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CORPORATION OF MADRAS



HEALTH DEPARTMENT

ANNUAL REPORT

FOR

1943

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Corporation of Madras

HEALTH DEPARTMENT

CONTENTS

INTRODUCTION		P	ages i to iv
ANNUAL REPORT FOR 194	3	P	ages 1 to 18
			Page
VITAL STATISTICS			1
Small-pox—Vaccination			4
Malaria-Mosquito control			5
MEDICAL RELIEF			7
MEDICAL INSPECTION OF CORPORATION SCHOOLS, 1943-44.			9
WATER ANALYSIS			11
FOOD CONTROL			11
FOOD ANALYSIS			12
SANITATION		1	15
CONSERVANCY			16
REPORT OF MATERNITY AND CHILD WELFARE SCHEME		Pages	s 19 and 20-
APPENDIX OF STATEMEN	TS	Pag	es 21 to 37
			Page
VITAL STATISTICS			21
VACCINATION	·		25
MEDICAL RELIEF			26
MEDICAL INSPECTION			28
WATER ANALYSIS			32
SANITATION			34
FOOD ANALYSIS		1	36

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1943

ANNUAL HEALTH REPORT

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FOR 1943

INTRODUCTION

Commissioner,

Sir,

In many ways 1943 was an exceptional year. Not only did people who had migrated from the city in the previous year owing to war scare return to the city but a large number of people from all parts of the province flocked to the city as a result of the tremendous increase in industrial activities due to the war. Although the estimated population of the city based upon the census figures of 1941 was 8,07,873, the actual population in the city during 1943 must have been very much higher. This was clearly borne out by the preliminary census operation conducted by the A. R. P. in connection with the introduction of food rationing in the city during June 1943, which showed that the population of the city was 9,87,845.

There were 30,366 deaths in the city with a mortality rate of 37.59 per mille. Of these, 12,984 deaths occurred among infants and children under 5 years of age and 6,106 among persons of 60 years and above. The tremendous influx of people into the city, inadequate housing and the unfavourable food conditions prevailing during the year owing to the high prices of certain commodities essential for the maintenance of health were responsible for an increase in the death-rate from 22.67 per mille to 37.59 per mille. The mortality rates would have been much lower if calculated on the actual population instead of on the assumed population of 8,07,873.

Cholera raged in the province in an epidemic form throughout the year affecting practically every district. The sudden influx of people brought the disease into the city also. There were two epidemics of cholera, one in the first quarter and the other in the last quarter of the year. Vigorous measures were adopted at the very outset to stamp out the disease. 6,00,000 people were inoculated against cholera, which is a record figure of inoculations for Madras. Compared with the mortality in other parts of the province, the total number of deaths under cholera viz. 400, must be regarded as rather low. 341 cases of cholera were brought to the Infectious Diseases Hospital, Tendiarpet, for treatment from Chingleput District, of whom 137 died.

While the situation was somewhat critical the city had the misfortune of undergoing another ordeal due to the unprecedented floods that started on 10th October, 1943. For nearly a week several areas remained partially submerged or waterlogged. Many feared serious outbreaks of malaria, enteric and cholera. The health staff worked in close co-operation with the other departments day and night in removing accumulated filth and debris, clearing slush and deposits of mud, rescuing victims, inoculating people against cholera and typhoid, ensuring the safety of water supply with an adequate dose of chlorine, removing febrile cases to the hospitals, inspecting Rest Centres, disinfecting latrines and drains, distributing food supplies to the conservancy coolies, etc. Despite the damage done to one of the important mains supplying water to the city, it is gratifying to report that the situation was kept under control from the very commencement of this catastrophe and the city escaped a major epidemic.

Despite the serious handicaps the department had to face during the year under report, much useful work was done to improve public health. In the field of medical relief 27 dispensaries and 3 clinics and one hospital continued to function efficiently. 446 new leprosy cases were treated in the Leprosy Clinics of which 279 cases showed varying degrees of improvement. 8,152 injections were administered. At the Venereal Clinic 822 persons were treated for gonorrhoea and 388 for syphilis. 1,569 injections were given to patients. In the treatment of gonorrhoea the Sulphonamide groups of drugs gave satisfactory results. 2,707 infectious cases were treated at the Infectious Diseases Hospital with a mortality rate of about 24 per cent.

155 ill-nourished Corporation school children regained normal health.

108 had their carious teeth extracted. 521 cases of stomatitis were cured. 50 children had their tonsils removed. 6,975 cases of scabies and 1,204 other skin affections were cured.

The drive against the sale of adulterated ghee and other articles of food was kept up as in the previous year. 2,060 samples were dealt with during the year as against 1,755 during the previous year. There was a slight increase in the percentage of adulterated samples, chiefly owing to the large scale adulteration of milk and butter. There was a shortage of these articles and the temptation to adulterate became almost irresistable owing to the unusually high prices prevailing.

8,759 ft. of sewers were laid. 612 flushout latrines were installed in dwelling houses. There are yet thousands of dry-latrines in sewered areas which are a source of constant danger to the health of the city. Now that the war situation has improved, every effort will be made to have them converted into flushout latrines.

Further, two important things need urgent attention. The first is the extension of the underground drainage to all the slums and hutting grounds in the city and the second is the conversion of all dry latrines in the city into flushout latrines. Every house, whatever may be the rental valuation, should be provided with a flushout latrine. It is recommended that where the owners are too poor to bear the cost of the work suitable concessions should be shown as it will ultimately benefit the Corporation.

C. S. GOVINDA PILLAI,

M. B. CH. B., L. R. C. P. & S., D.P.H. (Edin.),

Health Officer.

The year 1943 was an exceptionally bad one for public health and I am not prepared to say that the unprecedented floods of October 1943 were entirely responsible for this bad record. The death-rate has increased phenomenally from 22.67 in 1942 to 37.59 per mille in 1943; infant mortality increased from 196.76 per mille in 1942 to 247.30 in 1943. There were 7,857 deaths from respiratory diseases alone, compared with 4,093 deaths in the previous year. Cholera and dysentery also took more than their usual toll.

The city is undoubtedly over populated i.e., there is an inadequate number of houses in the city to accommodate the large influx of labour

from surrounding districts and overcrowding in existing houses has reached a point at which public health has been seriously affected. Overcrowding has unfortunately occurred in the poorest class of houses, which are ill-ventilated and not provided with flushout latrines. The resistance to diseases of the poorer classes has gone down considerably owing to ill-nourishment caused by the high cost and non-availability of essential food-stuffs. Conservancy has also been bad owing to transport difficulties caused by shortage of bulls, carts and lorries and by the strict rationing of petrol-The number of private flushouts and public conveniences is also wholly inadequate. All these factors have contributed largely to the marked deterioration in public health in 1943 and the October floods merely aggravated a situation that was already bad.

The Health Department has admittedly worked under very trying circumstances in a difficult year. It is hoped however that the marked deterioration in public health in 1943 will spur it to greater efforts and greater efficiency in future years.

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J. P. L. SHENOY, 26-10-44. Commissioner.

SUMMARY OF VITAL STATISTICS FOR 1943

29.396 sq. miles. Area 7,77,481

Population (according to 1941 census) ...

Population estimated for 1943 (midyear) 8,07,873 Births 29,498

Birth-rate 36.51 per 1,000 estimated

population.

Still-births Deaths 30,366

Death-rate 37.59 per 1,000 estimated

population.

Infantile deaths

Infantile mortality rate 247.30 per 1,000 live-births.

Maternal deaths 275

Maternal mortality rate 9.32 per 1,000 live-births.

PUBLIC HEALTH OF MADRAS CITY DURING 1943

VITAL STATISTICS:—According to the census of 1941, the population of the city of Madras was 7,77,481. People who had migrated to mofussil parts on account of war scare during 1942 returned to the city. The estimated population for the mid-year 1943 was 8,07,873. The actual population during the year greatly exceeded the estimated population.

Births and birth-rate: -29,498 births (15,188 males and 14,310 females) were registered during 1943 against 20,644 in the preceding year. The birthrate was 36.51 per mille of the estimated population, the birth-rates in 1942 and during the quinquennium (1938-42) being 25.97 and 38.75 respectively.

The proportion of male births to female births was 106:100.

Still-births:—1,071 still-births were recorded during the year against 840 in 1942. This represents 36.31 per 1000 live-births as compared with 40.69 in the preceding year.

Deaths and death-rate: -30,366 deaths (16,020 males and 14,346 females) were recorded from all causes during 1943 as against 18,019 in the preceding year. Leaving out the figures of 1942 for the purpose of comparison, the total mortality during the year under report showed an increase of 2,656 deaths over that of 1941. This is decidedly due to the increase in the city population far above the estimated population on account of the arrival of evacuees from Burma and Malaya and of persons who came to the city on account of increased activity in the city due to the war. The unprecedented floods in October, in no small measure, contributed to the increase in deaths from fevers, respiratory diseases, intestinal diseases and cholera. A comparative study of deaths in the different quarters of 1941 and 1943 would show a large increase especially in the last quarter of the year under report owing to unprecedented floods which caused heavy damage and havoc to the city. The city had recorded excess of deaths over births frequently during the years prior to 1929 but from 1929 to 1942 excess of births over deaths was recorded year after year.

The annual mortality rate was 37.59 per mille of the estimated population compared with 22.67 in 1942, the average rate for the previous five years (1938-42) being 33.20.

The proportion of male deaths to female deaths was 112: 100 against 110:100 in 1942 and 105:100 average for the past five years (1938-42).

Deaths in communities :- The principal communities recorded the following death-rates in 1943.

Community.	No. of deaths in 1943.	Rate for 1000 census population.
European	 29	10.34
Anglo-Indian	 292	30.39
Indian Christian	 1,365	29.83
Hindu	 25,103	40.42
Muhammadan	 3,573	37:33
Other communities	 4	1.56
All communities	 30,366	37.59

Age distribution of deaths:—The statement below gives the number of deaths in the various age-periods and its percentage to the total mortality.

Age-periods.	rip a	No. of deaths.	Percentage to total deaths.
Under 1 year		7,295	24.02
1 and below 5 years		5,689	18.73
5 ,, 10 ,,		1,181	3.89
10 , 15 ,		532	1.75
15 , 20 ,		684	2.25
20 , 30 ,		2,286	7.53
30 ,, 40 ,,		2,243	7.39
40 , 50 ,		2,156	7.10
50 , 60 ,		2,194	7.23
60 years and above		6,106	20.11
All ages		30,366	100.00
			The state of the s

Infantile mortality:—The deaths among infants under one year of age numbered 7,295 (3,896 males and 3,399 females) giving an infantile mortality rate of 247.30 per 1000 live-births against 196.76 in the preceding year, the rate for the quinquennium (1938-42) being 215.02. Infantile deaths formed 24.02% of the total mortality.

Infantile mortality rate was higher corresponding to the increase in the general mortality rate.

Infantile mortality rates in communities:-

Community.	N	No. of infantile deaths.	Rate per 1000 births registered in each community.
European	1	1	28.57
Anglo-Indian		69	146.49
Indian Christian		293	178.66
Hindu '		6,053	249.03
Muhammadan		879	289.53
All communities		7,295	247:30

Principal causes of deaths:—A statement of deaths and death-rates from various causes in 1943 and 1942 with the average for the quinquennium (1938-42) is set forth below:—

	SUL ALTER	1943	19	42 A	verage,	1938-42
Causes of deaths.	No. of deaths	Rate for 1000 estimated population.	No of deaths	Rate for 1000 estimated population.	No. of deaths	Rate for 1000 estimated population.
Plague—Imported	1	0.001		66		0 000
Chalana (Indigenous)	400}		90			
Deaths from cases admitted from Chingleput	}	0.66		- 0.12	135	0.035
District	137		7			
Diarrhoea & dysentery	3,521	4.36	2,251	2.83	3,075	3.98
Small-pox Indigenous and Imported.	137		17			
Deaths from	}	0.02		- 0.02	177	0.23
cases admitted from Chingle- put District.	. 3		· 1			
Measles	67	0.002	282		- 2	0.003
Malaria Enteric) Indigenous and ?	-	0.08		0.35	87	0.05
fever Imported. Deaths among	90	0.14	128	0.20	159	0.19
cases admitted from moffusil into city hospitals	- 26	ob SI To	32	to Edmin		
Other fevers	. 2,345	2.90	1,341	1.69	1,970	2.56
Tuberculosis	. 398	0.49	301	. 0.38	928	1.21
General Respiratory diseases	. 7,857	9.73	4,093	5.15	5,977	7.76
Deaths from child-birth	. 275	0.34	154	0.19	246	0.32
All other causes including	. 15,229	18.85	9,322	11.73	12,705	16:49
Total deaths	. 30,366	37.59	18,019	22.67	25,589	33.20

Plague:—One death from plague was recorded. The patient arrived from Coimbatore with infection and was admitted into the Government General Hospital where he died.

Cholera:—The epidemic of cholera which commenced in the last quarter of 1942 continued during the first quarter of 1943. 764 attacks with 320 deaths occurred in that quarter. The disease continued to be prevalent in the Chingleput District wherefrom 184 cases were admitted into the I. D. Hospital, Tondiarpet, for treatment. Vigorous measures were adopted and the disease was brought under control by February, 1943.

The disease again appeared in a sporadic form in the 3rd quarter of the year and continued till the end of the year. It was feared that the floods of October would bring in a severe epidemic. But timely measures were adopted to keep the disease under control. All the cases were removed to the hospital and the immediate contacts of cases were kept under strict observation. In the flooded areas people who had been rendered homeless were

housed in suitable schools and other places and were fed. All the wells in the city were chlorinated as a precautionary measure.

An intensive campaign of inoculation was carried on in the city and all the available personnel of the Health Department were utilised in bringing the epidemic under check. 6,05,975 inoculations were performed during the year. Additional staff was also entertained to cope with the situation.

There were altogether 1,026 attacks and 400 deaths from cholera during the year with a death-rate of 0.49 per mille as against 0.11 per mille in 1942 and 0.035 during the quinquennium. 341 cases of cholera were admitted from the Chingleput District into the Infectious Diseases Hospital for treatment and, of these, 137 died.

The number of attacks and deaths in different quarters of the year is as follows:—

3,025 350,5	st Quarter		Indigen		Cases admitted from Chingleput District for treatment.					
			Attacks.	Deaths.	Attacks.	Deaths.				
1st Quarter			764	320	184	70				
2nd Quarter 3rd Quarter			39	ii	26	15				
4th Quarter			222	69	131	52				
600-0 2 -			1,026	400	341	137				

Diarrhoea and dysentery:—Diarrhoea and dysentery accounted for 3,521 deaths compared with 2,251 deaths in the preceding year. The death-rate was 4.36 per mille of the estimated population against 2.83 in 1942 and 3.98 the quinquennial (1938-42) average.

Small-pox:—65 attacks and 13 deaths occurred within the city. 12 cases were admitted for treatment in the Infectious Diseases Hospital, Tondiarpet, from the adjoining district of Chingleput. Among these, 3 cases proved fatal. Calculated on the estimated population the death-rate was 0.016 per mille (excluding cases admitted for treatment from Chingleput) compared with 0.02 per mille in the preceding year, the average rate for the quinquennium (1938-42) being 0.23.

Vaccination:—During the year 1943, 1,26,983 vaccinations were performed against 89,190 in 1942. The fall in the total vaccinations in 1942 is due to the large scale evacuation of the citizens on account of war scare. Out of 1,26,983 vaccinations, 27,285 were primary vaccinations and 99,698 re-vaccinations.

Number of successful re-vaccinations:—27,042 primary vaccinations and 4,321 re-vaccinations were successful, the percentages of success being 99.7 and 6.3 respectively as against 99.8 and 5.4 respectively in the preceding year.

The number of persons successfully vaccinated was 40.3 per mille of the census population as compared with 27.1 in the preceding year.

Infantile vaccinations:—18,284 primary vaccinations of infants under one year of age were performed of which 18,123 were successful.

Verification of births:—39,935 births were verified for the purpose of vaccination during 1943. Of these, 3,616 children died and 7,884 children left the city before they attained one year of age and without being vaccinated. 18,123 children under one year of age were successfully vaccinated. The vaccination of 716 children was postponed on medical grounds.

Inspection of vaccinated persons:—Out of 27,285 primary vaccinations and 99,698 re-vaccinations performed, 22,407 primary vaccinations and 31,989 re-vaccinations were verified by the Medical Officers of Registration and Vaccination and the Asst. Health Officer in charge.

8 persons were prosecuted for failure to comply with the vaccination by-laws and 6 were convicted.

Measles:—4 deaths were recorded with a death-rate of 0.005 per mille. There was no death from the disease in 1942 while the rate for the quinquennium, 1938-42, is 0.003.

Malaria:—67 deaths were registered from malaria compared with 27 deaths (excluding 255 deaths among the evacuees from Burma) in 1942. The death-rate was 0.08 per mille of the estimated population against 0.03 (excluding deaths among the Burma avacuees in 1942), 0.05 being the rate for the quinquennium, 1938-42.

Mosquito control measures:—The year 1943 was a strenuous one from the view point of anti-mosquito work. There was exceptional rainfall during the year. On account of this, the sub-soil water rose high, extensive stagnation occurred everywhere and all the drains got silted up. All these factors were favourable to the breeding of mosquitoes. It was even feared that malaria might break out in an epidemic form. This was averted, however, by the energetic, vigorous and speedy measures adopted by the anti-malarial staff.

Anti-mosquito operations were carried out by the anti-mosquito staff consisting of one Medical Officer (Malaria), 3 Supervisors, 44 Maistries and 144 Coolies. The city was divided into three ranges for the campaign and each range was in charge of a Supervisor.

Tanks & ponds:—There were 396 ponds and tanks at the beginning of the year. All of them were constantly inspected and kept stocked with larvicidal fish. 144 private tanks and 9 Corporation tanks were attended to departmentally. The amount charged and collected from the owners came to Rs. 1,586-14-0. 5 private tanks had to be cleaned free of charge on account of their receiving storm water from the surroundings. The remaining tanks and ponds were attended to by the owners themselves and kept clean and free from mosquito larvae. Besides these natural tanks and ponds, Government had built 204 A.R.P. static tanks in different parts of the city for fire fighting purposes. Thep were all kept clean and stocked with larvicidal fish.

Wells:—About 17,073 wells existed in the city and all of them were periodically examined by the staff to prevent breeding of mosquitoes in them. Of these, 25 were filled up. 327 had Cuddappah-slab coverings and 452 had trap-door fittings. 133 were found in a neglected condition and were immediately cleaned and stocked with larvicidal fish.

The staff paid special attention to the wells breeding anophelene stephensi (malaria carriers). These wells ware inspected frequently and treated effectively till the breeding in them ceased. The staff also detected mosquito breeding in broken vessels, tins, cisterns, drains, etc. and took prompt steps to prevent further breeding.

In order to provide an alternative source of water supply in the event of the breakdown of regular pipe water supply as a result of possible enemy action, Government ordered the selection and chlorination of 6,000 wells.

The wells selected were kept clean and chlorinated. After the floods in October when road water mains in Kilpauk were damaged and water supply to several divisions was cut off, all the wells in these divisions without an exception were chlorinated at regular intervals till normal water supply was restored.

Anti-stegomyia operations:—Stegomyia control measures were carried out as in the previous years within half-a-mile radius of Madras Port Trust. This area was inspected 17 times during the year under report. The stegomyia house-index was furnished to the Director of Public Health every month. The mosquito house-index for the 17 rounds ranged from 0·35 to 1·30, the index at the time of commencement of the survey in 1936 being 14·0. Similarly the stegomyia house-index of the year under report ranged from 0·10 to 0·37 against 9·9 in 1936. Samples of larvae were collected in the specified area around Port Trust. They were bred into adult mosquitoes and their species ascertained in the laboratory. Letters containing instructions to arrest the breeding of mosquitoes were issued to the owners or occupiers of premises where mosquito breeding was noticed. Public offices, institutions and firms were also instructed to take preventive measures and thereby stop mosquito breeding in fire-buckets, pots, overhead cisterns, etc.

The activities of the house-to-house inspection squads were confined to divisions without complete under-ground drainge, namely, divisions 19, 20, 21, 22, 26, 27, 28, 29, 36, 37, 38 & 40. The staff inspected wells, cisterns, drains, cesspools, stagnation in pits, culverts, etc. and prevented the breeding of mosquitoes in these places. The mosquito house-index for the 36 rounds made by the staff in these divisions ranged from 1.80 to 2.45 compared with the mosquito house-index of 9.5 at the beginning of the survey in 1937. The improvement effected in controlling mosquito nuisance in these divisions during the year under report was considerable in spite of the adverse conditions already mentioned.

During the course of their work the staff detected and removed old and unserviceable articles which would otherwise have become breeding places of mosquitoes after rains.

Public drains and cesspools, all covered drains, open drains, ditch drains, stagnation in marshes were petrolised once a week. The construction of new storm water drains to relieve the flooding of lowlands and the impounding of water in the Kelly's drain for A. R. P. fire-fighting purposes increased the petrolising work of oil gangs. Liquid fuel and kerosene mixture were used as larvicides. Spraying with Pyroxide mixture as an insecticide was done in cases where adult mosquitoes had to be killed.

The Cooum and the Buckingham Canal:—In both these water-ways a separate river gang operated and removed the weeds and moss. A number of sumps that had been sunk on the banks contained stagnant water and necessitated the removal of moss and oiling to prevent breeding. Other pools and puddles on their banks were also attended to and kept free from mosquito breeding.

Reclamation of low-lands:— Parts of low-lands were reclaimed (1) west of Wall Tax Road (2) next to Slaughter House (3) in Couransmith Nagar (4) in front of Vyasarpady Dispensary (5) in Perambur Tank (6) in Nungambakkam Lake (7) in Venkatesapuram (8) at the end of Brodies Road near Adyar (9) in Kilpauk Cemetery (10) in K. I. Hospital compound (11) in Kathiwakkam High Road.

Enteric fever. -658 attacks and 90 deaths occurred among the residents of the city during the year.

145 cases were admitted into the various hospitals and institutions in the city from the adjoining districts for treatment and 26 of them were fatal.

The death-rate in 1943 was 0.11 per mille excluding deaths among outsiders against 0.16 in 1942, the quinquennial, 1938-42, average being 0.19.

Preventive measures were adopted promptly in all the cases. 29, 80 antitypoid inoculations were performed among contacts and residents in the area.

Other fevers:—2,345 deaths were registered from "other fevers" against 1,341 in 1942. The death-rate was 2.90 per mille of the estimated population as against 1.69 in 1942, and the quinquennial (1938-42) average of 2.56.

Tuberculosis:—398 deaths were registered from tuberculosis against 301 in 1942. The death-rate was 0.49 per mille of the estimated population in 1943, 0.38 in 1942, the average rate for the quinquennium, 1928-42, being 1.21.

General respiratory diseases:—7,857 deaths were registered with a death-rate of 9.73 per mille of the estimated population against 4,093 deaths with a death-rate of 5.15 in the previous year. The average death-rate from respiratory diseases for the quinquennium, 1938-42, was 7.76. The large number of deaths was due to the floods in the last quarter of the year.

Deaths from "Child-birth":—275 mothers died after child-birth. The maternal mortality rate was 9.32 per 1,000 live-births compared with 7.46 in 1942, the average rate for the quinquennium, 1938-42, being 8.20.

Deaths from "Other Causes.":—14,953 deaths excluding 276 deaths from injuries were registered under this group of causes against 9,113 in 1942. The death-rate was 18:51 per mille of the estimated population in 1943, 11:47 in 1942 and 16:49 for the quinquennium, 1938–42.

Certified deaths:—5,836 deaths were certified by the various hospitals and institutions in the city. 1,104 deaths were certified by the private medical practitioners. The certified deaths represented 22.8% of the total deaths compared with 21.5% in 1942. Medical Officers in charge of Registration of Births and Deaths verified the causes of other deaths.

MEDICAL RELIEF:—27 out-patient dispensaries, 2 leprosy and skin clinics and 1 venereal clinic and 1 infectious diseases hospital continued to give free medical aid to the sick, especially among the poor in the city. The Infections Diseases Hospital, Krishnampet, functioned temporarily and remained open for a period of 2 months during the epidemic of cholera.

In the 20 allopathic, 4 unani, 2 siddha and 1 ayurvedic dispensaries only cases of minor ailments were treated. The total number of such cases treated in them was 22,31.710 of which 9,87,241 were new cases. The number of cases treated for skin affections totalled 96,965. In the dispensary at Nungambakkam 5 cases of leprosy were treated and they were given 10 injections.

The Leprosy and Skin Clinic, Ice House Road, recorded a total attendance of 50,654 cases of which 345 were new cases of leprosy and 15,479 were new cases of skin and other diseases. 5,375 injections were performed for leprosy and 615 injections for skin diseases.

Of the leprous cases treated in this clinic 185 showed improvement, 22 became symptom free and 8 had the disease arrested. Cases fit for institutional treatment were directed to the Lady Willingdon Leper Settlement at Thirumani.

The leprosy and skin clinic attached to the dispensary at Vyasarpady treated 7,868 cases of which 101 were new leprosy cases and 2,619 were new skin cases. 2,777 injections were given for leprosy. Treatment resulted in improvement to 52 cases; 1 case was rendered symptom free and in 11 cases the disease was arrested.

Of the skin diseases, scabies showed increased incidence and became widely prevalent towards the close of the year under review. Its widespread prevalence became a matter for anxious consideration. Besides investigating the cause for its incidence, effective remedial measures were contemplated.

In the Venereal Clinic, Pulianthope, the total cases attended numbered 16,536. There were 1,646 new cases consisting of 1,356 males, 287 females, and 3 children. Of the new cases, 388 had syphilis, 822 gonorrhoea, 155 chancroid and 281 other diseases of venereal origin. During the year 1,569 injections were given, 870 urethal smears were examined for gonococci and 17 minor operations were performed.

There were 279 cases of primary syphilis, 74 cases of secondary syphilis, 2 cases of tertiary syphilis, 31 cases of latent syphilis and 2 cases of congenital syphilis. All the syphilitic cases were rendered free from open lesion and symptoms. They were instructed to continue treatment for some more time.

In the treatment of gonorrhoea Sulphonamide group of drugs was used with considerable success. This group of drugs proved almost a specific to gonorrhoea. Plain Sulphanilamide was largely used and its administration by mouth for gonorrhoea yielded excellent results. Sulphapyridine and Sulphathiozole were used for cases which proved refractory to Sulphanilamide Sulphanilamide proved effective in the treatment of soft sores, lympho granuloma inguinale and erosive balanitis. Its internal administration caused subsidence of glands and its external application cured open sores.

The Infectious Diseases Hospital, Tondiarpet, treated all cases of infectious diseases occurring in the city. Cases sent from the adjoining district of Chingleput were also admitted and treated. A war time feature was the admission for treatment of infectious diseases cases occurring among the military personnel stationed in and near the city.

There were 2,483 admissions during the year, of which 1,113 were cases of cholera and 74 of small-pox. There were 5 cases of meningitis and 6 cases of diphtheria. Of the total of 2,707 cases treated, 1,950 were cured and 658 died.

The Krishnampet Isolation Hospital was temporarily opened from 2-1-1943 to treat cholera cases. There were 345 admissions of which 247 proved to be cases of cholera. Of the total cases treated, 203 were cured and 142 died.

It was closed on 28-2-1943 to be converted into a Special Home for diseased and infirm beggars. Its conversion into a home for the reception of such cases was completed before the end of the year.

Poor House:—The female section of this institution was reserved as an A. R. P. "Rest Centre" and the number of admissions during the year had to be restricted.

There were 153 inmates at the beginning of the year; 225 were admitted; 159 left and 101 died.

In connection with the celebration of the Tunisian Day on 21-5-1943, 2,000 persons were fed in this institution. H. E. the Governor paid a visit to this institution on that day and recorded his appreciation as follows:—

"I am very pleased indeed to have paid my second visit to this most excellent institution and am most appreciative of the great work that it is doing.

To-day's visit is in connection with the great victory of the United Nations in Africa, but I hope that I shall come again to celebrate the final victory of right over might.

However I know that either in peace or in war you will carry on your noble work to alleviate distress and suffering and I wish you all success in the future."

The usual feasts on important festival days and on the birthday of His Highness the Maharaja of Travancore were given out of the interest from the endowments provided for the purpose. Mr. Lalu Meyan gave a donation of Rs. 25 for the special feeding of the inmates on 15-7-1943.

MEDICAL INSPECTION OF CORPORATION SCHOOLS (1943-44):The number on rolls in the schools inspected was, 16,165 boys and 16,318 girls and the average attendance in them was 12,485 boys and 11,818 girls. 12,938 boys and 12,475 girls were examined during the year. The percentage of children examined to the total number on rolls in the schools inspected was 75.24.

7,850 boys (60.67%) and 5,633 girls (45.15%) were defective and required treatment, the percentage of defectives during the previous year being 58.44 among boys and 39.29 among girls.

There was a further drop in the nutritional condition of the children, the percentage of illnourished children rising from 24.29 to 26.52 in the case of boys and from 1.70 to 6.46 in the case of girls. A large increase in the skin diseases, especially scabies, was noticed.

The details of defects are summarised and given below.

Personal hygiene, malnutrition and catarrhal conditions:—1,314 boys (10·16%) and 574 girls (4·60%) were found to be dirty, and were instructed to bathe and wash their clothing daily. 3,421 boys (26·52%) and 806 girls (6·46%) were undernourished against 24·29% and 1·70% respectively in the previous year. 2,422 boys (18·72%) and 1,147 girls (9·19%) had dental and oral complaints. 1,905 children had stomatitis of a catarrhal type. 1,085 boys (8·39%) and 1,623 girls (13·01%) had diseases pertaining to the nose and the throat. 2,160 children had enlarged tonsils and 456 of them were advised removal of the tonsils as they were infected. 545 had eye diseases. 85 were having defects of vision. 200 children had discharging ears and other complaints pertaining to the ear. 13 were found short of hearing and were given seats near the teachers. 29 were having defects of speech.

Circulatory and respiratory diseases:—112 children were having defects relating to the heart and blood, 53 had anaemia and were treated at the dispensaries. 2 children showed suspicious signs of tuberculosis of the lungs. 5 had tubercular affections of the glands. They were treated with benefit, 290 children were having bronchitis and other lung diseases. 3 children had enlarged spleen due to malaria.

Diseases of bones, joints and nervous system:—339 cases came under this heading. They were mostly deformities of chest due to rickets in their younger ages. 31 had infantile palsies and functional disorders.

Infectious diseases, deformities and other diseases:—3,118 boys (24·10%) and 2,665 girls (21·36%) had infectious diseases mostly skin conditions, the corresponding percentages during the previous year being 17·58 and 13·31 respectively.

During the later half of the school year a considerable increase in the incidence of scabies was noticed. As many as 7,390 children were affected in all the schools. Special measures were adopted to deal with this condition. A cleansing scheme was introduced in all the schools and soaps, towels and sulphur ointment were distributed and the affected children were given baths and treatment on prescribed lines under the supervision of the Medical Inspectors. A considerable improvement was noticed in the children after this treatment as the statement below bill show:—

treated for scabies. 7.360

treatment. 5,831

No. of children No. cured by the Number improved by the treatment. . 1.144

There were 356 children having signs and symptoms of leprosy in the schools inspected. 841 children were suffering from diseases and defects not included in any of the above items. 31 had deformities of limbs or joints. Details are shown in the statement.

General preventive work: -3,223 children were re-vaccinated. 8,150 were protected against cholera by inoculation, while 4,525 were inoculated against typhoid.

Medical treatment: -All the minor ailments were treated at the Corporation dispensaries while the more serious defects were referred to the Government hospitals. As stated in previous reports leper children were treated at the Skin Clinics, Stanley Hospital and Vyasarpady Dispensary, while in the south range, treatment had to be given at the dispensaries for want of conveyance.

Leprosy:—There were 356 children suffering from leprosy in early and non-infectious stages in the schools inspected. 114 were entrants and 242 old cases. Parents of those children have been advised. The distribution of the dise se according to sex was as follows:-

Sex.	No. Defective	Percentage to the total examined.	Percentage to the total of leper cases.
Boys Girls	245 111	1.89 0.89	68·82 31·18
	356	1.40	100.00

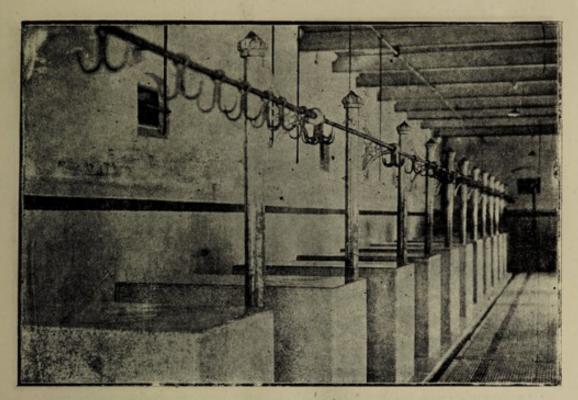
The results of treatment given to them at the institutions showed that the disease was arrested in 2 children. 34 children showed improvement in their condition while the rest continued the treatment.

Re-inspections and following-up work:-187 re-visits were paid to the schools to follow up the defectives after the routine visits. 7,396 re-examinations of children were conducted. The details of the results of treatment are given in the form of a statement on page 30, a summary of which is given below:-

155 ill-nourished children regained normal health after treatment. 108 had their carious teeth extracted while 521 suffering from stomatitis were cured by treatment 50 children had their tonsils and adenoids removed by operation. Besides the 6,975 cases of scabies cured and improved, 1,204 children suffering from other skin affections were cured after treatment and attention to personal hygiene. 30 children underwent circumcision operation.

Co-operation of parents and teachers: -2,768 parents called at the medical examination of their children and received advice. The school staff followed up the treatment given to the defective children till they were cured. Special attention was paid to the leper children to ensure that they attended the treatment centres regularly.

School sanitation: - Change of premises was suggested in the case of one school which was in a building unsuitable for school purposes. Improvements to the existing buildings were suggested in 29 schools. 118 of the schools inspected had flushout latrines. 47 of the schools inspected were recommended provision of playground accommodation. Proper water supply has been provided for all the schools. Strained tap water was supplied to the children for drinking. 63 schools had bathing facilities.



Improved Mutton Stalls, Moore Market.



Beef Stall Building, Moore Market - After Improvement.



Fowl Stall Building, Moore Market - After Improvement.



Public Convenience, Fraser Bridge Road.

Midday meals:—In 102 schools 6,250 children were provided with midday meals on school working days. The Medical Inspectors continued to supervise the sanitary arrangements.

Prcpaganda:—105 lectures and 119 talks on health subjects were arranged in the schools. The total attendance at these was 11,486.

WATER ANALYSIS:—The chlorination of the city's water supply continued to be an important feature of the water works system during the year.

The Poondi Reservoir which was nearing completion at the end of the year was opened in June, 1944.

The number of samples examined during the year was 14,407 against 13,452 in 1942.

The total rainfall in the catchment area of the Sholavaram Reservoir was 76.08" against 29.39" in 1942. The depth of water was found to be maximum in October and minimum in April. The organic content as represented by Tidy's test was found to vary from a minimum of 0.110 in December to a maximum of 0.280 part per 100,000 in March. The bacterial quality of the water was generally poor almost throughout the year, coliform bacteria being present in quantities varying from 1 c.c. to 60 c.c.

The total rainfall in catchment area of the Red Hills Reservoir was 66.50" against 30.67" in 1942. The level of water was found to decrease gradually from January when it was highest to September when it was lowest, and thereafter it showed an increase till December. The figures for oxidisable organic matter varied from a minimum of 0.055 part in December to a maximum of 0.195 part in September.

Samples of water collected from the Red Hills end of the raw-water conduit resembled generally those taken near Jones Tower in the reservoir

Raw-water samples drawn from the Kilpauk end of the raw-water conduit were of highest purity in November and of poorest quality in July, bacteriologically. Chemically, the figures for "oxygen absorbed" varied from a minimum of 0·100 part in December to a maximum of 0·172 part per 100,000 in September.

There were 17 sand filters each containing only a few inches of sand. Of these, 8 to 9 beds on an average were working at a time with no fixed rate of filtration. A maximum of 22.82 m.g.d. was filtered in June and August and a minimum of 16.50 m.g.d. in January and the mean for the year was 20.29 m.g.d. As there is no special arrangement for storing water, the water strained daily was pumped straight into the city mains representing the average rate of supply. The maximum dose of chlorine which was applied to the filtered water was 2.16 p.p.m. in October and the minimum was 0.90 p.p.m. in December.

The percentage of samples containing no coliform bacteria in 60 c.c. was highest (100%) in January, February, March, April and May and lowest (51.2%) in September in the samples drawn from the test-tap at Kilpauk. The figure for "oxygen absorbed" was highest (0.117 part) in September and lowest (0.063 part) in November.

Coliform bacteria were absent in volumes of 60 c. c. in 90% of the samples in October (maximum) and in 60% of the samples in April (minimum) from the distribution system.

FOOD CONTROL:-The campaign started in 1942 to improve the sanitary condition of the markets in the city was vigorously continued

during the year under report. In almost all the markets raised platforms were provided for the offal and fish stalls.

New Washermanpet market and Tondiarpet, Mannady and Macdonald markets closed in 1941 and 1942 were improved and re-opened during the year under report. In New Washermanpet market the southern portion was rebuilt and a flushout latrine with 2 seats was provided. In Tondiarpet market the walls were repaired and colourwashed, wood-work repainted and glass cases provided for the sale of dry fish. In Mannady and Macdonald markets the drains were deepened with proper gradient and overhead tanks installed.

In Kothawal market stalls were raised and the construction of the modern type of sanitary convenience was completed. Demellows Road market was extended in the north-east corner for accommodating dry fish stalls. In Ellamman Koil market and Jubliee market overhead tanks were reconstructed to provide adequate water supply. Licence to Connemara market was withheld to make the owner carry out the required improvements. In Thannithorai market a cart-stand was provided and the flooring of the rear portion made impervious.

A good many improvements were effected to the Corporation markets. In Moore Market the mutton and butter stalls were renovated. The construction of the new hawker's stalls was under progress. In Fruit Market the inner courtyard was provided with granolithic flooring and the verandah around it completed. The provision of a passage under the clock tower improved the appearance of the market. Remodelling of the stalls inside was under progress. In Smithfield Market improvements costing Rs. 4,380 were carried out.

PUBLIC ANALYST'S REPORT:—During the year ended 31st December 1943, the number of samples analysed under the Madras Prevention of Adulteration Act was 2,060 against 1,755 during 1942. Of the 2,060 samples analysed, 1,593 samples were genuine and the remaining 467 were found to be adulterated. The percentage of adulterated samples during the year under report was 22.7 against 20.7 in the previous year. The number of samples analysed during the year, namely 2,060, constitutes a record since 1930, when sampling was commenced under the Act.

The samples comprised milk, butter, ghee, gingelly oil, groundnut oil, cocoanut oil, coffee powder, coffee tablets, tea, ghee substitutes, chicory, chicory substitutes and turmeric. A statement of the samples analysed during the year under report and five previous years is given on page 36.

It would be seen from this statement that the percentage of adulterated samples during the year under report was 22.7 against 20.7 in 1942, 24.3 in 1941 and 31.0 in 1940. There has been a slight increase in the percentage of adulterated samples in 1943 as compared with 1942. It should be remembered that the figure for 1942 was the lowest on record and that for 1943 is only slightly higher.

The position would have been much better but for the fact that in the case of milk and butter, adulteration had increased considerably. The increase in adulteration was due to the considerable shortage in the supply of these articles and the greater temptation to adulterate on account of the higher prices prevailing during the year. Ghee improved slightly, adulteration was extremely slight in the case of gingelly oil and there was no adulteration in the case of groundnut and cocoanut oils. The adulteration of coffee decreased but tea continued to be genuine.

During the year under report, 9 samples of turmeric were examined for coloring with lead chromate, of which 5 were reported as adulterated on account of their excessive lead content.

The percentage of adulterated samples in the case of ghee is shown as 24.3 in Statement No. I, but the figure was only 11.2 in the case of samples taken from shops, but the usual 100 per cent adulteration was recorded in the case of ghee hawkers. Unless the public cease to buy ghee from them, the trade of hawkers cannot be stamped out completely.

The details regarding the various articles of food analysed during the year under report are given below:--

Milk:--380 samples were analysed. Of these, 239 were cow's milk, 114 were buffalo's milk and 27 were declared by the vendors as mixtures of cow's and buffalo's milk. Of the 239 samples of cow's milk, 101 samples were reported as adulterated Of these, 97 samples contained added water ranging from 7 to 68 per cent, one was deficient in milk-fat to the extent of 27 per cent (Statutory minimum for milk-fat for cow's milk: 3.0 per cent), 3 samples contained added water and were also deficient in milk-fat (deficiency over and above that accounted for by the added water). Of the 114 samples of buffalo's milk, 53 contained added water ranging from 3 to 64 per cent and 2 samples contained added water and were also deficient in milk-fat, the deficiency being more than could be accounted for by the added water (Statutory minimum for milk-fat in buffalo's milk: 4.5 per cent). Of the 27 mixtures of cow's and buffalo's milk, 21 samples contained added water ranging from 8 to 52 per cent and one sample contained 39 per cent added water and 3.3 per cent cane sugar, the sugar evidently having been added to defeat the lactometer test (Sp. gr. in lactometer at 85 degrees F is 26.4).

The detection and estimation of added water was in general based on deficiency in solids-not-fat (Statutory minimum: 8.5 per cent for cow's milk and 9.0 per cent for buffalo's milk) and Freezing Point (Hortvet). In the case of one sample of cow's milk which was found to be curdle!, added water was estimated from the figures for ash and nitrogen (Statutory minimum for nitrogen for cow's milk: 0.5 per cent).

Butter:—189 samples were analysed and 59 were reported as adulterated. Of the 59 adulterated samples, 54 contained excess water (Statutory maximum limit for water in butter: 20 per cent) the excess water varying from 2.2 per cent to 53.5 per cent. 3 samples contained fat other than milk-fat and 2 samples contained both excess water and fat other than milk-fat.

Ghee: - 703 samples were analysed and 171 were found to be adulterated. The commonest adulterant employed was hydrogenated (hardened) bils of varying degrees of hardening.

The extent of adulteration varied from 15 to 100 per cent.

Gingelly oil:—437 samples were analysed. 428 samples were genuine and the remaining 9 contained arachis (groundnut) oil ranging from 15 to 85 per cent.

Groundnut oil:-116 samples were analysed and all were genuine.

Cocoanut oil: -42 samples were analysed and all were genuine.

Coffee powder:—83 samples (71 samples of powder and 12 samples of coffee tablets) were analysed. 16 samples were found to be adulterated. The Madras Act prohibits the addition of any substance other than chicory to coffee intended for sale, and in the case of chicory, the percentage of chicory admixed has to be declared by means of a label. Of the 16 adulterated samples, 2 samples did not contain the proportion of coffee and chicory as stated on the label, 8 samples contained roasted and ground Mahua (Bassia) flower, 3 samples contained roasted and ground Bengal gram, one was adulterated with the pericarp of coffee, one was adulterated with exhausted (spent) coffee and one contained an unidentified adulterant.

Tea:-30 samples were analysed and all were genuine.

Ghee substitutes:—"1 samples were analysed. 10 were described as vanaspathi, 11 as vegetable product and 40 as marvo. 39 of these samples consisted of 100 per cent hydrogenated (hardened) vegetable oils (the common oil used for hydrogenation being groundaut oil). 20 samples were mixtures of butter-fat and hardened oils (butter-fat from 5 to 60 per cent) and 2 samples consisted entirely of ghee (butter-fat).

Other articles:—19 samples were analysed. These included 2 samples of safflower oil, both of which were found to be adulterated with groundnut oil, one sample described as 'refined oil' which contained 400 per cent of refined groundnut oil, one sample sold as mattam oil consisting of 50 per cent gingelly oil and 50 per cent groundnut oil, 9 samples of turmeric, 5 samples of chicory and one sample described as chicory substitute.

Samples of turmeric were examined for their lead content (Statutory maximum limit for lead in turmeric: 5 parts per million). Of the 9 samples examined 4 contained only traces of lead (below 5 parts per million) and the other 5 contained excessive quantities of lead ranging from 53 parts per million to 118 parts per million.

Of the 5 samples of chicory examined, one was genuine chicory (root of Cichorium Intybus) and the other four consisted of 100 per cent Mahua (Bassia) flower. One sample described as Chicory substitute also consisted of 100 per cent Mahua flower.

Details of the examination of other samples not taken under the Food Adulteration Act during the year under report are given below:—

Articles examined.

Report.

7 Samples of rice from the Health Depart- 3 samples were reported as ment. unfit for human con-

3 samples were reported as unfit for human consumption and the remaining 4 as fit.

- 3 Samples of milk from the Health Department.
- All adulterated and contained added water.
- 1 Sample of milk from the War Technicians' Hostel, Electrical Department.
- Contained 18 per cent added water.
- 1 Sample of ghee from the Health Department.
- Genuine.
- 2 Samples of bread from the Health Depart- Excessive water ment. Excessive in one
 - Excessive water and acidity in one and excessive acidity in the other.

A statement of the action taken on the adultered samples of 1943 and the adulterated samples of the previous year pending disposal on 1st January 1943 is given in Statement No. II on page 37.

The number of samples reported as adulterated during the year under report was 467. Action taken in respect of these samples comprised warning of the vendors in 34 samples, seizure and forfeiture of the consignments of articles of food in respect of 123 samples and prosecution of the vendors in the case of 310 samples.

Of the 310 prosecutions launched, vendors were convicted in 213 cases, 4 cases were withdrawn, 6 were acquitted and 87 were pending disposal on 31st December 1943.

During the year under report, there were 213 convictions in respect of the samples examined in 1943 and 26 convictions pertaining to the prosecutions launched in the previous year. The total number of convictions during the year for the sale of adulterated articles of food was 239 against 158 in 1942. The total amount of fines imposed was Rs. 13,105, against Rs. 5,180, in 1942. The average fine per conviction during 1943 was Rs. 55 against Rs. 33 in 1942.

Action taken under other sections of the Act and the Rules made thereunder is given below:—

- (1) One vendor was prosecuted and fined Rs. 25 for preventing the Food Inspector from taking a sample.
- (2) Two vendors were fined Rs. 50 and Rs. 10 repectively under Rule 6 of the Prevention of Adulteration Rules, for keeping food for sale in imperfectly tinned brass vessels.
- (3) 496 vessels used for keeping food for sale and which were found to be dirty and imperfectly enamelled or tinned were seized for contravening Rules 5 and 6 of the Madras Prevention of Adulteration Rules.

Before concluding, it may be pointed out that during the latter part of the year under report, there was a welcome increase in the fines imposed as a result of which the average fine per conviction during the year worked up to Rs. 55 which is a record for the past 14 years. There is no doubt that deterrent fines would reduce the incidence of adulteration and the effect of the heavier fines is already being noticed.

SANITATION:—8,759 feet of new sewers were laid during the year bringing the percentage of the sewered area in the city to 93.03. 612 flushout latrines were installed in private houses and 17 public conveniences opened before the close of the year.

970 plans for construction and reconstruction of buildings were received for scrutiny; 268 of these were rejected for sanitary reasons. 190 houses were newly constructed. Provision of flushout latrines was insisted upon for 616 houses in sewered areas.

11,337 houses were inspected to detect sanitary defects and 1944 notices were issued to rectify the defects detailed below.

- (1) Want of proper drainage in 443 houses.
- (1) Want of sufficient latrine accommodation in 216 houses.
- (3) Defective water-supply in 208 houses.
- (4) Bad ventilation in 524 houses.
- (5) Miscellaneous defects in 726 houses.

As a result of action taken 1,884 houses were rectified. 690 houses were inspected to investigate and remedy complaints received.

8,397 applications for licensing offensive trades were received and dealt with during the year; 7,796 were sanctioned and 601 were refused; 403 prosecutions for carrying on offensive trades without licence and 85 for contravening the licence conditions were launched during the course of the year under report.

66 lodging houses were registered under the Public Health Act. Before the issue of certificates to these lodging houses, the provision of necessary sanitary conveniences was insisted upon.

The condition of the cattle yards received particular attention during the course of the year. 589 were licensed at the beginning of the year; 571 came to be improved as a result of action against the owners; 498 were found unfit for licensing. The closure of 78 cattle yards was effected by launching prosecutions against the owners.

The cattle yards at Basin Road, Purasawalkam, Chintadripet and Triplicane were well maintained. The animals housed in them numbered 128.

The Corporation dhobikhanas in Robinson Park, Chetpet, Conransmith Nagar and Venkatathri Naicken Street functioned satisfactorily.

Meat supply:—The three Corporation Slaughter Houses worked efficiently during the year. 5,22,317 sheep and goats, 27,688 cattle and 1,787 pigs were brought for slaughter. Of these animals, 4,493 sheep and goats, 280 cattle and pigs were found unhealthy and not allowed to be slaughtered. 43 carcasses and 29,594 organs of the animals slaughtered were found diseased and destroyed as being unfit for human consumption.

The construction of the sheep shandy was taken up during the course of the year.

177 animals were permitted to be slaughtered privately for religious purposes.

Weights & measures:—All public and private markets, bazaars, shops, stalls. godowns and depots in the city were periodically visited and the weights, measures and scales in use were examined and checked by the 2 Inspectors of Weights, Measures and Scales. Street hawkers were also intercepted, and their weights, measures and scales tested by them. 791 weights, measures and scales found defective were seized by them and confiscated during the year under report.

Anti-rabic measures:—There were 5 licensed dog catchers for catching stray and ownerless dogs in the city. They accompanied the Superintendent, Lethal Chamber, in the motor van specially designed for the purpose, and caught dogs found straying in public places. 14,076 such dogs, of which 7,594 were bitches, were caught by them.

In the Lethal Chamber 13,395 dogs were destroyed; 510 claimed by owners and 216 given to the Medical Colleges.

There were 10 licensed pig catchers for catching stray pigs in the city working under the immediate control of the Superintendent, Slaughter Houses. 84 such pigs were caught by them. Of these pigs, 77 were released and 7 auctioned. All of them were subsequently slaughtered in the Pig Slaughter House.

The Zoological Garden:—The animals of the zoo removed to Erode in 1942 continued to remain there in charge of the Superintendent. An Assistant Superintendent was appointed on 1-9-1943 and placed in charge of the Zoological Garden in People's Park. Mr. P.V. Ramanujam Chettiar continued to be Hony. Visitor to the zoo.

A male calf was born to the giraffe. One wild goat, one langur monkey and a leopard cub were received as gifts. 42 spotted deer, 5 ducks and 1 hill patridge died during the floods in October.

The gate fees collected departmentally amounted to Rs. 4,358-15-6.

Swimming bath:—The Royal Swimming Bath became very popular especially with the military personnel stationed in the city and suburbs. A sum of Rs. 8,060-5-0 was realised as admission fees during the year against Rs. 4,080-5-0 in 1942.

Health propaganda:—2,810 lectures and 1,755 talks on public health subjects were conducted during the year. 30 of the lectures were accompanied by demonstrations with magic lantern. Lectures on venereal diseases with similar demonstration were specially held for the benefit of the military personnel stationed in the city, The A.R.P. propaganda van was also utilised to deliver a few lectures. The attendance at all the lectures was always large.

CONSERVANCY:—The total expenditure on conservancy for the year 1943-44, was Rs. 13,37,316-13-3, against Rs. 11,62,440-7-8 for 1942-43.

There were 2,998 coolies for the cleaning of streets, drains, latrines and water-tables. 459 trollies and rubbish carts, 43 nightsoil carts and 35 sewage and silt carts were used for the removal of rubbish, filth, sewage and silt. Motor lorries required for the removal of rubbish and filth in the city were marched out daily from the Lorry Station and the charges incurred for the supply of these lorries were debited to the Health Department. The total amount so debited during 1943-44 was Rs. 1,27,537-14-6.

Consequent on the construction of a pail depot at Korukkupet, the pail depot at Demellows Road was closed. The new depot at Korukkupet worked satisfactorily during the year under review.

The tipping platforms at Langs Garden and Krishnampet continued to serve but the one at Basin Bridge Depot could not be used during the year as it was under the control of the Military Authorities. The incinerator at Basin Road functioned during the year while the other at Krishnampet was kept closed for repairs.

Disposal of rubbish.—About 5,52,522 cart-loads of rubbish were removed during the year against 5,60,200 in the previous year. Of these, 1,47,721 cart-loads were sold; 1,54,630 cart-loads were used for raising low-lands in the city; 41,767 cart-loads of rubbish were burnt at the Incinerator after separating earth and other incombustible materials. The rest of the rubbish was dumped at the Otteri, Korukkupet and Mylapore dumping grounds.

Disposal of filth.—61,330 cart-loads of filth were removed against 62,345 cart-loads removed during the previous year. Of these, 20,716 cart-loads were flushed into the sewers at the pail depots at Ice House Road and Korukkupet. The rest was trenched at the dumping grounds in Otteri and Korukkupet. The amount realised by the sale of manure and cow dung during 1943-44 was Rs. 4,874-2-6.

Public latrines:—325 public latrines existed in the city during the year under report. Of these, 285 were of the flushout type and 40 masonry and sanded latrines. 17 public conveniences were opened for public use during the year at the following places:—

4th Dvn. Narayana Naickan Garden 8th Lane.

10th ,, At the junction of Anna Pillai Street and Stringers Street.

15th ,, Fraser Bridge Road (near the Mofussil Bus Stand).

17th ,, Decastor Road (Paddison Lines).

17th ,, Rutherford-Sundarapuram.

18th ,, Alexander Road (near the Mill Village Wall).

20th ,, Edward Park Street (at the junction of Chellappa Mudaly Street).

25th ,, West Cooum River Road (near the junction of Guruvappa Chetty Street).

26th ,, South Cooum River Road (near the Transport Lines).

31st ,, At the junction of Body Guards Road and Mount Road.

31st ,, By the side of Durga in Mount Road.

36th ,, At the junction of Whites Road and Mount Road.

37th ,, Beer Karan Puram, Teynampet.

39th ,, Malliappupuram (at the end of Rosary Church 1st Lane).

40th " Vannarpuram.

40th " Ellapatha Madha Koil Street.

40th ,, Padavettan Street, Mylapore.

The conservancy staff paid particular attention to the cleaning and disinfection of public latrines and of places where there was frequent committal of nuisance. 1,207 gallons of disinfectants and 3,956 parahs of chunam and 361 lbs. of bleaching powder were used during the year for the disinfection of latrines, drains, roadsides, etc.

Conservancy of private places:—The removal of rubbish and filth from several public institutions in the city was undertaken as per section 197 of the City Municipal Act. The total amount realised by way of fees during 1943-44 was Rs. 36.925-3-0.

Labour:—In pursuance of G.O. No. 4942 L. & M. dated 22-12-1931 coolies retiring on account of old age and infirmity were granted bonus. 365 coolies were provided with tenements in the Corporation Model Lines and 250 coolies were allowed to live in huts on Corporation land.

Conservancy cattle depots:—There were six conservancy cattle depots situated in different parts of the city. Each depot was in charge of a Veterinary Graduate designated as Depot Superintendent. One additional conservancy depot sanctioned for Perambur and Vyasarpady areas was nearing completion.

Animals:—The number of bullocks on hand on 1-1-1943 was 814 as against 796 in 1942. 50 bullocks were purchased during the year. 107 bullocks died during the year as against 110 in 1942. 6 bullocks were sold during the year leaving a balance of 751 bullocks at the end of the year.

Of the 107 casualities, 54 bullocks died of old age, 8 of anthrax, 11 of tuberculosis, 5 of piroplasmosis, 2 of trypanosomiasis, 2 of coccidiosis, 1 of bovine lymphangitis, 8 of respiratory and 6 of digestive diseases and 10 from other causes. There were no deaths from rinderpest as all the animals were protected against it by the sero-virus method,

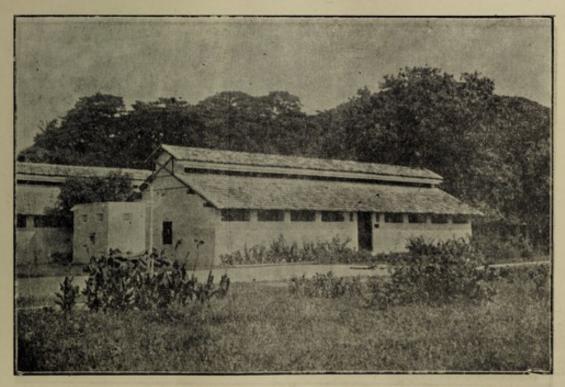
Anthrax:—Of the 8 deaths from anthrax during the year, 3 occurred at A Depot, 2 at D Depot, 1 at E Depot and 2 at F Depot. Preventive measures were promptly adopted and all depot bullocks were protected with anti-anthrax serum.

Tuberculosis:—There were only 11 deaths from tuberculosis. All possible preventive measures were adopted to prevent the spread of infection among conservancy bullocks. Every animal showing clinical symptoms of tuberculosis was immediately destroyed. Bullocks suspected for tuberculosis were segregated and tested with tuberculin and all positive reactors were immediately destroyed.

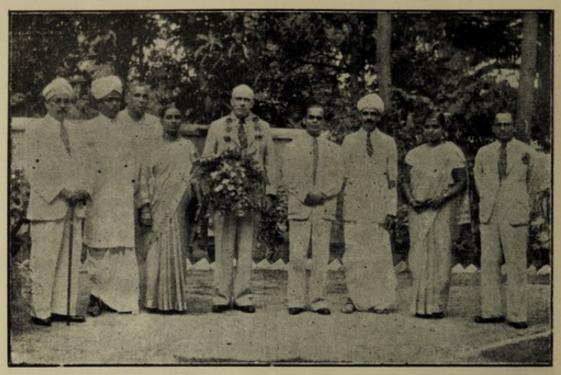
Animals treated:—1,054 cases of diseases among conservancy bullocks were treated in the depots and at the Corporation Isolation Hospital in Vyasarpady.



Special Home for Beggars, Krishnampet - General View.



Main Male Ward, Special Home for Beggars, Krishnampet.



Child Welfare Centre, Kilpauk (opened on 28-6-44 by Mr. T. Austin, C.I.E., I.C.S., Adviser to H. E. The Governor).



View of Maternity Ward, Child Welfare Centre, Kilpauk.

ANNUAL REPORT OF MATERNITY AND CHILD WELFARE SCHEME, CORPORATION OF MADRAS.

During the year under report 15 Child Welfare Centres and 1 Maternity Ward were maintained by the Corporation.

Staff:—The Lady Superintendent continued to be in-charge of the Scheme assisted by 15 Lady Doctors and one Relieving Lady Doctor, 32 Health Visitors, 98 Midwives and 15 Compounders.

Pre-natal clinic:—Pre-natal clinics are held thrice a week in each Centre and the expectant mothers are advised by the Health Visitors during their visits to attend the clinic. 2,976 pre-natal clinics were held in the various Centres and 18,176 mothers attended the clinic and sought medical advice and treatment. They were actually examined and advised by the Lady Doctors and they were followed up by the Health Visitors till their confinement. The pre-natal clinics have gained much popularity and the mothers appreciated the instructions given to them by the Lady Doctors regarding their confinement and the care of the babies and were benefitted by the usefulness of the clinics as a result of which the maternal mortality is very low. The total attendance was 33,169. The Health Visitors registered 17,706 pregnant mothers.

Maternity service:—Out of a total of 29,498 births in the city, 11,227 labour cases including 84 twins came under the care of the Scheme. 9,068 were non-muslims and 2,243 were muslims.

The midwives paid 1,32,401 visits and the Health Visitors 1,38,631 visits in the homes of the patients. The Lady Doctors paid 16,247 visits.

A sum of Rs. 883-10-0 was realised as fees for maternity services rendered to persons whose income ranged from Rs. 50 to Rs. 200 p. m.

Maternal mortality:—Out of 11,227 cases of labour that came under the Scheme, there were only 27 cases of Maternal Mortality as noted below which works out to 2.4 per mille against 3 per mille for 1942 which is the lowest on record ever since the inauguration of the Scheme.

Hospital	 18
Private Doctors	 2
Barber Women	 2
Child Welfare Scheme	 5
	- 27

Infantile mortality:—Out of 8,319 babies born in the year 1942, 273 were still-births and the remaining were kept under observation till the first year of their lives. The mortality among live-births was 945. 1,784 infants left the city or otherwise not traceable and 5,317 infants were living at the end of one year. The infantile mortality rate is 113.5 per mille against 104.4 per mille in 1942. The increase in the infantile mortality rate during the year under report is due to the impaired health of the infants born in 1942 under abnormal conditions during the evacuation period and due to unforeseen floods in the year under report.

Out-patient clinic:—Out-patient clinics were conducted in all the Centres by the Lady Doctors where infants, pre-school children, expectant and nursing mothers were examined, advised and treated for minor ailments. 2,934 clinics were held for infants, toddlers and nursing mothers. 28,163 new infants, 14,435 new toddlers and 29,923 nursing mothers were treated and advised. The total number of new cases that attended the clinics was 88,515 and the grand total was 2,94,825.

Milk supply:—Cow's milk was supplied to 547 deserving babies and 2,938 expectant mothers. The total attendance was 1,39,445.

Ambulance:—The Scheme maintained an ambulance car to convey emergent labour cases to various hospitals in the city and there were 644 requisitions for the same.

Health propaganda:—404 lectures were delivered on matters of health. The total attendance was 17,910. The Lady Doctors gave health talks in all the Corporation Girl's Schools and the total attendance was 33,811.

Conclusion:—Though the city has returned to normal, owing to blackout regulations, maternity services could not be rendered after 11 p. m. With a view to render maternity service even after 11 p. m., to poor people necessary instructions were issued to the staff to attend on cases even after 11 p.m., when the patients provide escort to and fro to the midwives and also cases which were close to the Centres.

Maternity service has been resumed throughout the night from 1-8-44 and the parties who go to the Centres to register labour cases during nights are requested to provide proper escort to the midwives to and fro after 11 p. m.

H. V. KAMALAMMAL,

Lady Superintendent,

Maternity and Child Welfare Scheme,

Corporation of Madras.

Population of the City as per census of 1941:- { Females: 3,69,979} Total 7,77,481.

Showing births, deaths and infantile deaths registered in each division during 1943.

STATEMENT No. I.

1	O+D	Births.	9258855005558888888888888888888888888888	1,071
-	stered.	Infantile Death- rate per 1000 of live births registered		247.30
	antile Des f age) regi	Total	116 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7,295
	Number of Infantile Deaths (under one year of age) registered.	Females.	#522228228882248882585888888888888888888	3,399
	(under	Malos.	**************************************	3,896
	hs	Total.	1128 1238 1238 1238 1238 1238 1238 1238	30,366
	Number of Deaths registered.	Females.	66272888887775777777777777777778888888888	14,346
	Num	Males.	66886666666666666666666666666666666666	16,020
	hs	Total.	260 251 251 251 251 252 253 253 253 253 253 253 253 253 253	867,62
1000	Number of Births registered.	Females.	25.55.55.55.55.55.55.55.55.55.55.55.55.5	14,310
	Num	Males.	255 255 255 255 255 255 255 255 255 255	15,188
The state of the s	Area	in Acres.	1674-11 284-42 283-52 283-52 283-52 883-94 98-94 98-94 98-96 98-96 1224-13 220-40 98-12 220-40 35-42 1224-13 220-40 35-42 1224-13 220-40 35-42 1224-13 220-40 35-42 1224-13 220-40 36-68 86-76 136-70 143-23	18,813.44
1				Total
The state of the s	The second secon	Names of Divisions,	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupot Harbour Muthialpet Kachaleswar Koil Ammen Koil Kothawal Bazar Seven Wells Sowenrpet Peddu Naickenpet Trevelyan Basin Park Town Edapalayam Vyasarpady Perambur Choolai Kosapet Perambur Choolai Kosapet Purasawalkam Vyasarpady Perambur Choolai Kosapet Purasawalkam Vyasarpady Perambur Choolai Kosapet Purasawalkam Kilpauk Komaleswaranpet Egmore Thiuvateeswaranpet Komaleswaranpet Komaleswaranpet Komaleswaranpet Komaleswaranpet Komaleswaranpet Komaleswaranpet Komaleswaranpet Thiusanlibet Royapettah Teynampet Thesgarayanagar Mylapore	
		Divisio	-0044074868888888888888888888888888888888	1
		h—6		

STATEMENT No. II.

VITAL STATISTICS.

Showing deaths registered in each division according to principal diseases during 1943.

Names of Divisions,	New Washermenpet	Singara Garden Sanjeeviroyanpet	Korukupet	Muthialpet	Ammen Koil	Kothawai Bazaar Seven Wells	Sowcarpet Peddu Naickennet	Trevelyan Basin Park Town	Edapalayam	Vyasarpady	Kosapet	Kilpauk	Napier Park	Komaleswaranpet	Egmore Thousand Lights	Nungambakkam	Thiruvateeswarannet	Chepauk	Zam Bazaar	ir oanibper	Roynampet	Theagarayanagar Mylapore	lyar	Ratio of Deaths per 1000 of	estimated population
ons.	-			::	!!	11				::			::	::	1 1						in the last			Total	opulation
Plague.	1	111	::	::	::	11	:	111	:	11	::	11	11	- :					::	:	::	:		1	0.001
Cholera.	1437	:==	17	9	9	0.10	101		**	921	30	12	9	03 00	***		10		200	02	-0	901	65	537	99.0
Small-pox.	13	- :-	.:	::	::	::		: :-	-	11			11	!!			-	1 17	• :	:	11	:0	1,	16	20.0
Monsles.	i.			::	-	::	.:	111	-	::	::	::	::	11				-	11	:	::	-		1	0.002
Enteric.	13	2 -4 0	1-	:00	05 00	177	2-1-	.00	*14.5	00 00	10 :	03 03	02 02	03 00	1		100		000	*13	03	05-	1:	116	0.14
.eizeleM	030	0-1	- 100		:03	os :	03.0	2007	1		es =	11		:00	1	: :•			11	1			107	19	0.08
Other Fevers.	17	108	126	98	20 49	e3 e3	600	30 413	11	204	711	0.00	106	48	13	2 10 0	60	22	250	133	43	55.0	100	2,345	2.90
Dysentery and Diarrhoea.	76	147	138	99	36	26	83.0	388	20	181	213	149	25.55	110	193	75-0	10	200	69	176	105	150	96	3,521	4.36
Tuberole includings	11,	13 0	200	313	10	30	9 0	3.5 23	7	9 7	10	1200	123	91	03 5	1000	9 0		9	10	18	-	14	398	0.49
Other Respirator: Diseases.	148	425	909	156	188	158	160	228	84	233	334	214	274	243	63	2025	122	138	198	299	187	99	107	7,857	9-73
Injuries.	71	13	08-1	0+	c	9	P	1-1-	10	10 01	91	16	7	03.01		01-1		0 :	120	15	10	700	9 *	276	0.34
срич вічр	1	000	17	9	03 10	16	-	324	9	901	99	00 03		1010	200	000		4 00	1.	18	10	000	29 00	275	0.34
All other causes.	293	202	639	276	127	166	171	425	271	350	710	574	65.75	7000	250	308	655	343	343	294	334	250	171	14,953	18-81
-or satased latoT gaitub betetsig	-	130	137	25	26	402	33	816	43	134	144	1028	877	25.00	99	999	20 00	635	689	111	99 19	44	446	30,366	97-50

VITAL STATISTICS.

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STATEMENT No. 111.

e.	Under 1 year of age.	Names of Divisions.	**************************************	Total 3,896 3,3	Grand Total 7,295
7	ge. and under 5 years.	Females.	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	199 2,871 2,818	5,689
10	5 years and under 10 years.	Males.	50 52 52 52 52 52 52 52 52 52 52 52 52 52	605 576	1,181
9	10 years and under 15 years.	Males. Females.	Outratenershipsessessesses inne inne inne inne inne in	254 278	532
7	15 years and under 20 years.	Males.	402519 e 2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	275 409	989
80	20 years and under 30 years.	Males. Females.	81884-0-051123-123-123-123-123-123-123-123-123-123	1.029 1,257	2,286
6	30 years and under 40 years.	Males.	888.441248888888884428888848488888888	57 1,178 1,065	2,243
10	40 years ar and under 50 years.	Males,	5511351143514351435143514351435143514351	1,366	2,156
	_	Females.	82488282838282838282828282828282828282888283838283838283	790 1,363	-
11	50 years and under 60 years.	Females.	E8588887408555555555555555555555555555555	831 3,	I
12	60 years and upwards.	Males. Females.	41-65 13-25	3,183 2,923	6.106

STATEMENT No. IV.

VITAL STATISTICS.

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Total.	Ratio.	15	14.1	36.8	30-1	:
	Total.	-	1027	2686	4-02198	7295
'səsneə	Ratio.	12.9	0.6	18.3	4.0	11.6
All-other	Total.	178	91	491	87	847
tory system.	Ratio.	2.7	3.9	43.4	62.5	35.9
Respira-	Total.	37	40	1165	1375	2617
system.	Ratio.	3.0	2.8	9.4	6.5	2.9
Nervous	Total.	41	09	253	136	490
malforma- tion.	Ratio.	9.9	11.3	7.0	6.5	7.4
Congenital debility &	Total.	91	116	189	143	539 .
Birth.	Ratio.	73.1	65.6	9.8		26.3
Premature	Total.	1.11012	674	231	:	1917
pas Diarrhoea.	Ratio.	11	3.5	10.1	15.3	9.1
Dysentery	Total.	16	36	272	336	099
Fevers.	Ratio.	9.0	6.0	3.5	5.4	3.0
Other	Total.	6	10	85	118	222
***************************************	Ratio.	o lees	nasi		0.02	0.01
Malaria.	Total.		egoin.	-	-	-
- TOO TOO TOO TOO	Ratio.	:	ski is		0.02	0.01
Measles.	Total.	:		:	-	1
Small-pox.	Ratio.	:	- :	:	0.05	0.01
. Ilomb	Total.	:	:	:	-	-
		:	:	::	.:	
Age-periods.		Under seven days	Seven days and under one month	One month and under six months	Six months and under one year	Total

STATEMENT No. I.

APPENDIX

Showing particulars of vaccination performed in each division during 1943.

VACCINATION.

Samuel.	snoisive.	100		5 Korukupet 6 Harbour 7 Muthialpet		12 Sowearpet Sowearpet					25 Chintadripet		200		35 Mirsahibpet 36 Royapettah	10000	10 Adyar
	Names of Divisions.	10 SE	rmenpet		ir Koil	1,01		38,			ot a second	ights	kkam m		The Street	inagar-	
	isions.	181 8		1,130				49,									
		4 180 4	E1 (883														
ult-	Dell'ite	121 4	a idet	111	1880,3		Tal.	1111	1,1		11	111	111	i i i	o (d	i i	::
Total No. of	Vac	Males.	1584	2006 2931 386	748	1297	2025 1374 1239	1873	3398	1816	1312	1727	1299	2886 855 3550	3726	1787	1742
of persons	coinated.	Females.	1192	2187 2631 1074	1096	954	1561 1438 1178	2049	3580	1477	1269	1101	1121	774	2596	1376	1671
suc		Total	9776 3226 3155	1193 2060 2060	2275	2061	3586 2812 2417	3922	3254	3293	2289	2828	2324	1629	1629	3041	3413
	T	Males.		243	0.00			-	1200							100	
4	Total.	Females. Total.		574 1168 574 1168 527 470				-	-	1							
Primary		Under one	-	98 624 588 716 50 340	No.			1								1	
Vaccination		One year and	1000	376	W16.	10	1 000	1020	10.8.0	100	-4		William	ROTE	BOY	7 8	
ation.	Successful.	years, 5 years and above	200	OR V	0 0	12	250	89	189	ST.				-	-	1 3	F
12	ul.	Total.	367 522 799	1168	519 519	273	6623	1100	1001	5000	577	376	595	492	1345	832	563
		Unknown.	1000	17,-	CHEC	70	1000	1000	-	-	-		-	2000	100 3	00000	-
		Males.	-	1495 14 2337 20 743	2000												-
Ra-vancination	No. vac	Fomales.		1689 3184 2057 4394 847 1590		1000		-			100		-	2240100			
ination	unation.	Total.	1000	10.	7200	200	1	200	-				1175	-101	200		
	ramed	Unknown.	13.16 8	125 768 207 1157 55 491	PEG		-	-	-	100	-	-	0.1000	******	-	- 69	
of s	whi were	Primary.	1	10001			100000	1000	123		0000	100					
Success cases in	which the results	Revacci-	-	20000	2772 h	PAOT			1600	-		- 22	-	-	-	34	

MEDICAL RELIEF.

AL RELIEF. STATEMENT No. I. Showing cases treated in Corporation Dispensaries in 1943.

100	Snowing cases treated in Corporation Dispensaries in 1943,											
Serial Number.	Name of Dispensary		ear in which the Dispensary was opened.	New cases.	Total No	o. of cases	No. of	Operations performed.	ks.			
Serial		-	Year Disp	77 453	1943	-1942	1943 1942		Remarks.			
1	Royapuram Dispens	OFT	1924	25,572	89,745	91,088	144	226				
2	Washermanpet	"	1913	61,674	1,35,635		528					
3	Harbour	,,	1929	58,124	1,33,930	1,18,868	416	257	1 1 1 1			
5	Mannady) Unani Mafuskhan		1938 1923	21,627 39,542	56,413 87,125		34 84					
6	Mint Street	,.	1923	51,786	1,10,985	1,05,049	55	143				
7	Trevelyan Basin	"	1919	55,621	1,05,755	90,159	457	293				
8	Perambur	.,	1928	26,958	54,161	59,532	347	374				
9	Vyasarpady		1929	28,966	59,572	65,190	446	446				
10	Kosapet	"	1929	35,107	69,352	68,460	982	786	1			
11	Baliah Naidu	"	1899	41,044	72,688	76,798	328	477	3			
12	Kilpauk	.,	1919	33,371	69,911	58,060	166	125	Jaio			
13	Nungambakkam	"	1923	24,396	52,230	CARDEN.	45	73				
14	Chintadripet	"	1909	47,481	84,747	98,258	153	202				
15	Pudupakkam	"	1924	33,873	87,640	-	257	-				
16	Triplicane	"	1918	44,655	98,079	71,264		126				
17	Teynampet	"	1927	25,298	58,071	56,193	165	134				
18	Thyagarayanagar	,,	1922	33,968	79,217	58,492	289	221	Shifted from Puli-			
19	Mylapore		1924	39,478	84,988	66,976	664	421	anthope			
20	Pulianthope Unani	,,	1930	36,986	1,04,929	73,289	154	185				
21	Coolai-Siddha		1931	49,487	1,16,865	1,13,169	179	183				
	Thousandlights Ayurvedic	,,	1930	24,929	46,221	39,174	296	189				
	Thayar Sahib Street Unani	,,	1932	38,268	1,02,350		48	37				
24	Egmore	"	1923	26,761	62,188	45,782	145	92	Shifted from			
25 26	Perambur Siddha Krishnampet	"	1938 1938	30,724 21,994	65,415 54,252	70,837 53,115	43 180	58 377	Mannady			
27	Pudupet-Unani	,,	1939	30,551	95,246	51,479	139	85				
200	TORING AND	277	man	RARRE	-		-		DIAMIONE			

Showing the number of cases admitted, discharged and died under various diseases in 1943 in the Infectious Diseases Hospital, Tondiarpet.

STATEMENT No. II.

· · · · · · · · · · · · · · · · · · ·		ENDIA					
Total.	224	2483	1950	658	24%		66
Other	18	140	83	69	. 43%		9
Malaria Clinical	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	6	·	The median		1
Pneumonia		14	10	4	29%	Dona	:
Secondary Syphilis.	posed	=	11	1			:
Dysentery.	B 8834	33	22	11	33%		:
Diphtheria.	t Fath	9	9	critical and a second	:		:
Meningitis.	THE STATE OF	2	1	3	%09		1
Whooping Cough.	25.25	4	4				170
	350-1	10	10		:		: 3
Gastro Enteritis.	87	426	369	132	797		12
Сројета.	116	1113	748	423	34.4%	Boy	28
Measles.	18381R	133	124	3	2%		9
Chicken pox.	ziter je	505	493				12
Small-pox.	8	77	09	13	17%		4
Details	Patients remaining at the hospital on 31st Dec. 1942 midnight	Patients admitted for treatment from 1st Jan. 1943 to 31st Dec. 1943.	Total number discharged	Total number died	Mortality percentage	Patients remaining in the	night

345 cases were admitted and treated at the Krishnampet Isolation Hospital opened temporarily from 2-1-1943.

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	т	Ю.	161	TAT :	\mathbf{r}	IX
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	Ветатка.														
No. I.		Total of ntrants & regulars.	ntage.	Регсе	6.46	13.01	1.98	98.0	0.04	0.35					
ENT		Total entrants	o. ctive.	Defe	806	1623	247	107	00	40	110	31	2665	258	17
STATEMENT		irs.	ntage.	1942-43	3.51	15.45	2.79	1.51	20.0	0.30	0.62	0.53	13.12	3.29	0.30
	Girls.	Regulars	Percentage	1943-44					0.19				- 70		0.16
3:11	G	1700	o. ctive.		494	1009	150	26	9	26	56	19	1558	147	ii.
		ts.	ntage.	1942-43	1.49	12.32	2.50	1.12	0.13	0.04	1.06	0.39	13.51	3.26	0.13
- 1		Entrants.	Percentage	1943-44	5.93	11 19	1.77	0.26	20.0			0.22			200
1			o, ctive.		312 292	614	97	31	7	14	54	12	1107	111	9
		Total of entrants & regulars.	ntage.	Perce	26.52										0.11
1943-44		ent reg	o, otive.	N	3421	1085	298	93	20	22.80	180	308	3118	583	1000
194		rs.	ıtage.	1942-43	13.85	11.61	2.24	1.19	0.50 50	0.83	1.02	25.33	17.26	4.58	0.56
100	Boys.	Regulars.	Percentage	1943-44	23.44	8.58	2.15	0.80	0.08	0.02	1.12	2.48	24.99	4.14	0.10
63	Bo	34.	o. otive.	17	1462	535	134	202	° II	36	202	155	1559	258	9
0		ts.	ntage.	N 6 1943-44 1942-43	31.66	12.40	2:10	06-0	0.17	1.19	2.09	3-03	17.86	5-33	0.37
300		Entrants.	Perce	1943-44	29-24		2.45	0.64	0.13	0.54	164	2.28	23-27	1.04	0.12
	2 8		o. ctive	N Defe	1959	550	.164	-	0	36	110		1559	328	000
MEDICAL INSPECTION.	of an articular or distribution	Mortigità bottespelle	Defects,	Joint Diluper graphents	ly & nails	Nose & throat	Eye diseases	Ear diseases	Hearing	Circulatory system	Respiratory system		Infectious & contagious diseases 1559		Deformities
ME			No.		100	0 4		-	00,	21	12	77	16	17	19

APPENDIX TO STATEMENT No. I

VI WK TY	No. or	Roll.	Average daily attendance.		No examined.		No defective.		Percentage.	
Group.	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Entrants Regulars	16,165	16,318	12,485	11,818	6,700 6,238	The same of		2,318 3,315	63-27 57-89	
Total .	. 16,165	16,318	12,485	11,818	12,938	12,475	7,850	5,633	60.67	45.15

MEDICAL INSPECTION.

STATEMENT No. II.

			Treatn	nent Tabl	0.			
Group.	No. sent to Corpora- tion Dispensaries.	No. referred to Gov- ernment Hospitals.	No.referred to Ophthalmic Hospitals and eye sections of other Hospitals.	No. referred to Tuber- culosis Institute and Sanatorium.	No. of parents met.	No. of revisits paid to schools.	No. of re-examina- tion of children.	Remarks.
Boys	5,704	1,515	61	1	1,392	75	3,247	
Girls	4,775	502	32	1	1,376	112	4,149	
Total	10,479	2,017	93	2	2,768	187	7,396	

MEDICAL INSPECTION.

h-8

STATEMENT No. III.

Height and Weight Table												
-	Во	oys	Gi	rls	averag	quennial ge height nches.	averag	quennial e weight ounds.				
Age	Average height in inches.	height in inches. Average weight in pounds.		Average weight in pounds.	Boys	Girls	Boys	Girls	Remsrks			
5 years.	41.75	31.35	38.94	27.41	40.57	39.30	32.02	30.19				
	41.34	33.47	41.16	29.92	41.45	41.23	33.78	31.93				
6 ,,. 7 ,, 8 ,, 9 ,,	42.94	36.02	42.94	32.76	43.18	42.93	36.68	34.59	1			
8 ,,	44.93	37.78	44.81	35.83	45.18	45.13	39'51	38.29				
9 ,,	47.03	42.75	46.65	39.78	47.32	46.92	43.65	42.23				
10 ,,	48.70	45.08	48.95	44.08	49:23	49.26	46.88	46:65				
11 ,,	50.14	48.51	51.04	50.51	50.93	51.14	50.34	52:15				
12 ,,	51.92	51.63	52.56	53.24	52.45	52.92	55.18	56.11				
13 ,,	52.56	55.62	54.54	59.15	53.54	55.00	57.74	61.42				
14 ,,	53.88	61.57	56.35	66.33	55.31	56.79	62.60	69.87				
15 ,,	55.54	6I·12	58.85	74.65	57.03	57.68	67.59	70.82	11-10			
16 ,,	57.32	70.27	60.11	80.75		Stratigieter	(6)**	***				
17 ,,	58.61	72.08	58.88	88.75		6.0010073	000	111				
18 ,,	62.41	87.18	59.84	98.02	***	****		***				
19 ,,	61.36	86.11	61.00	80.00		********	13:00	Karenty al				
20 ,,	63.82	92.71	****		****	*** 40	***	Senjust.				
21 ,.	62.75	91.50				•••	***					
22 ,,	65.00	102.00	~0.00	00:00								
23 "	***		59.00	80.00				***				
24 ,,			58.00	80.00	***	***	***	***	-			

MEDICAL INSPECTION.

STATEMENT No. IV.

Following-up work done showing the results of medical advice, 1943-44.

Systems or Organs.	Diseases.	Operations performed after medical advice	No. of cases cured after treatment.	No. of cases improved and treatment continued.	No. of cases not improved but treatment continued.	Remarks.
1	Malnutrition	00000	155	1175	607	
2 Teeth & Mouth	Dirty teeth Dental caries	100		. 7	3 22	
	Gum boil	4				
4 1 1 3 1 1	Stomatitis		521	380	412	
	Glossitis					
	Tongue tie					
3 Nose & Throat.	Nasal catarrh and Rhinitis Enlarged tonsils	§	163	140	53	
	and adenoids Englarged cervical	50	68	356	654	
	glands		36	15	50	
	Granular pharynx.				4	
	Nasal polypus					
1 91	Elongated uvula Other conditions		2		2	
	Conjunctivitis Xerosis Stye	2	98 15 12	11	59	lajoT
	Granular lids				22	
	Blepharitis				5	
	Staphyloma	***				
	Dacryo-cystitis					
	Corneal opacity				8	
	Keratitis					
	Squint Other conditions	***	1		1	
	Other conditions		1			
5 Defective Vision.		1				
6 Ear Diseases.	Otitis		13	10	17	
	Otorrhoea		23	16	30 .	
	Wax ear		6			
	Defective hearing.					
	Anaemia		5	17	21	
System.	Functional diseases		1	1	8	TO THE
	Organic diseases Other conditions				14	
1 1 1 1 1 1 1 1 1	en des des		1			
8 Tuberculosis.	Pulumonary	34-23-19	1886	2 17 14	WET !	
	(a) Definite	***			,	
I seguidite	(b) Suspected Other forms			1	1 5	
	101110		110	11:18		
	Bronchitis Asthma		168	34 2	15	

MEDICAL INSPECTION.

STATEMENT No. IV. (Contd.)

Following-up work done showing the results of medical advice, 1943-44. performed after medical advice. No. of cases improved and treatment continued. No. of cases not improved but treatment continued. No. of cases cured after treatment. Operations Remarks Systems or Diseases. Organs. 10 Abdominal Enlarged spleen Organs. liver liver and spleen 2 ... Diarrhoea Dysentery 7 Dyspepsia 6 2 ... Chronic constipation Jaundice ... Hydrocele ... Inguinal hernia ... Umbilical hernia... 3 11 Intestinal colic Generative disorders in girls 11 Bones and Rickety chest and 62 Joints. general rickets... 30 122 Fracture Sprains and dislocations Diseases 2 12 Infectious and Scabies 1898 777 802 Shows the cases dis-tributed in the year ... contagious diseases. 58 Eczema 129 47 ... Tinca, fungus and ringworm 77 48 23 2* Leprosy 34 212 *Arrested 104 indifferent. Lichen 16 24 36 Pruritis 18 42 ... 11 Urticaria ... Psoriasis 4 ... Dermatitis 6 3 Impetigo 14 14 ... Hookworm 1 Mumps 1 ... 4 Whooping cough... 1 ... Influenza Conjenital syphilis. Facial paralysis 13 Nervous and Psychic Incontinence of Systems urine Epilepsy

MEDICAL INSPECTION.

STATEMENT No. IV. (Contd.)

Following-up work done showing the results of medical advice, 1943-44.

No.	Systems or Organs.	Diseases.	Operations performed after medical advice	No of cases cured after treatment.	No. of cases improved and treatment continued.	No. of cases not improved but treatment continued.	Remarks.
14	Other Diseases and Defects.	Worms Wounds, cuts,		122	1	lant.	10 Abdon
		ulcers, etc		144	19	11	
		Boils and abscesses.	2	27			
133	1 1 1 1 1 1	Pyrexia		38	Testing C	***	
	200	Phimosis Undescended testis.	30		in the said		
		Leucodermic	***	*filent	Dogge of		
	The last of	patches	***	W	HOURS.		
	100	Burns and scalds	***	5	a strainte		
	100	Whitlow		1	100000000000000000000000000000000000000		
		Xero-derma		Balling of	-	14	
	277.39	Enlarged groin	100	Siles			1 100
	1111	glands		***		1	
3		Warts		attin m	1000		
		Dog-bite		1			
		Tumours		na 'thank	THIS IS	··· bas	
	201	Hyperidrosis Cellulitis		.stettoin	Anattoni j	2	
	The state of the s	Other conditions		ïı	CHARGON !	- 10-13	
		o shor containings		- 82 10 24	The state of the s	-	

WATER ANALYSIS.

STATEMENT No. I.

Showing the examination of water samples during 1943.

Serial No.	Description.	Number of samples examined.	Remarks.
1	Complete bacteriological and chemical examination	1,027	
2	Partial bacteriological and chemical examination	344	
3	Microscopical examination of water from different places in the water supply system	60	
4	Identification of Algae	66	
5	Culture media, etc., for determination and adjustment of P. H.	36	
6	Samples of water tested for the presence of free chlorine, interfering substances, etc.	9,814	
7	Examination for the presence of H2S in filtered water	3,060	
	Total	14,407	

STATEMENT No. II.

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	A	PPI	CN	D)	IX	1										
Average No. of beds per day during	the month.		8	00	8	200	8	. 6	6	6	6	8	6	6.		
J.	P.		3	0	0	0	0	0	0	9	6	6	6	3		
ost c		2 50	12	9	1	00	0	15	0	14	10	2	14	3		
otal cost chlorine	A.		6,	33	6	25	00	0	00	68	110	0	25	8		
Total cost of	Rs.		3679	340	422	416	436	418	423	508	436	529	445	431		
	P.	1	3	9	0	0	0	0	0	0	0	0	0	0	-	-
Cost of chlorine per lb.	Rs. A. P.	1300	6	6	10	10	10	10	10	11	11	H	11	11		
D b b	Rs.	13.7	0	0	0	0	0	0	0	0	0	0	0	0	A PART	
of ne			9	00	20	00.	00	.50	9	.20	.25	.52	-32	.75		
Lbs. of chlorine	used.		6365.00	5732.00	02.9929	00.0999	00 9469	6705.50	6768-00	7403.50	344	695	6484.25	273		
Hd			9	5	9	9	9	9	9	-	9	2	9	9	ed a ri	
nie	Mean.		3	0	0	80	80	33	74	01	96	11	74	60		THE REAL PROPERTY.
rine	Me		1.13	-	=	i	ï	-	-	Ξ	0	1.4	1.	0		
of chlo	Min.		1.06	33	33	02	10	37	66	00	33	00	31	00		
Dose of chlorine in p. p. m.	N		1	i	-	i	i	0	0	=	0	-	0	0	2011 15	9
eso	ax.		1.50	91	91	12	14	80	60	38	00	16	39	20		
A	Mean. Max.		H	-	-	-	i	-	-	-	H	93	H	-	1010	
lion iy.	ean		18.07	8.62	9.46	0.45	0.83	1-77	1.65	1.50	1.95	8.08	20.31	0.48		
uantity of water ltered in million gallons per day.			-	-	-	-			-	-	-	-		-	-	-
0 0	Min.		16.50	99.4	99.8	99.6	9.32	1.32	99.0	99.0	1.32	4.00	8.00	99.6		
ntit ed lons			1000	-	110.00	R.H.						700	-		-	1
Quantity filtered in gallons p	Max.		20.00	0.00	99.0	00.T	2.00	2.85	2.66	2.85	39.8	2.66	21.50	1.66		
			6%	G.S.	6.5	25	24	64	G.S.	64	C.S	CA5	CX	64	old a	
wat for	sub ses.		63	6	63	10	1	63	00	0	0	0	0	4		
No. of sam- les of wate tested for free chlorin	fering sub- stances.	- 3	723	67	75	73	8	89	81	91	95	63	93	90		
No. of sam- ples of water tested for free chlorine	fer															
			:	:	::	:	::	***	:	:	:	:	:	:		
1919																
th.			-													
Month.			-	Y							ler		er	er		
			lar	ruar	ch	-	-	(5)		ust	emb	October	emb	qua		
			January	February	March	Apri	May	Tune	July	August	Sept	Octo	November	December		
h-9						4				4	32)	1	I		

SANITATION.

STATEMENT No. I.

Statement showing the areas sewered and yet to be sewered.

Name of A	Length of Sewers in ft. laid during.	Length of Sewers in ft. laid up to 31-12-43.	Percentage of Sewered portion up to 31-12-43.	Percentage yet to be laid.	Remarks.
1 Royapuram 2 Tondiarpet 3 Washermanpe 4 Korrkkupet 5 Harbour 6 Muthialpet 7 Katchaleeswa 8 Kothawal Baz 9 Ammen Kovil 10 Seven Wells 11 Sowcarpet 12 Peddu Naicke 13 Trevelyan Ba 14 Esplanade 15 Park Town 16 Perambur 17 Choolai 18 Purasawalkan 19 Vepery 20 Egmore 21 Kilpauk Nungambakk 22 Nungambakk 23 Chintadripet 24 Thiruvateesw 25 Chepauk 26 Triplicane 27 Amir Mahal 28 Mirsahibpe t 29 Royapettah 30 Mylapore	et	48,127 47,646 59,460 35,034 30,771 27,001 35,920 23,345 27,687 29,305 18,492 33,171 32,171 10,586 21,534 52,028 51,331 55,171 50,430 1,03,176 84,224 1,32,783 42,392 56,379 22,506 33,398 29,899 1,03,804 1,78,717 1,23,495	93 86 98 75 94 97 92 100 100 100 100 100 99 97 90 95 73 77 99½ 94¼ 99¼ 91 91 91 94 96¾ 95 95 95 95 95 95 95 95 95 96¾ 97 99 90 91 91 91 91 91 91 91 91 91 91	7 14 2 25 6 3 8 10 5 27 23 10 5 4 7 8 10 9 9 6 10	

SANITATION.

STATEMENT No. II.

No.	Description.	No. of cases dealt with.	No. Sanctioned	No. Refused.	No. Pending.	Remarks.
1	Aerated-water facto-	24	22	2		
2	Bakery, Sweet-meat &	856	609	247		
3	Coffee Hotel Candles and Soaps	25	21	4	***	
4	Cocoanut fibre, Hemp,	~0	No main	I in the		
	Jute	17	13	4	•••	
5	Cattle yards	1702	1609	93		
0	Bones, Hoofs, Hairs, Wool	21	19	2		
7	Cart stands	24	22	2 2 6		
8	Dairy produce	422	416			
9	Flour	137	133	4		
10 11	Gilding & Condiment Hack stables	200 26	176 22	24		
12	Dyeing	49	39	10		
13	Onions and Garlic	69	69			The state of
14	Oil and Oil mills	482	476	6		
15 16	Lodging houses	57	57			
17	Markets Meat	41 150	35 138	12		
18	Spirits, Turpentine,	100	100	12		
-	Chemicals & Resin	175	162	13		
19	Laundries	65	62	3		
20 21	Fish and Firs Skins, Hides & Leather	16 192	16 178	14		-
22	Paddy boiling	8	7	1		
23	Sugar	23	21	2		
24	Catgut, Offal, Tallow	10	10			
25 26	Snuff Cotton	145	137	8		
27	Eating houses	46 1925	45 1805	120		
28	Swine	1000	1000	120		
29	Lime kiln	38	37	1		
30	Beedi manufacturing	291	289	2		
31	Manufacturing cigar, cigarettes and					
	tobacco	86	84	2		
32	Camphor storing and	00	-	-		113
33	boiling	25	24	1		
33	Shaving Saloons Hasking of paddy	854	848	6	•••	14 1 52
35	Groundnut storing	9 42	9 41			81
36	Grains storing	125	125			1 R 1 1 4
37	Gold refining	11	11			211
38	Poultry	9	9			
	Total,	8,397	7,796	601		8

STATEMENT No. I.

APPENDIX

FOOD ANALYSIS.

1942	Percentage of adulterated samples.	27·1 21·9 28·3 4·8 16·3 16·3 44·4 	20-7
T.	Number of sam- ples analysed.	365 123 520 420 98 129 45 9	1,755
1941	Percentage of adulterated sam- ples.	30.4 34.1 39.3 7.8 100.0 2.1 37.5 36.4	24.3
1	Number of samples analysed.	283 94 706 657 153 153 8 8 8	1,990
40	Percentage of adulterated sam-	31.1 44.1 48.3 6.5 21.5 9.3 	31.0
1940	Number of sam- ples analysed,	288 102 773 511 93 1 43 37 23	1,871
6	Percentage of adulterated sam- ples,	36.4 26.2 37.0 20.0 41.9 25.0	30.1
1939	Number of sam- ples analysed.	107 65 573 395 43 118 119 119	1,246
	Percentage of sdulterated samples	32.8 17.8 40.1 11.4 42.6 	30.4
1938	Number of sam- ples analysed.	110 127 134 134 134 135 136 137 137 137 137 137 137 137 137 137 137	1,451
	Percentage of adulterated samples.	46.8 31.2 24.3 2.1 2.1 19.3 36.1 63.2	22.7
1943	Number of adul- terated samples.	178 59 171 9 171 16 16 12 12	467
	Number of sam- ples analysed.	380 189 189 116 116 189 189 189 189 189 189 189 189 189	2,060
	6 100	11111111111	:
101	samples.		Total
	Nature of samples.	oil ut oil oil weder stitutes ticles	L
	Natu	Milk Butter Shee Fingelly oil Froundnut oil Cocoanut oil Coffee Powder Fea Shee Substitutes Other Articles	

APPENDIX

iction	Average fine per conv in 1942.	Rs. 30	88	29	45	22	16	2	20	:	33
.2461	Total fines imposed in 1942.				290	350	95	200	40		5180
ui st	Number of conviction	67	24	21	13	15	122	-	:03	:	158
2/19/47	A SHARE WAY	Rs.	47	87	44	:		2		40	55
.8491	Total fines imposed in	Rs. 6763	1687	3580	355		: 4	700	365	200	13105
era- th	Number pending dis- posal on 31-12-1943.	57	6	25	-	:	: 0	,	.6	4	108
f adult ealt wi 943.	Number taken under Section 14, but acquitted, withdrawn or not	10	20	9	2		:6	2	:-	3	44.
les ing	Number seized under Section 9 and forfeited or destroyed under Section 12 without prosecution.			109			:	-		:	123
al nu d sar	Number of convictions.	136	36	41	00	::	:	-	:9	5	239
Tot	Number of samples.	903	65	181	=	:	101	CT	- 23	12	514
of ding	Number pending dis- posal on 31-12-1943.	14	:	7	:	:	:		: :	:	21
samples ear pen 1-1-194	Number taken under Section 14, but acquitted, withdrawn or not prosecuted.						::		: :	:	:
us y	Number Seized under Section 9 and forfeited or destroyed under Section 12 without prosecution.		: :				:	:	: :	:	:
pre	Number of convictions.	=	9		63		:0	0	:-	:	36
the	Number of samples.	26	9	10	63	:	:0	0	:-	:	47
55 m	Number pending dis- posal on 31-12-1943.	43	6	18	-	:	:0	0	:6	4	87
samples 1 1943.	Number taken under Section 14, but acquitted, withdrawn or not prosecuted.	9	20	9	63		:0	3		3	44
Adulterated sample among the sample analysed in 1943	Number seized under Section 9 and forfelted or destroyed under forfelted without prosecution.		: :	109	:		:	•		:	123
Adul	Number of convictions.	19.5	30	38	9	:	:	*	:20	5	213
	Number of samples.	178	59	171	6	::	16	PT	55	12	467
	Nature of samples.	Gille	Butter	Ghee	Fingelly Oil	ıt Oil	Cocoanut Oil	Ighwa I gama	Thee Substitutes	Other Articles	Total

STATEMENT No. II.

FOOD ANALYSIS.

		Avorage fine, per convi	
	5: 55 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
	# # # # # # # # # # # # # # # # # # #		
	7 7 7 7 7		
		1912.	
	: MERNACHES	Aumour of conviction	
		in 1943;	
		Average fine per convi-	
	98 98 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		1843
		possi on 31-12-1943.	
		Number pending dis-	3.6
1 5	0-101 10000	but a market, withdrawn or con-	440
		Partier being under Sension 14,	
			100
	1 7 7 1 2		
	HILL BELGER		144
		Bernings of samples.	
-			
	-		MAIS.
		Des ar to hear, with trains or not	
		The last of the line of the last line	力总是
			2 3 3 5
	£ 4: -0: 1000 -		
		and the second state of	
		Number of samueles	
		Posta on 31-12-1945,	
		Number panamagais.	
1			
	1 1 1 1 1 1 1 1 1 1 1 1		
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100			
1	S.S. PEROL		
	E 0 10 1 1 1		
		Agment to orotality	2 22 1
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	OSHOODOOMS		

