriyaprakasa Rao Naidu Ramasawmi Mudaliar	P. Ramaswamy Pillay Myspore Hindu Permanent Fund	Raja of Chellapalli Raja of Chellapalli Ray Bahadiu M. Sarvena Mudaliar	Murugesa Muddiari Samudea Ammal Secretary, S. K. P. D. Charitios Secretary, Kachalesvarar Devasta- nam Board.	K. Veakataraghavachary (Trustee)	M. Rangiah Chetty do		9	C. Manaya'a Chetiyar Rajoo Pilay Murugesa Mudaliar Karuppanna Chetiy & Veeraragava	Vasudeva Chetty Sajja Munuswamy Chetty Sassar T. Namberumal Chetty &	Rajoo Gramony Do Na Sanwana Mudaliar, M. Rangiah Chetty	Rao Bahadur M. Saravana Mudaliar, N. Mahomed Mian Rowther Do do Do Do ERAMSANMY Gramony	M. H. Kasim Sait
	Locality.	Krishnan Pagoda 1160, Gollawar Agraharam Road Mannarsawmi Coil St. (Brahma.	118, Tiruvottiyur High Road C do do C do C do R	Malikesvaror Temple 111, Truvestiyer High Road Do Vackematha Muchay Street 4140, Truvestiyer High Road 111, Do, yet do do		: ::::	pec	Elia Mushay Street Tituvottiyur High Road Do do Do do Do do Do Seni Ammen Coil Street		Sengalaneer Pillaiyar Temple	291, Truvottyur High Road Ami Rangan Street Ami Rangan Street Mannappa Madaly Street Seni Ammen Coil Street Soliampen Street Arunachaleswarar Coil Street Do do Do do Do do	111111	::::		::::	::::	Seni Amman Coil Street Do do do Do do Do do Co	
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SOUTH RANGE (MALARIA SECTION H. D.)

Statement showing the private Tanks under departmental cleaning for the year 1931 on payment of the cost by the owner.

	Remarks					7					1st & 2nd Instalments					7	at Rs. 4-6-0 per pond.					
	Date of Payment.			111 dated 1-4-31 11 dated 13 4-31 67 & 24 dated 6-31	63 dated 19-6-31 83 dated 13-7-31	:	6 dated 4-7-31 9 dated 14-7-31 4 dated 13-7-31 115 dated 15-7-31 156 dated 15-7-31 156 dated 20-7-31 159 dated 14-7-31 58 dated 14-7-31	57 dated 25-7-31 38 dated 31-7-31 98 dated 25-7-31	119 dated 3-8-31	151 dated 20-7-31 99 dated 4-8-31	32 dated 6-8-31 & 32 dated 26-11-31	89 dated 8-8-31] 112 dated 18-8-31	77 dated 20-5-31 110 dated 22-5-31 41 dated 1-9-31 135 dated 23-9-31	185 dated 21-8-31 67 dated 28-5-31 11 dated 8-9-31 89 dated 28-9-31 8 dated 28-9-31 6 dated 28-9-31 10 dated 28-9-31 10 dated 28-9-31 10 dated 28-9-31 10 dated 28-9-31	42 dated 28-9-31 102 dated 7-10-31 137 dated 12-13-31	11 dated 19-10-31 88 dated 20-10-31 88 dated 20-10-31 11 dated 41-31 111 dated 41-31 110 dated	23 dated 25-11-31 41 dated 25-11-31		107 dated 39-9-31 32 dated 9-4-31		32 dated 9-4-31
	Total.	Amount.	Rs. A P.	1 11 0 6 14 0 13 12 0	6 14 0	15 0 0	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 7 2	6 14 0	55 0 0 (5 0 0	0 0	0		0000	,000000000		404440000000000000000000000000000000000	6 14 8	88 M	27 8 0 0 8 27 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 8	20 13 12 0
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		cjesu-	ło o N sgni	- 01	04	1		01	-	8 1 coolies.			4 coolies 4 coolies 4 coolies	4 coolies. 5	n o i i i i i i i i i i i i i i i i i i	24 04	S cooks to the state of the sta	:-	11	01++++	-	111
	Date of work undertaken	depart- mentally.		:::	5-7-31	26- 7-31	19-7-31 18-7-31 20-7-31 30-7-31	: :::	:	::	:		: :	:::		:::	1111111111111	::	:::	:::::	:	Well
	Name and address of the owner.			Gopaul Chelty Thiruvengada Mudaliar H. D. Cornish	Whites Road Personal Asst to Surgeon General		Maalamoni Pillai G. A. Rajagopal Naidu Trustees Warden, Vieloria Host I Trustees Farm Chelshinga Muchinga Muchin	Miss M. Sykes Kabaleeswar Temple Tank Trustees, Angalammen Tank Cetemonial Gardons, S. K. P.	Charity. Pentland Gate S. G. Sadage	Mudahar. Sri Gangadareswarar Coil Trustees		Raja of Venkatagiri "Ostor House" Thangavelu Pillai (Trustee)	T. Numberumal Chetti	Lodd Govindoss P. Manickavelu Mudaliar M.G.M. Chidambaram Chetti	r. Engr., South Presy, Division. r. Engr., South Presy, Division. r. Engrer, sp. Grunnin other Superior other Superior in of Eyapore est & Co. in of Sivaganga in of Sivaganga rea, H. Co., H. (in livin) Alwinder sinfil Gardens	lessra, C. Kinsal Doss . Ethirajammal rs. D. M. Kay	Septing darter Aziz Baicha Sabi as Bain Udeity H. M. Dehim Saib H. M. Dehim Saib H. H. Lodg Mr. Clubwalla Beinty & Co. V. S. Rengandham Pillai Kapi of Pidapartam Vindasakhah Chefty Mr. Rober I Lee S. K. P. D. Charifes Issiste Wallace	Kollathammen Coil Sriramulu Naidu	Hafiz Ahmed Khan Mosque Bashyakarulu Naidu	Warden Ex. Engineer Govt, House Do. do Oo Ex. Engineer Hobart Training	Ex. Engineer, Engineering College Compound.	St. George Cathedral Dhanakoti Mudali Trustees
	Locality	. Étimolog		Harring'on Read "Cutling," Anderson Road Blackers Garden, Mcunt Road	Secretary, Madras Club	Greenways Road	Kandawami Coil Sireet Nainiapa Naick Sireet Thinwateswarenpet Tumpe Tank Cheganak Madwapeumal Coil Sireet Month Road Kodumbalkam High Road Greanes Road	E	. pao	Purasawaikam Virupatcheswarar Coil Street	Triplicane		Mc. Nicholas Road Venkafachella Pillai Street	Road	s	Mowbrays Road 1, Murrays Gate Road College Read Ecclesten Heuse	Nunganbakan High Road Ramamigan Certy Sirect Kasa Mijor Rood San Thorne High Road Indian Carthue Club Ild Nungambakam Verkarangam Pilai Sirect Werkarangam Pilai Sirect Cathedra Rood Murnys Cate Road Cathedria House Cathedria House Cathedria House Cathedria House	Harrington Read 5, Police Commissioner's Office	Triplicate High Read Vacant Land Behind 5 Poes Road 12, Police Commissioner's Office B	Pachisippas Hostel Mount Road Do. Do Whites Road	Lankerkana, Chepauk	St. George Cathedral Road I, Harington Road Parthasarathy Temple Tank
		*uc	Divisio	222	81.01	53	864688888	5 5 5 5		188	9.5	54 % 54 %	201 01	2000	20 20 20 20 20 20 20 20	08 08	N 20 00 00 00 00 00 00 00 00 00 00 00 00	00 00	222	2121222	100	9999
		oN son			2669/31 62/264 H.D.C.	3514/31 H.D.C.	55 & 56/264 1208/31 13/264 55 & 56/264 44/264 65/264	1317/31 59 & 60/264 65/204 111264	46 & 56/264	6/264	2335/31	63/264	4232/31	55/264 10/264 4463/31	4172/31 1684/31 61/264 80/264 64/264 4179/31 1818/31	4858/31 13/264 66/264	67/26 92/261 5205/31 5	11	3868/31	11111	1	111
		oN 20	Registe																			
		_	Serial	- 24 00	40	9	- 800 C - 8187	12 12	13	82	98	2 2	1 55 55 1 55 1 55 1 55 1 55 1 55 1 55 1	2000	384884888888888888888888888888888888888	40	22223222222222	55	53	3625	99	66

SOUTH BYACK MARYETA

Medical Inspection of Corporation Schools.

STATEMENT 1.

1931-32

	*		-	-11.5						
	Remarks.		Her	21121472		Height				
	Total of Entrants and Regulars.	. o Sept	Percei	4-08 11-05 21-60	2-73 0-21	2.35 0-19 0-21	0.60 0-19 4-83	0-72	9.37	0.83
	Total of and Re	-pAjt	Delec	415 1125 2199	1749 278 21	239 19 21	19 19 492	173	924	23.83
		Percentage	1930-31	10-05 12-90 26-25	19-63 3-13 0-23	141 0.09 0.17	1.53 0-29 8-69	0.03	9.13	5-33
Girls,	Regulare,	Perce	1931-32	5-20 9-06 23-84	18-56 2-67 0-24	9.86 0.94 0.20	0-78 1-18 4-52	0.85 0.59 0.14	9.32	8.70
		.07	Defect	292 203 1340	1043	100	254	₩ 85 ₩ 85 ₩ 85	524	489
E C		tage.	1930-31	7-46 17-00 24-08	15-26 3-98 0-21	1-69 0-05 0-16	0.38	0.72 0.36 0.10	08-6	7-05
1000	Entrants.	Percentage.	1931-32	2-70 13-51 18-84	15-48 2-81 0-15	171 0-111 0-22	0.20	0.56	9-43	1.82
1000		.evite.	Defe	123 616 859	128	10	238	8210	430	275 83 13
	of Entrants Regulars.	.egato	Perce	21-10 13-28 17-34	21-43 2.98 1.29	1.63 0.08 0.63	1-24 0-14 4-12	3.60 0.27	13.16	9·16 0·53 0·63
	Total of J	.ovi	Defect	3761 2466 3090	4353 531 230	27.8 3.4 95	255 7355	365	2315	1632 95 94
		stage-	1930-31	24.15 15.75 21.66	24-28 3-71 1-23	1.78 0.12 0.62	9.50 0.50 8.68	8 58 3 86 0 2 1	11-84	10-42
	Regulara	Percentage	1931-32	2241 12-83 18-09	25-17 3-13 1-79	1-67	1-31 C-20 3-58	2.00 3.74 0.31	13-29	9-22
Boys.	4	.ovi	No Defec	2227 1275 1798	2501 811 178	166	130 20 356	199 872 31	1321	916
		tage.	1930-31	20-24 18-91 21-50	24-16 2-63 1-04	1.68	1.25 0.07 2.93	9-56 0-22	11-32	10-67
	Entrants,	Percentage.	1931-32 1930-31	19-46 15-11 16-39	23-49 2-79 0-66	1-34 0-06 0-39	1-15 0-06 4-81	3-11 3-41 0-23	12-99	9-08
	80	'OAII	Defec	1584 1191 1292	1852 220 52	106 5 31	91 879	166 269 18	1024	716 98 40
				111	111	111	111	ystems	1	# # #
	2	Descriv		Mahutrition Duty bead, body and Nails Teeth and Mouth	Nose and Throat Eye disease Vision	Ear disease Hearing Epeech	Circulatory System Tubercalosis Respiratory System	Abdominal Organs Bones and Joints Nervous and Psychic systems Infectious and Contactous		Other diseases and Defects' Vaccination Deformities
	5	-		- es ec	400	6-00 m	212	5145		188

STATEMENT II—1931-32.

Height and Weight Table.

		В	oys.	Gi	rls.	
Age.		Average height in inches.	Average weight in pounds.	Average height in inches.	Average weight in pounds.	Remarks.
200	1				3 41	
4 years		35-67	25-67	37.76	32.65	
5 ,,		37.18	31.48	40.50	32.70	1
6 ,,		41.19	33.71	41.15	33.16	
7 ,,		43.68	36.05	42.94	37-06	
8 "		45.53	38.85	43.90	41.53	1
9 ,,	-	46.81	41.98	47.21	43.93	
10 "		48-51	45.71	48.68	48.43	
1 ,,		49.81	48.67	50.81	52.00	1
2 ,,		51.85	54.24	53.00	59.70	100000000000000000000000000000000000000
13 ,,		53.04	57.84	54.72	62.44	1 63
14 ,,		55.16	61.67	56.61	73.80	
15 ,,		55.36	64.39	58.14	79-77	1 - 1 - 1 - 2
16 ,,		60.16	73.99	58.70	86.34	1000000
		63.06	86.87	63.85	78.50	One girl.
18 ,,		63.10	93.30	63.30	91.40	Three girls
19 ,,		60.50	99.00	59.00	84.00	One girl.
500 S			one Boy			
20 ,,				59.00	85.00	Two girls
21 ,,				57.00	72.00	One girl.
22 ,.				61.00	71.00	1
23 ,,				60.25	88.75	One girl.
24 ,,		***		60.91	105.50	Do.
26 ,,				59-00	77.00	Do.
27 ,,				60-00	88.00	Do.
28 ,,				59.75	111.00	Do.
00				59.00	123.50	Two girls
10				57.00	178.00	One girl.

APPENDIX TO STATEMENT I.

Group.	No. on Roll.		Averag	Average Daily Attendance.		No. Examined.		No. Defective.		Percentage Defective.	
Groups	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
Entrants \ Regulars \	19,936	12,438	16,266	9,390	{ 7883 9938	4,560 5,620	4,620 5,920	2,607 3,359	58·61 59·57	57·17 59·77	
Total	19,936	12,433	16,266	9,390	17,821	10,180	10,540	5,966	59-14	58-61	

TREATMENT TABLE.

Corporation Schools.	No. sent to Cor- Foration Dis- pensaries.	No. referred to General Hospital	No. referred to Ophthalmic Hos- pital.	No. referred to Tuberculosis In- stitute.	No. referred to Gosha Hospital.	No. referred to Govt. Royapuram Hospital (Leper out-patient De- partment.)	No. of parents met.	No. of re-visity paid to School for following up.	Remarks.
Boys .	. 8,956	534	233	25		92	4,129	173	
Girls	4,088	457	63	14	8	13	388	133	
Total .	. 13,044	991	296	39	8	105	4,517	306	

TEETH AND MOUTH TABLE.

1	J		Total defe	1440	2071	2055	13	46	∞
	1		No. referred to General Hospital.	101	138	-	69	1	-
-		Girls.	No. sent to Corporation Dispensaries.	:	:	243	:	10	1
-	Regulars.	0 1025	No. Defective.	390	710	244	63	II	61
-	Regu		No. referred to General Hospital.	4	12	100	00	:	-
		Boys.	No. sent to Corporation Dispensaries.	101	437	925	:	18	:
-			No. Defective.	436	979	925	00	18	64
			No. referred to General Hospital	99	103	-	:	:	-
		Girls.	No. sent to Corporation Dispensaries,		1	171	:	7	
-	Entrants.		No. Defective.	247	200	172	:	4	-
	Entr		No. referred to General Hospital.	1	14	:	61	1:	
		Boys.	No. sent to Corporation Dispensaries,	140	222	114		13	-
			No. Defective.	367	315	714	63	13	00
				:	:	:	:	:	30:25
-	The state of the s		Defects.	Dirty Teeth	Dental Caries	Stomatitis	Tongue Tie	Oral Sepsis	Other Conditions
		RATI	o Z	-	**	**	-	10	•

N.B.- Cases not amenable to or not requiring treatment have been omitted from the treatment column.

NOSE AND THROAT TABLE.

3	ctive o	Total defe	534	6	5086	26	28	1021	79	53	-
		No. referred to General Hospital.	1	4	890	:	3	1	1	:	
	Girls.	No. sent to Corporation Dispensaries.	146	1:	538	10		25	33	i	
Regulars.	-	No. Defective.	9#1	P.	857	10	63	25	36	.:	
Reg		No, referred to General Hospital.	1	5	87		38	:	:	-	
	Boys.	No. sent to Corporation Dispensance.	82	11	2035	24	1	148	3	01	
		No. Defective.	88	2	2122	24	88	809	15	10	
	-113	No. referred to General Hospital.	1	:	174	:	-	:	1	:	
	Girls.	No. sent to Corporation Dispensaries.	185		320	C4	1	18	11	:	
ints.		No. Defective.	185		494	67	1	18	14	:	
Entrants.		No. referred to General Hospital.	1		83	:	16	1	:		
	Boys.	No. sent to Corporation Dispensaries.	121		1530	20	:	19	10	:	
		No. Defective.	121	:	1613	20	16	400	14	:	
			:	:	:	×	:	I glands.	d Uvula	:	
		Defects.	Nasal Catarrh	Nasal Polypus	Enlarged Tonsils	Granular Pharynx	Adenoids	Enlarged Cervical glands.	Bifid & Elongated Uvula	Other Conditions	
	20	oʻZ -		04	3	+	2	9	1	20	

N-B.- Cases not amenable to or not requiring treatment have been omitted from the treatment column.

EYE-TABLE.

1			Total defections and	219 84 1129 110 110 110 110
-			No. referred to Ophthalmic Hospital.	10 H 2 H 1 H 2 H 1 H 1 H 2 H 1 H 1 H 2 H 1 H 1
-		dirls.	No. sent to Corporation Dispensaries-	8 :8 : : : : : : : : : : : : : : : : :
	dars.		No. Defective.	322 : 17,242 : : 62
1	Regulars.		No. referred to Ophthalmic Hospital.	: 21.6 : 1.6.44 d L 0.0.0 %
-		Boys.	No. sent to Corporation Dispensaries.	£ 1£ 1 1 1 15° 8 1 1 1 18°
			No. Defective.	£5 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
-			No. referred to Ophthalmic Hospital,	-24 - - - - - - - - -
		Girls.	No. sent to Corporation Dispensaries.	2 16 11 11 12 2 11 11 1
	ants.	-	No. Defective.	2-20
	Entrants		No. referred to Ophthalmic Hospital.	1 1-4 1 1 1-0 14 1404
		Boys.	No. sent to Corporation Dispensaries.	8 : 8 : : : : : : : : : : : :
1		410	No. Defective.	20 - 1 1 1 1 1 1 1 1 1 1
	1			
-	Billow supplies	Balange Central	Defects.	Conjunctivitis Blepharitis Granular lids Corneal opacity Corneal ulcer Staphyloma Dacryocystitis Cataract Xerosis Stye Squint Keratitis Ptosis Other conditions Defective Vision
-		1	No.	11111110987878848

N. B.-Cases not amenable to or not requiring treatment have been omitted from treatment columns,

1,279

Total defective of boys and girls,

No.

H-30

No. referred to General Hospital, 1111111111111111111111111

8429528611884835188888

OTHER DISEASES TABLE.

		Girls,	No. sant to Corporation Dispensaries.	370
	Regulars.		No. Defective.	02 # 1 1 1 8 8 14 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Reg		No. referred to General Hospital.	1 118 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Boys.	No. sent to Corporation Dispensaries.	05 gg 12 4 gg 1 1 1 1 1 1 1 1 1
			No. Defective.	06 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
oi.			No. referred to General Hospital.	1 11:11:11:11:11:11:11
. 1981-32,		Girls.	No. sent to Corporation Dispensaries.	2 T :::::::::::::::::::::::::::::::::::
	ants,		No. Defective.	2 4 : 1 : 2 : 2 : 2 : 1 : 1 : 1 : 1 : 1 : 1
	Entrants.		No. referred to General Hospital.	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Boys.	No. sent to Corporation Dispensaries.	046 88 1 1 ₈ 24 5 1 1 1 1 1 1 2 1 1 1 1 4
100			No. Defective.	04 888 888 888 888 888 888 888 888 888 8
			Defects.	Worm Wounds, Cuts, Ulcers, etc. Undescended Testis Phimosis Enlarged Groin glands Pyrexia Boils and abscesses Keloids Warts Leucodermic patches Lipoma Cyst Obesity Whillow Salivary Fistula Alopecia Orchitis Burns Tumours Cellutitis Other Conditions
1000	-	11	1	

N.B.-Cases not amenable to or not requiring treatment have been omitted from the treatment column.

Statement showing the details of defects found on Medical Inspection of Schools 1931-32.

	1		1	No F	efectiv	0	1	
No.	System or	Details.	Ent	rants.		alars.		al defec-
	Organs."		Boys.	Girls.	Boys.	Girls.		d Girls.
1	Ear	1. Otorrhoea	96	61	143	95		395
		2. Otitis 3. Other Ear Diseases	8 2	18	21	68	100	115
		4. Defective Hearing	5	5	9	14	3	33
2	Heart and	Heart Disease (a) Organic	11	4	21	13		49
	circulation.	2. Auaemia (b) Functional	24 57	13	60 53	27		89 15 0
3	Lungs.	1. Bronchitis (acute and chronic)	12757	232	338	247		1192
	7000	2. Other Non-Tuberculous Diseases	9	6	18	7	7	40
8,	Tuberculosis.	(Asthma, etc.	NO	-	1	3	1	4
4	Tuberculosis.	1. Pulmonary (a) Definite (b) Suspected	4	4	12	6		26
1		2. Non-Palmonary (a) Glauds	1	4	7	1		13
T		(b) Spine	•••	***				
5	hes 3 2 20	(c) Hip (d) Bones&Joints			:::		- 5	
0	HALL Z.	(e) Skin						
1	417	(f) Other Forms	*:	1	277		213	1
5	Abdominal Organs.	1. Enlarged Spleen 2. " Liver	64	5	54	10	13	133
2	o i guida	3. " Spleen and Liver	ï		4	i		6
5		4. Hydrocele (a) Vaginal	24		23			53
2 1		(b) Cord (c) Infantile	5		3 7			12
11	3 143 149	5. Hernia (a) Inguinal	29		48			77
01		(b) Umbilical	25		15	1		41
1		6. Stomuch conditions	1	5	6	2		14
-5	5 444 444	7. Bowel conditions	20	7	33	25		85
1	1 12 13	8. Other conditions	2	3				5
6	Bones and	9. Generative disorders in girls 1. Bones (a) Fractures	ï	4	3	5		9
0	Joints.	(b) Caries						4
97	11111	(c) Deformities	2	1	1	2		6
		(d) Diseases 2. Joints (a) Dislocations & sprains	3	1	2	1		6
- 1	****	(b) Diseases	2	1 1	2	5		10
5		(c) Deformities	7		9			16
2		3. Rickets (a) General (b) Deformed Chest	3		8	::		11
7	Nervous	1. Organic disease (Palsies etc.)	257	10	365	21		653 15
1	System	2. Functional disorders	5	3	10	2		20
8	Psychic	1. Mentally defective	10	4	15	4		33
9	System. Deformities	General Deformity	- 1		-			
-6		(a) Spinal Deformity	4	1	6	1		12
		(b) Talipes	6	8	5	2		16
		(c) Shortened Limbs (d) Congential Dislocation Hip	2		15			19
-	1	(e) Ankylosis, Joints	2	ï	2	1		3
	Tr.	(f) Amputated Limbs			1	1		2
	-Kad J	(g) Genu Varum & Valgum	4		7			6 2 11 9 8
		(h) Supernumerary Fingers (i) Flat Foot	3 2	3	3	3		9
	建产品自己	(J) Syndactily			3	1		
	- COMEO	(k) Dwarf	1					1
	O D D	(1) Other conditions	10	4	8	5		27

OTHER DISEASES TABLE.

sÃ	e of bo	Total defectiv	252 1146 1146 1188 88 88 1189 1199 1199 1199 1199 11
7	The same	No. referred to General Hospital.	1 1111111111111111111111
	Girls,	No. sant to Corporation Dispensaries.	370 11 11 11 11 11 11 11 11 11 11 11 11 11
ılars.		No. Defective.	076 4 1 1 1 1 8 8 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Regulars		No. referred to General Hospital.	1 : 18 1 : : 1 - 1 - 1 : 1 : 1 : 1 : 1 : 1 : 1
	Boys.	No. sent to Corporation Dispensaries.	05 g : 18 4 g : 1 1 1 1 1 1 1 1 1 1
		No. Defective.	08 88 88 8 4 4 8 4 4 1 1 1 1 1 1 1 1 1 1
		No. referred to General Hospital.	1 11111111111111111
	Girls.	No. sent to Corporation Dispensaries.	22 4 ::::282 :::::::::::::::::::::::::::
ints,		No. Defective.	25 4 : 1 : 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Entrants,		No. referred to General Hospital.	1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1
	Boys.	No. sent to Corporation Dispensaries.	0.50 mm = 1.50 m
		No. Defective.	64 88 8 10 4 4 15 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Defects.	Worm Wounds, Cuts, Ulcers, etc Undescended Testis Phimosis Enlarged Groin glands Pyrexia Boils and abscesses Keloids Warts Leucodermic patches Lipoma Cyst Obesity Whitlow Salivary Fistula Alopecia Orchitis Burns Tumours Cellutitis
		o N	12 8470 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

N.B.-Cases not amenable to or not requiring treatment have been omitted from the treatment column.

122

Statement showing the details of defects found on Medical Inspection of Schools 1931-32.

			1	No. D	efectiv	e.	1	
No.	System or Organs.	Details.	Ent	rants.	Regu	ılars.	tive	al defec-
	Organis		Boys.	Girls.	Boys.	Girls.	an	d Girls.
. 1	Ear	1. Otorrhoea	96	6i 18	143	95 68		395 115
	-	2. O itis 3. Other Eur Diseases	8 2	10	4			6
		4. Defective Hearing	5	5	9	14		33
2	Heart and circulation.	Heart Disease (a) Organic (b) Functional	24	4	60	13		49 89
	circulation.	2. Auaemia	57	13	53	- 27	3	150
3	Lungs.	1. Bronchitis (acute and chronic)	375	232	338	247	-	1192
77		2. Other Non-Tuberculous Diseases (Asthma, etc.	9	6	18	7	1	40
4	Tuberculosis.	1. Pulmonary (a) Definite			1	3	2	4
		(b) Suspected	4	4	12	6	- 7	26
250		2. Non-Palmonary (a) Glands (b) Spine	1	4	7	1	- 3	13
		(b) Spine (c) Hip		***			1	
11 1	37 1 1 1	(d) Bones&Joints						
-		(e) Skin (f) Other Forms		ï		•••		ī
5	Abdominal	1. Enlarged Spleen	64	5	54	10		133
3	Organs.	2. " Liver		1	1	4		6
77	1 3 2 3	3. " Spleen and Liver 4. Hydrocele (a) Vaginal	1 24		29	1		53
		(b) Cord			3			- 3
-		(c) Infantile	5		7			12
	: 11 73	5. Hernia (a) Inguinal (b) Umbilical	29 25		15	1		77 41
1		(c) Femoral						
3-3		6. Stomach conditions	1	5	6	2		14
	1 -1 -	7. Bowel conditions 8. Other conditions	20 2	7 3	33	25		85 5
2		9. Generative disorders in girls		4		5		9
6	Bones and	1. Bones (a) Fractures	1		3			4
	Joints.	(b) Caries (c) Deformities	2	ï	ï	2		6
		(d) Diseases	3	1	2	ī		6
1	43 7 3 3	2. Joints (a) Dislocations & sprains (b) Diseases	2	2 1	2	4		10
1		(c) Deformities	7	1	9	5		16
		3. Rickets (a) General	3		8			11
7	Nervous	1 Oscania dinagra (Pulsias ata)	257	10	365	21		653
30	System	2. Functional disorders	3	3	10	2 2		15 20
8	Psychic	1. Mentally defective	10	4	15	4		33
9	System. Deformities	General Deformity	-		-	13-1		
3	2010131110	(a) Spinal Deformity	4	1	6	1		12
		(b) Talipes	6	3	5	2		16
1		(c) Shortened Limbs (d) Congential Dislocation Hip	4 2		15			19
		(e) Ankylosis, Joints	2	ï	2	ï		3 6
-	9	(f) Amputated Limbs			1	1		2
1	- 1961	(g) Genu Varum & Valgum (h) Supernumerary Fingers	3	3	7 3			11
1	1 4 3	(i) Flat Foot	2		3	3		9
	57.18.3	(j) Syndactily (k) Dwarf	-::		3	1		4
	The same	(1) Other conditions	10	4	8	- 5		27
_		(i) other conditions		-		. 1		5
-			1000			400.000	100	-

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Statement of Following up work done showing the results of Medical advice, 1931-1932.

No.	Headings.	Diseases.	Operations performed after medical advice.	No. of cases cured after treatment	No. of cases im- proved after trea/ment.	No. of cases where treatment was continued.	Remarks
1		Malnutrition		323	605	108	10 Honeys
. 2	Teeth & Mouth.	Dirty teeth	5*		88		*Cleaned by a dentist.
		Caries teeth	10†	72‡	21	20	†Extracted. ‡Filled up or fallen out be- ing replaced
	Carlotte Jan	Stomatitis	1000	501	198	163	by healthy teeth.
	The state of the s	Gingivitis		1			10000
21	monthly	Tongue Tie	1				
3	Nose & Throat.	Nasal Catarrh and Rhinitis.		105	2	4	100
		Nasal Polypus Enlarged Tonsils Granular Pharynx	38	567 14	675	58	
4	Eye Diseases	Conjunctivitis		104	3		
	. 7	Xerosis		25			
Jon S	169 14 1500	Granular lids		14	22	5	1000
	112300	Stye Blepharitis		9 3			
		Cataract	1 0				
491	The state of the s	Dacryo-cystitis	1				
	1	Defective Vision	10(a)	13(6)	13(c)	8(d	(a) wore glasses 6; could not
the	-		- 1				purchase glasses due to poverty 4; b, c, d took Cod- liver Oil, Milk,
-5	Ear Diseases	Otitis		37	***		etc.
		Otorrhoea		119	47	11	1
		Mastoid abscess	1				18 0 80
	1	Polypus Ear	1	****		1	10.725
6	Circulatory Sys-	Functional diseases		30 2	35	1 1	
		heart. Organic diseases of the heart.				. 9	
7	Tuberculosis	Pulmonary-			1	1 .	
	The state of the s	(a) Suspicious	1	11	7	8	4 (left the
	13 14 1	(b) Definite			***		school),
-8	Respiratory Diseases.	Bronchitis Bronchial Asthma.	2000	241	9	1	Py 11
		D 1 10-1		55	35	2	
.9		Enlarged Spleen Liver			1		1
	Organs.	", Spleen and liver.		5	1		
	11. 11.	Inguinal Hernia		2§			Wearing Truss
	1	Umbilical "	The state of the s	7			
13	19 19 19 19	Diarrhoea Dysentery	1	9			
		Intestinel colic	0.00	9			
	1000	Retention of Urine.					
		Dysmenorrhoea		1			
	1	Nephritis		1	***	***	1

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Statement of Following up work done showing the results of medical advice 1931-1932.—contd.

Diam'r.		the same of the sa				N	1 37	
1		-101	10	Operations	No. of	No. of	No. of	1000
1	Second Samuel			performed	cases.	cases	cases where	
No.	Headings.	Diseases.		after	cured after	improved	treatment	Remarks.
			1000	medical	treatment.	after	was	
-	Deput			advice.	deathent.	treatment.	continued.	
1	100	103	- mini-	-			24	112 124
10	Bones & Joints.	Rickety Chest		4++	26	14		11
		Fracture clavic	le	1				X'rayed and
25 10	Callette		11	0 10	1160	and the Air	Ter Justion	set up a
	ALIFE ME		7772	and a state of	1000			General Hos
-	STOREST US		199	1989	100	3110 F 155	104 5 10	pital.
35.91	- British		113			19.00		
11	Infectious and	Scabies			1145	31	1	
2011	Contagious		1000	***	66	30	î	
	Diseases.	Leprosy	1777	***	3	28	37	9 left school
1	Discuses	Leprosy		***		1179		15 refused. In
	441		10		100	- 12 - 100		different 13
	3 3		3020		- Board		625 Jacons	
		D:				. 00		proved 3.
		Ringworm	***	***	58	22	***	
-	9 93	119	138	2 3 35 3	1000		100	
1			317					
		Lichen			13		***	
1		Dermatitis			1	***		Sec. 41. 8
1	***	Malaria			76	20		THE DATE OF
	****	Hookworm			6	33	1	
1	1	Whooping Con	ugh		22			2 left school.
1		Mumps			7	***		
1		Filariasis				1		2 not under-
1			1999	1000	1988	30000		going treat-
. 1		***			100	OF STREET		ment.
Section 1	MENTON POR	Pruritis			1			A PROPERTY OF
attitle	THE COLUMN	Phemphigus			1			F06.00 F66
:3 2215	Squites	Gonorrhoea	2000	1	2			1 left the
4D000 S	1144	Conomination			-		100	school.
Surrey .		Enteric fever			1			
1		Influenza	***	• • •	2		10 Lines	5 Early
10		Influence	1		-	***	0	F-10-10-10-10-10-10-10-10-10-10-10-10-10-
12	Other diseases	Worme	100	The State of the S	655	THE PERSON NAMED IN	Sept 1 was a long	THE PARTY OF THE P
	and defects.	Wounds, cuts,	ulcere		151	10 3 10 10 1	4	Sales Sales Sales
-	and defects.	etc.	dicers		101			
-		Boils and absc	00000		61	CARROLL	ALC: 1995 915	Marina Direction
1					33	in the same	8 33	ATT I
		Pyrexia		•••	2	•••		THE PARTY NAMED IN
1	1 4	Leucodermic	pat-		2	***	***	Contract to the
		ches,			1000	Sant all		1000
1		Phimosis		46		- ***	100	Sanday V
1	1 8 1	Whitlow			1	•••	***	The state of the s
mail 1	1000	Cellulitis			1	***		1000
1	-	D.L.				1	A THE PARK I	13 12 1 13
13	Nervous and	Palsies	***	•••		1	1	Constitution of the
	Psychic sys-			100	7000	2	4	range +
	tems.	Epilepsy						

123
Statement of Following up work done showing the results of Medical advice, 1931-1932.

No.	Headings.	Diseases.	A selection	after medical advice.	No. of cases cured after treatment	cases im- proved after treatment.	cases where treatment was continued.	Remarks
1		Malnutrition	5		323	605	108	To Horse
. 2	Teeth & Mouth.	Dirty teeth		5*		88		*Cleaned by a
*101L	1619	Caries teeth		10†	72‡	21	20	dentist. †Extracted.
3.5						a late	of time and	fallen out be- ing replaced
Joeda	and a los	Stomatitis			501	198	163	by healthy teeth.
ALL THE	riamin (5)	Gingivitis Tongue Tie	***	1	1			The same of
101	N	The second second			***		***	
3	Nose & Throat.	Nasal Catarrh- Rhinitis.	and	***	105	2	4	
	""	Nasal Polypus		1		man er		
		Enlarged Tonsil Granular Phary	s	38	567 14	675	58	
4	Eye Diseases	Conjunctivitis			104	. 3	g	1
	mail I	Xerosis			25			1
-toons	5 3121 C	Granular lids Stye		***	14	22	87	
-tobre	tion 0	Blepharitis			3			
distrib	000	Cataract		2				
1	Inotit .	Dacryo-cystitis Defective Vision		10(a)	13(6)	13(c)	8(4)	(a) wore glasses
				20(4)	10(0)	20(0)	0(4)	6; could not
oil)	Joods'		E I			A Well Labor	6	purchase glasses due to powerty 4; b, c, d took Cod- liver Oil, Milk,
5	Ear Diseases	Otitis			37	Dan Con		etc.
	1000	Otorrhoea			119	47	11	
	100	Mastoid abscess Polypus Ear		1		····	To att the	mina di
		and a second			***	I hospitaling	1	Dar.
6	Circulatory Sys- tem.		eases		30	35	1	
	tem.	heart,	cases		2	10000		
		Organic diseases	s of				9	
7	Tuberculosis	(a) Suspicious			11	7	8	
	100	(b) Definite						4 (left the
		D. Just			044	0	Sin inne	school).
-8	Respiratory Diseases.		nma.		241	9	1	Payed
						- Kanaa		10131
9.	Abdominal Organs.	Limor			55	35	2	
	Organs.	" Spleen	and		5	î		
		liver.		2	95			
1	The second second	Inguinal Hernia Umbilical "	***	3 1	2§			Wearing Truss
1	1000000	Diarrhoea "			7			
1		Dysentery			9 9			
		Intestinel colic Retention of U	rine.	1	9			
		Dysmenorrhoea			1			
-	1000	Nephritis			1			

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Statement of Following up work done showing the results of medical advice 1931-1932.—contd.

No.	Headings,	Disease	s.	Operations performed after medical advice.	No. of cases. cured after treatment.	No. of cases improved after treatment.	No. of cases where treatment was continued.	Remarks.
10	Bones & Joints.	Rickety Ches Fracture clavi	t	1		14	O Marie	X'rayed and set up at
79.59	THE STATE OF	12	1287	101		Charles and		General Hos- pital.
11		Scabies			1145	31	1	7000
SHALL	Contagious				66	30	1	Control of
	Diseases.	Leprosy			3	28	37	9 left school.
								15 refused.In- different 13. Parents im-
			196	3 3 44	1000		January D.	proved 3.
		Ringworm		1	58	22		
	100	111	100		lin of	on business	E N	
	***	Lichen			13			1000
. 1		Dermatitis			1		9	
- 1		Malaria			76	20		
	***	Hookworm			6	33	1	
4		Whooping Co	ough		22			2 left school.
1		Mumps			7			
		Filariasis		***		1		2 not under- going treat-
STORES.	STORES TOPS I	Pruritis	10120	2001		11/10/10		ment.
The state of		Phemphigus			1			
	203	Gonorrhoea			1 2			1 left the
200	10 011	Enteric fever			1			school.
	The same	Influenza			2		3	
12	Other diseases	Worms			655		1	
	and defects.	Wounds, cuts, etc.	ulcers		151			
		Boils and abs	cesses.		61			
-		Pyrexia			33		1	
1	19	Leucodermic ches,	pat-		2		0	
		Phimosis Whitlow		46	1		-	many e
	LIVE F	Cellulitis			î			
13	Name	Dili	313			11 1550	The same of	1000
19	Psychic sys-	Palsies	(0			1	1	9198 8
1	tems.	Epilepsy				2	4	The state of the s

WATER ANALYSIS (STATEMENTS.)

Table I .- Showing the work done at the Laboratory during 1931.

Chemical Examination		4266
Bacteriological Examination		2328
	Total	6594

Table II.—Showing the Monthly average Lake Level and Rainfall at Red Hills-Lake in 1931.

Months.	Lake level expressed in feet.	Rainfall expressed in inches.	Remarks.
January	 65-87	0.20	/
February	 65.39	Nil	Total Rainfall in 1930 75-29
March	 64.04	Nil	,, ,, 1931 56-12
April	 62.85	1.72	
May	 62-60	0.70	
June	 61.80	2.85	
July	 61.38	4.99	THE REAL PROPERTY.
August	 62-97	2.73	
September	 63-16	4.96	
October	 64.26	8-60	
November	 64.49	16.78	
December	 64-47	12.59	
Average	 63-61	4.68	1842 814

Table III-Showing the Bacteriological Results for 1931.

79	Is Lake. Rilpauk end of Chlorinated R. W. conduit. Raw water. Total L. F. in Total L. F. in Total L. F. in Colonies 60 C. W. colonies 60	Rilpauk end of Chlorinated R. W. conduit. Raw water. L. F. in Total L. F. in Total L.	Chlorinated Raw water. L. F. in Total L	nated vater. Total L	nated vater. Total L	79	Filtrates from Beds.	s from ds. Total	Filtered water from Central con- duit & Test Tap. L. F. in Total	water tral con- est Tap. Total	Distribution system. L. F. in Tota	0 (1)	Remarks.
per c.c. upwards.	per c.c. upwards.	upwards.	5 04	per c.c.	upwards.	The second	per c.c. upwards.	per c.c.	upwards.	per c.c.	per c.c. upwards.	per c.c.	
2 4 5	4		2		9	7	8	6	01 .	11	12	13	14
100% 900 106% 940 1	106% 940	940	-	-	100%	220	48.1%	420	0/00	650	14.30/0	520	Yesh
February * 100% 840 90	100% 840	8.40	-	06	%6.06	270	47.4%	430	18.20/0	570	33.30/0	620	
0% 1,000 66.6% 950 10	09-99	950		1(100%	270.	33.3%	530	4.80%	620	0/00	160	
100% 800 92.9% 870 91	92.9% 870	870		91	91.1%	240	34 6%	480	42.90/0	470	250/0	480	
100% 820 88.9% 870 100%	88.9% 870	870		10	80	210	46.0%	480	16.7%/	520	0/00	290	
100% 840 88.9% 850 100%	88.9% 850	850		100	26	190	47.0%	420	16.70%	530	16.7%/	490	
100% 1,160 77.8% 990 100%	066 %8.71	066		100	36	290	32.7%	550	41.20/0	530	40.00/	400	
August 100% 1,200 60.0% 1,070 100%	60.0% 1,070	1,070		100	38	220	18.4%	610	20.00%	610	40.00/0	290	
September. 100% 1,090 100% 880 100%	1,090 100% 880	880	-	10	38	220	15.0%	990	41.20/0	550	33.30/0	440	
October 66.6% 1,030 100% 900 10	100% 8001	006	1	10	100%	250	35.8%	510	16.7°/	620	33.30/0	650	
* 57.1% 1,030 100%	57.1% 1,030	1,030		100	30	220	15.4%	260	40.00/0	510	0/00	710	200
100% 1,000 42.9% 1,070 100%	42.9% 1,070	1,070	1	100	38	250	22.2%	260	14.30/0	099	75%	470	-
Average 86.7% 984 81.3% 938 98-	984 81.3% 938	938		98.	%9.86	238	33.0%	512	22.70/0	920	25.90/0	260	
				-		Samples wer	* Samples were not collected	-	-	-			-

Table IV.-Showing the Chemical Results for 1931 (expressed in parts per 100,000).

1	wo .	Oxygen absorbed.	18	0.072 0.082 0.083 0.080 0.080 0.080 0.080 0.076 0.096 0.120 0.073	0.089	0
-	Distribution system.	Albuminoid Nitrogen.	17	0.023 0.020 0.021 0.026 0.036 0.034 0.034 0.020 0.020 0.020 0.020 0.020 0.020	0.024	
	Q	Ammoniacal Nitrogen.	16	0.003 0.007 0.003 0.004 0.012 0.014 0.014 0.004 0.003	200-0	
	r from iduit ap.	Oxygen absorbed.	15	0.108 0.094 0.094 0.114 0.109 0.1118 0.1118 0.113 0.113 0.113 0.102 0.102	0-111	
1	Itered water fro Central conduit & Test Tap.	Albuminoid Nitrogen.	14	0 021 0 0023 0 0023 0 0037 0 0038 0 0024 0 0028 0 0028 0 0029 0 0019	0.025	
1	Filtered Centra & To	Ammoniacal Nitrogen.	13	0.012 0.007 0.007 0.012 0.025 0.025 0.017 0.018 0.018	0.017	
1	from	Oxygen absorbed.	12	0.085 0.093 0.093 0.136 0.136 0.142 0.173 0.180 0.176 0.130 0.088	0.132	
	Filtrates fi Beds.	Albuminoid Nitrogen.	=======================================	0.022 0.022 0.032 0.032 0.032 0.024 0.022 0.018	0.026	
	Filt	Ammoniacal Nitrogen.	10	0.010 0.008 0.008 0.008 0.026 0.027 0.020 0.020 0.020 0.020	0.017	cted
	ed er.	Oxygen absorbed.	6	0.110 0.093 0.123 0.145 0.114 0.128 0.143 0.125 0.105	0.120	* Samples were not Collected
-	Chlorinated Raw-water.	Albuminoid. Nitrogen.	00	0.029 0.029 0.031 0.045 0.052 0.028 0.027 0.025	0.035	ples were
	28	Ammoniacal Nitrogen.	2	0.001 0.001 0.002 0.002 0.002 0.002 0.003	0.003	SAM.
	d of duit.	Oxygen absorbed.	9	0.141 0.139 0.128 0.128 0.159 0.152 0.153 0.153 0.154 0.153 0.153 0.153	0.140	
	Kilpauk end of R. W. Conduit	Albuminoid Nitrogen.	10	0.040 0.035 0.035 0.055 0.055 0.055 0.021 0.028	0.038	
-	Kilp R. (Ammoniacal Nitrogen.	4	Trace 0.002 0.002 0.001 0.001 0.006 0.006 0.002 0.003 0.003	0.003	17 17
-	ake.	Oxygen absorbed.	60	0.123 Trace 0.122 0.005 0.082 C.005 0.138 0.001 0.133 0.006 0.133 0.006 0.153 0.006 0.153 0.006 0.165 0.005 0.143 0.007	0.139	
1	Red Hills Lake.	Albuminoid Nitrogen.	63	0.031 0.032 0.034 0.037 0.037 0.037 0.033 0.032 0.026	0.033	I III
-	Red	Ammoniacal Nitrogen.	1	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	0.001	The Party of
The state of the s	1931	Months.		January 0-002 February 0-002 April Trace May 0-002 June 0-002 July Trace August 0-002 September. 0-001 October Trace November	Average	

Table V.—Showing the determined dose (according to Sims-wood-head Field Test) and the applied dose of chlorine for raw water.

		Parts per	million.	
1931 Months.		Determined dose.	Applied dose.	Remarks.
January		1.0	1.5	
February		1.1	1.5	1 100000
March		1.1	1.5	1
April	1	1.1	1.5	
May		1.0	1.5	1
June		1.2	1.5	1 3 3 5 6 6
July		1.0	1.5	1000000
August		1.0	1.5	Till 13-8-1931
September		0.9	1.0	
October		0.9	1.0	
November		0.9	1.0	
December		0.9	1.0	

Table VI .- Showing the Length of Runs of Filters at work, during 1931:

Bed No.	Total No. of Runs during the year.	Total No. of days.	Average No. of days per Run.	Remarks.
1	5	243	49	
1 2 3	5 7 5 5 5 6 5 4 7	244	49	
3	7	249	36	
4 5	5	174	35	
5	5	259	52	
6	5	250	50	
7 8 9	6	229	38	
8	5	240	48	
9	5	255	51	
10	4	248	62	
11		210	30	
12	. 6	241	40	
13	6	239	40	
14	6	263	44	
15	4	271	68	
16	3	221	74	
17	4	222	56	
1911	Average life of	a filter.	16 days per Run.	

N.B .- Average worked out to the nearest integer.

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Table VII.—Showing the quantity of water filtered during the year 1931.

D. d	Quantity of wa	ter expressed ons filtered at	Total quantity	NO TROTTER		
Be d No.	4" vertical and below per hour-	6" to 8" vertical and below per hour.	of water filtered in million gallons.	Remarks		
1	8.00	407-50	415.50			
2	5.00	410.00	415.00			
3	10.00	416.00	426.00			
4 5	14.00	269.00	283-00			
	1.00	454.50	455.50			
6	9-50	432.00	441.50			
7	4.00	389-00	393-00			
8	9.00	404.50	413-50			
9	3.00	398.00	401.00			
10	4.00	442.00	446.00			
11	18.00	336-00	354.00			
12	18-00	379.00	397-00			
13	0.75	348.25	349.00			
14	5.00	449.00	454·00 478·20			
15	0.00	478-20	471-32			
16	60.00	411.32	510.00			
17	0 00	510.00	310.00			
	Total quantity	CONTRACTOR STATE	7103-52			

H-32

REPORT ON THE WORKING OF THE CHILD WELFARE SCHEME CORPORATION OF MADRAS FOR THE YEAR ENDING 31st DECEMBER 1931.

There has been a remarkable increase in the work turned out by the staff of the Child Welfare Scheme in the various branches of its activities, during the year under review. To take an instance, in Ante-Natal work which forms an important part of the activities of the Scheme, the out-door activities of Health Visitors have met with a success and response which is unprecedented. Out of a total of 13,315 pre-maternity cases registered, 9,442 expectant mothers sought medical advice and treatment in the Child Welfare Centres.

The 82 midwives of the C. W. S. have attended on 13,514 labour cases during the year under review i.e., each midwife had attended on an average 165 labour cases. The work of a midwife does not cease with the management of labour and the birth of the child. She has to visit the mother and the child daily for the next ten days and see that both emerge as healthy individuals from the puerperal period. Only 50 out of the 82 midwives actually conduct labour, the rest being employed in attending to post-natal work for ten days. While the numbers are constant, the individuals change and work by turns. The average, therefore, should be worked out for 50 midwives on 13,514 labour cases including those taken over from barber midwives and those sent to Hospitals and this works out to 270 per midwife per year. If, however, the total number of labour cases actually conducted by the midwives alone, which is 10,449, is taken into consideration, the average works out to 208 per midwife, per year.

On financial consideration substitutes were not appointed in short vacancies of a month and less caused by midwives and Health Visitors going on leave. Work was carried on without extra cost; the consequence being that very often Centres had to work under great disadvantages.

One difficulty experienced in ante-natal work is the registering of prematernity cases. At present this is done by the Health Visitors as and when they meet with such cases in their divisional rounds. There is an element of chance in this method of registration. A half yearly census of the expectant mothers in the city ought to be undertaken and each Health Visitor provided with a list of the expectant mothers residing in the divisions in which each works. Unless this is done by a separate staff, the work of the Health Visitors is not likely to be comprehensive.

Incidentally, such a census will prevent the rich middle classes availing themselves against rules of the free medical and maternity aid offered by the Corporation only to those expectant mothers whose husbands earn Rs. 100 and less per mensem. At present, there is no means to check the entries made under this head by the relatives of the expectant mothers in the Registers at the Centres. It is suspected that a large percentage of those whose income exceeds Rs. 100 get free maternity aid.

The Government in their Order No. 1160 L. & M. dated 1st April 1932 have stated that the Director of Public Health has pointed out that free milk and hot baths do not constitute child welfare, that personal instruction to each mother as she brings her child is inadequate and that the work of the child welfare section should be reformed and placed on a more modern and educative basis. The various points raised have been borne in mind in working out the scheme.

PERSONAL.

Mrs. D. Devanesen, Lady Superintendent, was on leave from 6-1-1931 to 10-5-1931 and Mrs. H. V. Kamalammal, Lady Doctor, Triplicane Centre acted in the vacancy. Miss. M. P. Smith acted in the Triplicane Centre.

WORK OF THE STAFF.

The total number of visits paid by the 13 Lady Doctors rose to 15,766 as against 14,975 in 1930 (Vide statement VII). The Lady Doctors treated 4,124 morbid cases (puerperal) as against 3,884 of the previous year. The number of women and children treated at the out-patients clinics was 2,37,285 as against 2,02,441 of the previous year. The average daily attendance of women and children at the out-patients clinics in all the Centres was 684 as against 600 in 1930. The total number of visits paid by the Health Visitors was 1,48,160 as against 1,27,320 in the previous year and the total number of pre-maternity cases registered by them was 13,315 as against 11,292 in 1930. Of these 9,442 expectant mothers actually attended the centres for medical advice and treatment as against 8,540 in the previous year. The increase in the number of expectant mothers who sought advice is a measure of the greater appreciation of the ante-natal work done by the C. W. S. The outlook of these women is doubtless changing due to the persistent efforts of the Health Visitors.

During the year under review, 13,514 cases of labour which is 52 per cent. of the total number of births in the city came under the care of the Scheme as against 49 per cent. in the previous year. Of these 10,449 cases were actually conducted by the midwives, 1,821 cases were taken over after the barber midwife had conducted the labour and 1,244 cases were sent to the various maternity hospitals in the city. The latter cases were mostly complicated ones which could be dealt with only in Hospitals. The rest which were normal cases had to be sent to hospitals on humane grounds and at the request of the patients themselves as in some instances, there was no accommodation while, in others, there was no-body to attend on the destitute mother. In the absence of a Maternity Home, the only course left open was to get these normal cases admitted into hospitals. Of the 10,449 labour cases, 2,077 were Mohamedans (Vide Statement VII). There are, at present, 31 Health Visitors and 82 Midwives in the Scheme.

ANTE-NATAL WORK.

The total number of pre-maternity cases registered, as has been already stated, was 13,315 as against 11,292 in 1930. The response of the expectant mothers to this line of activity in the Scheme has been remarkable. No less than 9,442 expectant mothers which is roughly 70 per cent of the registered cases sought medical advice and treatment. The Lady Doctors examine the expectant mothers and treat them after the examination according to the nature of each case. The expectant mothers are requested to attend the Centres once a month during the first six months of pregnancy, once a fortnight during the seventh and eighth months and once a week during the last month.

Very often expectant mothers with acute toxaemia of pregnancy come under the observation of the Scheme. These patients require ante-natal and post-natal treatment in hospitals rather than at a Child Welfare Centre of the Corporation and every effort is being made to induce the parents of such patients and patients themselves to seek medical treatment in a hospital before confinement. The C. W. S. cannot be a substitute for hospitals where alone a strict dietetic treatment and watchful nursing necessary for such diseases of pregnancy can be enforced and obtained. However, there have been cases of toxaemia expectant mothers unwilling to seek treatment in a hospital. Such persons will have to be forcibly removed to hospitals. But the Corporation is not vested with power by any Act of Legislation to adopt any such co-ercive measure. It therefore so happens that certain patients are admitted into the hospitals at the eleventh hour in a moribund condition, in spite of the vigilant antenatal work of the Child Welfare Scheme. In a few instances, at the request of the relatives, the patients are handed over to private medical practitioners.

This aspect of ante-natal work requires detailed investigation and careful consideration. The Council has appointed recently an Ad Hoc Committee to report on the working of the Child Welfare Scheme. The working

of the scheme in respect of the pre-natal work will also receive consideration by the Committee.

CASES OF ABORTION.

The total number of abortions treated during the year under review was 274 as against 257 in the previous year. Of these 109 were conducted by the Staff, 19 were taken over after the barber midwives had taken part and 146 difficult cases were sent to Hospitals (Vide Statement VI).

MATERNAL MORTALITY.

Out of a total of 13,514 labour cases which came under the observation of the scheme, 82 were cases of maternal mortality of which 62 occurred among complicated cases sent to hospitals, 9 among cases which first came under observation but subsequently were handed over to private medical practitioners at the request of the relatives and 3 came to the notice of the Scheme first but later were taken over by "Vydians" at the request of the relatives. This leaves only 8 deaths which actually took place while under the care of the Scheme (vide Statement IV)

INFANTILE MORTALITY.

There is a decline in the infantile mortality rate which is 139.5 per mille as against 157.2 of the previous year. This is the lowest on record. Of the 12,600 labour cases which came under observation, 23 were twin births; and the actual number of births were 12,623. Of these 418 were still births; of the live births 1,703 died during their first year of life (vide Statement VIII) and 463 died within the first ten days owing to their low vitality. The deaths were largely due to intestinal disorders (365), fevers (314), respiratory disease (216), nervous disorders (130), small-pox (35) etc. (vide Statement IX).

AMBULANCE SERVICE.

The total number of calls answered by the Ambulance was 581 as against 459 of the previous year.

FREE MILK SUPPLY.

805 babies received free milk as against 717 of the previous year. The average daily attendance was 471-4 as against 427-1 of the last year.

Babies who are given free milk are selected with great care as to their circumstances. Under no circumstance is it given to babies whose parents are not poor, nor is poverty the only condition imposed. From among the poor babies, those who come under any of the following are selected;

- (1) Motherless babies;
- (2) Twins and triplets; the poor and ill-nourished mothers.
- (3) Babies whose mothers suffer from breast abscess and from grave constitutional diseases like anaemia, tuberculosis, heart disease etc., where breast feeding is contraindicated or impossible;
- (4) Babies of destitute mothers who do not have sufficient milk owing to want of nourishment.

Free milk is given to deserving babies. No child welfare work of any description can omit in a city such an important item of work as the distribution of free milk to the very poor and absolutely needy infants. Milk is the staple food for a growing baby during its first year of life and while an infant therefore is solely dependent on the mother's milk and where breast feeding is not satisfying or is impossible, it is only humane that child welfare workers should offer that infant cow's milk in addition or instead. The duty of the child welfare worker lies undoubtedly in preventing the child dying of starvation.

BATHING OF CHILDREN.

During the year under review, 1,37,394 warm baths were given as against 1,18,824 in the previous year and on an average 376 children were bathed in all the Centres as against 309 of the previous year (Vide Statement XI) it is mostly milk-babies, one year and below, who are bathed and if children above a year and below five who attend the centres are badly in need of baths, they are also bathed. Baths to the latter group are optional but are made compulsory to milk-babies. The mothers are taught how to bathe their babies under the supervision of the nurse. The preventive value of baths to babies is undeniable, particularly in skin diseases.

Without bathing of infants, child welfare work will be incomplete. In the City of Madras there are numerous slums where water supply is inadequate and sanitary conditions are far from satisfactory and to the children living in such slums, a warm bath with soap is a luxury. Under such circumstances, mere talk on personal cleanliness of babies will be ineffective. Baths in the centres are object-lessons to the illiterate and ignorant mothers and at the same time they serve to promote the health of the babies who are reared under most trying unhygienic conditions.

HEALTH PROPAGANDA WORK.

542 lectures were delivered at the various Child Welfare Centres as against 454 of the previous year. Of these 195 lectures were delivered with the aid of Magic Lantern as against 185 of the previous year. There were 11 lectures with cinema films as against 6 of last year. There were 336 out-door lectures, The average attendance was 52.

Three Divisional Health Exhibitions in which C, W. S. participated were held in the 24th, 26th and 29th divisions during the year under review-The public appreciated these exhibitions by attending in large numbers. The day set apart for ladies was particularly popular.

The present staff of Lady Doctors have been on the whole doing very appreciable work in the field and educating the indigent and illiterate mothers has been from the beginning a part of their work. They go into the hearts of slums and give talks on hygiene and on various subjects relating to maternity and child walfare in addition to the Cinema and Magic lantern lectures given by them in the Centres which procure good attendance of women and children listening with rapt attention. In the out-patients clinics, relevant advice to each mother as she brings her child is given as a routine practice; but, owing to the large number of patients, such talks are brief and limited. But this dificiency, is more than compensated by the talks given by the Health Visitors in their homes, the Cinema and Magic lantern lectures and the out-door lectures in the interior of slums given by the Lady Doctors.

THE CITY HEALTH AND BABY WEEK.

The City Health and Baby Week was celebrated for a week commencing from 13th January 1931 at the S. I. A. A. grounds under the joint auspices of the Corporation of Madras and the National Health Association of Southern India.

The Maternity and Child Welfare section consisted of the following:

- Out-patient clinics.
- Ante-Natal clinics.
 Milk depot.
- 4. Baby stall.
- 5. Clean Mid-wifery Room

The most interesting item in the programme of the exhibition was the Baby Show which was held on the 16th January 1931. The Baby competition was opened to all both rich and poor. Nearly 500 babies competed. The judging of babies was held in a separate enclosure and lasted from 8 to 11 A. M. Dr. (Mrs.) Monahan, Dr. (Miss) P. Samuel, Mrs. Hensman, Mrs. Hannen Angelo, Dr. P. Sadasivan and Dr. Lakshminarayana took considerable pains in judging the babies. Each baby was given a yard of cloth. The mothers were fed free by the proprietor of the Arya Bhavan restaurant.

In the evening at 5-15 P. M. Mrs. Conran Smith was kind enough to distribute the prizes to the babies and mothers, 64 babies and 4 mothers received prizes of which 45 belonged to the Child Welfare Scheme.

Special prizes were given for the following :-

- 1. Best baby of the whole show.

- Best Muslim Daby
 Best Adi Dravida baby
 Anglo-Indian baby
- 4. Best Anglo-Indian baby
 5. Best Indian Christian baby
 6. Best European baby
 7. Best Brahmin baby.

- 8. Best Non-Brahmin baby.
 9. Best baby of the Child Welfare Scheme.
 10. Best Twins and Triplets

- 11. Best Indian baby12. Best Nursing Mother.

GOSHA DAY.

The sixth day was specially set apart for ladies as Gosha Day at which several prominent ladies graced the occasion with their presence. All the stalls in the Exhibition were in the hands of the ladies on that day. There was a very large gathering of women from 8 A.M. to 6 P.M.

Srimathi Alemalu Mangathayarammal, M.L.C., lectured to the ladies on Hygiene and Infant welfare.

THE LAST DAY.

Her Excellency visited the show and distributed the prizes to various departments. Three medals were awarded to the Child Welfare Scheme.

> 1. Gold medal ... for Baby Stall. 2. Silver medal... for Milk Depot.

3. Silver medal... for Ante-Natal Stall.

Corporation of Madras. Ripon Building. Madras. 18-8-'32.

D DEVANESEN. Lady Superintendent. Child Welfare Scheme-

CHILD WELFARE STATEMENTS.

STATEMENT 1.

Showing the cases of labour which came under the observation of the staff of the Child Welfare Scheme from

		H	How Conducted	-		Ö	Caste.	
Period.	Centres.	By Nurses of the C. W. S.	By Nurses Taken over after of the conducted C. W. S.	Taken to Hospitals.	Cases.	Maho- madan.	Non-Maho- madan.	Remarks.
From 1st lanuary to 31st December 1931	Triplicane	1,543	118	33	1.694	718	916	
	Washermanpet		226	139	1,293	199	1,093	
	Purasawalkam		88	91	984	41	943	
	George Town	1,488	188	206	3,886,	72	1,810	
	Nungambakam		200	193	0000	000	1 010	
	Mirsaibpet		130	125	1,244	625	21012	
	Domanicam		101	996	1,050	117	1136	
	Perambur		107	620	988	216	706	
			06	99	780	77	703	- American
	Royapettah		168	34	678	64	611	
			153	103	1,035	46	686	
	Total for 1931	10,449	1.821	1.244	13,514	2,017	11,437	
			1,738	1,129	12,600	2,027	10,573	
			1,796	1,027	11,416	1,862	9,546	
			1,541	1,136	10,893	1,967	8,926	
			1,491	1,248	10,161	1,827	8,334	
	1926		1,005	945	8,253	1,484	692'9	
			1,243	933	8,294	6,807	1,487	
		5,163	1,216	644	7,023	5,598	1,425	
	1923		1,097	366	5,820	4,638	1,074	
	1922		1,213	368	5,549	4,475	1,047	
	1921		796	256	4,112	8,281	831	
			672	203	3,828	::		
	-	978	108	87	1,173	612	199	
			-		100			

STATE Prematernity cases registered and diseases and

																1	
Serial No.	Centres.	Constipation.	Anaemia.	Malaria	Albuminaria.	Worms.	Bronchitis.	Dysentery.	Influenza.	Diarrhoea	Retention of Urine.	Torpid Liver	Oedema & swelling.	Fever.	Skin affections.	Syphilis.	V. D. H.
	1 1 1 1 1 1 1	-	12					100		131	18						
1	Triplicane	371	129	53	84	23	45	35	27	22	8		17	21	17		1
2	Washermanpet	189	16	17	8	35		11	7	2	16		6	22	9	2 2	15
3	Purasawalkam	308	110	29	27	44	91	85	70	63	13		60	78	6	3 10	4
4	George Town	624	385	163	125	48	85	89	28	44			0	88	19	1 3	
5	Nungambakam	161	66	22	37	29	56	16	2	3			3	19	15		
6	Mirsaibpet	384	112	5	22	8	30	19	8	18				10	1		4
7		151	10	35	47	294	47	16	19	19	18	14	8	29	5	9	
8	D	531	32	18	99	2	54	21	11	9	10			18	1		
1000		1000000	1000	1999				1		37	1000	***			6	1	
9	Perambur	347	36	12	106	7	50	16	8	6	4	***	6	7	6	2	
10	Egmore	98	29	1.3	23	2	20	19	8	21	12		9	16	30	1	
11	Royapet	92	24	10	17		46	8		6	3		4	9	5		2
12	Ch oolai	485	9	2	26		32	19	3				3	25	1		1
							-			-							
	Total	2,741	953	379	621	192	556	354	191	213	84	14	126	324	120	9 25	43

Total for 1931-1930-1929-1928-1927-1926-1925-1924-1923--

MENT II. ailments of Pregnancy treated at the Centres in 1931.

Rheumatism.	Otorrhoea-	Jaundice.	A. P. H.	Pnuemonia.	General Anasarca.	Asthma.	Breast Abscess.	Gastritis.	Conjunctivitis.	Flatulence.	Hysteria.	Enteritis.	Stranguary.	Morning Sickness.	Gonorrhoea.	Stomatitis.	Ear and Eye diseases,	Threatened Abortion.	Bleeding etc.	Tonsils.	Eclampsia,	P. P. H.	Dyspepsia.	Scanty Urine.	Enlargement of spleen,	Cough.	Piles	Total,	Total of Prematernity cases registered.
		State of the last							100								1			The state of the s									
1	3		1	1	2	3	3	8	3	4		9	•	19	2	37			·			•••					***	949	1,666
19		2	2	2	3	4	4	18		16		3		12	6	15	8			4								475	475
6	7	2	2	9	24	5	9	2	3	4	1	5		31	2	22					3	1	***					1,139	1,286
2	2	2				3	9	24						26	14	73												1,876	1,971
9	4					6	4	2								7							4		***			465	478
1	2					1										12		6					11	10				664	1,121
5	1				12		1			37			4			138	3			11	1		5		4	9	1	960	1,446
2		1	3			3	5	5			1.			2	3	3		1	25									847	1,681
6					2	!				3				2	17	15												665	612
-	16			16		100		1	12		-			4		20	14			6							.,,	413	695
				10	1	100			10							-	1						***		***				
3			1			3	10			. 3	1.	1				13	4			"					***			256	335
3			-			1	2						2			1	5	16			•••		97			-		733	1,549
59	40	7	18	39	49	37	14	72	21	67	1	18	s	96	34	356	34	23	25	21	4	1	L17	10	4	9	1	9,412	13,315

^{13,315,} 11,292, 10,535, 10,915, 9,232, 6,269, 6,062, 4,071, 3,501,

STATE Maternal Morbidity

-				911/10					-	-									
Serial No.	Centres.	Anaemia,	Albuminaria.	Malaria.	V. D. H.	Bronchitis.	Dysentery.	Influenza.	Typhoid. Retained Membrane.	Adherent Placenta.	Eclampsia.	Pneumonia.	Ulcerated Vagina.	Retention of Urine.	Aethma.	Diarrhoea.	Jaundice.	Indigestion.	Gastrius,
1	Triplicane	258	83	25	1	33	27	29			7 4		i	20	1 2	29	2		
2	Washermanpet	117	10	13	18	16	10	11	6	5	3 2	1	3 1	15	3		1.		
3	Purasawalkam	53	23	27	7	41	31	39	2 10	3	6 5	6	12	5 1	1 3	31		23	1
4	George Town	235	29	39	8	10	11	15		2.	(3		4 1	12			
5	Nungambakam	76	15	10	1	26	9	5			1			2	. 1	3		2	1
6	Mirsaibpet	205	2	4	4	19	3	3	5.		2 1	!	2		. 2	4			
7	Muthialpet	23	56	18		6	3	4			1 1	2 1:	3		. 3	2	2.		
8	Royapuram	115	53	9		24	10	10		1.	9				. 2	8		4	2
9	Perambur	11	16	6	1	4	3	5	1 1	.	1	4 :	2 2	2	2 1	2	2	2	3
10	Egmore	20		3		10	8	4					. 5		. 1	2			
11	Royapet	35		18		20	6	3	1	1	1 1	1	. 6		1	3		6.	
15	Choolzi	65	***	44	5	5	11	2					. 1		3	1		1	1
	Total.	1213	287	216	45	224	132	150	3 23	122	22 30	143	1 27	44 2	4 15	97	7 2	38	8

MENT III.

(Puerperal) 1931.

Constipation.	Worms.	Mastitis & Breast Abscess.	Nephritis.	Sapraemia.	A. P. H.	P. P. H.	Mumps.	Skin disease.	Stomatitis.	Sepsis.	Neuritis and Sciatica.	Septicaemia.	Ulcerated Vulva.	Fever and Hyperpyrexia.	Piles.	Rheumatism.	Chicken Pox.	G. Conjunctivitis.	After pains.	Other diseases.	L.P.	Ovarian Tumour.	Puerperal Sepsis.	Elephantitis.	Gen. Anasarca.	Leucorrhoea.	Hysteria.	Debility.	Cough.	Neuritis.	Pleurisy.	Total,
131	4	21			1	3		24	22	3			29	27	1				50	12										1		850
21	2	4			2	6		7	9					18		3		1	16													324
64	12	18		4	3	11		4	15	6		1	1	45	4			7	47													590
111		5				3		8	21	2				6	2	1			17	15												566
1		2				2													57													214
1		9			1	2		7	2				3	24		1				39	11	1	8	3	4	12	2					387
1	3	28		1					59				3						29	12					1		1	60	3	8		336
7	1	6		4	4	2	1	10						2																		285
3		4				3	1	2	1	4			3	4	2			2	3	200								***				113
		6						2	12			8				3			•••	- 6								c++			1	91
8			1					3	9				12	4						1								***				154
12		1						1	2					13					17	29												214
370	22	104	4	-9	11	32	- 01	68	152	15	-	9	51	143	9	8		10	236	114	11	1	-8	5	5	12	3	60	3	3	1	412

Н 35-ь

140

STATEMENT IV.

A

Maternal mortality (Puerperal) among cases treated by Child Welfare Scheme for 1931.

Centres,		V. H. D.	Typhoid.	Eclampsia.	Adherent placenta.	Апаетіа.	Dysentery.	Tuber. Enteritis.	Sepsis.	Total
Triplicane			l	1	1					
Washermanpet		2		ï	1			1		4
urasawalkam					1900					10 2
eorge Town	200	2	2000			***	2000	1 2 3 3		2
Nungambakkam	•••								•••	1000
vungam bakkam	*	***	***					***	***	***
dirsaibpet	***	***	***	***	***		***		***	***
Muthialpet	***	***		1		***	•••	•••		1
Royapuram	***	***						***	•••	
Perambur		***	***			1	***			1
Egmore									***	
Royapet							***	1		
Choolai										
Total		4		2	1	1				8

В

Deaths among cases brought to the notice of the Child Welfare Scheme in 1931 but not under our treatment.

	-	Triplicane.	Washermanpet.	Purasawalkam.	George Town.	Nungambakkam,	Mirsaibpet.	Muthialpet.	Royapuram.	Perambur,	Egmore.	Royapet.	Chulai	Total.
1.	In Hospital	5	7	5	8	6	6	2	6	6	6	3	2	62
2.	Under private Doctors		1	1	3	1		2						9
3.	Under Vydians' treatment	-	1		1									3
4.	Under Barber Women				***									
	Total	7	9	6	12	7	6	4	-6	8	-6	3	2	74

STATEMENT IV-contd.

C

Showing the causes of death among cases brought to the notice of Child Welfare Scheme but not under our treatment in 1931.

Centres.	Eclampsia.	Adherent Placenta.	P. P. H.	V. D. H.	Anaemia.	Tub. Enteritis.	Septicaemia.	Pneumonia.	General Anasarca.	Dysentery.	Tetanus.	Fever.	Causes unknown.	Drugged with native medicine.	Typhoid.	Retained placenta.		Total.
Triplicane	 1			2			4											7
Washermanpet	 1	2		3									1	1	1			9
Purasawalkam	 1	1					1			1		1				1		6
George Town	 1		1	2	2		2	1							3			12
Nungambakam	 1	1		1			1		1			1					1	7
Mirsaibpet	 	1		1		1					1		1			1		6
Muthialpet	 2							1				1						4
Royapuram .	 2			2	1					1								6
Perambur	 3			1				1									1	6
Egmore	 4	1								1				***				. 6
Royapettah	 	-						1		2]		3
Choolai			1		1													2
Total	 16	6	2	12	4	1	8	4	1	5	1	3	2	1	4	2	2	74

A total of 82 deaths occurred among the 13,514 labour cases which came under the observation of the Child Welfare Scheme. Meternal Mortality rate for all deaths among cases brought to the notice of the Scheme is 61 per cent.

Maternal Mortality rates for the C. W. S. for

1922-	.5	per cent.	1927	.4	per cent.
1923			1928	.52	per cent.
1924			1929		
1925			1930		
1926-			1931		

STATEMENT V.

Table showing the total attendance of Children and Mothers at the Child Welfare Centres during 1931.

	Remarks.	650-1
À	Average Dail Attendance.	855.9 1000-8 100
the	Pregnant wor treated at Centre.	959 418 465 664 664 906 847 847 665 733 733 734 665 733 733 734 734 734 734 734 734
.1	Total attendar	26,123 9,111 21,109 36,576 18,842 25,638 13,550 20,514 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 14,560 16,832 17,241 18,812 18,816 18,
	Other causes.	23.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
	-simisnA	1,484 1118 1118 382 639 639 191 289 289 289 166 544 553 1,783 1,783
	Syphilis.	1139 1139 1139 1139 1244 1254 1254 1254 1254 1254 1254 1254
sease.	Malaria.	203 404 4112 8236 622 769 769 769 769 769 769 769 769
Nature of disease.	Ear and Eye	2544 2370 2370 2370 2370 2370 2370 2370 2583 2583 2583 2583 2583 2583 2583 2583
Natu	Influenza.	1,087 2533 2902 2834 2965 3655 3655 3653 3653 3653 3653 3653 1,258 967 840 840 840 840 840 840 840 840 840 840
	Skin affection.	129 640 685 1,357 889 889 526 775 709 761 849 762 592 874 878 878 878 878 878 878 878 878 878
	Alimentary.	2,110 1,653 1,649 1,746 1,566 1,566 1,566 1,568 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,341 1,246 1,341
	Respiratory.	2,269 1,623 1,685 1,496 898 434 434 1,251 1,251 1,535 1,535 1,538 6,469 6,469 6,469 6,469 1,912 1,912 1,912 1,912
	WeW IstoT SonebnettA	7,385 7,262 7,262 7,262 6,706 9,705 7,503 7,834 7,834 5,803 6,506 6,506 6,506 1,351 11,125 11,126 11,126 11,126 11,126 11,126 11,536 11
	Women.	3,712 3,345 7,385 3,317 8,900 1 17,959
e.	5 to 12 years.	071,468 7,468 7,468 7,792 7,792 667 667 667 7,703
Age.	L to 5 years.	1,500 1,539 1,138 1,138 1,113
2	Under I year.	2,922 1,622 1,622 1,622 1,622 1,631 1,532 1,631 1,534
	From 1st January to 31st December 1931.	Triplicane Washermanpet Purasawalkam George Town Nungambakkam Mirsaibpet Muthialpet Royapuram Perambur Egmore Royapet Choolai Total for 1931 ", 1928 ", 1928 ", 1927 ", 1927 ", 1927 ", 1927 ", 1927 ", 1927 ", 1927 ", 1927

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STATEMENT VI.

Showing the number of abortion cases which came under the observation of the C. W. Scheme staff during the year 1931.

		Ho	w Conducted		
Period.	Centres	By Nurses of C.W.S.	Taken over after B.W. conducted labour.	Taken to Hospital.	Total
From 1st January to 3 ist December 1931.	Triplicane Washermanpet Purasawalkam George Town Nungambakam Mirsaibpet Muthialpet Royapuram Perambur Egmore Royapet Choolai	5 8 11 19 3 23 16 6 6 6 2	4 3 1 2 2 3 2 1 1	8 11 16 21 14 14 20 19 12 2 3 6	17 22 28 42 19 20 45 35 19 9 5
	Total	 109	19	146	274

STATEMENT VII.

Number of visits paid by the staff of the C. W. Scheme during the year 1931.

		1	Visits paid by	3 22 1	
Centres.		Midwives.	Health Visitors.	Lady Doctors.	Total.
Triplicane		17,819	18,031	1,457	37,307
Washermanpet		13,668	11,504	1,301	26,473
Purasawalkam		12,191	13,510	1,134	26,835
George Town		31,597	12,984	1,597	46,178
Nungambakam		10,217	10,515	1,457	22,189
Mirsaibpet		13,051	12,319	1,075	26,444
Muthialpet		14,938	16,230	1,624	32,792
Royapuram		12,471	15,281	1,313	29,065
Perambur		20,420	9,118	1,317	30,855
Egmore		9,704	7,567	1,099	18,370
Royapet	!	10,496	8,913	1,203	20,612
Choolai		11,972	12,189	1,189	25,350
Total		1,78,544	1,48,160	15,766	3,42,470

STATEMENT VIII.

Ages at death of infants born during 1930 and kept under observation during the 1st year of life.

		Total No.	19.3			Died within	vithin		Total	Left City or	No. of living
From 1st January to 31st December 1930.	iber 1930.	of cases visited.		Still born.	10 Days.	I to 3 Months.	3 to 6 Months.	6 to 12 Months.	excluding Still births		traccable when one year old.
Triplicane Washermanpet Purasawalkam George Town Nungambakam Mirsaibpet Muthialpet Perambur Perambur Choolai		HILLIIIIIIII	1,683 1,216 808 1,657 1,042 1,194 1,194 1,194 1,194	044255555555555555555555555555555555555	8082227333331	68944855522918 689448555256	25 25 4 7 2 2 2 2 7 1 1 1 2 2 2 2 2 2 7 1 1 1 2 2 2 2	25 5 4 4 1 2 2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	186 166 123 123 123 161 161 105 105	319 106 117 205 116 104 122 122 123 124	1,138 895 895 1,184 1,184 471 1,037 148 880 1337 493 408 517
	Total	12,623	623	448	463	321	337	582	1,703	1,448	9,054
Infantile	Infantile Mortality rate for do,	te for		For i 1923 1928 1928 1928 1928 1928 1919	nfants in	139-5 per n 157-2 " 171-6 " 171-6 " 171-6 " 159-1 " 169-5 " 201-9 " 221-7 " 231-9 "	C. W. Scheme.		City rate. 243.9 243.9 256.8 286.8 279.3 278.8 264.1 254.0 308.0 281.9 279.0 329.0		

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our bour	No. of livin who surv lst year o	1,138	895	546	1,181	471	1,037	748	880	131	493	408	517	9,054
ty and not	Left the Ci traceable.	319	901	111	202	16	51	104	86	99	162	120	94	1,448
rsq.	Total deat	186	166	120	213	123	82	161	172	136	105	98	153	1,703
	Measles,		:		4	:	:	:	:	:		-:		4
	Rat bite.		1		:		•	:	64	:	:	:		04
	By vaccina	-:	-	-:	3.	+	-	-:	- :	-			-	1
sisali	Infant Para	-	:			-	•	:	:	:		:	:	1:
	Dropsy.	:	:	:			1	1	:	1		:	1	
'umour	Causes unb	7	21	10	20	-	6	10	13	6	17	8	00	1118
	Gastrifis.	1		:			-		-					-
***	Constipatio Rickets.		-	52	1	-:	. 64	-		04	-	- :		8 = 1
u	Dysentery.	10	9	-	-	-:-	-	5:	6	120	4	- 9	3	
111	A STATE OF THE STA		100			-		-	74401	100000	100		-	65
	Diarrhoea.	15	12	20	!	1	.0	-	6	00	20	123	26	136
	Drugged w	:	:	:	7	:	-	7/1:	:	3	*	:		15
	Fever.	11	17	10	15	30	18	53	273	6	15	16	47	298
X	Chicken-po	-:		:	13	-:	-:	- :	-:	4	-	- :	- :	9
• • • • • • • • • • • • • • • • • • • •	Syphilis.		÷	÷			-:		-:-	01	-61		- :	1 4
-nguos	Whooping Skin diseas	-10	.9	-	=======================================	-	=	-	20	-00	5	0.4	64	421
State	Convulsion	14	11	2	21 1	-	10	10	04	00	60	36	15	30 4
	Malaria.		-:	:	:	:	:	:	0.3	04	:	:	-:	2
·u	Malnutritio	-		00	i	•	03	-	:	:	04	i	:	13
	Bronchitis.	16	00	9	14	20	00	01	23	20	-	6	7	129
(50) Aut 10	Small-pox.	01	0,5	123	9	10	:	00	:	0.03	-	-00	:	351
-	Enterities.	11	18	00	13	26	9	28	25	13	:	4	04	155
	Abscess.	-60	00	6.0	:	:	:	:	00	-	3	:		
The Later	Influenza.	- 01	77.5	00	-	-	-		60	-		-	:	45 11 18
tender 1	Pneumonia	1.5	4	64	4	-	4	00	5	0.3	-	-		45
-sysb 01 n	Died within	38	20	33	73	29	27	40	43	35	26	*	41	441
	Still born.	40	49	22	92	13	99	53	48	22	27	18	33	418
soseo jo	Total No.	1,683	1,216	808	1,657	623	1,226	1,042	1,198	954	787	632	797	12,623
**	THOUSE .	;	:	:	;	:	:	:	:	:	:	:	:	:
	Centres	ne	Washermanpet	walkam	Town	Nungambakkam	pet	lpet	ıram	nc	9	ttah	i de la constante de la consta	Total
150 13	105,79,1	Triplicane	Washer	Purasawalkam	George Town	Nungar	Mirsaibpet	Muthialpel	Royapuram	Perambur	Egmore	Royapettah	Choolai	3

STATEMENT X.
Showing the number of cases taken on for Milk Supply during the year 1931.

Centres.	No. taken on for Milk Supply.	Yearly attendance.	Average daily attendance	
Triplicane	 62	11,527	31.5	
Washermanpet	 48	9,787	27.0	
Purasawalkam	 62	13,575	37.2	
George Town	 89	17,922	49.1	
Nungambakkam	 69	14,168	38.8	
Mirsaibpet	 86	15,517	43.2	
Muthialpet	 77	18,917	51.8	
Royapuram	 51	10,712	29.5	
Egmore	 56	13,719	37.3	
Perambur	 97	20,204	55.3	
Royapet	 61	14,473	39-6	
Choolai	 47	11,355	31-1	
Total	 805	1,71,876	471-4	

STATEMENT XI.

Showing the number of children who were given free baths during the year 1931.

Centres.		New admissions.	No. of baths given to babies.	Average daily attendance	
Triplicane	W 12		415	11,962	32-7
Washermanpet			135	13,390	36.6
Purasawalkam			489	12,160	33.3
George Town			259	11,073	30.3
Nungambakkam			849	16,449	45.1
Mirsaibpet			495	8,195	22.4
Muthialpet			180	15,977	43.8
Royapuram			1,095	10,766	29.5
Perambur			306	8,323	22.8
Egmore			67	7,671	21.01
Royapet			342	13,147	36-01
Choolai			319	8,281	22.7
	Total		4,951	1,37,394	376-22

STATEMENT XII.

Showing the details of Health Propaganda Work done by the Staff in 1931.

-	Remarks.	rage attendance per lecture = 52.6.	>vA
	Total.	50 50 50 50 50 50 50 50 50 50 50 50 50 5	543
	Dental Care.	100	05
	Preventive diseases.		
1000	Ante Natal care.	100	60
	Infant feeding.	179 1 1 1 1 1 1	00
200	Filaria.	!!!!	-
	knowing gnome.		-
10000	Bending the twig	111/11-1111	
100	General Sanitation.	in : : : : : 4	9
	or many.	11111171111	91
	Your mouth, one Scar		
	Breast ted Baby.		0.3
1	Insects and diseases	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10
1000	First aid.	60 : : : : : : : : : : : : : : : : : : :	12
1	Flics.	~ - 01 € H . 14 € € €	31
1	Worms.	4:::::4::	6
1000	Ventilating houses.	MMH4 HW : MM :	17
1	Other diseases,		23
is is	Round worms.	1 1 2 1 1 1	6.0
Subjects.	Plague.	H 50 1 - 1 - 1 - 4 50 -	19
on.	Water-supply.	01 2 H H 4 : 101 00 00 01 10	62315212619
l on	Mosquitoes.	हमाराम्य , राम्य व्य	12
	Leprosy.	ं छ : छ न वा वावावा	15
1	Ankylostomiasis.	94 :4 00-40000HH	63
1000	Dysentery.	11:1-4:-::	
1	Choleta	F 22 7 F 6 4 9 23 73 4 4 23	09
1	Domestic Hygiene.	MH00 4 44044	355
1 3	Personal Hygiene.	400 :400 -4-540	373560
	Maternity & Child- Welfare,	10 24 70 91 70 F 10 4 10 10 E	35
1	Tuberculosis,	0000-4-0000000	27
1000	Typhoid.	H : : : 4 : : -	9
	Malaria.	01 01 00 00 01 40 00 01 20 10 10	40
1	Welifed Baby.	7,1, ,.,.	01
12	Chicken-pox.		
17.3	Measles.	421-320-00-04-00	-
	Small-pox.		5.4
-col se	Total attendance at thi	2,666 3,513 3,213 1,584 1,584 2,358 2,358 2,110	28,507
lo bis	No. of lectures with a	118 118 118 118 118 118	195
lo bi	No. of lectures with air Cinema shows	LH 14 14 14 14 14 14 14 14 14 14 14 14 14	=
-ilab i	No. of out-door lectures vered.	33 2 2 2 2 2 2 3 3 2 2 4 3 3 3 3 3 3 3 3	336
COX.	Centres.	Triplicane Washermanpet Purasawalkam George Town Nungambakam Mirsaibpet Muthialpet Royapuram Perambur Egmore Royapettah	Total
H-37-d			

STATEMENT XIII.

Showing the Births, Infantile Mortality and Infantile Mortality rate during 1931 and Infantile Mortality rate from 1921 to 1930.

Remarks.		-																													
		-																													
	1951	308.9	255.5	286-1	331.2	456.9	2010	476.9	337.2	336-0	522.6	319.6	376-2	339.8	293.9	220.3	6-68-	203-8	269-5	229-3	233.6	1.903	0.076	9.906	930.8	966.4	299.3	251.8	254.4	281.9	38.5
	1922	286.2	283.6	333.1	304.0	288.7	397.4	25.55	301-7	373.6	133-7	309-1	128.1	\$000	360.9	261.7	329.9	2.908	332.1	258-6	310.7	202.6	255.1	218-4	275.5	302.4	3.2.6	256-0	218-9	308-0	42.7
	1923	319-9	277-9	273.2	238.3	947.0	307.4	369.6	289.7	271.0	329.7	325.8	295-0	195.7	309.0	203-2	241.0	205.0	236.2	232.0	2000	\$-012 \$-016	214.5	6-1-6	216.5	2:9.7	260-5	287.	252.2	254-0	37.8
or	1921	8-167	297.6	265.8	2.00.2	8:10:0	3.10.4	437.0	312.2	282.9	411.3	218-5	355.9	452.8	318.4	232.5	253.8	262.5	269.5	197-3	236.0	0.46.9	236.4	206.6	261.6	7.662	238.5	239.0	261.5	264.1	41.7
lity rate f	1925	293-1	277.7	288.1	2.002	361-6	318-5	438.0	303-7	381.8	359.8	803.5	301.8	284.1	377.9	195.8	344.9	251-0	258.6	231.8	0.4.0	258.9	236-1	162.5	247.9	272.3	282.6	267-1	313-0	278.8	47.3
Infantile Mortality rate for	1926	330-3	271.6	2020.5	370.0	295.3	295.3	258.6	281.8	833.3	304-3	323.4	309.4	388.2	376.7	271.8	584.9	248.2	267.6	238.9	914.6	306.8	2:1.7	204.2	255.7	288.3	254.3	241.3	254.5	279-3	45.0
	1927	253.6	275.	0.852	839.0	262-4	239.1	8.682	266-1	290.1	369.1	255.8	308-7	319.8	255.7	7.197	279.1	212.7	232.9	1.261	911.0	233.3	248.6	177.6	224.5	227.1	190-3	203-0	258-3	237-6	42.3
	1928	352.2	8.828	244.4	502.1	238.0	265.3	328.8	323.8	341.5	9.10*	367.8	337.8	165-9	301.2	296-9	281.2	0.197	0.012	929.1	239-1	271.7	292.0	230-9	279-3	330-8	220-7	251.3	218.0	8.982	2.09
	1929	6.965	2524	2000	373.0	231-2	259.0	210-3	250.0	235.5	315.4	293.6	289.8	474.1	292.0	283.7	288.8	1.912	T.007	923.2	201-7	258.4	259-2	166-2	225.4	303-9	535.4	195-9	324.9	356-6	42.4
	1930	6.142	227.1	201.2	317.1	253.5	213.7	241-4	250.6	248.3	288.0	263.7	302.0	357.8	284.4	233.2	274.0	243.3	234.0	1980	204.9	228.5	259-3	223.6	249-3	269.2	560.9	208.2	237-1	243-9	43.2
Intantile Mortality rate.		322.6	232.3	20.08	366.0	239.8	229-1	357.5	21.1.5	215.3	286.5	245.1	279-4	287.0	259-3	0.917	244.4	1.007	170.0	917.0	227.9	257-2	207-9	207-5	241.1	278.5	272.3	233.1	259-1	218-3	25.5
Infantile Mortality.		281	301	267	16	106	104	19	168	187	50	214	195	99	197	900	900	107	96.5	183	227	293	325	167	182	225	324	293	185	1689	te
Still-births	1931	7	120	27	13	31	55	6	38	41	04 9	49	41	200	30	IC	200	90	120	44	38	38	99	20	36	41	83	21	92	1318	eath ra
Births registered excluding Still-births.		871	1296	883	265	442	454	179	730	742	180	873	869	CIT	410	0001	050	1000	1480	840	966	1139	1991	805	755	808	1190	1257	714	25738	General Death rate
,snoi	Divis	-	A CO	4	5	9	-	00	0 :	10	17	12	13		CI	17	101	10	06	21	22	23	24	22	97	17	900	62	000	Total	

Table showing details of all Births in the Municipal D ivisions in which

		s.	om ot to 3i.	the on			Per	rcentag
Centre.		Municipal Divisions.	Total No. of Births from 1-1-1931 to 31-12-1931.	No.of cases conducted by the Corporation Mid-wives.	1931	1930	1929	1928
Royapuram	{	1 2	871 1,296	380 501	43·6 38·6	58·8 50·7	41·50 38·08	39.5
Washermanpet	{	3 4	1,102 889	591 336	53·6 37·7	47·04 36·09	48·50 37·90	41·9 33·3
Muthialpet		5 6 7	265 442 454	148 123 264	55·8 27·8 58·1	54·9 33·5 74·4	32·37 26·80 57·60	32·5 22·5 50·6
George Town	{	9 8 10 11 12	788 179 742 185 873	305 54 428 10 457	38·7 30·1 57·6 5·4 52·3	49.08 29.3 50.8 8.3 44.5	32:36 22:06 50:41 3:81 40:04	30·8 16·2 31·4 6·7 38·1
Perambur	-	13 14 15 16	698 115 644 1,558	318 37 184 751	45·5 32·2 28·5 48·2	45·2 31·1 29·1 45·5	42:21 41:02 22:51 47:10	35·1 31·5 20·8 28·0
Choolai	{	17 19	1,240 780	564 215	45·4 27·6	12·5 5·9	40·76 37·56	39.3
Purasawalkam	{	18 21 20	1,060 840 1,489	521 284 287	49·1 33·8 19·2	39·5 28·4 16·5	21·46 29·67 21·59	19·6 22·3 8·8
Egmore Nungambakam	{	23 22	1,139 996	337 412	29·5 41·4	32.1	37·85 64·20	16.6
Triplicane	{	24 25 27	1,564 805 808	847 305 391	54·2 37·9 48·4	65·5 46·5 51·5	55·48 37·24 42·32	47·9 35·3 41·7
Mirsaibpet	{	26 28 30	755 1,190 714	184 532 207	24·3 44·7 28·9	34·4 58·3 42·9	26·23 38·13 27·09	22·6 41·6 27·1
Royapet		29	1,257	476	37.8	50.3	10.87	28.5
Total			25,738	10,449	40.6	41.39	37-74	30.5

Note.-1. The case conducted in hospitals are as follows.-

1.	Government Maternity Hospital	2,872
2.	Do. Indian Medicine School	188
3.	Do. Victoria Gosha and Caste Hospital	1,657
4.	Rajah Sir Ramasawmy's Lying in Hospital	1,812
5.	Kalyani Hospital	515
6.	Christiana Rainy Hospital	610
7.	Lady Ampthil Nurse's Institute	32
8.	Dr. Rungachari's Nursing Home	20
9.	General Hospital	1
		-
	Total	7,707

MENT XIV.

the Scheme was working for one year ending with 31st December 1981.

1927	1926	1925	1924	1923	1922	1921	1920	Rema	rks.
41.9	39.3	20.1	13.0	7.1			8-9		-
33.8	33.1	31-1	10.9	19.2	12.4	15.7	20.9		
43.4	39.6	39.4	38.3	26.5	29.7	35.8	20.5		
30-1	28.5	31.7	38.4	24.2	21.2	22.1	***		
23.9	15·6 15·0	12·5 16·4	1.6	5.5 12.6	1.9	***	***	1,	
46.3	56-7	41.3	27.6	18.0	7·4 6·4			1	
30.75	23.8	23.5	18.8	15.0	7.9	***			
18.8	11.0	3-1	13.4	19.6	1.3	***			
36.3	31.8	31.5	28.3	24.0	11.4		***		
3.8	1.1	3.9	2.5	7.6	5.0			1.	
37.75	29.8	31.1	24.4	27-4	15.8	***	***		
31.1	28.0	23.7	19.3	20.0	10.0				
38-8	67.0	21.3	6.2	2.8		***	***		
9.4	7.4	8.5	6.4	9.3	6:5		***		
25.2	22.7	21.5	20.8	25.3	22.4	18.6	15.9	1	
37.2	31.0	30.7	22.1	26.4	27.9	26.7	18.4		
35.6	35·8 12·9	26·7 12·95	28·7 12·0	28-3	25.1	24.7	25.2		
18.3	16.6	14.0	25.6	12.9	12.6	8.6	10.3		
5.1	5.2	5.6	3.7	4.4	4.1	1.8	13.3		
21.0	17.4	16.5	42.0	11.3	10.1	8.2	6.6		
26-0	28.5	28-1	14.5	3.8	3.8		1 17729		
49.2	41.1	38.9	29.4	38-2	40-4	41.5	42.0		
32.2	32.5	25.8	11.8	36.5	33.1	30-7	28.5		
39.85	38.1	35.3	45.9	35.6	31.2	28-1	37-9		
22.15	75.9	19.3	25.1	16.8	19.0	20-7	16-3		
40.8	36.0	34.2	4.9	19.4	19.1	16.2	14.9		
26.2	22.0	14.2	21.0	4.7	4.2				
21.7	21.8	20.35	14.9	3.0	9.9	9.4	11.0		
30-0	27.3	25.1	21.0	19-0	19.5	21.7	21.3		
1	Percentag				1	21.1	21.3		
1931	1930	1929	1928	1927	1926	1925	1924	1923	1918
29-94	30-09	34.01	32.5	32.6	29.8	30.0	28.5	28-8	16-9
Note 3.—	Percentag	e of cases	in care o	of C.W.S.	to total t	oirths.			
1931		1929	1928	1927	1926	1925	1924	1923	1922
40.6	41.39	37-74	30.5	30.0	27.3	25-1	21.0	19-0	19-
		2222							
	1921	1920	1919	1918					

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