## Contributors

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# CORPORATION OF MADRAS



## ANNUAL REPORT

OF

## THE HEALTH OFFICER

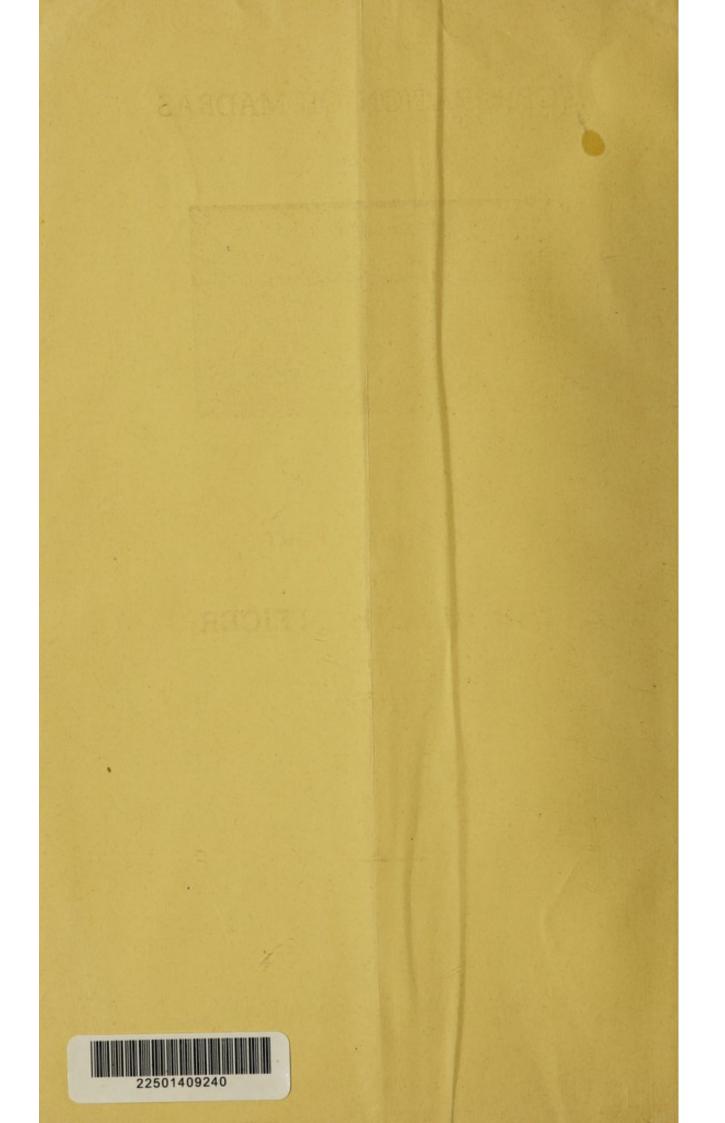
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1957

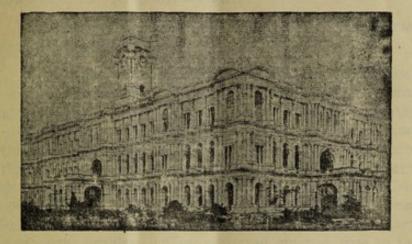


PRESENTED BY

DR. B. V. SUNDARABABU, M.B., B.S., D.P.H. (CAL.) HEALTH OFFICER CORPORATION OF MADRAS



# CORPORATION OF MADRAS



RIPON BUILDINGS

## ANNUAL REPORT

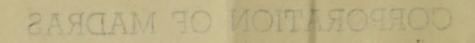
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1957

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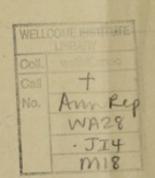


ANNUAL REPORT

THE HEALTH OFFICER

FOR

1967



PROTECT IN SUNDAY DE PRESS, MADRAS-6.

Worshipful Mayor, Deputy Mayor, Aldermen and the Honourable Members of the Council!

It is with great pleasure I place before you, the Annual Report of the Health Officer for the year 1957.

Dr. B. V. Sundarababu continued to be the Health Officer and was assisted by Dr. P. V. Balakrishna Marar, Dr. A. Ramachandra Rao, Dr. I. Gopalakrishnan, Dr. N. Dakshinamoorthy and the Lady Superintendent of the Child Welfare Scheme, Dr. (Miss) C. N. Rukmani. It is gratifying to note that inspite of the three severe epidemics of Small-pox, Influenza and Cholera, which they had to face this year, the death rate for the City rose only by 1.01 per mille. The way they tackled the Influenza epidemic requires special mention. At a very short notice, they had to face the problem. They mustered up and rose to the occasion. The Health Department of the City not only earned the gratitude of the citizens of the City of Madras, but also the appreciation of all the other States. They had an uphill task in combating the Cholera epidemic which broke out immediately after the Influenza epidemic and they acquitted themselves creditably in their work. The Infantile Mortality Rate, which is recognised by the International Health Authorities as the index of the general health of a city, and also the Maternal Mortality Rate are the lowest ever recorded in the City. This is indirectly the index of the great efforts taken by the health staff to attain a high standard of City's health. Yet a lot more has to be done and I hope that the Health Officer and the assistants and the staff of the Health Department will strive their best to see that the City of Madras is made one of the healthiest Cities by all standards.

I hearby record my appreciation of the good work done by Dr. B. V. Sundarababu, the Health Officer, his assistants and the health staff during this year and place this Annual Report of the Health Officer before the Honourable Council.

# Madras, ]

#### D. BALASUNDARAM,

Commissioner.

## CORPORATION OF MADRAS

## Worshipiut Mixlor Deputy Mayar Aldernen and the Honourable Members of the Genucit on 1157

It is with great pleasered, place baffere you, the Annual Report of the Health Officer for the year 1957.

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Madras,

19-1-59

D. BALASUNDARAM,

Asick Vinari

Stadis, Play Grounds and Parks

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#### INTRODUCTION

In presenting the Annual Report on the Health of the City of Madras for the year 1957, I wish to place before the House some of its principal contents, to comment briefly on matters of interest which have special bearing on the Health and Welfare of the population, and to indicate the various aspects of this Department in particular, where there has been development of progress during the year under review.

#### POPULATION

The population, as estimated for the mid-year 1957 by the Director General of Health Services, was 17,58,607, recording an increase of 54,087 inhabitants or 3.17 per cent over the corresponding figure of 17,04,520 for the preceding year 1956.

The population for the year calculated by the method of Natural Increase, i.e., excess of births over deaths, is 15,67,802, recording a nett increase of 32,414.

## BIRTHS

A total of 69,197 births were recorded during this year under review with a rate of 39.35 per mille of estimated mid-year population as against 64,476 and 39.39 per mille respectively in the preceding year.

## neito bas gaiveras . L.G. C and DEATHS

The number of deaths registered during the year 1957 were 39,783 with a rate of 20.91 per mille as against 38,927 and 19.90 per mille respectively in 1956.

The rates of births and deaths, referred to for discussion in the body of the report, are based both on the estimated mid-year population and also on the population, calculated on the Natural Increase Method.

#### INFANTILE MORTALITY

The rate of 139.71 deaths for every 1,000 live births during the year among the infants under one year is the lowest ever recorded in the history of this City and this is a good index of the improved general sanitation of the City.

#### ENDEMIC AND EPIDEMIC DISEASES

The year had been unique in the respect that the City had to face three diseases in epidemic form.

Throughout the year the Small-pox was prevalent, recording a total attack of 1,720 of which 365 proved fatal, with a fatality rate of 21.22 per cent of the total notified cases of Small-pox.

For the first time in several years, the City had an epidemic of Influenza, imported from the Far East. Though this "Epidemic Influenza" was declared a 'notified disease' the notification of the occurances of "Epidemic Influenza" by the private medical practitioners was quite discouraging. However, the seven-week epidemic of 'Asian 'Flu,' which was estimated to have affected more than five lakhs of the population, was brought under effective control by the streneous field work of the divisional staff. We had to face the problem with such a short notice as even less than 24 hours as the epidemic has actually occurred simultaneously with the arrival of an infected steamer. The Corporation Dispensaries were not able to cope up with the work and we had run several mobile dispensaries and treated the patients in their own houses and we are proud to say that we earned appreciation from all over the Country.

In this connection, I must admit that we are very grateful to the State Government and especially the Director of Medical Services for the great assistance they have rendered in lending the Medical and Nursing personnel to man several of the mobile dispensaries.

The Epidemic Influenza was closely followed by an epidemic of Cholera, recording a toll of 381 deaths with a fatality rate of 18.67 per cent of the total attacks of 2,041. As in 1953, we put into action, a mobile saline transfusion van and administered the life-saving Intra-Venus Saline Transfusion at the houses in collapsed cases even before the removal of cases thus saving several patients, who would have otherwise died even during the transit.

Deaths due to Malaria and other insect-borne diseases were on an appreciable decline, mainly on account of the D.D.T. spraying and other control measures adopted by the Malaria Staff and the staff of National Malaria Control Programme.

#### VACCINATIONS AND INOCULATIONS

Special staff were engaged for mass vaccination against Small-pox and inoculation against Cholera during the epidemics, apart from the systematic street by street preventive inoculations and vaccinations done by the divisional staff.

7,215 certificates of Vaccinations against Small-pox and Inoculations against Cholera were issued for the purpose of International travel free of cost.

#### MEDICAL RELIEF

There was an appreciable development in the expansion of Medical Relief by the opening of three more allopathic dispensaries at Sanjeevirayanpet, Basin Bridge and Kottur-Adyar. Credit must be given to the Dispensaries, Mobile Medical Units, Maternity and Child Welfare Centres and the divisional public health staff for the way in which they had continued their work in the most difficult circumstances during the seven-week epidemic of imported Asian 'Flu.

More attention could not be paid to the Medical Inspection in the Corporation Schools since the medical inspection staff had to be diverted to the epidemic work on and off throughout the year. The other Special Clinics for Leprosy and Skin Diseases, Veneral Diseases and Tuberculosis maintained their standard of service to the population satisfactorily.

#### LABORATORY SERVICES

The three Laboratories, viz. Pathologist, Public Analyst and Water Analyst, continued to do good service to the public. Especially the Public Health Laboratory is earning more and more appreciation of the public for its accuracy in their investigations and it is gratifying to note that more and more public are availing of this amenity provided by the Corporation of Madras.

#### CARE OF THE MOTHER AND THE CHILDREN

There has been an appreciable progress in the Maternity and Child Welfare Services to the population during this year and the catering of skilled assistance to women during ante-natal and post-natal and also during the confinements. This is the main cause of the reduced Maternal and Infantile Mortality Rates of 2.08 and 139.71 respectively which are the lowest on record in the History of the City.

As regards the routine Serological Examination of Blood of pregnant women for syphilis, the provision for this service in the City is quite inadequate as only 15 Centres have these facilities. The treatment of all the positive cases, have played an important role in the reduction of congenital abnormalities in the newborns. If great emphasis is placed on the education of the expectant mothers and the above services are made available in all the Maternity and Child Welfare Centres of the Corporation, there will be every scope of reducing the Maternal and Infantile deaths to a commendable minimum.

#### FAMILY PLANNING

The six full-time and four part-time Family Planning Clinics, run by the Corporation so far, were discontinued on and from 30-10-1957, when the Government-sponsored "Family Planning Intensive Scheme for the Madras City" was adopted. Under this Pilot Scheme, four Fathers' Information Centres and six Mothers' Information Centres have commenced functioning initially to cater the population in the divisions 37 to 45 and 50A. The services of this Family Planning Scheme is scheduled to be extended stage by stage to the entire population of the City.

#### CARE OF THE AGED AND THE INFIRM

The Special Home for the disabled and the infirm and the Monegar Choultry, where the Corporation maintains 100 beds, were able to accomodate a few of the deserving people. But this does not touch even the fringe of the problem. In all advanced countries care of the aged is one of the essential duties of the Health Department and Geriatrics, the science of the diseases of the old, has become a specialised subject. The aging population have their own problems which duly affect the health of the City and here in Madras we are yet to start such Geriatric Clinics.

### CARE OF THE ANIMALS

The services rendered by the Cattle Depots and the Veterinary Dispensaries continued to be satisfactory. The outstanding event, worth mentioning in the Zoo, is the successful breeding of tigers without any congenital deformities and an addition of Himalayan Pheasants and Game Foul.

#### CONCLUSION

I have the pleasure to place on record my profound gratitude to the day-to-day wise guidance and the continued encouragements accorded to us by the Commissioner, which is a sure indication of his intense interest in the work of this Department and consequently in the Health of the City.

I wish also to express to my assistants and also to all the staff of this Department how deeply I appreciate the spirit and the efficient services they rendered loyally throughout the year.

Madras }

#### B. V. SUNDARABABU, Health Officer.

quite inadequate as only .: Control have there facilities. The treatment of all the positive cases have played an important role in the reduction of congenital abnormalities in the newborns. If great emphasis is placed on the education of the entretant mathers and the above services are made available in all the Materiany and Child Welfore Centres of the Corporation, there will be every scope of reducing the Material and Infantile deaths to a commondable minimum.

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# I. STATISTICAL SUMMARY

Area ni eyeb to tahinga as against the inches in 1957 as against		monthly rati	00.9920 Acres (or) .84 Sq. miles.
Population as per Census of 1951		natult record	14,16,056
Population estimated for the mid-year	1957	Lirst Quarter	17,58,607
Population calculated on the Natura	I Increase	Method	
(excess of births over deaths)		6.29	15,67,802
10.01 25.38 37.63			
Average density per acre		-1:06	53.7
Births excluding Still Births		4.81	69,197
Birth Rate as per estimated mid-year	population	0.10	39.35
<ul> <li>Birth Rate as per population calculate Increase Method (excess of births ov Deaths excluding Still Births</li> <li>Death Rate as per estimated mid-year</li> </ul>	er deaths)	opulation of The mid-ye The area of the area of of the City,	44.3 36,783 20.91
Death Rate as per population calcu Increase Method (excess of births ov		Natural 	22.5
Natural increase		egistration ( nd Death Re	32,414
Still Births			2,650
Still Births per 1,000 births (live and st	till)	nas and Cl	36.88
Infant Deaths		1910 al di ol 2011 al di ol 2011 al di ol 2011 al di ol	9,676
Infant Mortality Rate		it is that	139.71
Maternal Deaths		7 birtits wer	150
Maternal Mortality Rate		president of a market of a mar	

#### **II. METEOROLOGY**

The atmospheric conditions recorded during the year 1957 are furnished in Statistical Supplement No. 1.

Rainfall :-- The total rainfall in inches recorded at the Nungambakkam Observatory during the year was 41.98 as against 45.43 inches in the previous year.

Rain fell on 58 days during the year as against 69 days in 1956. The highest monthly rainfall was 4.38 inches in November 1957 as against 8.37 inches in September 1956.

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total fall in inches
1951	0.16 M	928 5.42	11.76	13.31 Jas	30.65
1952	0.79	16.74	6.49	b 19 18.19 hid	42.21
1953	1.42	0.82	10.01	25.38	37.63
1954	1.06	0.29	18.71	24.28	44.35
1955	4.81	10.17	15.37	21.29	51.64
1956	2.13	6.40	19.20	17.70	45.43
1957	0.20	1.79	14.66	25.33	41.98

#### III. POPULATION

The Population of the City, according to the census of 1951, was 14,16,056. The mid-year population for 1957 was estimated to be 17,58,607. The area of the City was 31,900.9920 acres or 49.84 sq. miles. The average density of population per acre was 53.7. The mid-year population of the City, calculated on natural increase method (excess of births over deaths), works out to 15,67,802. In calculating the births and deaths rates, both the estimated mid-year population as well as population calculated on natural increase method, have been adopted.

#### IV. BIRTHS

Registration of Births and Deaths is compulsory in the City and is done in 31 Registration Centres, spread all over the City, by trained fulltime Birth and Death Registration Clerks under the immediate supervision of five Medical Officers in-charge of ten divisions each. Reports on vital events—both births and deaths—received from the Hospitals, Nursing Homes, etc. are still found to be defective inspite of our repeated requests to furnish correct and full particulars as required in the reports. Nursing Homes and Clinics are increasing in the City day by day. The existance of some of the Nursing Homes and Clinics in the City are not even known to this department, and Vital Events occurring in such Nursing Homes are not promptly and correctly reported, with the result the parties have to suffer when they apply for extracts of such Births and Deaths. It is, therefore, quite necessary that all Nursing Homes and Clinics should be registered by the Corporation so as to have a supervisory control over them.

69,197 births were registered during the year as against 67,476 registered in the previous year. The birth rate calculated on the estimated mid-year population was 39.35 per mille as compared with the rate of 39.59 in 1956 the 'quinquennial average' being 39.38.

The birth rate for the year 1957 based on population calculated by natural increase method was 44.3 per mille as against 44.00 in 1957. As in the previous year, there were more male children born than the females—the proportion being 104.5 : 100.

Quarter	Months	No. of Births	Quarterly Total
increase (+)	January February March	4,366 4,195 5,667	14,228 180 Y
002 01	April May June	6,334 }	18,221
= 17. <b>6</b> 93	July August September	6,067 5,359 5,701	17,127
19, <b>4</b> 14	October November December	6,182 6,047 7,392	19,621
- 26:075	Total	69,197	69,197

The month-war incidence of births during the year was as follows :----

The births among the Principal communities were as follows :---

Communities		No. of Birth	s Registered	Total	
Communities	Communities		Females	Total	
Anglo-Indians		144	107	221	
Aliens	ili	20	20	140 MD	
Indian-Christians		1,694	1,619	3,313	
Hindus		30,628	29,418	60,046	
Muslims		2,881	2,666	5,547	
Others		18	12	. 30	
All Communities		35,355	33,842	69,197	

The birth rate and the number of births recorded in each division in the City is furnished in Statistics Supplement No. 2.

Still-births :--2,650 still births were registered during the year with a rate of 36.88 per 1,000 live and still births against 2,579 and a rate of 36.81 for the previous year showing an increase of 0.07 in the Still Birth Rate.

Statement of Live Births by age of mother and in order of confinement at live births during 1957 is furnished in Statistics Supplement No. 15.

### The birth rate for the SHTAT DEATHS on population calculated

The tolal number of deaths registered during the year 1957 was 36,783 as against 33,927 in 1956, with a death rate of 20.91 and 19.90 respectively—calculated on estimated mid-year population. Birth Rates, calculated on population figures arrived at by natural increase method, was 22.5 against 23.0 of 1956. Due to slight increase in the total number of deaths, the excess of births over deaths, is less in this year than in the previous year. A statement of Births and Deaths, recorded in the City since 1948, is furnished below with special reference to the natural increase :—

	Year	0.00	Births	Deaths		rease (+) ase (—)
	1948		50,222	31,002	+	19.220
	1949		52,362	32,639	+	19,723
	1950		52,619	38,726	+	13,893
	1951		58,961	42,039	+	16,922
	1952		62,921	43,207	Ŧ	19,714
,	1953		54,277	43,753	-	10,524
	1954		59,256	33,181	+	26,075
	1955		66'449	34,264	+	32,185
	1956	1	67,476	33,927	+	33,549
	1957		69,197	36,783	÷	32,414

The maximum of deaths registered during the last quarter of the year and the minimum in the first, as can be seen from the month-war incidence, tabulated hereunder :--

Months	No. of Deaths	Quaterly Total
January February March	2,659 2,750 2.663	8,072
April May June	2,555 2,647 3,899 }	9,101
July August September	3,023 3,155 3,556 }	9,734
October November December	2,974 3,053 3,849	9,876
	January February March April May June July August September October November	January       2,659         February       2,750         March       2.663         April       2,555         May       2,647         June       3,899         July       3,023         August       3,155         September       3,556         October       2,974         November       3,053

The number of deaths registered in each division with death rate is furnished in the Statistics Supplement No. 5.

Deaths amongst the principal communities: The occurrence of deaths community-war is as follows:-

Principal Communities	Males	Females	Total
Aliens	3	2	5
Anglo-Indians	92	92	184
Indian Christians	881	898	1,779
Hindus	15,815	15,176	30,991
Muslims	1,981	1,823	3,804
Others	15	Sever 5 Tayon	20
1.292 2.520	1.208	evers	Other F
All communities	18,787	17,996	36,783

The number of births and deaths, registered with the respective rates among the prinicipal communities in the City during the year, as compared with the previous years, is furnished in the Statistics Supplement No. 11.

Age & Sex-war distribution of deaths: There were more deaths among males than in the females—the figures being 18,787 and 17,996 respectively. The number of deaths were minimum in the age group of 10–14 years and maximum under 1 year. Nearly 26% of the total deaths occurred under 1 year of age and 50% of the total deaths were amongst the children below 4 years. The statement, furnished below, gives the age and sex-war distribution of total deaths.

Age-Group	Males	Females	-ti <b>latoT</b> es being 13 ecorded in the City
Under 1 year	5,123	4,548	109Y 9,671
1 to 4 years	4,263	4,754	710,9 1946-1950
5 to 10 years	720 · · ·	825	22011201-1,545
. 10 to 14 years 2.24	240	296	536
15 to 19 years	301	361	662
20 to 29 years	1,012	2,164	2,176
30 to 39 years	1,042	964	2,006
40 to 49 years	1,322	865	ast mi 2,187
50 to 59 years	1,521	1,008	2,529
60 years and above	3,243	3,211	6,454
Total	18,787	17,996	36,783

Principal Causes of Death: The City, which had been relatively free from Cholera and Small-pox during the previous three years, had both these diseases in epidemic form in the year of report. These two diseases together were responsible for the loss of about 1,000 lives. The other

h-2

water-borne diseases like Typhoid, Dysentry, and Diarrhoeas were responsible for about 5,500 deaths. Non-tubercular respiratory diseases have taken a toll of 8,600 deaths as against 7,691 in the previous year 1956.

LUMATE SOLUTION	Contraction of the second seco	Constitution of the	Ser Shill and the second
Causes of Death	Males	Females	Total
Plague			Rushin
Cholera	173	241	414
Small Pox	220	208	428
Measles	(8,c1	2	2 submitte
Malaria	7	11	18
Enteric Fever	118	69	187
Other Fevers	1,228	1,292	2,520
Dysentery	1,243	1,397	2,640
Diarrhoeas	1,230	1,315	2,545
Tuberculosis (including T. B. of lungs)	418	197	615
Other Respiratory Disea	uses 4,460	4,144	8,604
Deaths due to child bir	th —	150	150
All other causes	9,690	8,970	18,660
Total	18,787	17,996	36,783

The following statement shows the figures under the prinicipal causes of death :--

Infant Mortality :- The Infant Mortality Rate of this year was the lowest on the records so far in the history of Madras City. The number of deaths amongst infants, under 1 year, was 9,671 as against 9,800 in 1956 - the rates being 139.76 and 145.24 respectively. The infant mortality rate recorded in the City since 1946 are :

Year			Infant Mortality rate		
	1946-1950	4.754		176.26*	
	1951-1955		720	157.98*	
	1956		240	145.24	
6	1957			139.76	
2.1		2,164	· SI0.1	*quinquennial average.	

Of the total number of infants deaths, 5,123 occured among males as against 4,548 in females. Of the total 9,671, nearly 35% died before they attained the age of 1 month and 22.3% within 1 week after birth and the following, shows the number of deaths under different age-groups under 1 year:

 Age Groups	No. c	of Infant deaths	
Under 7 days		2,163	
Above 7 days and under 1 month		1,224	
Above 1 month and under 6 months		3,172	
Above 6 months and under 1 year	1.000.10	3,112	
Total	demic to	9,671	

1-2

at ware responsible for the loss of about 1,000 lives. The other

As per principal causes, responsible for these infant deaths, 30% of these deaths were due to permaturity and consequent debility and another 30% due to respiratory diseases. It has been universally recognised that the Infant Mortality Rate is a fairly good index of general sanitation of the City. The gradual decrease of the Infant Mortality Rate in the last 2 decades is a clear indication of the improvements in the standard of sanitation of the City. However, the high neo-natal mortality rate and the 2 principal causes of death, namely the prematurity and the respiratory disorders, show that with greater ante-natal care and provision of skilled assistance, during the time of confinement and after, will definitely decrease this rate still further.

The following statement shows the principal causes of infants death :

	Causes of Death	No. of Deaths	Age-Disease specific death rate.
1.	Cholera	a de querrait avoid	0.04
2.	Small Pox	100	1.03
3.	Measles		··· dens
4.	Diphtheria	13	0.03
5.	Enteric Fever	2	0.02
6.	Malaria	1	0.01
7.	Other Fevers	595	6.15
8.	Dysentry	418	4.32
9.	Diarrhoea	884	9.14
10.	Infantile debility, mal- nutrition, including premature births.	2,979	30.80
11.	Disease of the respiratory organs.	2,755	28.50
12.	Convulsions	377	3.90
13.	Other diseases	1,543	15.96
	Total	9,671	100.00

Maternal Mortality :- As a result of child-bearing, there were 150 deaths amongst the mothers with a mortality rate of 2.08 as compared to 153 maternal deaths and the rate of 2.18 for the previous year.

There has been a steady decline in the recorded Maternal Mortality Rate in the City and this year's is the lowest on record so far. One of the most of the important contributory causes for this decline is the expansion of Maternity and Child Welfare Services and catering of skilled assistance to women during the ante-natal and post-natal periods

	Year	Maternal Deaths	Maternal Mortality rate
Children and the second	1948	142	2.83
alan over a	1949	130	2.48
	1950	113	2.15
internal care	1951	151	2.50
	1952	155	2.78
	1953	155	2.78
	1954	150	2.47
	1955	156	2.34
	1956	153	2.18
Discase	1957	150	2.08

and as well as during the confinement. The maternal mortality rates for the last one decade is furnished hereunder :---

#### CONTROL OF INFECTIOUS DISEASES

This year has been unique in the respect that Madras had three diseases in epidemic form and this department was able to control them very quickly and successfully. For the first time after several years, Madras was seized with an epidemic of INFLUENZA imported from the far east.

#### Small-pox

Small-pox, which was occurring in the form of 'stray cases' in the beginning of the year, slowly developed into a mild epidemic from the beginning of March and came down to pre-epidemic level by the end of May; but unfortunately showed a recrudescence in the month of September and continued to be on the increase even at the end of the year. Though Madras City was never free from Small-pox, the disease is seen to take epidemic form periodically. The last big epidemic was in the years 1950 and 1951 with about 7,000 cases reported and after that the disease was maintained at an endemic level. The way it started in 1957 and its continuing into 1958 shows these two years may be epidemic years.

The number of attacks and deaths from Small-pox reported in the City during 1957 are as follows:---

Months			Cr	TY	Mort	USSIL
Wontus	Wontus		Attacks	Deaths	Attacks	Deaths
January			30	4	26 minte	IZ COUVE
February			32	2	15	2
March			195	29	a 31 ozili	13. Sther
April			251	47	79	12
May			122	35	30	5
June			64	13	34	7
July			78	18	55	9
August			99	18	50	4
September			138	32	28	7 2010
October			178	46	18	1
November	L byfor		188	51 51	24	1 9195
December			345	70	27	ity Roge ind
and catering	Total		1,720	365 bre	417	10. 63 Bringke

As soon as there were indications that Small-pox was taking an epidemic turn, the public were informed through the press and the Propaganda Van the urgent need for protecting themselves against Small pox, the efficacy of Vaccination, the various dangers of an attack of Small pox and the need for isolation of all cases of Small-pox—whether mild or severe. The response to this public appeal, though not spontaneous, was quite good. It was only with the co-operation of the public, this department was able to control the further spread of the disease, which otherwise would have taken a very bad turn. In all 1,720 cases were reported from within the City, of which 365 proved fatal, with a case fatality rate of 21.2%.

To cope up with the additional work, several additional Sanitary Inspectors and Vaccinators have been appointed. Intensive house-to-house inspections—especially in slums—have been undertaken. Several hidden cases have been detected and isolated. Vaccination has been done on mass-scale at most vulnerable areas. Similarly to meet the increased admission, temporary sheds have been erected at Infectious Diseases Hospital for additional accomodation and staff under various categories have been appointed under the emergency scheme.

Isolation of cases and intensive vaccination are the most important and sure preventive measures in tackling epidemic of Small-pox.

Vaccinations are done at 31 Vaccination Centres, spread all over the City, by 72 qualified Sanitary Inspectors and 8 trained Lady Vaccinators. Vaccination was also done by Birth & Death Registrars at the various Offices of Registration of Births and Deaths. The employees of licensable trades and immediate contacts of Small-pox cases, notified, were vaccinated by Sanitary Inspectors. During the year, the vaccination staff contacted the parents of all the babies born in the City for the purpose of compulsory vaccination and the bye-laws framed under Section 349 (26) of the M. C. M. Act. By intensive house-to-house inspection, 18,564 babies, born in the mofussil and brought to the City without being vaccinated, were detected. Of the total, 54,139 Primary Vaccinations were performed during the year as against 52,929 in the previous year. Systematic re-vaccinations, street-by-street, has been done by the vaccination staff under the system of block-work. Persons, who were not able to produce evidence of re-vaccination during the last 4 years, come under the category of 'unprotected' persons under the provisions of M.C.M. Act. Re-vaccination is compulsory for such persons. In all 3,85,729 re-vaccinations have been done during the year under report.

The results of vaccination were verified by the Assistant Health Officers and Sub-Asst. Health Officers. The success rates amongst Primary Vaccinations and Re-Vaccinations were 99.9% and 6.3% respectively. Nearly 80% of the total primary vaccinations were done on infants under one year of age.

For failure to get their children vaccinated, 154 persons were prosecuted and convicted, and 49 persons were convicted for failure to get

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Months	Attacks	Deaths	Primary & Secondary Vaccinations	Re-vacci- nations
January	30	4	4,870	23,297
February	32	2	5,845	28,484
March	195	29	6,210	70,866
April	251	47	5,231	83,227
May	122	35	3,726	45,096
June	64	Anow 13	ribby and 3,175 au aqua	13,640
July	78	18	4,313	18,371
August	99	18	3,497	18,337
September	138	32	3,350	15,123
October	178	46	4,186	92,959
November	188	51	4,548	22,486
December	355	70	5,193	23,843
Total	1,720	365	54,144	3,15,729

themselves re-vaccinated. The following statement shows the incidence of Small-pox and the vaccinations performed month-war :--

Vaccination against Small-pox and Inoculation against Cholera were performed for the purpose of International travel and the certificates were issued duly authenticated by the Health Officers to 7,215 persons during the year.

As in previous years, students of the Sanitary Inspector's Course, Medical Colleges in the City as well as Vellore and Village Vaidyas were given training in Theory and Technique of Vaccination by the Range Health Officers.

Particulars of the vaccinations performed in each division during the year are furnished in Statistics Supplement No. 19.

#### **EPIDEMIC INFLUENZA 1957**

#### The Threatened Invasion

The first information of the likelihood of import of infection of 'Asian 'flu' into Madras City from Singapore, where it was raging, was received by the Health Officer on 13th May 1957 from the Director of Medical Services, who has convened a conference of the Officers of the Public Health Department of the Government of India, Government of Madras and the Corporation of Madras to discuss the various measures to be taken to deal with the situation in case the City is threatened with such a contingency. The Asst. Director-General of the Health Services, Government of India, Delhi, addressed the conference and explained the measures to be taken in case infection is imported into this country. While actually the conference was going on, a telegram was received that S. S. "Rajula", a steamship plying between Singapore and Madras carrying 1,797 passengers, was heavily infected with Influenza and that she would be arriving at Madras on the night of 15th May 1957 without touching Nagapattanam. It also stated that there were 135 badly affected cases amongst the passengers and 20 among the crew, including the ship's Medical Officer and Nurse besides several other mild cases. The Captain of the ship was immediately informed by radio message, under the instructions from the Central Government, that his ship would be quarantined and that he should display "Q.L." Flag and that he shall anchor "in roads" beyond one mile away from the shore and shall not anchor within half-a-mile from any other anchored ship.

Further discussions were held at a higher level as already the danger was imminent and it was agreed that the State Government shall send Medical Teams on board the ship to treat the sick and the Corporation to send Health staff for the purpose of disinfection, etc. It was also agreed that the ship shall be quarantined for a minimum period of 120 hours, and the procedure to be followed at the end of the quarantine period, would be discussed later.

#### Anticipatory Preparations

In view of the imminent danger of threatened out-break of the epidemic in the City, the Government was requested by the Health Officer and the Director of Public Health to declare "Epidemic Influenza" as 'Infectious Disease' and also as 'Notified Infectious Disease' under the Madras Public Health Act to ensure proper notification of the cases as well as to take effective preventive measures. Consequently, the Government have notified that "Epidemic Influenza" an 'Infectious Disease' for the purpose of Part I of Chapter VII and 'Notified Infectious Disease' for the purpose of Part II of Chapter VII of the Madras Public Health Act for the whole State of Madras on 15th May 1957 even before the arrival of the ill-fated ship, S. S. "Rajula".

The public have been informed, through the press, talks on the microphone and distribution of leaflets, that there was no cause for alarm as "Asian 'flu" was of mildest strain, advising them what they have to do when there are cases of Influenza in their house-hold, to prevent further spread. They have been asked to notify all cases to the nearest health official, to contact any Medical Officer of a Corporation Dispensary or any doctor immediately they found signs of Influenza and to isolate all cases at home unless they are seriously ill, in which case they can be isolated at the Infectious Diseases Hospital and to disinfect their houses frequently by burning Incence like 'Sambrani' (country Balsam) which is a very good aerial disinfectant.

All the Corporation Medial Officers have been instructed about the signs and symptoms of "Asain 'flu" and were advised to notify all cases that come to their knowledge and to isolate the seriously ill at Infectious Diseases Hospital, Tondiarpet, and treat the mild cases there itself giving suitable medicine and instructions. They have been asked to keep a large stock of Sulpha Drugs, A. P. C. Tablets and Penicillin to deal with the situation.

Extra staff have been posted in some dispensaries and all dispensaries were ordered to be kept open on all days including Sundays and Holidays both morning and evening and also the working hours in the evenings were increased by one more hour. To cater the public in slum areas and people who are far away from regular dispensaries, 5 mobile dispensaries, equipped with enough stock of medicine, etc. were pressed into action, each unit manned by a Medical Officer, assisted by a Nurse and an attendant.

To receive at least 500 cases at a time, the accomodation at the Infectious Diseases Hospital, Tondiarpet, was incressed by putting up temporary sheds and converting some of the permanent wards into emergency Influenza wards. Additional Medical, Nursing and other staff were immediately appointed. The State Government has lent the services of several Medical and Nursing personnel, from their Hospitals to work at the Infectious Diseases Hospital, Tondiarpet, as well as in the Medical Units. Pre-Registration Internees were posted in various Corporation Dispensaries to assist the regular staff. As stray cases of Influenza have been reported from amongst some workers in Hotels in Esplanade (near Harbour) on the 18th May, and in view of the decision taken to disembark all the passengers of S.S. "Rajula" on the 21st May, the Health Officer requested the Collector of Madras to declare the City threatened with an out-break of "Epidemic Influenza" under Section 76(1)(a) of the Madras Public Health Act, and to confer, under Section 76(1)(b) of the Madras Public Health Act, on the Health Officer, Corporation of Madras, all the powers specified under Section 76(2) of the Madras Public Health Act in order to combat the threatened out-break. Consequently the Collector declared, on the 20th May, that the City was threatened with an out-break of "Epidemic Influenza" and conferred extra-ordinary powers on the Health Officer, Corporation of Madras.

#### The Attack and the Counter-Attack

The stray cases, reported from the Hotels in Esplanade, on the 19th May, continued and gradually spread to other Hotels and Institutions, on 20th, 21st and 22nd, and started to assume the epidemic proportions affecting all divisions. Attendance at all the Corporation Dispensaries has increased to an alarming proportion and the Mobile Dispensaries had full work. Admission at the Infectious Diseases Hospital increased and finally it was decided not to admit all cases but restricted it to only deserving seriously ill cases with the result, an "Out-Patients" Clinic had to be opened at the Infectious Diseases Hospital, Tondiarpet, where mild cases were treated as 'Out-Patients.'

In order to prevent further spread, the Government have been requested to close all the Cinema Theatres for a period of one month or at least ban the morning and matinee shows so as to see that no show is conducted under closed doors. The Cinema Managements have been advised to allow free circulation of air between the shows, disinfect the auditoria with Propylene Glycol which is a viricide, or atleast burn incence like ' sambrani'.

The Government have also been requested to order postponement or re-opening of schools after summer vacation by one month. Accordingly the morning and the matinee shows were banned, and even the evening shows were not permitted to start before 7 P.M., for a period of one month upto 28th June 1957 and all the schools were ordered not to re-open till 1st July 1957.

On report of cases, the Divisional Sanitary Inspectors went to the infected houses, advised the contacts to keep away from the sick, and disinfect the houses by burning 'sambrani'. Seriously ill cases were isolated at the Infectious Diseases Hospital, Tondiarpet. A few institutions, when infected, were disinfected with Propylene Glycol in the form of aerosol, through a fogging machine called the "Swing Fog" with very encouraging results.

Under the instructions from the Virus Laboratory at Coonoor, application of Mandle's Pigment to the throat, was advised as preventive measure to the public.

All the healthy passengers from the infected ship, S. S. "Rajula" as well as the S. S. "State of Madras" which arrived on 28th May 1957, who were residents of Madras, were kept under surveillance of the Corporation Health Staff for at least 5 days from the date of disembarkation.

Clinical aspect of the Epidemic:—Usually the onset had been sudden with severe head-ache, body pains and fever. The temperature ranged between 101°F to 104°F, with flushing of the face and dry irritating cough to start with and after a day or two cough and coryza. Usually by fourth or fifth day the temperature came down, though the cough and coryza continued for a week or so. In several cases, there had been a secondary rise of temperature after two days. In such cases, the convalescence was protracted and disability and incapacity for work were very much more. Epistaxis was found in about 5% of cases. Pneumonia was the main complication that was responsible for the majority of deaths. Only in one instance the symptoms of Meningitis appeared.

Treatment mainly consisted of Aspirin for head-ache and pains, Sulpha Drugs in doses of 1 gram every 4 hours for 2 or 3 days. In serious cases, Penicillin 5 lacs twice a day or Achromycin 125 mgs. 4 to 6 times a day or other broad spectrum antibiotics were used to prevent and treat complications. When compared to morbidity, the fatality rate was markedly low, though the Post Influenzal Asthenia was very high.

Statement No. 1 shows the week-war age-sex distribution of attacks of Influenza admitted into the Infectious Diseases Hospital, Tondiarpet.

Week Ending	Und 1 y			-5 rs.	6-1 yr:		11- yea		21- yea	1000 00000	31- yea	00000000	41- year			ver yrs.	Tot	al	Grand
bar in	М	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	unob Unob
25 May	1	1	4	6	8	5	240	31	339	26	79	16	28	9	16	6	715	100	815
1 June	13	2	18	18	37	20	266 (2)	59	470	75	128 (1)	22 (1)	69	19	38	7	1039 (3)	222 (1)	1261 (4)
8 June		-	1	6	7	12	64	42	107 (1)	14	30 (1)		17	5	8	4 (2)	235 (2)	91 (2)	326 (4)
15 June	1	2	1	4	6 (1)	9	26 (1)	69	33	12 (1)		4	7 (1)		12	3	104 (3)	107 (1)	211 (4)
22 June	2		3	4 (1)	-	2	5	2	10	3	4		2	1	-	- 1	26	13 (1)	1 3 (1
29 June	-	-	-	· 80	-	-	1	2	6	1	+	535	1	-	1	1	e inc	4	1.
6 July	-			84	-		1	7	1		1	534	30,	-			inc	11 2	r
Total	18	5	27	38	58	48	603 (3)	205	966 (1)	131 (1)	260	50 (1)	135 (1)	38	76	22	2133	537	267

"\* Figures, within brackets, 'deaths due to Influenza'.

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Of 2,670 cases admitted nearly 80 % were men. The proportion of incidence among women to men of different age-groups is 1:1'1 under 10 years, 1:4'6 in the age-group 11-30 years, 1:4'3 in the age-group 30-50 years, and 1:3'5 in the age-group over 50 years. There is a proportionate incidence amongst the females under 10 years. With reference to age, the maximum cases occurred in the age-group 21-30 years, accounting for 41% of the total cases. It is the lowest in extremes of ages with about 0'8% under 1 year, and about 3'6%, above 50 years. In all, 13 deaths occurred due to Influenza amongst the Hospital cases with a case fatality rate of 0'484%. Of the deaths 38'5% were women. The case-fatality rate for women was very much greater, compared to men, the rates being 0'9% and 0'33% respectively. The fatality is the highest in old people over 50 years with a rate of 2'03%, then comes in order the age-group 11-30 years with a rate of 0'261%. One case, a 28 year-old-male, developed meningial symptoms and in all the others death was due to complications of lungs, like Broncho-Pneumonia, Lobar-Pneumonia, etc. The average duration of the disease before death was 3'2 days.

#### Assessment of the Damage

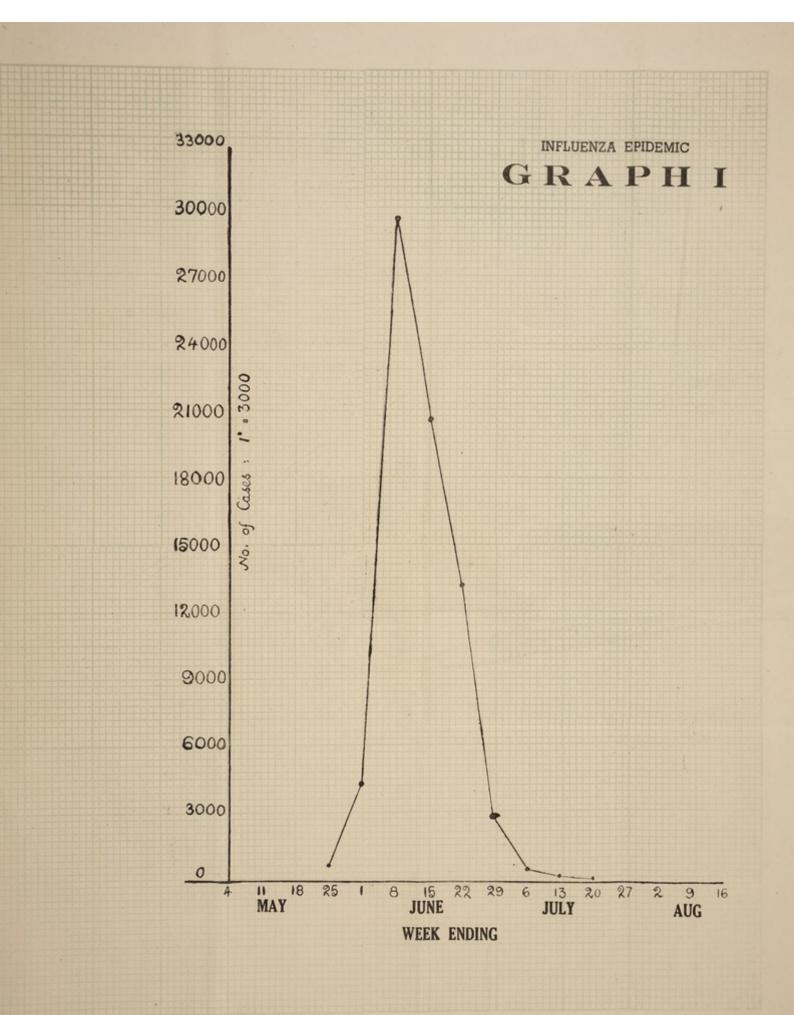
The epidemic which started on 19th May 1957, reached its peak during the third week and declined gradually by the end of the 7th week, after which the incidence was almost on pre-epidemic level. Of course before the epidemic started, the "Epidemic Influenza" was not a "Notified Infectious Disease" and hence, there were no authentic figures for the normal weekly incidence of this disease. Although notification of 'Influenza' was made compulsory after the 15th May 1957, notification to the Health Officer was very poor even from the State Hospitals and it is almost nil from private practitioners, though practitioners were found to be treating thousands of cases. There were 74,241 attacks of and 21 deaths due to Influenza notified to the Health Officer during the 7-week epidemic period from 19th May 1957. It was known that very few families escaped contracting the infection but the cases notified accounted to only about 4.5% of the population, which was definitely very much lower than the real. There was a definite indication of a far heavier infection of the City, as can be seen by an abnormal increase in the number of deaths due to all causes as well as due to Bronchitis and Pneumonia during the same period.

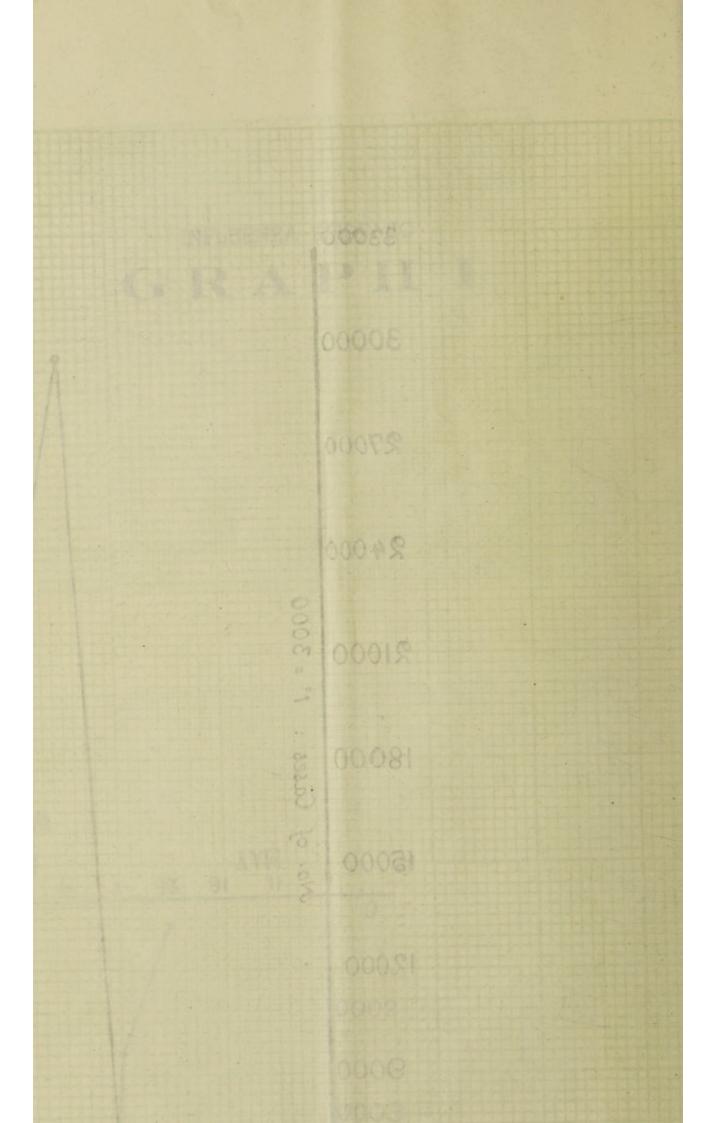
Statement No. 2, shows the week-war Incidence of cases notified, deaths due to Influenza, deaths due to Bronchitis and Pneumonia and deaths due to all causes.

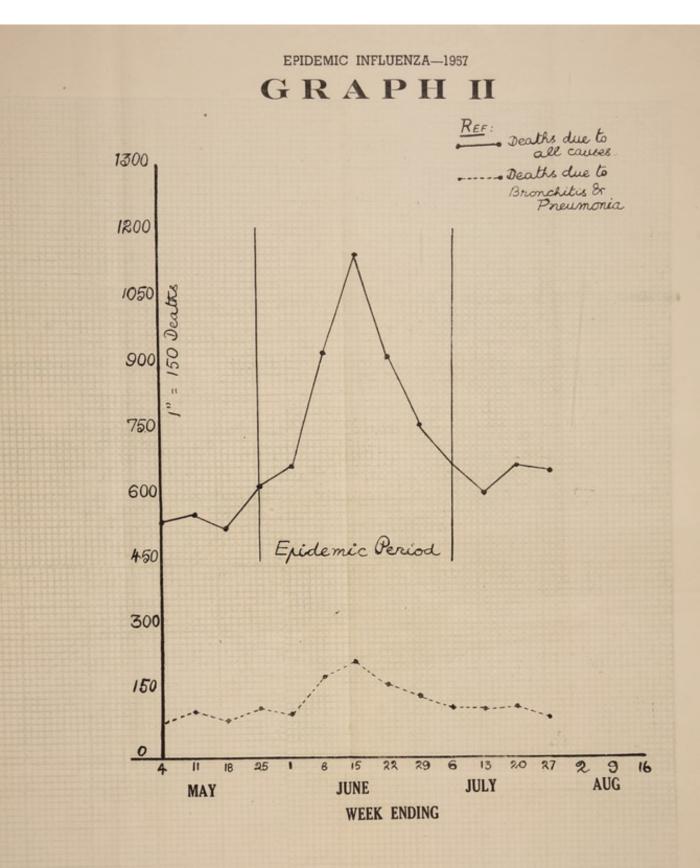
Week	5 00	Notified		Deaths due to	5 May 1	
Ending		Incidences of Influenza	Influenza	Bronchitis & Pneumonia	All Causes	
4 May	۹. I	1.4	1010-0	77	541	
11 May			0	102	556	
18 May		1 2 - 2 -	5 - 10	78	526	
25 May		654	1	112	616	
1 June		4,535	5	108	668	
8 June		30,534	7	184	929	
15 June		21,029	5	221	1,148	
22 June	51	13,651	1) (1) 1 (0)	164	918	
29 June		3,030	addebb 1 and	137	760	
6 July		608	o a virene b	110	674	
13 July	- L-RI	319	men_of differ	107	609	
20 July	Q	264	OT INVESTIGAT	113	673	
27 July	11. ac	191	v Ol-rabat as	92	588	

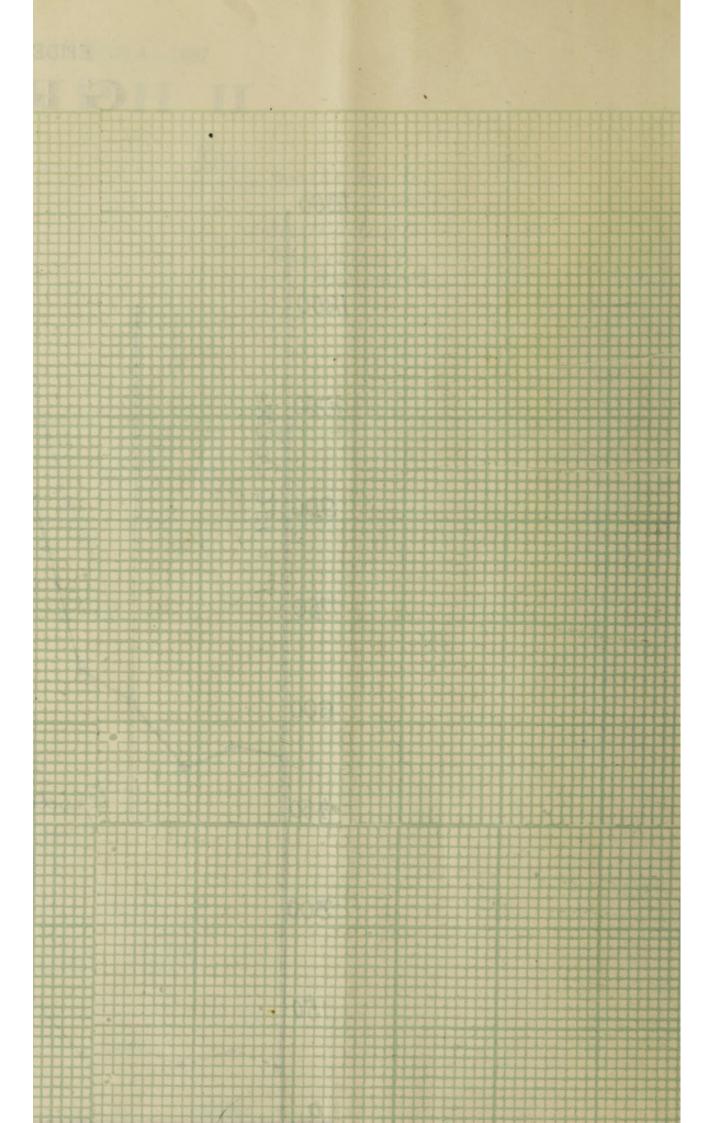
The Statement No. 2 and the corresponding Graphs 1 & 2, suggest that the increased mortality is in all probabilities due to Influenza, though the deaths were not registered as such, as otherwise there is no reason why there should be this abnormal rise in the mortality due to Bronchitis and Pneumonia. Since certification of deaths were not compulsory in Madras, several of these Influenzal deaths might have been passed off as Pneumonia and Bronchitis. Hence to get at the correct statistics of the incidence of, as well as deaths due to, Influenza, there was no other go except to do a sample survey, which was undertaken on 8th June 1957, when the epidemic has reached its peak. But several thousands of cases have been

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reported for at least 3 to 4 weeks after the survey was undertaken, and so, even the survey figures would only be partially correct.

#### The Survey , noisestar and tant tont and

As per the instructions of the Director of Public Health and the Government of Madras, a random survey has been conducted to assess roughly the prevalence of Epidemic Influenza in the City. The proforma was printed and supplied to the various Divisional Sanitary Inspectors and the survey was finished in three days from the 8th June.

For the purpose of this survey, the houses and the streets were selected by the Office. From the key-list of the streets available, the number of streets in each division were divided by ten and the quotient has been taken up as frequency. If the balance after division is less than 5, the x/10th street has been taken as the first street and if it is more than 5, x/10 + 1 was the first street where 'x' was the total number of streets in the division. For example in a division of 49 streets, 5th, 9th, 13th, 17th, etc. were selected whereas in a division of 44 streets, 4th, 8th, 12th, etc. streets were selected. Similarly for houses also the total number of houses in the particular street were divided by 5 and the same principle followed. Barring a few exceptions, in general, a common formula was used in the survey and more than that the person who has selected the houses and the streets, had an open mind since he was not in the know of places of infection. Each division had ten streets selected and in each of 10 streets, 5 houses equally dispersed. This would cover about 2% of the houses in the City. Each family in the selected house was enquired into and the form was filled up. The data thus collected are tabulated and furnished. The following are some of the salient-features of the survey :--

Total Num	ber of Houses surveyed	3,325	
, or other	, Families surveyed	5,366	
es aven per	, Persons interrogated	28,306	
as also can	, Families infected	2,948	
,, i e oli,	, Persons infected	8,687	
rib re	, First cases who gave information of having attended Cinema show within 4 days prior to the attack	148	
n" noise	, First cases giving history of having direct contact with pre-vious cases from Singapore	Nagapattanni ich case the in ite, Esr which	00 00
",	, Deaths reported to be due to Influenza and not registered as such	3	
Percentage	e of families infected	55 %	1
ne bre bor	persons infected	30.7%	
wind and all	flrst cases who gave information of having had Influenza within 5 days after attending a Cinema show	5%	
Case fatali	ity rate (%)	0.0345 %	
Estimated	Mid-year Population for 1957	17,58,607	
bao mil	Influenza attacks as per this survey	5,39,892	
	Deaths due to Influenza	186.5	

It is found from the survey that in the Municipal Divisions within a mile from the Harbour the infection rate among the population was about 40-50 % and it gradually became less as one goes farther and farther from the Harbour. It can not be said definitely whether this was due to the fact that the infection was imported and implanted first in the Harbour area or that those areas are highly congested with a high density of population.

Another interesting point worth noting from the survey is that 5% of the first cases in each family have given history of having had the attack within 5 days after attending a Cinema show. This information is of a very great importance, indicating the important role played by the places of public resort in the spread of 'Air-borne' Epidemics.

As stated already, if the survey has been conducted at the end of the epidemic, we are sure, the infection rate would definitely be more than 50%.

## Retrospection

Looking back on the epidemic it can be said that it had been a very mild one. The City was very heavily infected and nearly 60% of the population should have been affected. But the mortality was considerably very low.

It is not known how the infection started even before the passengers were disembarked from S.S. "Rajula" but it is easy to presume. Several members of the medical teams were going up and down between the shore and the ship and it is not difficult to imagine that there is every likelihood of their transporting infection from the ship on to the shore. Majority of these personnel also have been reported to have had the attack of influenza within a week after their work on the ship. Hence the infection in the City is in all probability due to the movement of the Medical Teams from the ship to the shore. However, from the results of the survey it has been found that there have been a few cases even before the arrival of the ship. Whether these cases were really "Asian 'flu" or not, cannot be categorically stated. Even if they were, that also can be explained by the possibility of importation of infection through S.S. 'State of Madras', which arrived from Singapore, 15 days prior to the ship when the Government of India Health Officials were not so particular and rigid in the medical examination of the passengers—especially with reference to this particular disease. There is also another possibility. Several hundreds of passengers from S.S. "State of Madras" have disembarked at Nagapattanam, where the medical examination is always cursary, in which case the infection in the City might be a result of infection in the State, for which we have no authentic reports.

## Cor sub so Summary dired

1. S.S. "Rajula", carrying 1,797 passengers from Singapore, where "Asian 'flu" was raging in epidemic form, arrived in Madras in the early hours of 16th May 1957, heavily infected with "Asian 'flu" with about 250 to 300 patients of whom some have recovered and some were acute.

2. The Health Department of the Corporation of Madras have taken all the anticipatory precautions to combat the threatened out-break of epidemic in the City.

3. The Epidemic of Influenza started in the City on 19th May 1957, reached its peak during the 3rd week and declined by the end of 7th week.

4. Altogether, 74,241 cases were reported with 21 deaths and a case-fatality-rate of 0.028%. Of these cases, notified, 2,670 cases have been admitted as 'in-patients' in the Infectious Diseases Hospital, of whom 13 died.

5. Since notification of the cases were very poor and it was found that there were very few houses that have escaped infection, a sample survey had been conducted during the peak of the epidemic. This survey has given an attack rate of 30.7 %. But as the epidemic has run atleast for 4 weeks after the survey was over, it will not be wrong to put the attack rate at 50% to 60%.

#### CHOLERA

Just as the citizens were recovering from the effects of the severe epidemic of Influenza, Cholera broke out suddenly-almost without a warning in the epidemic form-towards the end of June, and it continued till the end of November. Since the population was highly debilitated due to Influenza, the incidence of Cholera was comparatively high though localised to a few divisions in the City and the case fatality was also rather high, compared to those of previous years. All notified cases were isolated at the Infectious Diseases Hospital at Tondiarpet and strong preventive measures were taken. Additional staff were appointed at the Infectious Diseases Hospital and temporary sheds were erected for the increased accomodation. Special Cholera Inspectors and Observers were appointed for preventive work on the field. Additional conservancy staff were appointed in affected divisions to prevent the accumulation of rubbish and breeding of flies. All the refuse from the infected divisions were incinerated and no dumping of rubbish was done during the affected months. Mobile Conservancy Squads and Disinfection Squads were provided round-the-clock to follow the ambulances so as to facilitate immediate disinfection of the affected houses and conservancy of the affected locality. To avoid any delay in treating the cases, a Mobile Saline Transfusion Squad, manned by one of the Asst. Health Officers, assisted by a Staff Nurse, was pressed into action and about 100 cases of collapse were administered Intravenus Saline Transfusion at their own houses before they were removed to the Hospital and thereby their lives were saved. In all affected areas and vulnerable areas Cholera Inoculations were done in mass-scale and the further spread of the disease was arrested. In such of those areas, where there is no protected water supply, and in those areas, where the Corporation supply was defective, all the wells were chlorinated by special chlorination gangs. Liquid Chlorine was injected into the regional mains at different levels of distribution to ensure bacteriologically pure water supply.

Special Squads have been appointed for de-flying work. Insecticides were freely sprayed over all the dust-bins, market places and dumping grounds. Food stuffs, exposed to flies and dust, were seized mercilessly by special raiding squads.

Auto-rickshaws were employed for quick transport of Disinfecting Squads in the affected divisions, not only for the immediate disinfection of the infected houses but also for continuous disinfection atleast for 5 days for every infected house.

With all these measures of Isolation, Disinfection, De-flying and Preventive Inoculation and with the co-operation of the public, this Department was able to control the epidemic in such a short time.

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Mantha	Ci	ty	Mofussil				
Months	Attacks	Deaths	Attacks	Deaths			
January	3	anin1 bes	0	0			
February	2	0	1	0			
March	0	0	0	.0			
April	0	0	• 0	0			
May	11	2	4	2			
June	112	18	3	1			
July	161	24	10	3			
August	449	97	29	6			
September	679	140	69	11			
October	196	22	12	0			
November	396	72	27	6			
December	32	5	18	14			
Total	2,041	381	173	43			

The following is the statement showing the month-war incidence of Cholera :--

#### ENTERIC FEVER

Enteric Fever was prevalent in an endemic form throughout the year and almost all the divisions of the City were affected. Though notification of this disease is compulsory, very few cases have been notified by the Private Medical Practitioners. Almost all the cases notified were only from the Hospital reports. Even from the Hospitals, when notifications were made on admission of suspected cases, further reports were not sent in several cases, furnishing the final diagnosis with the result the statistical figures, furnished here, are highly defective. Inspite of repeated requests, the co-operation from the City Hospital authorities and the general medical practioners is wanting.

187 persons were reported to have died of Enteric Fever during the year and total cases notified to this Department was 1,757.

In all cases notified the Divisional Sanitary Inspectors went to the infected houses, inoculated the immediate contacts and the neighbourhood, disinfected and de-flied the areas and chlorinated the wells. Proposals are being worked out to have a pilot scheme at least in certain areas of the City to do an epedimiological investigation of the occurrence of this disease.

#### MEASLES

627 cases of Measles were notified and 2 of them proved fatal due to the complication of Broncho-Pneumonia.

Tuberculosis (including the Tuberculosis of the Lungs):—Though a notifiable disease, the notification of Tuberculosis by the private practitioners continued to be poor. The Corporation of Madras runs 5 Tuberculosis Clinics—One at Pulianthope and the other four one each attached to Govt. Stanley Hospital, Government General Hospital, Govt. Royapettah Hospital and Govt. Kasthurba Gandhi Hospital. The incidence of Tuberculosis and other control measures taken were discussed under 'Medical Relief'. There were 615 deaths registered due to this cause in the year 1957 as against 396 in the previous year.

#### **INSECT-BORNE DISEASES**

1. Kala-azar: 63 cases and 10 deaths from Kala-azar were reported to this Department during the year as against 147 and 33 respectively during the previous year. This great reduction in the incidence is probably due to the use of D.D.T, as a residual spray against the mosquitoes which incidentally kills the sand-fly, the vector of this disease. The spraying squads of the Malaria Section went to all the infected houses and sprayed the residual insecticide, D. D. T., in the infected houses and their sorroundings.

2. Malaria: The mortality due to Malaria has fallen down considerably due to regalar systematic spray of residual insecticide of the endemic areas of George Town, which have been brought under the National Malaria Control Programme. There have been only 18 deaths due to Malaria as against 33 the previous year. And this was the lowest on record. The following statement shows deaths due to Malaria year-war for the last 10 years:

	Year	Deaths
2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1948	40
	1949	37 and analysis
	1950	102
	1951	91
	1952	nico al alluba eta 75
	1953	96
	1954	105
	1955	75
	1956	33
	1957	Rabe 81-The Corporation

The anti-mosquito operations in the City mainly consists of measures against the larvae and pupae and measures against the adults. The later are completely taken up by the Senior Entomologist under the National Malaria Control Programme. These measures covered only 13 divisions of the City which were declared endemic to Malaria. The General Malaria Section dealt with larvaecidal measures for the whole City.

The Asst. Health Officers, assisted by 5 Malaria Supervisors, specially trained in Anti-malarial operations, were in-charge of anti-mosquito operations.

The usual breeding places of mosquitoes are storm-water drains, stagnating pools of water, cess pools and inside the houses, wherein condemned utensils, tins, etc., which are likely to collect water, are stored, and water cisterns. Besides these, unused wells, ponds and tanks are good sources of breeding mosquitoes. To deal with these various sources of breedings, the malaria staff have been divided into various categories of squads. The main aim is to see that every breeding place is treated once a week, since one week is the maximum time required for the egg of a mosquito to become an adult. Though the storm-water drains of the City, which run into several miles, are treated every week the breeding places in every house was not able to be attended to weekly for want of sufficient staff, with the result the mosquito nuisance in the City could not be completely eradicated.

The different categories of squads employed in the anti-mosquito operation are the drain-cleaning gangs, de-sinting gang, fish gangs, houseinspection squads and tank-cleaning gangs. Besides these, as per international sanitary conventions, the Corporation is bound to keep half-amile area around the Harbour, free from aedes mosquito, which is a vector of the disease, "*yellow fever*". For this purpose special stegomiya squads are employed in the various divisions that fall within half-a-mile radius from the Harbour, whose duty is to inspect every house and every collection of water in those areas and see that there is no breeding of aedes aegypti.

During the year under review, 22,598 wells have been inspected and kept free from the breeding of mosquitoes by the introduction of larvicidal fish.

The main waterways, that flow through the heart of the City, namely Buckingham Canal, the Coovum River and the Adayar River, have become very good sources of breeding of mosquitoes due to the contamination of these waters with the sewage of the City. There is another channel which takes the sewage of Nammalwarpet and the tradewastes of B & C Mills—the Ottery Nulla is another source of good breeding. However much this Department is trying to control the mosquitoe-breeding in these waterways, yet they have become a great problem that could not be easily dealt with. Until some arrangements are made to divert all the sewage that enters these waterways, through some other route, this puisance will continue.

As a routine measure in the endemic areas of the City, the residual spraying against the adults is conducted by the Senior Entomologist. However, on complaints and on payment of the scheduled fee, D. D. T. spraying has been done by this Department in several houses.

#### OTHER DISEASES

Rabies:—The Corporation has not undertaken any concrete measures to vaccinate all the dogs or atleast the licensed pet-dogs against Rabies. At present the vaccination is being done at the Veterinary College run by the Government of Madras. This department has confined itself only with the destruction of stray-dogs as one of the measures of control of Rabies. Though the incidence of Rabies in the animals and hydro-phobia in human beings is not very high; yet the dogs have a nuisance value.

There are two motor vans and eight licensed dog-catchers employed for seizing the stray-dogs in the streets of the City, working under the Superintendent of the Lethal Chamber. Every day the vans are taken round as per the stipulated programme, division after division, and the stray-dogs are caught. Special complaints are attended to immediately. The animals, that are thus caught, are immediately examined by our Veterinary Surgeons and frank rabid dogs amongst them are immediately killed by electrocution. The others are detained in the detention chambers for a period of three days from the day they are caught, during which time if any of those dogs are claimed by the owners, they are let off after collecting the licence fee for the current half-year and the feeding charges for the detention period. And all unclaimed dogs at the end of three days are electrocuted. 23,641 dogs were seized and detained and of these 12,309 were bitches. 2,337 dogs were returned to the claimants and 434 were given to the various medical colleges for research purposes and the remaining were electrocuted. During the year 268 rabid dogs were destroyed. The total amount of rewards paid to the dog-catchers, amounted to 4,404.66 Rupees.

The demonstrations of the seizure and electrocution of dogs were given to the students of various Medical Colleges, Public Health Nurses, Health Visitors and Sanitary Inspector-students. The members of the S.P.C.A. visited the Lethal Chamber.

#### NATIONAL MALARIA CONTROL PROGRAMME

The National Malaria Control Programme, which has been implemented in the City of Madras from July 1955, has now been switched over to Malaria Eradication Programme throughout the country under national emergency. International authorities have laid particular emphasis on the need of urgency in eradication programmes and on the great importance of sound plan of action and of carrying it out with precision and on schedule. This programme will mean an all out war on Malaria—no matter what the cost—its object being to stamp out the disease completely in India before the mosquitoes develope resistance to insecticides. It is feared that if the eradication programme is not carried out energetically, a time may come when resistance types of mosquitoes will emerge out and spread Malaria unprecidented among non-immune population in the country and claim millions as its victims.

The Madras Corporation has recognized the importance of extending the fight against Malaria and agreed to participate in the programme to afford protection to a population at risk which is estimated to about 6 lakhs in the City. At the end of 1955, 2,08,872 that is 34.5% of the total population at risk had been protected. In 1956, the scheme was extended to protect 2,53,600 which means 42.3% of the population in malarious area and in 1957, the protection was further extended to cover 3,50,000 inhabitants as shown in the chart graphically represented. It has now been decided by the Council to extend the malaria control operations to protect all the six lakhs at the risk in the City.

Staff :--During the year under report, Sri Khasim Ali Miyan continued to be the Senior Entomologist in-charge of the National Malaria Control Programme in the City. The duties entrusted to him are that he should see that the programmes are carried out correctly and according to schedule by the staff of the unit ; he should carry out post-operational malaria surveys to assess the results and study the behaviour of mosquitoe adults and larvae towards insecticides with the effect on the incidence of Malaria.

The personnel for the National Malaria Control Programme during 1957 consisted of the following :--

Malaria Supervisors	1,1,342		
Laboratory Technician	. 193	12.517 ·	
Typist		. 1	
Attenders	. 167	. 502,564	
*Stegomyia Overseer		1	
*Maistries		. 3	
*Literate Thozhilali	17	. 339,9 1	
Drivers		. 2	
Cleaner		1	
*Peons		. 2	
Thozhilalies		. 25	

(\*Staff diverted from the General Malaria Section temporarily to the National Malaria Control Programme)

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Investigations into the prevalence of Malaria in the City of Madras:-

It will probably serve a useful purpose to consolidate below the available data of malariometric surveys undertaken before the initiation of the National Malaria Control Programme in the City.

Year	Over a	ll spleen r	ate	Over all parasite rate				
	Number of children examined	Number found positive	rate	Number of smears examined	Number found positive	Parasite rate per cent		
1915	583	69	11.5	574	42	7.1		
1933	336	72	21.4	336	20	. 5.9		
1934	des derense son	229	03	838	433	51.7		
1936		10 10		5,633	2,191	38.9		
1937	and the second			2,450	749	30.6		

Table No. 1

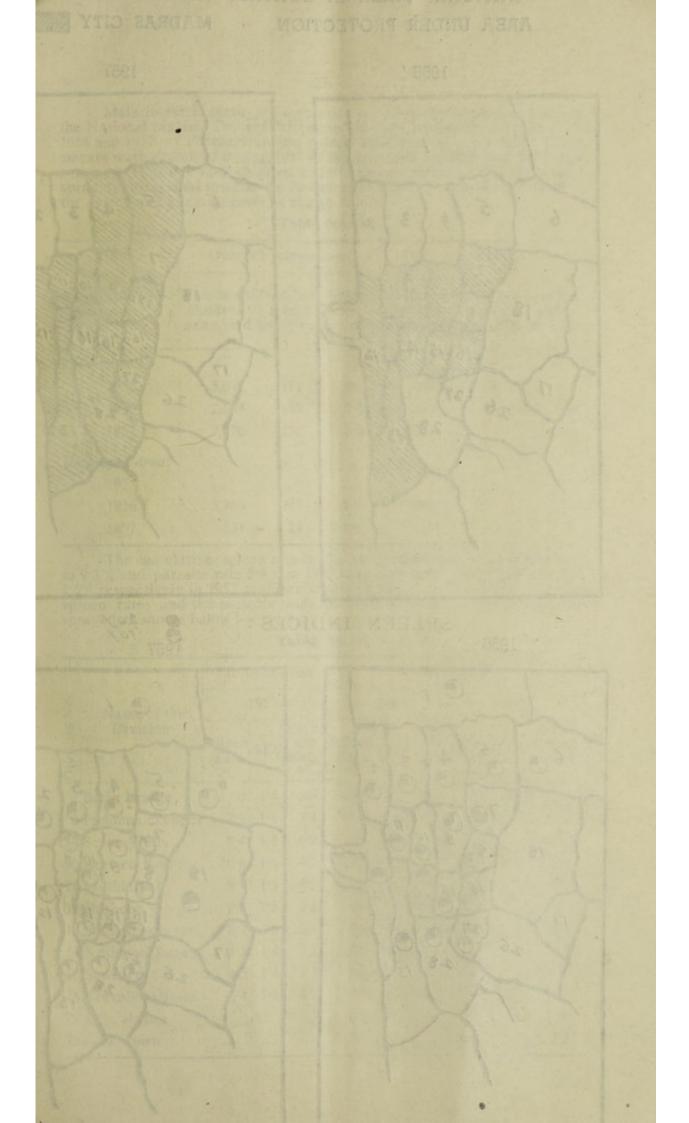
It has been recorded as a result of the malariometric surveys that Malaria is mainly confined to the northern portions of the Madras City particularly George Town and Park Town, that it is evenly distributed within this area almost throughout the year with periodic outbreaks of epidemics. It was noticed that nearly 80 to 90% of total enlarged spleens occurred among children attending schools in North Madras. In 1930 221 children in North Madras had enlarged spleens out of 327 for the whole City in respect of children reading in Corporation Schools.

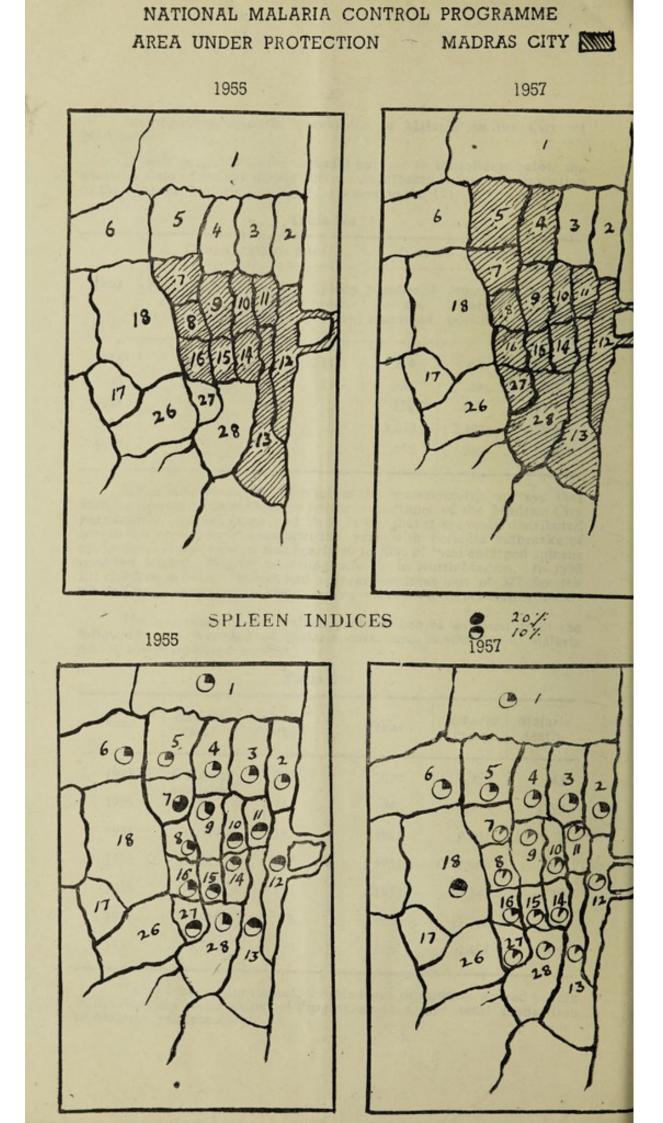
The magnitude of the Malaria problem can be assessed from the following data recorded of Malaria cases and deaths due to Malaria during the years noted against.

Year	Malaria cases	Malaria deaths	Year	Malaria cases	Malaria deaths	
1925	Data not	1,298	1939	6,251	43	
1926	available Do.	1,342	1940	8,933	29	
1934	32,517	193	1941	9,001	30	
1935	133,267	167	1951	12,969	91	
1936	17,697	113	1952	17,341	75	
1937	9,968	78	1953	13,773	96	
1938	5,750	50	1954	9,454	105	

Table No. 2

Under these circumstances, the Madras Corporation agreed to join in the National Malaria Control Programme to secure total eradication of Malaria from the City.





Malariometric surveys were carried out after the implementation of the National Malaria Control Programme in the City during the year 1955, 1956 and 1957. 7,170 children for spleen enlargement and 1,273 blood smears were examined during 1957 as against 2,643 children and 421 blood smears in 1956 and 5,042 children and 983 smears in 1955. The systematic spraying of residual insecticides has brought about a remarkable drop in the spleen and parasite rates as shown below :--

1		Over a	ll spleen	rate	Over all parasite rate			
AES	Year	Number of children examined	found	rate	Number of smears examined	found	rate	
Spraye	d Area :	1					200	
	1955	5,042	471	9.3	983	58	5:9	
	1956	. 2,643	192	7.3	421	16	3.8	
	1957	7,170	230	3.2	1,273	19	1.2	
Unspra	yed Area:	pide. S2EL D						
	1955	and 2 10	ancige		e y na hili	0	di Suint	
	1956	5,766	265	4.6	861	19	2.2	
	1957	531	29	5.5		A bru	al.L.bns	

Ta	0	 0	
		 •••	-

The cumulative spleen rate in the sprayed area which was as much as  $9\cdot3\%$  and parasite rate  $5\cdot9\%$  in 1955 have now come down to  $3\cdot2\%$  and  $1\cdot5\%$  respectively in 1957 as shown in Graph No. II. The decline in the spleen rates and the parasite rates has been recorded in all the divisions sprayed as shown below :—

		Pre-o	opera	tion		1	Post-op	peration	1	
No.	Name of the	1955			1956			1957		
	Division	Spleen		Para- site	Spleen		Para- site	Spleen		Para- site
Division	edium spreizs	Rate %	AES	Rate %	Rate %	AES	Rate %	Rate %	AES	Rate %
7	Basin Bridge	17.0	1.4	5.5	10.3	1.5	3.6	2.0	1.5	1.0
8	Peddunaickenpet	7.9	1.4	7.4	6.6	1.6	4.2	2.7	1.5	1.6
9	Seven Wells	8.4	1.5	6.9	5.4	1.3	2.4	3.7	1.3	0.9
10	Ammen Koil	10.6	1.4	4.7	7.5	1.6	3.9	3.6	1.5	1.6
11	Muthialpet	9.7	1.5	7.3	6.0	1.6	4.9	2.8	1.3	1.9
12	Harbour	9.7	1.5	5.2	6.0	1.5	2.9	3.3	1.6	1.2
13	Kachaleeswarar	8.7	1.6	5.6	4.8	1.6	2.0	3.4	1.5	2.0
14	Kothawal Bazaar	8.2	1.4	7.5	4.9	1.6	3.8	1.7	1.5	2.2
15	Sowcarpet	9.5	1.4	7.3	5.8	1.8	3.4	4.5	1.5	1.0
16	Trevelyan Basin	6.4	1.3	4.7	4.9	1.5	1.2	4.8	1.4	1.2
27	Edapalayan	·			10.3	1.6	4.3	2.9	1.4	2.0
28	Park Town				7.3	1.7	2.5	2.9	1.8	1.3

Table No. 4

#### Degree of spleen enlargement :--

The degree of spleen enlargement or the size of the spleen mass has also been determined along with the spleen survey. A table consolidating the determination of the spleen mass for the last 3 years is given below :

Year		Spleen Size							
	(1)	(2)	(3)	(4)	(5)	Total	AES		
1955	180	146	9			335	1.5		
1956	206	225	14	su		445	1.6		
1957	120	107	3 .0	843	2	230	1.5		

Tol	hI	0	No	•	5
La			744		0

Children with enlarged spleens found in 1957 show a remarkable reduction in all sizes. Out of 230 children found with spleen enlargement during 1957, 120 children were having spleens of size one as against 206 in 1956 and 180 in 1955. The number of children with size two spleens were 107 and with size three spleens were 3 in 1957 against 225 and 14 in 1956 and 146 and 9 in 1955. The average enlarged spleen in all the three years however remain almost the same as it will take time for the general reduction in the spleen size. Children having spleens of sizes 4 and 5 have so far not been recorded in the City.

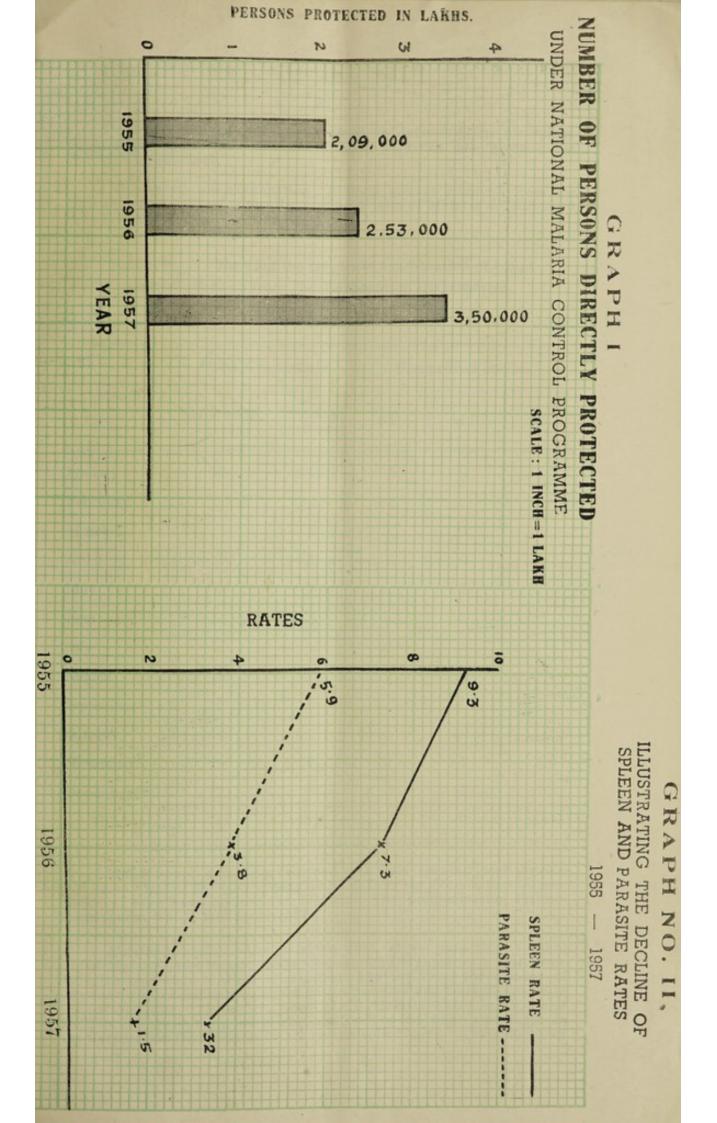
#### Parasite Survey :--

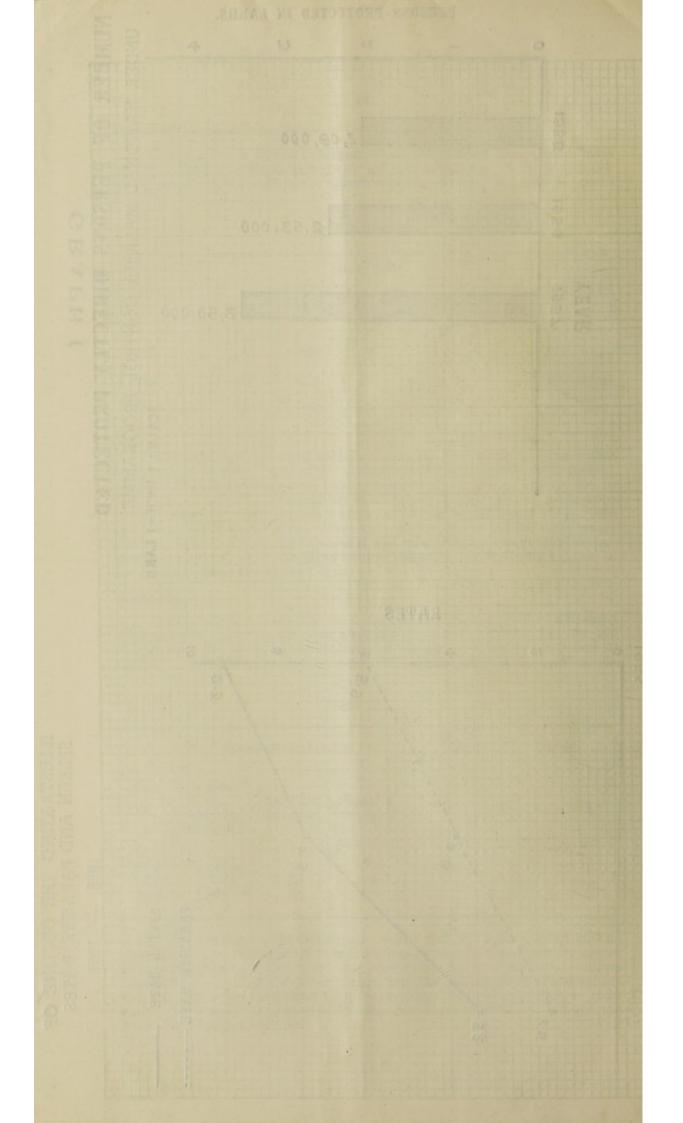
1,273 blood smears prepared on the accepted method of making a thick and thin smear on the same slide were taken in 1957 as against 944 in 1956 and 983 in 1955 from children of the age group between 2 and 10 years.

S Sile Rate	Bloo	Blood Examination Plasmodium speci							
Year	Number of smears examined	Number positive	Parasite index	BT	MT	Q			
1955 1956 1957	983 944 1,273	58 32 19	5·9 3·4 1·5	21 8 7	47 23 12				

Table No. 6

The cumulative parasite rate works out to 1.5 per cent in 1957 as against 3.4 % in 1956 and 5.9% in 1955. It may also be seen from the above data that MT was found to be the predominating species of Plasmodium followed by BT in all the three years but the reduction of Plasmodium vivax is slow when compared with Plasmodium falciparum which is indicative of the static condition of Malaria prevalent in the City. No quartan parasites were encountered.





The details of the children examined in each division for spleen enlargement, spleen size and for malaria parasites are given in the Statistics Supplement.

The details of examination of blood smears received from the various dispensaries of clinically diagnosed cases of Malaria are furnished below month wise for the year 1957.

# Table No. 7.Showing the results of examination of bloodsmears received from the Corporation Dispensaries.

1000 -	1		Teries	100 10	Jake It	Disponenty			
	18,313	Blood Ex	amination	Plast	Plasmodium Species				
Month		mbers of mears	Numbers positive	BT	МТ	Q			
January	30,115	20	4.4	3	_1	reen Wells			
February	28 25		an arta		0	inveimen Basi			
March		7	1		1				
April	2,15 2.00	5	2	1,000 0.51	2	letor.			
May		8	2		2				
June	1	1	bergeraa ale	1	1201-0-1 TC	noimb			
July		1	tore mayne	20 0 0 00 000	a or	alerred Stor			
August	(maine)	6	ad Isois	1		200			
September	1.2.0 10	3	odi suin mi	ha densus	comparall	boye, the			
October	6.10 200 6.100 E	1 owo	180 100/802	diavanqu en	in Les shi	NU DIANT DE			
November		9	in chain of	estolica y	1	esides su			
December	ni. bista	17	2	anilaigen	2				
Total		78	13	4	9				

1957

Malaria cases have been recorded both from sprayed and unsprayed areas. Out of 78 blood smears received from the Corporation Dispensaries, 13 were found positive for Malaria. The predominating Plasmodium species was P. falciparum (MT).

Malaria Morbidity:—Up to about 1955, there were from 6,000 to 17,000 Malaria cases treated in the Corporation Dispensaries a year. Since 1955, the year when N.M.C.P. was instituted in the City, the number of cases show a general decline in the unsprayed area and marked decline in the sprayed area. There were about 2,650 Malaria cases in 1956 and 2,402 in 1957 which work out to 2.5% and 2.3% of the total attendance in the Corporation Dispensaries in the uncontrolled area. The number of

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Malaria cases treated in six Dispensaries in the sprayed area from 1955 is expressed below.

	1955			17.52	1956	adr		1957			
Dispensaries in the controlled area	Total atten- dance	Malaria cases treated	Morbi- dity Rate	Total atten- dance	Malaria cases treated	Morbi- dity Rate	Total atten- dance	Malaria cases treated	Morbi dity Rate		
Mafus Khan Dispensary	41,544	31	0.01	39,757	4	0.001	37,874	2	0.001		
Mannady Dis- pensary	22,341	314	1.4	21,443	43	2.2	18,313	52	0-001		
Mint Dispen- sary	64,063	355	0.55	58,780	172	0.3	53,597	117	0.01		
Muthialpet Dispensary	65,405	300	0 005	86,636	424	0.48	47,276	-	-		
Seven Wells Dispensary	_	- 5	1	13,837	107	0.57	30,275	97	0.32		
Trevelyan Basin Dispensary	-	-	-	33,176	149	0.45	28,234	51	0.18		
Total	1,93,353	1,000	0.51	2,53,629	899	0.35	2,15,569	239	0.09		

Ta	bl	e	N	0.	8.
		~		~.	~ •

From this quantitative evidence, it is inferred that there is a marked reduction of malariousness in the sprayed area. The malaria morbidy ranged from 0.5% in 1955 to 0.09% in 1957 as against the average annual malaria morbidy rate of 4.0% before spraying.

Entomological findings:—Besides the epidemological data given above, the comparative density of mosquitoes in the sprayed and the contrast areas have been used in determining the duration of the toxic effects of the residual insecticides sprayed. Regular daily collections of adult mosquitoes are made in 2 human dwellings, 1 mixed dwelling and a cattle shed besides supplementary catches in each of the three divisions in the sprayed area and three divisions in the contrast area.

The following anopheline species were individuated in the sprayed and contrast areas in 1957.

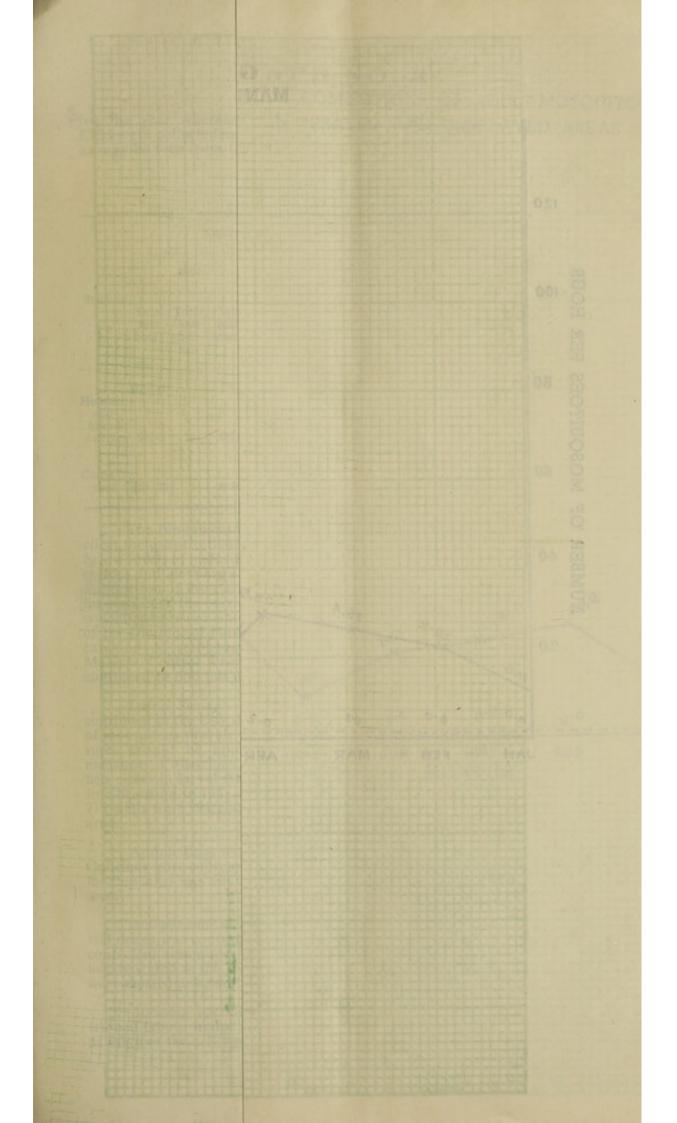
#### A. subpictus

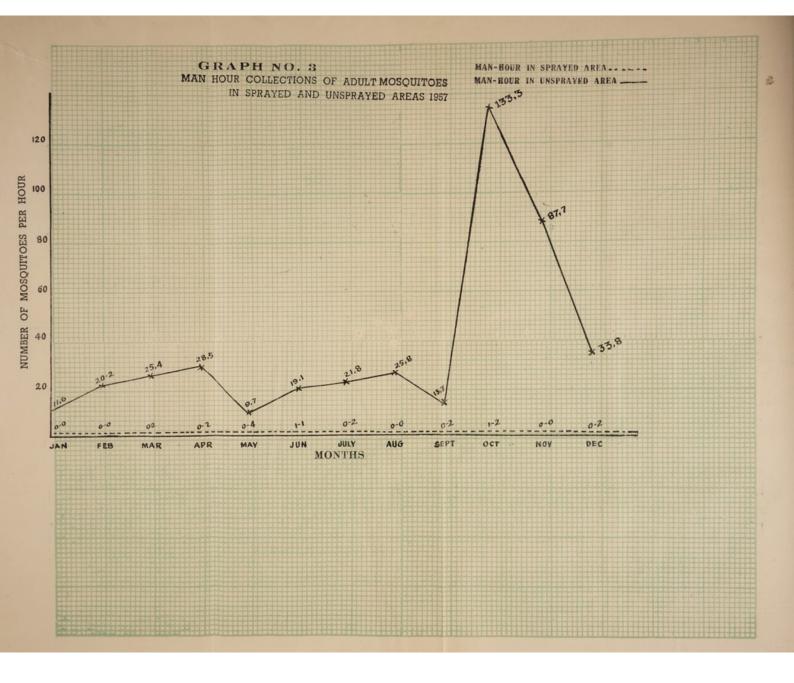
A. vagus

A. subpictus or vagus male

502 hours have been spent for adult collections in human and mixed dwellings and 168 hours 20 minutes in cattle sheds in the sprayed area and 571 hours 30 minutes in human and mixed dwellings and 106 hours 10 minutes in cattle sheds in contrast area in 1957.

The prevailing incidence of the anopheline species in the controlled and the contrast areas in terms of human hours is expressed in a tabular from appended and in the Graph No. 3. In the sprayed area, the absence of anophelines is very striking during the year 1957 except 21 Anophelines





for the year whereas in the contrast area during the same period, 1,825 were collected in human and mixed dwellings and 196 in cattle sheds as may be seen from the tabular statement given below :--

	Controlled Area				Contrast Area							
	1957			1956		1957		1956				
Stations	Total man hours	Total Ano- pheli- nes	Ten man hours									
Human and Mixed	н. м			н. м,		120	н. м	1936	12.112	н. м.	ing c	(enqu
dwelling	502-0	16	0'31	535-23	3	0.06	571-30	1825	31.93	652-45	1731	26.52
Cattle shed	168-20	5	0.29	205-47	1	0.05	106-10	196	18.47	163-30	447	2 <b>7</b> ·33

Table No 9.

The fundamental requirement for the prevention of Malaria is to effect the quantitative reduction of malaria vector species to densities below levels of malaria transmission and prevent the contact between mosquitoes and sleeping men. It is for these reasons that adult killing by the application of insecticides is placed first for controlling Malaria. Anopheles stephensi, the carrier of urban Malaria, is totally absent in the adult collections for the whole year. Searches made by the Investigation Unit of the Director of Public Health, Madras, have also not been fruitful in catching A. stephensi thereby indicating effectiveness of the National Malaria Control Programme in the City. However searches are being continued to find out whether they have changed their resting places.

Larval Survey:—Supplemental programme of larval collection was continued in the City during the year under report to ascertion the species of mosquitoes prevalent, to identify the areas to which the control measures should be applied and to check the effectiveness of the control measures. Collections were sent to the laboratory where they were identified either in larval stage or adults. 1,694 wells were searched for Anopheline breeding in 1957 as against 241 wells in 1956 in the sprayed area and 715 wells were searched in 1957 as against 116 wells in 1956 in unsprayed area.

Anophelines were not found breeding in the controlled area where as Culicines were collected in 94 wells in 1957 and 11 wells in 1956. Anopheles stephensi was not caught in any of the wells searched in the controlled area.

Anti-parasitic measures:—Free supervised distribution of anti-malarial drugs was continued among malaria patients in all the divisions in the controlled area under report. A single dose Avloclor tablets had been administered at the spot to malaria cases. In 1957, 261 malaria patients were treated as against 550 in 1956 and 354 in 1955.

Spraying operations :- The risidual spraying was carried out by trained labour under close supervision. The inner surfaces of walls and as much of the ceilings as could be approached of human dwellings and cattle sheds were sprayed. The usual application of 1 gallon of 5% "ready to use suspension" to every 2,000 Sq. feet of superficial area of the houses was carried out to give DDT deposit of 100 mgm per Sq. Ft. During the year under report, the spraying operations were extended to the 4th Division Sanjiviroyanpet and the 5th Division Korukupet, besides the controlled area from 7th Division Basin Bridge to 16th Division Trevelyan Basin, 27th Division Edapalayam and the 28th Division Park Town. 27,026 houses were sprayed in 1957 as against 19,735 houses in 1956, an increase of 7,291 structures over that of 1956 which works out to 36.9% and 10,740 houses in 1955. The number of houses missed due to refusals or locking was 4,569 in 1957 against 5,009 in 1956. 47,920 lbs. of 75% DDT wettable powder was consumed during the year 1957 as against 42,120 lbs. in 1956 and 16,762 lbs. in 1955.

The following is the summary and analysis of the work done in spraying campaign in 1956 and 1957.

14-20 11-20 - 50- 60-10 - 12-11 20-1		1956	1957
(a) Total number of houses treated		19,735	27,026
(b) Superficial Area treated	12,	64,20,000 Sq.Ft.	15,44,32,000 Sq.Ft.
(c) Inhabitants directly protected		2,53,586	3,50,000
(d) DDT consumed Dieldrin consumed		42,120 lbs.	47,950 lbs. 667 "
(e) Man hours of labour (actual spraying time)		43,575	47,400
(f) Motor transport		3,351 Miles	6,765 Miles.
	Analys	is	
(a) Superficial area per house treated		6,407 Sq.Ft.	5,714 Sq.Ft.
AND A REAL PROPERTY AND A REAL		6,407 Sq.Ft. 10	5,714 Sq.Ft. 11
house treated (b) Inhabitants per hours		195) as against 20	hine breading in
house treated (b) Inhabitants per hours both treated and missed		10	11
<ul> <li>house treated</li> <li>(b) Inhabitants per hours both treated and missed</li> <li>(c) DDT spent per house</li> <li>(d) Man hour of labour per</li> </ul>		10 2.13 lbs	11 2.0 lbs
<ul> <li>house treated</li> <li>(b) Inhabitants per hours both treated and missed</li> <li>(c) DDT spent per house</li> <li>(d) Man hour of labour per house</li> <li>(e) Superficial area treated.</li> </ul>		10 2.13 lbs 2.2	11 2.0 lbs 1.8

Cost:—The National Malaria Control Programme has been carried out in the City in 1957 at a cost of Rs. 36,072 (excluding the pay and allowances of the staff diverted from General Malaria Section) as per details given below:—

1.	Establishment		Rs. 12,072-00
2.	Labour		Rs. 18,000-00
.3.	Contingencies		Rs. 6,000–00
	Total	t dijw	36,072-00

This works out at 10 naya paise per head per year as against 44 naya paise in India and 96 naya paise in Ceylon. Even if the pay and allowance of the diverted staff are included, the per capita expenditure does not exceed 12 naya paise.

The following supplies hav Government :	ve beer	n made	from	the Central
	1955	s a pr m en objei	1956	1957
Trucks	2		no form	15 in an endom
Power sprayer	2			City are as foll
Hand compression sprayer	12			
Stirrup-pumps	30		<del>. 43</del> 01	-Yeur
Drugs:-				
Resochin	740		310,E	Kala-azar
Nivaquine	1,000	1	_	
Avloclor	i su <del>d</del>	and bo l	0,000	It may i
Insecticides :	DDT	id Jonin	on sumo	

DDT 75% Wettable	1,39,000 Ibs.	75,422 lbs.	30,095 Ibs.
Dieldrin 50% Wettable	600 "	1000 "	400 "

The following have been spent during 1957 as compared to 1955 and 1956.

Drugs :			
Resochin	gua allana bio	740	lo palla of
Nivaquine	793	207	loefine. Thi
Avloclor	D when repains	Treadural con	925
Insecticides :			
DDT 75% Wettable	16,762	42,140	46,944
Dieldrin 50% wettable	ai on - no i	avorna the stor	567

#### Other activities :--

Experiments were conducted in the laboratory and the field to find out the effectiveness of residual insecticides against bed bugs in houses and the reported development of resistance of bed bugs to DDT in the City. The Corporation Tenements in the 12th Division Harbour, a controlled area which were infested with bugs, were sprayed with different formulations of DDT, BHC, Dieldrin and Diazinon on 11th March 1957. The bugs were daily trapped from the tenements, treated with different insecticides and kept under observation to find out their survival rates. It was noted that bugs in the controlled area have developed resistance to DDT wettable and BHC. 5% DDT solution and Dieldrin were found to be better alternatives but not very effective in giving complete relief though their residual texicity was of long duration. Diazinon, which is not a stable compound, was effective only for about 10 days.

A second series of laboratory experiments were conducted during November 1957 to find out the development of resistance of bed bugs to 75 % DDT in different strengths. It was observed that bugs get killed in higher concentration of DDT with exposure of long duration. It was necessary for more than 50 % kill to expose the bed bugs to 5 % to 10 % DDT concentration for over 4 minutes.

#### Control of Kala-azar in the City

#### Incidental to Malaria Control Programme :---

The World Health Organisation is gathering significant information on what has already been accomplished in the World in the control of Leishmaniasis either as a primary objective or incidental to anti-malaria campaigns. It has been observed that Visceral Leishmaniasis (Kala-azar) is in an endemic form in the North, Central and Southern portions of Madras City. The number of cases treated in various Hospitals of the City are as follows:—

Year	1950	1951	1952	1953	1954	1955	1956
Kala-azar	3,046	3,142	5,356	1,149	3,006	3,005	673

It may be observed that there is a marked decline in the incidence of Kala-azar cases in 1956 after the implementation of N.M.C.P.

Phlebotomus control by DDT spray is only incidental to antimalaria campaign under National Malaria Control Programme in North Madras alone. With effect from July 1955 no phlebotumus has been recorded from this area after the spraying operations.

Conclusion :- It is estimated that about 6 lakhs live in malarious areas in the City and 3,50,000 have been directly potected in 1957 under NMCP. Systematic spraying of residual insecticides have brought about a remarkable drop in spleen and parasite rates which are an exact indication of the extent of infection. Good results can also be seen from the fact that Malaria attendance in the Corporation dispensaries have shown a marked decline. This is a good achievement but it must be borne in mind that there are still about 2,50,000 who remain unprotected and that only one round of DDT residual spraying is being carried out instead of the prescribed two during the malaria transmission as the present strength of the staff sanctioned for NMCP is quite inadequate for complete coverage. There is also an urgent need to accelerate the progress of operation for eradicating malaria through out the City as in the country before the threatened development of resistance in mosquitoes to residual insecticides takes place. Under these circumstances it has been dicided with the approval of the Director of Public Health, Madras to extend the area of operations to as many divisions as possible in the City with one round of DDT residual spraying subject to the condition that anti-larvae measures against malaria vectors are intensified. The Council has approved the extension of the NMCP to cover the entire malarious area and the appointment of an adequate minimum staff is awaited.

## the trade remains in the hor OITATIONAS and so long as the since

Dr. B. V. Sundarababu, M.B.B.S., D.P.H. (Cal), is the Health Officer. The Health Officer is assisted by four Assistant Health Officers.

Dr. P. V. Balakrishna Marar, L M. & S., B.S.Sc.

Dr. A. Ramachandra Rao, M.B.B.S., B.S.Sc.

Dr. I. Gopalakrishnan, B.A., M.B.B.S., B.S.Sc.

Dr. N. Dhakshinamurthy, M.B.B.S., B.S.Sc.

Each Asistant Health Officer was in-charge of a range comprising of ten and more divisions.

There were 61 Sanitary Inspectors in-charge of 50 divisions of the City during the year.

There were 5 Food Inspectors to take samples under the provisions of the Prevention of Food Adulteration Act. There were also 5 Malaria Supervisors in-charge of the Anti-Mosquito operations.

## 1. FOOD SANITATION

#### Hotel Sanitation.

1. No. of renewal applications received for food	. No.
handling establishments under section 279	2,555
2. No. recommended	2,257
3. No. refused	296
4. No. of new applications under section 279	107
5. No. recommended	90
6. No. refused based and aldu'l 8 and and T	17 fankai
7. No. of Coffee Hotels with Meals Section	175
8. No. of Coffee Hotels without Meals Section	333
9. No. of Eating Houses only	622
10. No. of Tea Clubs	238
11. No. of Tea Stalls, Tea Shops or Tea Stands	A 837
12. No. of Canteens attached to firms, offices etc.	09 157
13. No. of Mobile Canteens	5
14. No. of Lodging Houses without boarding registered under the Public Health Act	oM .+
15. No. of Lodging Houses with boarding registered as well as licensed under the City Municipal Act	61

#### Food Adulteration :--

There were 5 Food Inspectors to take samples under the provisions of the Prevention of Food Adulteration Act. They were in charge of 10 divisions each respectively. The samples consisted of milk, butter, ghee, gingelly oil, tea, ghee substitutes, termeric, arrowroot, honey and other articles. 6,190 samples were analysed under the Prevention of Food Adulteration Act. 4,178 samples were genuine and the remaining 2,012 samples were found to be adulterated.

Prevention of adulteration of milk is by far the most important duty from Public Health point of view. 44.5 per cent of the milk samples were adulterated in 1957 against 42.1% in 1956. Though a record number of milk samples were analysed during the year under report, adulteration of milk has not shown the anticipated decrease in 1957. So long as the trade remains in the hands of small vendors and so long as the fines imposed by the Magistrates are not deterrent, adulteration of milk can not record any appreciable decline.

#### Milk Sanitation

1.	No. of applications received for milk trade under	(70)
	section 299	679
2.	No. recommended	558
3.	No. refused	121
4.	No. of licensed milk men	985
5.	No. of licences renewed for old milk depots other	
	than those of Madras Co-operative Milk Supply Union	156
182		150
6.	No. of milk depots of the Madras Co-operative Milk Supply Union of which licences are renewed.	56
7.	No. of new milk depots opened by the Union	
	during the year	7
8.	No. of unlicenced milk depots	32
9.	No. of notices issued in respect of item 8	32
10.	No. prosecuted for non-compliance	28
11.	No. improved and made fit for licensing	7
12.	No. closed as a result of action taken	9

#### **Market Sanitation**

Markets :-- There were 8 Public Markets and 43 Private Markets in the City of Madras.

Public Markets :-- The eight public markets were maintained by the Corporation at the following places :--

- 1. Smithfield Market, Rotlers Street, Choolai, 17th Division.
- 2. Ayanavaram Daily Market, Palavayal Street, 21st Division.
- 3. Poonamallee High Road, junction of McNichols Road and Poonamallee High Road, 22-A Divison.
- 4. Moore Market, Poonamallee High Road, 26th Division.
- 5. Mallaya Market, Wall Tax Road, 27th Division.
- 6. Fruit Market, Nethaji Subash Chandra Bose Road, 28th Division.
- 7. (a) Corporation Vegetable Market, Sir Theyagaraya Road, 36th Division.
  - (b) Corporation Mutton Market, Sir Theyagaraya Road, 36th Division.
- 8. Razaack Market, Bazaar Road, 47th Division.

Private Markets :--There were 43 private markets in the City. These markets were periodically inspected by the divisional sanitary staff to ensure their sanitary up keep and to prevent the sale of food stuffs unfit for human consumption. Before issuing the annual licences to the owners of various markets, they were required to attend the annual repairs, lime washing and repainting works. They were also required to provide indication boards to the fish stalls and make special arrangements for keeping these stalls clean and hygienic. This was done in view of the attitude of the Government Fisheries Department for giving an impetus to the sale of fish in the City.

The private mutton stalls and pork stalls were periodically inspected to enforce their proper maintenance and to prevent the sale of unauthorised meat.

S.No.	Div. No.	Location
I Street.	nedal kaon	New Washermanpet Market, 322, T. H. Road, New Washermanpet.
2,00	nic Hash R	Tondiarpet Market, Thandavaraya Gramani Street.
3	2	Kalmandapam Market, 12, Kalmandapam Road.
4	3	Royapuram Market, 16, Mannarswamy Koil Street.
5	4	Old Washermanpet Market, 5/6, Venkatakrishnan Street.
6	4	Narasier Market, 82/82, Narasier Street.
7	6	M. G. Market, 15, Erukancheri High Road.
8	6	Selva Vinayagar Market, 5, Selva Vinayagar Koil Street.
9	7	Kondithope Market, 32, Peddu Naicken Street.
10	9	Seven Wells Market, 111, Govindappa Naicken Street.
11	11	McDonald Market, 67, Sengalaneer Pillaiyar Koil Street.
12	11	Mallaya Market, 87, Mannady Street.
13	12	Olakkadai Market, 180, Angappa Naicken Street.
14	14	Kothawal Market (whole-sale), 1, Adiappa Naicken Street.
15	15	Chengam Bazaar Market, 83/84, Nattu Pillaiyar Koil Street.
16	17-A	Choolai Market, 37, Vijaya Vigneswarar Koil Street.
17	18	Demellows Road Market, 133, Demellows Road, Pulianthope.
18	20-A	Abdul Khadar Market, 17, Madhavaram High Road.
19	20-B	V. B. Chetty Market, 47, Market Street.
20	20-B	Jamalio Market, 115, Market Street.
21	22-B	Private Market, Aminjikarai, 68, P. H. Road.
22	24	Kosapet Market, 3, Pudu Street.
23	25	Rajarathnam Market, 27, Purasawakkam High Road.
. 24	26	Ellamman Koil Devasthanam Market, Veeraswamy Pillai Street.
25	28	K. A. C. Charities Market, 314, Wall Tax Road.
26	30	Chintadripet Private Market, 17, Arunachala Naic- ken Street.
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S.No.	Div. No.	attitude of the Governmoitsod eries Department for
. 27	31	Connemara Market, 30, Harris Road.
28	add 32vorg	Egmore Market, 92, Egmore High Road.
29	33	Thousand Lights Market, 41/46, Mount Road.
30	34	Kodambakkam Market, 54, Kodambakkam High Road.
bar 31	35-A	Market at 140, Arcot Road, Kodambakkam.
32	39	Moosa Sait Market, 90, Venkatesa Naicken Street.
33	40	New Janda Market, 291, Triplicane High Road.
34	40	Shaik Adam Market, 730, Triplicane High Road.
.100 35 li	42	Zam Bazaar Market, 421, Pycrofts Road.
36	43	Sultan Market, Royapettah High Road.
37	43	Meersahibpet Market, Venkatachala Mudali Street.
38	44	Market at 80, Bazaar Road.
39	44	Market at 75, Royapettah High Road.
40	46	Sri Balasubramaniaswamy and Alaiamman Devas- thanam Market, 11-A, Eldams Road.
41	46-B	Azeez Market, 70, Mount Road, Teynampet.
42	47-B	Karaneeswarar Koil Market, 6/7, Jones Road, Saidapet.
43	50-A	Mandavalli Market, 14/65, Mandavalli Street.

Destruction of the unwholesome food stuffs:—The divisional staff during their inspection seized unwholesome and noxious food stuffs and had them destroyed to prevent their consumption by the people in the City. This consisted of rotten vegetables, decayed fruits, stale edibles and food rendered unfit for human consumption by dust and flies setting on them. The raided food stuffs were sprinkled with disinfectants and buried in the dumping grounds.

Action was also taken to prevent unauthorised vending of food stuffs by prosecuting the offenders in this behalf.

#### Slaughter Houses

The Corporation is having 5 Slaughter Houses—2 for sheep and goats (one at Perambur and the other at Saidapet), one Cattle Slaughter House at Perambur, one Pig Slaughter House at Perambur and another at Saidapet.

For the Slaughter Houses there is a Superintendent and Asst. Superintendent and a Sanitary Inspector. The meat inspection is done by duly qualified Veterinary Surgeons. The Ante-and Post-Mortem examinations are done and the carcasses are stamped with indetrable ink before passing out as fit for human consumption.

Kinds of animals slaughtered	No. of animals brought	No. con- demned after ante- mortem	No. Actually slaugh-	No. of ca or port carcasses demned Post-Mo examin	ion of s con- l after ortem	No. of organs condemned
46,901 the	for slaugh- tering	examina- tion	tered.	Car- casses whole	Por- tion	No. o conde
Sheep and goats	471,847	1,462	470,385	6	6. 1 .d	8,935
Cattle	26,904	Nil	26,904	aud 4	455	8,295
Pigs	858	Nil	858	2	Nil	437

The carcasses are transported in motor vans from the Slaughter Houses to the Markets, and the revenue from the transport of the carcasses amounted to Rs. 4,629.96 nP.

The meat inspection certificate fee collected during the year for the export of beef was Rs. 3,645.

To eradicate pig nuisance in the City, raids were conducted to catch stray pigs. During the year, 334 stray pigs were caught from various parts of the City and Rs. 830.58 nP. was realised from the owners by way of licence fees, pig catching reward amounts and feeding charges, while releasing the pigs.

Facilities have been afforded in the Slaughter Houses for post graduate students of the Madras Veterinary College for studies connected with parasitology and meat inspection work. Regional Sterility Officer and his assistants have also been given the necessary facilities for the study of sterility in animals by way of ante-mortem and post-mortem examination of animals brought for slaughter.

Students of the various other educational institutions in the City and in the mofussil visiting the Slaughter Houses were given all facilities to study the work of the Slaughter Houses and the Meat Inspection.

Valuable and rare specimens have been preserved as exhibits for students from various Medical and Veterinary Institutions visiting the Slaughter Houses.

Meat Inspection :--

1.	No. of Private Mutton Stalls at the beginning the year	of 	133
2.	No. of Mutton Stalls opened during the year		7
3.	an an it it is the heatinging of the ware		44
4.	No. of Beef Stalls opened during the year	10.00	50.10
	No. of Pork Stalls at the beginning of the year		Nil
	No. of Pork Stalls opened during the year		Nil
	No. of unstamped carcasses seized		53
	No. of cases of illicit slaughter detected		15

# 2. ENVIRONMENTAL SANITATION

Housing	:	36516510.08	
	1.	No. of houses other than huts in the City	1,02,185
	2.	No. of houses used for dwelling purposes	88,848
	3.	No. of houses used for purposes other than dwelling	13,337
	4.	No. of huts	46,902
	5.	No. of building applications received from the Works Department	519
	6.	No. recommended for sanction in item No. 5	434
	7.	No. of building applications recommended for refusal for sanitary reasons	90
	8.	No. of tenements built prior to 1-1-1957	110
and gund	9.	No. of tenements built prior to 1-1-1957 and brought under occupation in 1957	43
1	0.	No. of tenements built and brought under occupation in 1957	120
1	11.	No. of tenements under construction at the end of the year 1957	26

## House Inspection :--

1.	No of houses inspected as a routine measure .		26,548	
2.	No. of houses inspected on complaints made .		1,468	
3.	Average No. of houses inspected per mensem .	1112	2,334.7	
4.	No. of houses found untenanted .		161	
5.	protected water supply	of 	893	
6.	No. of houses found defective for want overtilation	of 5	1,063	
7.	No. of houses found defective for want of proper drainage arrangement	er 	1,441	
8.	No. of houses found defective otherwise .		2,664	
9.	No. of notices issued for rectification of defects		4,059	
10.	No. prosecuted for non-compliance .		498	
11.	No. of houses repaired as a result of actio taken	n 	3,623	

### Latrine accommodation :--

1.	No. of houses found without any latrine .	÷. 3	1629
2.	No. of notices issued in respect of item No. 1 .		339
3.	No. of houses provided with latrine accommodation as the result of action taken	i-	223

	4.	No. of houses found defective for wa adequate latrine accommodation	ant of	
				533
	5.	No. of notices issued in respect of item No.	. 4	435
	6.	No. of houses provided with additional l	atrina	
		accommodation as a result of action take	en	284
	17.	No. of houses in sewered areas without F.C.	Ls	1,521
	8.	No. of notices issued for convention of mas	onary	
		latrines into F.O.Ls.	····	189
	9.	No. of houses wherein the masonary la	trines	
		were converted into F.O.Ls. as a re-	sult of	2
		action taken		107
Cess Po	ols :	Conton Smith Nagar		
		McNichols Road, Chetpet	32	
20	1.	No. of houses with cess pools		3,568
	2	No. of houses without cess pools	34	2
				2,761
	3.	No. of notices issued in respect of item No.	2 ***	113
	4.	No. of houses provided with cess pools as a	result	-
	ibul	of action taken	proyemen	113
	5.	No. of notices issued in respect of inade	quate	
				25
SOULCE	6.	No. of houses provided with enlarged cess	pools	
		as a result of action taken		27
		er supplied is appended to this report.		

Home for the Homeless :— The Madras City Corporation is at present maintaining five houses for the homeless, at the various parts of the City as mentioned below. In these houses, the homeless people coming to the City are temporarily accommodated for a period of stay not exceeding two months; but in practice considerable difficulty was experienced in evicting the inmates after the stipulated period of their temporary stay in these houses.

S.	No.	Dn. No.	Location	Accommodation Available for persons	Strength persons
ni	1 <sup>III</sup>	anidatos	Old Jail Street	90	90
	2	16	Wall Tax Road	100	100
	3	26	Behind the Zoo	160	160
	4	29	Ritchie Street	. 175	175
10	5	43	Gajapathy Lala Street	164 lo 85 gast i	01 b 85 was

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#### to may to Dhobikhanas actual to ..... 4

The Corporation maintained the following Dhobikhanas in the various parts of the City :

S. No.	Div. No.	Location	No. of strength
1	1	Butchammal St. New Washermanpet	40
2	3	Robinson Park	62
3	21	Ayanavaram	10
4	24	Conron Smith Nagar	52
5	33	McNichols Road, Chetpet	133
6	34	Pillaiyar Koil Street	36
7	44	Appaswamy Koil Street	14

Improvements were carried out to the Dhobikhanas including lime washing and minor repairs.

Water Supply.—The Water Works at Kilpauk and Infilteration Gallery Wells at Sembiam and Saidapet continued to be the main source of protected water supply to the City. Report of the Water Analyst in the quality of water supplied is appended to this report.

Slum dwellers in the extended areas had their supply of protected water through lorries maintained by the Water Works Department.

#### Public fountains :

Public fountains		5,253
Bathing fountains		150
Cattle troughs		51
Over head tanks including masonary	tanks	69

Swimming Pools.—The Corporation maintained 2 Swimming Baths —one at Peoples Park, adjacent to My Lady's Garden and another at the Marina Beach. Instructors are posted there for coaching up in swimming.

Conservancy.—Collection and disposal of the Rubbish, Sewage and Conservancy are under the Conservancy Department.

Sewers and F.O.Ls.—At the beginning of the year the City was sewered to a length of 431.05 miles. During the year, 13.20 miles of sewers were laid in the areas detailed as follows:

S. No.	Name of the Area	Length of Sewers laid
1	Tondiarpet	4,042
2	Kodungaiyur	388
¥23	Perambur and to	7,095
4	Ekangipuram	10,342
5	Purasawakkam	17,557
6	Chetpet	859
7	Shenoy Nagar	12,886
8	Greames Road	2,243
9	Ice House	3,120
10	North Mylapore	2,002
11	South Mylapore	1,582
12	T. Nagar	5,377
13	Adayar Adayar	1,615
	. Total .	69,708 ft. or 13·20 mile

Statement showing the length of Sewer laid in 1957.

Health Education.—Inculcation of Public Health ideas was carried on by talks and film shows by the Health Staff. The subjects dealt with in the course of the propaganda were on diseases like Malaria, Small Pox, Cholera, Typhoid, Tuberculosis, Leprosy and general subjects like food, nutrition, environmental sanitation and personal and domestic hygiene.

#### 3. INDUSTRIAL SANITATION-TRADES-LICENCING ETC.,

#### 1. Offensive Trades :

unito ins

1.	No. of renewal applications received for old offensive trades (Sec. 287)	9,763
2.	No. of applications recommended	8,230
	No. of applications refused	1,533
	No. of applications pending	122
	No. of new applications received for offen- sive trades (Sec. 287)	1,255
6	No of new applications recommended	581.

7.	No. refused for sanitary reasons othe the prohibition under Public Healt	
. 8.	No. refused in view of the prohibition the Public Health Act.	n under 596
(1909.	No. of appeals preferred by the pa the Standing Committee.	rties to 268
10.	(a) No. of appeals allowed by the S.C.	186
	(b) No. of appeals rejected by the S.C.	82
88611.	No. of references made to the Counc	il 146
2012.	No. of cases in which the Council returns the decision of the Standing Com	
13.	No. of cases in which the Council	upheld 124
17,557	the decision of the S.C.	5 Purus
eza <b>14.</b>	No. in which the Council's decision given effect to.	on was 5
08 15.	Nos. in which the Government instr	uctions 136
	or orders were sought in resp Council's decisions.	ect of
00 16.	received.	
2,002		
. Miscell	laneous:	
1,377	No. of Laundries	
2.	No. of Hair Dressing Saloons	1.135
3.	No. of Sweet Meat shops	164
4.	No. of Firewood Depots	497
olim 005.	No. of Charcoal Depots	283
6.	No. of Charcoal and Firewood Depo	ts 422
T. cerrie	No. of Aerated Water Factories	65

#### 4. SCHOOL SANITATION

There were 293 Corporation Schools in the City and the average attendance in these schools were 12,511 boys and 16,397 girls. Defects in the School Buildings with particular reference to Latrines, Play Grounds facilities and Water Supply were noticed and necessary steps were taken for remedying them.

During the year 1957-58 four Medical Inspectors and three Medical Inspectresses continued to attend to the medical inspection of children in the Corporation Schools. Up to December 1957, the medical inspection was not in any way regular as almost all the Medical Inspectors were absorbed for epidemic work. Hence they had to work strenously as the compliment of the staff was not sufficient to cope up with the increase in work. The need for additional staff was keenly felt and a proposal to appoint honorary staff or regular Medical Inspectors is under consideration. Out of 293 schools in the City, only 97 schools were visited by the medical inspection staff during the year. There were 13,950 boys and 18,089 girls in the 97 schools examined. The average attendance in the schools was 12,511 boys and 16,397 girls. 11,511 boys and 13,544 girls were examined during the year, the total being 25,055.

. Out of these 3,559 boys and 3,596 girls were entrants while 7,952 boys and 7,948 girls were regulars. 3,900 boys *i.e.*, 33.87% and 5,968 girls *i.e.*, 44.063% were defective and needed treatment.

Personal Hygiene :--607 boys (5.2557%) and 96 girls (0.7088%) were dirty in their person and clothing. Instructions on personal hygiene was imparted to them. Personal hygiene was also taught in the classes on the advice of the medical inspection staff.

Minor Ailments: -229 boys (2.755%) and 125 boys(0.922%) had dental and oral complaints and 1,431 had stomatitis and were treated with benefit. 88 children had their earies tooth extracted. 1,209 children had enlarged Tonsils and 63 children had their tonsils removed by operation. Others underwent treatment at the school. 17 children with defective vision had their vision corrected by glasses. 194 having diseases of the ear were treated at the school. 3 boys and 7 girls were defective in hearing and were provided with seats near the teachers so as to be within the range of their hearing.

Circulatory and Respiratory Diseases :--46 boys (0.4000%) and 339 girls (2.5086%) had defects relating to heart and blood. 305 children having anaemia improved by treatment. 5 children had enlarged spleen due to Malaria and were suitably treated.

Diseases of Bones and Joints :- 490 children had deformities of chest due to rickets in childhood and were suitably treated.

Infectious and Contagious Diseases :--606 boys (5.2722%) and 1,078 girls (7.9772%) had contagious and infectious diseases. The coresponding percentages for the previous year being 5.9229% and 9.1788% respectively. 130 children having signs and symptoms of Hanson disease in early stages were treated at the Corporation Skin and Leprosy Clinics. Good improvements were noticed in them.

General Preventive Work :- The Medical Inspection staff revaccinated 4,228 against Small-pox and inoculated 10,000 against Cholera during the time of epidemic and during their respective inspection in addition to the work done by the divisional vaccination staff.

Other Diseases or Defetcs :- 666 children were having defects not maintained under the above heads. They were suitably treated.

h-11

Medical Treatment :---2,633 boys and 4,283 girls were treated at the school. 229 boys and 614 girls were treated at the Corporation Dispensaries for ailments that could not be attended to at the school. 950 children were sent to various Government Hospitals for receiving attention to some of the more serious ailments. 100 children were sent to Government Opthalmic Hospital.

*Re-Inspection* :---235 re-visits to the schools were paid after the routine inspection for treatment of the defects. 15,725' boys and girls were re-examined during these visits.

Co-operation of parents and teachers :--791 parents of children were present in the school at the inspection and treatment of their children. Adequate arrangements were made at the premises for the treatment of the ailing and good results were obtained.

School Sanitation :- Defects in the school buildings with particular reference to Latrines, Playground facilities and water supply were noticed and suggestions made to the respective departments for remedying them.

Mid-Day Meals: -26,784 children in 293 schools situated in poor localities were provided with mid-day meals on all five working days. The Medical Inspecters supervised the arrangements made for the distribution of food. In addition, to this, in 13 feeder schools *i.e.*, nursery schools, children were given congee (fried rice powder mixed with milk and brown sugar) in the mornings.

To relieve the monotony of daily rice and sambar (thanks to the inspiring guidance of our ever energetic Worshipful Mayor Srimathi, Tara Cherian) the menu has been changed as detailed below, which, while slightly increasing the nutritional value, has not resulted in any increase in cost.

- 1. Mondays: Rice and sambar as is being done now.
- 2. Tuesdays: Tamarind bath and vegetable koottu.

3. Wednesdays: Curd bath and pickles or pachadi.

- 4. Thursdays: Sambar and rice.
- 5. Fridays: (For Hindu & Christian children) Rice or wheat kadambam (wheat to be broken, not fine and prepared like uppumavu with five kinds of vegetables.)
- 6. Saturdays: (For Muslim Children) Do.

Further, the Worshipful Mayor is finding out methods for quicker and cheaper cooking so that fuel consumption could be economised.

Milk := -67,336 children were given 101,720 lbs. of skimmed milk being received from various voluntary organisations during the school year. Our most sincere thanks are due to such organisations.

Health Education: 122 lectures and 158 talks were arranged in the schools for the benefit of the children. The total attendance was 8,646.

Medical Examination of Corporation Workers:—916 male and 95 female workers of all the departments were examined for physical fitness or inhabilidation during the year and duly certified.

## 5. PORT SANITATION

1. 498 vessels with 29,064 crew and 31,786 passengers were inspected on arrival during the year. 7 cases of Chicken-pox, 1 case of Small-pox and 1 case of suspected Cholera were landed ex. 8 vessels on arrival and suitable measures were taken to prevent the spread of these diseases. 562 cases of Influenza occured on 19 vessels, both on arrival and while in Port were either removed to the Isolation Camp or the Infectious Diseases Hospital or were kept isolated on board the ships. Necessary precautionary methods were adopted against the spread of the disease.

2. Out of 498 vessels leaving this port during the year under review only 346 vessels with 20,829 crew and 28,860 passengers were inspected at the time of departure for foreign ports. 64 cases of fever, 1 case of Syphillis, 2 cases of Measles, 2 cases of Chiken-pox and 1 case of Small Pox were detained from embarkation.

3. The personal effects of the infected crew and passengers and their contacts as well as 22 cases of imported second-hand clothing intended for free distribution were disinfected before release.

4. Bedding, clothing, etc., of 1,196 new crew were inspected and disinfected before they were taken on board.

5. Seamen's provisions of 71 vessels were inspected and 125 tins of ghee inspected and sealed before being taken on board.

6. 46 vessels were examined with regard to the Medical Stores kept on board. They were maintained according to the prescribed scales and wherever necessary suggestions were made to make good the shortage, if any.

7. Imported food stuffs were inspected at the requests of the Port Trust authorities and certain firms of importers.

8. During the year, 605 lots of food stuffs including milk powder, barley, etc., and 1 case of tobacco were inspected of which only 73 lots of food stuffs were found fit for human consumption.

9. 204 seamen trainees, seamen for continuous certificates of discharge and other candidates for employment as seamen were medically examined and certificates of fitness or otherwise issued.

10. On receipt of radio messages from the Masters of 8 vessels at sea seeking medical advice in connection with sickness on board the vessel, necessary advices were sent immediately to the Masters concerned.

11. Sanitation of the Port area was looked after by the Madras Port Trust and was maintained satisfactorily. Storage tanks of water supply of the port area were cleaned regularly and water from these sources was analyse at regular intervals. Measures were taken to rectify the defects when noticed.

12. 29 Deratisation Exemption Certificates and 22 Permits were issued at this Port.

and I case of seathing Flood And Fire Relief enses of infinenza occured on 19 wessels, both on arrival and while in Port

and on arrival derive the year. 7 cares of Chicken-post Scale of Small-pos

were either ramoved to the Isolation Camp or the Infectious Diseases Hospital or were kept solated on toard the ships. Nocessary pre-

2 Out of

1. 498 weseds with 29,204 crew and 31,786 payermers were inspec-

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S PORT SANTATION

## FLOOD RELIEF

On account of the heavy rain during the month of November 1957, almost all the slums in the low-level areas of the City were affected and more than four thousand people were rendered homeless and had to be accommodated temporarily in the Corporation Schools in the respective localities. This department also rose to the occasion to feed those homeless people between the 5th and 9th of November 1957, when all the three Midday Meals Centres worked day and night to serve 17,990 meals at an extra cost of Rs. 2,904/53, which was met from the Mayor's Flood Relief Fund.

ng milk powder, in unly 73 lots of

### FIRE RELIEF

There was one grave out break of fire on the night of 6th April 1957 at Elephant Gate Pallamcheri. 1,500 people were rendered homeless on this occasion and they were all fed for four days by this department at an extra cost of Rs. 343/25, which was also met from the Mayor's Fire Relief Fund.

General Ward.

## MEDICAL RELIEF

#### HOSPITALS Is you does burnle

(b) Patients with a total monthly income of Rs. 100/- to Rs. 150/-

The Corporation maintained, as in the previous years, one Tuberculosis Hospital at Otteri and one Infectious Diseases Hospital at Tondiarpet. The Tuberculosis Hospital continued to receive cases diagnosed at the Corporation Clinics and other institutions for institutional treatment. The Infectious Diseases Hospital continued to attend to the treatment of infectious cases occuring in the City as well as in the adjoining district of Chinglepet. The Tuberculosis Hospital was since handed over to the Government from the afternoon of 31st March, 1958.

#### Infectious Diseases Hospital, Tondiarpet

The Infectious Diseases Hospital at Tondiarpet, only of its kind in the City, continued to function satisfactorily cases of infectious diseases both from the City and from the suburb, underwent treatment in the Hospital. The year under review had an epidemic of Influenza and Cholera. There was also a considerable increase in the number of Small-pox and Chicken-pox cases. To meet the growing demand to accommodate patients during epidemics temporary sheds were also constructed. There has been a chain of infectious diseases owing to the increase in the City's population. Further, a good number of cases of infectious diseases are sent to this Hospital for treatment from the suburbs. In view of all this, it is very necessary to increase the bed strength in the Hospital as a permanent measure at least by double the present bed strength and also to increase the present staff of the Hospital in all categories.

No. of new cases treated		12,731
Total No. of cases treated	1	12,879
No. of operations (saline transfusions performed)	) litters	3,785
No. of Influenza cases treated	sionivot	2,722

#### Sri Thiruvoteeswarar Tuberculosis Hospital

## die zozao vonogranio za balla Brief Report.

Sri Thiruvoteeswarar Tuberculosis Hospital, Konnur High Road, Otteri, Madras-12, and its out-patient Department. The Tuberculosis Clinic, in Pulianthope High Road, Madras-12 are the two main institutions maintained by the Corporation of Madras for the treatment of Pulmonary Tuberculosis and are intended to serve primarily the citizens of Madras. This is the 10th year of the working of the Hospital and it continued to progress in all directions. The orginal staff of a Medical Superintendent, and an Assistant Medical Officer (both specialised in Tuberculosis) continued to be in-charge of the Hospital with a nursing staff of one Ward Sister and 8 Nurses.

The Hospital has now 78 beds (54 plus 2 Emergency indigent 22 paying beds 6'A' Class (women 4 and men 2) and 16 'B' Class beds (8 Women and 8 men). The Hospital is well equipped with a Laboratory, Operation Theatre, X-ray plant and other clinical appurtenances to treat the patients in modern accepted methods of treatment. The Hospitalisation, diet, and X-rays are free of charge for indigent patients in the General Wards whose monthly income is below Rs. 100/-. Stoppages payable by the in-patients of the Hospital as approved by the Council on 21-2-56 are as furnished overleaf.

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#### General Ward.

(a) Free treatment and diet for patients with income below Rs. 100/-.

- (b) Patients with a total monthly income of Rs. 100/- to Rs. 150/should each pay stoppage charges at Re. 1/- per diam.
- (c) Patients with a total monthly income of Rs. 151/- to 199/should each pay stoppage charges at Rs. 1/50 nP. per diam.
- (d) Patients with a total monthly income of Rs. 200/- and above should each pay stoppage charges at Rs. 2/- per diam.

#### Special Ward 'A' Class.

- (a) Stoppage charges are payable at Rs. 3/- per diam.
- (b) Diet charges are also payable at Rs. 2/- per diam only for those taking hospital diets.

#### "B' Class.

(a) Stoppage charges are payable at Re. 1/- per diam.

(b) Diet charges are also payable at Rs. 2/- per diam only for those taking hospital diets.

The total income derived from stoppages and diet charges collected from the paying patients during the year 1957:

Collection from Special Ward patients Rs. 19,111/-

General ward paying patients Rs. 850/-.

There is an Electric Lift installed at the Hospital for the convenience of the patients in the 1st and 2nd floor and it is in use since September 1955.

Number of Government Servants and their dependants admitted during the year 1957 are furnished below :---

7

(a) Central Government Servants and dependants ....

(b) Provincial Government Servants and dependants ... 4

(c) Corporation Servants and dependants ... 45

During the year, 19 patients were admitted as emergency cases with symptoms of Haemoptysis and or Sponteneous Pneumothorax.

More than 40% of the cases admitted during the year were advanced and were taken into Hospital on Public Health grounds for isolation.

The year opened with 72 patients left over from the previous year. There were 213 new admissions thus making a total of 285 patients treated for the year. The total number of discharges including 5 deaths during the year was 213 leaving 70 patients at the end of the year, 52 indigent patients and 8 Special Ward patients. The particulars of the 213 admissions are as follows:

Daily average number of patients treated during the year :--

Special Ward	16.83	Females	32.60
	69.98	rds whose nion	69.98

	(Sex Distrib	ution)	
letoT Males 1	13 Females	100 Total 21	3
A B C	Communal Dist	ribution	
Hindus 183	Muslims 1	3 Chris	tians 17 modelug
24 11 14 80	Age Distribi	ution	Much improved Improved
Age Groups	Males	Females	Total
0 to 4 years			Worse
5 to 14 years	• 1	3	Died 4
15 to 24 years	38	32	70
25 to 44 years	52 51 51	56	108
45 to 64 years	21	9	30
65 and above	ity of carbo i.e.,	at. Large major	ominor 1 Ju alies
	113	100	213

#### Classification of discharged cases

Classification of the stage of disease and results adopted here are based on the recommendation of the Tuberculosis Association of India. Out of the 213 (including 5 deaths) patients discharged during the year, 212 were tuberculosis cases and 1 was non-tuberculous case i. e., 1 lung abcess.

1. Type and stage of disease of Tuberculous cases-

a soo beweek			Stage		. of cares
Pulmonary Tuberculosis	;	I	I	III	Total
(a)	eting:	12	14	44	70
(b)		6	16	35	57
(c)		4	to 7 bet	74	85
		n - hu	-	-	
		22	37	153	212 -
		Setter	of cases	ol no	stronom 2

Out of 212 Tuberculosis cases discharged during the year, 31 patients stayed for periods less than one month. These 31 cases are therefore excluded from the results. Thus it will be seen that 70.4% of the admissions were in the advanced or III stage of the disease. 212 discharges shown above included 5 deaths of which 2 deaths only were taken into statistics and 3 deaths are out of statistics as the period of the stay of these 3 cases was less than a month. Out of statistics 31 cases and 1 Non-Tuberculous cases were excluded from the total discharges and the results of treatment of 181 cases are furnished overleaf.

48

#### 2. Results of Treatment : (181 Tuberculosis cases considered for statistics)

(noitudiStagesco2)										
	61. 18	I	00	les i	EII.	13	I sol	I	_	Total
	Ā	B	- <u>c</u>	Ad	B	C	A	B	c	
Quiscent VI ama	in in i	1		aen	2	í	1	l aub	Hin	5
Much improved	8	4	4	8	10	6	24	11	14	89
Improved	2			3	2		12	9	13	41
Stationary	1			1	1		4	8	28	43
Worse		·			'	··		years	4 1°	0 1
Died		ξ			1			ygars	41 1°	2 5 1
70	-	1	-	-	- 8	- 3	100	v <u>an</u> rs	0_24	
	12	5	4	12	15	6	41	29	57	181

Out of the 181 cases discharged, 135 cases or 73.5% had positive result of treatment. Large majority of cases i.e., over 127 out of 181, were in the advanced or III stage of the disease. Out of 33 cases in Stage II, 31 cases showed positive result of treatment i.e., over 94% had positive results and 16 cases in Stage I, 21 showed positive result of treatment i.e., 90.5% showed positive result of treatment.

#### Surgical Treatment

ibn	Tot	al No. of patients who received A. P. treatment		21	
yea lua	Tot	al No. of A.P. refills given to in-patients and out-patients.		11 (Stille 2 wSretul cess.	
	2.	Aspiration of Fluids Done for 7 pa	tients	10 times	
	3.	Aspiration of Air Done for 2 pa	tients	4 times	
	4.	No. of cases in which Pneumperitoneum was given 55 patients received.	92 Million	22 refills	
	5.	No. of cases in which initial Pneumopritoneum was given.	(a)	20	
	•	6 16 35 57	(d)		
		Medical Treatment			
1nti	bioti	cs :- 212 163 163			
	1.	Streptomycin No. of cases treated		115	
	2.	Calcium salt of Para Amino Salicylic Acid Treatment	E 212	184	
	3.	Isonicotinic Acid Hydrazide	ns We	239	
X- <i>I</i> -	tay	Work :		charges si ten into st	
2211	1	No. of Fluoroscopic Examinations done	uporte o	1812	
	2.	X-ray Skiagrams taken in the Hospital	Its of	378	

## Tubercle Bacilli:-

17. Deluxonal Insanily

110 patients had sputum positive on admission to T.T. Hospital out of 213 patients discharged. Of the 213 patients on discharge 13 were negative by smear, 61 negative by concentration and 86 negative by Culture and 43 remained positive to Tubercle Bacilli i.e., 75'1% of the discharged patients had negative sputum and were non-infectious.

Total No. of Sputum sa	amples sent for cultu	are to Pathologi	cal
Laboratory, Corporation of Ma C.S.F.			
Widal and Blood Culture	H on bolisiv gratied the H	The following	
Plural Fluid	regiative references to	at and made upp	in
Blood smear sent to Mala			
examination	millee members of		
Luouruiory rronv.			
1. Motion Routine Exam	ninations	197	
2. Urine Examinations-	-Routine	224	
Vices, II-12-37	Albumin	224	
	Sugar-qualitative	1117	
	Sugar-quantitative	510	
3. Sputum for A. F. B.	Smear	2862	
during the year 1957	Concentration	657	
	*Culture	108	
4. Blood Examintation:	Differential Counts	ibel/ 1095	
The second se	B.S.R.	1068	
	For M.P.		
"Therefore I		1068	
Complications :	Surgeons, Class II	scrvice (scrvice	
1. Effusion on A.P. sid		2	
2. Haemoptysis		8 00000	
Tolais 3. Coloured Sputum	. and the second	54 Nurses	
(aber 0 4. Diabetes		rovitybild 6	
5. Tracheo Bronchitis		7.1 Familie W	
6. Laryngitis	rddelies:	4	
	sis mehanta harW al		
8. Spontaneous Pneur	mothorax	ale Tech mala	
	eritonitis		
11. Miliary Tuberculo	sis: tun? (VI) ob	121 Other.Gra	
12. Br. Asthma		oquind 1	
13. Malaria		1	
14. Scabies		reduited 3	
15. Anaemia		nabiii O	
16. Hernia		Diddid	
* (at Corporation	Pathological Laborat	tory)	
	A CONTRACTOR OF THE OWNER		

					at shirts
17.	Deluxonal Insanity			1 Ba	Tuberch
18.	Pneumonitis imba no avitised mutura bad	111		q (1	i
19.	Pyelitis of standard els add to begrado			2017	A 212 P
20.	Epilepsy a stored to evidence beninms	· · · ·		bna	alture
21.	a second s			1	Ischart
22.	Ameorrhoea		M	Init	T
23.			Co.	. 3	aborat
	18. 19. 20. 21. 22.	<ul> <li>18. Pneumonitis</li> <li>19. Pyelitis</li> <li>20. Epilepsy</li> <li>21. Hystena</li> <li>22. Ameorrhoea</li> </ul>	18. Pneumonitis          19. Pyelitis          20. Epilepsy          21. Hystena          22. Ameorrhoea	18. Pneumonitis19. Pyelitis20. Epilepsy21. Hystena22. Ameorrhoea	18. Pneumonitis        1         19. Pyelitis        1         20. Epilepsy        1         21. Hystena        1         22. Ameorrhoea        1

The following visitors visited the Hospital during the course of the year and made appreciative references to the work done in the institution in the remarks recorded in the 'Visitors' Diary during the year 1957.

	no betisiVisit cont to Malaria Laboratory for
4.	Health Committee members of the Corporation of Madras. 10-1-1957
2.	Worshipful Mayor Sri K. N. Srinivasan, Corporation of Madras. 19-1-1957
224	Dr. T. S. Natesan, Asst. Director of Medical Services. 11–12–57
117	Sugar-qualitative

#### Showing medical personnel in Sri Thiruvoteeswarar Tuberculosis Hospital, Corporation of Madras, during the year 1957.

Culture 108	Male	Female	
1. Medical Officer (Civil Surgeon		lood Examinta	4. 81
8.5.1(grade)	1		
2. Assistant Surgeons (service salaried)	1		
3. Assistant Surgeons, Class II (service salaried)	2.4		Complication
4. Medical Officers of other category	P. side	Effusion on A Haemontysis	
5. Nurses	mu:	(1)	Ward sister
() Midating		Siabetes	8 Nurses)
6. Midwives	"anini:	Tracheo Brone	5.
7. Female Ward Attendants		Larynzitis	.6
8. Nursing Orderlies:		and the second second	
i.e., Male Ward Attendants	6	sent inusided	7.
9. Technician II Grade xanodit	enertme	Spontaneous l	8.
10. Dispensers-Compounder	1	Hansen	9.
11. Ministerial Staff silinoi	2	Abdominal Tu	.01
12. Other Grade (IV) Staff:-	culosis	Millary Tuber	.11
Sweepers	3	Br. Astema	12.
Scavengers	3	3inalaM	.81
Cook	1	Scables.	.41
Kitchen Thozhilalies	2	Anaemla	15.
Gardeners	2	Hernia	
Dhobies	2		
Barber ratedad lasigolodia	a doite	* (at Corpon	
			£113

50

JHO I

13.	Electrician	Male Femals
	Electrician-Lascar	wing the number of bees on
	Electric Lift Attenders	ada 2

# (i) Name of the Medical Insti- Sri Thiruvoteeswarar Tuberculosis Mostution. 'D' TRAMATATZ (, Madras-12.

Showing the number of in-door patients treated during the year 1957.

She

District 188	Mac	lumber of patients treated.sart	4 (vi)
Name of Dispense	ry Sri IntoT p	Thiruvoteeswarar Tuberclosis ital Corporation of Madras, K igh Road, Madras. 12.	onnur
Total treated duri		. Respiratory 551 n	
	Wor	. Intestines, Perireguum und Mesentric Glands	8
	1 .	· Malaria 285 ···	
D. M. Character		Laryogeal	
Results of treatme	nt of the discharged cas	Glandular, Urogenital I	
		Anal, cicu	
Number cured :			73
	Much improved	in or	
	Stationary	43	
mot with offnor as	Worse	N.BNumbers 3 to 31 iter lications or in association with	comn
Others:	Died	2	
	Non-Tuberculous	ATTATEN	
Ratio of death per	cent to the total tre	ated	
Number of hode o	e year 1957 aldaliav	dring th	
Number of beds a	Men	Cuberculosis of resp. 14 or ysten	i.
		New admissions during the ye	
* Average du	ration of illness	Daily Average number	
Men	88.6	Men 37.38	2.
Women	90.8	Women 32.60	(î)
	· 1 …	<u>Abdo</u> minal (a) Intestinal	(vi)
	. 1	80:00 rs : Iscohio Rectal	(vii)
	4	Latyngeal Trachca Brone	•
	1 min		

\* Average duration is obtained by dividing the total in-patient attendances in the year by the total number of in-patients.

#### STATEMENT 'D' (NEW FORM)

#### Showing the number of beds and Geographical distribution of Tuberculosis cases (infectious and other diseases treated) during the year 1957.

(i)		me of the Medical Insti- ution.	pit	Thiruvoted al, Corpo gh Road,	ration	of Mad		
(ii)	Nu	mber of beds for males		41				
(iii)	Nu	mber of beds for females		37				
(iv)	Nu	mber of patients treated-	N	fales		153	Inini	
-		ndoor		emales		132		
		muvoleeswarar Tuberclos I Corporation of Madras,		Total		258	me of Di	n%1
(v)	Tu	berculosis—						
	1.	Respiratory	. 21	2 (inclusiv	ve of 5	deaths	ninovi la	Tor
	8.	Intestines, Peritoneum and Mesentric Glands	1 	1				
4	4.	Malaria		1				
	5.	Others:-						
		Laryngeal		33				
		Glandular, Urogenita		6		assures	u lo silui	Res
		Anal, etc,,						
7	3.	Diabetis Mellitus		cent 6	Quios	: 60		u.M.
8	1.	Anaemias	[	3	iou?A			
11	3.	Lung abcess		1 bave				
10	9.	Pneumonitis		1 . yanno	Statio			

N.B.—Numbers 3 to 81 items mentioned are met with either as complications or in association with Pulmonary Tuberculosis.

#### STATEMENT 'DT'

# Statement showing patients treated for Tuberculosis during the year 1957.

1.	Tuberculosis of respiratory system :-	-	len	
	New admissions during the year Of these fresh cases	 ezapi	212 133	V darub ogarovA
2.	Tuberculosis other forms :			
(i)	) Of glands (lymphatic)	8.09	1	Women
(iv	) Abdominal (a) Intestinal		1	
(vii)	) Others :- Isechio Rectal		1	
	Laryngeal		4	
	Trachea Bronchia	1	1	

\* All the other forms of Tuberculosis under (2) are found only as complications to Pulmonary Tuberculosis.

#### STATEMENT D-1

Showing the age and sex distribution of in-patients of Sri Thiruvoteeswarar Hospital, Corporation of Madras during the year 1957.

Age Group	Pulmonary Tuberculosis				
Age Group	Males	Females	Total		
0 to 1	mannin	the Gove	tached to		
1 to 4	PGRATOVOL	bed to the	Cotton		
5 to 14	2	3	5		
15 to 24	50	41	91		
25 to 44	72	74	146		
45 to 64	27	13	40		
65 and above	led In ton	s and record	navi case		
	152	131	283		
		The second the	100		

N.B.-2 Non-Tuberculosis admitted for observation were not included in this.

# STATEMENT 'E' (New Form)

### Showing the details of Surgical Treatment done during the year 1957.

1. Nature of operations :		
Artificial Pneumothorax Treatment Total No. of A. P. Refills given		2
No. of patients who received Bilateral A. P.S. Aspiration of Air done		4 Times
Aspiration of Fluid done	Dele 7	10 Times
2. Operations on the abdomen:		
Pneumoperitoneum : No. of patients who received initial P. P.		20
Total No. of refills done		922
Results of Treating of discharged cases:		
Quiescent		5
No. of much improved (relieved) and discharged		89
No. of improved and discharged		41
Discharged otherwise		44
Deaths h-14		2 00 2014

#### h-14

DE COQUESSON TO

#### 2. **DISPENSARIES**

The year 1957 opened with 40 general dispensaries, 8 clinics and 2 major Hospitals. During the course of the year 3 more general dispensaries of Allopathic system were opened at Sanjivirayanpet (4th division) Basin Bridge (7th division) and Sathanipet, Maduvankarai, Guindy (49th division).

Out of the 43 general dispensaries 35 are of the Allopathic system and 8 of the Indigenous system. Of the 8 clinics two are for Leprosy, one for Veneral Diseases and the others for Tuberculosis. Besides, the Corporation Tuberculosis Clinic at Pulianthope, there are 4 Tuberculosis Clinics attached to the 4 Government Hospitals in the City. The Tuberculosis Clinics attached to the Government Hospitals were jointly maintained by the Corporation and the Government, the Corporation meeting the expenditure on establishment and the Government meeting the expenditure on medicine, accommodation, etc. The Clinics continued to be under the direct control of the Director of the Government T. B. Institute, Egmore.

During the year under report, the general dispensaries attended 16,36,269, new cases and recorded a total attendance (new and old cases) of 34,30,333. The number of minor operations performed was 9,661. As this year was affected with an epidemic of imported Influenza fever, the general dispensaries of the Corporation of Madras rose to the occasion to give relief to the poor and the in-need by treating them with Elkosin Tablets, Influenza Mixture and Penicillin Injections and the total number of Influenza cases thus treated amounted to 95,157. The location of the dispensaries and the detailed statements on the working of the dispensaries and Hospitals is furnished in the Statistics Supplement appended to the report.

Mobile Dispensaries :--Of the two Mobile -Medical Units, one inaugurated in 1953, continued to serve the needs of the poor living away from the dispensaries at Kodambakkam and Adyar, while the other inaugurated in 1954 continued to render medical aid in the outlaying areas of Perambur, Sembium and Ayanavaram.

The Medical Officer of the Kodambakkam Dispensary accompanied one of the vans on every Tuesday, Thursday and Saturday. On these days this van visited by turns Choolaimedu and Namasivayapuram, Kodambakkam Cheri and Nallankuppam, Jaffarkhanpet and Mambalam Cheri and rendered medical aid. The Medical Officer of the Adayar Dispensary accompanied the vans on Mondays, Wednesdays and Fridays. On these days this van visited by turns Alcotkuppam, Vannanthurai, Damodarapuram, Kalikundram, Pallipet, Maduvankarai, Kottur Cheri, Zamin Adayar and Varadhapuram.

The other van accompanied by the Medical Officer of the Perambur Dispensary on Wednesdays and Saturdays, visited Erukanchery and Madhavaram and the adjoining cheries and rendered medical assistance. On Tuesdays and Fridays it was accompanied by the Medical Officer of the Sembium Dispensary and it visited Kolathur village and Thandavarayan Chatram and treated those who were in need of medical aid. On Mondays, and Thursdays the Medical officer of the Ayanavaram Dispensary visited Maduvankarai, Arumbakkam, Sanarpalayam, Ponnuvelu Pillai Thottam and Aminjikarai Cheries by turns.

As there was an epidemic of Influenza during the year under report, the Mobile Medical Units went round the City of Madras, particularly, to the backward and slum areas, to give medical relief to the people on the spot near their home and to those who were unable to go over to the Hospital or to the Dispensaries. Along with these, other vans of the Department were also temporarily converted into Mobile Medical Dispensaries to give relief to the people from the ravaging Epidemic Influenza. Skin and Leprosy Clinics :- The Madras City Corporation continued to maintain the two Skin and Leprosy Clinics-one in Vyasarpadi and another in Triplicane. Their activities consisted of treating cases at the dispensaries, conducting survey, doing propaganda work and segregating infective cases.

The Central Leprosy Teaching and Research Institute at Thirumani in the Chingleput District has 36 beds reserved for the patients from the City. Cases examined in the Corporation Clinics and requiring institutional treatment were recommended for admission in the Institute. The Corporation paid a capitalion grant of Rs. 50/- a month for every bed utilised.

The School Medical Inspection staff directed cases of Leprosy to the Clinic at Vyasarpadi and Triplicane for treatment.

In this respect, close co-operation was maintained between the clinical staff and the school medical inspection staff.

# 3. SPECIAL CLINICS

Mospiralisation facilities as available at present are found to be

#### Report of the work of Leprosy Clinics, for the year 1957.

This is the 9th Annual Report of the working of the Madras Corporation Leprosy Clinics.

There are two Leprosy Clinics situated at Dr. Besants Road, Triplicane and Gantz Road, Vyasarpady. These serve the Southern and Northern Parts of the City. These Clinics are situated in these particular localities on account of the prevalence of more number of slums in these areas.

Each Clinic is in-charge of a Medical Officer, specialised in Leprosy work and is assisted by a Health Visitor and an Injector.

Preventive and control activities.—New patients attending the Clinics were explained the nature of the illness and its hazards to them and to their environment. They were instructed to observe certain practical preventive measures as follows: Infective cases were advised to avoid close contact with young children by not sleeping in the same bed with such children and keeping their dress and utensils beyond their reach.

The hazard and danger of ulceration and deformity from being careless in carrying out, manual work and work involving contact with fire and hot objects has been brought home to patients. The importance of massaging hands and feet and attending promptly to minor injuries in these situations have been impressed on non-infective cases of Leprosy who are likely to suffer from disabilities due to deformity and ulceration.

Survey.—The slum areas around the Clinics have been surveyed a few years back. Attendance of cases from these areas for treatment has been found to be very irregular. Hence attention has been bestowed on the re-survey of these localities with a view of finding the progress of the illness in these areas. The gross population changes revealed by re-survey makes assessment of progress of the illness in these localities difficult. The object of the re-survey has also been to improve the regularity of attendance for treatment which is an important factor as a preventive measure against the spread of the illness.

	sults of Survey Work—	Leprosy Clinic Vyasarpady	Leprosy Clinic Ice House Road
1.	Total Population Enumerated	5,244	5,569
2.	Total Population Examined	4,156	3,485
3.	Percentage of population examine	ed 80.8	62.65
4.	Total Leprosy cases detected	41	67
5.	Gross incidence .	9.8	18.9
6.	Child incidence .	2.7	10.8
7.	Open case rate .	7.3	16.4

Laboratory Investigation.—Examination of skin smears of new and old leprosy cases have been carried out to detect infective cases. Haemoglobin estimations have been done to control treatment. These have been helpful in concentrating attentions of families of infective cases so as to detect fresh cases at the earliest opportunities.

Hospitalisation facilities as available at present are found to be inadequate in consideration of the demand for them.

Details of Hospital Work done in 1957-

		L. C. Vyasarpady	L. C. Ice House Road
~ 1.	No. of new cases registered in the Clinic		
	Men	1,579	2,179
	Women	1,164	1,664
	Children	3,285	4,003
2.	No. of infective cases of Leprosy	155	197
	No. of Non-Infective cases of		
	Leprosy	351	463
4.	Total No. of Leprosy cases	506	660
5.	No. of Non-Leprosy cases (skin cases)	5,522	7,186

#### Veneral Clinic

The Clinic is situated at Nos. 83 & 83-A, Strahans Road, Otteri, in the 19th Division. It serves the whole City, especially 17 to 24, 26, 32 & 33 divisions, and mofussil areas like Avadi, Villiwakkam, Red Hills, etc. The Clinic is working in 2 separate buildings for the male and female sections.

During the year under review, the number of cases treated are as follows :

New Cases Treated			Total Cases Treated			Average Daily Attendance			
Male	Female	Children	Male	Female	Children	Male	Female	Children	
1343	845	342	4627	3849	950	12.67	10.65	2.60	
enicita -niurs	2,530		1.00	9,426	Print and	1.70-13	25-1	82	

1,203 injections have been given, 1,071 blood specimens were tested for V.D.R.L. 450 specimens were examined under Dark Ground Microscope and 958 specimens were tested for Gonorrhoea. 3 Minor Operations were done.

C11	100	5	- 6	TY2		100
Classi	ncan	ion	OT	Du	seases	-
C B B B D D B			~ 1		0000000	

	in and day	Veneral	67, Old	Vyvasarol		
Sex	Syphillis	Gonor- rhoea	Soft sore or chancroid	Bubo	- Non- veneral cases	Total
Male	. 92	235	480	46	490	1,343
Female	. 80	183		.borin	533	797
Children (under 15 yrs.)	. 21	20	Private M were' atte	tom.the	329	370
Total	. 193	438	480	47	1,352	2,510

#### Treatment

Treatment of Syphillis is purely on the basis of W.H.O. recommendations. Each patient gets a total of 16 c.cs. of PAM in 3 injections within 8 days, i.e.

	1st Day	5th Day	8th Day
Adults	8 c.cs.	4 c.cs.	4 c.cs.
Children (under 5 years)	2 c.cs.	1 c.c.	1 c.c.
Children (above 5 years	4 c.cs. and below 13 y	2 c.cs. ears)	2 c.cs.

235 couples were examined. In 133 couples, blood was taken. Of these, in 20 cases both husbands and wives were positive and in 18 instances husbands alone were positive and in 63 cases wives alone were positive. In 24 instances husbands, wives and children were positive and were treated. Of women treated for Syphillis at nearby Child Welfare Centres, husbands of only 33 women were referred to this clinic for examination and treatment and of these 33, only 9 were positive.

# Follow up Work

During the year 219 houses were visited and contacted 147 patients out of which only 63 responded. The follow up work was suspended from April onwards due to the retirement of the Health Visitor.

staff Working in the Clinic

was 115.

Medical Officers : 1. Dr. K. V. Nair. 2. Dr. Mrs. Emoch.

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#### bareat come Tuberculosis Clinic, Pulianthope

The Clinic situated at 13, Pulianthope High Road, Pulianthope was in its 14th year of activity during the year under review. It continued to meet the demands on its services particularly from its preventive control area comprising Pulianthope, Choolai, Perambur, Sembiam, Kosapet, Vyasarbady, Ottery and Ayanavaram.

8,879 new patients sought the opinion and advice of the Clinic during the year.

Clinical and Fluoroscopic Examinations were done as a routine on every case. Radographic and Laboratory Examinations were done as and when they were required for diagnostic treatment and aftercare check-up purposes. The services of the Corporation Public Health Laboratory were utilised whenever required.

References from the Private Medical Practitioners and social and Medical Centres in the City were attended to as in the previous years.

Sorting and Disposal of cases after diagnosis are detailed in the statements appended.

Awaiting list of patients suitable for Hospital treatment was maintained as in the previous years. Each case in the list was considered on its merits and the urgeney of admission to the Corporation Sri Tiruvoteeswarar Tuberculosis Hospital, which provides for in-patient treatment in the anti-Tuberculosis Scheme of the Corporation of Madras.

Contact Examination and Home Visiting:—This was possible through the medium of the Health Visitor. It was noticed that a good number of Tuberculosis cases were coming from out-side the City and staying with their relatives in the Control Areas.

Advice on the method of prophylaxis by the Medical Officer at the Clinic and in the houses by the Health Visitor formed a regular feature of the activity of the Clinic.

The Corporation B. C. G. Team visited the Clinic on two days in a week and the opportunity was availed of by the Clinic for the benefit of the contacts and the children who attended the Clinic for examination.

8,879 new cases were examined at the Clinic. Out of this 1,141 were found to be Pulmonary Tuberculous Cases, and 184 were found to be Non-Pulmonary Tuberculous Cases. Total number of Tuberculous cases diagnosed was 1,325.

32,405 Old Cases were attended to. The grand total of patients who attended the Clinic was 41,288. The daily average attendence was 115.

2. Dr. Mrs. Emoch.

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Year	Lon Los	No. of cases examined	No. of cases diagnosed as Pulmo- nary Tuber- culosis		Total No. of cases dignosed as Tuberculosis	Percentage of Tuber- culosis cases examined
1952	88	9,814	1,680	124	1,804	18.4
1953		10,073	1,442	140	1,562	15.1
1954		9,275	1,260	120	1,380	13.1
1955	1	9,862	1,331	143	1,474	14.9
1956		8,492	1,237	161	1,398	15.2
1957		8,879	1,141	184	1,325	14.9

### Table A -Showing the number of cases examined and the number of Tuberculosis cases among them during the year 1957

Table B-Showing the daily average attendance during the year 1957

(9 55 23 58	Year	1421	Daily aver- age	7 - 31 1,103
	1952		150.5	
	1953		146.3	
	1954		140.9	
	1955		110.4	
	1956	=	109.0	
Isto T	1957		115.0	

- int		1			N	3	Ta	able	С	nB	- H	1	A INC	Re II	He
	ned	127		0	examination		mark conta		2	Vi Heal	sits lth vi	of sitor	s	2	53
Year	No. of sputum examined	No. of aspirations	No. of A. P.	No. of P. P.	No. of contact exam done	P.T. I	P.T. II	P.T. III	Normal	New	DId	Hospital discharge	Total	Radio graphy	Fluroscopy
1957	5008	35	Nil	12	1217	13	4	23	1177	807	351	383	1543	931	11,152

Attendance at the Clinic								NOR			iones i
M	ale	Fen	nale	М.	C.	F.	C.	Total New	Total Old	Grand total	Daily average
New	Old	New	Old	New	Old	New	Old	Tubes culos			
3,840	14,596	3,232	13,304	926	2,686	881	1,823	8,879	82,409	41,288	115

# Table D-Out-patient Statement for 1957

Statement E-Diseases treated for the year 1957

P.T. I	P.T. II	P.T. III	Total No. of P.T. cases	Non- Pulmo- nary T.B.	Coryza	Influenza	Bronchitis	A.C. Bronchitis	Br. Asthma	Bronchitiasis	Eosno phil Lung	Tonsilities
7	31	1,103	1,141	184	2	89	2550	7	1049	55	23	58

Statement E-Diseases treated for the year 1957-(cond)

Heart diseases	Diabetes	Malaria	Kala-Azar	Filariasis	Brancholities	Pneunionia	Pleurisy	Whooping Cough	Emphasema	Other diseases	Normal	Total
77	1	9	4	2	Nil	9	69	5	3	1,102	2,440	8,879

Statement F-No. of B and C Mill cases and Corporation employees

Mill cases	No. of	No. of Corpora-	No. of			
attended	positive cases	tion employees	positive cases			
1543 9 <b>67</b> 11,152	1177 MIN 51 38	238 7121	9575008 28 1411 12			

	Po	sitiv	e ca	ises a	acco	rdin	g to	PLA	CES	5 for	the	yea	r 1957	Centro
Year	Pulianthope	and the second second	Choolai	Kosapet	bes tottud	Perambur	Vyasarpady	Combioned	Scinolam	Iynavaram	Total	LOLAI	Cases Referred to T.B.I. Egmore	Referred to T.B.C. Govt. General Hospital
1957	17	7	176	94	9	91	40	8	37	70	1	35	48	27
Po	sitiv	ve ca	ses	accor	rding	g to	PLA	CES	for	the y	ear	195	7—(co	ntd.)
o T.B.C. Stanley	utility 1	.B.C.	Acriba	Govt.	11161	ilk un	citility	Izal	achor	ogyt I	Case	s fro	om	tow II
Referred to T.B.C. Govt. Stanley Hosnital	a N	Referred to T.B.C. Govt. Royapettah	Hospital	Referred to Govt K. G. Hospital	K. G. Hospital Cases from Mofussil		Grand Total	T. B. I.	Egmore	G. H.	Stanley	Hospital	Royapettah Hospital	Govt. K. G. Hospital
201		27		13	9	90	1,14		li1	Nil	N	Jil	Nil	Nil
reiul e	P	ositi	ve c	ases	acco	ordin	ng to	AG	ES	for t	he y	vear	1957	Maria
Year	Years 0-5	Years 6-10	Years 11-15	Years 16-20	Years 21-25	Years 26-30	Years 31-35	Years 36-40	Years 41-45	Years 46-50	Years 51-55	Years 56-60	Years 60 and above	Total
1957	22	15	54	156	215	217	125	115	85	74	21	31	11	1,141
in in		101	Nati	ional	ity a	and S	Sex o	fthe	po	sitive	cas	ses		2

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#### Nationality and Sex of the positive cases

Year	Hindus	Muslims	Christians	Total	Male	Female	Children	Total
1957	1009	77	17/55	1,141	650	449	88 42 10	1,141

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Classification of Positive cases according to occupation for 1957

Total	Watch men	Time-keeper	Barbers	Beedi workers	Business men	Electricians	Mechanics	Butter and Baker	Printing	Clerks	Conductor	Coolies	Ryots
1,141 Nil	5 5	Nil	5	12	11	1	5	1020	7	2	Nil	288	3

Classification of Positive cases according to occupation for 1957-(contd)

Mill worker	Driver	Dhobies	M.F.S.	Fisher-men	Police	Weaver	Goldsmiths	Teachers	Priest	Tailors	Merchant	Milk men	Painters	Plumber	Cobblers	Students	Sweeper	Doctors	Destitute	House wives	Unemplo- yed
Nil	Nil	9	Nil	4	Nil	10	6	4	Nil	23	Nil	6	13	Nil	3	47	1	Nil	Nil	363	307

#### **Returns and Statement for 1957**

No. of New Cases	No. of Open Cases	No. of Non- Pulmonary P.T.	Old Cases	A.P. Initials	A.P. Refills	Patients atten- ding for A.P. Refills	No. of P. P. Initials
8,879	1,141	184	32,409	Nil	-if any	2-0 anay	12

# Returns and Statement for 1957-(contd.)

P.P. Refills	Patients atten- ding for P.P. Refilts	Injection	No. of Cases Visited in their houses by H.V.	No. of Cases visited in their houses by Medical officer	No. of contacts examined in the home	No. of contacts examined in the Clinic
141, 791	68	5,698	1,543	Nil	Nil coo	1,217

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Pulmonary Tuberculosis	Tuberculosis of Glands	Osteo- Articular	Entritics	Abdominal Intestines	Meningeal	Tuberculosis Skin	Genito- Urinary Tuberculosis	Pleural with- out lung affection dry	Pleural with- out lung affec- tion with Effu- sion	Other Forms	Total
1,141	100	296 <b>1</b> 675	19	···19	Nil	Nil	Nil	25	1954 0 <b>2</b> 955 1956	Nil	1,325
i for	Cla	assific	ation	of Pa	tient	ts ac	cordin		come 1	957	
Rs. 5-10	Rs. 11-15	Rs. 16–20	Rs. 21–25	05 7C 3G	00-07 .ev	Rs. 31-35	Rs. 36-40	Rs. 41–45	Rs. 46–50	Rs. 51–55	Rs. 56–60
26	56	111	19	00 1	78	249	119	49	43	35	22
1.0											
Rs. 61–65	Rs. 66–70	Rs. 71–75	Rs. 76–80	Rs. 81–85	100 100 100 100 100 100 100 100 100 100	Rs. 86–90	Rs. 91–95	Rs. 96–100	Rs. 100 and above	T T T T T T T T T T T	otal
Rs. 61-65	Rs. 66–70	8	G Rs. 76–80	and be		ω Rs. 86–90	Rs. 91-95	Rs. 96–100	L Rs. 100 and above	The Contract	otal 1,141
21 H	14 Iome V	8 Visits	9 by th	e Heal	5 th V	3 Visito	1 1	1 Conta		The Contract of the Contract o	1,141 ion
21 H	14	8 Visits	9	e Heal	5 th V	3 Visito	1 ors and	1 Conta 57	1	minat	1,141 ion
21 H	14 Iome V	8 Visits Y 19 19 19 19	9 by the	e Heal duri	5 Ith V ing t	3 Visito	1 ors and ear 19	1 Conta 57 ()	1 act Exar Cases 1,130 1,002 869	minat	ion

		Year				Cases	aison ab	alosi
[2]	in the	1952	105.11	the state	Cotor of	 1,845		ngisk
		1953				 1,787		
		1954				 1,287		
1,325	1171	1955		IIVI I		 1,296		
		1956				 1,675		
		1957				 1,217		

Number of Contacts	Examined at the	Clinic at	the instance of
the Healt	h Visitors during	the year	1957

Tuberculosis Clinics at the Gevernment Hospitals:—The four Tuberculosis Clinics each attached to the General Hospital, Stanley Hospital, Royapettah Hospital, and the Kasthuri Bai Gandhi Hospital, continued to be maintained jointly by the Madras Government and the Madras Corporation, the Government meeting the expenditure on medicine and accommodation of the Clinics and the Corporation bearing the charges on establishment. The Clinics are under the direct control of the Director of Tuberculosis Institute, Egmore, and the Health Officer of the Corporation exercised overall supervision over them.

Each Clinic was incharge of a Medical Officer assisted by two Health Visitors, excepting the Clinic at the Kasthuri Bai Gandhi Hospital where there was only one Health Visitor.

All the Clinics had the benefit of the services of House Surgeons and laboratory facilities of the Hospitals to which they are attached. An emergency ward attached to each of these Clinics proved extremely beneficial for cases like Haemophtysis and Spontaneous Pneneumothorex needing immediate attention.

The Clinic attached to Kasthuri Bai Gandhi Hospital attended only to cases among women and children. The other Clinics served the needs of both men and women patients.

The Control Areas of these Clinics are detailed hereunder :--

the second second second second	Chintadripet
T. B. Clinic at the Government General	
Hospital.	Sowcarpet Kothawal Bazaar
- Crisos -	Kachaleswarar Agraharam Napier Park.
07.1,1 1,000	New Washermenpet Royapuram Singara Garden
T. B. Clinic at the Government Stanley	Sanjeevirayanpet Korukupet
Hospital	Basin Bridge Peddu Naickenpet
1.853	Seven Wells Amman Koil

Harbour.

- T. B. Clinic at the Government Royapettah Hospital.
- vernment Kodambakkam.

T. B. Clinic at the Government Kasthuri Bai Gandhi Hospital. Iam Baza

ent Kasthuri Jam Bazaar Mirsahibpet

#### Tuberculosis Clinic, Government General Hospital, Madras. Annual Administration Report 1957.

Tuberculosis Clinic, Government General Hospital, functions daily between 2 to 5 p.m. except on Sundays at the out-patient department.

Staff :--

Medical Officer-in-charge of T. B. Clinic.

Two to three House Physicians (change every month)

Two Health Visitors.

One Staff Nurse.

One Clerk

The Director, Govt. T. B. Institute and Clinics, supervise the work in the Clinic and also in the wards twice a week.

#### Facilities available :--

Screening, X-ray, Laboratory, etc.

There is an emergency ward of 18 beds (12 for males and 6 for females) attached to this Clinic. Emergency cases of Pulmonary Tuberculosis like Haemoptysis, Spontaneous Pneumotherax etc., are admitted into these wards.

#### Hours of work: Daily Routine :--

8-11 a.m. House visiting by Medical Officer and Health Visitors

- 11- 1 p.m. ward work by Medical Officer and House Physicians
- 2-5 p.m. out-patient work by Medical Officer and House Physicians.

The two Health Visitors also attend to all cases coming to the outpatient department Clinic. Patients' names are registered, addresses noted correctly, examined thoroughly and screened. X-ray and laboratory investigations are done the next day. Diagnosis of Pulmonary Tuberculosis are made and their register is maintained. Treatment is advised and started. All cases fit for sanatorium treatment are selected every week and their names put in the waiting list for admission in to Government Tuberculosis Sanatorium, Tambaram. Waiting-list Register is maintained at the Government Tuberculosis Institute, Chetpet. Intimations for admission are sent direct to the patient by the Superintendent, Government Tuberculosis Sanatorium, Tambaram as and when vacancies arise.

	66		
1. Number of cases register	ed at the Clinic.		
Males		4,77	6
Females		2,29	2
Children		and and is pinit? .8 63	6
		Total 7,70	4
[Kodambakkam.			-
2. Number of Pulmonary T			4
P. T. I accordent	P. T. II	P. T. III	-
Males 131	Males 97	Hungoli (dinna) ight	
Females 124	Females 40	Females 88	
Children 61	Children 16	Children 5	4
Total 316	Total 153	Total 3,23	5
3. Number of open cases in	the above	3.235	
4. Number of non-pulmonar			
Cervical Adentitis	a second s		
Bone Joint, T.B.		52	
T.B. Larunx		Million micro	
Pleurisy with effussion			
		Total 278	
		One Staff Nurse.	
5. Number of non-tuberculos	sis cases :	1200	
N.A.L. Ch. Bronchitis		1,559	
Pulmonary Eiosiniphelia		1,201	
V. D. H.		10	
Br. Asthama		120	
Pneumonia		128	
Bronchiectanois	UCSALITACOR .	8	
H. Y. D.		786	
		Total 3,722	
al Officer and Health Visitors	risiting by Medic	Station of the literation	
6. Total Number of old[case Males		an and an orall and a start of the	
Females		19,135	
Children		9,080	
balan som shift i save in an		2,022	
		Total 30,237	
7. Daily average attendance		& Old 96)	
8. Number of in-patients tre	ated :	dvised and started. Al	
Males	581		
Females	208		
for en manadma T ,muin Total	200	uperintendent. Governu	Si -
		fren vacancies arise.	N

66

Ti-ri

T. B. Patients according to OccitnemtarT

Clarks and typists

1.	Antibiotics	167
	(a)	Streptomycine

		-		
(b)	Ρ.	Α.	S.	

(c) I. N. A. H.

The drugs are widely used and are given free to the poor and deserving, patients who attend the Clinic as out-patients.

2. Collapse Theraphy:-			
(a) A. P.	165	Constab	Police
(b) P. P.			Tailors
Artificial Pneumothorax :		2 annio	Electri
Number of initial A. P's.		nen	Watelu
Number of A. P. refills		2.23	38
	D rofil	acrs .	
Number of patients attended for A	. P. renn	s	15 ndbol/
Pneumopentoneum :			
Number of P. P. (Initial)			old 0 28
Number of P. P. (Refills)			612
Number of patients attended P. P.	. refills		482
Number of injections given			
(S.M., Liver : Calcium etc.)			11589
Number of Radiography done			6506
Number of aspirations done			44
Number of deflations done		-traine	21
Paracenthesis abdominus		e anotici	Nil
Lumbar Puncture			Nil
Tuberculosis according to age :			
1 to 5 years	Varar Not	30	
6 to 10 years	in an exer	18	2. 50
11 to 15 years		44	3. Sov
16 to 25 years	ieren B	792	4. 10
26 to 35 years		1,295	5. Po
36 to 45 years		685	
46 years and above		371	7 24
	Total	3,235	100 - 1 - 1
T. B. Patients according to their income-		nitadrip	
Nil			Advice
Rs. 10–20			
Rs. 21–40		2,033	
Rs. 41–75			
Rs. 76–100		72	
Rs. 100 and above		34	
Total 3.045	Total	3,235	
		All statements	

Patients according to Occupation-					
Nil				tibiotic	
Coolies	ani	1,878		(a)	
Ryots		119	.9	(6)	
Clerks and typists		. 156	LI		
Weavers		70		The	
Peons and Attendants		206			
Petty Businessmen		103	Ture		
Police Constables		30			
Tailors		86			
Electricians		85			
Watchmen		23			
Teachers		50			
Pensioners		4			
Mechanics		32			
Milk men		26			
Dhobies	infi	46			
Drivers	····	35		42	
Barbers		32			
Carpenters		52			
Goldsmiths		35			
oT. 6506	tal	3,235			
1.5 (1000)	OSTO.	7112255-265			

T. B. F

#### Contact Examinations-

·1020

Health Visitors and Medical Officer visit the houses of patients in the following divisions of the City.

459	Name	Corporation Division Number.
1.	Kachaleeswarar Koil	
2.	Kothawal Bazaar	annov 14 of à
3.	Sowcarpet	.anay 15 of 11
4.	Travelyan Basin	16
5.	Periamet	26
6.	Edapalayam	pyod 27 sy ab
7.	Park Town	28
8.	Napier Park	29
9.	Chintadripet	T. B. Patients 08 and us to their income-

Advice is given regarding isolation of patients and disposal of sputum. All contacts are examined, screened and X-rayed if necessary.

34

nl 3.235

Total number of houses visited by Medical Officer ... 295 Total number of houses visited by Health Visitor

1st visits Revisits		685 2,360
Tot	al	3,045

69

Number of contacts examined in the Clinic :

Men		.P. Initials	1. 20	401
Women		A.P. Refills	. 10	512
Children		.P. Initials	9 70	419
	-bu	Total	1.25	,332

#### Number of Pulmonary Tuberculosis Cases Detected among The Contacts

10,0 1	P.T. I		P.T. II P. T. III	
Men		29	Men 1 Men 10	) dimit
Women		47	Women Women 12	2d m
Children		19	Children Children	admi
		95	1 24	4
			Total 120	- alle

Percentage of T. B. among contacts	9%
Number of Family Planning advice given	62
Number of Pulmonary Tuberculosis cases in the T. B. Clinic, Government General Hospital	519

#### Annual Report of the T. B. Clinic at Government Stanley Hospital for 1957

#### Curative side

41			Men	Women	Children Total
1.	Number of new cases (in ding contacts)	nclu-	3,434	1,867	1,100 6,401
	wills Planking		P.T. I	P.T. II	III
2.	Number of Pulmonary 7 cases	. <b>B</b> .	398		1943 2,341
3.	Number of open case the above	es in		·	01 01,943
4.	Number of Non-Pulmon T.B. cases.	nary	•		21 to 40
			12	inners car	41-to 75
	Miliary		1	***	76 to 100
	Pleurisy		14		ovoda bas 00113
	Lupon		5		No income
	Adentis		41		suno sur or
	Spleen of the bones Enteritis	····	43 6 J		Total
5.	Number of Non-tubercu	lary			Occupation :
	cases				2,206
6.	Number of old cases.				Coolies
	Men		9,4137		Ryots
	Women		9,357 }		atollos 119,397
	Children		.627		
	Children		0215		Clerical

#### h-18

	the Clinic :	Men Women Ch	ildren Total
7.	Number of A.P. Initials		1
8.	Number of A.P. Refills	Women	9
9.	Number of P.P. Initials		7
10.	Number of Patients attend- ing for A. P. refills		7
11.	Number of P.P. refills		936
12.	Number of Pts-attending for P.F. refills		113
13.	Number of Injections quiecs (strept. etc.)	П.Л.Я Г.Л.	6,610
14.	Number Screeings done	aoM K2	5,300
15.	Number aspirations done		191110 W27
16.	Number of P. T. cases re- ferred from other Clinics.	19 Children	nsablidO 75

Age group :--

		Р	.T. I	P.1	. 11	Р.Т	. Ш	Total
Age	'	М.	F.	M.	F. 9	M.	F	Total
1 to 6		64	42	be min		22	- 21	149
7 to 10		25	25	Tribore	1	9	15	74
11 to 15		11	8	nent Ge		8	11.7	38
16 to 25		46	48	`		332	210	636
26 to 35		61	48		·	412	164	685
36 to 45		34	19			277	85	415
46 and above	··· ··	25	13			268	38	344
Total		266	203			1,328	544	2,341

Income group :--

Rupees		No. of cases
10 to 20		435
21 to 40		1,448
41 to 75		351
76 to 100		88
100 and above		19
No income		
Total		2,341

Occupation :---

		No. of cases
Coolies		985
Ryots	~~~~~	236
Beedy Rollers	- T35.0	148
Clerical	[12	117 10013

81-d

iment Royapertab		No. of cases	AA
Private	sal, for the Year 195	IqeoII 183	
Businessmen	1044	196	
Tailors		63	
Weavers etc.,	To :2.23,483- (accor s as follows :	beret 230 of being	
Employees of State	Insurance	42	
N.G.O.	ledical Officer	. Full tit0e paid M	
Pensioners	Visitors (Weinen)	dilest 31 fileuQ .	
Total	(million 4) de	2,341	-

Preventive side :	M. X-Ray			ent Roya	Governm
· inntion respectively.	atory eran		First visit	Re- visit	Total
1. Number of houses visi	ited—	1. persi		nio in the	in the Chi
By Health Visit	or		953	1,167	2,120
By Medical Offi	icer		384	to a well ody	384
2. Number of contacts ex	amined in	the Clin	nic—		ment, Roy
	Men Women Children	353 374 406	·}	s (y lite C) Contrat w	1,133
	ints).	P.T. I	P.T. II	P.T. III	Total
3. Number of P.T. case among the contacts	s found	46	(out-p)	62	108
4. Coverage so far in the year	current		0 01 .Mai	06-51 ben	1,133
5. Coverage so far fro to 1957	om 1951 		1		9,655
6. Family Planning-					
Advice given					19
Advice taken					12
Failure	bnuci				1
Contact coverage :					

dinare Henore.	1st	resent year January to comber 1957	From 1951 to Decembe 1957	r
Patients picked up	ig coli da	1,219	6,650	
Houses visited		953	14,515	
Number querried		2,810	19,907	
Number of contacts totally exam	nined.	1,133	9,651	
Number found P.T				
P.T. I	sie	46	327	
Р.Т. П		Nil	Nil	
P.T. III		62	183:	
Total number of P.T. cases		108	569	-

#### Annual Report of the T. B. Clinic, Government Royapettah Hospital, for the Year 1957.

T. B. Clinic work covers an area of 15.2494 sq. miles-8 Divisions.

Population catered to :--2,23,489 (according to old census) Staff attached to the clinic is as follows :--

1.	Full time paid Medical Officer	One
2.	Qualified Health Visitors (Women)	Two
3	Registration Clerk (Part-time)	One One

4. The T.B. Clinic takes the services of the Staff attached to the Government Royapettah Hospital, X-Ray Department and Clinical Laboratory, for X-raying and laboratory examination respectively.

5. The Staff Nurse posted to the T. B. ward is also posted to work in the Clinic in the afternoon.

6. The M. N. O. and F. N. O. posted to the Clinic are part-time workers who have other duties in the other Departments of the Government Royapettah Hospital.

Work done by the Clinic Staff :--

1. Contact work.

2. T. B. Ward work (in-patients).

3. T. B. Clinic (out-patient work).

4. Conference (every Wednesday at Egmore T.B. Institute between 10-30 A.M. and 12-30 P.M. to discuss and also for surgical interference.)

I. Contact Work :--Between 8 A.M. and 11 A.M. all contacts of open cases are querried at their houses and a thorough check-up is done at the Clinic. The cases are informed how to dispose of the sputum and also told spitting at random is dangerous to all and also to society on the whole.

II. T. B. Ward work :- All the emergency cases i.e. cases with Haemoptysis, Spontaneous Pneumothorax, Hydro-Pneumothorax, Pleurisd with massive effusion and also morribund cases with Dyspuoea any breathlessness, are admitted till the emergency is over. Patients admitted come through.

(1) The Government T.B. Institute, Egmore.

(2) Govt. Royapettah Hospital T. B. Clinic.

(3) Govt. Royapettah Hospital Casuality Department.

Hours of work :-- 11 A.M. to 1 P.M. daily.

No. of emergency cases with P.T. admited for the year 1957 advert 347

No. of cases for Haemoptysis ... I.T.I.

No. of cases for Spontaneous Pneumothorax

No. of cases expired

44Total.number of P.T. cases

97

5

III. T. B. Clinic:-(Out-patient work) between 1-30 P.M. to 5 P.M.

The Clinic responds to 8 divisions alloted to it and also people who wish to take treatment are also examined here and given advice. Some are referred to their respective T.B. Clinics.

In addition, to cases referred for opinion by the other Departments of Government Royapettah Hospital are also examined at this Clinic.

*N.B.* No screenings were done till now as the screening machine is out of order from the middle of September 1956 and also the plant is housed in an ill-ventilated small room with no exhaust fans.

During the year, we have had the fortune to distribute milk powder to P. T. patients and their contacts by the kind patronage of CARE India, New Delhi. Many of our patients really enjoyed the help and benefited much by the distribution.

From the statistics, it can be clearly seen that the incidence of **Pulmonary Tuberculosis** is at its zenith in the earlier age groups and in the same group, the incidence is highest in the male sex and also in the low income group of Rs. 20 to 40. Fuller details are furnished in the foregoing pages.

Remarks :- During the year 1957, all the work in the ward and at the T. B. Clinic, only the Medical Officer had to carry out single-handed with the co-operation of the Staff-Nurse posted in the ward.

Patients attending the Clinic are really poor and belong to low income group.

(a) Coolies,

(d) House wives, and

(b) Beedi workers,

(e) the large group of unemployed.

(c) Tailors,

All the cases diagnosed as P. T. (among the poor) do not get a free chemotheraphy as the supply to this Clinic is very small. I wish the authorities to show some more interest to the Clinic and supply free Streptomycin and I.N.H. liberally for the supply the poor as in other big State Hospitals.

Most of the patients fail to attend the Clinic regularly not only because they fail to realize the havoc caused by interrupted treatment but also because they do not get liberal supply to their hearts' content.

In addition, our society and state are not able to keep this problem as is being done in the Eastern Countries. Health Education and Propaganda (including visual) is of primary importance.

The work involved in this Clinic is so heavy that this Clinic needs at least two full time Medical Officers and three Health Visitors to execute the work efficiently to the satisfaction of both patients and the State.

Lastly we are given some funds to the very needy patients by the "Shayorogh Nivaran Fund" and also by State Tuberculosis Association of Madras. This helps the poor P. T. patients who are really not in a position to look after themselves and also their families.

After-care and Rehabilitation Centres must be more and the social workers also must show great interest in teaching these patients, the way of life and also the outlook in life if only they take care of themselves—the spread of Tuberculosis will be much more reduced and the society may benefit more out of it.

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# GOVERNMENT ROYAPETTAH HOSPITAL, MADRAS TUBERCULOSIS CLINIC

Age group		banimed	P.T. I.		P.T. II.		P.T. III.	
		Men	Women	Men	Women	Men	Women	
1 - 5		a nan <b>7</b> dae	Cardis in	os linm	boghine	1.1	2	
5 - 10	.a. ad	6	nichte8 anna	and Lem	2	1	3	
11 - 15		2	5		2 000	6	. 810	
16 - 25		27	20	12	13	142	79	
26 - 35	in ,	23	13	13	16	160	56	
36 - 45		16	8	4	5	139	30	
Above 45		14	6	13	3	131	36	
Total		95	65	44	43	580	204	

(Age and sex groups of cases diagnosed to be suffering from Pulmonary Tuberculosis for 1957.)

#### Income group of Cases diagnosed to be suffering from Pulmonary Tuberculosis

Income		I	No. of Co	ises
Rs. 1 to 9			9	
" 10 to 20	oH (b)		63	
" 21 to 40	(a. the		430	ibe
" 41 to 75			110	
" 76 to 100			14	
Above Rs. 100	1	A	8	
Unemployed	12 at the state	···· ·	150	
			784	

#### **Occupation** Group

3	Dhobies	150]	2
7	Beedi Rollers	-	36
3	Cooks		6
10m 274 21818	Barbers	ha i	4
2	Salesmen	d with	19
17	Watch Repairer	LOIL	2 Ago
tran o 5ei ain	Mechanics	R-ad	14
ardi baril aroof	Artists	Sim	Nil
s san paction	Fishermen	Dill	7
30	Drivers	-34	15
nds.td th. abn	Weavers	Alexan	25
150. b) 4 51.1.9 T	Masons	6201	1
	Rvots	TUS	44
64	THE REPORT TOTAL SALAR	01 10	21
294			4
9	Contraction of the second of the second	ante a	120
a life if only	and also the outlook i	life	152
452 11.	Grand Total	ordy.	784
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7Beedi Rollers3Cooks4Barbers2Salesmen17Watch Repairer5Mechanics1Artists1Artists1Fishermen30Drivers1Weavers1Weavers4Masons7Ryots64Peons294Teachers9Unemployed	7       Beedi Rollers           3       Cooks           4       Barbers           2       Salesmen           2       Salesmen           17       Watch Repairer           17       Watch Repairer           1       Artists           1       Artists           1       Fishermen           1       Fishermen           1       Weavers           1       Weavers           1       Weavers           7       Ryots           64       Peons           9       Unemployed

socisty anay benefit

# Government Royapettah Hospital, Madras-14

Annual Report of the Model Tuberculosis Clinic at Government Royapettah Hospital, Madras for the year 1957.

1.	No. of New Cases (including contacts)
	Men Women Children Total
	2,223 1,310 405 3,938
2.	No. of Pulmonnry Tuberculosis Cases :
	P.T. (i) 162; P.T. (ii) 87; P.T. (iii) 784; Total 1,033
3.	No. of open cases in the above : 784.
4.	No. of non-Pulmonary Tuberculosis cases : 55.
	T.B. adenitis-31; Pleurisy-7; Pleurisy with effution-13 <sup>1</sup> / <sub>2</sub> Lymphadenitis-1; T.B. Free 1.
5.	No. non-Tubercular cases : 2850.
6.	No. of old cases : Men-17,321 ; Women : 11,296;
0.	Children : 2,315 ; Total : 30,932.
7.	No. of A.P. Initials : Nil.
8.	No. of A.P. Refills: 8.
9.	No. of patients attending for A.P. Refills : 2.
10.	No. of P.P. Initials : Nil.
11.	No. of P.P. Refills: 443.
12.	No. of patients attending P.P. Refills: 25.
13.	No. of Injections given (Streptomycin etc.)-7,872.
14.	No. of Screenings done Nil.
15.	No. of Aspirations done 15.
16.	No. of cases referred from other Clinics 69.
17.	No. of houses visited : Ist visit Re-visit Total
	(a) By the Health Visitor 238 818 1056
	(b) By the Medical Officer 465 465
18.	No. of contacts examined :
	(a) In the Homes Nil
	(b) In the Clinic 203.
19.	No. of P. T. Cases found amongst contacts:
	P.T. (i) 24; P.T. (ii) 3; P.T. (iii) 19; Total 46.
20.	No. of cases of Tuberculsis tested Nil
21.	No. of patients getting financial aid 5
22.	No. of patients admitted for Family Planning 30
23.	No. of patients put in the waiting list to 101 Tambaram Sanotorium.

#### A. 1. Total No. of cases registered ... 3,938 2. Total No. of cases Pulmonary Tuberculosis 1,033 3. Total No. of Non-Pulmonary cases in 55 4. Total No. of Non-Tubercular cases ... 2,850 B. Tuberculosis cases: N 261 Pulmounty Tuberculosis Cases : (i) P. T. I P.T. (ii) S7: P.T. II-87 (iii) .T.9 :78 (ii) .T.9 - 524.6 87 784 (iii) P.T.III ... 55 C. Non-Pulmonary Tuberculosis Cases ... (a) T.B. of Pleurisy : nary Tubere ----7 Dry Wet 13 ... (b) T.B. of glands Neck 31 ... Indercular (c) T.B. Abdoman (d) T.B. Knee .... 1 (e) T.B. Sternam .... 1 (f) Lymphadenitis 1 (g) Hydrothorax 55 Total 100000

#### ANNEXURE III-STATISTICS for 1957

I. Diseas	es of Respiratory system	anning and to all
1.		1,033
2.		27
3.		1,024
4.	. Chronic Bronchitis	22
LatoT 5.	. Bronchial Asthma	330
6 1056	. Lung Abscess	LasH sela va
.7 465	. Pneumonia 204 noolito inol	A) B) the Med
. 8.	Whooping Cough	8
9.		2
10.	. Larvngitis	moli och ni 21
11.	. Pharyngitis	niiD add al Nil
12.	Pleurisy Dry and teasons bandta	467 of P Case
	Pleurisy Wet	9 4
13.	Myalgia boteot sisteroroda	Nil
14.	Enistamis	Nil
15.	. Cancer Lung	Nil Patients S
16.	Cystic Lung 19 dimai withertimi	del of pasients an
17.		
18.	Emphytema	tambaram Sar

23.

#### ANNEXURE II-STATISTICS for 1957

<ul> <li>I. Diseases of Condivaseular System : Valvular diseases of heart 4 Myocarditis 15 Vascular diseases of heart Congestive failure</li> <li>II. Diseases of Digestive System : Gastritis 5 Peptic Ulcer 1 Dystpephia 22 Abdomen Colics 3 T. B. Abdomen 3 Hepatitis 1 Ascitis 1</li> <li>IV. Diseases of Lymphatic System and Skeletil System : T.B. Glands Neck 31 T. B. Glands Mediashinal 1 V. Diseases of Lymphatic System and Skeletil System : T.B. Glands Mediashinal 1 T.B. Bones &amp; Joints 2 Fungus, infection of Nil Torhilitis 1 Lymphangitis 1 Pots Diseases 2</li> <li>V.# Other Diseases : Malaria 1 Kala-azar 2 Delvility 25 Anaemia 3 Dysentry 7 Diarrhoea 6 Pyrexia 8 Arthiritis 1 Lumbago 1 Flu 13 Abscess 2 Neualgia 1 Lupus Vulgaris 1 Lupus Vulgaris 1 Lupus Vulgaris 1 Lupus Vulgaris 2 N. No appreciable diseases 1,279 h-20</li> </ul>	11		
Myocarditis        15         Vascular diseases of heart           Congestive failure           III. Diseases of Digestive System:           Gastritis           Dystpephia           Dystpephia           Abdomen Colics           Abdomen Colics           Abdomen Colics           Ascitis        1         V. Diseases of Lymphatic System and Skeletil System:          T.B. Glands Mediashinal        1         T.B. Glands Mediashinal        1         T.B. Bones & Joints        2         Fungus, infection of        Nil         Torhilitis        1         Pots Diseases        2         Delvility        25         Anaemia        3         Dysentry        7         Diarrhoea        6         Pyrexia        8         Arthiritis	II. Diseases of Condivascular System :		
Vascular diseases of heartCongestive failureIII. Diseases of Digestive System :GastritisPeptic UlcerDystpephia22Abdomen Colics3T.B. Abdomen4Ascitis1Nystpephia4Ascitis1Ascitis1N. Diseases of Lymphatic System and Skelettil System:7.B. Glands Mediashinal1.B. Bones & Joints2.Fungus, infection of1.B. Bones & Joints2.Fungus, infection of1.B. Tohilitis1.Pots Diseases2.V. Other Diseases2.Delvility3.Dysentry4.thiritis4.thiritis4.thumbago5.thu7.thu1.Thu3.Abscess3.Neualgia4.tumbago4.tumbago1.tupus Vulgaris1.tupus Vulgaris1.tupus Vulgaris1.tupus Vulgaris1.tupus Vulgaris1.tupositis2.tunsitis2.tunsitis2.tunsitis3.tunsitis3.tunsitis3.tunsitis	Valvular diseases of heart		1
Congestive failure           III. Diseases of Digestive System:       Gastritis          Gastritis        5         Peptic Ulcer        1         Dystpephia        22         Abdomen Colics        3         T.B. Abdomen        3         Hepatitis        1         Ascitis        1         IV. Diseases of Lymphatic System and Skeletil System:          T.B. Glands Mediashinal        1         T.B. Glands Mediashinal        1         T.B. Bones & Joints        2         Fungus, infection of        Nil         Torhilitis        1         Lymphangitis        1         Pots Diseases        2         Delvility        25         Anaemia        3         Dysentry        7         Diarrhocea        6         Pyrexia        8         Arthiritis        1         Humbago	Myocarditis	1	5
III. Diseases of Digestive System:         Gastritis          Peptic Ulcer          Dystpephia          Dystpephia          T.B. Abdomen          Abdomen Colics          T.B. Abdomen          Ascitis          IV. Diseases of Lymphatic System and Skeletil System:         T.B. Glands Mediashinal          T.B. Glands Mediashinal          T.B. Bones & Joints          Pungus, infection of          Torhilitis          Pots Diseases          V. Other Diseases:          Malaria          Malaria          Torhilitis          Delvility          Delvility          Diarrhoea          Arthiritis          Abccess          Malaria          Iparrhoea          Arthiritis          Abccess          Jumbago          Itupus Vulgaris	Vascular diseases of heart	icked un (opan c	1. Patients 1
III. Diseases of Digestive System:         Gastritis        5         Peptic Ulcer        1         Dystpephia        22         Abdomen Colics        3         T.B. Abdomen        3         Hepatitis        1         Ascitis        1         V. Diseases of Lymphatic System and Skeletil System:          T.B. Glands Neck        31         T.B. Glands Mediashinal        1         T.B. Bones & Joints        2         Fungus, infection of        Nil         Torhilitis        1         Lymphangitis        1         Pots Diseases        2         Malaria        1         Kala-azar        2         Delvility        25         Anaemia        3         Dysentry        7         Diarrhoea        6         Pyrexia        3         Abscess        3         Neualgia	Congestive failure	botie	2. Nouses vi
Gastritis        5         Peptic Ulcer        1         Dystpephia        22         Abdomen Colics        3         T.B. Abdomen        3         Hepatitis        1         Ascitis        1         V. Diseases of Lymphatic System and Skeletil System:        1         T.B. Glands Meck        31         T.B. Glands Meckiashinal        1         T.B. Bones & Joints        2         Fungus, infection of        Nill         Torbilitis        1         Pots Diseases        2         Delvility        25         Anaemia        3         Dysentry        7         Diarrhoca        6         Pyrexia        8         Arthiritis        1         Neurosis        1         Neurosis        1         Neurosis        1         Leprosy        2         <	they detailed		
Peptic Ulcer1Dystpephia22Abdomen Colics3T.B. Abdomen3Hepatitis1Ascitis1V. Diseases of Lymphatic System and Skeletil System:T.B. Glands Neck31T.B. Glands Mediashinal1T.B. Glands Mediashinal1T.B. Bones & Joints2Fungus, infection ofNillTorhilitis1Lymphangitis1Pots Diseases2V.& Other Diseases2DelvilityAnaemia3Dysentry7Diarrhoea6Pyrexia8Arthiritis4Lumbago1Abscess3Neualgia1Lupus Vulgaris1Leprosy2Rickets2Sumusitis2	III. Diseases of Digestive System :		
Dystpephia22Abdomen Colics3T.B. Abdomen3Hepatitis1Ascitis1IV. Diseases of Lymphatic System and Skeletil System:T.B. Glands NeckT.B. Glands MediashinalT.B. Glands MediashinalT.B. Bones & JointsC.Fungus, infection ofNillTorhilitisPots DiseasesV.& Other DiseasesMalariaMalariaMalariaDelvilityDysentryJbaseessAbcessAbseessThu <td< th=""><th>Gastritis</th><th>at the Office :</th><th>5 mol .old .tour</th></td<>	Gastritis	at the Office :	5 mol .old .tour
Abdomen Colics3T. B. Abdomen3Hepatitis1Ascitis1IV. Diseases of Lymphatic System and Skeletil System:T.B. Glands NeckT. B. Glands MediashinalT. B. Glands MediashinalT. B. Bones & JointsC. Fungus, infection ofNillTorhilitisTorhilitisPots DiseasesMalariaMalariaMalariaMalariaMalariaPelvility25AnaemiaAnaemiaPyrexiaAthiritisAthiritisAthiritisAbscessNeualgiaNeualgiaLupus VulgarisLeprosyRicketsV. No appreciable diseasesIV. No appreciable diseases </th <th>Peptic Ulcer</th> <th>P.T. 1</th> <th></th>	Peptic Ulcer	P.T. 1	
T. B. Abdomen3Hepatitis1Ascitis1IV. Diseases of Lymphatic System and Skeletil System:T.B. Glands Neck31T. B. Glands Mediashinal1T. B. Bones & Joints2Fungus, infection ofNilTorhilitis1Lymphangitis1Pots Diseases2V. Other Diseases:2Malaria1Kala-azar2Delvility25Anaemia3Dysentry7Diarrhoea6Pyrexia8Arthiritis4Lumbago1Neualgia1Lupus Vulgaris1Leprosy2Rickets2Sumusitis2	Dystpephia	2	2
Hepatitis1Ascitis1IV. Diseases of Lymphatic System and Skeletil System:T.B. Glands NeckT.B. Glands MediashinalT.B. Glands MediashinalT.B. Bones & JointsPungus, infection ofTorhilitisPots DiseasesV.# Other DiseasesMalariaHorebagoHumbagoMundagiaNeurosisMundagiaMundagiaMundagiaMundagiaMundagiaMundagiaMundagiaMundagia <th>Abdomen Colics</th> <th>111</th> <th>3</th>	Abdomen Colics	111	3
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V.* Other Diseases: Malaria 1 Kala-azar 2 Delvility 25 Anaemia 3 Dysentry 7 Diarrhoea 6 Pyrexia 8 Arthiritis 4 Lumbago 1 Flu 13 Abscess 3 Neualgia 1 Neurosis 1 Lupus Vulgaris 1 Leprosy 2 Rickets 2 Sumusitis 2		D and the second	And and the first
Malaria1Kala-azar2Delvility25Anaemia3Dysentry7Diarrhoea6Pyrexia8Arthiritis4Lumbago1Flu13Abscess3Neualgia1Lupus Vulgaris1Leprosy2Rickets2Sumusitis2IV. No appreciable diseases1,279	1013 01300303		tine are vision the O
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Lupus Vulgaris        1         Leprosy        2         Rickets        2         Sumusitis        2         IV. No appreciable diseases        1,279			
Rickets2Sumusitis2IV. No appreciable diseases1,279	Lupus Vulgaris	Is were sereened	
Rickets      2       Sumusitis      2       IV. No appreciable diseases      1,279			
IV. No appreciable diseases 1,279	Rickets	2	envento peor ano q for a period of 6 mo
IV. No appreciable diseases 1,279	Sumusitis		

#### GOVERNMENT ROYAPETTAH HOSPITAL, T. B. CLINIC

#### Contact Coverage for the year 1957

	111		
1.	Patients picked up (opqn cases)		46
	Houses visited	e-failar	461
3.	No. querried at home		1,395
4.	No. of contacts totally examined at the	Clinic	203
5.	No. found at the Clinic :		
	P.T. I	105	24
	P.T. II		Dyst & ph
	P.T. III	Collies	19 bdA
6	Total Number of P.T. cases found		
0.	among contacts.		46

#### Annual Report of the Tuberculosis Clinic at Kasturba Gandhi Hospital for Women & Children, Madras, for the year 1957.

The Tuberculosis Clinic, exclusively for women and children, is run in the out-patient department of the Kasturba Gandhi Hospital for Women and Children, Triplicane, Madras. From April 1954 Dr. (Mrs.) Ganga Bai is in charge of the Clinic assisted by one House Surgeon and one Health Visitor.

Working of the Clinic. The Clinic functions between 2 and 5 p.m. on all days of the week excepting Sundays. The Director, T. B. Institute, Egmore visits the Clinic once a week. All difficult problems and deserving patients are put on the waiting list by the Director. A clinical meeting is conducted on every Wednesday from 10 a.m. to 12 noon at the T. B. Institute, Egmore, where interesting cases are discussed. Women and Children, who are in-patients in the Hospital and who are suspicious of suffering from tuberculosis, are also referred to the Clinic.

No. of patients: During the year 1957, 1902 patients (including contacts) attended the Clinic. 325 cases are P. T. out of which 81 were put on the waiting list for admission into the Tambaram Sanatorium. In the year 1956, 2,306 patients (including contacts) attended the Clinic, 332 were P. T. and 71 were put on the waiting list.

A. P. and P. P.: Initial and Refill A. P. and P. P. are given in the Clinic after consultation with the Director. There was only one initial P. P. and 112 refill P. P. were given.

Contacts. Contacts are visited in their homes by the Health Visitor and the Doctor. They are advised on personal hygiene and preventive measures of contacting Tuberculosis. They are advised to come for screening on two days in a week i.e. on Wednesdays and Saturdays. During the year 1957, 464 contacts were examined, out of which 46 were P. T. 39 men contacts were screened.

Financial assistance and Family Planning. Financial assistance is given to poor and deserving patients. They are paid Rs. 10/- per month for a period of 6 months.

Women patients suffering from P. T. are advised not to become pregnant. They are advised to go to Family Planning Clinics.

General .

Brief Survey:—The majority are P. T. III cases (Out of 325, 250 were P. T. III). The maximun number of cases were between 16-25 years of age (93 cases). Most of P. T. cases are housewives (211 cases) and their husbands income is between Rs. 21 and 40 (156 cases).

-				
	ur	100	1 1 1	100
1.00	41	u	28	e.

Curative.	Men	Women	Children T	otal
1. No. of New cases (inclu-				
ding contacts)	39	1,311	552 1	,902
2. (i) No. of Pulumonary				
Tuberculosis cases	P.T.I	P.T.II	P.T.III	otal
Women	11	53	261 good W	325
Children				
No. of cases belonging to				
,this area	219		Empyrma	
No. of cases belonging to other Clinics	77			
No. of cases from Moffusil.	29			
	Nil		hoveseulur System.	
(ii) Pleurisy Dry do. With effusion	8	an de clos fre		
	1		Hypercension	
(iii) Others	1		American o	
3. No. of open cases in the				
above	83			
4. No. of non-Pulmonary				
Tuberculosis cases		96		
(i) Glands (lymphatic)		82		
(ii) Osteoarticular (excluding		Nil		
(iii) Meningeal (including		INI		
C. N. S.)		Nil		
(iv) Abdominal		9		
(v) Of Ganito-urinary system		Nil		
(vi) Skin		Nil		
(vii) Others		5		
5. No. of Non-Tubercular				
cases		1,472		
6. No. of old cases		10,533	2,590 13,	,123
7. No. of A. P. Initials		Nil		
8. No. of A. P. Refills		Nil		
9. No. of Patients attending				
for A. P. Refills		Nil		
10. No. of P. P. Initial,		1		
11. No. of P. P. Refills		112		
12. No. of patients attending				
for P. P. refills		4		
13. No. of injections given				
Streptomycin		1,829		
Other injections	• •••	2,198	Mumps	
14. No. of Screenings done		1,791		
15. No. of Aspirations cone	17 CUS68	amoro <b>3</b> na -u	Total No. of No.	

10 623	atory System.			miniza	Tho mu
	Influenza				, T. III). The mu
	Upper Resp. attarh		.e		usbande income i
	Tonsilitis			58	
InjoT	Laryngitis	Men		4	
	Pharyngitis		-ulan	() (8 <del>99</del> ))	I. Mar. of New c
	Bronchitis		**	349	
	Chr. bronchitis			3	2. ID LOVE OF
	Bronchiectasis				Tubercut
	Whooping Cough			1	
	Br. Asthma			123	
	Cystic Lung			1	
	Empyema		01 8	algangla	
	Pneumonia			1	this area
			1. 10	in and	
	Tumour Lung			-	
			.list.		
Cardio	wascular System.				
	Vascular disease of the H	eart		24	
	Hypertension			Nil	
	Anaemia			17	
	· macinia		Constant	i shar	
Dinget	ing Sustan				
ngest	ive System.				
	Stomatitis			Nil	
	Peptic Ulcer				
	Dyspepsia			48	
	Diarrhoea			38	
	Chr. Diarrhoea			7	
	Dysentery			3	
	Constipation			_	
	Cirrhosis liver			2	
				3	
	Nut. Oedema			3	
	Rickets			-	Will Others
	Worms			1	
Jrinar.	y System.				
251,2	Pyelitis			Nil	
	Skin				
				6	
	Surgical			16	A RO. OK.
	Gynaec			11	unsilguio . ok .
Other	Diseases.				
	Debility			111	Not of P. P. Re
	Myalgia		····	65	atmainer to off .
	P. U. O.				for P. P. roll
	Kala-Azar			avid P	noitaciai la .oki .
	Enteric	Service 10	(in the second	On the second	
	Mumps	81	normaliu	Citer I	
	Contacts		••••	463	. No. of Screening
	Total No. of Non-Tubercula	17 03000		1,472.	. No. of Aspiratio

### Age, Sex, Income and Occupation groups among patients suffering from Pulmonary Tuberculosis for the year 1957

Age and Sex group :--

The second second second		Total				
Age	inos	P.T. I	P.T. II	P.T. III	Total	
1 to 5 years		2	13	39	54	
6 to 10 years			1	13	14	
11 to 15 years		1	2	6	9	
16 to 25 years		1 1	20	93	114	
26 to 35 years		2	10	66	78	
36 to 45 years		2	7	26	35	
46 years and above		3	b o ya bar	17	21	
Total		11	54	260	325	

Income and Occupation group :--

Income		Occupation	n	
Rupees	No. of cases	Туре		No. of cases
10 to 20	. 42	House wives	Ð	211
21 to 40	136	Nil occupation		80
41 to 75	. 93	Students	.ol	16
76 to 100	. 13	Ryot-cooly		1
100 and above	. 9	Servant		12
Nil income	. 12	Weaver		
	DHO TO SOME	Beedi maker	1 (6)	
		Petty business	4.0U	
to ascone , redmon		Teachers		5
Total	325		Total	325

1	1	r	e	V	e	n	1	1	V	e	÷.	-

16. No. of cases referred from other Clinics	283		
17. No. of houses visited :	1st visit	Revisit	Total
By the Health Visitor	477	505	982
By the Medical Officer	386		386
18. No. of contacts examined	464		
19. Family Planning No. advised	64		
h-21			

Contact	t W	ork:-			
	1.	Patients picked up	Cranomin.	432	
	2.	Houses visited		432	
	3.	No. querriedat their homes		1409	
	4.	No. of contacts totally examitte Clinic	ined in	464	
	5.	No. of P. T. found among the	contacts		
		P. T. I		6	
		P. T. II		14	
		P. T. III		26	
	6.	Total No. of P. T. cases for	ound		
		among the contacts	•••• •••	46	
		1957			
	1.	Area covered by 6 divisions			2.885 sq. mile
	2.	Population catered to		orfs Dive	1,79,303
	3.	(a) No. of new cases register	dur lat	T.	1,79,505
	5.	Males	cu-		39
		Females			1,311
		Children		es aonasta	552
	3.	(b) Daily average attendance	of new car	ses	6
	4.	No. of P. T. cases-	or new cu	- And And	v
		110. 01 1. 1. 04305			
		P.T. I	P.T. II	P.T. III	Total
			20300		
		P.T. I Women 11 Children	P.T. II 53	P.T. III 261	Total 325
	5.	Women 11	53	261	
	5.	Women 11 Children	53	261	325
	1.00	Women 11 Children No. of Non-Pulmonary Tuber	53 rculosis cas	261 ses	325 96
	6.	Women 11 Children 11 No. of Non-Pulmonary Tuber No. of Non-Tubercular cases (a) No. of old cases attended	53 rculosis cas	261 ses	325 96 1,472
	6.	Women 11 Children 11 No. of Non-Pulmonary Tuber No. of Non-Tubercular cases (a) No. of old cases attended Women Cl	53 reulosis cas in the Clin hildren	261 ses	325 96 1,472 Total
	6.	Women 11 Children 11 No. of Non-Pulmonary Tuber No. of Non-Tubercular cases (a) No. of old cases attended Women Cl	53 rculosis cas in the Clin hildren 2,590	261 ses  nic—	325 96 1,472

Area covered by the clinic, showing the number, names of the divisions, population of each division and total population.

	Division	Area in sq. miles	Population
1.	Pudupakkam	0.2238	28,672
2.	Thiruvateeswaranpet	1.0499	30,363
3.	Chepauk	0.2997	24,267
4.	Triplicane	0.1760	26,777
5.	Zambazaar	0.1391	25,044
6.	Meersahibpet	0.7000	44,180
	Total	2.5885	1,79,303

0	1			
24	2		ε.	
c	л	2	2	

T, B, Clinic K, G. H.

Year	Area	No. of divisions	Population	No. of Old
11-9-50	2.8855 sq. miles	6	1,79,303	P.T. II
1951 34	74		"odau	6,124
1952	"	"	cases mong	6,562
1953	"	"	1013.	
1954	Whar for the year	Clinic, «Asholi	of Br C. G.	10,240
1955	shok Viller carries	.G. toun at	reportion, BK	13,892
1956	revious years. Loc l		ring the year ]	13,381
1957	R.H .S.M Yoll wannin St.	"	Medical Office	13,123

People attended New	P.T. Cases	Sputum positive	Sputum negative	Deaths	Remarks.
1,544	79	44	35	42	10 a.m., after and other pl
1,442	369	161	81	154	
2,323	390	115	33	160	
3,174	447	146	36 day	134	IR COL
3,669	525	146	136	M 131	
4,672	583	80	265	89	17/25
2,306	332	65	267	199	i
1,902	325	83	100		

Contact Work-Coverage

Total Number Positive Reactors

Annest Party Co	1950	1951	1952	1953	1954	1955	1956	1957	Total
1. Patients picked up (open cases	) 161	675	614	546	733	765	567	432	4,493
2. Houses vistited	161	675	614	546	733	765	567	432	4,493
3. Number quer- ried at their homes.		1422	2035	1659	1989	1784	1513	1409	12,279
4. Number of con tacts totally	1	763	1127	1315	1035	774	472	464	5,978

examined in the clinic.

1	950	1951	1952	1953 -	1954	1955	1956	1957 Total
5. Number found								
P.T. I			39		18	9	2	6 95
P.T. II			17		21	30	13	14 110
P.T. III			12		35	28	21	26 152
6. Total - Number of P.T. cases			68		74	67	36	46 357
found among the contacts.								

#### Report of B. C. G. Clinic, Ashok Vihar for the year 1957

The Corporation, B.C.G. team at Ashok Vihar carries out B.C.G. campaign during the year 1957 as in the previous years. The composition of the team is as follows —

1.	Medical Officer	 Dr. S. Ramaswamy M.B.	B.S.,
2.	Staff Nurse	 Miss D. Isiah.	

This Clinic at Ashok Vihar is open to the public from 8-30 a.m. to 10 a.m., after which the team start work at various Corporation Schools and other places.

Corporation Schools :--

Total Number of Mantoux tested	095	2,525
Total Number of Positive Reactors		1,200
Total Number of BCG given		606
Absentees for the Test		400
Number of Schools visited	583	12

Ashok Vihar :--

No. of Mantoux tested at the BCG	Clinic	6,979
Total Number Positive Reactors		4,070
Total Number BCG given		953

.

4. Number of con-

T. B. Clinic, Pulianthope :--

Total Number Mantoux tested	1,626		
Total Number of Positive Reactors	0.00%	605	
Total Number of BCG given		331	

84

#### PUBLIC HEALTH LABORATORY

This laboratory was started in 1946 with an aim of providing laboratory facilities to the medical institutions run by the Corporation, so as to make the diagnosis and treatment of diseases more scientific. Incidentally we started catering to the needs of the Private Medical Practitioners and their clientale. The charges levied are very nominal so as to be within the reach of even a poor man. This laboratory is intended for service and not for profit-making.

Year		Number of Samples	Receipts	
	1946		311	215 00
	1947		1,492	647 50
	1948	Motion	5,642	1,635 00
	1949		12,266	4,766 00
	1950		16,346	10,939 00
	. 1951		19,005	11,234 00
	1952	and the second s	33,089	11,560 87
	1953	albert lot	34,310	18,649 75
	1954		43,072	22,336 50
	1955		43,955	24,118 50
	1956		44,569	24,333 50
	1957		47,368	22,409 25

Statement No. 1, showing the progress of the laboratory

As can be seen from the Statement No. 1, year after year, the laboratory is becoming increasingly popular and the number of samples tested are steadily increasing. It is gratifying to note that the staff of various Corporation medical institutions are evincing great interest and are taking full advantage of the facilities provided, and thereby treating their patients more scientifically. More than 60% of specimens tested are from the Corporation institutions. Once again the public and the Private Medical Practitioners are informed that this laboratory undertakes all clinical, Bacteriological works and the rates are very competative and the examination of sputum for A.F. Bauth and the throat-swab for C.Diphtheria are done free and they are requested to avail of this laboratory facilities provided by the Corporation.

Statement No. 2 showing the details of specimens received from the Private Practitioners, various clinics, Dispensaries, Child Welfare Centres of the Corporation of Madras, during the year.

Private Practitioners	Child Welfare Centres	Dispensaries	Clinics	Others	Total
20,638	14,572	10,558	1,147	453	47,368
h—22					ALCONTROL

This laboratory was run under the efficient care of Kumari Dr. S. Arokiadoss, M.D., D.G.O., who has recently returned after a 2-years study in the United States of America, where she has studied the laboratory service, and some special technique in Blood Pathology. She is ably assisted by Dr. M. Anantaram, M.B.B.S. and Dr. Alavandar, M.B.B.S. From the moment she returned from the States, she had been anxious to improve the technique here to place the laboratory on par with the foreign laboratories and she made a beginning in several fields and we hope that she will utilise what all she learnt and improve the laboratory still further.

Statement No. 3, showing the total number of various specimens received during the year.

Blood	Sputum	Urine	Motion	Other Smears	Total
34,078	1,479	2,175	9,414	222	47,368

During the year under review, the laboratory handled 47,368 specimens as against 44,569 the previous year with an increase of nearly 3,000 specimens. Statement No. 3 shows the nature of specimens and number in each. Of special interest of medio-social aspect is the samples of blood received for examination for syphilis. The Corporation has undertaken routine sampling of blood for pregnant women who attend the ante-natal clinics of the Child Welfare Scheme. For want of enough laboratory facilities, etc. only in 15 Centres such a scheme is working at present. In all 14,912 mothers had their bloods tested and of whom 773 were positive. Syphilis not only affects the termination of pregnancy, but the child born of syphilis parents will be far from the normal and it will be a great thing if this is detected before the child is born and the mother treated. With this idea this scheme is put into operation and the laboratory is equipped with latest field survey unit, donated by UNICEF in 1957 which is of great use in working out the scheme.

Statement No. 4, showing the details of Serological test conducted during the year for Private Practitioners, Child Welfare Centres and Veneral Clinic, Corporation of Madras.

No.	Sources	No. of Positive Cases.	No. of Negative Cases	No. of Quantita- tions	Total
1	Child Welfare Centres	773	13,362	777	14,912
2	Veneral Clinics	220	927	210	1,357
3	Private Practi- tioners	161	2,303	12	2,476

For Private Practitioners quantitative test is done only on their request.

#### SCHEDULED RATES FOR EXAMINATION OF SPECIMENS

Blood-ordinary examination counts, etc.		Re.	1/-
Blood-Agglutination test (Widal)	,	Rs.	2/-
Blood-Culture for Bacillus Typhus		Rs.	2/-
Blood-V.D.R.L. test		Rs.	2/-
Blood—Khan test		Rs.	2/-
Blood-quantitation V.D.R.L. test		Rs.	2/-
Blood-Sedimentation rate		Re.	1/-
Motion-for Culture		Rs.	2/-
Motion-for Microscopic Examination		Re.	1/-
Urine-for qualitative examination		Re.	1/-
Urine-for quantitative examination		Re.	1/-
Other smears for G.C. examination, etc.		Re.	-1/-
Skin Clipping smears for Hansens		Re.	1/-

#### PUBLIC ANALYST'S LABORATORY

The number of samples analysed in the Public Analyst's Laboratory, Corporation of Madras during the year 1957 was 6,689 as against 5,746 in 1956. Among these samples, the samples analysed under the Prevention of Food Adulteration Act, 1954 numbered 6,190 as against 5,270 in 1956.

Of the 6,190 samples analysed under the Prevention Food of Adulteration Act, 1954, 4,178 samples were genuine and the remaining 2,102 samples were found to be adultered. Samples for the year 1957 was 32.5 against 32.7 in 1956.

The samples consisted of milk, ghee, gingelly oil, groundnut oil, cocoanut oil, coffee powder, tea, ghee substitutes, turmeric, arrowroot, honey and other articles. A statement of the samples analysed in 1957 and in the five previous years is given in the Appendix (Food Analysis— Statement No. 1). A graph showing the number of samples analysed and the number of samples adulterated each year from 1933 is also appended to this report.

It would be seen from Statement No. 1 that the percentage of adulterated samples after reaching a peak figure of 54.8 in 1952 has been steadily declining. The Central Prevention of Food Adulteration Act came into force on 1st June 1955 and therefore 1956 was the first year in which the new Act was operative for a whole year. The figures for the percentages of adulteration for the three years 1954, 1955 and 1956 are therefore of special interest, the figures being 45.5, 40.7 and 32.7 respectively. Due to the deterrent punishment prescribed under the new Act, it was to be expected that there would be some immediate improvement in the position regarding the sale of adulterated food. The figures recorded have shown that such expectation was fully justified. But the year 1957 has not recorded a further improvement upon 1956, as the percentage of adulterated sample in 1957 was practically the same as that in 1956.

The percentage of adulteration in 1957 was 32.5 as against 32.7 in 1956. Though adulteration of food during 1957 was much less than during the period 1950 to 1955, the figure of 32.5 should still be considered high and therefore measures against food adulteration should be tightened up still further so that this great social evil is completely eradicated within the shortest possible time.

Milk is the most perfect of foods and is also most easily adultered Prevention of adulteration of milk is by far the most important duty for Public Health Point of view. It is an extremely difficult task to control the innumerable itinerant milk vendors of the City. The only remedy is to license the individual milk man and to promote the formation of co-operative milk supply societies, which can be more easily controlled by the Corporation. A scheme is being worked out to achieve this object.

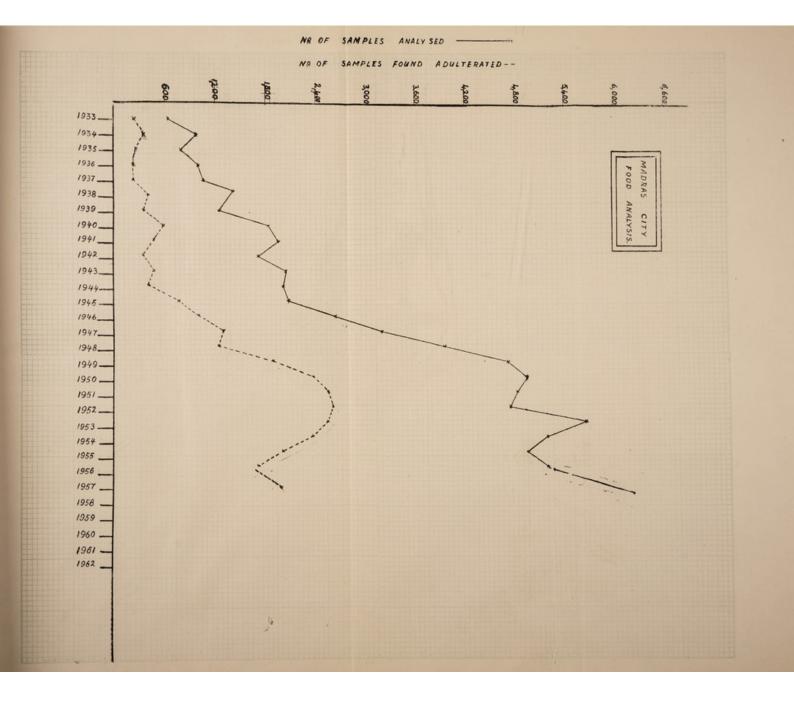
44.5 per cent of the milk samples were adulterated in 1957 against 42.1 in 1956. Though a record number of milk samples were analysed during the year under report, adulteration of milk has not shown the anticipated decrease in 1957. So long as the trade remains in the hands of small vendors and so long as the fines imposed by the Magistrates are not deterrent, adulteration of milk cannot record any appreciable decline.

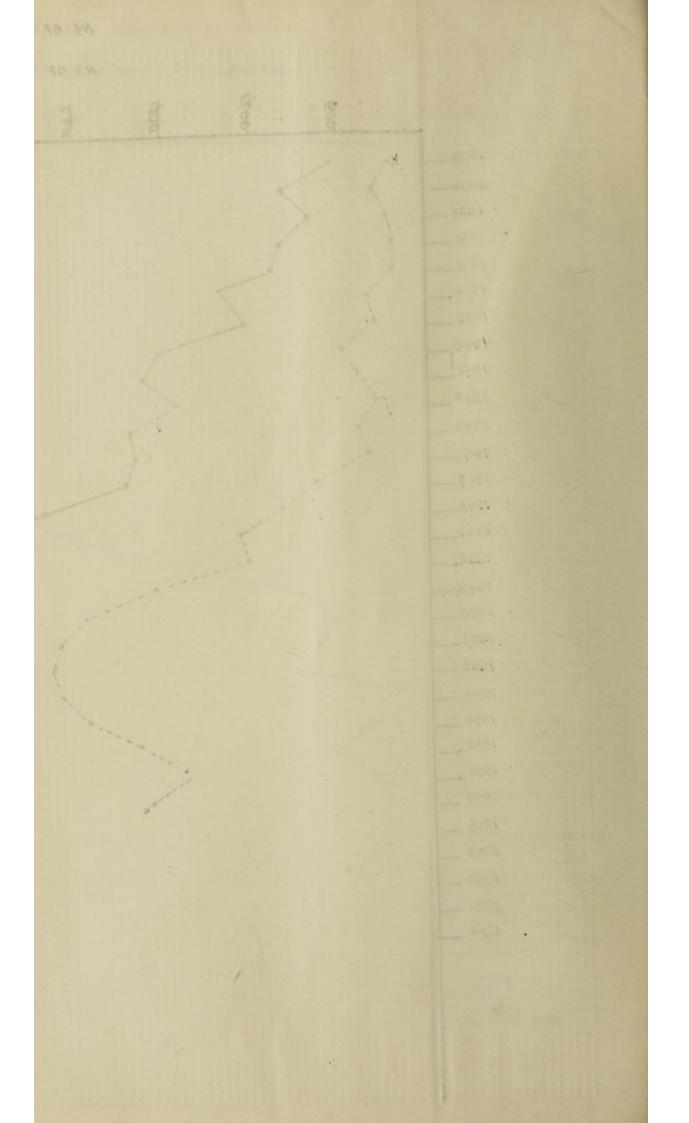
The percentage of adulteration of butter in 1957 was lower than in 1956 - the respective figures being 18.9 and 24.8. There has been a considerable fall in the adulteration of ghee during the year under report, the percentages of adulteration of this article in 1957 and in 1956 being 50 and 10.4 respectively. The adulteration of gingelly oil showed an increase during the year 1957, the percentage of adulteration in 1957 being 30.8 against 21.5 in the previous year. The adulteration of groundnut oil, which had always remained low, showed an increase during the year under report, the percentage of adulteration in 1957 and 1956 being 12.3 and 2.6 respectively. There was not a single adulterated sample of cocoanut oil during 1957. It is a matter for gratification that this fine edible oil is now available to the citizens of Madras in a pure state, especially when it is recalled that only a few years ago, cocoanut oil was adulterated not only with groundnut oil but also with the mineral oil known as White Oil. The adulteration of coffee powder has also shown a considerable decrease during the year under report, the percentage of adulteration being 10.6 against 24.6 in 1956. Tea had continued to be 100 per cent genuine for a number of years and even now continues to be so, but 2.0 per cent of the samples were reported as adulterated as in these samples the tea though genuine was artificially coloured with an orange red coal-tar dye. The colouring of turmeric with lead chromate has shown a decrease during 1957 as evidenced by the fact that only 6 out of 37 samples of turmeric contained lead in excess of the prescribed limit, as against 12 out of 43 samples in 1956. The analysis of samples of arrowroot was continued during the year under report. The description of Arrowroot without qualification should mean only Maranta starch, but an amendment to the Prevention of Food Adulteration Rules has extended the definition of of Arrowroot to inculde also Curcuma starch. It would still be an offence to sell Tapioca Starch (Manihot utilissima) as Arrowroot. Samples of Honey were continued to be taken during the year under report and out of 28 samples analysed, 11 proved to be adulterated.

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

Milk :---3,554 samples of milk were analysed, of these 1,594 samples were cow's milk, 1,275 samples were buffalo's milk, 642 samples were sold under the description of Mixture of Cow's and Buffallo's Milk, 36 samples were described as Milk without the qualification of cow's or buffalo's, 4 samples were described as Powder Milk, 2 samples were described as Toned Milk and one sample was described as Reconstituted Milk.

Of the 1,594 samples of cow's milk, 784 were genuine and 810 were adulterated. Among the adulterated samples, 568 contained added water ranging from 3 to 90 per cent. There was deficiency in fat in 107 samples to the extent of from 20 to 100 per cent and 135 samples were deficient in





fat in addition to containing added water. The average values of fat and solids-not-fat for the 784 genuine samples of cow's milk were 4.9 per cent and 9.2 per cent respectively as against the average values 5.0 per cent and 9.1 per cent solids-not-fat in 1956.

Of the 1,275 samples of buffalo's milk, 807 were genuine and 468 were adulterated. Among the the adulterated samples 343 samples contained added water ranging from 3 to 76 per cent, 67 samples were deficient in fat to the extent of from 20 to 100 per cent and 58 samples were deficient in fat besides containing added water. The average values of fat and solids-not-fat for 807 genuine samples of buffalo's milk were 7'1 and 9'8 per cent respectively as against the average values of 6'9 per cent fat and 9'7 per cent solides-not-fat in 1956.

Among the 642 samples of mixture of cow's and buffalo's milk 369 were genuine and 273 were adulterated. Among the adulterated samples, 234 contained added water ranging from 4 to 42 per cent. 15 samples were deficient in fat to the extent from 20 to 89 per cent and 24 samples were deficient in fat besides containing added water.

36 samples were described as Milk without any qualification. Under the Prevention of Food Adulteration Rules, 1955 the standards of buffalo's milk are applicable to such samples. 12 samples were genuine and 24 were adulterated. 19 of the adulterated samples contained added water ranging from 5 to 40 per cent, 1 sample was dificient in fat to the extent of 76 per cent and 4 samples were dificient in fat besides containing added water.

4 samples were described as Powder Milk, 2 as Toned Milk and 1 as Reconstituted Milk making a total of 7 samples. All seven were adulterated. One was deficient in fat and the other six were deficient in both fat and solids-not-fat.

Among the 3,547 milk samples of all categories except the toned and reconstituted milks dealt with in the previous paragraphs 1,385 samples contained added water and the average content of added water in these 1,385 samples was 19 per cent as against 18 per cent in the year 1956.

Butter :--497 samples were analysed, of which 403 samples were genuine and 94 were adulterated 82 of the adulterated samples the water content ranged from 17.5 to 72.8 per cent, the prescribed maximum limit for water being 16 per cent under the provisions of the Prevention of Food Adulteration Act, 1954. 29 of the 82 adulterated samples also contained fat other than milk fat besides containing excess water. The remaining 12 adulterated samples of butter had a water content within the prescribed maximum limit, but however, contained foreign fat. The extent of adulteration with Foreign Fat among the 41 samples of butter which contained Foreign Fat ranged from 7 to 58 per cent, the average extent of adulteration being 23 per cent against 28 per cent in 1956.

Ghee:—725 samples were analysed. Of these, 36 samples were adulterated with fat other than milk-fat, the common foreign fat used for the adulteration of these samples being Vanaspathi (mostly hydrogenated groundnut oil). The extent of adulteration ranged from 11 to 97 per cent. The average admixture or foreign fat in the adulterated samples was 48 per cent as against 52 per cent in 1956.

Gingely Oil :--751 samples were analysed, of which 201 were adulterated with groundnut oil to the extent of 10 to 80 per cent, 3 samples were adulterated with Niger Seed Oil to the extent of 80, 85 and 95 per cent and 27 samples were adulterated with both groundnut oil and Niger Seed Oil, the extent of adulteration ranging from 70 to 100 per cent. Niger Seed Oil as an adulterent of Gingely Oil is a recent introduction in Madras City. Niger Seed Oil is an edible oil derived from the black

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achones of Guizotia abyssinica of the Compositae family. The seed is known in Tamil as Uchellu (2. #@#@#@)

Groundnut Oil:-73 samples were analysed, of which 9 samples were reported as adulterated and they contained Gingelly Oil to the extent of from 25 to 100 per cent.

Cocoanut Oil:-101 samples were analysed and all the samples were genuine.

Coffee Powder:—245 samples were analysed. One of these samples was described as Dilkush Coffee Tablets with Chicory. The sample of tablets was reported genuine as Chicory had been correctly declared on the label. Of the 244 samples of Coffee Powder, 26 were adulterated. Of the 26 adulterated samples, 3 samples contained Preparation of Bengalgram to the extent of 10, 15 and 50 per cent, 9 samples contained preparation of Data Seed to the extent of 10 to 55 per cent, 11 samples contained preparation of mixture of Bengal Gram and Date Seed to the extent of 10 to 85 per cent, one sample contained 45 per cent of mixture of Pea and Date Seed, one sample contained 25 per cent of mixture of Chicory and Date Seed, and one sample contained 20 per cent of mixture of Chicory, Bengal Gram and Date Seed.

*Tea*:—98 samples were analysed and 2 of them were reported as adulterated as they contained an orange-red coal-tar dye as mentioned earlier in this report.

Ghee Substitutes:—12 samples were analysed, of which 2 samples were reported as adulterated as they consisted of mixture of Ghee and Vanaspathi and the remaining 19 samples consisted entirely of Vanaspathi.

Other Articles:—There were 134 samples under this head. These consisted of 13 samples of Thoovar Dhall, 37 samples of Turmeric, 32 samples of Arrowroot, 28 samples of Honey, 23 samples of Maida and one sample of Wheat Flour.

Out of these 13 samples of Thoovar Dhall, 8 samples were reported as adulterated as they contained a yellow coal-tar colour.

Of the 37 samples of Turmeric, 6 were reported as adulterated as they contained lead to the extent of 15 to 150 parts of lead per million parts of the sample (Maximum limit 2.5 parts per million). 32 samples of Arrowroot were analysed. According to the latest amendment to the definition of Arrowroot given in the Prevention of Food Adulteration Rules, Arrowroot should be the starch derived from either Maranta Arundinacca or Curcuma Angustifolia. 18 of the samples consisted of Maranta Starch and 9 of Curcuma Starch and these 27 were reported as genuine. 5 samples consisted of 100 per cent Tapioca Starch (Manihot utilissima) and were reported as adulterated.

The samples of Maida and Wheat Flour (24 samples) consisted entirely of Wheat Flour and all samples were genine.

28 samples of Honey were analysed, of which 11 were reported as adulterated. Of these 11 samples, one sample contained excess water and excess cane sugar, 6 samples contained Artificial Invert Sugar, 2 samples contained Artificial Invert Sugar and coal-tar colour, one sample contained excess water, Artificial Invert Sugar and coal-tar colour and one sample contained excess cane sugar, artificial invert sugar and coaltar colour.

Besides the formal samples dealt with above which were taken under the Prevention of Food Adulteration Act, 1954, 499 miscellaneous samples were examined in the laboratory during the year under report. Of these, 357 were samples of milk taken informally from the Madras Co-operative Milk Supply Union in order to check the purity of their milk supply before the milk was distributed to the City. There were in addition to the formal samples taken regularly from the sales and depots and delivery boys of the Union, which are included among the formal samples dealt with in the earlier part of this report.

A statement of the miscellaneous samples is given below:-

Nature of samples.

Result of Analysis.

- 357 samples of milk from the Madras Co-operative Milk Supply Union
- 1 sample of milk from Health Department.
- 16 samples of skimmed milk powder from Health Department.
- 1 sample of Butter from Health Department.
- 2 samples of Gingelly Oil from Health Department.
- 2 samples of Curry Powder from Health Department.
- 4 samples of Coffee Powder from Health Department.
- 2 samples of Ghee from Health Department.
- 18 samples of Boiled Rice from Health Department.
- 16 samples of Thoovar Dhall from Health Department.
- 1 sample of vinegar from Health Department.
- 2 samples of Arrowroot from Health Department.
- 2 samples of Barley from Health Depart-Department.
- 1 sample of Ginger from Health Department.
- 4 samples of Castor Oil from Health Department.
- 64 samples of Transformer Oil from Electrical Department.
- 1 sample D. D. T. from Health Department.

5 samples of food from private parties.

All Genuine.

Genuine.

All reported as unfit for human consumption.

Adulterated. (53.6% excess water and 8% Foreign Fat)

Both genuine.

No excess lead.

All genuine.

One genuine and one adulterated (41% Foreign Fat)

Report on quality was made.

- 12 samples contained yellow coal-tar colour.
- Not up to prescribed standard.
- Both adulterated. (100%) Tapioca Starch in both).
- One sample infested with insects.

Genuine.

- Two samples not up to standard.
- Reports on the inorganic and organic acidities were made.

Consisted of 100 % D. D. T.

Reports on the genuineness or otherwise were made.

A Tabular statement on the action taken on the adulterated samples of 1957 and those of 1956 pending disposal on 1st January, 1957 is given in the Appendix (Food Analysis—statement No. II). The number of samples reported as adulterated during the year under report was 2,202. Out of these, 95 samples were only very slightly adulterated and no prosecutions were instituted in these cases. Prosecutions of vendors were instituted in respect of the remaining 1,917 adulterated samples.

Of the 1,917 prosecutions instituted, convictions were obtained in 808 cases. There were three acquitals and one withdrawal of prosecution and the remaining, 1,105 cases were pending disposal on 31st December 1957. 529 convictions were obtained among the cases relating to the period prior to 1st January 1957.

The total number of convictions for the sale of adulterated articles of food in 1957 was 1,337 as against 1,037 in 1956. The amount of fines imposed in 1957 was Rs. 48,210 against Rs. 52,469 in 1956. The average fine conviction in 1957 was Rs. 36 against Rs. 51 in 1956. The maximum and the minimum fines imposed in the year 1957 were Rs. 250/- and Rs. 5/respectively. Among the convictions of the year 1957, in one case no fine was imposed but the vendor was sentenced to a term of imprisonment for three months.

During the year 1957, the staff of Public Analyst's Laboratory consisted of the following :--

Public Analyst :Sri Venkatachalam.Senior Assistant.Sri S. Sundaram, M.A.,Grade I Junior Assistants.1. Sri V. V. Ramana Rao, M.Sc.,<br/>2. Sri M. Ramalingam, M.Sc.,

Grade II Junior Assistants.

- 1. Sri C. Rajaganapathy, B.Sc.
- 2. Sri R. Mohanrajan, B,Sc.
- 3. Sri C. Sambandam, B.Sc.

During the past several years, I have been pleading for sufficiently deterrent fines in food adulteration cases. If our campaign against the food adulterator has to succeed, the Magistrate should co-operate with the administration by imposing deterrent fines. No doubt, the Prevention of Food Adulteration Act, 1954 has prescribed heavy penalties including imprisonment for food adulteration cases. But while on paper the penalties prescribed are frightening, in actual practice the punishments inflicted are not in any way commensurate with the intentions of the Parliament.

The Act was enforced from 1st June 1958 and the immediate effect was a spurt in penalties. The figures of average fine per conviction during the three years 1954, 1955 and 1956 are highly significant, the average fine being Rs. 20/- Rs. 36/- and Rs. 51/- respectively. 1954 was a period under the old Act. When the new Act came into force, heavier fines with the result that during 1956 the first complete year under the new Act the average fine was Rs. 51/-. But unfortunately during 1957 there has been a precipitous fall in the fines, the average fine being only Rs. 36/- as against Rs. 51/- in 1956. In fact, during 1957 a good many vendors have been let off by the Magistrates with a mere admonition.

In this connection, two points must be clearly remembered. There is no use of prescribing deterrent punishment for second and subsequent offences alone, as the large majority of cases are first offences and even in the case of second or subsequent offences, due to the various factors it would be difficult to prove the fact of the second or subsequent offence. The second point is a minimum penalty should be statutorily prescribed that no offender can get away with better punishment. It is therefore necessary that the Prevention of Food Adulteration Act, 1954 should be suitably amended to the effect that a minimum penalty as indicated is prescribed for first offence under the Act. I am more than ever convinced that the sine qua non for the success of the measures taken against the food adulterator is an optimum minimum fine of the even of at least Rs. 50/- first offence Pending the amendment it is hoped that the Magistrates would extend to us their help and co-operation in eradicating this great social evil.

#### THE WATER ANALYST'S LABORATORY

Introduction :- The inauguration of the 10 million gallon rapid sand filter plant on 12-11-57 by Dr. Radhakrishnan, Vice President of India, marked the completion of the first stage in the scheme for treating 40 million gallons per day. The salient features of the new system of water treatment are coagulation by chemical treatment, floceulation, clarification and mechanical filtration. The success of Rapid Gravity Filtration is, to a large extent, dependent upon the day to day analysis of samples since an efficient control of the purification process should be guided by the results of analysis. The role of the analytical chemist is as important as that of the Engineer-in-charge in any modern water works.

A certain type of fresh water leeches most probably belonging to the species "Barbronia Weberi" and the so called blood worms (Chironomous) were found in the distributed water in a number of places during January and February. The prevalence of these leeches and worms was subsequently brought under control by intensive sterlisation of the affected mains.

The results of water analysis during the year under report did not vary markedly from those of the previous year. The dose of chlorine to the filtered water was nearly double than that applied to the raw water. The Chlorinated raw water after passing through the sand filters deteriorated chemically to a slight extent and bacteriologically to a very large extent. Considerable amounts of H.S were produced in the beds. The distributed water was far from satisfactory bacteriologically and it was more so in the low pressure areas where the percentage of first class samples ranged between 3 and 52. Smell of H.S in the distribution system was generally absent as a result of sterlisation and frequent scouring of the water mains.

Scientific:—Water for the City is drawn from three main systems:— (A) The Kortalayar River System, (B) The infiltration gallery wells at Saidapet and Sembium, (C) The shallow wells at Adyar, Kodambakkam and Saidapet. The changes in the physical, chemical and bacteriological conditions of the water in each of these three systems during the year are briefly recorded below:

(A) The Kortalayar River System :- The river Kortalayar is dammed at Poondi 32 miles away from the City and Satyamoorthi Sagar has been formed for storing the flood discharges. The stored water is let down through the river bed and another channel (called the upper supply channel) into the Sholavaram Reservoir and from the latter, water is let down through the lower supply channel into the Red Hills Reservoir, which served as the chief source of raw water supply to the Water Works at Kilpauk. The three sources were visited almost once a month during the year for collection of samples and the result of their examination are shown in the appended Statistics Supplements Nos. 33 to 35.

(a) The sources of raw water supply:-1. The Satyamurthi Sagar (Statistics Supplement No. 32):-The total yearly rainfall at Poondi was 38.00" as against 52.44" last year. The highest rainfall of 10.10" was recorded in October. The average reservoir level varied from a minimum of 129.71; in October to a maximum of 137.67' in January.

Statistics Supplement No. 33:—The water was slightly greenish during the major part of the year and whitish in January. The temperature of water varied from  $28.0^{\circ}$  C to  $32.0^{\circ}$  C.

Coliform organisms were present in volumes varying from 1 cc. to 5 cc.

2. The Sholavaram Reservoir (Statistics Supplement No. 34) The total rainfall recorded in the catchment area of this reservoir was 37.25" as against 46.55" in the preceding year. The monthly average water level varied from minimum of 54.89' in October to a maximum of 61.91' in January. There was practically no rainfall from January to May.

The water was whitish in January and October and slightly yellowish or greenish during the other months. The temperature of the water varied from a minimum of 28.0° C in November to a maximum of 32.0° C in April and May.

Chemically, the value of the total solids varied from a minimum of 30.4 parts in January to a maximum of 47.6 parts per 100,000 in October; pH varied from a minimum of 8.0 in November to a maximum of 8.5 in May and June; dissolved oxygen from a minimum of 5.94 cc/L in November to a maximum of 10.9 cc/L in March; chlorides from 3.5 to 7.3 p.p.ht. Tidy's organic matter from 0.157 in January to 0.278 p.p.ht. in July; Nitrates and Nitrites were generally absent. Phosphates were found to vary from nil to 0.002 p.p.ht. Silicates varied from 0.4 to 0.6 p.p.ht. and the total hardness from 7.8 to 9.6 p.p.ht.

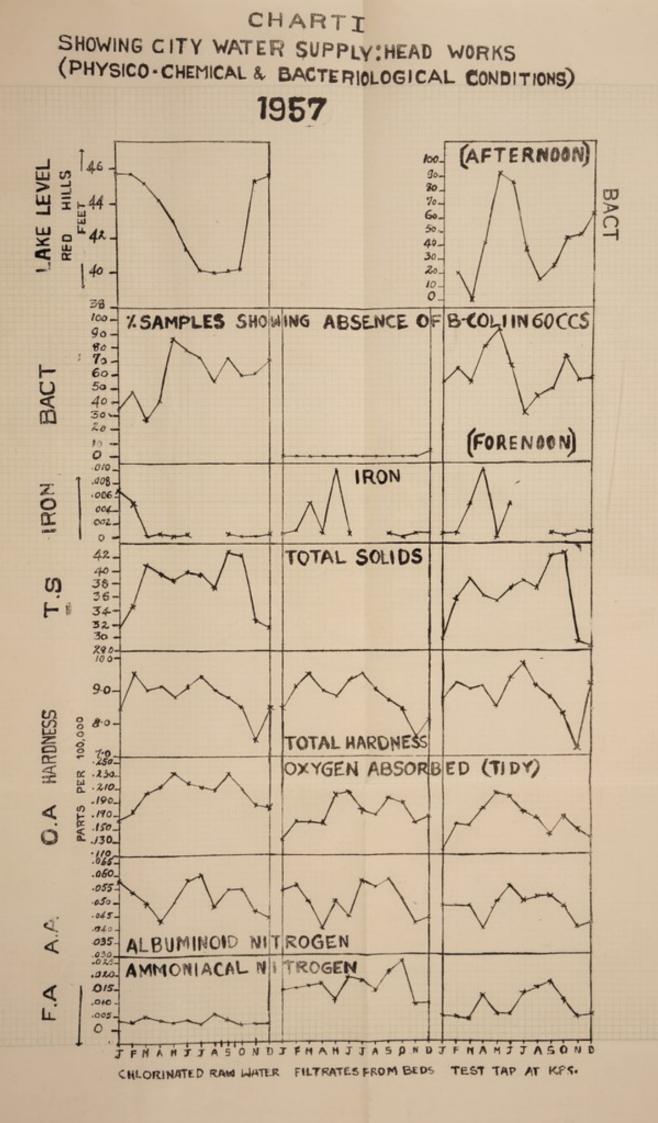
Coliform organisms were present in volumes varying from 1 cc to 5 cc.

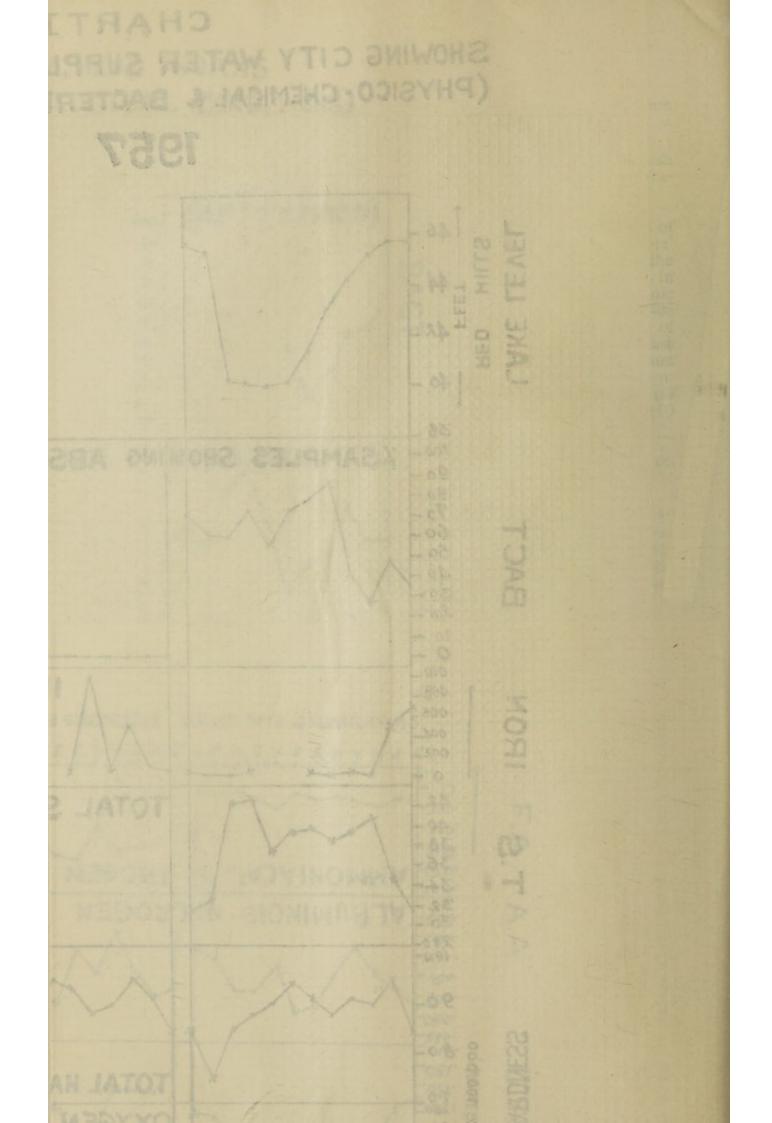
3. Red Hills Reservoir (Statistics Supplement No. 35).

The total annual rainfall in the catchment area of the reservoir was 35.71" as against 42.21" in the previous year. A maximum average rainfall of 13.58" was recorded in November. There was no rain from January to April. The monthly average water level varied from a minimum 39.99' in August to a maximum of 45.76' in January and February.

The colour of the water was slightly yellowish or whitish during the major part of the year and slightly greenish during a few months.

Chemically, the total solids varied from a minimum of 300 parts in November to a maximum of 516 p.p.ht. in October. pH varied from 81 in January to 85 in October; dissolved oxygen from a minimum of 56 cc/L





in July to a maximum of 7.35 cc/L in June; Chlorides varied from a minimum 5.2 parts in November to 7.3 p.p.ht. in June. Tidy's organic matter varied from 0.174 parts in January to 0.275 p.p.ht. in May. Albuminoid Nitrogen from 0.005 parts to 0.080 p.p.ht. Nitrites and Nitrates were generally absent. Phosphates were found to vary from nil to 0.002 p.p.ht. Iron varied between nil and 0.015 p.p.ht. and the total hardness varied from a minimum of 7.2 parts in November to maximum of 10.2 p.p.ht. in March.

Coliform organisms were found in volumes varying from 1 cc. to 10 cc.

(b) Chlorinated raw water at the Kilpauk end (Statistics Supplement No. 36):—The range of variations of some of the important results is given below :—

		Yearly range parts per 100,000
pH		8·1 to 8·4
Chlorides		4.9 to 7.3
Total hardness.	al succession for	7.5 to 9.5

Organic Matter :--

(

(

a) Oxygen absorbed (Tidy)	1112 CRO 3110	0.161 to 0.235
b) Albuminoid Nitrogen		0.043 to 0.060
Iron	(1 )	nil to 0.007
Average dose of Chlorine (p.p.m.)		0.04 to 3.00

The percentage of samples showing absence of B.Coli in 60 c. c. varied from 17 to 88 indicating that the process of prechlorination was not uniformly efficient.

(c) Sand filters and filtration (Statistics Supplement No. 37):-The range of variations of some of the important results is given below :

				early range parts per 100,000.
Ammoniacal Nitrogen			0.008	to 0.025
Albuminoid Nitrogen			0.040	to 0.058
Oxygen absorbed (Tidy)			0.132	to 0.205
Total hardness			7.6	to 9.5
Iron			nil	to 0.01
Dose of Chlorine (p.p.m)	8 to 200	enda gaiv	1.36	to 3.50

% sample showing absence of B. Coli in 60 c.c. varied from 0 to 5.

Inspite of the application of a fairly high dose of chlorine to the raw water feeding the sand filters, samples of the filtrates from the individual beds were of poor bacteriological quality. (d) Test tap (Statistics Supplement No. 38):-The range of variations of some of the important results are given below :--

Yearly range parts per 100,000.

Ammoniacal I	Nitrogen			0.003	to 0 <sup>.</sup> 017
Albuminoid N	Nitrogen			0.040	to 0.056
Oxygen absor	bed (Tidy)	oil <u>, i</u> o 1	ota wine an	0.117	to 0.201
Iron .				nil	to 0.010
% sample sho	wing absen	ce of B.	Coli in 60	c.c. vo	lumes
			Foreno	on 32	2 to 96
			Aftern	oon (	) to 92

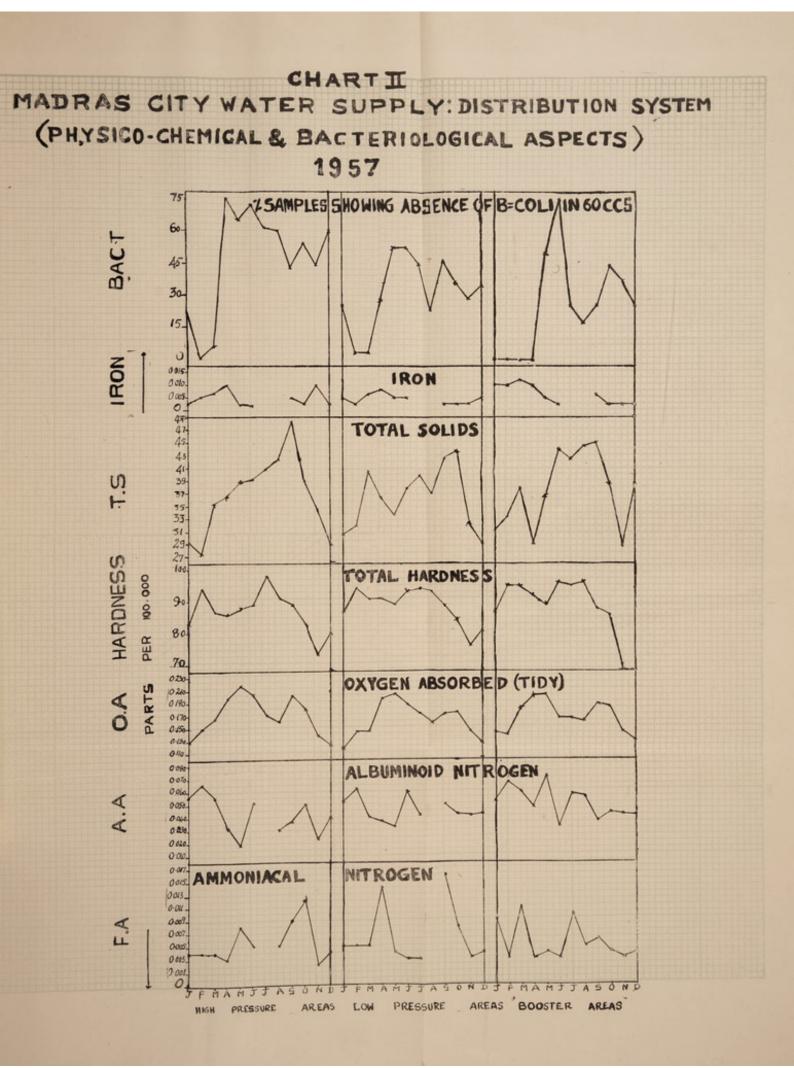
Bacteriological samples from the test tap at K.P.S. were collected twice a day and the bacterial quality of the test tap water was not uniformly satisfactory. The bacteriological quality of the test tap samples collected in the afternoon was generally poorer than that of the samples collected in the forenoon.

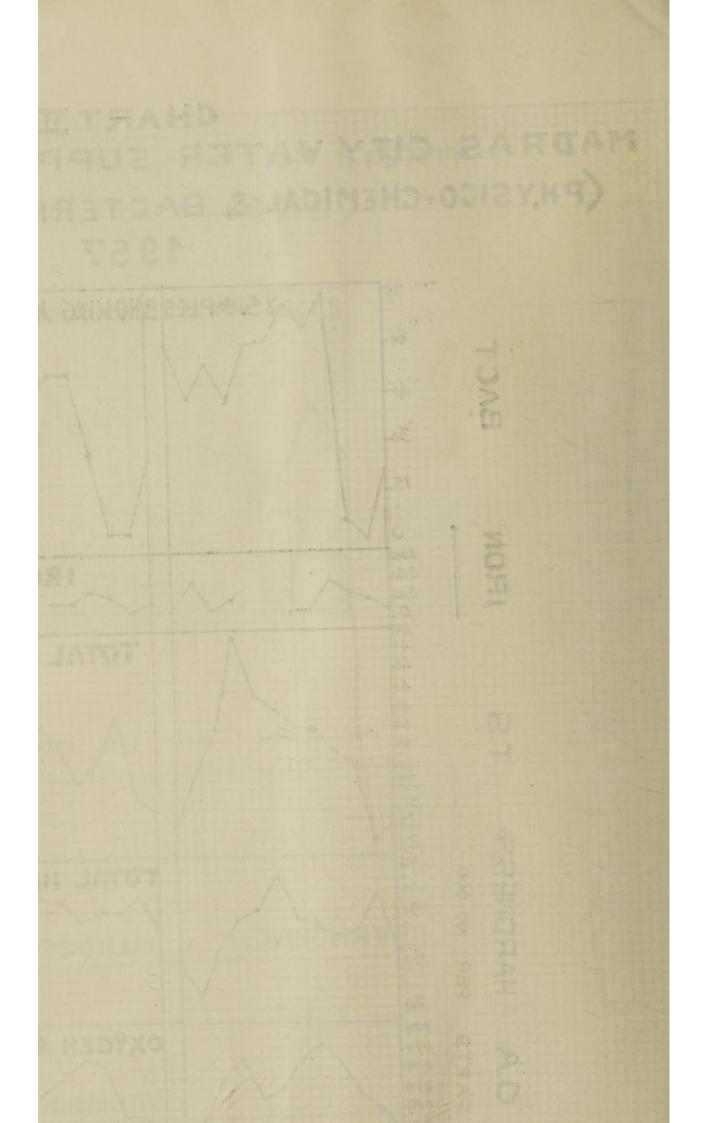
## Statement No. IX-Contains the chlorination data.

(a) Distribution system (Statistics Supplements Nos. 40 & 41):-

	H. P. areas	L. P. areas	Booster areas
Ammoniacal Nitrogen	0.002 to 0.012	0.003 to 0.016	0.003 to 0.011
Albuminoid Nitrogen	0.019 to 0.066	0.034 to 0.063	0.033 to 0.072
Oxygen absorbed Tidy	0.123 to 0.218	0.118 to 0.205	0.130 to 0.203
Total Hard- ness	7.3 to 9.8	7.6 to 9.4	7.0 to 9.6
Iron	Trace to 0.01	Trace to 0.008	M.Tr. to 0.012
% samples show	wing absence of I	B. Coli in 60 c. c.	
	0 to 75	3 to 52	0 to 75

The bacteriological quality of the water undergoes marked deterioration during transit from head works to the distribution system.





(b) The infiltration gallary wells at Sembium and Saidapet (Statistics Supplement No. 42.) :--

	Yearl	y ra	parts per 100,000			
	Se	mbi	um	Sai	dap	et
Ammoniacal Nitrogen	 Nil	to	0.011	Nil	to	0.004
Albuminoid Nitrogen	 0.003	to	0.072	0.002	to	0.006
Oxygen absorbed (Tidy)	 0.016	to	0.123	0.024	to	0.098
рН	 6.8	to	7.1	6.9	to	7.2
Total hardness	 14.2	to	24.5	17.0	to	25.0
Total solids	 46.2	to	80.4	40.8	to	66.0
Iron	 0.04	to	0.20	Nil	to	0.04

Statement No. 43 relating to water analysis in the Appendix reveals that the bacteriological quality of the water drawn from the distribution systems in Sembium and Saidapet was generally good.

(c) The shallow wells used as sources of water supply in the City (Statistics Supplements Nos. 44 to 49.)

The water from the well in Richard's Park, Saidapet was chlorinated and used for supplying public fountains in Guindy. The water from the two wells located at Urur in Adyar was pumped into the reservoir at Mandavalli, Mylapore, for supplying the new Gandhinagar Colony and other places at Adayar. The water from the shallow well, which is located in the United India Colony at Kodambakkam, was used for supplying public fountains in that area.

The water from the two wells at Saidapet and Kodambakkam was totally unfit for drinking purposes.

Samples were collected and analysed from the following eight wells. These wells are also used as sources of water supply in their respective areas. (Statistics Supplements Nos. 46 to 49.)

1. Well at Ganapathy Colony, Guindy,

2. Well oposite to Adam's Road, (Marina),

3. Well opposite to Wenlock Park (Marina),

4. Well opposite to Sunkuvar Street, (Marina),

5. Well opposite to Lloyds Road, (Marina),

6. Well in Nagappier Street, Triplicane,

7. Well in Chellappillayar Koil Street, Triplicane and

8. Well at Kottur, Adayar.

The water from each of the above wells was chlorinated and supplied. The chemical quality of the above wells excepting Nos. 1 and 2 was generally satisfactory.

h-25

(d) Sterilisation of water mains for the removal of growths and deposits in the City distributory System (Statistics Supplement No. 50).

	Yearly range in parts phy	Plant 1	Plant 2.
1.	Total number of days when the mains were sterilised.	201	30
2.	Quantity of chlorine used.	1,854·5 lbs	218.5 lbs
3.	Length of mains sterilised.	6 miles	7.5 furlongs
4.	Number of samples examined	220	Nil

During the year under report injection of chlorine was carried  $ou_t$  mostly to eradicate leeches and worms in the water mains in various parts of the City and also as a precautionary measure against the prevalence of cholera in certain parts of the City. The results of sterilisation were very encouraging in regard to the mains infected with leeches, etc.

A second cholorine injecting plant was commissioned towards the end of the year to carry out this work on a wider scale.

The following were the effects of injection of chlorine into the distributory system.

(a) Brown, flocculent pipe growths and deposits were dislodged from the sterilised portions of mains when scoured. These deposits consisted essentially of ferric oxide, organic matter and iron bacteria.

(b) An increase in the iron content immediately after sterilisation.

(c) Leeches and worms, if present, were immediately killed.

From the foregoing it is evident that the injection of chlorine has definite beneficial effect on the water mains but the incrustations in the pipe lines are several decades old and only repeated treatment can bring about the removal of the incrustation to an appreciable extent.

(e) A sum of Rs. 500 was realised by way of fees for analysis of private samples.

Staff :--Shri G. Devadoss, B.Sc., B.Sc., (Tech) Water Analyst, Messrs S. Nagarajan, B.S., C. N. Muruganathan, B.Sc., and S. Balasubramaniam, B.Sc., Assistant Water Analysts.

## ASHOK VIHAR

#### Administration Report for the Year 1957

The Ashok Vihar, Health and Recreation Centre was started in 1948 solely with the object of providing preventive and curative health services together with recreational facilities to about 300 under privileged families residing in and around the nearby slums. Year after year the activities have been expanding and during the year following services were rendered by the Centre:—

- 1. Service to member families.
- 2. Service to people in the locality.
- 3. Service to people in the slums of the City.
- 4. Service to personnel in the Medical and Social fields.

#### 1. Service to Member Families.

Families of the lower income group residing in and around the slums in close vicinity of the Centre enrolled themselves as members of the Centre on payment of a token monthly membership fee of Rs. 0.06.

Particulars of families are given below :--

No. of families on rolls on 1st January 1957	:	365	
No. of families enrolled during the year	:	72	
No. of families removed during the year.	5 :	98	
No. of families on rolls on 31-12-57	:	339	

#### Classification of member families according to place of residence

Periamet	Periamet Slum	Chinthadripet	Chinthadripet Slum	Choolai	Choolai Slum	Other areas	Slums in Other areas
56	100	15	64	53	24	13	14

Slum families-202

Non-Slum families-137

### Classification of families according to income

Income	Nil	Under Rs. 50 Rs.	51-100 Rs	s. 101–150	Rs. 151 and above
No. of families	27	149	136	15	12

Nature of Employment

Nature of employment	Unemployed	Unskilled	Skilled	Clerks	Teachers	Businessmen	Pensioners	Miscellaneous
No. of families	27	78	70	66	4	48	3	3

#### Classification of Families according to caste

Harijans	Hindus	A. Is.	Muslims	Indian Christians
152	126	27	22	12

#### Member families classified according to number of children in their families

No. of children	1	2	3	4	5	6	7	8	9	10	11
No. of families	70	78	64	52	28	21	7	4	2		1

#### (Average of 3 children per family)

The social and economic conditions of these families have been very low and as a natural result their cultural and health standards have been equally low, yet one sees an attempt by these families to raise their social and economic levels, and the Centre has been helping and guiding them in their endeavours.

Health Check-up:-913 general, 197 dental and 288 eye and 83 checkups were done during the year. As the Centre was without the Asst. Director for 4 months, the total number of health check-ups done were lower than that of the previous year. The Hony. E.N.T. Surgeon had gone out of the India for 5 months hence the number of E.N.T. check-ups were also much lower than that of last year.

Out of the 601 members re-examined 437 showed increase in weight, 138 reduction in weight and 26 stationary in weight.

It is gratifying to note that many members are beginning to realize the value of health check-up especially for their children. These periodic health check-ups have been useful in diagnosing diseases in their initial stages and many a disease that would have become serious were diagnosed and treated early, thus preventing the person from absentation from work, loss of daily wages, unnecessary worry and undue physical damage. Only about 5% of the persons examined showed no apparent defects.

The following defects and diseases were noted during the year at the time of the health check-ups among 913 members examined :—

Summer .		New Members	Old Members
Deficiency diseases		98	136
Nutritional Anaemia		23	20
Round worm infestation		43	37
Influenza		10	51
Tubercular Infection		5	9
Hansons		2	4
Venereal Diseases		2	Nil
Inf. Hepatitis		1	1
Filariasis		Nil	3
Malaria			5
Typhoid		Contraction of Townson	5
Dysentery & Diarrhoea		6	10
Rh. Heart disease		inoitestiment 1	3
High Blood pressure		2	inorgo 3 day
Inf. Paralysis			1
Epilepsy			furth treatme
Scabies		21	1011 1013 mil
Tonsils & Adenoids		26	32
Middle Ear Disease		5 mat 5	6
Refractive Error			20
Hernia		dit in tan har2, soine	vilab to .04
Hydrocele	onin	2 date mont 2	ulsb m. 11
Pymshoea Alveoeasis		II mitonba4, ebire	8 o. of deliv
Eosinophilia		og.la billaubrog esira	lipb to of
Na our rollo an kinki		Total 312	601

Number of members improved of their diseased condition :--

Def. Diseases	49
Nutritional Anaemia	17
Round Worm Infestation	31
Influenza	
Tuberculosis	8
Venereal Diseases	bo 1 2
Leprosy	3
Rh. Heart Disease	2
Typhoid	5
Scabies	10

Dysentery		Shill	13
High Blood Pressure	e name	A SECONARD	2
Filariasis	h.	defects an	3
Malaria		dibere di	5
Inf. Hepatitis			2
Eosinophilia			r

4

1

Special treatment arranged at the Government Hospitals is listed below.

Tonsils & Adenoids					
Appendicectory					
Lobectomy					
Herniotomy					
Tongue Tie					
Hydrocele					
Haemmorrhuids					
Refractive Error Cor					
Delating and Curett	Delating and Curetting				

363 Pathological investigations ware made of which 235 were Pathological.

157 members were referred to various Government Hospitals for further treatment. 58 persons were referred to the Corporation T.B. Clinic of which 14 were positive for Tubercular infection. 42,631 prescriptions were dispensed at the dispensary.

No. of ante-natal examination done a	at Ashok Vihar 62	9
No. of ante natal Examination done	at other M. & C.W.Cs. 16	0
No. of deliveries conducted at the Co	entre 75	2
No. of deliveries at home with Centre	e Midwives 1	9
No. of deliveries conducted at Hospit	tals 1	7

No. of deliveries conducted at home with barber midwives

Diseases directed during Ante-Natal Examinatious.

1

B. Deficiency		53
Anaemia	a passound o	34
Dyspepsia	ananici a	32
Pre-Eclamptic Toxaemia	A Istantin	2
Contracted Pelvis	into Unit	1
Hydromnios		1
Rh. Heart disease	dia	1
High Blood Pressure	Ald Linen	2
Jaundice		1
Syphilis	and ment	1
Leprosy		1
	2001	5

Complications of deliveries at the Centre:-

Twins	 ···· Section	4
Macerated Foetus	 	4
Still born	 14	8
Prematurity	 	9
Footling	 	2
Breech	 	1

Complications of deliveries of cases sent to Hospitals:-

Ante Partum Haehme	Qange due	to Placenta	Pralvia	EL 3.01	1
Brow presentation					1
Breech presentation					1
Face presentation			··· sin	190.112	1

Five babies were extracted by forceps. One was perforated and another delivered by Caesarian operation.

Family Planning :---

No. of houses visited 103	No. of cases contacted I25	Volunt reg	ary cases istered 13	No. of red by	cases r C.W. ( 7	egiste- Centres
Total No. of cases booked 21	F. P. Appliand Diaphragm & Jo 1		reception 18	Sterlit 2	y Fa	ailures 2
Creche :—	inter antipil		2	itivitin	ino)	
No. of re	olls on 1-1-195	57	Dygenflary	3 85 10	78	
No. admi	itted during the	year			28	
No. remo	oved during the	year			38	
No. on r	olls on 31-12-5	57			68	
Causes of Removo	<i>I</i> :—					
Admitted in s	schools at the end	of the	year			16
Change of rea	sidence					6
Mother found	d not working					3
Stopped with	out reasons			there b		10
Deaths			(entranta)			3
Causes of Deaths :-	- her here					
Post meas	sles complication	s.			2	
Persistent	t diarrhoea			Contract of the	1	

103

The Fol	lowing Diseases were detecte	d and treat	ted :-		
	Vit. A. D. Def.		Terret	46	
	B. Def.	Petros T	Magara and	12	
	Chr. Rhinitis		Sall born	56	
	Bronchitis		Promutarit	85	
	Influenza		Pooring-	43	
	Scabies		Brucht	48	
	Conjunctivitis		lary	13	
	Diarrohea & Dysentery			18	
				3	
	Inf. Hepatitis	ang ogias	O emiliati m		
	C. S. O. M.		····	13	
	Caries teeth			1	
	Inf. Herdia			1	
	Anaemia			19	
	Measles			6	
	Chicken-pox	200 ····	112 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	
	Whooping Cough			11	
	Mumps			3	
	Multiple Boils			12	
Improve	ments Noted :				
	Vit. A. D. Def.	m Walkers	125	33	
	B. Def.			7	
	Chr. Rhimitis	The state		45	
	Bronchitis	With Las. m	entring	57	
	Influenza			43	
	Scabies			30	
	Conjunctivitis			13	
	Diarrohea & Dysentery	1	-i no effor	17	
	Inf. Hepatitis C. S. O. M.	וב ליום צבתו	minel, darin	3	
	Anaemia	lov off an	in the second	8	
	Measles	12-01-	IE no ullos	4	
	Chicken-pox			2	
	Whooping Cough			11	
	Mumps			3	
	Multiple Boils			12	
Laborate	ory Investigations :			10 02 10	
	Blood count : 7	fotal	inter transi	53	
		fotal		27	
	Low H. B. %			4	
	Low R B C count			2	
	High W. B. C.	ren	fines "bland	40	
	High Lympho			17	
	High Eosinophiles			17	Tantin
	Smear for M. P.	ava (8	and first	1 (1	Negative)

Motion.				
	Round Worm ova		mountering	29
	E. H. cyst			10
	Giardia	antibiol	10 130.2 X	8
	Cellular Exudates			14
		Total		65
Immuniz	zation.			Minneiller .
	Triple Immunogen			28
	T. A. B.		PR 49 100 1	12
	Primary Vaccination			8
	Secondary Vaccination	10 AT		35
	Manteoux test			20(14 Negative)
	B. C. G. Inoculation	alig alinola		14

105

The present accommodation provided for the creche children is far from satisfactory. These children are not provided with a separate play-ground with the necessary out door recreational equipments. For a better up bringing of these children the creche must be to a certain extent secluded from the other activities of the Centre. When the creche was shifted to the present place due to the expansion of the maternity section, recommendations were put forth to erect a suitable building for the creche, but so far it has not been executed. It is hoped that this draw back would receive due consideration from the authorities concerned for the early rectification.

#### Recreation Sections.

Average attendance on week days		30
Average attendance on holidays		46
No. of girls of the shool going age attending school	1000	196
No. of girls not attending school		15
No. of girls employed		5
No. of girls engaged in domestic work		1

The women and girls section which was housed in the auditorium was changed to the men and boys' section as they wanted some privacy. The bath rooms attached to this section were utilized by them for their personal hygiene.

#### Hand Work.

The girls were taught needle work, card board work, badminton net making, paper flower making, pot painting and ragdoll making. A few grown-up girls were taught the use of the sewing machine.

#### Cultural.

Library books were issued. Quiz days were held. Story writing and story telling competitions were held. Girls were made to talk to other girls and women on subjects connected with promotion of health and prevention of diseases. Music, dancing and dramas were held from time to time. In-door and out-door games were held and excursions to holiday resorts were made.

h-27

#### Women's Section :--

#### Average attendance

#### ... 22

Talks and demonstrations were held on nutrition. The Public Health Nurses, as a part of their teaching and training, gave them weekly talks and demonstrations on matters pertaining to women especially with regard to their health and house keeping.

#### Hand Work :--

Badminton net making :--In addition to the five nets made last year 25 were made this year. 29 nets were sold to the Education Department of the Corporation of Madras for their use in the various play-grounds of the City. The profits of Rs. 14-50 was distributed to the members who made the nets.

The use of the sewing machine was taught to 8 women.

327 garments belonging to the various sections of the Centre were mended. The members made the following garments and articles for their personal use and thus saved tailoring expenses.

Blouses 89, Skirts 25, Frocks 19, Bodice 23, Pillow Cases 4 and Bags 2.

Some women who lived by tailoring used the Centre's sewing machine.

Six earthen ware vases were bought and designs painted and sold along with paper flowers which were also made by them.

#### Boys Section :--

Average attendance on week days		36
Average attendance on holidays		49
No. of boys of the school going age attend school	ling 	153
No. of boys not attending school	11.10	16
No. of boys employed		2

As the boys and men section had to be transferred to the auditorium there was no facility for attending to their personal hygiene owing to lack of bath rooms.

Cultural :-- Talk were given daily to boys on health, responsible citizenship, dignity of labour and usefulness of spending leisure hours. Quiz programmes and oratorical contests were held.

In-door and out-door games were provided. Foot-ball has been their chief interest. Boys were taken out on excursions also.

Men section :--

Average a	ttendance of	n week days	 35
Average a	ttendance o	on holidays	 50

In door Recreation :- Table tennis, carroms and boxing were the indoor games. In the junior state carrom tournament 4 singles and 2 doubles teams were entered. One member F. R. No. 14 M. K. Raju was runner-up in the Singles Tournament and the doubles pair lost in the semi-finals

In the State Boxing Association Tournament, one member, F. R. No. 183, Mr. Gangarao, won the father weight bout.

#### Out-door Games :--

#### Volley-ball, Foot-ball and Badminton.

Daily out-door games were provided and quite a number of friendly matches with other clubs were played in the above three games.

Histrionic Section :—A greater interest was evinced by members in this section. Two dramas enacted during the anniversary celebrations were written, directed and acted by members themselves. A few of them have attained quite a fame in acting and other dramatic associations have invited them to take part in their dramas.

Visits to homes of member families :--Work in the slums and homes of member families had to be curtailed during major part of the year as the Mobile Medical Vans were otherwise engaged in Influeza and Cholera epidemics. However 126 visits were made to the homes of member families by each of the staff. These contacts of families enabled the staff to foster better public relationship, to educate them on health and hygiene, to follow infants, expectant mothers, the ailing and the convalescing.

2. Service to people in the locality :--

The following services were provided by the Centre to the people in the locality.

1. Dispensary service both mornings and evenings.

2. Day and night maternity service.

3. Family planning service.

3. Medico social work in the slums of the City :--

14 visits were made to other slums in the City with members for doing social and health work for the people in the locality.

Work was done in the following slums:—Erukancherry, Adayar Zamin, Olcottkuppam, Varadarajapuram, Namasivayapuram and Vivekanandapuram.

#### Service to Personnel in the Medical and Social Fields

The students from the Madras Medical College continued to follow the families of Ashok Vihar allotted to them and gave them help whenever they were in need.

The student of the Social and Moral Hygiene Course continued their family case work among the families.

Three Students from the Madras School of Social Work were given training in recreation at the Centre.

A fresh batch of Public Health Nurse Trainees were taught Sociology and also given field work in the slums.

A new batch of Health Visitors were trained in the various sections of the Centre in addition to slums visits.

Lecture on "Positive Health" was given to six batches of Community Projects Personnel undergoing traing in the Orientation Training Centre, Poonamallee. Six Child Attender Trainees sent by the Indian Red Cross Association were given training in the creche and Maternity Sections.

Batches of student of the sixth form of the Chinthadripet Girls High School were given training in mother craft.

Others who were benefited by their visits to the Centre were :--

Students of Stanley Medical College,

Students of College of Integrated Medicine,

Students of Vellore Medical College,

Student Nurses of Vellore Christian Mission Hospital,

Student Nurses of Stanley Hospital,

Student Nurses of Government General Hospital,

Students of the School of Social work,

Student teachers of the Teachers College, Saidapet,

Student Trainees of the Co-operative Training Institute,

Home Science Students of the Women's Christian College,

Students of Social Work of the Stella Maris Colleg?,

Students of Social Work of the Loyola College, and

Students of the Balar Kalvi Nilayam, Madras.

Film Shows: A total of 78 films were exhibited on 28 days as part of Health Education programme. A total of about 8,259 witnessed the films.

General: All festive occasions were suitably celebrated. We are grateful to the Hon. Members of the City Council for Elloting Rs. 100/to Centre for distribution of sweets to the children on Republic Day. The Hon. Councillor Sri M. Soundraraj hoisted the flag and distributed sweets to children.

We are thankful to Sri P. V. Rajamannar, Ag. Governor, for inviting 10 children of our Centre for the Deepavali Party held at Raj Bhavan. The children thoroughly enjoyed the party.

The Sixth Mayor's Cup Foot-ball Tournament for slum boys was successfully concluded and on the final day the Worshipful Mayor Sri K. N. Srinivasan praised the work of the Centre and distributed the trophies to the winners and runners-up.

Winners : St. Anthony Sangam Foot-ball Club, Periamet.

Runner-Up: Y. M. C. A. Boys' Town.

The 8th Anniversary Celebrations were presided over by the late Sri A. J. John, Governor of Madras, who said that the work done for the poor people in the locality was laudable. The function ended with a variety entertainment by the members. On the next day a drama "VAZHATHERIYATHAVAN" was staged by the members of Ashok Vihar when Sri M. Radhakrishna Pillai, B.A.B.L., leader of the Congress Party in the City Council presided and commended the work done at the Centre and also offered to construct an open air stage for the benefit of the members. On the following day a baby show competition was held when nearly 50 babies took part. Sri K. Ramadoss, the Deputy Mayor presided and distributed the prizes for the sports held during the year. In his presidential speech he was eloquent about the quality of work done and wished the Centre would continued the good work for many years to come. This was followed by a drama "NEETHITHAVARIATHU" enacted by the members.

19 members were found to be suffering from tubercular infection. 3 were admited in T. T. Hospital, Konnur High Road and after several months they were discharged after immense improvement. Two died of Haemoptysis, 5 have been getting treatment from the various T.B. Clinics 4 bought their own medicines and 5 were treated with drugs donated by other members.

Thus the members of this Centre are beginning to be aware of the need for helping their sick fellow members.

An unmarried mother, who was discarded by her husband and parents, sought our help to admit her infant in Bala Mandir and we arranged for the infant's admission.

During the 'flu' epidemic, Ashok Vihar was the head quarters from where medicines were prepared and sent by Mobile Medical Vans to various places in the City.

More Milk Day was celebrated on 14-4-1947 in co-operation with the Department of Animal Husbandary, when about 2,000 lbs. of toned milk was distributed to children.

F. R. No. 31, Amaravathy, who completed her midwifery course, has secured a job at Porur.

F. R. No. 9, Agnes, was admitted in Midwifery Training Course.

F. R. No. 273, Dakshinamurthy has become a father for the first time after 22 years of married life.

Under the joint auspices of the Indian Council of Child Welfare and the Corporation Madras, a Baby Show was arranged in all the Corporation Child Welfare Centres in Madras. More than 3,000 infants participated. The final selection was made at Ashok Vihar when Srimathi Bhakthavatsalam presided and Srimathi Subramaniam distributed the prizes to the winning babies.

Annual sports was conducted when a large number of men, women and children took part.

1,000 file pads were made by the members in the Binding Section and supplied to Health Department.

The children found to be suffering from Diphtheria were admitted in General Hospital and both of them were cured.

On the Independence Day the Health Minister, Sri Manikkavelu Naicker, hoisted the flag and distributed laddus to children. The Collector of Madras, Sri Thayappa Thevar, was also present.

F. R. No. 302. Mallika, was admitted as a free boarder in the hostel with free scholarship, in the Second Form of Lady Willingdon High School.

F. B. No. 278, Doraivelu was awarded a cup for good acting by the Southern Railway Club.

Most of the members were inoculated against Cholera and vaccinated against Small-pox.

522;

h-28

2, 852 lbs. of skimmed milk powder was used to distribute milk to the following daily:--

beitbion	Children below 6 years	discharged a	months they 26 re
	Children above 6 years	ave been getting	Hacmoptysis, 87
	Expactant mothers		other membell.
30	Nursing mothers	didi to credito	18 . and 1
	ow members.		172 Int rol-boon

# Marriages and the tot be being who was always to be and the Marriages

4 members got married.

## Deaths : head ada any andiv and A simebige 'off' ada gained

There were 22 deaths among the members. The details are furnished below.

bonot to Age Mail mode and	Male	Female	Total
Under 1 year	0.00 <u>o</u> dw	2	F. P. No. 3
Between 1-6	1 nd 65minth		
Between 6-12		1	1 4
Audlts	2 .511	Loina Joan	ney 11 5 offit omi
Above 50 years	2	Solidson 1 mild	od) 15'310
Total	9	12	22

#### Causes Among Children:

## Causes Among Adults:

Dysentery & Diarrohea	0023	7	Pulm. T. B 2
Deficiency diseases	·	2	Cirrhosis of liver 1
Broncho Pneumonia	1 27.01	2	Pregnancy vomiting 1
Primary complex		1	Bronchogenic carcinoma 1
Influenza		1	Paralysis 1
Accidental drowning		1	Typhoid 1
			Heart failure 1

#### Jobs :

2 men and 1 woman were secured jobs. 4 members were secured temporary jobs in Southern Railway as khalasis.

10 members were secured temporary jobs in the Park Fair Exhibition.

## Gifts, Grants & Donations :

.

The State Government was pleased to sanction a grant of Rs. 10,000/-.

Out of the interest accrued on the Donation of Rs. 1,000/- made by Sowbaghyavathi Neelambal Sisu Samrakshana Kishera Dharma Endowment, milk was supplied to the creche children.

The Guild of Service (Central) through the kind offices of Padmasri Smt. M. C. Jadhav, the Hon. Secretary, received the following :

- 11 Bags of wheat
- 25 cases of Milk solids
- 2 barrels of skimmed milk powder
- 20 cases and 1 tin of multipurpose food.

Srimathy Kandaswamy of Vepery distributed buns and sweets to all the creche children and six half-pants and six shirts to deserving children on the Christmas eve.

22 tins of Glaxo milk food were donated by Messrs. Glaxo Ltd., and they were distributed to needy infants.

100 plastic spoons were given by Messrs. Nestles and they were presented to the infants who took part in the Baby Show competition held on 20-11-57.

We are grateful to the above organisations and the individuals for the gifts to the Centre which were duly distributed to the deserving members.

Thanks are also due to U.S.I.S., the British Council and the B.I.S. for the loan of films and back numbers of periodicals. The Centre is also indebted to the W.H.O. and the International Planned Parenthood Association for sending us literatures and pamphlets periodically.

#### Visitors:

The Centre had the honour to receive the following dignitaries during the year :--

1. Dr. W. R. Coutelle, Pediatrician, Berin Academy of Science.

2. Dr. Kanneth Kindelsperger, T. C. M. Advisor in Social Work Education.

3. Prof. Pbiper, University Children's Hospital, Leipzig.

## STADIA PLAY-GROUNDS AND PARKS

Stadium :- Peoples' Park.

The area of the Stadium is 13 acres. The area of the central arena in the Stadium is 8 acres. There are 6 Cricket Pitches in the centre and Football and Hockey fields on either sides. The Stadium galleries are designed to accommodate about 40,000 spectators. The Stadium is mainly let out to cricket, foot-ball, hockey and other sports.

### Tennis Stadium, Egmore:

The area of the Stadium is 3 acres. There are 3 tennis courts having a seating capacity of about 7,000 spectators.

### Play Grounds and Parks:

Besides this, the Corporation is also maintaining play grounds and Parks for the benefit of the citizens of Madras. Out of the interest accrued on the Donation of Rs. 1,000/- made by Sowbaghyavathi Meelamhal Sieu Samrohyana Kishera Dharma Hadowncott milk was supplied to the creeke chiltren.

The Guild of Service (Central) through the kind offices of Franmeri Smit. M. C. Jadhaw, the Hon. Secretary, received the following :

11 BASS OF WEEKL

other ali Milk sette

2 parters of skinwhed will now de

boot seemingulure to mit ban askno 00-

Srinarby Kandaswamy of Vepery distributed buns and sweets to descrying all the ercone objects and six tuil-pants and six ekirts to descrying all three on the factoring eve.

22 tins of Gieve wilk food were donated by Messa. Glavo Ltd.,

100 stlassic poors wass given by Mosses thaties and they wate

We are genternitered to above organized one and the individuals for the gina to the Camra which were duly distributed to the deserving members.

Thanks are also due to U.S.J.S., the Batish Correcti and the B.L.S. for the fam of nime and back numbers of periodicale. The Centre is also indeback to the W.H.O. and the International Planned Parenthood Association for seading up literatures and gaugalitie realedically.

Y Dillor 9

The Centre and the hencur to receive the following dignituries

Dr. W. R. Coulotte Fediatrician, Jorin Academy of Science.

Education. Knameth Eindelsporger, T. C.M. Adviser in Social Work

Prof. Phipor, University Children's Despital, Loiozia.

STADIA PLAY GROUNDS AND PARKS

ATT ISTONE - antibara

The area of the Studium is 33 heres. The area of the central areas in the Studium is 8 acres. Unreg area 6 Crickel Pitches, in (ho confre and Foodball and Bookey fields on either sales. The Stadium auflatics are designed to accommeddle alment 50,000 spectators. The Stadium is maints let out to cruder, foot ball, hokey and other sports.

Perint Staduen, O unight P?

The area of the Stadium is I acres. There are 3 remain courts naving a realize suparity of about 7,000 spectators.

Play Grounds and Parks:

Besides this, the Corporation is also maintaining play grounds and Parks for the benefit of the sitizens of Madras.

#### **REPORT ON CHILD WELFARE SCHEME 1987**

In 1957, Child Welfare Scheme expanded its activities by adding one Child Welfare Centre in 40th Division, by increasing 25 more beds in the maternity wards and by starting examination of blood in 5 more Centres. The position at the end of the year showed that the Corporation maintained 41 Child Welfare Centres (20 of them having wards with 295 beds) while blood examination was conducted in 15 Centres. Noteworthy feature during the year is a substantial reduction in both the maternal and infantile mortality rates being 09.4 and 108.25 per mille respectively as against 1.15 and 109.30 per mille respectively for 1956.

Staff :--Captain (Kumari) C. N. Rukmini, M.B.B.S., Lady Superintendent, Child Welfare Scheme was in-charge of the Scheme during the year but for the leave period from 20-5-57 to 21-8-57 when Dr. (Mrs.) V. S. Krishnaswamy, M.B.B.S., D.M.C.W. (Cal.), C.P.H. (Lond.), acted as Lady Superintendent.

There were 31 Asst. Surgeons, 34 qualified Health Visitors, 8 General Trained Nurses, 234 Midwives and 30 Compounders during the year under report.

Pre-natal Clinics — The pre-natal work forms an important link between expectant mothers and Child Welfare Centres. Pre-natal work is conducted by the Asst. Surgeons thrice a week regularly in each Centre. The expectant mothers are given thorough medical check-up on their first visit and thereafter re-examined once a week or a fortnight as the individual cases demand. 41,020 expectant mothers attended the clinics and were given medical advice and treatment by the Asst. Surgeons against 39,527 in the previous year. An appreciable -number of mothers were benefitted by instructions, advice and treatment given at these Centres.

Maternity Service :-- The total number of births in the City during the year was 69,197. The number of the labour cases that came under the care and observation of the Scheme was 31,655 as against 31,267 in the previous year. 17,378 births were conducted in the Corporation Maternity wards during the year, the figure for the previous year being 16,132. The number of house visits made by the Midwives was 2,17,116, by the Health Visitors 1,49,936 and by Assistant Surgeons was 20,668 during the year. Among the births that came under the care of the Child Welfare Scheme, there were 261 twins and 783 still-births.

Out patients Clinics :- The Assistant Surgeons conducted out-patient clinics in the Centres as usual. Infants, pre-school children, expectant mothers and nursing mothers were examined, advised and treated for minor ailments. 62,261 infants, 19,309 pre-school children, 40,936 expectant mothers and 71,619 nursing mothers represent the new cases that were treated and advised. The total number of cases attended was 6,30,880 inclusive of 4,36,755 old cases.

Serological examination of blood of ante-natal cases :--Serological examination of blood was conducted of all ante-natal cases that attended the 15 Centres. For all positive cases treatment with pencilin supplied by UNICEF was given free of cost. A statement showing the number of blood samples examined and the number of positive cases treated etc. during the year is given below :--

Total No. of blood samples examined.	Total No. of positive cases.	Total No. of positive cases that took full course of treatment.	positive	No. of positive cases that did not turn-up inspite of persuation by the staff.
14,153	750	178	142	430

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Milk supply:—Cow's milk was continued to be supplied to illnourished infants. The total number of such infants fed with fresh milk was 3,642. Skimmed milk powder received as gift from UNICEF was supplied to deserving infants over one year, toddlers, expectant mothers, and nursing mothers in the Child Welfare Centres.

Ambulance Service :-- Three ambulance vans were in service during the year. 2,106 cases requiring hospitalisation were transported by these vans to various maternity hospitals in the City.

Maternal Mortality :--Out of 31,955 labour cases that came under the care and observation of the Child Welfare Scheme during the year there were 30 cases of maternal mortality as shown below. (Figures for 1956 being 31,267 and 35 respectively.)

Name of Institution		Dear	Deaths in		
Name of Institution		1957	1956		
Child Welfare Centres		1	4		
Hospitals		28	31		
Private Doctors	DIMO	h			
Vaidians		1			
		30	35		
			-		

The maternal mortality rate works out to 0.94 per mille as against 1.15 per mille in the previous year.

Infant Mortality :-- The number of still births was 710 in 1956 as against 716 in 1955 while the total number of births for these two years were 31, 267 and 32, 285 respectively. The number of infants kept under the observation during the first year of life in 1957 was 30,557 against 31,569 during the year 1956. The mortality among live births was 3,308 while that in the previous year was 3,442. The whereabouts of 2,507 babies could not be traced. The Infant mortality rate worked out to be 108.25 per mille for 1957.

Creches :--Three creches were maintained by the Child Welfare Scheme at Royapuram, Broadway and Chetpet. They are intended for the benefit of working class parents whose combined income is Rs. 50/- or below per month. The working mothers leave their children at these creches before they go out for work in the mornings and take them back in the evenings. During their stay at the creches, the children are given bath, fresh and clean clothing, nourishing food and adequate rest. They are allowed to play games both indoor and outdoor. Then they attend nursery classes. Action songs, story telling and prayer are part of thn programme at these nursery classes. All minor ailments of the children are attended to then and there by the Asst. Surgeons-in-charge. The average daily attendance of children at Royapuram, Broadway and Chetpet creches was 22, 29 and 20 respectively.

Family Planning :--Six full time and four part-time Family Planning Clinics continued to work till 30-10-1957 when the Corporation had to adopt the 'Family Planning Intensive Scheme for Madras City ' sponsored by the State Government. The Scheme was inaugurated on 30-10-57 by Hon'ble Sri M.A. Manickavelu, B.A.B.L., Minister for Health and Revenue. This scheme envisages the establishment of 31 Information Centres for Fathers in the existing Birth and Death Registration Offices and 50 Information Centres for Mothers in the existing 40 Maternity and Child Welfare Centres.

B-29

The first stage of this Scheme was launched in Pudupakkam Clinic Area (Triplicane) comprising of divisions 37, 38, 39, 40, 41, 42, 43, 44, 45 and 50 of the City, with the establishment of 6 Mothers Information Centres in the Child Welfare Centres and 5 Fathers Information Centres in the B & D Registration offices existing in that area.

1.	The number of women given advice in the Family Planning Clinics during the year is	16,615
2.	The number of women given advice in the 6 Mothers Information Centres is	3,741
3.	The number of men given advice in the 5 Fathers Information Centres is	570

## REPORT ON THE PUDUPAKKAM PILOT FAMILY PLANNING SCHEME

The Corporation was running 6 Full-time and 4 Part-time Family Planning Clinics. The working and the desired results were not upto the high expectations. The Govt. proposed an Intensive Pilot scheme to be implemented by the Corporation financed by the Govt. This was called Pudupakkam Pilot Family Planning Scheme. The scheme covers ten divisions of the Corporation viz. 37 to 45 and 50. With the starting of this scheme the four part time Family Planning Clinics were abolished and one of the six full time Family Planning Clinics has been taken over as the Directing Centre for this pilot scheme. The centre is the one at No. 8, Nyniappa Maistry St., Triplicane. Dr. Mrs. S. Mathew is incharge of this Centre.

Amongst the new features of this pilot scheme is the approach to the fathers by male tutors and canvassers trained in the Family Planning Institute. This contact of fathers is an original and a new way. In addition to the usual direct approach to the mothers by full-timed staff nurses and social workers which is the usual line of activity in Family Planning work, fathers are taught and instructed and schooled in the methods of Family Planning so that the knowledge of both father and mother is more effective in its application and the responsibility to control the size of the family is laid on both the partners, thus perhaps the responsibility is more easily discharged. It is with this idea that five Father Information Centres are opened one in each of the Birth & Death Registration Offices located in :—

- 1. 369, Pycrofts Road, Triplicane,
- 2. 25, Pycrofts Road, Triplicane,
- 3. 25, Barbers Bridge Road, Krishnampet,
- 4. 63, Cutcheri Road, Mylapore, and
- 5. 101, Cutcheri Road, Mylapore.

Each centre is staffed by one tutor who has undergone training in the Family Planning Institute at the Govt. Hospital for Women and Children, Egmore. He attends the centre daily, from 6 to 8 p.m. He is paid an honorarium of Rs. 30/- p.m. The B. & D. Registration Clerk of this centre contacts fathers, who have had three or more children, and induces them to come to the Father Information Centre where the tutor instructs them the Family Planning methods either to space the pregnancies or to adopt the permanent method of vasectomy. Each canvasser is paid 50 nP. for every father registered by the tutor. Vasectomy is forced home if the father has had too many children. This operation is done free either in one of the Govt. Hospitals or by the panel surgeon Dr. D. S. Iyer in 79, Big St., Triplicane. These Father Information Centres are supervised and controlled by a Male Medical Officer, Dr. N. Natarajan.

Vasectomy and Salpingectomy, a permanent method of sterilisation in the female, are useful immediately in this way. After 4, 5 or 6 children for a married couple trial of any Family Planning method short of sterilisation may not stop absolutely further pregnancies. This risk is not worth taking when this sterilisation is at hand and immediately available. Nothing is lost but there is every gain for the father, mother and children. Sterilisation of women too with excessive multiparity has to be done only when she is to be confined. Therefore it is that vasectomy being far simpler and an operation that can be done any time, is advised though salpingectomy is equally easy and simple if the woman happens to be pregnent and is confined in a hospital. The resort to this method of sterilisation either in the father or mother will, ina short time, reduce the number of fathers having more than 5, 6, 7 or more children. This is in itself some improvement. When Family Planning methods become more popular, the necessity for this method will confine itself only to those fathers and mothers where avoidance of further pregnancy is a matter of imperative necessity for the sake of the mother.

Under this pilot scheme there are six Mother Information Centres situated in the six Child Welfare Centres of the Corporation in the following places:

- 1. 84, Lloyds Road, Royapettah.
- 2. 8, Nyniappa Maistry St., Pudupakkam, Triplicane.
- 3. 34, Brodies Road, Mandavalli.
- 4. 24/55, Soorappa Mudali St., Zam Bazaar.
- 5. Dr. Besant Road, Meersahibpet.

Each centre is staffed by a Staff Nurse trained in the Family Planning Institute and an Ayah. The nurse visits the houses of mothers who have been confined for the third or higher order of pregnancy and advises them to go to the Mother Information Centre where the lady doctor gives advice and instructs them in appliance methods if so needed and also supplements the advice, which the staff nurse gives. In addition they tell the mothers to send their husbands to the Father Information Centres where the tutors instruct the fathers in Family Planning methods. Similarly the fathers are advised by the tutors and canvassers to send their wives, if they have not already gone to the Mother Information Centresto the nearest Mother Information Centres.

In the All India Khadi and Swadeshi & Industrial Exhibition held from 23rd Dec. 1957 to 2nd Feb. 1958 the Family Planning Pilot Scheme section put up two stalls separately one for mothers and another for fathers. In these stalls models, posters and pictures relating to Family Planning were exhibited and Family Planning Manuals in English and Tamil were sold during the exhibition. In addition pamphlets of the speech on Family Planning of the Hony. Minister for Health on the Inauguration of the Family Planning Pilot Scheme in October 1957 were distributed in thousands. Also leaflets on Family Planning Scheme in the Madras City were given to the public.

From the opening of the Scheme from Oct. to the end of Dec. 1957 570 fathers have been contacted and registered in the four Father Information Centres. The fifth centre did not start working for want of a Tutor.

The Reports describing the work done in the Mother Information Centres upto 31st Dec. 1957, are fnrnished in the Statistics Supplement Nos. 68 & 69.

### SPECIAL HOME

The year opened with 205 inmates. The total number of admissions during the year was 166. The total number of disposals was 215. The details of which appear below :---

Particulars	Males	Females	Total
Strength on 1-4-57	145	59	205
Number of admissions during the year	51	91	152
Number of inmates transferred from Government Care Camp.	14		14
Number of inmates discharged on completion of detention period.	86	47	133
Number of inmates transferred to Daya Sadan.	4	under Stanle	5
Number of inmates released under Rule 69	20	18	38 215
Number of inmates escaped	13	4	17
Number of deaths during the year	8	11	19
Number of inmates in other hos- pitals on 31-3-58.	2	ses of proved	3
Strength on 31-3-1958	86	70	156

#### Admissions

The list of district to which they stated they belonged is given below:-

Madras City		59	Ramnad		3
Chingleput		19	Malabar		5
North Arcot		7	Andhra		4
South Arcot		11	Salem		1
Tanjore		3	Pondichery		3
Trichy	2.7	Da	Bombay	nei(	1
Madurai		4	Wanderers		45
			Total	Septi	166

The age period classification of inmates admitted during the year is furnished below :---

Between 20 and 30 years	
Between 30 and 40 years	41
Between 40 and 50 years	41
Between 50 and 60 years	23
Over 60 years	11
	Total 166

The period of committal of the inmates varied between 6 months and two years.

h-30

Medical Treatment :- The inmates on admission were in a bad state of health, suffering from malnutrition and some from Chronic diseases.

The leprosy cases were treated with sulphous and hydro carpus oils and infected ulcers were dressed and thus the disease in most of them was arrested or made non-infective.

Most of the diseases were treated in the Special Home but those requiring special treatment were referred to the hospitals and details are given below :—

	no. of cuses rejerred	••
Government Royapettah Hospital	28	
Government General Hospital	and to acitation 1 and	
Government Stanley Hospital	Ningthr of Sumater 1	
Government Kasturba Gandhi Hospital	and a 4	
Corporation Infectious Diseases Hospital	22 and 22	
tin a the the borns	56	

No. of cases referred.

The cases improved both in appearance and health with the adequate diet and medical treatment meted out to this in the Special Home.

#### Disposals

After allowing for remission for work and good conduct 133 cases were discharged on completion of detention period; 38 cases were released prematurely under Rule 69; 17 cases escaped from the Special Home and there were 19 deaths. The death of 19 for a total of 345 works out to 5.5% which is very low considering the state of cases on admission and the diseases most of them suffered from. The cases of death are as follows :--

Cause of death	Male	Female	Total
1. Diarrhoea (in Infectious Diseases hospital).	2	1	10m 3
2. Septicaenina complication in leprosy (in Special Home).	2		2
3. Emociation and delicity (in special home).	t sauty boi	7	7
4. Heart Failure (in Special Home)	100	V7102	2
5. Tuberculosis enteritis (in Special Home).	en 40 and	Berwa	1
6. Other causes	en <sup>6</sup> 0 an 0 yoars	Betwe Over	4
(deaths occured in Government Royapettah Hospital who did not give the cause of death)	1000082 7	bring	Tro
	0	11-1-	011 19

Visitors :---Official, Non-official, and ex-official visitors visited the home.

Sri S. Radha Iyer, student, Delhi School of Social Works visited the home on 8-6-57.

The Inspector-General of Prisons visited the home on 30-3-58.

Amenities :---Radio provided entertainment to the inmates. They have been supplied a Mridangam and Tabla.

Occupational Therapy :--Such of the inmates as were diseases and in a fit condition to do so, engaged in weaving section and helped in the garden. They also helped to keep the premises clean.

The following articles of linen were produced by the Weaving Section.

Particulars of produce.	Cost of Raw materials.	Cost of finished product.
Bandage 2717 Yds.	Rs, 350.00 (approximately)	Rs. 407.55 (approximately)
Gada Cloth 162 Yds.	Rs. 61.77 (approximately)	Rs. 121.50 (approximately)

The bandage cloth was utilised for dressing wounds and ulcers of the inmates.

The gada cloth was stitched into jibbas and given to the inmates.

#### Garden

Vegetables weighing about 2395 lbs were grown and helped to replace contract vegetables. The value at the contract rate of Rs. 0-1-3 per lb. works out to Rs. 187-1-9.

The staff of the institution are :

Superintendent and Medi	ical Officer		1
Nurses			2
Clerk			1
Compounder			I
First Grade Warder			1
Second Grade Warders			10
Male ward attendants			4
Peons			3
Cooks			3
Male Thottis		·	8
Female Thottis			5
Dhobies			3
Barbers			2
Gardener			1

EPROSY-		22		100 010
Infective	of Prisons visited the	33	141	74
Non-infective			9	26
ENTRAL NERVOUS SYSTE	M	Radio prov		
Mental Nervous	ant and Tabla.	1	11	12
Hemiplegin	Such of the inmates	Therapy :-	Involtana	0 1
Epilensy	gaged in weaving so	do so, en	of nottibe	100 18
Panaplegia	keep ins premises cle	ar nogion (	1	1.000
CIRCULATORY SYSTEM-		soloirn B	ingollot a	
Oedema			2	ction.
Anæmia	Cast of Raw	produte.	iculars of	3
Anæmia	"" materials.	1	1	2
		•		
kin Diseases—				
kin Diseases— Fungus	Re, 35000	- 	mdage 27	2
		67 71 1	1	2
Fungus FEFECTS		1 1 1	ndage 27	2
Fungus EFECTS— Blindness		67 (1 1 	1	2
Fungus EFECTS— Blindness Deaf mute	Re, 35000 (mproximately) Res 61-97 (approximately)	1	1 1 2	2
Fungus EFECTS— Blindness Deaf mute Pulmonary Tubercu	Re, 35000 (mproximately) Res 61-97 (approximately)	1 1 1 1 1	1 1 2 1 2	2
Fungus DEFECTS— Blindness Deaf mute	Re, 35000 (mproximately) Res 61-97 (approximately)	1	1 1 2 1 3	2

the at the controst rate of Rs. 0-1-3 per ib.

F ...

Below the list of condition found among the admissions for the year is given.

works out to Rs. 187-1

The staff of the institution are :

Nurses
Clerk
Compounder 5
First Grade Warder
Second Grade Warders
Peons Peons
Cooks
Maie Thoris
Fernale Thottis
Barbers
Gardener

#### CATTLE YARDS & VETERINARY DISPENSARIES

1.	No. of renewal applications received		1454
2.	No. of applications recommended		839
3.	No. refused	u busi	624
4.	No. of new applications received		158
5.	No. recommended		50
6.	No. refused		108
7.	No. of unlicensed Cattle Yards		760
8.	No. of Notices issued in respect of Item 7		789
9.	No. prosecuted for non-compliance		739
10.	No. prosecuted more than once	10	252
11.	No. improved and found fit for licence as a result of action taken	IT	163
12.	No. evacuated in pursuance of action taken		81

The services of Veterinary Assistant Surgeons in charge of the Conservancy Cattle Depots were made use of to look after the health of the milch animals.

#### **Public Cattle Yards**

The Corporation 'of the City of Madras, as usual, continued to maintain Public Cattle Yards at the following places :---

1.	41, Basin Bridge Road		7th Division.
2.	75, Venkatesa Naicken Street	e's bul	24th Division.
3.	Singanna Chetty Street		29th Division.
4.	Arimuthu Maistry Street	be	41st Division.

#### Veterinary Dispensaries

Four Veterinary Dispensaries are run by the Corporation of Madras at the following places:

'B' Dopot : Basin Bridge Cattle Depot, Kondithope.

'D' Depot : Harris Road Cattle Depot, Pudupet.

'F' Depot : Hamiltan Bridge Cattle Depot, Mylapore.

'H' Depot : Nungambakkam Cattle Depot, North T' Nagar.

Statement Showing the Cases Treated Class-war in all the Veterinary Dispensaries during 1957.

No.	Veterinary Cas Dispensa-		Cases Treated.		Total.
	ries.	B	0	Е	
1 2 3 4	B D F H	5,703 9,716 12,486 5,563	4,283 3,585 7,799 5,623	13 12 37 55	9,999 13,313 20,322 11,241
361	Total	33,468	21,290	117	54,875

#### ZOOLOGICAL GARDEN

The Madras Zoological Garden is now 103 years old and is able to command more popularity amongst the zoos in the country. The rates of admission continue to be the same. Except for the annual grant of Rs. 10,000 by the State Government as compensation to the Corporation for the loss of income in admitting elementary school children at one anna per head, all other expenses were entirely met by the Corporation of Madras.

The noteworthy features of this year were the addition of Himalayan Pheasants and Game Fowl to the collection and the introduction of strange Secretary Birds and Bustards from Africa. The outstanding event was the successful breeding of tigers without any congenital deformity in the young as reported in the previous year.

Visitors.—The zoo attracted on an average, about four lakhs and a half adults and a lakh and a half of children. This reduction in the number of visitors is mainly due to the Influenza epidemic that raged in the City during the middle of the year.

Distinguished visitors.—Shrimathi Lourdammal Simon, Minister for Local Administration, visited the zoo along with the Collectors and Deputy Collectors and appreciated the arrangements. Shri R. K. Trivedi, I.A.S., Vice Principal, I.A.S. Training School, visited the zoo with I.A.S. trainees and praised the standards maintained in this zoo. Other important visitors are Professor Kaul, Director, National Botanic Gardens, Lucknow, and the Assistant Director, Mr. Percy Lancaster, Mrs. and Mr. L. Ruhe, Proprietor, Gelsenkerchon Zoo, Hannover, Germany, Shri M. R. Kothandaraman, Secretary, Planning Commission and Mr. Dayanchand and Mr. Gentle, India's hockey wizards.

Shri B. V. Ramanjalu continued to be the Superintendent of the Zoo. The Superintendent, being the Technical Secretary of the Zoo-wing of the Indian Board for Wild Life, was deputed to attend the IV General Sessions of the Indian Board for Wild Life and the II Meeting of the Zoo-wing held at New Delhi from 14-2-58 to 16-2-58.

The Madras Zoo celebrated the Wild Life Week jointly with the Forest Department in a grand manner.

On 10-10-57 a public meeting was arranged in the zoo presided by the Hon'ble Minister, Shri M. Bhakthavathsalam. This year the procession consisted of more wild animals. A special cage on wheels with a couple of tigers inside was a great attraction. In connection with the Wild Life Week, the Zoo Superintendent delivered two lectures on wild life preservation in the Stella Mary's College and Queen Mary's College.

The Zoo Superintendent was directed by the Government of Madras in G.O. No. 2356 dated 3rd August 1957 to deliver a series of ten lectures to the final year students of the Madras Veterinary College on 'Diseases and Treatment of Wild Animals'. The Superintendent was able to deliver only the first five lectures before the term was over.

Zoo Live-stock :- At the commencement of the year the zoo live stock consisted of 590 specimens, comprising of 227 mammals, 326 birds and 37 reptiles.

Acquisition through births, purchases, gifts, captures, exchanges, etc., numbered 103 while reduction, due to death, sale, outward exchnge, destruction, gifts etc., was 65. There was thus at the end of the year 628 individual specimens comprising of 239 mammals, 355 birds and 34 reptiles.

eye accually	Additions						per h	anni	Disp	osals	odi o tovi	uls to Del	unun (ake	
Class	100	Number at the beginning of the year	Gifts	Purchase	Births and hatches	Captures & exchange	Total	Sale	Death	Exchange	Destroyed	Gifts	Total	Number at the end of the year
Mammals	·	227	12	4	23		39	4	9	1		13	27	239
Birds '		326	1	55	7	• 1	64		12	d	4	19	35	355
Reptile		37							3	2			-	334
Total		590	13	59	30	1	103	4	24	1	4	32	65	628

The following statement shows the details of addition and disposals under each class :

#### Status of Collection

Class		No. of	Species	No. of specimens		
Class	Class		1957-58	1956-57	1957-58	
Mammals		54	56	227	239	
Birds		54	64	326	355	
Reptiles		9	11	37	34	
Total		117	131	590	628	

#### Additions

By purchases :—As there were lot of restrictions on import of exotic animals, no attempts were made to import bigger animals. However, the most outstanding purchase made in the year was a pair of Secretary birds, and a pair of Bustards which were introduced in this zoo for the first time. Also this happened to be the first time these birds were imported to India. Other less important purchases were 6 Cnukors, 2 Tragopans, 4 Monal Pheasants, 2 Koklas Pheasants, 4 Sarus Cranes, 2 Demoiselle Cranes, 4 larger Egrets, 2 smaller Egrets, 1 Pelican, 8 Pochards, 2 Conures, 2 Malabar Squirrels, and 2 Cutch goats.

By Gifts:—No attractive gifts were received this year except 1 Wanderoo Monkey by Mr. C. P. David, 1 Tigress Cub by Madras Forest Department, 1 Lioness Cub by Shri M. G. Ramachandran, 1 Sambar deer by Rajah of Parlakimedi, 1 Palm Civet by a social worker, 1 wild cat and 6 white rats and 1 Emerald Dove by some interested visitors.

By birth and hatches :— The most outstanding of the births this year was that of Sethu, Malli and Meera, three tiger cubs born to tigress Mary and fathered by tiger Frank. The cubs were born on 31-8-57. Other births among mammals were 2 rhesus monkeys, 2 raccoons, 1 golden agouti, 3 white bucks, 10 axis deer 2 and sambur deer.

#### Disposals

By Gifts:—Last year the Council sanctioned the gift of some animals to the newly formed Delhi Zoological Park, but they were actually taken Delivery of in the month of December 1957. The following animals were sent in a special wagon:

1 Sloth Bear, 2 sambur deer, 10 spotted deer, 1 emu, 4 pea fowls and 12 fan-tail pigeons.

2 rose faced love birds were given as gifts to Trivandram Zoo in connection with the centenary of the Trivandrum Zoo.

By sale:—One lame tiger cub and two zebras were sold to Kamala Circus with the sanction of the Council at a cost of Rs. 300/- for each Zebra and Rs. 300/- for the tiger cub. Another zebra was sold to Trivandrum Zoo at a cost of Rs. 2,000/- The zebras were sold away with the intention of buying new zebras from Africa to improve the blood-stock and to avoid in-breading.

By exchange :-- One elephant was bartered for a giraffe and though the giraffe was received last year the elephant was sent away to Germany only this year.

By deaths :--Fortunately death did not lay its icy hands on any rare and valuable animals, and there were not many deaths also. The following is the list of animals, that died during the period under report : 1 stump tailed monkey, 1 civet cat, 2 jackals, 1 rotel, 2 porcupines, 2 wallabys, 2 jungle fowl, 3 domestic fowls, 1 silver pheasant, 1 golden pheasant, 1 monal pheasant, 1 bar headed goose, 2 vultures and 1 conure. Among the losses, the death of the walabies and the ratel were the most regretted, proper care and attention have been paid to the health and general hygiene of the zoo inmates. Thanks to the Madras Vaterinary College authorities for examining 68 samples of faoces and other material, and for the timely advices and treatment. The great amount of care bestowed by the veterinary Surgeon and the staff during the year, have favourably resulted in keeping the death rate remarkably low as in the previous year. The death rate worked out at 3.8 as against 2.2 last year.

*Revenue*:—The following is the statement of receipts received during the year under report.

1.	Zoo entrance fees		Rs.	1,25,500
2.	Zoo canteen		Rs.	6,505
3.	Zooltank boating fees		Rs.	6,510
4.	Hire of animals		Rs.	1,812
5.	Sale of animals	1.00	Rs.	6,706
6.	Miscellanious (Cameras, joy rides, cars, film-shooting, animal products, etc.)		Rs.	1,320
			Rs.	1,48,353

# INSTITUTIONS UNDER THE HEALTH DEPARTMENT

## Offices of Registrar of Births and Deaths and Vaccination Depots

Office hours :- 7-30 to 10 a.m. and 3-30 to 5-30 p.m. except Sunday.

Serial No.	Divisions serve	ed	Location	
1.	1, 2 and 3		87, Suryanarayana Chetty St., Royapuram.	
2.	4 & 5		546, Thiruvottiyur High Road, Washermer	npet.
3.	6-A		22, Gantz Road, (mornings)	
4.	6-B		55, Madavaram High Road, Perambur (evenings)	.0
5.	7, 8, 9 & 10		244, Mint Street.	· · ·
6.	11, 12, & 13		47, Linghi Chetty Street.	
7.	14 and 15		161, Govindappa Naick Street.	
8.	16		17, Basin Water Works Street.	
9.	17		Rotler Street, Vepery.	
10.	18 and 19		55, Pulianthope High Road.	
11.	20		23, Paper Mills Road, Sembiam.	
12.	21		127, Konnur High Road, Ayanavaram.	
13.	22-A and 25		65, Poonamallee High Road, near Spur Tan	nk.
14.	22-B and 35-B		Shenoy Nagar.	
15.	23 and 24		6, Gangadareaswarar Koil Street.	
16.	26		Zoo Compound.	
17.	27 and 28		23, Kolandai Street, Park Town.	
18.	29 and 30		3/61, Arunachalla Naicken Street, Chintadr	ipeı
19.	31 and 32		34, Poosala Gengu Reddy Street, Egmore.	
20.	33 and 34		15, Noor Veeraswamy Iyer Street, Nungambakkam.	14
21.	35-A		107, Arcot Road, Kodambakkam.	
22.	36 and 47-A		1, Sir Theagaraya Road, T. Nagar.	
23.	37, 38, 39 and 40		369, Pycrofts Road, Pudupakkam.	
24.	41 and 42		25, Pycrofts Road, Triplicane.	
25.	43		25, B.B. Road, Krishnampet.	
26.	44		101, Kutcheri Road, Mylapore.	
27.	45 and 50-A		63, Kutcheri Road, Mylapore.	
28.	46		2/104, Mount Road, Teynampet.	
29.	47-B and 48		1, Karneeswarar Koil Street, Saidapet.	
30.	49		32/5, Velacheri Road, Guindy.	
31.	50-B		13, Greenaways Road, Adayar.	
	h—30			

# Offices of Sanitary Inspectors

Serial No.	Division served		Location	
1.	1	1000	21/22, Kappal Polu Chetty Srreet.	
2.	2		1, Kalmandapam Road.	
3.	3	id voted	Robinson Park.	
4,	1944 M 58	19	546, Thiruvotriyur High Road, Old Washermenpet.	
5.	5		Do.	
6.	6		C.W.C. Bharathi Road, Perambur.	
7.	7		244, Mint Street.	
8.	8		244, Mint Street.	
9.	9		31, St. Xavier Street.	
10.	10		Junction of Monegar Choultry Road Ebramji Sahib Street.	and
11.	11		1/32, Ebramji Sahib Street.	
12.	12		617, Adam Street, Harbour.	
13.	13		47, Linghi Chetty Street.	
14.	14		3/48, Thatha Muthiappan Street.	
15.	15	10 UR0	761, Govindappa Naicken Street.	
16.	16	h.Rond	183, Walltax Road.	
17.	17-A		39, Veda Vinayagar Road.	
18.	17-B		39, Veda Vinayagar Road.	
19.	18		55, Pulianthope High Road.	
20.	19		1-B, Bashyam Reddy Street, 1st Street.	
21.	20-A and	в	257, Paper Mills Road, Sembiam.	
22.	21		127, Konnur High Road, Ayanavaram.	
23.	22-A	6 40.be	65, Poonamallee High Road, Kilpauk.	
24.	22-B	···· ···	Corporation Market, Shenoy Nagar.	
25.	23		6, Gangadareswarar Koil Street.	
26.	24	A	39, Veda Vinayagar Road.	
27.	25		65, Poonamallee High Road.	
28.	26	hinthe	66, Maddox Street, Vepery.	
29.	27		28, Wall Tax Road.	
30.	28		32, Kolandai Street.	
31.	29		3-A, Arunachala Naick Street, Chintadrip	et.
32.	30		72, Kalava Chetty Street, Chintadripet.	
33.	31		83, Harris Road.	
34.	32		34, Poosala Gengu Reddy Street, Egmore.	28. 9
35.	33		16-A, Nungambakkam High Road.	
36.	34	Sinter)	21, Village Road, Nungambakkam.	.95
37.	35-A		107, Arcot Road.	
38.	35-B		Corporation Market, Shenoy Nagar.	

Serial No.	Division ser	ved	Location	Divn.	
39.	36	fion:	3, Sivagnanam Road, T. Nagar.		
40.	37 .beo.M	2010	368/39, Pycrofts Road.		
41.	38		368/369, Pycrofts Road.		
42.	39		102, Thayar Sahib Street.	45	
43.	40		25, Pycrofts Road.		
44.	41	10.0	25, Pycrofts Road.		
45.	42		22, Chengalroya Mudaly Street,	Triplica	ne.
46.	43-A and B		25, Barbers Bridge Road.		
47.	44		101, Kutcheri Road, Mylapore.		
48.	45		101, Kutcheri Road, Mylapore.		
49.	46-A and B		104, Mount Road, Teynampet.		
50.	47-A	2.2.1	3, Sivagnanam Road.		
51.	47-B		22, Brahmin Street, Saidapet.		
52.	48-A		22, Brahmin Street, Saidapet.		
53.	48-B		22, Brahmin Street, Saidapet.		
54.	49		32/5, Velacheri Road, Guindy.		
55.	50-A		Mandavali Street, Mylapore.		
56.	. 50-B		Bridge Road, Adyar.		
			a superior and a superior of the superior of the		

# Dispensaries

Serial No.	Divn. No.	Name of Dispen	sar	y Location
1.	in I and	Royapuram		87, Suryanarayana Chetty St.
2.	2	Palmyrah Kuppam .		Near Corporation Model Lines.
3.	5	Washermenpet		85, Tiruvottiyur High Road.
4.	6	Vyasarpadi		Hope Lodge, Gantz Road.
5.	6	Perambur		55, Madavaram High Road.
6.	8	Mint		244, Mint Street.
7.	12	Harbour		6/7 Adam Street.
8.	14	Mafuskhan Garden .		55, Thatha Muthiappan St.
9.	16	Trevelyan Basin		17, Trevelyan Basin Water Works Street.
10.	17	Baliah Naidu		Rotler Street.
11.	20	Sembiam		42, Paper Mills Road.
12.	21	Ayanavaram .		127, Konnur High Road.
13.	25	Kilpauk		6, Gangadareaswarar Koil Street.
14.	24	Kosapet		8, Chellappa Mudali Street.
15.	29	Chintadripet		2/61, Arunachala Naick Street.
16.	32	Egmore		34, Poosala Gengu Reddy St.
17.	34	Nungambakkam		15, Noore Veeraswamy Iyer St.
18.	35	Kodambakkam .		107, Arcot Road.

Serial No.	Divn. No.	Name of the Di	spe	nsary Location
19.	37	Puduppakkam		367, Pycrofts Road.
`20.	41	Triplicane		25, Pycrofts Road.
21.	43	Krishnampet		25, Barbers Bridge Road.
22.	45	Mylapore		101, Kutcheri Road.
23.	47	T. Nagar		3, Sivagnanam Road.
24.	46	Teynampet		104, Mount Road.
25.	50	Adayar		Lattice Bridge Road.
26.	33	Ayurvedic		Model School Street, Thousand Lights.
27.	13	Mannady Unani		47, Linghi Chetty Street.
28.	18	Pulianthope "		55, Pulianthope High Road.
29.	31	Pudupet "		1, Venkatachala Achari Street.
30.	39	Thiruvatteeswaranpe Unani	et	102, Thayar Sahib Street.
31.	3	Royapuram Siddha		109, Adam Sahib Street.
32.	17	Choolai "		16, Alathoor Subramania Achari Street.
33.	19	Otteri "		1-B, Bashyam Reddy 1st Street.
34.	40	Chepauk Dispensary		Khana Bagh Street
35.	11	Muthialpet		Geils Street, G.T.
36.	9	Seven Wells		1/50, St. Xavier Street.
37.	42	Triplicane		Gazette Begum Street.
38.	48	Saidapet		37, Sadayappa Chetty Street.
39.	4	Sanjeevirayanpet		22, Kappal Polu Chetty Street,
40.	22	Aminjikarai		37, Poonamallee High Road.
41.	36	T. Nagar		16, Ragaviah Road.
42.	7	Basin Bridge		Basin Bridge Road.
43.	49	Guindy		Maduvankari, Guindy
		Mentile menter		

Clinics :-

Venerel Clinic	82/83, Strahans Road, Perambur.	
Leprosy Clinics	<ul> <li> (1) Ice House Road (Beasant Road) Triplicar</li> <li>(2) Hope Lodge, Vysarpady.</li> </ul>	ne.
Tuberculosis Clinics	Pulianthope High Road	
	Government General Hospital	
The Letter Street	Government Stanley Hospital	
	Government Royapettah Hospital	

Govt. Kasturba Gandhi Hospital

Laboratories :--

Public Health Clinical Laboratory Ripon Buildings (Tel. No. ) Public Analyst's Laboratory, Ripon Buildings (Tel. No. ) Water Analyst's Laboratory, Kilpauk Water Works (Tel. No. 2202) Malaria Laboratory, 17, Trevelyan Basin Water Works Street.

Hospitals :--

Infectious Diseases Hospital, Tiruvottiyur High Road, Tondiarpet, (Tel. No. 5317 and 51293) Sri Tiruvoteeswar Tuberculosis Hospital, 391, Konnur High Road (Tel. No. 4887) (Since handed over to the Government of Madras)

Other Institutions:-

Ashok Vihar, Health & Recreation Centre, People's Park (Tel. No. 4754) Zoological Gardens, Peoples Park (Tel. No. 55314) Lethal Chamber, Basin Road. Hearse—Corporation Lorry Station (Tel. No. 3457) Special Home for the diseased and infirm, Krishnampet (Tel. No. 86377)

Mid-day Meals Centres :---

- (1) Basin Bridge Road, Kondithope, North Range.
- (2) Iyah Mudaly Street, Chintadripet, Central Range (Tel. No. 85763)
- (3) Conran Smith Road, Gopalapuram—South Range.

Veterinary Dispensaries:-

Basin Bridge Road, Kondithope. Barbers Bridge Road, Krishnampet. Prasanna Vinayagar Koil Street, Mylapore. Harris Road, Pudupet.

Corporation Cattle Yards :--

Basin Bridge Road, Kondithope. Singanna Chetty Street, Chintadripet. Vinaitheertha Vinayaga Mudali Street, Kosapet. Venkatarangam Pillai Street, Saidapet.

Slaughter Houses :--

e Road, Saidapet

Autur, Gaindy,

Sheep and Cattle-

Gantz Road—Perambur Barracks. Alandur Road—Saidapet.

Pigs-

Junction of Basin Road and Pulianthope High Road.

h-31

# Burial and Burning Grounds

Serial No.	Divi- sion No.	Name of Burial Ground Location
1	1	Kasimode Burial and Burning Suryanarayana Chetty Ground.
2 (2)	6	Melpattadai Ponnappa Mudali Melpattadai Ponnappa Street Burial and Burning Mudali St., Perambur. Ground.
3	6	Manali Road Burial and Burning Manali Road, Vyasar- Ground. padi.
4	7	Washermenpet Burial and Burn- Kathiwakkam High ing Ground. Road, Washermenpet.
5 .tn	17	Choolai Cremation Ground Basin Road, Pulianthope.
6	20	Thangal Burial and Burning Thangal, Sembiam. Ground.
7	20	Peravallur Burial and Burning Peravallur, Sembiam. Ground.
8	20	Agaram Burial and Burning Loco Works Road, Sem- Ground. biam.
9	21	Vailangadu Burial and burning Ayanavaram. Ground.
10	22	Halls Road Burial and Burning Halls Road, Kilpauk. Ground.
11	23	Otteri Burial and Burning Ground Brick Kiln Road, Otteri.
12	.34	Sterling Road Burial and Burning Sterling Road, Chetpet. Ground.
13	35-A	Puliyur Burial and Burning Puliyur, Kodambakkam Ground.
14	35-A	Saligramam Burial and Burning Near Saligramam, Ground. Kodambakkam.
15	35-A	Kodambakkam Burial and Burn-Kodambakkam, near ing Ground. A.V.M. Studios.
16	35-A	Nallankuppam Burial and Burning Nallankuppam, West Ground. Mambalam.
17	35 <b>-</b> B	Aminjikarai Burial and Burning Lime Kiln Street, Ground. Aminjikarai.
18	35-B	Arumbakkam Burial and Burning Aminjikarai. Ground.
19	35-B	Naduvankarai Burial and Burning do. Ground.
20	35 <b>-B</b>	Mullam Burial and Burning do. Ground.
21	35-B	Periagudal Burial and Burning do. Ground.
22	43	Krishnampet Burial and Burning Gajapathy Lala Street Ground. Dr. Beasant Road.
23	44	Mylapore Burial and Burning South of Edward Elliots Ground. Road.
24	47-A	alles) has ready
25	48-B	
26	49	Kottur Burial and Burning Kottur, Guindy. Ground.

Serial No.	Divi- sion No.	Name of Burial Ground	Location
27	49	Zamin Adayar Burial and Burning Ground.	Adayar.
28	49	Kallikundram Burial and Burning Ground.	do.
29	49	Velacheri Burial and Burning Ground.	do.
30	50-B	Urur Burial and Burning Ground.	Urur Village, Adayar.
31	T	Muslim Burial Ground	Suriyanarayana Chetty Street, Royapuram.
32	ad 1 pac	do. Bhora Burial Ground	do.
33	Man	do. Old Burial Ground	do.
34	SI1 LT	do. Khoja Burial Ground	do.
35	22	Kilpauk Burial Ground	Shenoy Nagar.
36	1 <sup>malai</sup>	Christian Cemetry	Suriyanarayana Chetty Street, Royapuram.
37	22	Kilpauk Cemetry	Shenoy Nagar.
38	50	Ellapatha Mada Koil Cemetry	St. Mary's Road, Mylapore.
39	1 .10	Chinese Burial Ground	Suriyanarayana Chetty Street, Royapuram.
40	100	Jewish Burial Ground	do. do.
41	22	Buddist Burial Ground	Shenoy Nagar.

# CHILD-WELFARE CENTRES AND CRECHES

Serial No.	Name of Centre	Divi- sion No.	Location
1	Tondiarpet	1	385, Thiruvotriyur High Road, Tondiarpet.
2	Palmyrah Kuppam	2	Near Corporation Model Lines, Palmyrah Kuppam.
103)er	Royapuram	3	26, Suriyanarayana Chetty Street, Royapuram.
.1 <b>.4</b> .61	Sanjivirayanpet	4	21/22, Kappal Polu Chetty Street, Washermenpet.
5	Washermenpet	5	86, Thiruvotiyur High Road, Washermenpet.
6	Vyasarpadi	6	Bharathi Road, Perambur.
7	Peddunaickenpet.	8	18, Zinda Sahib Street, Peddunaickenpet.
8	George Town	9	44, Amman Koil Street, George Town.
9	Kothwal Bazaar.	10	1/27, Appu Maistry Street, George Town.
10	Muthialpet	11	175, Thambu Chetty Street, George Town
11	Treveleyan Basin.	16	52, Trevelyan Basin Street, Trevelyan Basin.
12	Maternity Home.	17	15, Vijayavigneswarar Koil Street, Choolai.
13	Pulianthope	18	1/33, Gantz Road, Pulianthope.
14	North Perambur.	19	54, Perambur High Road, Perambur.

Name of C	antra	Divi- sion	Location
Name of C	entre	No.	Location
Sembiam	nbA	20	45, Paper Mills Road, Sembiam.
Ayanavaran	ı	21	United India Colony, Ayanavaram.
Kilpauk		22	19, Halls Road, Kilpauk.
Nammalwar	pet	23	14, Subbaraya Chetty Street, Nammalwarpet.
Kosapet		24	8, Chellappa Mudali Street, Kosapet.
Purasawakk	am	25	109, Purasawakkam High Road, Purasawakkam.
Periamet		26	4/8, Naval Hospital Road, Periamet.
AshokViha	r	26	Ashok Vihr (behind Moore Market)
Edapalaya		27	Mallaya Market, Wall Tax Road.
Park Town		28	2/3, Periera Street, Park Town.
Napier Pa	rk	29	1/61, Arunachala Naicken Street, Chintadripet.
Egmore		31	37, Langs Garden, Pudupet.
Chetpet	12	33	27, Jagannathapuram Second Street, Chetpet.
Thousand	Lights.	33	46, Aziz Mulk III Street, Thousand Lights.
Nungamba	akkam.	34	15, Noore Veerasamy lyer Street, Nungambakkam.
Kodambal	kam]	35	68, Arcot Road, Kodambakkam.
T. Nagar (	North).	16	Ragaviah Road, T. Nagar.
Royapetta	.h	37	84, Lloyds Road, Royapettah.
Triplicane		38	8, Nyniappa Maistri Street, Triplicane.
Zam Baza	ar 1	42	24/25, Surappa Mudali Street, Zam Bazaar.
Mirsahibp	et	43	65, Dr. Besant Road, Triplicane.
Mylapore		44	48, Bazaar Road, Mylapore.
Teynampe	et	46	104, Mount Road, (Corporation Dispensary Building).
Saidapet	- and thus	47	2, Jeenis Road, Saidapet,
T. Nagar	D 101.1	47	3, Sivagnanam Road, (Corporation Dispensary Building)
Saidapet	···· ··· ··· ···	48-A	24, Dhanapal Chetty Street, Saidapet.
Guindy		49	6, Perumal Koil Street, Kottur.
	1	50	24 D. I. D. I.I.

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Mandavalli ...

Serial No.

Adayar	 50	44, Vasantha Press Road, Adayar.
es:-		
Royapuram	 3	Royapuram Child Welfare Centre.
Broadway	 9	Bundar Rama Naicken Garden, Broadway.
Chetpet	 33	Chetpet Child Welfare Centre.

Maternity Home. 17 15, Vioyavigneswarar Koil Street, Choobii.

North Perambur. 19 54. Perambur High Read. Perambur.

34, Brodies Road, Adayar.

STATISTICS SUPPLEMENT No. 1.

Meteorological Data of Madras City (Nungambakkam) For 1957 Tatituda . 120 A'NI

withda . 80º 15'E

100	in the second			NAME OF TAXABLE AND DO TO TAX
10	nches	No. of Rainy Days 0.10° and over	13	0-00-4000401
10.00	Rainfall in inches	Heaviest rainfall in 24 hours in inches	12	$\begin{array}{c} 0.00\\ 0.20\\ 0.38\\ 0.38\\ 0.38\\ 0.00\\ 0.38\\ 0.00\\$
D'E	Rainfa	Total fall for the month in inches	11	0.00 0.20 0.20 0.20 0.20 0.20 0.20 0.20
Longitude : 80° 15'E	Wind	Mean of wind in degrees from North at 08·30 Hours I.S.T.	10	NN 28 WN 28 WN 28 WN 28 WN 28 S 551 WN 28 500 WN 24 E WN 24 WN 2
Longi	Humidity	Percen- tage of Humidity at 08:30 Hours I.S.T.	6	82226002228
10 Mil-		Difference between Mean temperature and Dew Point temperature at 08:30 Hours I.S.T. (6-7)	8	44 65 65 65 65 65 65 65 65 65 65 65 65 65
100-100	•F)	Mean Dew 08:30 Hours 1.S.T.	7	2000 2000 2000 2000 2000 2000 2000 200
00	Temperature (°F)	Mean daily tempe- rature <sup>1</sup> / <sub>4</sub> of (3+4)	9	26-1 26-1 26-1 26-1 26-1 26-1 25-3 29-6 25-3 29-6 25-3 25-3 25-3 25-3 25-3 25-3 25-4 25-4 25-1 25-1 25-1 25-1 25-1 25-1 25-1 25-1
102	Temp	Mean daily Range Columns (3-4)	5	88.1 8.4 9.0 9.0 7.1 8.6 9.0 7.1 6.5 6.5 6.5
102 201		Mean Mini- mum. °C	4	2222 2222 2222 2222 2222 2222 2222 2222 2222
St. 14	N. N	Mean Maxi- mum. °C	3	28:5 332:9 32:9
Latitude: 13° 4'N	Pressure	Mean Barometric pressure corrected for temperature and reduced to standard gravity and mean sea level in Millibars 08:30 Hours I.S.T.	2	• 1014-6 1013-7 1011-4 1011-2 1007-7 1006-0 1006-3 1008-3 1014-2 1014-2 1014-2
10 inclusion on a	12 Cheorn	Month	e Alimenthique	January February March April May July August September October November

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Mean

STATISTICS SUPPLEMENT No. 2

Births registered in each Division with rates during 1957

Number of still- births Registered.		64 183 135 135	<b>44</b> 84 14 26 26 26 26 26 26 26 26 26 26 26 26 26	4%128°	43 83 47 47	50
Births per of Population	1'000	944411				MI.M
Deaths per of Popula-	1,000. tion.	20.6 39.0 11.6 11.6	25-2 9-0 17-0 12-5 20-0	20.0 19.0 15.4 21.0	21:2 28:0 22:1 22:1 24:9	27-7 35-6
er of males to every 100 es born.	porn	107-5 107-5 100-9 103-0 98-3	92:2 100:4 114:7 92:6 105:3	111-6 98-7 98-7 120-4 103-1 108-6	103-1 109-1 98-0 109-4 101-8	103-5
3irths ,000 of	Total	60.1 71.1 50.0 69.3	52.7 41.0 39:5 46:5 42:7	38-9 50-0 36-5 36-5	41-8 49-1 52-8 39-0 52-4	62·1 60·5
o of Live Births tered per 1,000 of population	remales	57:4 46:6 82:1 51:1 63:5	56.0 41.3 37.6 54.4 44.8	36-2 54-6 58-5 40-3 41-1	42:7 44:0 55:7 37:4 50:1	61-3
Ratio of 1 registered popul	Males Females	62-9 53-0 62-7 49-0 76-4	40.7 40.7 40.3 40.9 40.9	41.6 42.2 44:6 30.1 33.0	41.0 49.8 50.1 54.8 54.8	63-0 54-7
Births	Total	1,886 1,036 3,070 2,566 2,536	1,307 932 1,211 1,211 1,256 1,008	1,018 761 639 520 557	1,221 2,600 2,333 1,149 1,586	1,791
Number of Live registered	emales	909 500 1,528 1,264	680 465 564 652 491	481 383 290 267 267	601 1,243 1,180 549 786	880
Number	Males Females	977 536 1,542 1,302 1,257	627 467 647 604 517	537 378 349 264 290	620 1,357 1,153 600 800	911 910
rding 1951	Total	31,369 20,851 43,196 51,378 36,606	24,788 22,744 31,012 26,984 23,590	26,191 15,971 12,793 12,793 15,117 15,271	29,196 52,977 44,194 29,505 30,285	28,818 22,916
Population according to the census of 1951	Gemales	15,826 10,734 18,602 24,718 20,150	12,147 11,272 15,001 11,990 10,954	13,297 7,021 4,961 6,346 6,489	14,072 25,751 21,194 14,662 15,677	14,354 10,287
Popula to the c	Males Females	$\begin{array}{c} 15,543\\ 10,117\\ 24,594\\ 26,660\\ 16,456\end{array}$	12,641 11,472 16,011 14,994 12,636	12,894 8,950 7,832 8,771 8,771	15,124 27,226 23,000 14,843 14,608	14,464 12,629
ė	1 ALLO	11111				::
Name of Division.		New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Koil	Muthialpet Harbour Kachaleeswarar Koil Kothawal Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barracks Sembium	Ayanavaram Kilpauk
.oN noisi	via	-4040	9 10 10 10	22642	20 11 11 11 11 11 11 11 11 11 11 11 11 11	32

		5				
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31:6	:::::			ILFIE	:	0%.T
19-1 23-0 22-0 20-6	28:0 94:8 30:2 30:2	22:0 22:1 22:1 33:8	19-0 22-3 22-4-8 21-3 21-3	20.4 26.5 17.6 13.7	:	18-43
112:3 107:5 108:0 108:0 107:0 107:0 114:5	93-2 102-4 113-1 99-0 110-2	105-0 105-0 107-3 96-0 106-1	102-7 106-6 104-8 112-3 95-6	109-3 104-8 99-9 96-8 106-8	:	104-47
39-0 31-0 39-0 39-0 40-2	46-0 50-1 50-4 58-9 58-9	45:2 43:0 50:4 51:4	40-0 54-0 39-3 39-3	46-5 50-5 35-7 60-8	:	48-87
39-0 34-5 34-2 39-0	50.6 119-1 48:3 48:3 58-1 58-1	45.0 42.6 52.5 52.8	42.6 47.4 56.0 39.6 41.0	47-2 52-1 42:5 40:5 60:9	:	49-84
39-0 36-8 36-8 37-0 41-6	41-8 121-1 52:5 59:6 59:6	45.4 43.1 45.0 47.2 50.1	36.8 34.7 52.4 52.4 37.6	45-8 49-1 38-4 31-9 60-6	:	47-97
1,229 720 503 763 1,066	1,283 2,006 1,581 1,218 2,186	965 1,002 1,256 1,532 1,247	1,056 1,151 2,387 1,794 1,011	1,555 1,788 1,389 622 1,706	:	69,197
579 347 242 369 497	664 991 742 612 1,040	471 489 606 782 605	521 557 1,166 845 517	743 873 695 316 825	:	33,842
650 373 394 569 569	619 1,015 839 606 1,146	494 513 650 642 642	535 594 1,221 949 494	812 915 694 881 881		35,355
31,563 18,482 16,235 19,558 26,497	27,940 16,704 31,342 27,407 37,134	21,373 23,344 28,672 30,363 24,267	26,277 25,044 44,180 38,734 25,745	33,477 35,392 34,466 17,416 17,416 28,098	2,280	4,16,056
14,835 8,358 7,075 8,876 12,809	13,126 8,319 15,345 12,668 17,908	$\begin{array}{c} 10,487\\ 11,443\\ 14,224\\ 14,224\\ 14,485\\ 11,449\end{array}$	$\begin{array}{c} 12,240\\ 11,749\\ 20,873\\ 20,873\\ 21,351\\ 12,608\end{array}$	$15,736 \\ 16,762 \\ 16,373 \\ 7,812 \\ 7,812 \\ 13,548 \\ 13,548 \\$	528	7,37,013 6,79,043 14,16,056
16,728 10,124 9,160 10,682 13,688	14,814 8,385 15,997 14,739 19,226	$\begin{array}{c} 10,886\\11,901\\14,448\\15,878\\12,818\\12,818\end{array}$	14,537 13,295 23,307 17,383 13,137	17,741 18,630 18,093 9,604 14,550	1,752	7,37,013
		(q1 : : : :	:::::	:(g : : :	:	:
Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	Theagaraya Nagar(Nor Royapettah Pudupakkam Thiruvatteswaranpet Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do (South)	Teynampet Theagaraya Nagar(Sou Saidapet Guindy Adayar	Fort St. George	Total
	The second division in the second division		THE OWNER ADDRESS OF TAXABLE PARTY.	the second se	Statement Street, Stre	-
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	t $16,728$ $14,835$ $31,563$ $650$ $579$ $1,229$ $390$ $390$ $390$ $1123$ $191$ $\dots$ $10,124$ $8,358$ $18,482$ $373$ $347$ $720$ $3678$ $4125$ $390$ $1075$ $230$ $3168$ $1075$ $230$ $1075$ $230$ $1075$ $230$ $1075$ $230$ $1075$ $230$ $1076$ $10,124$ $8,358$ $18,482$ $394$ $191$ $1,200$ $221$ $1,200$ $1076$ $10,124$ $13,168$ $13,168$ $19,558$ $394$ $497$ $1,066$ $416$ $390$ $402$ $11475$ $206$ $\dots$ $3176$ $3168$ $12,319$ $31,688$ $12,809$ $26,497$ $569$ $497$ $1,066$ $416$ $390$ $402$ $11475$ $206$ $\dots$ $3176$ $3168$ $12,316$ $31,342$ $31,342$ $31,90$ $10770$ $220$ $\dots$ $3176$ $3168$ $12,388$ $12,809$ $16,19$ $569$ $497$ $1,066$ $416$ $390$ $402$ $11475$ $206$ $\dots$ $3176$ $11475$ $206$ $\dots$ $11475$ $2076$ $\dots$ $11475$ $2076$ $\dots$ $11475$ $2076$ $\dots$ $11475$ $2076$ $\dots$ $116$ $15,997$ $15,345$ $31,342$ $8399$ $1,206$ $664$ $1,288$ $5275$ $4873$ $5076$ $460$ $9322$ $289$ $\dots$ $12$ $11475$ $2076$ $\dots$ $116,128$ $16,129$ $1,218$ $1191$ $1201$ $1024$ $948$ $\dots$ $112$ $1131$ $293$ $116$ $112,128$ $11,126$ $11,218$ $11191$ $1201$ $10224$ $948$ $\dots$ $1112$ $112,126$ $11,218$ $11,126$ $11,218$ $11191$ $1201$ $10224$ $948$ $\dots$ $1112$ $112,128$ $11,126$ $11,218$ $111191$ $1201$ $10224$ $948$ $\dots$ $1112$ $293$ $\dots$ $112,222$ $114,23$ $21,407$ $10,128$ $21,407$ $21,128$ $516$ $516$ $581$ $581$ $581$ $1122$ $222$ $\dots$ $112$ $2222$ $\dots$ $112,218$ $21,129$ $2222$ $\dots$ $112,22$ $2222$ $\dots$ $112,222$ $2222$ $\dots$ $112,222$ $2222$ $\dots$ $112,222$ $2222$ $\dots$ $112,222$ $2222$ $\dots$ $12,222$	tt16,72814,83531,5656505791,229390390390112:3191wm9,1607,07516,23534772036%41'5390107'523031'6Park10,1248,35818,48237334772036%41'5390107'523031'6Park10,6828,87619,55839436976337'041'639'0107'622'0Park13,68812,80926,4975694971,06641'639'0107'622'0waranpet14,81413,12627/9406196641,28341'850'646'093'228'0waranpet15,99715,34531,3428397421,28852'548'350'4113'129'31bakkam19,22617,90837,1341,1461,0402,18652'548'350'4113'129'31avkram19,22617,90837,13411,1461,0402,18653'553'448'350'4113'129'31avkram19,22617,90837,13411,1461,0402,18653'559'447'129'31avkram19,22617,90837,13<	tt16,72814,83531,5636505791,2293903903901012319111War01,1248,33818,4823733477203664153901075230316Pipet10,1248,33818,4823733477203664153901075230316War10,1248,33818,4823733477203664163901075230316waranpet113,68812,80026,4975694971,06641639040211475206206waranpet13,68813,12627,9406196641,28841850640211475206206sukkam13,59715,34531,34283910,6612,388418506460932280293abkkam11,47312,06827,9406196641,288596460932280272293abkkam11,47312,06827,4076192,18852548350449320320322220627329	tt[6,72][4,833][1,538][6,432][6,73][1,23]	the second state of the second state stat

STATISTICS SUPPLEMENT No. 3.

Births registered in each division during each month in 1957.

			4			
and the second	Total number of Live Births Registered	1,886 1,036 3,070 2,556	1,307 932 1,211 1,256 1,008	1,018 761 520 557	1,221 2,600 2,333 1,149 1,586	1,791
	December	191 99 254 285	135 98 141 118 118 110	100 85 87 85 87 87 80	114 299 230 124 192	214 137
	November	185 781 221 221 220 251	115 73 104 83 82 82	\$25288	106 215 199 96 102	155 116
	October	- 146 89 297 205 188	119 147 120 79	865528 865528	113 241 228 107 144	152 118
	September	147 94 282 285 198	111 31 71 89 89	569 14 15 15 15 15 15 15 15 15 15 15 15 15 15	109 206 142 88 88 117	158 134
	isuguA	157 93 232 187 211	94 79 88 88	878 87 87 80 80 80 80 80 80 80 80 80 80 80 80 80	97 227 181 76 127	161 118
	ylul	129 89 222 197	100 81 115 98 98	8848 8848 8848 8848 8848 8848 8848 884	102 196 116 116	153
	June	181 91 211 231	135 69 117 89	964 1351 41	99 257 205 101 152	148 142
	Мау	182 98 226 224 220	109 127 102 101	103 84 85 84 84 84 84	121 231 231 98 98 153	164
	lingA	143 91 222 214	90 120 1895 90 120 1895	96 161 38 38 54	109 212 224 105 149	113
	Матсћ	178 88 220 239	130 97 53 53	82 53 54 54	100 200 63 133	148
	February	125 62 191 140	86 86 86 86 86	238 50	71 153 140 76 79	115 97
	January	122 61 176 156	80 78 63 63	33149	80 1163 1172 99 1111	110
10. BUTON . 10 1104	Division Name of Division	1 New Washermenpet 2 Royapuram 3 Singara Garden 4 Sanjeevirayanpe t 5 Korukupet	<ul> <li>6 Vyasarpady</li> <li>7 Basin Bridge</li> <li>8 Peddunaickenpet</li> <li>9 Seven Wells</li> <li>10 Ammen Koil</li> </ul>	<ul> <li>Muthialpet</li> <li>Harbour</li> <li>Kachaleeswarar Koil</li> <li>Kothawal Bazaar</li> <li>Sowcarpet</li> </ul>	<ul> <li>16 Trevelyan Basin</li> <li>17 Choolai</li> <li>18 Pulianthope</li> <li>19 Perambur Barracks</li> <li>20 Sembium</li> </ul>	21 Aynavaram 22 Kilpauk
]	Division No	क क्षक्षक	තිබා ගැනි ි	संसन्दर्भ नहि	20918 20918 20918	522

		5			
1,229 720 503 1,066	12,83 2,006 1,581 1,218 2,186	965 1,002 1,256 1,532 1,247	1,056 1,151 2,387 1,794 1,011	1,555 1,788 1,389 622 1,706	69,197
146 82 48 74 105	162 275 176 151 257	120 117 124 152 116	123 120 120 180 110	158 176 153 55 164	7,392
107 54 85 85	108 209 114 90 171	81 77 124 129 142	118 110 260 181 95	134 187 132 132 49 161	6,047 7
103 62 58 58 108	124 213 160 119 169	88 140 88 88 88	85 101 168 168 84	139 154 88 57 181	6,182
124 54 59 59 107	95 162 99 168	91 102 170 116	65 76 190 88	150 109 94 43 150	5,701
82 83 87 87	91 124 119 98 194	84 102 102 95	94 103 132 65	114 137 64 47 136	5,359
116 74 86 86 104	141 186 1125 1111 1113	71 87 114 116 1116	131 124 173 96	156 884 116 61 166	6,067
97 35 81 81	117 150 140 98 214	72 83 106 148 107	80 65 136 136 85	159 178 145 63 117	6,017
107 53 58 58 58 102	114 198 155 110 225	87 116 125 108	99 114 178 178 178	136 159 134 54 160	6,334
95 74 71 76 76	106 160 110 173	76 79 87 94	92 113 157 72	133 141 148 148 148 122	5,870
96 50 74 26 74 26 74 26 74 20 26	103 118 139 95 167	88 93 93 133 110	53 74 144 83 83	116 147 124 55 152	5,667
532869 5338	78 98 114 98 122	63 53 86 86 86 86	67 80 157 104 69	81 114 104 88 88	4,195
87 46 61 65	71 97 105 153	43 74 74 74 74 74	49 144 88 67	79 87 38 109	4,366
		:::::	:::::	Mailes Micute	Total
		orth)		uth)	
Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleeswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	Theagaraya Nagár (No Royapettah Puďupakkam Tiruvatteeswaranpet Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do (South)	aya	
30 00 11 1228	31 H 332 H 332 H 332 H 332 H	337 1337 140	444	50 449	-
	Periamet          87         69         96         95         107         97         116         82         124         103         107         146           Edapalayam          46         40         63         71         53         55         74         53         54         62         67         82           Park Town          41         28         42         44         46         35         54         62         67         82           Napier Park          61         53         50         76         58         65         86         61         59         54         48         48           Napier Park          65         58         65         86         61         59         54         48         48           Chintadripet          65         57         74         91         102         81         104         87         105         16		Periamet		Periamet         Periamet

A.oM TVI

STATISTICS SUPPLEMENT No. 4

Births registered among Principal Communities in each Division during 1957.

			0			
. Total births	registered (excluding still births)	1,886 1,036 3,070 2,566 2,536	1,307 932 1,211 1,256 1,005	1,018 761 639 520 557	1,221 2,600 2,3333 1,149 1,586	
nities	Females	909 500 1,528 1,264 1,279	680 465 564 652 491	481 383 290 256 267	1,243 1,180 1,180 786	880
All communities	Males	977 536 1,542 1,302 1,257	627 467 647 604 517	537 378 349 264 290	620 1,357 1,153 600 800	911 690
Others	Females	::-::	11111		∞ : : : :	::
Otl	Rales	: : :	:::::		= : : : :	
ims	Females	288 38 98 226	 64 56	146 146 55 26	233255 89 89	29
Muslims	səlsM	25 62 58 58 220	53 57 57 70	34 53 53 53 53 53	3 224 58 58	36
lus	Females	794 354 1,348 1,170 1,043	642 559 463 387	433 227 241 190 265	1,175 903 419 674	799 629
Hindus	Males	869 369 1,335 1,196 1,015	589 383 510 397	482 2288 286 286	1,309 879 457 685	808 620
an	Females	86 80 80 80 10	420°3332		w44%8	37
Indian Christians	Males	80 76 21 21	27 29 31 46	21 13 17	39 50 38 38	61 48
Anglo- Indians	Femalés	1214 :	ه ۱۵ ما	::-::	11: 2:	• :
Ang	səleM	~~0~~~-	40 :04	:-::	:5 :10 19	9 ::
sus	Females				: : : : : :	5:
Aliens	Males		:::::		:	:4
	2 1				:::::	::
	Name of Division	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Koil	Muthialpet Harbour Kachalceswarar Koil Kothaval Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barracks Sembium	Aynavaram Kilpauk
No.	I noisivia	-0040	109876	12121	11 11 11 11 11 11 11 11 11 11 11 11 11	21

	69,197	1,555 1,788 1,389 622 1,706	1,056 1,151 2,387 1,794 1,011	965 1,002 1,256 1,532 1,247	1,283 2,006 1,581 1,218 2,186	1,229 720 503 1,066	1,201 1,947 663
1	33,842	743 873 873 695 316 825	521 557 1,166 845 517	471 489 606 782 605 605	664 991 742 612 1,040	579 347 242 369 497	585 925 293
69,197	35,355	812 915 694 881 881	535 594 1,221 949 494	494 513 650 750 642	1,015 839 606 1,146	650 373 261 394 569	1,022
30	12	-::::	:::-:			+++++	411
3	18	::	::::0	:::::		:::=:	:::
47	2,666	214 215 214 217	1 88 263 42 21	12 32 143 73 73	30,45228	56 19 20 19	8 26 10
5,547	2,881	270	99 394 13	15 39 167 244 86	72 294 44 44	67  26 19	2330
146	9,418	706 841 685 268 743	516 467 874 776 459	449 418 448 501 522	501 599 574 967	467 345 322 322 453	518 826 257
60,046	1,619 30,628 29,418	786 873 678 246 805	533 495 900 875 436	466 434 468 493 547 547	472 906 662 555 1,075	519 373 344 518	536 922 311
3	1000	20 24 59 59	428255	10 15 10 10	77 59 31 42	42 14 255 20	57 65 22
3,313	1,694	283 0 13 283 0 13	: :224	30 15 15 15 15 15 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	70 74 114 35 26	47 66 30	65 74 31
	107	:::-:		:- :- :	40 :	4 : : :	C1 00 50
221	114	:-:::	::::-	:- : : :	€20-01-	16	ww4
40	20	9 : : : 6	:::-:		1464 1		:::
4	20	::::-	: : : : 9 :	11111	: : :	- : : : :	
al	:	Feynampet Theagarayanagar (South) Saidapet Juindy	tr et (North) (South)	Fheagarayanagar (North) Royapettah Pudupakkam Firuvatteeswaranpet Chepauk	aranpet Lights kkam	:::::	am
Grand Total	Total	1.1.0.04	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do. (South)	Theagarayanagar (N Royapettah Pudupakkam Tiruvatteeswaranpet Chepauk	Komaleeswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	Periamet Edapalayam Park Town Napier Park Chintadripet	Purasawalkam Kosapet Vepery
		50 44 50 50	142444	36 33 39 30 40	33 33 33	30328278	2223

STATISTICS STATEMENT No. 5

Statement showing Area, Density of Population, Deaths, Infant Deaths with rates registered in each Division during 1957.

					and the second second	
ant red	Grand Total	160-0 157-3 125-7 125-7 166-0 228-0	127-7 185-7 152-8 137-0 132-0	121-0 166-9 134-6 140-0 122-1	108-9 118-9 167-2 162-0 162-0	215 120-0 158 114-0
of Inf giste	IntoT	301 163 386 426 579	167 173 185 185 172 133	123 127 86 68 68	133 309 390 390 231 231	215 158
Number of Infant Deaths Registered	Females	140 70 215 215	877 872 872 872 872 872 872 872 872 872	333866	61 137 208 89 89 124	73
Nun Deat	Males	161 93 207 201 307	77 96 96 82	63 860 38	172 182 197 107	125
to every	Numb.r of Males 1 160 Femal	96·2 91·6 96·3 94·5 96·2	91.6 108-0 102-1 117-0 119.6	93-4 108-6 103-2 146-2 120-6	105-8 100-0 94-6 93-0	126-0
eaths ) of on	IstoT	40-0 30-0 31-7 57-7	27.5 32.0 34.0 34.0 22.8	19-0 25-0 19-0 15-5	20-7 21-0 30-7 27-5 27-5	34.5 25.0
Ratio of Deaths per 1000 of population	Females	40-0 30-0 33-9 53-4	29-3 31-1 22-5 35-3 22-4	19-3 31-5 31-6 31-6 18-4 16-5	20.8 21.6 32.9 27.5 27.5	30.7
Ratic	Males	39-1 29-1 27-6 30:0 62-9	25.8 32.1 21.5 33.0 23.2	19-0 26-8 20-7 19-5 14-7	20.5 20.5 28.7 28.7 29.0 27.5	38.2 23.8
of Deaths excluding Births	Total	$1,240\\615\\1,386\\1,628\\1,628\\2,111$	682 728 683 918 538	497 461 319 288 236	603 1,114 1,358 809 832	993 571
nber of De tered exclu Still Births	Females	632 321 706 837 1,076	. 356 350 338 423 245	257 221 157 117 107	293 557 698 380 431	440 270
Number registered Still E	Rales	608 294 680 791 1,035	326 378 345 495 293	240 240 162 171 129	310 557 660 429 401	553 301
Population according to census of 1951	Total	31,369 20,851 43,196 51,378 36,606	24,788 22,744 31,012 26,984 23,590	26,191 15,971 12,793 15,117 15,271	29,196 52,977 44,194 29,505 30,285	28,818 22,916
tion ac	Females	$\begin{array}{c} 15,826\\ 10,734\\ 18,602\\ 24,718\\ 20,150\\ \end{array}$	12,147 11,272 15,001 11,990 10,954	13,297 7,021 4,961 6,346 6,489	14,072 25,751 21,194 14,662 15,667	14,354
Popula to ce	səlsM	15,543 10,117 24,594 26,660 16,456	$\begin{array}{c} 12,641\\ 11,472\\ 16,011\\ 14,994\\ 12,636\end{array}$	12,984 8,950 7,832 8,771 8,771 8,771	15,124 27,226 23,000 14,843 14,608	14,464
er Acre	Density p	18-7 73-3 152-4 152-4 152-9 51-5	20-2 101-3 347-8 282-8 350-7	284-8 46-7 38-1 38-9 188-9 230-0	297.6 230.0 51.0 23.5	17-7
00	Area In Acres	1674-1120 284-4160 283-5200 335-9360 711-2320	1227-5200 201-9200 89-1520 95-4240 67-2640	91-9680 284-8 342-1440 46-7 335-6160 38-1 80-0000 188-9 66-4960 230-0	98-1120 297-6 230-4000 230-0 565-7600 78-1 579-2000 51-0 1288-1280 23-5	1670-4000
Area	in Square Miles	2-6158 0-4444 0-4430 0-5249 1-1113	1.9180 0.3155 0.1393 0.1491 0.1051	$\begin{array}{c} 0.1437\\ 0.5346\\ 0.5244\\ 0.1250\\ 0.1039\end{array}$	$\begin{array}{c} 0.1533\\ 0.3600\\ 0.8840\\ 0.9050\\ 2.0127\end{array}$	2.6100 2.8542
Cushig Lotal	Name of Division.	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Koil	Muthialpet Harbour Kachaleeswarar Koil Kothawal Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barracks Sembium	Aynavaram Kilpauk
.ºN	Division	-0040	10 10 10	122242	16 17 19 19 20	21 22

					•		
137-4 168-0 87-5	116-4 1111-1 184-9 101-0 122-0	89-2 89-2 104-0 130-0 135-4	157-5 108-8 115.5 130-0 99-4	127.0 139-0 161-3 140-0 119-7	158-2 154-9 164-9 167-2 140-0	1	139-79
327 58 58	143 80 93 93 130	143 179 164 164 158 296	152 109 124 124	134 160 385 385 385 121	246 277 229 229 239	1	9,671
152	31 336 337 336	70 93 65 135	77 59 73	54 79 173 103	115 131 112 57 124	1	4,548
81 175 28	71 71 10 10 10	73 86 99 92 161	75 50 89 51 51	80 81 212 148 62	131 146 117 47 115	1	5,123
95.4 89-5 101-4	97-8 104-9 223-6 101-2 107-6	88-0 88-0 107-2 94-0	100-0 100-9 121-3 96-3	108-0 98-0 108-4 114-7 95-0	107-0 106-3 100-3 96-9	I I	104-4 5
19-2 27-3 16-5	19-9 116-0 62:5 117-0 117-0	18-2 25-0 221-2 221-2 28-7	23-0 19.0 21-7 23-4 17-6	20-4 23-6 31-6 21-6 18-0	26-1 24-0 222-7 220-3 27-0	1	0-92
21-6 29-5 15-6	21-4 17-2 44-4 18-6 19-6	18:4 27:0 20:9 24:1 30:7	23.6 19.2 19.7 22.6 18.9	21-5 25-5 32-1 18-2 19.0	26-8 24-6 223-9 222-3 28-5	1	26.50
25-3	18-5 14-9 76-6 15-6 19-7	18-1 23-6 21-4 20-8 26-8	22-7 19-0 23-6 24-2 16-3	19-5 22-0 31-2 25-7 17-1	25-4 23-5 21-6 18-8 25-7	1	25.49
590 1,084 288	627 295 1,016 332 521	509 423 663 611 1,065	494 442 622 711 711	547 592 1,398 835 462	873 850 850 783 354 760	I	36,783
302 572 143	317 144 314 165 251	241 225 305 305 549	247 220 327 281 217	263 299 671 389 237	422 412 391 174 386	1	17,996 36,783
512 512 145	310 151 702 167 270	268 198 343 306 516	247 2222 341 384 209	284 293 293 293 293 225	451 438 392 180 374	1	18,787
30,746 39,634 17,434	31,563 18,482 16,235 19,558 26,497	27,940 16,704 31,342 27,407 37,134	21,373 23,344 28,762 30,363 24,267	26,777 25,044 44,180 38,734 25,745	33,477 35,392 34,466 17,416 28,098	2,280	
14,008 19,407 9,136	14,835 8,358 7,075 8,876 12,809	13,126 8,319 15,345 12,668 17,908	10,487 11,443 14,224 14,485 11,449	12,240 11,749 20,873 21,351 12,608	15,736 16,762 16,373 7,812 7,812 13,548	528	6,73,043 14,16,056
16,738 20,227 8,298	16,728 0,124 9,160 0,682 3,688	137-2 14,814 33-8 8,385 36-3 15,997 31-0 14,739 13-8 19,226	32:2 10,886 67:5 11,901 200:2 14,448 45:2 15,878 126:5 12,818	237-7 14,537 281-3 13,295 98-6 23,307 81-0 17,383 93-6 13,137	39.3 17,741 45.0 18,630 24.5 18,093 5.1 9,604 9.6 14,550	1,752	013
110-4 63-2 63-2	87-0 16,72 265-0 10,12 74-6 9,10 101-8 10,68 299-1 13,68	137-2 33-8 36-3 31-0 13-8	32-2 1 67-5 126-5 126-5	98-6 281-3 98-6 281-3 93-6 93-6	39-3 45-0 24-5 9-6	1	22.10
278·5920 110·4 16,738 179·2000 221·2 20,227 275·8400 63·2 8,298	362-6880 69-7600 217-6640 192-0640 88-5760	203-5840 494-6560 863-6800 884-5440 884-5440 2688-0000	663-0400 345-6000 143-2320 671-9360 191-8080	$\begin{array}{c} 112.6400\\ 89.0240\\ 448.0000\\ 479.0400\\ 275.1360\end{array}$	851-8400 788-4800 1409-2800 3407-3600 2949-1200	1	49-8453 31900-9920 55-10 737
0-4353 0-2800 0-4310	0:5667 0:1090 0:3401 0:3001 0:1384	0-3181 0-7729 1-3495 1-3821 4-2000	$\begin{array}{c} 1.0360\\ 0.5400\\ 0.2238\\ 1.0499\\ 0.2997\end{array}$	$\begin{array}{c} 0.1760\\ 0.1391\\ 0.7000\\ 0.7485\\ 0.4299\end{array}$	1-3310 1-2320 2-2020 5-3240 4-6080	I	49-8453 3
Purasawalkam Kosapet Vepery	Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleeswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	T. Nagar (North) Royapettah Pudupakkam Thuruvateeswaranpet Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do. (South)	Teynampet T. Nagar (South) Saidapet Guindy Adayar	Fort St. George	Total
22423	30 23 23 28	32 33 33	36 33 36 39 36 30 36	144444	44 49 49 49 50	10	
	H-3						

STATISTICS SUPPLEMENT No. 6.

Deaths registered in each Division during each month in 1957.

			10			
Total Deaths Registered (Excluding Still Births)	12 . 316 Land	1,240 615 1,386 1,628 2,111	682 728 683 918 538	497 461 319 236 236	603 1,114 1,358 809 832	993 571 590
December	31 4	126 68 134 143 185	81 82 82 82 82 82 82 82 82 82 82 82 82 82	45 28 28 28 28 28	59 118 145 86 100	18 4 4
Точетрег	0.00	117 32 141 166 219	31 8 2 4 5 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	24 11 18 29 18	91 91 62 68	36 68
October	30.11	84 102 126 154	562 562 101 101	17 256 42 17 256 17	88832	884 884 24
September	20.3	159 76 136 208 282	78 88 95 50	66 50 15 14	108 108 77 77	108 56 59
teuguA	Nose I	104 66 147 178 244	53 53 50	227255	59 104 59 59	33 23
July	82	131 54 119 119	844 844 844	22025	105 105 25 25 25	91 53 53
June	51.	118 65 143 161 192	58 53 53 53 53	<b>3348</b> 8	85 127 77 83	110 56 65
Мау	5 42	84 46 115 1123	et & & & & & & & & & & & & & & & & & & &	222233	34 50 51 34 51 51	62 47 34
linqA	33.9	120 100 33 82 127	332344 388	22443 13243	46 85 85 85 85	37 38
Матећ	6.230	71 30 115 108 150	149 142 122 122 140 140 140 140 140 140 140 140 140 140	12338833	43 76 63 58 58	<b>\$ \$ \$ 4</b>
February	1 M. THI	80 89 103 131	33 55 61 61 61 61	888888	38 93 66 79	84 8 8
January	BALS !!	84 69 102 141	858 868 87 87 87 88 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	21213	58 135 85 67	32 88
1405 200	821-840		11111		110 Sel	132.81
ivisions	14310	Control Control Control Control Control		1.2500 1.2500 0.1110 0.1110		
Names of Divisions	at Manhet	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Koil	Muthialpet Harbour Kachaleeswarar Koil Kothawal Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barracks Sembium	Aynavaram Kilpauk Purasawalkam
oN noisiviQ	104	-0040	10 10 10	12042	11 11 11 20	ក្កក្កក្ត

1					A CARLES OF	
1,084 288	627 295 1,016 332 521	509 423 663 611 1,065	494 442 622 711 426	547 592 1,398 835 462	873 850 783 354 760	36,783
103 27	72 113 34 50	51 56 68 62 137	45 25 40 25 40	55 71 147 99 53	114 91 70 86	3,849
94 24	48.332 88.332 88	33 35 35 35 35 35 35 35 35 35 35 35 35 3	35 59 57 57	61 53 55 44	94 56 56 56	3,053
12	<b>402</b>	44 84 81 81	37 41 35 37 4	54 127 31 31	77 67 28 67 67	2,974
98 24	3323233	51 54 102	8664414	45 115 40 40	22 6 2 8	3,556
89 27	44 266 47	864 82 82 82 82 82 82 82 82 82 82 82 82 82	51 35 46 28 86	38 51 50 25	58 744 342 51	3,155
91 24	30 239 36	444 44 44 44 44 44 44 40 10 10 10 10 10 10 10 10 10 10 10 10 10	51 85 25 85 85 85 85 85 85 85 85 85 85 85 85 85	55 122 76 76 76	69 86 86 86	3,023
115 26	67 36 33 33 65	54 36 67 76 101	58 56 81 81 81 81 81	53 179 98 46	76 101 80 82	3,899
74 15	228 37 282 37	28 31 55 86 86	3228333	38 105 38 38 38	<b>848828</b>	2,647
17 18	48 20 31 32 32	<b>4</b> 55248	31 28 35 35	37 93 36	52 52 59 59	2,555
32	55 19 88 49	40 64 67 67 67	32 32 32 32 32 32 32	36 36 36	232866	2,663
103	40 15 33 35 35	41 35 48 48 48 48 48 48 48 48 49 20 40 40 40 40 40 40 40 40 40 40 40 40 40	329 59 32 59 59	45 104 86 86 85 86 85 86 85 86 85 86 85 86 86 86 86 86 86 86 86 86 86 86 86 86	57 69 49	2,750
96 29	22222	45 265 389 75	31 31 26 44 45	32 57 57 57 57	53 55 65 27 55	2,659
::						
						Total
Kosapet Vepery	Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleeswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	<ul> <li>Theagaraya Nagar (North)</li> <li>Royapettah</li> <li>Pudupakkam</li> <li>Thiruvatteswaranpet</li> <li>Chepauk</li> </ul>	1 Triplicane 2 Zam Bazaar 3 Mirsahibpet 4 Mylapore (North) Do (South)	<ul> <li>Teynampet</li> <li>Theagaraya Nagar (South)</li> <li>Saidapet</li> <li>Guindy</li> <li>Adayar</li> </ul>	and a second sec
24	30328278	35,332	36 337 337 337 337 337 337	41 43 45 45 45	44 49 50 50	

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STATISTICS SUPPLEMENT No. 7.

Deaths registered among Principal Communities in each division during 1957.

			11-			
Total	registered (excluding still births)	1,240 615 1,386 1,628 2,111	682 728 683 918 538	497 461 319 288 236	603 1,114 1,358 809 832	993 571
ll nities	Females	632 321 706 837 1,076	356 350 338 423 245	257 221 157 117 107	293 557 698 380 431	440 270
All communities	Males	608 294 680 791 1,035	326 378 345 495 293	240 240 162 171 129	310 557 660 429 401	553 301
ers	Females	11111		:: 7	7.1.1.1.1	
Others	Males	::-::			9 : : : :	
lims	Females	31 51 86 48 224	c4-854	1 250 10 250 10 250	 86 86 39	22 8
Muslims	Rales	27 41 83 53 231	46 49 49	12 12 12 12 12 12 12 12	101 101 101 101 101 101 101 101 101 101	24 11
dus	Females	549 205 596 754 842	342 286 336 368 368 168	221 141 137 89 106	287 509 494 354	385 245
Hindus	Rales	534 572 700 790	307 304 209 209	217 151 145 127 127	301 526 330 333 333	504 268
ian tians	Females	50 24 10 10 24 25 0	11 16 13 33	16 3 3 8 1	241333	27
Indian Christians	Males	43 33 14 14	17 27 35 35	00 vu uu uu vu 00	52 332 10 7 32 32 10 7	25 21
Anglo- Indians	Females	° * :- :	-4 :00	11111		6
Ang	Rales	12 : 5 :	:00	:::		
Aliens	Females			;;;;;;	;;;;;	;;
Ali	Males				:::::	::
T	Name of Division	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Coil	Muthialpet Harbour Kachaleeswarar Koil Kothawal Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barracks Sembium	Ayanavarm
.ºN	Division	-0040	109876	112648	20 117 20	22

			er				
590 1,084 288	627 295 1,016 332 521	509 423 663 611 1,065	494 442 622 711 711 426	547 592 1,398 835 462	873 850 783 354 760	36,783	
302 572 143	317 144 165 165 251	241 225 305 549 549	247 220 220 231 217 217	263 299 671 389 237	422 412 391 174 386	17,996	83
288 512 145	310 151 702 167 270	268 198 343 306 516	247 341 384 209	284 293 727 225 225	451 438 392 374 374	18,787	36,783
	TIFIL		::::-	TITLE		5	20
	311111	:= : : :		: : : : :	::-,- :	15	1967
296	22 13 13	<sup>30</sup> <sup>21</sup> <sup>8</sup> <sup>30</sup>	75 1425 35	1 66 217 18 4	1933 133	1,823	3,804
- <sup>20</sup>	39 24 8 16	30 33 33 <sup>2</sup>	11 151 157 22	1 82 249 25 6 6	00400 0	1,981	3,
259 506 125	215 215 215	168 204 251 515 515	235 187 187 201 180 175	261 231 359 202	409 394 383 352 352	15,815 15,176	30,991
260 119	224 151 151 151 233	199 274 282 482	228 177 232 232 218 154	282 210 464 194	435 429 386 163 334	15,815	30,
37 28 12	41 15 21	34812 15 15 15	217 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3112.21	269555	868	1,779
2241	34 18 28: 34	821486	38657	13 13 25	310133	881	1,7
50	9 :000	4	i∞ - i i	:::-:		92	184
90	<b>a</b> :000	- 100 !	100111	:::		92	e bors
:::	11111	91111	11111	1111-		5	5
111		;;-;;	11111	1 1 10 1		3	Dester
101			North)	Notes and the second se	South)		:
Purasawakkam Kosapet Vepery	Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	TheagarayaNagar(North) Royapettah Pudupakkam Thiruvatteswaranpet Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do. (South)	Teynampet TheagarayaNagar(South) Saidapet Guindy	Total	Grand Total
The second second			CHHEV		T.C.WOX		
2223	85888 H-4	34333	6998338	144444	50 48 48 50 48 48		

STATISTICS SUPPLEMENT No. 8

	5383	ages	Totals of Males & Females	1 2,00,0	682 683 918 918	497 461 319 288 288 236	603 1,114 1,358 809 832
	96 36	Total of all	səlsməf	3702132	356 356 338 338 423	257 257 117 117 107	293 557 698 380 431
62,783	6'11 48	Total	Males	608 594 680 680	326 345 345 345	240 240 171 171	310 557 660 401
	181	an pun	Females	85 90 108	496925	8 64668	107 85 75 82 82
	SIL	and abo	Males 2	75 48 105 141	61 63 81 81 81	26 35 26 35	1115 1115 1115 1115 89 85
7.50		Sixty y	Females	18 35 488 35	4 9287 s	04140	374-225
g 1957.	nder uts	and un diffy yea	Males	42446	2228226	212 214	244333
uring		Fifty y	Females	333	21 14 21 21 21 21 21 21 21 21 21 21 21 21 21	811 811 110 50	15 23 23 28 28 210 210
and sex in each Division during	ars	Forty ye	Males	338 339	22219	61818	31 32 33
Divis		Forty y	Females	254 252 292 292	314128	×41100	23 33 23
ach I		thirty y	Males	31 33 33 35	8 012 12 12 12 12 12 12 12 12 12 12 12 12 1	2 Cl 8 0 4	18888
in e	818	Thirty years.	Females	402843	22238%	13 10 13	16 33 33 24 0 24
l sex	Japu	n pue	Males	328 66 67 80 80 80 80 80 80 80 80 80 80 80 80 80	32 12 13 12 13	01.800	519225
e and	90	Years.	Females	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12 20 20	30000 300000 20000000000000000000000000	41 8 22 9 4 1 32 9 4 1 34 1 34 1 34 1 34 1 34 1 34 1 34 1
according to age	Lapu	u bns	Males	1321	10 10 10 10		w09w0
ling		years.	Females	11 2 15		∞e :– :	48199
ccord	Tobr	and u	Males	9101	A LEWING		146 288
	ears.	Ten y	Females	44 36 717	19 (2): 19 (2)	10: - 010	26 24
gister	sis	u bng	Males	813813	the second	∞0∞w :	26 28
Deaths registered		years	Females	202 98 265 329	and the second se	166 51 63 166 51 63 166 51	65 163 107 107 107 90
Deatl	puer	nnder Vea	Rales	175 72 169 228 316		542 30 30 31 30 37 42	204 8 204 99 99
1		Vear.	Females	140 179 179 179 179 179 179		8 30 32 8 30 32 9	2 137 2 137 2 208 7 89
9	əuo	Under	Males	t 161 93 207 211 307	105 105 105 82	38655	172 172 182 107
latoT basiD	stoT	sion	ntp)	New Washermenpet Royapuram Singara Garden Sanjeevirayanpet Korukupet	pet.	pte obct. coil aar	sin  .racks
bus		Divi	oct Sec	herm am Jard ayan et	dge icken ells Coil	oet arar k l'Baz	n Ba ope r Bar
0	10	Name of Division	Doc.	New Washermen Royapuram Singara Garden Sanjeevirayanpe Korukupet	Vyasarpady Basin Bridge Peddunaickenpet Seven Wells Ammen Koil	Muthilapet Harbour Kachaleeswarar Koil Kothawal Bazaar Sowcarpet	Trevelyan Basin Choolai Pulianthope Perambur Barrac Sembium
		Nam	Texas	New Roy Sing Sanj Koru	Vya: Basi Pedd Seve	Mut Har Kach Kotł Sow	Trevely Choolai Pulianti Peramb Sembiu
	1.00	oN nois	Divid	-0.040	10 98 10 10	11111	116 117 118 119 20
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993 571 590 1,084 288	627 295 1,016 332 521	509 423 663 611 1,065	494 442 622 711 426	547 592 1,398 835 462	873 850 783 354	36,783	V :0
270 272 572 143	317 144 314 165 251	241 225 305 549	247 220 220 327 217	263 299 671, 389	422 412 391 174	and the second s	783
553 301 288 512 145	310 151 702 167 270	268 198 343 306 516	247 222 341 384 209	284 293 727 727 225	451 451 392 180		37.7
92 53 287 287	37 37 39 61	51 54 54 105 105	40 76 70 70 70	62 80 63 63	66 32 32 32	1 01	4
57 57 89 89	59 36 36 48	46 53 53 100	52 56 78 88 78	55 53 65 41 65	77 65 37	6	6,454
802425	31 31 8 8 8	212	41 202	31 19 11	19	1,008 3,	6
54 33 33 16	42 96 24	32 12 38 38 38	12 16 31 31 15	21 21 21 21 21 21	30	521 1.	2,529
13 26 12 28	13.0252	137 133	13 15 12 6	12123	15 15	8631	1-
282282	18 93 24	224210	19 26 19	21 21 20 20 20	24 24 158 158	,322	2,187
9228	17 54 10	15 13 13 22	10 15 15	e 115 6 23 23 6 0	17 21 21 21 22	964 1	19
640 2222480	105 105 18	9 12 31 31	10 26 26	02420	12 22 23	.042	2,006
34 10 10 10 10	10 4322	422247	12 66 19 19	228 254	29	1,164 1	19/
60 15 26 60	16 114 13	116 111 111 111 111 111 111 111 111	996251	202154	19 18 17		2,176
100000	10 16 15 16	9 11 13 13 12 2 8	00L400	4000 :	0 4000		2
01-040	w0.804	44mon	1 100	301110 800	N 0 4 - 0	301	662
ыбына	<u></u> 000	N4N40	w ci : w =	N40100	11 13	100	19
n4 :	01204	€ : 	- :004	00710	3 8 12	240	536
14 26 26	16 11 12 12	7 66 119 25	14 12 16 16	×125 8125 133	12 23 23		5
3712 813	10 26 26	155	00 6 11 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	229 4 9	15 238 15		1,545
95 179 31	69 540 740 740	63 93 140 140	50 50 28 28	69 177 109 61	120 91 91 91 91		1
92 66 114 26	57 57 57	100 100 100 100	59 66 81 81 82	58 63 1115 42	121 105 100 41 78	263 4,	9,017
30 152 433 30 152 4	31 36 33 36 59	70 93 135 135	77 59 73	54 173 59 59	115 1131 57 57	5,123 4,548 4,263 4,754	-
85 85 81 175 28 28	71 57 71	73 86 99 92 161	75 50 51 51	80 81 81 81 81 62 62	131 146 117 47 115	1234	9,671
		pet s	(j) : : : : :	1 : •	DV .	5.	:
am kkam Asoga	E **	Komaleeswaranpet Egmore Thousand Lights Nungambakkam Kodambakkam	T. Nagar (North) Rayapettah Pudupakkam Thiuvateeswaranpet Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (North) Do (South)	a Nagar	TTT	I
vara uk wak et	layar own Par dripar	e and I mba	Nagar yapettah dupakka uvateeswa epauk	azaa azaa nibpe ore (	nampet ugaraya (South) apet ndy var	Tota	Tota
Ayanavaram Kilpauk Purasawakkam Kosapet Vepery	Periamet Edapalayam Park Town Napier Park Chintadripet	Komaleeswaran Egmore Thousand Light Nungambakkan Kodambakkam	T. Nagar (N Rayapettah Pudupakkam Thiuvateeswaran Chepauk	Triplicane Zam Bazaar Mirsahibpet Mylapore (N Do (S	Teynampet Theagaraya (South) Saidapet Guindy Adavar	LVT P.Total	Grand Total
25 Kon Version	104 10 10 20 TO	State and the second	36 T. 37 Ra 38 Pu 39 Thi 40 Ch	41 T1 42 23 43 M 45 M 45 M	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1. 1.	G
NNNNN	365575	354331	wwwwa	44444	44 44 45 45 45 45 45 45 45 45 45 45 45 4		

VITAL STATISTICS

19738 9	8 A 8 12 12 19 19 19 19 19 19 19 19 19 19 19 19 19		- 21022	a constant	
Total Deaths Registered (excluding Still Births)	1,240 615 1,386 1,628 2,111	682 728 683 918 538	497 461 319 288 236	603 1,114 1,858 1,858 809 832	993 571 509
All other Canses	203 217 517 598 726	171 223 302 462 218	235 149 111 111	310 618 262 504	448 233
Maternal Deaths	16 16 6	0-400	- 0 -	44-   4	1000
Injuries	- e	14444	1-111	1-141	
General Respiratory Diseases	405 196 369 369	173 183 160 144	109 823 882 882 882	135 221 221 284 164 154	195 123 201
Tuberculosis including T.B. of lungs	12 - 13 - 1	333311 ¢	13 8 5 6 0	1562 1562	69 24
Diarrhoea	202 81 184 192 326	80 104 104 108 108 108 108 108 108 108 108 108 108	38 32 32 32	62 109 137 88 88 76	143 41 51
Dysentry	149 52 131 168	392732	1221	26 73 611 611 43	572
Other Fevers	11 240 305	173 79 55 85 85 45	337 882 34 37 882 37 882 37 882 37	37 324 214 28	56 90 14
sznsuftal	0 - 0		01	חדרון	0-]
Malaria		0		41111	1-1
Kala-azar			a Falda		544
Enteric Fever	v 104 m	01470		-0404	so co co
Measles				11111	-11
xoq-IIsm2	68 33 21 21	41123		13228	1-0
Сројста	83 21 15 76	57420 5420	<b>WO440</b>	игими	
Plague					
EREE	1148 511 511 511 511 511 511 511 511 511 51	629 254			to de la
Divisions Divisions	1 New Washermenpet 2 Rayapuram 3 Singara Garden 4 Sanjeevirayanpet 5 Korukupet	6 Vyasarpady 7 Basin Bridge 8 Peddunaickenpet 9 Seven Wells 10 Ammen Koil	<ul> <li>Muthialpet</li> <li>Harbour</li> <li>Kachaleeswarar Koil</li> <li>Kothawal Bazaar</li> <li>Sowcarpet</li> </ul>	16 Trevelyan Basin 17 Choolai 18 Pulianthope 19 Perambur Barracks 20 Sembium	21 Ayanavaram 22 Kilpauk 23 Purasawakkam

STATISTICS SUPPLEMENT No. 9

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					17				
1084 288 627	295 1016 332	521 502 423	663 611 1055	494 442 622	711 426 547	592 1398 835	462 873 850	783 354 760	36783
									2.12.1
375 137 268	166 707 148	180 205 230	248 253 438	189 212 254	258 192 383	422 479 378	231 525 463	456 155 396	15821
-4-	-44	102:	. 56	·1	wn4	-00	384	11 8 	150
- : :		:0:	: :0	::4	::-	-00 -	N=4	: -0	69
373 85 177	57 106 74	171 137 89	132 122 162	159 97 178	220 108 38	27 397 167	134 186 165	163 109 154	8604
12 39	72 10	0.00	:00	10 15	13.	13 20 11	96	004	69
288 288 28	39 101 41	73 43 29	70 57 117	3823	44266	48 271 132	10 67 65	203	4026
31 33	17 16 33	59 18 18	76 93	50 31 29	35 34 34	46.89	56 56	24 8 8 8 8 8	2640
51	1380	38.80	123 119 215	36 67 92	114 69 30	26 128 60	38 69	38 17 94	3773
111	: 9:		- : :			:-0		::-	26
	:. i	1:1	111	111	3:5	113		11 1	18
- : :	:::	:::	:::	::-	- : :	:-:	- : :	:::	10
	• 20	941	<u>м-л</u>	0 14	002	166	4-0	-02	187
13 5	121	2 1 8	3 18	7	192	67	8 19 15	940	428 2
<u>o</u>	<del>ω- :</del>	117	211	1-1	101	100		1	414
									1:
				North)	t		) South)		Total
24 Kosapet 25 Vepery 26 Periamet	27 Edapalayam 28 Park Town 29 Napier Park	30Chintadripet 31Komaleeswaranpet 32Egmore	33 Thousand Lights 34 Nungambakkam 35 Kodambakkam	36 Theagaroya Nagar (North) 37 Royapettah 38 Pudupakkam	39 Thiruvatteeswaranpet 40 Chepauk 41 Triplicane	42Zam Bazaar 43Mirsahibpet 44Mylapore (North)	45 Do. (South) 46 Teynampet 47 Theagaraya Nagar (South)	48 Saidapet 49 Guindy 50 Adayar	
		30 C 31 K 32 E	33 T 34 N 35 K	367 37R 38P	391 400 114	422 43 N 44 N	45 46 7 7	49 50 A	
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Births, Death and Infant Deaths, with Rates by Montins in 1957 and 1956.

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---|---|
| Infant Death<br>Rate.                            | 193-56  
  | 172:57  | 148-64   | 121.04  
   
   | 142-80   | 135.60   
   | 163-02  
   | 138-00  
   | 121-81   | 118-70  | 146.50   | 156-67  | 145-24  |
| Infant Deaths.                                   | 835   
  | 828   | 768  | 664   
   
   | 804  | LTT  
   | 921   
   | 846   
   | 969  | 069   | 879  | 1,092   | 9,800   |
| Death Rate.                                      | 20-82   
  | 20:74   | 20-01  | 17-43   
   
   | 18-70  | 17-80  
   | 19-80   
   | 18-61   
   | 17-70  | 17-84   | 21.80  | 26.37   | 19-90   |
| Deaths Regis-<br>teredExcluding<br>Still Births. | 2,958   
  | 2,945   | 2,843  | 2,475   
   
   | 2,659  | 2,525  
   | 2,816   
   | 2,819   
   | 2,513  | 2,534   | 3,094  | 3,746   | 33,927  |
| Вігth Rate.                                      | 30-37   
  | 33-80   | 36-24  | 38.62   
   
   | 39.64  | 40.34  
   | 40 20   
   | 43.21   
   | 40.20  | 41.00   | 42.24  | 48.50   | 39-59   |
| Births Regis-<br>teredExcluding<br>Still Births. | 4,314   
  | 4,798   | 5,167  | 5,486   
   
   | 5,631  | 5,730  
   | 5,711   
   | 6,138   
   | 5,714  | 5,814   | 6,000  | 6,973   | 67,476  |
| Infant Deaths<br>Rate.                           | 160-33  
  | 162-81  | 119-30   | 113-63  
   
   | 118-88   | 146.75   
   | 144-88  
   | 173-54  
   | 165-76   | 118-89  | 133-79   | 136-77  | 139-76  |
| Infant Deaths.                                   | 700   
  | . 683   | 676  | 667   
   
   | 753  | 883  
   | 879   
   | 930   
   | 945  | 735   | 809  | 1,011   | 9,671   |
| 111  |   
  | 71  | 1.1  | -   
   
   |  |  
   |   
   | 1   
   | 3  |   | 1 2  | :   | -   |
| Death Rate.                                      | 18.14   
  | 18-76   | 18-17  | 17-44   
   
   | 18-06  | 26.65  
   | 20.63   
   | 21-53   
   | 24-27  | 20.30   | 20-83  | 26-27   | 20-92   |
| Deaths Regis-<br>teredExcluding<br>Still Births. | 2,659   
  | 2,750   | 2,663  | 2,555   
   
   | 2,647  | 3,899  
   | 3,023   
   | 3,155   
   | 3,556  | 2,974   | 3,053  | 3,849   | 36,783  |
| Birth Rate.                                      | 29-80   
  | 28-62   | 38-67  | 40.05   
   
   | 43-16  | 41-06  
   | 41.40   
   | 36-57   
   | 38-90  | 42-20   | 41.40  | 50-44   | 39-35   |
| Births Regis-<br>teredExcluding<br>Still Births. | 4,366   
  | 4,195   | 5,667  | 5,870   
   
   | 6,334  | 6,017  
   | 6,067   
   | 5,359   
   | 5,701  | 6,182   | 6,047  | 7,392   | 69,197  |
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| Mont   | anuary and an   
  | tebruary  |  |   
   
   | Maynumbaggau   | une pessentoba Mafar (Mon  
   | uly service service   
   | August  
   | september  | Detober   | Vovember   | December  | Total   |
|  | MainMainSillBirths Regis-teredExcludingStill BirthsStill BirthsStill Births.Birth Rate.Deaths Regis-teredExcludingStill Births.Birth Rate.Deaths Regis-teredExcludingBirth Rate.Deaths Regis-teredExcludingStill Births.Births Rate.Deaths Regis-teredExcludingteredExcludingteredExcludingStill Births.Birth Rate.Death Rate.Death Rate.Birth Rate.Still Births.teredExcludingStill Births.Births Regis-teredExcludingStill Births.Birth Rate.Death Rate.Birth Rate.Death Rate.Births Regis-Still Births.Births Regis-Birth Rate.Birth Rate.Birth Rate.Births Regis-Birth Rate.Births Regis-Birth Rate.Birth Rate.Births Regis-Births Regis-Births Regis-Birth Rate.Birth Rate.Births Regis-Birth Rate.Birth Rate. <t< td=""><td><ul> <li>Months</li> <li>Months</li></ul></td><td>WonthsMonths</td></t<> <td>Months<td>MonthsMonthsImage: Similar StructureImage: StructureImage: Similar Str</td><td>Months         Months         Months         Months         Months           If         If<!--</td--><td>Months         Rinths         Regis-<br/>setistic<br/>Rinths         Solution<br/>Received<br/>Statin<br/>Rinth Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rate.         <thsolution<< td=""><td>Months         Rinths Registered<br/>(secold: Still Births Registered<br/>Still Births Rate         Nonths           ip          4,366         29*80         2,659         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,653         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,750         18*16         669*33         4,314         30*37         2,958         2074         828         172*57           h          5,867         38*67         2,663         18*17         676         113*63         5,486         38*62         2,475         1743         66         121*64           n          5,348         38*62         2,475         1743         664         121*64            6,313         39*64         2,573         40*34         5,573         40*45         2,5735         1743</td><td>Months         is series         i</td><td>Months         is-<br/>series         is-<br/>series&lt;</td><td>Months         is-ing<br/>tai-<br/>is-<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>in 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Solution<br/>Rinths         Solution<br/>Received<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rate.         <thsolution<< td=""><td>Months         Rinths Registered<br/>(secold: Still Births Registered<br/>Still Births Rate         Nonths           ip          4,366         29*80         2,659         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,653         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,750         18*16         669*33         4,314         30*37         2,958         2074         828         172*57           h          5,867         38*67         2,663         18*17         676         113*63         5,486         38*62         2,475         1743         66         121*64           n          5,348         38*62         2,475         1743         664         121*64            6,313         39*64         2,573         40*34         5,573         40*45         2,5735         1743</td><td>Months         is series         i</td><td>Months         is-<br/>series         is-<br/>series&lt;</td><td>Months         is-ing<br/>tai-<br/>is-<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section</td><td>Months         Registing<br/>for Colling Birth Rate<br/>(crothing Birth Rate<br/>Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rat</td><td>Months         is-<br/>is-<br/>is-<br/>browned<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-</td></thsolution<<></td></td> | MonthsMonthsImage: Similar StructureImage: StructureImage: Similar Str | Months         Months         Months         Months         Months           If         If </td <td>Months         Rinths         Regis-<br/>setistic<br/>Rinths         Solution<br/>Received<br/>Statin<br/>Rinth Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rinths         Solution<br/>Received<br/>Rate.         Solution<br/>Rate.         <thsolution<< td=""><td>Months         Rinths Registered<br/>(secold: Still Births Registered<br/>Still Births Rate         Nonths           ip          4,366         29*80         2,659         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,653         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,750         18*16         669*33         4,314         30*37         2,958         2074         828         172*57           h          5,867         38*67         2,663         18*17         676         113*63         5,486         38*62         2,475         1743         66         121*64           n          5,348         38*62         2,475         1743         664         121*64            6,313         39*64         2,573         40*34         5,573         40*45         2,5735         1743</td><td>Months         is series         i</td><td>Months         is-<br/>series         is-<br/>series&lt;</td><td>Months         is-ing<br/>tai-<br/>is-<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section<br/>section</td><td>Months         Registing<br/>for Colling Birth Rate<br/>(crothing Birth Rate<br/>Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rat</td><td>Months         is-<br/>is-<br/>is-<br/>browned<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-</td></thsolution<<></td> | Months         Rinths         Regis-<br>setistic<br>Rinths         Solution<br>Received<br>Statin<br>Rinth Rate.         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Solution<br>Rate. <thsolution<< td=""><td>Months         Rinths Registered<br/>(secold: Still Births Registered<br/>Still Births Rate         Nonths           ip          4,366         29*80         2,659         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,653         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,750         18*16         669*33         4,314         30*37         2,958         2074         828         172*57           h          5,867         38*67         2,663         18*17         676         113*63         5,486         38*62         2,475         1743         66         121*64           n          5,348         38*62         2,475         1743         664         121*64            6,313         39*64         2,573         40*34         5,573         40*45         2,5735         1743</td><td>Months         is series         i</td><td>Months         is-<br/>series         is-<br/>series&lt;</td><td>Months         is-ing<br/>tai-<br/>is-<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>in the<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>section<br/>section<br/>in the<br/>section<br/>section<br/>in 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        Registing<br/>for Colling Birth Rate<br/>(crothing Birth Rate<br/>Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rate<br/>(crothing Birth Rate)<br/>(crothing Birth Rate)<br/>(crothing Birth Rat</td><td>Months         is-<br/>is-<br/>is-<br/>browned<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-<br/>is-</td></thsolution<<> | Months         Rinths Registered<br>(secold: Still Births Registered<br>Still Births Rate         Nonths           ip          4,366         29*80         2,659         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,653         18.14         700         160*33         4,314         30*37         2,958         2082         835         193*56           inty          5,667         38*67         2,750         18*16         669*33         4,314         30*37         2,958         2074         828         172*57           h          5,867         38*67         2,663         18*17         676         113*63         5,486         38*62         2,475         1743         66         121*64           n          5,348         38*62         2,475         1743         664         121*64            6,313         39*64         2,573         40*34         5,573         40*45         2,5735         1743 | Months         is series         i | Months         is-<br>series         is-<br>series< | Months         is-ing<br>tai-<br>is-<br>section<br>in the<br>section<br>section<br>section<br>in the<br>section<br>in the<br>section<br>section<br>in the<br>section<br>in the<br>section<br>in the<br>section<br>section<br>in the<br>section<br>section<br>section<br>section<br>in the<br>section<br>section<br>in 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| Months         Registing<br>for Colling Birth Rate<br>(crothing Birth Rate<br>Birth Rate<br>(crothing Birth Rate)<br>(crothing Birth Rate)<br>(crothing Birth Rate<br>(crothing Birth Rate)<br>(crothing Birth Rate)<br>(crothing Birth Rat | Months         is-<br>is-<br>is-<br>browned<br>is-<br>is-<br>is-<br>is-<br>is-<br>is-<br>is-<br>is-<br>is-<br>is- |

			1	12					
	Infant death rate	37-04	126-58	111-27	188-20	143-40	83-33	1	145.24
20	Infant deaths registered	10	30	382	1,026	8,357	4		9,800
4.2.4	Death Rate	9.13	10-27	16.68	24-22	24,90	1.22		23-90
1956	Total number of deaths registered excluding still Births)	14	136	1,591	3,398	28,776	12		33,927
	Birth n rate (6	17.60	18.00	36.00	38-55	50-86	147	n edin	47.65
	Total number of Births registered (excluding still Births)	27	237	3,433	5,452	58,279	48	m'xl2 b	67,476
	Infant death rate s	25.00	144-80	125-57	212-73	133-93	Ē	n dinas	139-76
	Infant deaths registered	e 102	32	416	1,180	8,042		m anO b	9,671
-	Death	3.22	13-90	18-65	27-11	26.82	2.03	a vid	20-92
1957	Total number of deaths registered (excluding still births)	5	184	1,779	3,804	30,991	20	Contract	36,783
	Birth rate	26.10	16-68	34-73	39-53	53-70	3.00	-	39.35
	on Total at births of registered still Births	40.	221	3,313	5,547	60,046	30		69,197
	Population according to the census of 1951	1,534	13,247	95,387	140,319	1155,722	9,847		14,16,056
	Others Community P	Aliens concentrat.	Anglo-Indians	Indian-Christians.	Muslims	Hindus	Others	in the second	Total 14,16,056

STATISTICS SUPPLEMENT No. 12

Infant deaths among principal communities during 1957

19181 ... 12,14/026

Total of nales anb females	(43.40	188-30	111.52	0	20704		tusin t			
Total of males anb females	1327	2032	385	30 32	416	1,180	8,042			9,671
Total	Females	14-32	0.08	14	200	562	3,772	:		4,548
To	Males	305	1	18	216	618	4,270		1926	5,123
ths and ne year	Females	225		9	. 76	204	1,258		and a	1,544
Six months and under one year	Males	122		5	11	173	1,319			1,568
Seven days and One month and under one month under six months	Males Females			3	59	213	1,241			1,516
One moi under si	1 million	1180	418	6	65	247	1,335			1,656
ys and e month	Males Females	H H Y		4	26	65	475		1	570
Seven da under on	Males	1 408.1	1	38 I	20	71	555		3	654
a line and	Males Females	19.22	:	10.00	39	80	798		E.	918
Under seven days	Males	inerit i		• •••	09	121	1,061		in the second	1,245
			:	:	:	Seven a		:		
Community	1122'150	VIC-ONI			1'234	Not and and				Total
Commu	-		disar	su	stians -					TANKER .
Others .	aubtiH	zmilant	Aliens Contractor	Anglo-Indians	Indian Christians	Muslims	Hindus	Others		BILINE

STATISTICS SUPPLEMENT No. 13.

in the second se	124
LI	6
<u>n</u> –	-0

Total Infant Deaths	Rate	22-37	12.66	32.80	32.17		100.00
Total De	Deaths	2.772,163	7-03 1,224	7-03 763 24.063,172	1.61 634 20.373,112		2,755 28.50377 3.90 2,979 30.80 1,543 15.969,671
Other causes	Rate			24.06	20.37		15-96
cai	Deaths	09	86	763	634	Liid	1.543
Infantile Debility Malnutri- tions, pre- mature births etc.	Rate	84-79	872 71-24			5	30.80
	Deaths	39 1.80 1,834 84.79		223	50		2.979
Convul- sions	Rate	1-80	9-97 35 2-86	6.87	2.73		3-90
	Deaths		35	218	su 85 m v no	- 1	377
seases of e Respi- ratory system	Rate	7.54		37-01	41.65	T. LANSING	28-50
Diseases of the Respi- ratory system	Deaths	163	122	1,174	1-296		2.755
Diar- rhoea	Rate	0.74	36 2.94	247 7·79 124 3·91 375 11·82 1,174 37·01 218 6·87	0-03 247 7-94 278 8-93 457 14-69 1-296 41-65 85 2-73	2 an at	9.14
	Deaths	16	36	375	457	1	884
Dysen- tery	Rate	3:13	16 1.30	1 3-91	8 .93	1000 B	0.01 595 6.15 418 4.32 884
	Deaths			9 124	4278	1	5418
Other fevers	Rate	51 2.36	50 4.09	L-L L	6-1 1		5 6.1
	Deaths		2	24	3 24		1 59
Mala- ria	Rate	1.1.1.1			1 0.0	101	0.0
	Rate Deaths		: ::				0.02
Typ- hoid	Deaths		10		5		20
Diph- theria	Rate		1 0.08	2 0.06.	10 0.32 2 0.06	TUR	13 0.13
	Deaths		1	10	10.001		13
Meas- Ies	Rate		10 0		:	R	
	Deaths		61		mail Pro 72		3
Small- pox	Rate		6 0.49	45 1.42	0.10 49 1.57	-	0.04 100 1.03
	Deaths				0	1 -	4 100
Cholera	Rate			0.03		1	-
	Deaths		:	-	6	1	4
Age periods	stut.	Under one week	One week and under one month	One month and under six months	Six moths and under one year		Total

STATISTICS SUPPLEMENT No. 14.

Infant Deaths from Principal Causes during each month in 1957

Total Infant Deaths	700	683	676	667	753	883	879	930	945	735	809	1,011	9,671
Other causes	74	108	81	11	III	204	124	177	169	128	126	164	1,543
Infantile debility and Malnutritions including prema- ture Births and other diseases of early infancy	253	245	236	224	246	264	257	238	227	208	267	314	2,979
snoisluvno <b>D</b>	18	17	23	25	37	32	41	40	46	24	33	41	377
Diseases of the Respiratory system	180	169	197	188	211	232	229	265	305	252	239	288	2,755
Біагтһоеа	16	80	76	11	48	73	102	104	84	41	51	63	884
Dysentery	30	33	25	22	22	27	52	51	44	20	29	63	418
Other Fevers	51	30	27	46	65	46	68	47	56	53	48	58	595
Malaria	:	:	:	:			:				I		ind in
Enteric Fever	:	:	:	:	1	:	:	:	1				2
Diphtheria	2	:	1	2	:	:	1	7	:	1	3	1	13
Measles		:	:	:	:	:	:	:	:	:	-	:	In La
xoA llam2	-	1	10	12	12	5	5	4	12	~	Ш	19	100
Сһоlега	:	:			:		Dog	5	1	:	1	:	4
		:		:			in it	:				:	
Months	January	February	March	April	May	June	July	August	September	October	November	December	Total

STATISTICS SUPPLEMENT No. 15.

10,818 21,796 519 135 69,197 183 10,430 4,478 6 20,777 38 đ Total 117 15 and Not above stated 95 68 385 57 38 C -: : : 1 5 3 3 ÷ ŝ : : : i i i 13 2 9 14 ÷ : : : :: -: .... -Statement of Live Births by age of mother and order of Live Births registered in order of confinement at Live Births during 1957. 34 2 13 -13 : : : : : : 2 16 5 18 31 41 12 3 ŝ --Order of Confinement of Live Births 290 73 160 35 4 3 -: : ŝ -÷ 11 609 46 300 59 161 2 : ÷ -1,188 145 454 483 14 82 2 : ŝ 2 : 6 2,164 414 46 894 106 2 687 ÷ .... : 00 3,642 204 1,182 427 759 2 62 : : :: 2 5,326 489 2,278 1.850 643 9 49 : : : ŝ 9 7,484 1,213 522 33 3.977 32 00 18 1,681 --: ŝ -5 9,125 108 2,680 4,337 1,580 383 2 9 29 ÷ ŝ ŝ --4 5,157 210 ... 14,889 12,429 11,513 953 3,994 1,167 20 1 : : 3 i 145 8 25 2,289 13 6,567 2.791 591 -1 : : : : 2 45 175 53,20 ,475 408 0 7,371 85 : : -: --: .... : 50 years and above... : -: : -: 15 years and under : : : Age of Mother Under 15 years \$ 45 at Birth 35 30 25 Total 20 years. Not stated .. 45 years .. 46 9 49 35 20 25 30 47 48

STATISTICS SUPPLEMENT No. 16.

Deaths registered from Principal Causes with death rates during 1957 as compared with the previous five years

leaths	Rate	29-03	28.37	20-78	20-76	19-90		23.80	20.92
Total deaths	Deaths	43,207	43,753	9-80 33,181	34,264	33,927	-	37,667	36,783
All other causes	Rate	13-88	13-36	08.6	16-6	69-6	in	11-33	10.31
All cau	Deaths	20,649	20,599	150 0.10 15,637	161 0.10 16,357	153 0.09 16,510	-	17,950	150 0.09 18,137
ths	Rate	0-10		0.10	0.10	60-0	1	0.10	60.0
Maternal deaths	Deaths	155	155 0-10	150 (	161	153 (		155 (	150
Injuries	Rate	0-36	0.34	0-31	497 0-30	495 0-29		0.32	523 0.30
Ē	Desths	536	525	488			-	508	
nira- ry ises	Rate	18.9	6.50	5.14	4 93	4 51		5.58	4-89
General Respira- tory diseases	Deaths	10,137	10,010 6.50	8,198	8,142	169'L		8,836	8,604 4-89
Tuber- culosis including Tuber- culosis of lungs	Rate	0-42	0.31	0.25	0-27	0-23	10	0-30	0-35
Tul Tul	Deaths	627	471	403	442	396 0.23		468	615 0.35
loca	Rate	61-1	1.62	1-19	1.45	69.1	5	1-55	1.45
Diarrhoea	Deaths	2,665	2,493	1,892 1-19	2,392 1.45	2,883		2,465 1-55	2,545 1.45
ery	Rate	2.65	2.40	1.70	1.69	1.49		1-99	1 50
Dysentery	Desths	3,949	3,698	2,642	2,788	2,533	10	3,122 1	2,640 1 50
	Rate	2:57	3.04	2.00	1.93			2:26	1.43
Other Fevers	Deaths	3,823	4,684	3,115	3,191	3,022 1.77		3,567	2,520 1.43
aria	Rate	0.05	90.0 96	0.07	0.05	0.02	-	77 0.05	18 0.01
Malaria	Deaths	75	96	105	75	33		1	18
ver	Rate	0.19	215 0.14	234 0.15	182 0-11	143 0.08		0.13	0.10
Enteric Fever	Desths	276 0-19	215	234	182	143	-	210 0.13	187
Measles	Rate	0.004	1	0-003	10		00	100 0	0.001
W	Desths	9		5		*		19 19	5
Small- pox	Rate	60.0	0.06	0-20	0.02	0.04		0.08	0.24
S	Deaths	127	98	305	37	68		127	428
Cholera	Rate	0.12	0.46	0-004	÷	bau		0.12	0-24
Ch	Desths	182	709	F		- 51	163	180	414
Plague	Rate Desths		-	-	- :		2		:
20 Act		1952	1953	1954 .	1955	1956	Meanof	the pre- vious five years.	1957

24

		100		Pr	Primary V	Vaccination	ų				Revaccination	ination		
Months		Z	umbe	Number of Persons Vaccinated	suos.		Results		Numt	Number of Persons Revaccinated	rsons	10. 21/2 21/2 12/2	Results	0.0
		Ma	les F	Males Females	Total	Success- ful	Failure	Absent	Males	Females	Total	Succes- ful	Failure	Absent
January			2,448	2,422	4,870	4,848	1	21	11,436	11,861	23,297	766	17,484	5,047
February	- 100 - 1	: 2	2,935	2,910	5,845	5,840	:	5	14,000	14,484	28,484	1,330	21,286	5,868
March			3,242	2,968	6,210	6,208		. 2	34,267	36,599	70,866	5,185	51,226	14,455
April			2,707	2,524	5,231	5,213		18	43,122	40,105	83,227	4,606	57,894	20,727
May	1.161		1,896	1,830	3,726	3,721		5	23,736	21,360	45,096	1,794	32,605	10,697
June			1,656	1,519	3,175	3,173		2	606;9	6,731	13,640	513	9,726	3,401
July			2,225	2,058	4,313	4,311	2		9,673	8,698	18,371	692	12,983	4,696
August	23. IOI	1	1,816	1,681	3,497	3,474	ACD	23	9,366	8,971	18,337	737	13,653	3,947
September		1	1,704	1,646	3,350	3,349		1	7,445	7,678	15,123	720	11,155	3,248
October			2,120	2,063	4,183	4,174	100	8	10,538	12,421	22,959	897	17,934	4,128
November	o he		2,310	2,236	4,546	4,537	I	8	10,774	11,712	22,486	757	15,591	6,138
December	-i		2,591	2,602	5,193	5,189	1	3	12,260	11,583	23,843	778	17,044	6,021
	Total	27	27.680	26.459	54,139	54,037	9 .	96	193,526	192.203	3.85.729	18 775	2 78 581	88 373

STATISTICS SUPPLEMENT No. 17

Particulars of Vaccination performed in each Division during 1957

\*

sults	Revaccination	10.8 6.0 6.4 6.4 6.4 6.4 6.4 6.4 12:8 12:8 12:9 15:3 11:7 11:7 11:7 11:7 11:7 11:7 11:7 11	1.8
the re were ki	Ртітату	0.001 0.00100000000	100-0
Per al	Absent	2,588 1,247 1,621 3,656 797 878 1,245 1,013 878 1,013 878 2,218 2,039 982 982 982 982 982 2,150	726
kesult	Failure	4,357 3,443 7,999 3,928 4,842 3,4537 4,637 2,962 2,962 2,568 7,992 8,134 5,748 5,748 5,748 5,748 5,748 5,748 5,748 5,748 5,748	7,779
F	Inizzooul	227 227 2275 2275 2275 2275 2275 2275 2	144
The second	Total	7,472 4,911 10,791 7,851 5,914 5,914 5,662 5,662 5,662 5,662 5,621 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,887 5,221 5,2	8,642
Total	Females	3,588 2,514 5,202 5,202 3,166 5,731 3,022 2,836 1,928 1,928 1,928 1,928 1,928 2,836 3,851 1,928 2,836 3,851 1,928 2,836 3,851 3,855 3,851 3,951 3,95	3,309
NICA	Males	3,884 5,589 3,713 3,713 3,038 2,589 2,4205 2,4205 2,4205 2,4205 2,385 3,959 3,959 3,959 3,959 5,587 3,045 3,945 3,0453,045 3,	5,350
7	Unknown	8881333 888133 888133 888133 888133 888133 888133 888133 888133 888133 88813 88813 88813 8881 8881 888 888	
1	fota	1,35 1,71 1,71 1,74 1,123 2,232 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332 2,332	1,089
Ini	Ten years and above	· · · · · · · · · · · · · · · · · · ·	
essi	under ten years.	111 122 126 128 128 128 128 128 128 128 128 128 128	00 0
Succe	five years	383 383 396 396 396 112 1170 1170 1170 1170 1170 1170 1170	226
12	Under one yer	965 513 513 1,165 1,250 1,190 697 697 697 697 725 520 520 520 520 578 1,725 1,725 1,165 1,1750 1,190 1,100 1	854
-	Total		1,089
Total	Females		531
236	Males	X 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	558
marca	Total		9,738
D A A A A	Females		3,840
The Ind	Males	-	5,898
t c	Population as pe	$\begin{array}{c} 31,369\\ 20,851\\ 43,196\\ 51,378\\ 36,606\\ 24,788\\ 36,606\\ 22,919\\ 15,971\\ 15,971\\ 15,971\\ 15,971\\ 15,271\\ 15,271\\ 15,271\\ 15,271\\ 15,271\\ 15,977\\$	29,505
Alsuper,	Name of Division	1       New Washermenpet         2       Royapuram         3       Singara Garden         4       Sanjeevirayanpet         5       Korukupet         6       Vyasarpadi         7       Basin Bridge         8       Peddunaickenpet         9       Seven Wells         10       Ammen Koil         11       Muthialpet         12       Harbour         13       Kachaleeswarar         6       Younal Bazaar         15       Sowcarpet         16       Trevelyan Basin         17       Choolai         18       Pulianthope	s
	Total Successful	Populationass peroPopulationass peroNalesNalesTotalTotalTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalMalesTotalTotalTotalTotalTotalMalesTotalTotal </td <td>Total         Total         Successful         Total         Successful         Total         Result         Res</td>	Total         Total         Successful         Total         Successful         Total         Result         Res

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6,379	7,359	5.777	1,966	5,424	2,590	21-2-6-	3,992	6,044	4,920	c7c's	6,054	2,714	21262	5,837	2,626	2,606	7,387	9.775	4,036	0,739	13 550	0 244	4.676	6,191		2,78,581 8
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8,199	9,654	7.547	2,410	6,132	4,921	2.0%	6,236	6,998	7,692	1,400	7,737	7.245	26.	7,897	5,000	3.776	8,861	1,219	6,026	3,690	7 640	4,046	5.419	1,424		85,729
3,695	4,208	4,410	1,315	3,493	2,006		2,546	3,206	4,054	1 160'0	3,644	3.539	(anti-					1.0		_						54,037 96 1,99,526 1,92,203 3,85,729
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																										27,680 26
										117601	8,593	8,281														4,39,868
4,806	4,976	4,892	1,635	101.0	2,095		3,016	5,816	4,541	cttt'n	4,058	4,072		4,519	2.527	2,381	5,812	5,716	4,105	1,405	9,436	7,875	2,471	7,113		2,18,662
4,788	6,280	3,742	1,414	2,908	2,852		4,123	5.386	4,153	07060	4,535	4,209		4,511	2,425	2,236	4,758	6,875	2,122	0+0'/	9,966	7,431	3,592	5,640	1	2,21,206
30,746	9,634	31,563	8,482	0,230	6,497	-	27,940	10,/04	27,407	+014/0	21,373	28,672		30,363	26.777	25.044	44,180	38,734	25,745	114.00	35.392	34,466	17,416	28,098		14,16,056 2,21,206 2,18,662 4,39,868
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23 Purasaw	osap	eriam	dapal	ark 1	Chinta	Comal	pet.	house	Vunga	Che a	Nag	udup	<b><i><u><u></u></u> </i> <u></u><b></b></b>	pet.	Triplic	Cam B	dirsa.	Aylap	A	L h e	Nag	aidal	Juind	Adays		Total
	alkam 30.746 4.788 4.806 9.594 544 501 1.045 866 165 13 1.044 4.244 4.305 8.549 500 6.458 1.591 99-8	alkam $22,910$ $4,900$ $4,120$ $9,124$ $501$ $401$ $401$ $922$ $129$ $153$ $86$ $165$ $13$ $1,044$ $$ $4,244$ $4,305$ $8,199$ $482$ $6,379$ $1,338$ $10000$ $100000$ $10000$ $10000$	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array} \end{array} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array} \end{array} \\ \end{array} \end{array} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array} \end{array} \\ \end{array} \\ \end{array} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array} \\ \end{array} \\$	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$	$ \begin{array}{c} \text{Ikam} \dots & \frac{22}{3}, \frac{51}{7}, \frac{4}{7}, \frac{4}{7}, \frac{401}{7}, \frac{401}{7}, \frac{401}{7}, \frac{501}{7}, \frac{1045}{7}, \frac{86}{7}, \frac{103}{7}, \frac{1044}{1}, \frac{4}{7}, \frac{500}{7}, \frac{5}{7}, \frac{5}{7}, \frac{9}{7}, \frac{100}{7}, \frac{4}{7}, \frac{100}{7}, \frac{1000}{7}, \frac{10000}{7}, \frac{1000}{7}, \frac{10000}{7}, \frac{10000}{7}, \frac{10000}{7}, \frac{10000}{7}, \frac{10000}{7}, \frac{10000}{7}, $	am $26,910$ $4,700$ $4,100$ $9,594$ $544$ $501$ $1,045$ $866$ $39,634$ $6,280$ $4,976$ $11,256$ $834$ $168$ $1,602$ $1,331$ $31,563$ $3,742$ $4,892$ $8,634$ $605$ $482$ $1,087$ $901$ k $17,434$ $2,108$ $1,751$ $3,859$ $280$ $275$ $555$ $492$ 3,742 $4,892$ $8,634$ $605$ $482$ $1,087$ $901k 16,235 2,908 3,777 6,665 269 264 533 449k 19,558 3,227 2,313 5,540 312 307 619 494atan- 26,497 2,852 2,095 4,947 480 421 901 726$	$ \begin{array}{c} \text{am} \dots & 2.7916 \\ \text{arm} & 7.926 \\ \text{arm} & 7.920 \\ \text{arm} & 7.920 \\ \text{arm} & 7.92$	$ \begin{array}{c} 2.7910 \\ 30,746 \\ 4,788 \\ 4,788 \\ 4,806 \\ 3,554 \\ 5,108 \\ 1,751 \\ 3,859 \\ 2,777 \\ 1,848 \\ 1,806 \\ 3,556 \\ 3,304 \\ 3,157 \\ 5,555 \\ 492 \\ 1,11256 \\ 834 \\ 100 \\ 10,555 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,802 \\ 3,137 \\ 4,810 \\ 7,547 \\ 2,908 \\ 3,777 \\ 1,472 \\ 1000 \\ $	$ \begin{array}{c} 22,2910 \\ 30,746 \\ 4,788 \\ 4,806 \\ 3,594 \\ 5,816 \\ 5,916 \\ 5,926 \\ 5,916 \\ 5,926 \\ 5,916 \\ 5,926 \\ 5,926 \\ 5,926 \\ 5,926 \\ 5,926 \\ 5,926 \\ 5,926 \\ 5,9$	$ \begin{array}{c} 2.7916 \\ 3.0746 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.786 \\ 4.788 \\ 4.786 \\ 4.788 \\ 4.786 \\ 4.788 \\ 4.786 \\ 4.788 \\ 4.786 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.788 \\ 4.777 \\ 4.754 \\ 4.788 \\ 4.789 \\ 4.739 \\ 4.739 \\ 4.739 \\ 4.739 \\ 4.739 \\ 4.739 \\ 4.759 \\ 4.777 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.754 \\ 4.906 \\ 4.788 \\ 4.777 \\ 4.75 \\ 4.760 \\ 4.75 \\ 4.728 \\ 4.740 \\ 4.77 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.77 \\ 4.75 \\ 4.761 \\ 4.77 \\ 4.75 \\ 4.761 \\ 4.77 \\ 4.75 \\ 4.76 \\ 4.77 \\ 4.75 \\ 4.76 \\ 4.70 \\ 4.75 \\ 4.761 \\ 4.77 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.75 \\ 4.761 \\ 4.761 \\ 4.761 \\ 4.046 \\ 5.33 \\ 4.97 \\ 1.900 $	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$ \begin{array}{c} 27,970 \\ 30,746 \\ 4,788 \\ 5,806 \\ 5,594 \\ 5,108 \\ 1,751 \\ 5,555 \\ 5,555 \\ 4,976 \\ 11,256 \\ 5,555 \\ 4,976 \\ 11,256 \\ 1,562 \\ 5,555 \\ 4,976 \\ 1,256 \\ 5,555 \\ 4,976 \\ 1,256 \\ 5,555 \\ 4,976 \\ 1,256 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 5,55 \\ 4,91 \\ 5,555 \\ 5,546 \\ 5,55 \\ 5,55 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 4,91 \\ 5,555 \\ 5,908 \\ 5,777 \\ 5,96 \\ 5,93 \\ 5,91 \\ 5,91 \\ 5,90 \\ 5,133 \\ 5,940 \\ 5,135 \\ 5,940 \\ 5,133 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 5,940 \\ 5,125 \\ 1,917 \\ 5,81 \\ 5,125 \\ 1,917 \\ 5,81 \\ 5,125 \\ 1,917 \\ 5,14 \\ 1,955 \\ 5,124 \\ 4,104 \\ 5,256 \\ 5,915 \\ 5,914 \\ 5,126 \\ 1,900 \\ 5,126 \\ 1,905 \\ 5,124 \\ 1,975 \\ 5,914 \\ 5,125 \\ 1,917 \\ 5,14 \\ 1,910 \\ 5,126 \\ 1,900 \\ 5,126 \\ 1,900 \\ 5,126 \\ 1,117 \\ 2,11 \\ 1,100 \\ 2,11 \\ 1,17 \\ 2,11 \\ 1,17 \\ 2,11 \\ 1,17 \\ 2,11 \\ 1,100 \\ 2,11 \\ 1,17 \\ 2,11 \\ 1,17 \\ 2,11 \\ 1,100 \\ 2,11 \\ 4,105 \\ 5,19 \\ 4,015 \\ 5,19 \\ 2,10 \\ 1,100 \\ 2,114 \\ 2,10 \\ 1,100 \\ 2,114 \\ 2,11 \\ 2,101 \\ 1,100 \\ 2,114 \\ 2,11 \\ 2,101 \\ 1,100 \\ 2,114 \\ 2,11 \\ 2,121 \\ 2,1$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 27.946 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$ \begin{array}{c} 22.9746  \mbox{4}, 8788  \mbox{4}, 8106  \mbox{5}, 9548  \mbox{4}, 8106  \mbox{5}, 9548  \mbox{6}, 8549  \mbox{6}, 9548  \mbox{6}, 9568  \mbox{6}, 9548  \mbox{6}, 9568  \mbox{6}, 9548  \mbox{6}, 9568  \mbox{6}, 9548  \mbox{6}, 9568  \mbox$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 27.96 \\ 37.746 \\ 47.88 \\ 47.88 \\ 47.88 \\ 47.86 \\ 47.88 \\ 47.86 \\ 47.88 \\ 48.06 \\ 52.66 \\ 53.64 \\ 50.84 \\ 50.84 \\ 50.84 \\ 50.86 \\ 50.84 \\ 50.84 \\ 50.86 \\ 50.84 \\ 50.84 \\ 50.86 \\ 50.84 \\ 50.84 \\ 50.86 \\ 50.85 \\ 50.95$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 3.745 & 4.785 & 4.105 & 9.745 & 4.105 & 9.441 & 4.044 & 4.056 & 8.458 & 1.538 & 1.000 & 4.671 & 1000 & 1.744 & 1.238 & 1.076 & 3.964 & 4.738 & 4.105 & 5.55 & 4.942 & 1.611 & 5.55 & 5.441 & 4.208 & 9.554 & 8.39 & 7.535 & 1.456 & 1000 & 1.744 & 1.238 & 1.747 & 3.358 & 1.475 & 1000 & 1.744 & 1.238 & 1.747 & 3.358 & 1.475 & 1000 & 1.744 & 1.238 & 1.756 & 3.304 & 131 & 2.471 & 1000 & 1.744 & 1.238 & 1.747 & 3.358 & 1.472 & 1000 & 1.000 & 1.1555 & 3.53 & 4.94 & 1.256 & 3.391 & 1.410 & 2.569 & 3.777 & 4.771 & 1000 & 1.6225 & 3.208 & 3.777 & 5.665 & 3.90 & 319 & 3.53 & 3.049 & 319 & 320 & 5.53 & 4.94 & 1.25 & 5.33 & 1.410 & 2.56 & 3.391 & 5.111 & 2.410 & 205 & 1.206 & 1.200 & 1.720 & 1000 & 1.2553 & 3.201 & 3.049 & 1.30 & 3.049 & 1.318 & 3.492 & 2.130 & 1000 & 16.704 & 4.035 & 3.494 & 4.206 & 5.394 & 4.201 & 2.091 & 1000 & 1.553 & 3.249 & 3.241 & 2.491 & 1000 & 1.2533 & 3.249 & 3.241 & 2.491 & 1000 & 1.2537 & 1.747 & 1000 & 1.6704 & 4.035 & 3.494 & 4.206 & 5.394 & 4.201 & 3.000 & 1000 & 16.704 & 4.035 & 3.494 & 7.338 & 4.247 & 2.495 & 1000 & 16.704 & 4.035 & 3.494 & 4.205 & 5.346 & 4.717 & 3.992 & 2.130 & 1000 & 16.704 & 4.035 & 8.593 & 4.247 & 2.495 & 1000 & 1.567 & 4.403 & 3.406 & 5.238 & 5.044 & 3.125 & 1000 & 1.571 & 4.512 & 4.03 & 8.533 & 4.044 & 3.125 & 1000 & 1.571 & 4.513 & 3.251 & 1.471 & 2.495 & 1000 & 3.744 & 1.1752 & 4.513 & 3.252 & 2.451 & 1000 & 3.744 & 1.1752 & 4.513 & 3.252 & 4.411 & 2.411 & 3.922 & 2.431 & 1000 & 3.744 & 1.245 & 3.248 & 1.1772 & 1.913 & 3.255 & 4.411 & 2.495 & 1000 & 3.744 & 7.738 & 8.533 & 4.544 & 7.738 & 8.534 & 4.544 & 3.266 & 0.344 & 3.255 & 2.451 & 1000 & 3.744 & 1.245 & 3.244 & 3.266 & 0.344 & 3.255 & 2.451 & 1000 & 3.744 & 1.245 & 3.244 & 3.266 & 3.744 & 3.255 & 2.451 & 1000 & 3.744 & 1.245 & 3.244 & 3.266 & 3.744 & 3.255 & 3.441 & 3.255 & 3.441 & 3.255 & 3.444 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.738 & 8.544 & 7.756 & 9.544 & 9.566 & 9.344 & 9.566 & 9.344 & 9.566 & 9.344 & 9.5$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 27.36 \\ 37.76 \\ 37.76 \\ 37.76 \\ 37.76 \\ 37.76 \\ 37.76 \\ 37.77 \\ 37.78 \\ 37.77 \\ 37.77 \\ 37.77 \\ 37.78 \\ 37.77 \\ 37.78 \\ 37.77 \\ 37.78 \\ 37.77 \\ 37.78 \\ 37.78 \\ 37.78 \\ 37.78 \\ 37.77 \\ 37.78 $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 30,366 & 5,361 & 5,361 & 5,361 & 5,561$

NATIONAL MALARIA CONTROL PROGRAMME

STATISTICS SUPPLEMENT No. 19

The size of spleen mass among children of age-groups 2-10 years in the control area in 1956 and 1957

			0 10					1956	Eur F.	- AL			I	1957		
	Locality		0.50	SI	Spleen Size	Size	0	Total	AES	100	Splo	Spleen Size	ize	- AL	Total	AES
	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20	-	2 3	4	1 5		0442	1	2	3	4	5	Teleso	0 00
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	Peddunaickenpet			13 2	20		00	34	1.6	10	9	-	:	:	17	1.5
	Seven Wells			22 1	10	20	:	32	1-3	16	L	:	:	:	23	1.3
	Amman Koil			15 1	18			35	1.6	10	12	:	:	:	22	1.5
	Muthialpet			12 1	13			26	1.6	11	9	.:	8:	:	17	13
	Harbour			16 1	17		:	33	1.5	2	13	:	:	:	20	1.6
	Kachaleeswarar			14 1	15		-	30	1.6	10	E	:	:	:	21	1.5
	Kothawal Bazaar			14 1	18	2		32	1.6	9	5	:	:	:	Ш	1.5
	- Sowcarpet		1	13 2	20	4		37	1.8	15	13	1	:	:	29	1.5
	Trevelyan Basin			15 1	15		:	30	1.5	16	12	:	:	:	28	1.4
	Edapalayam	1000		24 3	33		/ :	58	1.8	10	~	. 1	:		18	1.4
	Park Town			13 1	17	3-:		33	1.7	3	~	1	1:	:	12	1.8
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1	and the second of the	Total	2	206 2	225 14	4		.   445	9.1	120	107	3		1.000	230	1.5

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r, No. 20	5.0	5.0		Mixed		:	9	A 10000		98	:		Sbiden	:		:	L 100.51
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STATISTICS SUPPLEMENT, No. 20	04	ele 19	lex	Parasite Index	6-0	0 1.6	6-0	1.6	0 1-9	2 1.2	1-9	2.2	6.0	1:2	2.0	1.3	11115
ST	40.	of testand (	Parasite Index	No. positive	1 00	2	10	2	2	1.00	3	2	Manpa	1	2	1	19
0	d 1957		Par	Total No. of smears	0 104	128	2115	129	106	3 86	152	92	102	86	98	75	1,273
9	Parasite Survey in 1956 and 1957	10		Mixed	1	:	:			10	:		12	:		201 195	-
	ey in ]		cies	Ø	:	:	:	:	:		:	10		:		1920 8	:
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	Parasi	99	-	B.T.	:	1	:	2	1	1	:	I b	1	:	1	16 0.00	8
AMME	Malaria	1956	ex ea	Parasite Index	3.6	4.2	2.4	3-9	4-9	2-9	2.0	3.8	2-9	1.2	4.3	2.5	3.4
PROGR	Spid	-	Parasite Index	No. positive	4	2	2	3	5	3	1	4	3	1	3	1	32
NTROL			Par	Total No. of Smears	112	48	83	TT =	101	105	49	106	102	51	70	40	944
NATIONAL MALARIA CONTROL PROGRAMME	28 Park Town	51 Equival	Locality	14 Kachales	Basin Bridge	Peddunaickenpet	Seven Wells	Amman Koil	Muthialpet	Harbour	Katchaleeswarar	Kothawal Bazaar.	Sowcarpet	Trevelyan Basin	Edapalay am	Park Town	Total
IONAL		0N	uoisi	AIG	7 Ba	8 Pe	9 Se	10 A1	11 M	12 H	13 Ka	14 K	15 So	16 Tr	27 Ed	28 Pa	apple
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NATIONAL MALARIA CONTROL PROGRAMME

10 STATISTICS SUPPLEMENT No. 21

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vo.	Serial Division No. No.	Locality	co t+ -	Number of Children examined	Number found positive	Spleen Index %	Number of Children examined	Number found positive	Inst	Spleen Index %
12	Bau 7 on	Basin Bridge	:	631		10.3 80	1 605 1.5	·12	1.98	8
2	Wirt 8	Peddunaickenpet	÷	517	34	9.9	5 630	-17	3 .2.7	
3	6	Seven Wells	:	594	32	5.4 130	5615 J.P	-23	3.7	
4	20,10	Amman Koil	:	465	35	··· 7.5 /12	613 00	22		
S	bechno	Muthialpet	÷	436	26	5.9 138	3 610 1.P	- <del>1</del> 7	3 -2.8	:
9	Base 12 B	Harbour	÷	549	33	1 6.0 104	1 605 00	20		:
7	13	Kothawal Bazaar		622	30	4.8.	613 boarmac purgez		-1	
00 1	14	Kachaleeswarar		BULSO 649	A 32	tatol 6.4	No. 636 818918	T.M Hg o		d.7 Wixed
6	15	Sowcarpet surgite 't gez	61.0	<sub>6X</sub> 655	37cios	5.8 be	userio p642 c	29	2. Actes 4.5	14
10	16	Trevelyan Basin	:	614	30	4.9		28	4.8	
11.	27	Edapalayam	:	566	58	10.3	616	1021 18	2.9	1
12	28	Park Town	:	Majstis Lats	stite ZnineA in	320 sug 1321	407	12	2.9	
HO	WT NY	TVEN COMPTOTAL	OPPIC	6,738	444	6.6	7.170	100230 LL FT	C12.11.11.1	140- 5

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STATISTICS SUPPLEMENT_No. 22			em	82 31-93	1 1			0.50		Dieldrin 667		-54 0.31	1	Sprayed	wice III 1930	Islo Tr.		Dieldrin 667	CMT No. 23
EME			1	27		1	1	1	-	-	-	0	512		5	Dec	1	124	NE
SUPPL)		DDT consumed	1957	1-17-78	Lbs. 8,948	9,860	2,524	3,050	-3,382	508	3,398	2,168	2,392	1,912	2,040	2,746	2,800	2,192	2 47,920
ATISTICS		DDT c	1056	ACCTEL	Lbs.		2,893	4,208	3,398	2,400	4,096	2,446	2,942	4,468	4,531	6,194	2,400	2,234	42,120
ST	h 1956	lissed	1057	83,64	121	356	488	415.0	561	400	501	262	287	149	251	294	203	281 100	4,569 2.1
and the first	as compared with 1956	Houses Missed	1956			:	448	267	493	352	380	187	302	503	774	852 nm	157	00 324 the	5,009
	100000	Houses sprayed	FF	TT IS ICCI PI	3,284	6,588	2,020	1,081	1,478	1,366	1,220	1,927	1,895	1,124	915	1,776	186	1,371 He	27,026
	s in the ye	Houses	1056	00061	:	:	2,618	1,260	1,555	1,371	1,426	0,789	1,587	1,969	1,447	2,692	841	1,180	19,735
AMME	Spraying particulars in the year 1957		Population	28-54	51,378	36,606	22,744	31,012	26,984	23,590	26,191	15,971	12,793	15,117	15,271	29,196	18,482	16,235	Total 3,41,570
DGR/	ying I		_	25	: :	:	:			:		120	:	:	:	Mer	:	9 50	150
NATIONAL MALARIA CONTROL PROGRAMME	Spraj					tor or La												Consolidated	Total
IA CONT			Locality		ayanpet	et	idge	ickenpet	ells	Koil	pet		swarar	Kothawal Bazaar	et	in Basin	/am		A COME
MALARI	ca incingina				Sanjeevirayanpet	Korukupet	<b>Basin Bridge</b>	Peddunaickenpet	Seven Wells	Amman Koil	Muthialpet	Harbour	Kachaleeswarar	Kothawa	Sowcarpet	Trevelyan Basin	Edapalayam	Park Town	IALAR!
AAL	11 831	facie	No.		4	5	7	~	6	10	II	12	13	14	15	16	27	28	JA
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STATISTICS SUPPLEMENT No. 23 1957. Total State Distriction (22)

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	Total	entrayed	::	0-31	nps.	Too minb	:	0-29			:		2XIG COLO	. :	18.47
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0002	Nov.	1,2040	1.133	2118	3 34 8	305	5	1.6	1 5'234	0,260	100,m	87171	11 10	constrand	73-5
2,400	Oct.	4'231	2,412	1.2	A UDK	3'400	3008	4'008	5,893			133-33	00 001	TÜÜ	 114-3
202	Sep.	(14) 160	784	0-21	102	400	204.	0.9	48360	apent 1	13.		10 00	isseq.	p 1320
Tot -	Aug.	114	305	181	1 093	325	+03	303	418		::	25.83	320	M 202HOL	liw bors
1	July	(N) 12	::	0-23			8	2.0	0		::				we could
1	June	L.F. J. Q.C.		1.14	1	E.I	12 in	2.0	2,0	62	12		0	se shushe	681 195
0.11	May.	1,441	1	0.37		175.1	1002	1:360	2,018	Survey of	: :			Hone	ath di a
10,405	Mar. Apr.	12 <sup>5</sup> 112	स्तर्भ	0-19	101 20	53,200	30,900	110,15	22,744	30,000	31,326		pulsing		Waynes
110	Mar.	ē 8	•••	0-21			:	:			: :	25.4	9	:	nais 1
	Feb.		::	:		:				- 18	::				18.4
2117	Jan.	I Bazaar				- milio	vall	Kapher	- age	the state	Asrohus		lilsoo,1/	:	 11-2 V COM
-13 S. Ecrebatra	Months	Sprayed Area. Human and Mixed dwelling for 10 man	(1)	All species including Vectors	Cattle sheds for 10	A. Culicifacies	A. Stephensi All species including		Unsprayed Area : Human and Mixed	dwelling for 10 man hours	A. Culicifacies	All species including Vectors	Cattle sheds for 10 man	hours A. Culicifacies	All species including Vectors

24	ank a	No. ars	ogen	Percen	10-5302 0-7088	7-1928 8-5822 ts	0.2880	0.0518	0.0148 2.5086	0-0592	676	0.0962	7-9772	2.3552	Nil 0-2286
No.		Total No. of entrants & regulars	otive		6 0.7									18 2.3	
ENT		of & I		N	12·219 1423 1·0347 96				7 339			3 13	Arrest	3	3 39
SUPPLEMENT		IS	Percentage	1956-5		5.635 12.0218	0.2836	0.0247	0.0493 2.4537			0.1973	8.4214	2.4533	Nil 0-271.
	cls as	Regulars	Perce	1957-58	11-3236	6.7555 9.0134	3.2516	0.0629	2.0757	0.0755	0.1635	0-1132	6.8661	2.2267	Nil 0-2390
STATISTICS	Girls	685 36	otive	defe	890 40	537 699	223	5 40		98	13	6	545	177	liN 19
STA	.532	283 31	1	1956-57	10-3488 1-1172	7-6140 8-2202	0.1811	0.0147	0.0147 2.7342	0.0441	0.1551	0-1128	9.6162	3.0456	Nil 0.4089
-		Entrants	Percentage	1957-58	9-5246 1-0007	6.7865 8.1266 3.5507	0.3401	0.0358	0.0358	0.0358	0.1969	0.0616	9-5407	2.5179	Nil 0.3580
44,063	18:87	5 896		defeo	533	435 454	19	40	174	84	11	64	533	141	Nil 20
		otal No. entrants regulars	ogein	Perce		7-0027				0.1044	0.7830	0.2436	5.2722	3-0276	Nil 0.1479
	TH	T of &	o Stive	N	161 10	1701 806			46 (			28	909	348	Nil 26
No. 23			LEMENT	SUPE	1956-57	11-0383 1161 10-8601 9-0017 607 5-2557	5.0801	0-1941	0.1820	0.3504	0.1941	0.5634	1260.0	5-9679	2-2198
III		Regulars	Percentage	1957-58	8-3768 3-9363	9-9594 7-1178	0.4779	0.0028	0.0084	0.0280	0.7168	0.702	4-9879	2-9427	Nil 09666
children (	Boys	VST 1	o.	N Acfed	313	792 566	Dol Cor	3-	53 m	04	57	25	396	234	Nil 7
16620		No. p		1956-57	12-1326	14-0598 5-8692	0.1460	0.0438	0.3066	0.0146	0.5548	0.0292	5.8400	2.3506	Nil 0.3504
1-1958		Entrants	Percentage	1957-58	13-9098 8-2607	10-6209 6-7434 3-8774	0-1671	0.0057	0.0056	0.0056	0.0927	0.0084	5-9005	3-2931	Nil 0.0280
N 1957		145	otive	N N N	495 294	378 240	9	24	120	287	33	36	210	114	Nil 19
MEDICAL INSPECTION 1957-1958		235	Delects	<u>4</u> [	1 Malnutrition	oat	6Vision	8 Hearing	9Speech	11 Tuberculosis 12 Respiratory system	13 Abdominal organ	15 Nervous and psychic	system. 16 Infectious and	17 Other diseases and	18 Vaccination
	9	.oN	Serial		1 Malr 2 Dirt	3Teet 4 Nose	6Vision	8 Hearing	9 Speech 10 Circula	11 Tub 12 Rest	13 Abd	15 Ner	16 Infe	17 Othe	18 Vacc 19 Defe

MEDICAL INSPECTION

# STATISTICS SUPPLEMENT No. 24

Group	No. o	n Roll		rage ily dance	No. Examined No.Defective			Percentage		
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Entrants Regular	6,711			1383	3			2,685 3,283		and and a
	1000		1	1.205						
Total	13,950	18,089	12,511	16,397	11,511	13,544	3,900	5,968	38.87	44.063

### STATISTICS SUPPLEMENT No. 25

### MEDICAL INSPECTION

Treatment Table

Sex	No. treated at School	No. sent to Corporation Dispensaries No. referred to Government Hosnital		No. referred to Govt. Opthalmic Hospital No. referred to Tuberclosis Hospital		No. of parents met	No. of revisits paid to Schools	No. of reexamiation of children
Boys Girls	4.000	229 517 41		6 8	430 361	87 145	3,349 12,376	
Total	6,916	843	950	100	14	791	235	15,725

## MEDICAL INSPECTION

# STATISTICS SUPPLEMENT No. 26

Age in years	Average in inc	Height thes	Average in por		Quinqu Average in in	Height	Quinqu Average in po	Weight
in yours	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
6	39.10	39.91	34.69	33.43	40.17	40.18	33.76	32.43
7	41.14	43.06	35.27	34.90	42.03	42.59	35.81	34.59
8	43.29	44.82	36.91	38.55	44.15	44.05	38.35	37.54
9	45.45	46.76	41.55	42.20	46.18	46.14	42.39	44.77
10	47.41	48.87	44.96	48.65	47.95	48.27	45.64	44.43
11	48.56	50.48	48.15	50.93	49.41	50.40	49.29	48.57
12	50.32	52.15	51.12	52.61	50.84	52.40	51.57	52.55
13	52.34	53.78	54.84	57.65	52.65	54.16	54.71	58.76
14	54.06	56.66	59.44	62.44	54.57	56.64	59.41	67.25
15	56.47	58.01	64.62	73.75	56.51	58.62	64.96	74.94
16	58.26	59.65	65.96	81.38	58.26	59.65	65.96	81.38

Height and Weight Tables

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Details of cases admitted and treated at the Infectious Diseases Hospital. Tondiarpet, during 1957.

STATISTICS SUPPLEMENT No. 27

1	Total	111	13,815	1,190	15,176	13,640	1,210	2711	326
_	lnfluenza	Nil	2,631	16	2,722	2,709	·13	0.5	
aina	Contacts	23	2,273	W : 2	2,296	2,238	rate ta inci	or la	58
ICAT BI	Other Discases	5	220	60	282	214	63	22.34	Age years
rinn 'i	Whooping Cough	er i	t <sup>in</sup>	0 :4	(v8;	alij0	:20		
nutar po	Diphtheria	:	:	:	:	:	:	:	:
101 (191	bioid	:	1 00 10	:	I		1	100	
ideori cases	G.E. Chronic Entrities, T.B. Entrities and Dysentries.	18	2,264	321	2,603	2,179	414	15.1	10
Strd sno	Сһоlега	45.12	2,029	108	2,137	1,746	381	17-8	10
manit	sdunM	3	50.93	-	17	11	:	:	:
at mc	Measles	13	705	45	763	759	50.02	:	4
realed	Chicken-pox	106	2,097	144	2,347	2,314	1.2	:	33
	xoq-IIsm2	9	1,582	420	2,008	1,464	338	11-44	620
	58.62 64.96	tal on	13,75	1.62	year	58.0	: 56,47		al on
Cases a	59.65 65.96	Hospi		Issil	ng the	59.6			Hospit
Details of cases aumilied and treated at the infectious Diseases hospital, Iondiarpet, during 195	Particulars	Number remained in the Hospital on 31-12-56 (Mid-night)	Number admitted	from $1-1-57$ to Mofussil 31-12-57	Total Number treated during the year	Total discharged	Total Number died	Motality percentage	Number remained in the Hospital on 31-12-57 (Mid-night)

STATISTICS SUPPLEMENT No. 28

.

Comparative Statement of the Out-turn of Work in Dispensaries during 1956 and 1957. MEDICAL RELIEF

C New Cases Ior Operation	1957 Min	39,342 105 Allopathic 31,483 179 43,712 21 Siddha 17,633 157 Allopathic 71,762 1.200	317 112 112 112 112	43 ., 34 ., 121 Unani 267 Allopathic 93 ,,	110 Siddha 2,238 Allopathic 30 Unani 52 Siddha 349 Allopathic
New Cases	1957	9,342 1,483 3,712 1,633 1,762			On Contraction
Nev		ww475	36,072 54,995 5,813 5,813 47,174 30,275	43,377 25,170 18,313 37,874 28,234	$\begin{array}{c} 75,822\\ 1,14,735\\ 39,796\\ 52,544\\ 58,764\end{array}$
No and a second	1956	35,291 39,733 35,291 5,678	32,810 54,716 60,904 13,238	42,340 25,561 21,295 40,057 34,962	$\begin{array}{c} 75,085\\ 1,10,443\\ 39,700\\ 52,644\\ 61,021\end{array}$
ance	1957	69,054 58,829 77,319 38,626 1,40,636	71,842 94,967 11,464 99'535 75,571	86,201 54,987 42,481 78,943 53,611	1,66,551 1,89,191 68,902 92,063 1,13,820
Total Attendance	1956	64,605 65,005 64,505 11,282	67,088 86,577 1,12,855 28,786	90,443 51,576 48,050 85,031 64,382	1,67,171 1,01,609 67,604 96,224 96,224 1,06,598
səseəsean teuzases	Influ	 185 18,262	682 4,437 168 6,788 5,599	1,250  5,482	2,265  1,248 10 509
Location	151 Centers pe dudi pran.	1924 Rayapuram2/87, Soorya Narayana ChettyStreet1952 Palmyrah Kuppam Kalmandapam Road1945 Rayapuram Siddha 109, Adam Sahib StreetStreet1957 Sanjeevirayanpet22, Kappalpolu Chetty Street1913 Washermenpet85, Thiruvotriyur High Road	<ul> <li>Hope Lodge ', Gantz Road</li> <li>55, Madhavaram High Road</li> <li>Basin Bridge Road</li> <li>284, Mint Street</li> <li>1/50, St. Xavier Street</li> </ul>	Geils Street 6/7, Adam Street 47, Linghi Chetty Street n55, Thatha Muthiappan Street 11, Trevelyan Basin Road	16 17 1931 Choolai Siddha16, Alathur Subramania Achari Street17 17 1899 Balaiah NaiduRotler Street18 18 1930 Pulianthope Unani 55, Pulianthope High Road19 19 1931 Otteri Siddha1/B, Bashiam Reddy Street20 20 1946 Sembian42, Paper Mills Road
ur of Opening Dispensaries		1924 Rayapuram2/87, Soorya Naraya1952 Palmyrah Kuppam Kalmandapam Road1945 Rayapuram Siddha 109, Adam Sahib Str1957 Sanjeevirayanpet22, Kappalpolu Chet1913 Washermenpet85, Thiruvotriyur Hi	6 1929 Vyasarpadi 6 1928 Perambur 7 1957 Basin Bridge 8 1923 Mint 9 1956 Seven Wells	11 11 1955 Muthialpet 12 12 1929 Harbour 13 13 1938 Mannadi Unani 14 14 1923 MafuskhanGarden 15 15 1919 Trevelyan Basin	16 17 1931 Choolai Siddha 17 17 1899 Balaiah Naidu 18 18 1930 Pulianthope Unani 19 19 1931 Otteri Siddha 20 20 1946 Sembiarn
.oV noisi		1 119 2 219 5 5 19	6 619 8 719 9 819 9 819 9 19	111112121121121121121121121121121121121	171 171 181 191 191

STATISTICS SUPPLIMENT No. 28 (Contd.) during 1956 and 1957.	System of Treatment	india direz		". Unani	Allopathic Ayurvedic	Auopaunic "	", nani	Allopathic "			2
T No.	SINKE -	ioniM	339 278		91 A 1,010 A		<sup>29</sup> 196 222 Unani	<sub>18</sub> A	 51 139	97 97	287 9,661
PLIMEN 57.	2 8	1957	37,554	53,160 28,932	38,375 45,986	22,737	19,287 27,271 51,915	54,467 42,130 40,987	33,488 44,955 52,849	23,202 13,606 4,398	25,056
CS SUP	New Cases	1956	39,809 52,494	64,363	35,558 47,498	26,308	2,472 30,777 41,133	54,424 14,568 12,489	40,562 41,313 50,736	46,697 12,253 	24,673
TATISTI uring 195	ince	1957	70,056 92,382	58,289	77,920	37,071	41,012 58,905 1,09,607	1,05,426 88,133 98,040	69,625 85,746 90,824	84,769 41,139 7,991	43,177 1,30,333 10
S nsaries di	Total Attendance	1956	70,285 98,515	51.060	68,130	45,108	5,346 67,907 86,762	1,08,401 94,576 35,698	92,506 ,05,909 94,045	98,904 23,014 	1,733         42,800         43,177         24,673           95,157         30,64,430         34,30,333         16,36,269
in Dispe	sated bated	ufini	764 13,422			646 384	2,920 837	1	2,100 1	593 2,590	95,157 30
MEDICAL RELIEF Comparative Statement of the Out-turn of Work in Dispensaries during 1956 and 1957	of Opening Name of the Dispensaries	An men harn 11. Levelove Bren Kong	tram 00 12	909 Chintadripet 2/61, Arunachala Naicken Street 939 Pudupet Unani 1, Venkatachala Achari Street	Ho.		1956T. Nagar (North) 16, Ragavaiah Road 1924Pudupakkam 367, Pycrofts Road 1932Thiruvatteeswaran-102, Thayar Sahib Street	1955Chepauk Khana Baugh Street 1918Triplicane 25, Pycrofts Road 1956Zam Bazaar 21 Gazette Regum Street	t 10 10 10	-	1948 Adayar 13, Greenaways Road Total
EDICAL	.oN noi	2138	24	31 1	32	35/A	36	64 14 24	45 46	44	
W	S 2 2 ON 1	Serial	2222	328	278	388	333	4.0 m	33	01 64 64 61 61 61	-11 64

FOOD ANALYSIS

1956	Percentage of adul- terated samples	32'000 43	42.1	24.8	21.5	2.6	1:4	24.6	16.9	in :	28.6	32.7
101 25	Number of samples	100	3,251	432	395	39	139	187	77	4	119	5,270
1955	Percentage of adul- terated samples	33 130	1.05	51.1	20.1	15.4	7-1	47.8	1957	33-3	55.6	40.7
19	Number of samples		5,002	742	343	13	154	138	23	6 0	108	5,030
1954	Percentage of adul- terated samples		1.90	27-1	33-8	4.1	7-4	56.7	14.3	19.4	51-9	45.5
19	Number of samples bəsylsns	10.1	141	100	201	123	163	120	21	31	104	5,303
53	Percentage of adul- terated samples	10	20.2	c.oc	14.5	3.3	2.8	32.3	:	19-0	9.15	44.8
1953	analysed Number of samples	000 0	0000	910	. 331	30	143	127	31	21	124	5,735
52	Percentage of adul- terated samples	3.02	30.1	31.3	19.3	2.8	6.4	55.6	cd :	16-7	43.4	54.8
1952	analysed Number of samples	010 0	470	683	362	36	156	169	35	30	76	4,827
	Percentage of adul- terated samples	244.5	18-0	5.0	30-8	12.3	tied.	10-6	P 2.0	16.7	22.4	32.5
1957	Number of adulte- rated samples	1 582	94	36	231	6	artic ep	26	2	5	30	2,012
2.01%	analysed Number of samples	3 554	497	725	751	73	100	245	98	12	134	6,190
	Nature of samples	Milk	Butter	Ghee	Gingelly Oil	Groundnut Oil	Cocoanut Oil	Coffee Powder	Tea	Ghee substitutes	Other articles	Total

STATISTICS SUPPLEMENT No. 29

30 51 Average fine per conviction in 1956 STATISTICS SUPPLEMENT No. 52,469 250 3,030 150 30 30 30 30 1,920 33,009 3,230 6,075 4,775 Total fines imposed in 1956 1,037 391 Number of convictions in 1956 36 Average fine per coviction in 1257 30 48,210 32,430 4,190 1,710 8,255 8,255 40 40 905 Total fines imposed in 1957 30 36 2.356 ,934 86 137 115 7 Number pending disposal on 31-12-1957 Total number of adulterated samples dealt with during 105 prosecuted .... Number acquitted, withdrawn or not nonuosecution 1957 : : : : -11 : : montiw destroyed forfeited 10 pue pəziəs articles Number 10 1,337 ,012 88 28 165 20 Number of convictions 165280 3,798 56 3,034 Number of samples 20 1.251 Adulterated samples of the . . 122-12-15 previous year pending disposal on 1-1-57 no Insoquib gnibnoq Number 9 1 persecuted Number acquitted, withdrawn or not prosecution without uodiw or destryed : forfeited 11 : ÷ ł besied Number of articles 422 38 36 529 : : -2 Number of convictions 1,786 ,452 91 129 49 1030 Number of samples ... Adulterated samples among the samples analysed in 1957 1,105 906 33 102 102 17 720-12-1577 no Issoqsib gaibeng no Issoqsib ga 66 prosecuted 11 86 : : - -1 1 1 Number acquitted, with drawn or not prosecution without or destroyed Number of forfeited o 1 1 1 1 1 1 1 1 : : : pue pazias articles ... 10 590 50 129 12 808 Nature of conviction 1,582 94 36 231 305 2,012 Number of samples : Oil Coffee Powder .. 1 Ghee substitutes Other articles ... Nature of Cocoanut Oil Groundnut samples Gingelly Oil Total Butter Ghee Milk ea

FOOD ANALYSIS

fis si	Remarks	1							TER ANALY
1957	Rem	-Dimi.					Teres Can		
se in 1	Average ro	ecord-	tiei bo	verage tovel	n the fal		Verage ka level in tect	al .	Remarks
purpo		(201) ·							
hemical	Number of samples	30	1,074	10-10	1,553	73	138	176	3,251
of cl	45-76	112		28-13	114	1	10001	-	
Showing the number of samples of water tested for bacteriological of chemical purpose in 1957	45-22	1ik	:	60.26	: : 112	:	et	:	al
bacteri	44.53	ый					Saidap		Total
ed for	43-032	uje.	,				Guindy,		
er test	S	225					kam, C		
of wat	samples	er system	works	lbiam	E		ambak	-	
imples	tion of	ar Rive	water	l at Sem l at Said	n systen system	ystem	ar, Kod	rlisatio	Jan
er of sa	Description of sam	Cortalay	Kilpauk	ery well	ribution	bution s	t Aday	ider ste	in a duron
dmun	45-26	of the k	orks at	ion gall ion gall	yar dist m distri	et distri	wells a Marina	nains ur	rember
ving the	45-73	sources	head wo	infiltrat infiltrat	Kortala Sembia	Saidapo	om the shallow wells at Triplicane and Marina ivate samples	water n	ember.
Shov		From the sources of the Kortalayar River sy	From the head works at Kilpauk water wor	From the infiltration gallery well at Sembiam From the infiltration gallery well at Saidapet	From the Kortalayar distribution system From the Sembiam distribution system	From the Saidapet distribution system	From the shallow wells at Adayar, Kodambakkam, Guindy, Saidapet Triplicane and Marina Private samples	From the water mains under sterlisation	Total
	Serial No.	I	2	ω 4	5	7	8 6	10	

## WATER ANALYSIS

### STATISTICS SUPPLEMENT No. 32

Monthly average levels in the three Reservoirs and total (monthly) rainfall recorded in their catchments in 1957

		Satyamoo (Poondi I	rthi Sagar Reservoir)		varam rvoir	Red I Reser	
Remarks		Average lake level ln feet	Total rain- fal record- ed in the region (inches)	Average	Total rain- fall record- ed in the region (inches)	Average	Total rainfall recorded in the region (inches)
HZE.S	-136	25 176	13	H.	014 30.	whie.	cut h
January		137.67	Nil	61.91	Nil	45.76	Nil
February		136.51	Nil	61.89	Nil	45.76	Nil
March		135.08	Nil	60.56	Nil	45.22	Nil
April		133.62	0.16	58.25	Nil	44.53	Nil
Мау		133.28	2.50	57:41	Nil	43-08	0.12
June		131.23	2.29	56.76	2.25	41.34	2.08
July		130.40	•49	57:33	4.01	40.12	3.80
August	10:10	130.25	7.68	57.65	5.04	39-99	3.28
September	111.	129.92	2.60	56.06	4.74	40.09	4.05
October	101:0	129.71	10.10	54.89	60.1	40.22	8.68
November	Ruid an	135.74	9.18	58.90	15.11	45.28	13.58
December	101:00	135.59	Nil	60.32	0.09	45.73	0.09
Total	in the state	trant.	38.00	Ltom the	37-25		35.71

11-H

			PP	
No. 33.			Sample not Collected. .bsizelloD ton elqmaR	No. 34.
SUPPLEMENT	00)00	0-11-57	1.30 1.30 1.36.90 S.G. 29.0 29.0 27.2 7.0 3.6 3.4 2.9 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000	Trace.
	per 1,00,000)	29-10-57 20-11-57	11.30A.M. 130.50 G. G. F. B. B. B. B. B. B. B. B. B. B. B. B. B.	enish: Tr
STATISTICS	in parts p	17-9-57 2	4.45 4.45 G. G. 53.2 7.0 3.0 6.5 6.5 6.5 6.5 7.0 4.0 6.5 0.000 8.4 0.4 7.14 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	-Slightly Yellowish; G-Greenish; Tr
ST	pressed	1	Sample not Collected.	tly Yellow
	(Results expressed in parts 1957	18-7-57	. 0 40000X01 00.800	SYSlight
· · · · · ·		27-6-57	2.00 2.00 31.0 31.0 31.0 42.4 8.2 8.2 3.6 42.4 8.2 8.2 0.000 0.000 0.279 2.2 2.2 2.2 2.2 8.4 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000	vish Green
	s of the City Water Supply: (a) Sathyamoorthi Sagar in 1	16-5-57	4.00 132.30 S.G. 30.0 30.0 45.2 8.0 2.8 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	.GYellov
	the City Sathyamo	29-4-57	1.30 1.30 1.30 1.33.12 Y.G. 32.0 5.8 8.0 5.8 8.0 5.8 8.0 5.8 Nil 0.004 0.247 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.	Whitish; Y.
	ources of (a)	17-3-57	1.00 1.00 1.00 3.0 3.0 3.0 3.0 5.3 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.048 0.0194 1.5 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.001 0.194 1.5 0.001 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.194 1.5 0.001 0.001 0.194 0.0001 0.001	VSlightly
	of the So	24-1-57 23-2-57 17-3-57	1.00 1.00 28.5 28.5 28.5 28.5 28.5 10.2 10.2 10.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	cnigsh; S v
	onditions	24-1-57	1.00 1.00 1.00 1.00 2.2 2.2 2.2 2.2 2.2 0.00 0.048 0.001 0.144 1.2 17.5 0.00 0.048 0.001 0.144 1.2 17.5 0.005 0.005 0.005 0.005 0.005 0.0001 0.001 0.001 0.001 0.001 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.0001 0.002 0.002 0.002 0.002 0.0001 0.0001 0.002 0.0001 0.00000000	sugnuy ure
WATER ANALYSIS	Limnological conditions of the Sources (	Description	<ul> <li>A. Physical conditions: Time (P.M.) Depth in feet (above mean sea-level)</li></ul>	w-wnittsh; S.G. Sugnuy Greengsh; S.WSlightly Whitish; Y.GYellowish Green

	1	Sample not Collected.	-
	0-11-57	11-00A.M. 60-12 S.Y. 28-0 5-8 5-8 5-8 5-8 5-8 5-8 5-8 5-94 0-002 0-002 0-002 0-002 0-002 0-002 0-002 0-002	1.0 cc
1,000,000	17-9-57 29-10-57 20-11-57	1:00P.M. 1 55:64 W 47:6 9:8 9:8 9:8 9:8 9:8 9:8 9:8 8:4 0:194 0:194 1:3 17:0 0:001 17:0 0:001 17:0	1.0cc
in parts per 1,00,000	17-9-57	55.44 55.44 5.74 5.70 6.5 6.5 6.5 0.002 0.004 Nil 1.7 1.7 1.5 8.3 0.001 0.002 8.3 0.4 6.16	1.0cc
	1	Sample not Collected.	bussed
Water Supply in 1957 (Results expressed Sholavaram Reservoir.	18-7-57	4:30r.m. 57:27 57:27 57:27 57:27 31:0 31:0 8:0 8:0 2:8 5:2 7:3 0:064 Nil 0:002 8:4 0:001 0:002 8:4 0:002 8:4 0:002 8:4 0:002	1-0cc
voir.	27-6-57	1.15A.M. 56-81 Y.G. 31:5 31:5 31:5 7:8 7:8 7:8 7:8 7:8 7:8 7:8 7:8 7:8 7:8	1.0cc
n Reser	16-5-57	32.0 32.0 32.0 32.0 32.0 32.0 33.0 5.4 6.5 6.5 0.002 0.002 0.002 0.001 0.278 0.001 0.01 8.5 0.001 0.01 8.5 0.001 0.01 8.5 0.001 0.01 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	5 cc
ter Supp holavara	29-4-57	3:00P.M. 1 57:44 Y.G. 32:0 32:0 32:0 5:9 0:048 Nil 0:0258 0:048 Nil 0:258 0:0288 17:0 Nil 0:258 0:048 0:048 0:0288 0:0288 0:048 0:0288 0:0288 0:0288 0:0288	1.0 cc
2	17-3-57		5 cc
or the	23-2-57	4:00 m. 2:45 m. 4:15 m. 4:15 m. 4:00 m. 2:45 m. 4:15 m. 30:0 30:0 30:0 30:0 30:0 30:0 30:0 30:	5.0 cc
nditions	24-1-57 23-2-57	-000	1-0cc
Limnological Conditions of the City	on.	IS: DVE mean DVE mean       	Bacteriological conditions : Coli. present in ? cc and
End fiberuge	Description.	Physical conditions : Time Depth in feet (above n sea level) Colour Temperature (C) Chemical conditions : Total solids Total hardness Calcium hardness Calcium hardness Magnesiun hardness Chlorides Ammoniacal Nitrogen Nitric Nitrogen Nitrogen Nitric Nitrogen Ni	Bacteriologica Coli. present
B' Col	Dissol	<ul> <li>A. Physical co Time Depth in fee sea level)</li> <li>Colour Temperatur Temperatur</li> <li>B. Chemical of Total hardn Colain hardn Calcium har Magnesium Chlorides Ammoniaca Albuminoid Nitric Nitro Oxygen abs Alkalinity</li> <li>Phosphates Iron P.H.</li> <li>Silicates (Si Disolved Ox</li> </ul>	B. Coli.

No. 35.	11 11	100-2	Sample not Collected	No. 36
EMENT	0 5-8	20-11-57	11.30 11.30 28:5 28:5 30:0 7:2 5:2 5:2 5:2 5:2 8:4 0:0 0:01 0:217 0:7 0:7 0:7 0:7 0:7 0:7 0:7 0:7 0:7 0:	5 c.c.
SUPPL	rvoiur	17-9-57 29-10-57 20-11-57	2.15 p.m. 40.93 W - - - - - - - - - - - - - - - - - -	5 c.c.
STATISTICS SUPPLEMENT	fills Reso	17-9-57	11.30 2 W	1 c.c.
STA	(c) Red Hills Reservoiur	AT LO	Sample not Collected	an beisu
		18-7-57	5.15p.m. 40:00 31:0 31:0 9:0 9:0 4:4 4:4 4:6 7:3 Nil 0:064 Nil 0:064 Nil 0:192 1:5 1:5 1:5 5:6 5:6	5 c.c.
	Supply in 19 per 100,000)	27-6-57	10.30 5 Y.G. 31:5 Y.G. 31:5 Y.G. 31:5 7:3 6:0 7:3 0:002 0:005 0:002 0:002 0:005 8:4 0:005 8:4 0:005 8:4 0:005 0:005 8:4 0:005 8:4 0:005 0:005 8:4 0:005 8:4 0:005 0 0:005 0 0 0 0	5 c.c.
	e sources of the City Water (Results expressed in parts	24-1-57 23-2-57 17-3-57 29-4-57 16-5-57	10.30 10.30 31.0 39.2 9.0 3.6 5.4 6.7 0.002 0.002 0.275 1.5 1.5 1.5 1.5 1.5 0.001 0.001 0.001 0.001 0.001 0.001 0.4 5.95	10 c.c.
	of the Cit xpressed	29-4-57	.00P.M. 43.85 Y.G. 31.0 31.0 31.2 8.6 6.1 6.1 6.1 6.1 0.003 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.003 0.004 0.000 0.004 0.005 0.005 0.005 0.005 0.007 0.0003 0.00000000	5 c.c.
	sources ( Results e	17-3-57	5.15P.M.       4.30P.M.       5.30P.M.       5.00P.M.         an       45:84        43:85         W.       S.W.       S.W.       S.Y.       43:85         W.       S.W.       30:5       30:0       31:0         W.       S.W.       S.W.       S.Y.       43:85         W.       S.W.       S.W.       S.Y.       43:85         W.       S.W.       S.W.       S.Y.       31:0         W.       S.W.       S.W.       S.Y.       31:2         W.       S.W.       S.W.       S.Y.       31:2         W.       S.W.       S.W.       S.Y.       31:2         P.       45:2       34.0       31:2       5:6         Nil       O'001       Nil       O'003       0'004         Nil       O'002       Nil       O'003       0'004         Nil       O'001       Nil       Nil       Nil         Nil       O'001       Nil       O'003       0'004         Nil       O'001       Nil       Nil       O'003         Nil       O'001       Nil       O'003       O'005         Nil       O'174	1.0 c.c.
	ns of the	23-2-57	.30P.M.5 .30P.M.5 .30.5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	5 c.c.
	conditio	24-1-57	45-84 45-84 45-84 40.8 8-0 5-6 6-0 0-001 0-174 1-2 1-2 1-2 1-2 1-2 0-001 0-174 1-2 1-2 0-001 0-174 1-2 0-001 0-174 1-2 0-001 0-174 1-2 8-1	5 c.c.
WATER ANALYSIS		Description	Physical Conditions: Cime (A.M.) Depth in feet (above me sea-level) Colour femperature (°C) Chemical Conditions: Fotal solids fotal hardness Magnesium hardnes (Pol)	C. Bacteriological Conditions: B. Coli present in? c.c. and upwards
4		-12		

STATISTICS SUPPLEMENT No. 36.

Some important Physical, Chemical and Bacteriological Results of Chlorinated Raw Water in 1957

WATER ANALYSIS

C. Barter islo situal C	nohibne	11		-	(Result	s expre	sults expressed in parts	n parts pe	per 100,000)	(000							1
Discolved Oxygon	səlqn		sp	ssau	0.038		P	nogen	nogen	۸۰) psot-	Alkalinity	ity to		1.1.	0.0		%000
Months 1957	No. of San	Colour	Total solio	Total hard	Chlorides	Ammoniao Nitrogen	ionimudlA Nitrogen	iiN suottiN	Nitric Niti	o nəzyxO vbiT) bəd	P.T.H. M.O.	M.O.	PO.	Fe	Ча	<sup>8</sup> O!S	B. Coli-6
January	23	S.W	31-8	8.4	5.8	0.003	0-058	<0.001	IIN	0.161	0.2	13.8	100-0	0.007	8-2	0.4	35
February	23	M	34.6	9-5	6.1	0.002	0-054	IiN	Nil	0.176	0.3	13-7	0.001	0.005	1.8	0.4	48
March	22	C	40.8	0.6	6.1	0.005	0.050	IIN	liN	0-201	0-7	14.5	0.001	liN	8.2	0.4	27
April of perquese	22	M	39-5	1.6	6.5	0.003	0.043	100-0	liN	0-213	9.0	14·8	100.0	M.Tr	8.2	5.0	41
May when when	25	U	38-7	8.8	8.9	0-002	0.050	lin	IIN	0-235	8.0	15.5	100.0	liN	8.4	0.5	88
June State and Com	24	C	39-9	1.6	1.1	0.003	0-058	Nil	Nil	0.219	6.0	16.0	0.001	M.Tr	8.3	0.4	61
July	25	C	39-4	9.4	7-2	0-002	090-0	liN	lin	0-212	ĿI	16.5	100.0	I	8.3	0.5	72
August	20	U	.37.3	0.6	7.3	900.0	0.048	liN	F	0-209	1.1	16.1	0.001	ł	8.3	0.4	55
September	22	U	42-9	8.8	7-3	0.003	0.054	liN	liN	0-233	. 0.8	16.5	100-0	Tr	8.4	0.5	73
October	20	U	42.3	8.5	0.2	0.002	0.054	liN	liN	0.210	2.0	16-0	100-0	IIN	8.4	0.5	60
November	24	c	32.2	7.5	5.4	0.002	0.046	liN	liN	0.186	9.0-	12.0	100.0	Nil	8.4	0.5	62
December	24	COM OF	31.7	8.5	4.9	0.002	0-044	Nil	Nil	0.183	1.4	12.7	100-0	Tr	8.3	0.4	17
WATER ANALYSIS	1000					H.T.	P.T.HPhenolphthalein.	thalcin.	M.O	M.OMethyl Orange.	range.	TATE	STICS	19 HUR	TAN	W TV	14

STATISTICS SUPPLEMENT No. 37

Some important Physical, Chemical and Bacteriological Results of Chlorinated Filtrates from Beds in 1957. (Results expressed in parts per 1,00,000) Movember

WATER ANALYSIS

% <b>33</b> 0	B. Coli—6 SiO <sub>3</sub> Ph	M.Tr 7.7 0.4 0	01 7.7 0.5 0	05 7.9 0.5 0	M.Tr 7.9 0.4 0	1 8.1 0.6 0	M.Tr 8.2 0.4 0	- 8.1 0.5 0	- 8.2 0.4 0	r 8.1 0.5 0	Nil 8.2 0.5 0	r 7.9 0.5 0	2 01.05
Di- 196	Fe Po,	0.001 M.	0.001 0.001	0.001 0.005	0.001 M.	0.001 0.01	0.001 M.	0.001 -	0.001 -	0.001 Tr	0.001 N	0.001 Tr	0.001 T-
ity to	M.O.	13.4 0	13.8 0	14.1 0	14.7 0	15.4 0	16.2 0	16.8 0	16.6 0	16.1 0	16.0 0	11.9 0	123 0
Alkalinity	P.T.H.	-0.3	-0.6	-0.4	-0.2	0.3	0.4	0.4	0.3	0.2	0.3	-0.2	00
) sotbed	oxygenady (ybiT)	0.132	0.161	0.162	0.158	0.201	0.205	0.178	0.171	0.198	0.187	0.157	0 167
nogen	Nitric Nit	IIN	liN	liN	IIN	liN	liN	Nil		Tr	liN	Tr	Τ.
togen	NitrousNi	0.001	0.001	0.001	0.001	Nil	0.001	0.001	100.0	Tr	lin	0.001	0.001
	Albumino Nitrogen	0.054	0.056	0.050	0.040	0.050	0.045	0.058	0.056	0.058	0.051	0.042	0.044
	Ammonia Nitrogen	0.014	0.015	0.016	0.017	0.011	0.019	0.018	0.014	0.021	0.025	0.008	0.009
. +	Chlorides	6.0	6.3	6.0	6.4	6.7	7.1	7.4	7.2	7.2	7.0	5.2	4.9
ssəup	Total hard	8.5	9.1	9.5	9.0	8.8	9.3	9.5	0.6	8.7	8.4	7.6	8.1
12.0	Colour	C	C	c	U	C	U	C	C	C	U	U	0
səldu	No. of san	23	23	22	22	25	24	7 25	20	22	20	25	24
41	S 30	(‡		-12	:	-10			in pl		:	· 20m0.	
Schtemper	vnsnet Months 1957 2013	January	February	March ·	April	May	June	July	August	September	October	November	December

STATISTICS SUPPLEMENT No. 38

WATER ANALYSIS

Some important Physical, Chemical and Bactiriological Results of the Test Tap Water at K.P.S. in 1957. (Results expressed in parts per 100,000)

2 0.5 0	B.Coli. 602.c.c.%	11-00 4-00 A.M. P.M.	1 10 2	0.4 55	0.4 65 20	0-4 55 0	0.4 81 42	0.5 96 92	0.4 67 87	0.5 32 36	0.5 45 16	0.5 50 26	0-5 75 45	0.5 56 48	0.5 58 64
NIL 8	8 1 1	1	O!S Hd	7.6 0.	-0 2-2	0 2.1	7-8 0.	.0 6.4	.0 0.8	.0 0.8	8-0 0.8	8-0 0.	.0 0.8	7.6 0	·0 L·L
0.001	0.001	0.00	Pe	M.Tr.	Tr.	0-005 7	0.010	IIN	3 500-0	-		Tr. 8	lin 8	Tr.	Tr.
0.01	T&T	, - I	HOd	0-001 N	100.0	0.001	0.001	0.001	0.001	100.0	100.0	0.001	0.001	0.001	0.001
0.3	nity to	M.O.	0.4	13-1	13-9	13-7	14-4	15.2	15-4	16-2	15-9	15-7	15.5	12.0	12.2
0.181	Alkalinity	P.T.H.	120%	-0.4	-0.6	-0.5	-0.4	-0.5	0.1	-0.4	-0.2	0.1	-0.3	-0.4	-0.4
HIM	) otpeq	genabs (YbiT)	бхо	0.117	0.158	0.154	0.182	0-201	0-197	0.174	0-167	0.140	0.169	0.145	0.138
MI	uəzo	nit oi:	nin	K	IIN	liN	lin	lin	lin	Nil	1	lin	lin	lin	1!N
Y021	uə	suo: SoltiN	nin	<0.001	Nil	0.001	100-0	IIN	0.001	0.001	0.001	0.001	0.001	liN	IIN
122 1 1		pionimu gortiN	IdIA	0.048	0.048	0-048	0-040	0.050	0-056	0.050	0.052	0.052	00.48	0.040	0.047
0 - 0.0	uə I	sosinon gottiV	ımA	0.004	0-004	0.003	0.012	0.005	0.005	0-013	0.015	0-017	0.010	0.004	0.005
1 1	1	sabiro	СРІЧЭ	6.2	6.3	6.2	6.5	6.9	7-3	7.5	7-4	7.4	7-3	5.4	5.1
2	ssət	ibrad Ia	stoT	-	9.2	0.6	1.6	8-5	9-3	8.6	9.1	8.8	8.3	-	6.0
0 0		sbilos Is	stoT	29-9	35.5	38-9	36-0	35-3	37-3	38-8	37-3	42-0	42.5	29-0	28.0
5 100	5	JING	Colo	0	C	C	U	C	0,	υ	υ	U	0	0	c
	səlq	lmss lo	.oN	40	43	42	43	49	47	47	39	41	40	48	46
	Sebrenipet -	Months 1957		January	February	March	April	May	June	July	August	September	October	November	December

4 1038	abor to	1 1242			15-11	¢L'81	1'1		.55	4 150	o [B]	toT			
0.140 J		1132		10	16-87 00-91	5,32	·1	118 0.0				of C		T	
1. 1. 1		nP.	50	75	75	00	75	75	-00	. 25	50	75	25	75	6-31
l cost of	Tota	Rs.	11,235	9,989	10,572	10,180	9,986	8,367	660'6	9,633	9,494	10,589	9,409	7,857	1,16,416-3
of Chlorine er Ib,		Rs. nP.	0.25	op o.	o do.	do.	do.	op o	.ob	do.	do.	do.	do.	do.	Stewer 14
vater in P.P.M. Pplied to filtered f Chlorine Provinting f Chloring- f Chloring- F.W. F.W. I lbs. of rine used month. P.M. et lb. et lb.	Chlo Tota	1.4 0.00	44,942	39,959	42,291	40,720	39,947	33,471	36,396	38,533	37,978	42,359	37,637	31,431	Civitato C
f Chloring- t chloring- F.W.	l pəsn	0.00	22,305	20,550	20,620	21,476	21,929	19,608	21,990	24,519	24,452	28,235	25,040	28,633	(000) II 800 D
f Chlorine echlorina- R.W.	to noi for pro	TIME	20,637	19,409	21,671	19,244	18,018	13,863	14,406	14,014	13,526	14,124	12,597	2,798	the part 100
Dose of Chlorine applied to filtered water in P.P.M.	Mean	17.8.1	-3.02	-2-80	-2.48	2.50	2.33	.2.20	2.28	2.52	2:54	2:96	2.76	3.05	in her.
of Chl d to fi r in P.	Min.	1	2.60	2:50	2:30	2.13	2.00	2.04	96-Ê	2:30	2.11	2.50	6.36	2:90	u-Ko
Dose applie wate	Max0	10-173	3.42	3.10	2.85	2.80	2.65	2.60	2.56	2.50	3.00	-3.28	3.50	3.27	u 2Asro
orine raw P.M.	Min. Mean	Live to	2.47	05.60	02:59	2.27	1-93	1.49	1.50	1.47	1.41	1.51	1.38	breatt	Crear
f water Dose of Chlorine I million applied to raw a tr day.	Min.	10	1.87	06-I	2.06	1.65	1.10	1.20	1-28	1-17	16.0	1.20	0.88	0.04	A Disn
Dose appl wate	Max.		3.00	2.84	2.80	2.79	2.80	1-88	1.60	09-E	1.63	1.74	1.68	1-55	
water illion day.	Min. Mean Max.	6.0.0	26.00	26.08	26.82	28.14	29.82	30.07	31.14	31.35	30-47	30.59	30-35	30-34	PARIOI
Quantity of water filtered in million gallons per day.	Min.	0.00	24.16	24-89	25.49	24.66	28.32	29-32	29-99	30.32 31.35	29-32	28-32	29.32	28.07	Ant River
Quarit filtere gallo	Max.	- iv	27.66 24.16 26.00	27-07	27-82	30.82	32.82	31.32	32.32	32.32	31-98	33-32		31.60	cula ha
Months 1957	International (1)		January	February	March	April	May	June	July	August	September	October	November 31.48	December 31'60 28.07 30'34	

H-13

	B. Coli-60.c.c.	7.623	7-6 3	7.6 3	7-7 28	7-7 52	7-8 52	7-8 45	7-8 23	7-946	7-936	7-628	7.635
				30									
()	Iron	\$ 0.005	Tr.	100.0	0.0	0.0	\$00.0	:	:	3 0.002	5 Tr.	6 Tr.	200-01
visions	Oxygen absorbed (Tidy)	0-118	0.145	0.147	0-198 0-008	0.205 0.005	0.188	0.173	0.158	0.173	0.176	0.146	70107
giDiv	Nitric Nierogen	Nil	Nil	IIN	Nil	Nil	Nil	Nil	:	Tr.	Nil	Tr.	NU
Low Pressure Areas (Out Lying Divisions)	Nitrous Nitrogen	100.0>	100.0	100.0	100.0	100.0	100.0	100-0	100.0	0.001	0.001	Tr.	0.001
eas (01	Albuminoid Nitrogen	0.005 0.005	0.005 0.063	6-3 0-005 0-040	0.014 0.038	6-9 0-004 0-034	090-0	0.042	:	0-016 0-050	0.008 0.042	0.041	0.040
re Ar	Ammoniacal Nitrogen		0.005	0.005	0.014	0.004	0.003	0.003	:	0.016	0.008	0.003	0.004
essu	Chlorides	1.9	6.3		6.7		7.2	+ 7-4	7.3	7-5	t 7.2	5 5.7	5.5
Pr	Total hardness	1 8.7	9.4	1.6	9.1	6.8	9.3	9.4	9-3	6.8	8.4	3 7.6	0.1
Low	Total solides	30.4	31-9	40.5	36.2	33-9	37-9	39-9	37-0	42.8	43-7	32.3	2.00
	IləmZ	110 Nil	62 Nil	lin 811	120 Nil	132Nil	IIN [13	144 Nil	22 Nil	34 Nil	lin 68	IIN [23	CIN NO
20.0	solution of somples									-			-
2. 2	B. Coli-60.c.c.%	7.622	7.6 0	7.6 6	7-775	7-765	7-972	7-861	09 L-L	7-943	7-854	7-744	7.560
	Hđ	1			-			÷	i.	15 7	5		12
(8	Iron	Tr.	0.005	0.007	0-01	0-218 M.Tr.	0-204 M.Tr.	1	+	0.005	Tr.	0.01	1
Works)	Oxygenabsorbed (Tidy)	0.120	0-150	0.164	0.198	0-218	0-204	0.173	0.160	0.203	0.182	0-138	0000
Icad	Nitric Nitrogen	IIN IIN	lini	lini	IIN	IINI	Tr. Nil	[Ni]	1	0.001 Tr.	0-001 Tr.	IIN IIN	t
Vear F	Nitrous Nitrogen		0-001 Nil	100-00 Nil	0-001 Nil	100-0	Tr.	0-001 Nil	1		00-0	IIN	NIN
eas (1	Albuminoid Nitrogen	0-056	0.056	0.033	0.019	0.050	0.053	:	0.030	00.36	0:050	0.023	0.040
High Pressure Areas (Near Head	Ammoniacal Nitrogen	8-3 6-1 0-004 0-056	9-4 6-2 0-004 0-056	8-7 6-3 0-004 0-033	8.66.6 0.003 0.019	8-8 6-4 0-008 0-050	8-9 7-1 0-005 0-053	:	9-1 7-3 0-005 0-030	8-9 7-7 0-009 00.36	39.0 8.3 7.3 0.012 0.050	7-3 5-5 0-002 0.023	010-0 100-0
essi	Chlorides	6.1	6.2	6.3	9.9	6.4	1.7	7.3	7.3	L-L	7.3	5.2	0.0 5.2
h Pr	Total hardness				8.6			9.8		8.9	8.3	7.3	0.0
High	Total solids	29.2	27-6	35-4	36.6	38.8	39-2	40.9	49-4	48.2	39.0	34.3	0.00
	IlomZ	lin 6	8 Nil	16 Nil	16 Nil	I17 Nil	II Nii	21 Nil	liN01	IIN	22 Nil	lin	1111
	No. of samples	6	00	16	16	17	II	21	10	14	22	18	
	Months 1957	January	February	March	April	May	June	July	August	September 14 Nil	October	November 18 Nil	Till and and a

WATER ANALYSIS

STATISTICS SUPPLEMENT No. 41

Kortalayar River System-Booster AreaResults of Chemical and Bacteriological Examination. (Results expressed in parts per 100,000)		
its of Che	Examination.	
its of Che	d Bacteriological	(00)
Kortalayar River System-Boos (Res	ter AreaResults of Chemical and	in parts ]
	Kortalayar River System-Boost	(Res

Constant and a series of the s	-	sə		1 Para	ssa	Lines .	1	1		1				
Months 1957	To make and	Iqmes 10 .0N	Smell	sbilos IstoT	Total hardne	Chlorides	Ammoniacal Nitrogen	Albuminoid Nitrogen	Nitrous Vitrogen	Nitric Nitrogen	Oxygen absorbed (Tidy)	Iron	ча	B. Coli —60 c.c. %
	1				111111		in state	00180 C			and the second	and and		
January	:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	liN	31.2	8-7	6.3	600.0	0.053	< 0.001	liN	0.144	0.01	9.2	0,
February	:	8	"	33-2	9.5	6.3	0.003	990-0	0.001		0.140	10.0	9.2	0
March	:	4	2	38-0	5-6	6.3	0.011	090-0	0.001	:	0.180	0.012	L·L	0
April	:	7	:	29.2	9.2	9.9	0.003	0-048	100.0	8	0.201	0.01	L·L	0
May	:	10	:	36.7	6-8	7.0	0.004	0.072	0.001	a .	0-203	\$00.0	L·L	50
June	:	4	2	44.0	9.6	7.4	0.003	0.033	Tr.	"	0.168	M.Tr.	7.8	75
July	:	24	2	42.3	9-5	7.4	0.010	0-058	100.0	2	0-167	1	7-8	25
August	:	9	"	44.4	9.6	7.3	\$00.0	0.056	liN		0.163	1	7-8	17
September	:	20	:	45.0	8.8	9.1	900-0	0-036	0.001	*	0.190	900.0	7-8	25
October	:	18	8	38.8	9.8	1.7	0,004	0.044	Tr.	8	0.183	Tr.	7-8	44
November	:	••	"	28.8	7.0	5.3	0.003	0.042	Nil	8	0-145	Tr.	9-L	37
December	:	00	:	38-4	notrai	5.3	0.004	0.042	IIN	at pour	0.130	Tr.	9.2	25

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WATER ANALYSIS

Results of Chemical and Bacteriological Examination of the Infiltration-Gallery Wells at Sembiam and Saidapet in 1957. Results expressed in parts per 1,00,000) 2

STATISTICS SUPPLEMENT No. 42

1	B. Coli-present in 7 cc. & upds.	-60		-60 c.c.	0 6 1.0c.c.	00 €.C.	09-			09-	6 9 5	09-	- 00 - 00
-	Silicates	0.8	0-6	9-0	0 6	9.0	9.0	0-8		0.8	9.0	0.6	0.6
	ЧД	0.4	7.0	10	72	7.2	6 9	7.2	-	72	7.2	7 2	7.2
10	Itou	M. Tr. 7.0	0.01 7.0	M. Tr.7	0-01 M. Tr. 7	0 0057-2	0.03 M. Tr-69	10.0		0.047	IIN	Tr	10.0
	Phosphates	0-01	0.012	0 02 M	10-0	0-08	0-03	1		0.02	0.04	0.03	0-02
18	Methyl Orange Alkalinity	3.6	8.4	8 16-9	6 5	6.8	8.3	6.8	15012	0 18*5	21-8	6.11	13.5
H	Alkalinity	-2-0 13-6	-3-1 14.8	281	-1-9 16	2.6 16.8	-1.9 18.3	0-2 18-9	ected	2 01	162	141	11.0-
SAIDAPET	(Tidy)			-		-			colic	1-2	4	T	1000
QIN	Oxygen absorbed	0-045	0 032	0.042	860.0	0.068	990.0	0-048	not	1	0.024	0:027	0 043
S/	Nitrie N.	Pr	Pr	Pr	Nil	IIN	Pr	Ě.	Samples not collected	1	F	t	Pr
1	Nitrous N.	<0.001	0 001	. 100 0	100.0	IIN	lin	IN	San	IIN	IIN	IIN	0-001
THE L	upgoniN	002	900	0-003	004	002	0-005	003	oBen	+002	0 002	003	-002
	AlbumimudIA	15-00-003 0 002	11 00-002 0-006		21.0 15.00.002 0.004	19.0 15-00.0030-002		19.0 14.00.0020.003	0	25.0 14 00.004 0.002		7-00 002 0 003	8-00-0030-002
	Ammoniacal	0-00	0.00	IIN O	0.00	000	IIN 0	000	1	0.00	IIN 0	000	0.00
-	Chlorides	15.0	U L	17.0	15.(	15.(	20.0 14-0	13 ISL	oliqu	14	19.0 14.0		
	Total hardness	18-0	17.0	0.20.0			5 20.0	8 19.0	inoit		6 19.0	40.8 17.0	0 17.0
000	Total solids	0 56.0	0.46.0	0.66.0	60 59.4	0 50.8	0 55.6	5	1000	60 62.8	63	40.8	44.0
	B. Coll-present in 7 cc. & upds.			60 c.e)	10	60 c.c.	09-0	21	niaci	1	600 - 60	g	3
0.1.1.23	Silicates	00.0	10.6	9.0.8	9.06	00.8	80.6	00.6	168	00.0	00.0	9.0.6	
	Ча	157.	067.	046.	106.	207.	20 6.	20 7.		177.	067.	000	
0 0	Iton	8 0.0	60.0	60.0	0.02 0.106.90.6	0.01 0.20 7.0 0.8	0.02 0.20 6.8 0.6	0.01 0.20 7		050.	0.03 0.06 7.0 0.	0.02 0.06 6.9 0.6	
2 1 1 2 B	Phosphate Alkalinity	20.008 0.05 7.0 0.6	3 0.006 0.06 7.1 0.6	.70.0060.046.90	.6 0.0	6 0.0	5 0.0	3 0.0	ardr	.70.0050.177.00.6		.6 0.0	-
	Methyl Orange		10.	10	12	Ξ	13,	12		13	12.7	80	-
38.	Phenolphthalein Alkalinity	-0.2	-2.5	-3.2	-2.5	32.5	-2.2	1	olids	-2.8	-3.3	-2.5	m
SEMBIAM	(Tidy) Oxygen absorbed	0.016	Nil 0.025	610.0	Nil 0.068	0.072	0.048	0.069	lected	1	0.123	0.027	lected
EMB	Nitrie N.	IIN	Ē	F	FZ	IIN	IIN	ŽĚ	t col	1	ž	È	t col
SI	N snohiN	Nii	S IN S	100'0	UN		IN	0.20	Samples not collected	IIN	IIN	Nii	Samples not collected
-	Albuminoid Nitrogen	0.003	0.072	0.003 0.001	0.010	0.007 0.001	0.004	0.002	Samp	0.002	0.002	0.002	Samp
	Ammoniacal nagoniN	0.004	īz	0.002	0.004	0.006	0.011	0.010		0.004	IN	0.002	181
	Chlorides	14.2	4.0	13.0	18.0	23.0	0.73	0.02	2011	23.5	21.0	14.0	No.
1	Total hardness	14.2	16.0	61.2 16.0 13.0	65.2 20.0 18.0	22.0 23.0	74.4 24.0 27.0	68.4 21.0 20.0	010	80.4 24.5 23.5	60.2 19.0 21	56.4 18.0 14.0	AVE
13	Total solids	46.2	53.2	51.2	55.2	80.4	14.4	58.4	ALE.	\$0.4	50.2	56.4	N. Contraction
Orato.	Months 1957	January 4	February 63.2 16.0 14.0	March 6	April 6	May 8	June 7	July 6	August	Sep. 8	October 6	Nov. 5	Dec.

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1 0.0	2.12	0.04 (.81 3322 -422 (10,12	Tr. JT	200.0	53	3070	48.0		0	Description	1			
No. 43	TT I	B. Coli-60 cc%	100	83	50	100	100	100	100	.WoW.	99	83	85	34
and the second sec		पत	7.6	7.5	7.6	7.4	7.6	.7.6	7.8	-190-	1.7	7.8	7.6	T.6_1
CEME		Iron	0.005	M. Tr. 7.5	0.015	M. Tr. 7.4	-	M. Tr. 7.6	01	Schi <sup>1</sup>	- Lines	0.01	0.010	0.01 M
SUPPLEMENT nination		Oxygen obsor- bed (Tidy.)	0.050	0.045	0.083	0.085	0.087	960.0	0.083	Antes	18/12/	0.032	0.044	0.054
TICS al Exar		Nitric Nitrogen	lin	Tr.	Pr.	liN	lin	Pr.	Pr.	in hu	KODY	Tr.	Tr.ut	RTro
Results of Chemical and Bacteriological Examination n parts per 100,000)	Saidapet	Nitrous Nitrogen	0.001	0.001	liN	liN	lin	IIN	IIN	sted	Nil	Nil	HN.	0.001
Bacter	Saio	Albuminoid Nitrogen	0.003	0.001	0.002	0.003	0.002	0.004	0.002	Colle cted	0.001	0.002	0.002	0.002
land	7.0	Ammoniacal Nitrogen	0.002	0.002	0.001	0.002	0.002	0.004	0.002	not	Nil	0.002	Nil	16.0 10.5 0.012
Chemica 100,000)		Chlorides	0 14.3	4 13.8	0 17.6	0 17.0	19.5 15.5	20.0 14.5	0 17.5	Sam ples	0 16.5	17.0	0.8 0	0 10.5
of Ch per 10	T.T	Total solids	654.0 18.0 14.3	1.2 18.4	657.6 20.0 17.6	658.0 21.0 17.0 0.002			.8 21.0	Sar	5 22.0	.4 20.0	.6 18.0	.2 16.0
esults parts	C.T	No. of Samples	C1 114 C - 1	01244.2		83 658	0 654.2	0 658.0	75 670.8	1	88 664.5	12 668.4	0 741.6	0 632.2
1.0/	11	Ph B. Coli-60 cc%	7.0 100	7.1 100	6.8 100	7.1 8	7.6 100	7.4	7.6 7	1	7.5 8	7.3 1	7.4 100	7.7 100
System-	8 0	100 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	0.03	0.01	0.05	0.09	0.03	0.02	0.02	041	0.02	0.051	0.035	0.04
stribution (Results ex	8.0	Oxygen absorbed (Tidy)	0.016	0.029	0.043	160.0	180.0	0.047	0.050	Sebi-	L	0.062	0.032	0.042
YSIS Infiltration Gallery Systems-Distribution (Results ex		Nitric Nitrogen	[0.001 M. Tr. 0.016	IIN	Nil	liN	liN	IIN	Nil	cted	1.	These	IIN	liN
ems-	0.8 0.	Nitrous Nitrogen	[0.00]	lin	IIN	lin	100.	100.	100.	Collected	100.	Tr.	ETr.	liN
y Syst	Sembiam	Albuminoid Nitrogen	0.033	0.012	0.003	0.003	8 80.0 21.2 20.5 0.003 0.003 0.001	20.0 0.002 0.002 0.001	23.5 0.002 0.002 0.001	not	27.0 0.003 0.002 0.001	Tr.	Date: No.	0.002
Galler	Sem	Ammoniacal Nitrogen	14.6 0.003 0.033	0.002	0.002	0.002	0.003	0.002	0.002	ples	0.003	600.0	100.0	0.002
ttion 6	er.	Chlorides		18.0	16.3	18.0	20.5			Sam ples		28.2	12.2	14.0
YSIS	3.0	Total hardness	644.4 20.3	8 58.4 20.0 18.0 0.002 0.012	12 56.8 17.5 16.3 0.002 0.003	657.2 18.0 18.0 0.002 0.003	0 21.2	8 67.6 23.2	870.4 22.5	NTR.	886.8 25.2	8 62.4 27.7 28.2 0.009	843.6 16.0 12.2 0.001 0.002	848.0 17.5 14.0 0.002 0.002
ANALYSIS Infiltr	12	No. of samples Total solids	644.	8 58	12,56	657	880	867.	870	dat .		8 62		
WATER A	~ ~ ~	Months 1957	January	February	rch	ii as	V 2	e		August	September	October	November	December
		VireiMe VireiMe Virei	Jan		March	Apr	May	June	July	2	Sep	Oct	Nor	and the second s
Jee ?	[—14	H.T.9 H.T.9 M. O.M.	vinte. 1	VID' BI	vanue/	<b>Copering April</b>	H InoT	E latoT		hole	10			WATE

	1	Dec.	0	0'861	48 0	70.0	0.200	0.002	0.005	1.	0.075	-4.5	37.5	C.01	0.04	7.2	0.8	1 c.c.
4	~ ~ ~		0	174.4	50.0	54.0	960.0	0.004	0.005	100	0.102	-3.8	35.2	0.01	0.04	7.2	0.6	j.
No		Nov.	20							1.1				1 0	1	7.0	0.6	c.c. 1
ENT	91 <sup>0</sup> 119	Oct.	C	246.0	48.0	74.0	8 0.128	5 0.002	0.001	·H	0.102	-4.7	4 35.0	1 0.04	3 0.06		1	and the second second
LEM	areas in 1957.	Sept.	C	191.2	48.0	65.0	80.0	0.005	0.005	3	phi	- 5.1	30.4	0.01	0.03	7.2	0.6	1 c.c.1
UPP		Aug.	83	00	84	82 9	69-03		pəŋ	ollec	o ton s	əlqm	es					181101
ICS	to out-lying area (KODAMBAKKAM).	ylut	U	243.2	61.0	87.0	0.36	0.005	0.005	Pr.	0.104	-6.5	40.2	10.0	0.4	7.1	0.6	I c.c.
STATISTICS SUPPLEMENT No. 44	ly to k	June	S.Y.	245.2	58.0	80.0	0.080	0.004	0.005	NII.	0.108	-5.0	37.5	0.003	0.15	7.2	0.6	1 c.c.
	Results of Chemical and Bacteriological Examination of the Shaflow wells used as Sources of water supply to out-lying (Results Expressed in Parts per 10,000) RICHARD'S PARK WELL (SAIDAPET) UNITED INDIA COLONY WELL (KODAMBAKK	May	U	212.0	56.0	81.0	0.010	0.004	100.0	H	860.0	-5.0	23.1	800.0	0.2	dir pi	0.6	5 c.c.
10'2 0'015 0'005	f water colony	Apr,	C 005	988.0	72.0	104.0	0.080	0.004	0.001	Pr.	0.155	0.6 -	42.9	0.008	0.2	6.6	9.0	-60 c.c.
0.012	s of v	Mar.	S.Y.	262.0	70.0	112.0	0.144	0.048	0.005	Pr. ok	0.166	-7.0	42.0	0:016	0.4	7.0	0.8	1. c.c.
	d as Sources o er 10,000) UNITED INDIA	Feb. M	C	258.8	62.0	106.0	0.144 (	0.008	100.0	T.I.I.		- 6.5	42.5	0.010	0.2	7.2	8.0	c.c. 1.
16.0	r 10,0	- 20	S.Y.	239.6 2	65.0 6	103. 1	0.176 0	0.005 0	0.001 0	Pr.	0.256 0.160	- 5.8 -	40.5	0.01 0	0.4	7.2	0.6	c.c. 1
635.2	used ts pe U	Jan.	is.			63.0 1	-		-	Zu .			42.5	0.03	95	7.3	0.6	-
1001	wells 1 Par	Dec	C	8 255.2	65.0	00	Nil,	4 Nil.	00'0	Din.	180.0	5 -3.5			0.005		1.5	-6.060 c.c.
T.T 4	How sed in	Nov.	U	230.8	60.0	59.0	Nil.	0.064	Nil.	IPC.	0:057	-3.5	43.2	0.02	Tr.	7.2	0.6	10
NO.0	e Shal xpres	Oct.	U	210.4	47.0	64.0	0.005	0.003	0.005	Left.	0.074	-1.2	37.5	0 03	Nil.	8.0	0.8	-60 2.0 c.c.
0.042	ation of the Shallow wells used as Sour (Results Expressed in Parts per 10,000) UNITED IN	Sept.	CO	218.0	53.0	64.0	Nil.	0.005	Nil.	0.016	Ozka	-1.2	40.1	0.02	0.01	8.0	0.6	-60 c.e.
IIM	ation (Resu	Aug.	IIV	1014	MIL	N.H.	Tim.	, uni	pəı	oollee	o ou sa	Idm	S	-80	31		(RDS)	Antei
IIM	amin	ylad	0	230.0	55.0	66.0	0.004	0.005	0.001	Int.	0.105	0.4	39.2	10.0	4. Tr.	8.0	0.6	C.C.
	Chemical and Bacteriological Example relations of the Chemical Example RICHARD'S PARK WELL (SAIDAPET)	June J	c	198.4	45.0	60.0	0.022	0.006	0.001	Int.	0.058 0.128 0.113 0.081 0.105	6.1-	36.2	0.04	0.005 M. Tr. 0.015 M. Tr. M. Tr.	8.0	0.6	0 c.c.
2 0.00	logic (SAID	ay Jr	- 0	193.6	94.0	55.0	0.010	0.005	100.0	Tr. 0	HIS	-2.0	37.2	.008	N 510.	6.L	9.0	1 c.c. 10 c.c.
0.00	terio /ELL	Apr. May	00	176.0 19	44.0	55.0	0.006 0.	0.005 0	0.005 0	Nil.	128 0	-0.2 -	37.5 37.2	0.01 0.008	T.	6.7	0.8	1 c.c. 1
14.0	d Bac RK W	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE	0		50.8 4	54.0 5				100	58 0.	- 1.0 -	36.7	0.016	05 M.	6.1.	0.8	and the second s
171	al an 's PA	Mar.	S.Y.	2 198.0			2 0.016	0.004	\$ 0.005	Tht.						8.0	9.0	Şec. 10 c.c.
1948.	emica	Feb	U	176.2	51.0	51.0	0.002	Ë	0.005	Р.	0.080 0.109	3 -2.5	\$ 57.4	1000	M. T		1	
WATER ANALYSIS 480 1.12 1810 6.005 01005	of Ch	Jan.	0	189.2	55.0	58.0	0.004	0.003	0.005	Pr.	to and the	-3.3	36 4	10.0	M. Tr. M. Tr.	7.2	0.8	1 0.0.
ANA	contempor	726	uly I		ces	brip.	(atch				sorbed	P.T.H. Alkalinity	M.O. Alkalinity			• •		B. Coli-present In ?c.c. & upwads
ER	Res	Months 1957	Colour	Total Solids	Total Hardness	Chlorides Vbr.	Amm. N. Mater	ż.	15. N.		Oxygen Absorbed (Tidy)	. Alka	Alkal	hates		-14	18	& upy
WAT		Mo		Total	Total.	Chlori	Amm.	Alb. N.	Nitrous. N	Nitric. N.	Oxyge	P.T.H	M.O.	Phosphates	Iron	pH.	Silicates	B. Co 7c.c.
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WATER ANALYSIS

STATISTICS SUPPLEMNT No. 45

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URUR WELL (EAST ADAYAR)

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URUR WELL (WEST ADAYAR)

III	Dec. 05	Curs	75.6	21.0	7.0	0.004	0.003	0.001	Pr.	0.043	-0.5	17.8	0.03	Tr.	7.6	0,6	- 60 e.e.
T	Nov.	C	58.4	17.0	4.0	0.002	0.002	100.0	Pr.	0.049	-0.5	16.2	0.04	IIN	T.T	0.6	10c.c.
200.0	Oct.	C	51.6	16.4	7.2	0 002	0.006	Tr.	IIN	0.040	-0.8	18.1	0.02	IIN	7.8	0.8	1 c.c.
IV.	Sept.	C	62.4	17.0	7.0	0.004	0.003	Tr.	I	1	-1.0	18.7	0.02	Tr.	7.6	8.0.8	0 c.c.
AL M.	Aug.	U	39.6	21.0	5.0	0.003	0.003	0.005	Pr.	0.066	- 0.8	17.5	0.03	M. Tr.	7.6	0.8	5 c.c. 60
NIC	July	C	44.4	17.0	5.0	0.003	0.008	0.001	Pr.	0.063	-0.7	17.1	10.0	Tr. N	7.6	0.6	-60
	June	C	38.8	20.0	6.0	0.002	0.002	IIN	IIN	0.066	-0.6	17.5	0.04	0.005	7.6	b.0.1d	5 c.c.
inn	May	·	52.0	16.4	6.0	0.004	0.003	IIN	IIN	0.109	-0.5	16.5	0.04	0.005	7.6	0.6	c. c
	April	C	57.2	22.0	11.0	0.002	0.002	IIN	IIN	0.051	0.2	19.8	0.5	liN	8.0	0.6	-60 c.c.
	Mar.	c	49.8	20.0	9.0	0.002	0.018	0.001	IN	0.033	1.4	21.9	0.02	0.015	8.3	10.0.6	60 C.C.
	Feb	C	51.2	21.0	8.0	IN	0.002	IIN	Pr.	0.096		19.0	0.016	M. Tr.	T.T	0.6	-60 c.c.
	Jan.	c	45.8	17.6	7.0	0.003	0.002	0.001	Tr.	0.056	0.2	16.7	0.02	M. Tr. M.	8.0	0.8	5 c.c.
100	Dec.	C	50.8	7.4	2.4	0.003	0.003	0.001	Ţ.	-		10.7	0.03	0.02 M.	7.6	0.6	5 c.c.
	Nov.	M	32.7	10.0	2.0	IIN	0.002	lin	Ţ.	0.072		10.7	0.03	10.0	7.6	0.0	1 c.c.
	Oct.	C	38.0	8.6	2.1	0.002	0 004	IEN	IN	0.032	0.2	I.II	0.02	0.015	8.0	000	- 60 c.c.
	Sept.	c	28.8	10.0	4.0	0.005	0.002	IIN	1	9	9.0-	11.6	0.02	0.03	2.6	9.0	1 c.c.
	Aug.	C	24.4	10.0	2.0	IIN	0.003	10000	ų,	0.060	-0.6	10,8	0.03	0 015	T.T.	0.8	1 c.c.
	July	o	30.4	9.0	3.0	0.003	0.010	0.005	Tr.	0.075	-0.5	III	0.01	10.0	7.6	0.6	1 c.c.
	June	C	26.0	10.0	1.8	0.002	0.002	IIN	IIN	0.048	-0.5	10.5	0.04	10.0	7.6	0.6	1 c.c.
	May	M	27.2	. 6.4	8.0	0.006	0.006	IIN	IIN	0.238	-0.8	11.0	0.03	0.03	L.L	0.6	1.c c.
		c	32.0	9.0	7.0	0.004	0.002	IIN	IIN	0.132	-0.5	11.5	0.03	10.0	7.6	9:0 5	1 c.c.
	Mar. April	c	40.4	11.0	5.0	0.002	0.002	0.001	IIN	0.040	-0.6	11.4	0.01	Tr.	7.8	9.0	60 c.c.
	Feb.	c	38.4	10.0	6.0	IIN	0.004	IIN	Tr.	0.037 0.064	-0.7	13.8	0.02	0.03	LLL	0.4	20 c.c.
-	Jan.	c	37.4	11.8	3.6	0.002	0.002	0.001	Ţ.		-0.3	14.2	0.02	M. Tr.	8.2	12 0.6	-60 c.c.
	Months 1957	L Colour	Total Solids	Total Hardness	Chlorides	Ammoniacal N	Albuminioid N	Nitrous N	Nitric N	Oxgen absorbed (Tidy)	P.T.H. (Alkalinity.	M.O. Alkalinity	Phosphates	Iron	рН	Silicates Magn	B.Coli-present in <i>M</i> oc. & upds

46. 86.		Dec.	0	44.8	16.0	1.0	0.002	0.003	14.	<sup>2</sup>	31.0	0.088	-0.5	14.0	0.02	IIN	8.0	0.6	0.0
I No:	0.0 1.4 1.4	Nov.	U	59.6	16.0	7.0	0.002	0.002	IN	Pr	13.0	0.049	-0.5	13.6	0.03	ų	8.0	0.6	- 60 c.c.
MEN	1 1957	Oct	C	34.4	17.0	13.0	Nit	0.002	IIN	Pr	164	0.037	c1.0	12.5	0.02	0.005	8.2	0.4	- 60.
PPLE	eas ir	Sep	C	35.2	15.0	8.0	Nil	0,002	0.005		17.0	424	0.7	13.1	10.0	IIN	8.0	ar 0.8	- 60. c.c.
INS S	ing ar	Aug	U	36.4	15.0	6.0	0.002	0.003	Nil	Pr	21.0	0.070	-0.5	11.9	0.02	M.Tr	7.8	9.0 3	-60. c.c.
DITSI	outly < MAI	July	υ.	35.6	16.0	5.0	IIN	0.002	0 001	Pr	17.0	0.056	-0.5	11.8	0.02	IIN	8.0	11-0.4	- 60.
STATISTICS SUPPLEMENT	ply to	June	Co	36.0	16.0	7.0	0.002	0.002	0.005	NIL	20.05	0.045	-0.2	- 12.0	0.01	IIN	8.0	0.0	- 60.
12	r supj	May.	C	46.4	14.0	7.0	0.004	0.002	IIN	IN	N.OI	0.068	0.0.0	I	0 02	0.01	8.4	0.0011	- 60. c.c.
12.3	s of water supply to outlying a well, OPP ; wenlock MARINA	Apr.	C	41.6	150	11 0	0 002	0 002	IIN	EN	22.0	0.041	0.3	12.5	0.03	0.005	8.1	31.0.6	-60. c.c.
08	ves of	Mar.	c	55.2	17.0	14.0	IIN	0.002	IN	IN	0.02	0.020	El.1	13.3	0.008	0.01	7.9	2 00.4	- 60. c.c.
28	as Sour	Feb.	S.Y	0.99.0	15.0	7.0	IIN	0.002	0.005	Pr	31'0	0 069	-02	13.1	0.008	0.005	8.0	0110.4	- 60. c.c.
200	Examination of the shallow wells used as Sources of water supply to outlying areas in (Results expressed in parts per 100,000.) MARINA WELL OPP ; WENLOCK MARINA	Jan.	S.Y	62.0	18.0	9.0	Nil	0.004	0.001	Pr	12.0	0.035	- 0.5	14.3	0.004	0.005	8.0	0.6	-60. c.c.
500	vells u per 1	Dec	c	102.4	29.0	31.0	0.002	0.003	IIN	Pr	1	0.081	-0.5	17.5	0.01	IIN	7.8	0.6	- 60. c.c.
1 0.0	parts	Nov	o	91.6	23.0	28 0	0.004	0.004	0.005	Pr	10.0	0.102	- 0.5	15.8	0.02	H	7.8	0.0	5. c.c.
00	he sha sed in	Oct	C	137.2	34.0	58.0	0.002	0.002	IIN	- H	8.6	0.040	0.5	3 15.5	0.004	0.005	8.2	9.0 ada	- 60. 60.c.c. 5
1 0.0	sanof t	Sep.	U	164.0	32.0	55.0	0 0 0 3	0.002	0 0 01	130	10.01	1	6.0- 8	15.8	0.01	IIN	7.8	9.0	- 60
l and	sults e	Aug	0	181.6	42.0	0.69.0	5 0.002	0.002	0 001	400	1079	0.048	6-0.8	15.6	0.01	0 005 M. Tr	8.0	101019	- 60. C.C.
1 2.5 1	Exan (Res	July.	0	156.4	37.0	69 0	0 0 005	0.004	IN		0.0	0.148	-0 2 - 0.5	14.4	0.01	0 002	8.0	0.4	20. c.c.
10:01	mical and Bacteriological Examinat (Results WELL OPP: ADAMS ROAD, MARINA	Jnne.	C	154.4		58.0	6 0.002	0 002	0.005		10.0F	0.063		16.5	100	Tr	7.8	0.6 0.6	-60. 10 c.c. 20. c.c.
1,6.0	teriol	May.	C	154.4	33.0	58.0	0.006	IIN	0.005		1.	0.098	0-0 0	14.2	0.01	0.01	7.8		
1 c.u.	id Bac	Apr.	U	145.2	32.0	55.0	0 002	0 0 0 1	0.003		90	0.101	-0.4 - 1.0 - 0.7	14.8	0.03	0.005 M.Tr	7.8	scr0.4	-60. c.c.
0000	cal ar	Mar.	0	122.0		0 51.0	0.004	2 0 004	0.001	IN	-110	0.027	4 - 1.0	0 15.5	0.01		7.8	Purco.4	. 20.cc.
S	Chemi	Feb.	U	2 112.0		41.0	Nil 1	4 0 002	IIN I		10.0	4 0.107	S - 0.4	1 16.0	0.006	0 005	7.9	JIC 0 4	- 60. c.c.
ISATI	Results of Chemical and Bacteriological Examinationof (Results expre WELL OPP: ADAMS ROAD, MARINA	Jan.	C	. 88.2		37.0	0.004	0 004	20	°.⊧	_	0.114	0.5	. 157	10.0	0.005		C 0.6	-60.
ANA	Resul	1957	ur	 S	ness		N ha	b N	5			bsorbed	calinity.	linity	TRE	:	. :	alte o	resent in
WATER ANALYSIS		MOnths, 1957	Colour	Total solids	Total hardness	Chlorides	Ammoniacal N	Albuminoib N	Nitrous N.	Nitric N	Hult	Oxygea absorbed (Tidy)	P.T.H. Alkalinity.	M.O. Alkalinity	Phosphates			Silicates Centre	B. Coli-present in -60.
M	.Hq .Hq	N'D	UT.S	Tot	Tot	S	An	AIN	Nic	Colico Nin	Tort	ő	P.T	W.	Pho	Iron	pH.	Silic	B.G

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WATER ANALYSIS

STATISTICS SUPPLEMENT No. 48

Results of Chemical and Bacteriological examination of the shallow wells used as sources of water supply to out-lying areas in 1957. (Results expressed in Parts per 100,000).

	W	WELL AT GANAPATHY COLONY (GUINDY)	T GAN	TAPAT	HY CC	LONY	(GUID	(YOY)						WELL AT	AT C	HELLA	PILLA	YAR K	CHELLAPILLAYAR KOIL STREET (38th DIVISSION)	REET	(38th ]	DIVISSI	(NO	
Months 1957	Jan.	Feb.	Mar. April		May	June	yuly .	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July A	Aug. S	Sept.	Oct	Nov. D	Dec.
Colour	C	C	S.Y	0	C	C	C	12.1	C	C	C	C	S.Y	S.Y	U	0	C.	0	0	U	C	U	U	U
Total Solids	151.6	138.6	149.6	136.4	146.8	128.6	158.4		134.0	153.2	136.8	195.6	105.2	80.4	84.8	81.6	127.6	80.8	79.6	83.2	89.6	80.4 1	128 0 1	156.0
Total Hardness	55.0	50.0	60.0	56.0	55 0	53.0	56.0	Diric	54.0	54.0	55.0	55.0	30.0	27.0	28.0	28.0	28.0	30.0	26.0	34.0	27.0	26.0	45.0	37.0
Chlorides	33.0	30.0	33.0	28.0	24.0	24.0	27.0	1	22.0	28.0	23.0	27.0	19.0	16.0	17.0	17.0	17.0	15.0	11.0	16.0	15.0	12.0	29.0	24.0
Ammoniacal N	0 004	0.002	0.002	Nil	0.003	liN	Nil	pətəə	IIN	IIN	0.002	Nil	0.002	PN	0.004	0.003	0.004	0.002	Nil	0.005	0.002	0 002 0	0.003	0.002
Albuminoid N	0.003	0.002	0.002	0.002	0.002	0.003	0.003	lloo	0.002	0 002	0.048	IIN	0.003	0.004	0.004	0.004	0.016	0.002	0.003 0	0 003	0.003	0.002	0.004	0.002
Nitrous N	0.005	0.001	0.001	0 001	0.005	0.001	0.001	ton s	100.0	Nil	0.001	100.0	0.005	0.005	0.005	0.005	0 005	IIN	0.005	IIN	0.005	0.005 0	0.005 0	100.0
Nitrie N	Pr.	Int.	Int.	IIN	Tr.	Pr.	Pr.	Idan	F	Pr.	Pr.	Pr.	IIN	Int.	Tr.	IIN	Tr.	Pr.0	Int.	Pr.	10	IIN	Int.	Int.
Oxygen absorbed (Tidy)	0.120	0:030	0.058	0.095	0.083	0.062	0.075	S	No. 1	0 050	0 042	0.043	0.150	0.059	0.033	0.120	0.120	0.018	0.093	1	Sal I	0.024 0	0.75 0	0.078
P.T.H. Alkalinity.	-2.7	-31	-2.6	-2.1	-2.5	-1.5	-2.0		-2.5	-2.0	-20	-0.5	4.5	-2.5	- 3.4	-1.4	-2.7	- 1.5	-2.5	- 2.0	-3.3	-1.5 -	-1.5 -	-3.0
M.O. Alkalinity	23.6	25.5	24 9	24.9	24.2	23.1	24.3		23.0	26.4	24.1	25.5	30.5	29.2	28.1	30.4	29.2	1	1	30.2	28.4	27.9	29 5	29.8
Phosphates	0.002	100 0	10.0	IIN	100'0	0.01	10.0	VIII-	0.008	10.0	0.01	0.05	0.05	0.05	0.05	0.08	0.08	0.04	0.03	0.05	0.05	0.06	0.05	0.04
ipe last	0.3	Tr.	Tr. M. Tr.	0.01	0.01	0.01 M. Tr. M. Tr.	M. Tr.	100	0.03	IIN	Tr.	Tr.	0.005	0 005	0.01	0.015	0.02	0 005	0.01	0.03	Tr.	10.0	Tr.	Tr.
	T.T	73	7.6	7.4	7.5	7.5	7.5	R ST	7.5	7.6	7.4	7.3	7.6	7.4	7.2	7.3	7.2	7.6	1.1	7.6	7.2	7.8	76	7.2
Silicates	0.8	0.6	0.6	0.8	0.6	0.6	0.8	(uco)	0.6	0.8	0.8	0.6	0.6	0.6	0.8	0.6	0.6	0.8	0.6	0.8	0.6	0.8	0.6	0.8
B. Coli-present in ? c.c. & upds	5 c.c.	5 c.c. 60 c.c	60 c.c.	1 c.c.	1.c c.	5 c.c.	5 c.c.	notic	1 c.c.	09	5 c.c.	09	l c.c.	1 c.c.	1 c.c.	1 c.c.	1 c c	I c.c.	1 cc. 1	1 c.c.	l c.c.	1 c.c. 1	1 c.c. 1	1 c.c.

WATER ANALYSIS

STATISTICS SUPPLEMENT No: 49

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Results of Chemical and Bacteriological Examinationof the shallow wells used as sources of water supply to outlying areas in 1957 (Results expressed in parts per 100,000.)

WELL AT NAGAPPIER STREET, (40th Division	IAGAPI		PIER S	TREET	, (40th	Divisio	-	0.03 0	81	01005	0.006	0.11	WE	LAT	WELL AT KOTTUR, ADYAR	R, AD	(AR		60	
Mar. Apr. May. Jnne. July. A	Jnne. July.	July.			Aug	Sep. 0	Oct. N	Nvo. D	Dec. Jan.		Feb. M	Mar. A	Apr. N	May. Ji	June July	y Aug.	g. Sep.	o. Oct.	Nov.	Dec.
c c c c	c c	C	5		C	U	0	U	- 0	c s	S.Y	U	0	C	c c		0	C	U	U
96.4 85.2 80.4 96.4	80.4		964		84.4 1(	104.4	96.0	94.8 10	06.2	40.4	53.2	34.8	43.6	52.0	48 0 5	53.6	50.0	0 54.4	4 44.4	32.0
26 0 27.0 27.0 25.0	27.0		25.0	-	26.0	24.0	28.0	25.0 2	25.0	12.0	10.0	11.0	0.6	10.0	10.0	0.6	00	8.0 7.0	0.11.0	13.0
20.0 14.0 17.0 16.0	17.0		16.0	100	16.0	16.0	15.0	18.0	17.0	15.0	5.0	10.0	10.0	80	60	8.0	1	7.0 7.3	3 8.0	0.6
0.003 0.005 0.004 0.003 (	0.004 0.003	0.003		0	0.004 0	0.004 0	0.003	Nil 0.	0.004 0	0.004 N	Nil N	0 IIN	0.002 0	0.004	Nil 0.	0.004	IIN	0.002	IIN 2	IIN
0.002 0.004 0.004 0.007 0.006 0	0.007 0.006	0.006			0.007 0.	0.004 0	0.002 0	0.002 0.	0.006 0	0.002 0	0.026 0.	0.002 0	0.005 0	0.002 0	0.004 0.	0.004	liN	0.002	2 0.002	IIN
0.005 0.00 0.005 0.001 0.005 0	0.001 0.005	0.005		1.000	0.005 0	0 005 0	0.005	Nil 0.	0.005 0	0 100.0	0.005 0	0.001 0	0.001	IIIN	IIN IIN	1000	IIN	0.001	IIN I	0.001
Tr. Tr Pr Int. Pr	Pr Int.	Int.		0	-	-	Pr	Pr In	Int.	Pr 1	Pr 1	Pr	IIN	Nul I	Pr. Pr		- 1	Ë.	Pr	Pr
0.058 0.138 0.143 0.108 0.116 0.088	0 108 0.116	0.116		ö	10.00		0 043 0	0.076 0.	0.070 0	0.106 0	0.139 0	0.064 0	0.074 0	0.113	0.078 0.	0.078 plc not	1	0.064	4 0.040	0.043
- 5.0 - 1.5 -1 5 -2.0 -3.5 -	-2.0 -3.5	-3.5		1000	-3.1 -	-3.4 -	-1.5 -	-1.2 -	-2.5	- 2.0 -	-18 -	-22	28	2.8	-1.2 -	-1.5	-3.0	0 -2.0	0 -1.5	5 -2.5
30 5 28.9 29.5 30 1 29.1 29	30 1 29.1	29.1		2	29.8	29.6	30.5	29.4	18.4	15.0	17.2	16.5	17.5	17.6	16.9	18.7	17.0	.0 14.5	5 15.5	17.0
0.08 0.08 0.05 0.02 0	0.05 0.02	0.02		-	0.05	0.05	0.04	0.05	0.04	0.02	0.02	0.02	10.0	10.0	0 03	0.02	0.01	0.03	3 0.02	0.01
0.005 0.005 0.005 Nil 0	0.005 Nil	Nil	-	0	L 10.0	Tr.	T 10.0	Tr. T	Tr. 0	0.005 M.	Tr. M.	Tr.	0.01 0	0.015	0.03 0	0.02	0.02	2 0.02	2 0.01	0 005
7.4 7.1 7.4 6.8	7.4		6.8		1.1	7.2	7.6	7.6	7.4	7.1	6.9	7.0	6.9	7.0	6.9	7.4	Land Do	7.0 7.0	0 7.2	7.0
0.6 0.6 0.6 0.6	0.6 0.6	0.6		Sec. Sec.	0.6	0.6	0.8	0.8	0.8	0.8	0.6	6.0	0.6	9.0	0.6	0.8		0.6 0.6	6 0.6	0.6
1.cc. 1 c.c.	c.c. 1 c.c. 1 c.c. 1	1 c.c. 1 c.c. 1	c.c. 1		c.c. 1	c.c. 1	2. 21	-60 L C.C.		- 60	- 00	- 60	-60	c.c.	- 60 c.c. 1	c.c.	-	- 60 - 60	60 -60	- 60

- 1057 the Ca.

WATER ANALYSIS

				50				
- 64 - 37	the treated s compared f untreated s reg :	Ігөп	+150	+ 50	+33	-33	+ 66	+ 300
aut -	of reduction or in- ase in the treated thes as compared that of untreated samples reg :		+17	46	4	liN	-79	RILLE L
. 20	% of reduct crease in th samples as with that of samples	Ammoniacal Nitrogen	IIN	IIN	IIN	-100	-34	
57.	ta a	Phosphate	0.001	0.002	0.001	0.001	0.001	100.0
/ear 19	ation	Iron	0.05	0.03	0.04	0.02	0.05	0.04
ig the j	After Sterilisation	Oxygen Absorbed (Tidy)	0.142	0.111	0.126	0.142	0.114	0.144
s durir	After	Albuminoid Nitrogen	0.056	0.028	0.013	0.072	0.006	0.048
r Main	In State	Ammoniacal Nitrogen	0.011	0.004	0.004	liN	0.002	0.004
Summarised Report on the Sterilisation of Water Mains during the year 1957.	1.1	Phosphate	0.001	0.001	0.001	0.001	0.001	0.002
ation o	Sterilisation	Iron	0.02	0.02	0.03	0.03	0.03	10.0
sterilis		Oxygen Absorbed (Tidy)	0.141	0.142	0.147	0.149	0.142	0.166
on the S	Before	Albuminoid Nitrogen	0.048	0.052	0.022	0.072	0.028	0.048
eport o	618 C	Ammoniacal Nitrogen	0.011	0.004	0.004	0.004	0.003	0.008
rised R	chlorine	Total Ibs of bssu	136	106	129	109.5	60	80
summa	onil eoq	Length of pi sterilised.	3 fur- longs	:	3	3		3 %
	ant and	Period	1-1-57 to 15-1-57 (10 days)	16-1-57 to 27-1-57 (9 days)	28-1-57 to 3 8-2-57 (10 days)	9-2-57 to 21-2-57 (10 days)	22-2-57 to2 5-3-57 (8 days)	6-3-57 to 19-3-57 (10 days)
		Place	l Venkatnarayana Road (opp. to Panagal Park).	2Sir C. P. Rama-16-1-57 to 3 swamy Iyer 27-1-57 Road, Anna- (9 days)	3Brodies Road, (near P.S. High School)	4 Peters Road, near Y.M.C.A.	5 Shenoy Nagar (near Cemetry)	Nathamuni Naidu Street, Shenoy Nagar
	0.	N'S	and a	6	E ta	4 Centro	S	9
			12 20.00		5 2			

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		61			
+50++200	+ 200	 + 200	+ 100	barag	-100
- 21 + 3	Nil - 50	+ 73	+ 1,500	bion bion bion bion bion bion	lin
- 27 - 33	- 43	 + 75	Nil to 0.004	+120	IIN
0.002	0.001		0.001	liN	0.001
0.03	0.03	 0.03	0.04	: 3	IIN
0.164	0.180 0.169	 0.175	0.132	upcq :	0.161
0.025	0.048 0.025	 0.069	0.064	0.048	0.048
0.008	0.004	 0.007	0.004 taken	0.022	0.004
0.002	0.001	led 0.001	0.001 not t	0.001	0.008
0.02	0.01	Collec ted 0.01 0.	.02	: 11	0.01
0.168	0.204	not 0.213	0.152 0 Sample	rbed :	0.169
0.032	0.048	ple 1	0.004	0.056	0.048
67 0.011 0.032 02 0.015 0.033	111         0.007         0.048           93         0.007         0.050	72 Sam ple 38 0.004 0.040	IIN	0.010	192 0.004 0.048
67	93	38	129	94 84	192 Jsebe
fur- longs	a 2	a a	fine Length	of pipe	a lui
20-3-57 to 2 5-4-57 to 2 (12 days) 6-4-57 to 2 25-4-57 (11 days)	26-4-57 to 2 7-6-57 (16 days) 8-6-57 to 3 27-6-57	(11 days) 28-6-57 to 2 10-7-57 (6 days) 11-7-57 to 2 28-7-57	(7 days) 29-7-57 to2 20-8-57 (12 days) 21-8-57 to2	26-8-57 (4 days) (4 days) 27-8-57 9-9-57 (5 days)	(5th 10-9-57 to 2 15-10-57 (20 days)
7 Lakshmi Talkies 20-3-57 to 2 fur- Road (Shenoy 5-4-57 long: Nagar) (12 days) 10ng: 8 Chandra Yoghi 6-4-57 to 2 " 5amadhi Road, (11 days) (11 days)	9 Brighton Road (at the junction of Gantz Road) 10 Paddy Field Road 6th	Division. Division. Il Suriyanarayana Chetty Street (at the junction of Kuppam Rd 12 Kuppam Road (Tondiarpet)	P d f	Koad Police Station)(acr15 St. Mary's Road27-8-5716 Kn n a malai-9-9-57puram)(5 days)	16 T. H. Road (5th Division)
H-16	9 Brij	11 Sur 11 Sur (6 (12 Kur	13Pul (( s) 14Pul	P P (4	16T.1

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STATISTICS SUPPLEMENT No. 50 (Cont.)

Summarised Renort on the Sterilisation of Water Ma

				62						
	ion or in- ne treated compared untreated reg:	Iton		+ 200	+ 166	+ 800	+100	+ 250	+ 200	+ 20
	% of reduction or in- crease in the treated samples as compared with that of untreated samples reg :	bionimudIA Nitrogen	Nil to .002	57+	+ 14	IIN	- +20	+20	+,20	122
	% of reduction crease in the samples as con with that of un samples rej	Ammoniacal Nitrogen	Nil to .002	27+	lin	Nil	Nil to 0.004	+ 100	IIN	15 -
(Cont.)	IN	Phosphate	0.001	0.001	0.002	0.002	0.002	0.002	0.002	1500.0
Sterilisation of Water Mains during the year 1957-(Cont.)	ation	Iron	0.03	0.03	0.16	0.09	0.02	0.07	0.06	10.0
le year	After Sterilisation	Oxygen Absorbed (z'ybiT)	0.109		0.120	0.139	0.069	0.112	0.114	101.0
tring th	After	bionimudIA nagoniiN	0.002		0.056	0.048	0.048	0.048	0.048	1900
ains du	10.0	Ammoniacal Nitrogen	0.002		0.004	Nil	0.004	0.004	0.002	0000
ater Ma	0.00	Phosphate	0.002		0.001	0.002	0.002	0.002	0.001	100.0
n of W	Sterilisation	Iron	90-0		0.06	0.01	0.01	0.02	10.0	0.0
lisatio	1	nsgyxO Absorbed (s'ybiT)	0.138		0.144	0.145	0.106	0.290	0.130	
	Before	Albuminoid Nitrogen	IIN		0.048	0.048	0.040	0.040	0.040	
t on th	010.0	Ammoniacal Nitrogen	lin		0.004	IIN	Nil	0.002	0.002	100
summarised Keport on the		Total Ibs. of Chlorine u	54	SE .	21	54	54	108	64	-
narised	pəs əd	Length of pi line steril	I fur- longs			2 "	2 "			lones
Sumn	tangan to	Регіод	16-10-57 to 27-10-57 (6 days)	of level	30-10-57 to 30-10-57	31-10-57 to 2 14-11-57	(6 days) 15-11-57 to2 21-11-57 (6 days)	22-11-57 to 2 12-12-57 (12 days)	13-12-57 to 2 31-12-57 (7 days)	24.24
ranatori	boost a quist rulaux e a 4 Au (maxing toe) boost .H.	Place	Jo	swami Pillai Street	18 Veeraswamipillai28-10-57 to Street, Egmore 30-10-57	19 Poonamalle High 31-10-57 Road (opp. to 14-11-5	20East Coovum Road (Chinta- dripet)	21 Mannappa Mudali Street (5th Division.)	22 Manikanda Mudali Street (opp. to Corpo- ration School	Roug repaired
	.0	N 'S	17.1	115	18/	191	20E	21 N	22 M	-

## STATISTICS SUPPLEMENT No. 51

Statement showing the number of cases of labour which came under the care and observation of Child Welfare Scheme in 1957.

			in the second	How	condu	icted			Cas	te		Re- arks
	paid by	isits	1		16.0	-				-		TINS
Serial No.		alth itors 962	By Nurses of C.W.S	Taken to Hospital	Taken over after barber women conducted	Maternity Ward	Total	Hindus	Christians	Muslims	Twins	Still Births Annu
	1. 1.482	613	100	Set n	27	1 1/0	1 470	1255	1	1.000	L. CT	31
1	Tondiarpet	21	189 213	86 7	27	1,168	1,470 226	1355 155	66 13	49 58	13	31
	Palmyrah Kuppam Royapuram		371	4	12		387	215		165	2	64
	Sanjivirayanpet		339	56	12	1,132	1,539	1476		59	12	30
5	Washermenpet	10.9	653	82	32	1,228	1,995	1537	28	430	13	75
6	Vysarpadi	E.v	283	83	29	629	1,024	976		16	7	22
7	Peddunaickenpet		366	13	11		390	386		4	1	8
	George Town	. COL.	296	43 77	$\frac{1}{6}$	679	1.019	886		100	7	20
9	Kothwal Bazaar		315	-11	0	674	1,072	803	62	207	7	25
10	Muthialpet	821	440	22	1	544	1,007	751	19	237	4	19
	Treveleyan Basin	805	177	49	27	908	1,136	1123	5	8	6	24
12	Mat. Home, Choolai	S	447	141	7	2,455	3,050	2899		87	33	89
13	Pulianthope	0	770	53	22	179	1,024	691	25	308	8	35
14	North Perambur	199.	341 620	12 85	7 14	626	360 1,345	220 1205	21	119	5	9
	Sembiam	5	329	121	25	832	1,345	1195	51 64	89 48	11	34 50
17	Ayanavaram Kilpauk		201	21	20	353	596	543	21	32		14
	Nammalwarpet	292	269	16	8		293	270	12	11	72	ii
	r uninur au por	614		201.0				282.6		L'angel	Dat	10
19	Kosapet	274	345	11	16		372	340	10	22	8	8
	Purasawakkam	02.0	198	30	5	885	1,118	1043	30	45	7	18
21	Periamet		140 17	3 19	5	752	148 789	105 680	4	39 43	1 4	4
	Ashok Vihar		65		1		69	69	66	and where	BY1	1000
	Edapalayam Park Town		101	353	1.1		106	104	···· 1	ï	ï	-ï
25	Napier Park	•••	361	3	7		371	324	3	44	3	6
	Egmore	426	265	35			305	193		100	2	
	Chetpet	030	113	23	5	529	671	603	49	19	3	57
20	1413	107-	100	10	4		120	120	dat	27.8	Roy	30
	Nungambakkam Kodambakkam		126 295	10 110	2 15	933	138 1,353	136 1281	22	50	11	3 43
	Royapettah		453	35	4	955	492	404	18	70	5	45
31	Triplicane	100	575	71	11	787	1,444	882	10	552	6	41
32	Zam Bazaar	227	304	17	2		323	192	1	126	3	4
33	Mirsahibpet	TT	394	10			404	185		219	7	3
	Mylapore		576	6	1		583	463	10	110	6	15
	Teynampet		522 280	14 125	23	1,859	538 2,267	511 2110	4 56	23 101	6 20	-8 64
0	Saidapet Mat. Home	200	200	125	3.	1,039	2,201	2110	50	101	20	04
37	Thyagaraya Nagar	The	342	11	2		355	351		4	5	8
38	Saidapet Sub-Centre	3.24	107	5	2 4 5		116	111	1	4	51	1
39	Guindy		66	3	-5		74	71	1	2	1	1
	Mandavalli	936	329	5	3		337	325	8	4	23	6
+1	Adayar		89	23	4	226	342	328	8	6	3	8
			12,682	1,548	347	Contraction of the	31,955	27501		3612	1000000	778

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## STATISTICS SUPPLEMENT No. 52

Statement	showing	the number of visits paid by the Staff of	f
		Welfare Scheme in 1957.	-

mber	soft	211 C	BL	Visits	paid by	
Serial Number.	Centre	ducted-	Midwives	Health Visitors	Assistant Surgeons	Total
1	Tondiarpet	000	7,485	6,962	711	15,158
2345678	Palmyrah Kuppam		1,641	3,714	267 .	5,622
3	Royapuram Sanjivirayanpet	15	0.068	4,013 4,415	487 397	6,656 14,780
5	Washermenpet		16 801	6,571	429	23,801
6	Vyasarpadi		4,948	4,120	323	9,391
7	Peddunaickenpet		5,573	3,354	269	9,196
8	George Town		6 562	4,827 6,093	679 1,191	11,385
9	Kothwal Bazaar		0,302	0,095	1,191	13,846
10	Muthialpet		7,699	7,709	702	16,110
11	Treveleyan Basin			5,163	705	9,902
12 13	Maternity Home, Choolai Pulianthope		11,804 12,847	7,950 5,188	901 785	20,655 18,820
14	North Perambur		5 516	1,703	305	7,524
15	Sembiam		8,470	3,233	489	12,192
16	Ayanavaram		6,870	5.520	698	13,088
17 18	Kilpauk Nammalwarpet		4,416 4,090	4,667 1,712	469 317	9,552 6,119
10	Nammarwarpet	-25	192	28 1,112	REAL	avanava d
19	Kosapet		6,046	1,644	416	8,106
20	Purasawakkam		4,682	5,583	470 288	10,735
21	Periamet Ashok Vihar	.0.	2,195 2,213	1,410 2,274	139	3,893 4,626
21 22 23 24	Edapalayam		1,523	1,950	331	3,804
24	Park Town		1,950	2,071	194	4,215
25 26	Napier Park		3,968 2,721	2,743 1,959	505 348	7,216
27	Egmore Chetpet		4,256	2,231	266	5,058 6,753
2	T PA PAR INC	1			ark	15 Mapier J
28	Nungambakkam		2,032	1,426	348	3,806
29 30	Kodambakkam Royapettah		6,177 4,941	7,030 1,767	814 634	14,021 7,342
31	Triplicane	2	10,013	5,063	806	15,882
32	Zam Bazaar	.2.	2,702	2,262	446	5,410
32 33 34 35	winsamopet		4,746 3,790	1,577	562 575	6,885
34	Mylapore Teynampet	2.	5,580	2,971 2,546	705	7,336 8,831
36	Saidapet Maternity Home		6,858	4,377	508	11,743
20			41000	57	470	A Mylapor
37 38	Thyagaraya Nagar Saidapet Sub-Centre		4,836 2,944	2,633 2,246	470	7,939 5,568
39	Guindy		1,035	1,592	218	2,845
40	Mandavalli		2,773	2,241	1898 523	5,537
41	Adayar	.4	2,346	3,426	600	6,372
6	Total	3	2,17,116	1,49,936	20,668	3,87,720

1 . 12,682 1,548 347 1

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# STATISTICS SUPPLEMENT No. 53

Showing death among cases which came under the treatment of C.W.S. Private Doctors, etc., during the year 1957.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Traccable	
Serial No.	Centre	under o	mong cases are of C.W nder treatm	.S. but	is among cases ght under care treatment of C.W.S.	Total
S		Under Private Doctors	Under Vaidians treatment	In Hospital	Deaths among c brought under and treatment C.W.S.	ipooka 
	100		1 2 3	1:	Inchara	C C B
1	Tondiarpet					F
23	Palmyrah Kuppam	-1 -1 - 1		5.4.		13:3
	Royapuram Sanjivirayanpet			1	- Seller	1
5	Washermenpet	3		3		3
6	Vyasarpadi	and the state of the		32	10/31	2
0.7	Peddunaickenpet		1000			· · · ·
8	George Town	0. m.	2 91	2	Confirmed.	2
9	Kothawal Bazaar			1	1000	1 1
10	Muthialpet	94.8	28 8	8 18		-1
11	Treveleyan Basin		ï		I I I I I I I I I I I I I I I I I I I	2
12	Maty. Home, Choolai			1		-1
13	Pulianthope	+ int	· ··· ·	6 12	arrougened	0 1
14	North Perambur				(TERRITICO -	2
15 16	Sembiam Ayanavaram	110 09-		32		2
17	Kilpauk				Nursee	94
18	Nammalwarpet				Frivage   r	0 0
	20 m	12° 2°				2.23
19	Kosapet		:		Destor	
20	Purasawakkam				Detroite	a
21 22	Periamet Ashok Vihar	52 13		i iii		1
23	Edapalayam				Hospilal	1 3
24	Park Town	2. 9 9	1.0 0	-		5
	Napier Park	10 mm	2 9	S 5	an	
	Egmore			2		2
27	Chetput	3.2 ··· 3.6	01:10	E THE		
28	Nungambakkam	10.16		10 mm	Pitoff.	10
	Kodambakkam			1		= 1
30	Royapettah	3:20 213	200 2	2	Kellinered	· ···
31	Triplicane			3	'renatai cast	8 W 3
	Zam Bazaar Mirsahibpet			· ···		0
	Mylapore					1
	Teynampet			1		E.
	Saidapet Maty. Home			S.		
Ban	I de la	the	10	the	19	00
37 38	Thiagaraya Nagar Saidapet Sub-Centre	ANII WIL	an da		8·	
	Guindy	De Be	ina ina	12		
	Mandavalli	B 0	91. 8	111		+
	Adayar	33	Bai .			
E C	Total State	250 6.9	24 2	20		20
	Total	5 ··· /2	24	28	1	30
and the second		the state of the s		and the second	CONTROL TOPY	The second second

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CHILD WELFARE SCHEME

No. 3	II 2	Confined Not	135 8	12		<sup>1</sup>	38	62	180	FARE	23	
		Not Traceable	98	::	23		71 10	230	ω <u>Ω</u>	: 1	61.00	24
	Cases	Unskilled attendants	58				528		64	::	no	26
Into		Private	::	::	···· 7	::	12		: 1	::	::	140
	Unbooked	Private Poctors	(initia)	011	aidian		8	100	::	::	1	9
1957	Un	IstiqsoH	135	::	20		45	247	10	1.1	39	
iring		C.W.S.	54	::		::	76	80	5 18		53	28
l up dı		IstoT	480 31		413		189	851	199 71	A CLARK	126	395
ollowed		toN Donfined	56 52	93 163	284 104	59	97 68	14 385	123	150 91	30	80 56
and fo		Not Traceable	59 26	53	209	20	49 16	39	60 105	23 178	24	122
Pre-natal cases registered and followed up during		bəllianU attendants	57 10	9 103	38	332	64	59 14	202	21 37	15 11	60
ses reg	Cases	Private Nurses	::	::		17 13	172	::		14	73	5
ital cas	Booked	Private Doctors	7	9.1	::	14	10	38	::	: 1	40	
	H	IstiqsoH	113	249 189	135	248 348	169 246	91 60	920 166	88 147	14 84	126
iber of		S.W.S	1,047 274	536 780	1,487 887	656 581	796 984	602 1,835	685 228	1,246 898	743 298	717 562
he nun		Total	1,332	987 1,260	2,124 1,116	1,030	$1,192 \\ 1,385$	843 2,384	1,838 800	1,528	827 601	1,106
Showing the number of	p səst	Prenatal ca Registere	1,812	999 1,260	2,124 1,529	1,042	1,381	1,694 2,384	2,037 871	1,528	953 693	1,109
Sho		Carl Carl	: :	::	::	::	::	hoolai	::		A star	1
		Centre	1 Tondiarpet 2 Palmyrah Kuppam	3Royapuram 4 Sanjivirayanpet	5 Washermenpet 6 Vyasarpadi	7 Peddunaickenpet 8 George Town	9 Kothwal Bazaar 10 Muthialpet	11 Treveleyan Basin 12 Maternity Home, Choolai	15 Pulianthope 14 North Perambur	15 Sembiam 16 Ayanavaram	17Kilpauk 18Nammalwarpet	19Kosapet 20Purasawakkam
	.0	Serial N	5-	ω4	6.5	1-80	101	121	14	15	17	191

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12	23	84	35 38	69	13	39		13	6	24	1,20	HUD WELFARE
-	<u>604</u>		47	150	128		88 6	18	18 27	ine. v.v.	1,238	-
and the second		15	11	10	34	4	Ξ	12 8	15	: ::	591	
and the second	::				2		: ]	:-	::		94	Centro
Ch Press			31	I.	90	:::	1	::		: :::	181	
14-14-1	27	44	197 327	<b>64</b> 422	98 224		132	38 83	47 15	10	2,294	aruad
	5	C1 00	2011	157	39	:=	612	16	14		780	1.Tondiarpes
and the	489	24 323	332 418	450 99	329 265		234 23	149 100	103 96	14 28 28	6,382	Royapunm Skoyapunm (Sanjivirayan pe
A Share	20 67	17 15	78 65	84	141 47	217 76	24 121	20 266	6 77	52 52 52	3,661	eVydaupadi TPaddunuckands
	29	37	44	133	102 8		47 92	88 230	38 45	6 36 14	2,330	skothwal Bazaar 10Muthiatpet
	20	ω4	26 8	39	66 13	94	6.0	41 95	38 72	20212	1,211	LiTreveloyan Bas LiMatemity H Choolai.
ALC: NO	::	::					е :	1	<del>ر</del> ن	3	317	134'ulianthope 14North Perambu 15.Sembiam
ALC: NO	::	8 -		5	96	::	4	<del>ر</del> ۳	20		204	16Ayanavaram 17Kilpauk (2Nammalwarpe)
1 1 1	4-	23	380	120	169 414	61 302	342 382	417 343	162 121	32 243 79	7,864	19Kosapot 20Purasawalkam 21Periamet
	255 143	215 174	423 244	396 228	911 383	1,444	311 500	517	572 450	79 295 238	1000	22 Ashok Vihat 23 Edapalayano 24 Park Towa
	360 636	263 293	958 650	755 524	1,400 872	1,728 641	1,105	1,087 2,104	839 766	148 630 402	47,402 41,020 25,040	23 Vapier Park 26 Equore 217 batpet
1 1 1	364	287 616	1,290	1,205 623	1,729	1,728	966	1,236 2,204	942 862	162 653 430	7,402 4	38 Yungambakkan 29K odambakkan 30Royapatab
	11	::				11	::	here the same	::	:::		322 am Harnar
Di Billione de la composición de la composicinde la composición de la composición de la composición de	ar	8.	rk	ıkkam	ckam h	ar	et	35 Teynampet 36 Saidapet Maternity Home	a Nagar Sub-Centre	li	Total	34 Mylapore 34 Mylapore 35 Tevnampet 36 Saidapet Home, 37 T. Nagar
The second s	21 Periamet 22 Ashok Vihar	23 Edapalayam 24 Park Town	25 Napier Park 26 Egmore	27 Chetpet 28 Nungambakkam	29 Kodambakkam 30 Royapettah	31 Triplicane 32 Zam Bazaar	33 Mirsahibpet 34 Mylapore	35 Teynampet 36 Saidapet Ma	37 Thiagaraya Nagar 38 Saidapet Sub-Centre	39 Guindy 40 Mandavalli 41 Adayar		
1	22	66	ññ	22	N.M.	m m	ù ù	ññ	ññ	w44		

Statement showing	deaths among cases	brought to t	he notic
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		Cardio disease	vascu es of H	lar eart.	Respir disea	atory	Alim	nentary seases	Urinary Tract diseases	Toxaemias
Serial Number Centre	101 181 64 301	Vascular diseases of Heart	Heart failure	Anaemia	Pneumonia	Tuberculosis	Tuberculosis enteritis	Dysentry Intestinal	Obstruction Renal failure	Pre-eclamptic Toxaem Cholaemia Cerebral Thrombosis
1 Tondiarpet 2 Palmyrah Kupp 3 Royapuram 4 Sanjivirayan pet 5 Washermenpet 6 Vyasarpadi 7 Peddunaickenpe 8 George Town 9 Kothwal Bazaar 10 Muthialpet	  et			14 1 16 4 16 14 14		ITTELET	1111111			
<ul> <li>11 Treveleyan Basi</li> <li>12 Maternity H o</li> <li>Choolai.</li> <li>13 Pulianthope</li> <li>14 North Perambu</li> <li>15 Sembiam</li> </ul>	o m e,	-	FIT DI	2	TEI III	LEI PI.	11 11			
16 Ayanavaram 17 Kilpauk 18 Nammalwarpet 19 Kosapet 20 Purasawalkam 21 Periamet 22 Ashok Vihar 23 Edanalayam		61161161	bil titul 1 litt			I LI LIGI I	H H H H			
23 Edapalayam 24 Park Town 25 Napier Park 26 Egmore 27 Chetpet 28 Nungambakkam 29 Kodambakkam 30 Royapettah		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pet 1 let 1 he	The Part of the Part of	THE LOLD FOR	01 111 1 1 <sup>4</sup>	124   424   481	11111		
31 Triplicane 32 Zam Bazaar 33 Mirsahibpet 34 Mylapore 35 Teynampet 36 Saidapet Mate Home.	  ernity		Ceptel 11 1	1 Edutriphensh	HIT	1011.1-	11111	1		
37 T. Nagar 38 Saidapet Sub-Ce 39 Guindy 40 Mandavalli 41 Adayar	ntre.	The BE K &	2	1	approved by the later	1 ULTER CAN	I da lided oos		a tomu	

ł	Iaen	norrhag	je		Shoc	k		In	fecti	ous c	lisea	ses		s	Bin	-	
Haemorrhage	Placenta Praevia	Intra & Post Partum Haemorrhage	Retained Placenta	Obstetric Shock	Shock due to Internal Manipulation	Post operative Shock	Ruptured Uterus	Tetanus	Typhoid	Meningitis	Small-pox Measles, etc	Other Fever	Puerperal Sepsis	Inter Partium Sepsis	Pulmonary embolism	Puerperal Mania	Total
																	$ \begin{array}{c} - \\ - \\ 1 \\ 1 \\ 3 \\ 2 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$
2	-	2	2	-		2	2	_	-	-	1	4	-				30

Child Welfare Scheme during 1957 (vide Supplement No. 54)

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#### **STATISTICS SUPPLEMENT No. 56**

## Statement showing the total number of priority milk consumers from 1st January to 31st December 1957.

Serial No.	Centre	Expec- tant Mothers	Nursing Mothers	Infants	Toddlers	Total
1	Tondiarpet .		e la	100	bon	100
2		. 9.5-2.4		90	ST DE	90
3 4	Continingyonnat	· PREA	CI TI	79 73		79 73
5	Washarmannat			104		104
6	Vyasarpadi .			-94		- 94 -
7	Peddunaickenpet .			-98		- 98 -
89	Vethwel Demoer			113 95		-113 95
,	Rothwar Dazaat	-	- Internet			95
10				66		66
11	Treveleyan Basin		-	114 129	- 1	115
12 13	Maternity Home, Choola Pulianthope	·		136		129 136
14	North Perambur .			106		106
15		—	-	64	-	64
16 17	Kilnauk			116 85.	-	116 85
18	Nommalwarnat			105	_	105
	the second states and the				and man	
19 20	Kosapet . Purasawakkam .			-81 109		81 109
20	Dariamat		2 1	88	1	88
22	Ashok Vihar .			55		55
23		—		80		80
24 25	Naniar Dark				and the second s	87 89
26	Famore			104		104
27	Chatnat			87		87
28	Nungambakkam .			83	1-1-1	83
29	Kadamhakkam			138		138
30	Royapettah .	—		88		88
31				94 46		94
33	Mircohihnot			96		46 96
34	Mylapore .			60		60
32 33 34 35 36				75		75
36	Saidapet Maternity Hom	e. —		104	100 000	104
37 38				58		58
38	Saidapet Sub-Centre .			101		101
39 40	Mandavalli			63		68
40	Adavar			88	1	88
	Total .			3,641	1	3,642

# STATISTICS SUPPLEMENT No. 57

Statement showing the Serological Examination of Blood of Antenatal cases during the year 1957

Serial No.	Centre	Total number of Blood Samples examined	Number of positive cases	Number of Positive cases that took full course of	Number of Positive cases that took partial treatment	Number of Positive cases that did not turn up for treatment inspite permis- sion by the staff
1	Todiarpet	72	5	an and	The second	5
2	Sanjivirayanpet		53	16	17	20
23	Washermenpet	17,65	146	10	14	122
4	Vyasarpadi	181	6	5 P 2	0 < 1 1 <	5
5	George Town	1,092	64	6	20	38
6	Kothawal Bazaar	171	9		Value and	9 000
7	Treveleyan Basin	790	32	17	2	13
8	Choolai Maternity		6	and and make	I line 1	ashir actan
	Home	2,232	104	43	29	32
9	Pulianthope	1,041	59	7	26	26
10	Sembiam	258	15	2	1	12
11	Ayanavaram	1,229	48	2 27 2	5	16
12	Purasawakkam	496	19	2	6	11
13	Kodambakkam	293	24	15 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- french - fr	24
14	Triplicane	1641	59	21	4	34
15	Saidapet Maternity		Store By	2 2 2		ratori per
	Home	1,674	102	27	16	59
16	Adayar	61	5	3	1	4
	Total	14,153	750	178	430	142

CHILD WELFARE SCHEME STATISTICS SUPPLEMENT No 58 Showing the number of labour cases that came under the care and observation of Child Welfare Scheme; Infant mortality rate and Maternal mortality rate of Child Welfare Scheme from the years 1940 to 1957.

Year	No. of labour cases that came under the care and observation	Infant Morta- lity rate (per 1000)	Maternal Mortality rate (per 1000)
1940	14,489	115.80	2.50
1941	14,984	103.40	2.60
1942	8,390	104.40	3.00
1943	11,227	113·50 140·60	2:40
1944	10,591 14,002	141.90	2·20 1·57
1945 1946	19,147	102.80	2.50
1940	18,412	81.70	1.95
1947	26,051	83.00	1.91
1949	28,129	70.41	2'31
1950	26,957	95.52	2.00
1951	29,931	123.16	1.90
1952	32,264	125.43	1.73
1953	27,219	114.23	1.76
1954	29,209	110.31	1.27
1955	32,285	105.75	1.39
1956	31,267	109.30	0.12
1957	31,955	108.25	0.94

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# CHILD WELFARE

# Statement Showing Pre-natal cases registered and

-	the second	Card Vascu disea	lar	Read	spir	ator	y	Alin	nenta disea	ary T ases	ract	Disea Uri Tı	ses o nary act	of			emia o gnancy	
Serial Number	Centre	Valvular and dis- eases of Heart (V.D.H.)	Hypertension Vericose Veins	Bronchitis	Pneumonia	Pulmonary Tuberculosis	Asthma	Constipation	Dyspepsia	Diarrhoea	Dysentery	Scanty Micturi- tion & Reten- tion of Urine	Albuminuria	Pyelitis	Pre-eclamptic Toxaemia	Eclampsia	Acute-yellow atrophy of the liver(Jaundice)	General anasarea
123456789	Tondiarpet Palmyrah Kuppam Rayapuram Sanjivirayanpet Washermenpet Vyasarpadi Peddunaickenpet George Town Kothwal Bazzar	 1  10 2 9 1 5	8	1 13 . 88 . 40 1 2 . 33 5 50	3 3 3 42	  2  2  2	1 2  10 2 9 5 2	15 7 4  13 5 16 14 	 70 44 8 5	8 3 4 40 11 7 11 9 5	4 2 10 22 17 1 9 6 6	7 7 9	 2 16 		13 31 24 49 9	4	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	
11 12 13 14 15 16 17	Muthialpet Treveleyen Basin Maty. Home Choolai Pulianthope North Perambur Sembiam Ayanavaram Kilpauk Nammalwarpet	5 9	3. 11	· 1: 5 4: 1 2:	1 0	2 2  	5 3	93 23 146 105 51 1 41 48 55	125 66 184 82 222	9 12 3 12 5	19 32 1 7 7	66 65 127 86 52 142	···· ···· 2 ··· 1		5 64 22 2  32			10 12  28 
20 21 22 22 24 25 20	Kosapet Purasawakkam Periamet Ashok Vihar Edapalayam Park Town Napier Park Egmore Chetpet	 2 3 6 1  4 1 	···· ···· 7.	5 3. 	2 1 8 4 1 1 2 3	 1 1	12 1 3 7 3  10 	43 35 26 43 116 320 77 68	27 2 13 35 12	2 5  15 3	 6 2 4	62 10 24  7 21 59	6 3  2		18  11 7  6		1  1  	: : :
2930	Nungambakkam Kodambakkam Royapettah Triplicane Zam Bazzar Mirsahibpet Mylapore Teynampet Saidapet Maty. Home	 2 13  23  5		0234	7	1  6	2 4 1	120 51	9 205 136 18 157 104 249	6 13 27 7 9 7 16	7 13 1 3 8	75 93 64 86  90	27 1 12		94 1 21 5	•••	"i   	:::::::::
38 39 40	7T.Nagar Saidapet Sub. Centre Guindy Mandavalli Adayar Total	 1  3 5 129	200	- 40	D 1 2 4	1  1  47	1 1 1 3 179	27 5 11 1631	191 84 11 63 49 2867	 5 2	-	10 	and the	10	6		1  	 10  183

lments of pregnancy diagnosed and patients advised in 1957.

eficienc	y	Ру	rexi	a	Debi- lity	Spe	ecific	dise	ases		bnor	dise mali egnar	ties		neu‡¢		EMI
Vitamin deficiency Other Nutritio	nal deficiency	Influenza	Malaria	Rheumatism	General debility (Emaciation)	Skin diseases	Ear, Nose & Throat	V.D. Syphilis Gonorrhoea	Leucorrhoea	Morning sickness	Anaemia	Ante-partum Haemorrhage	Breast abscess	Hydraminus	Normal	Other diseases	Total
231 6 2 14 5 10 6 126 0 125 0 136 . 109 7 85	5  21 61 1 7 1 3	 1 11 32 7 3 16 100	4 4		95 2 4  56 12  48 39	2 5 3 18 21 6 19 14 8	 1 	··· ·· ·· ·· ·· ··	··· 3 1 ··· 2 1 7 ···	 1  2 	351 39 58 429 348 157 219 144 344		1   1 2 	··· ··· ··· ···	424 445 828 411 1118 445 460 631 416	41 24 13 63 142 128  23 16	1332 554 987 1260 2124 1116 1030 1151 1192
4 171 . 145 3 236 3 154 7 87 . 116 . 110 . 21 1 71	70   10 6 	24 12 23 24 22 7 8 1 23	21  4  2	4 7 2 4  1 	16 102 4 89 127 113 57 66	19 11 26 10  4 20 13 2	··· ··· ··	and the second se	15 5 8  7 14 	··· 5 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	114 87 313 277 71 228 85 49 46	5 1   3  1	4 1 2   	6 3 13   	153 308 859 773 203 477 526 149 144	169 12 98 107 5 270 98 78 15	1385 843 2384 1838 800 1528 1365 827 601
27 38 18 50 19 . 19  28 2 34 . 19	25  2  38  8	20  7 4 1  2 6 1	2  1	27	74 3 27 10  13 45 14 50	7 18 6 5 2  5  2		··· ·· ·· ·· ·· ·· ·· ·· ·· ··	··· 11 2 ··· 5 3 2	34   3  3	71 31 32 61 58 169 155 8 177	··· 7 1 ··· ··· ···	1 6 1 1  2 		562 179 128 250 156 51 151 197 292 160	80 166 33 93  4 50 44 153 24	1106 704 360 636 263 293 958 650 755 524
28 219 61 144 20 41 200 5 283 186	15  1 152 	13 3 59 3 7 48 9		1	4 10 67 105 16 50  101 36	6 2 8 6 5 4 6  10	···· ··· ··· ··· ··· ···	24 45 57  3 1 98	 2 2 33 4 7 1	···· 4 ····	137 159 309 135 63 131 86 324	···· 2 ··· ···	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	··· 1 ··· ···	675 88 409 225 106 155 186 156	13 63 136 50 94 6 5 181	1400 872 1728 641 732 1105 1087 2104
. 179 30 1 4 6 121 . 20	2 21  94 3	4 12 2 515		Sector 1	89 4 1 24 1573	12  3 4 312	   1	··· ·· ·· ·· ·· ·· ·· ·· ·· ··	3 8  2  148	2	57 217 18 49 40 5877	···· ··· ··· 20	1 1 1  26		187 233 93 120 170	10 40 2 7 8 2564	839 766. 148 630 402 41,020

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No. 60	Total.	490 60	125 341	603	211	492 206	145	534	507	144 514
	Other diseases.	50	31 24	138	94	146	4	1	158	188
SUPPLEMENT	Diseases of Breasts.	. n	11	10	~	10	1	8	~	16
PLE	Psychosis.	IE	11		11	11	1	-	11	TT
SUP	Aneamia.	96 3	10	191 1	33	130 24	23	30	55 13	12 26
STATISTICS	Puerperal Toxaemias.	-	-	TI	27	-4	1	1	-	EF
TST	Utrine.	, 11	-	11	11	112	1	26	- 8	21
STA'	Pyrexia.	80	20	78 8	15	22	12	55	50	13 20
0001	Phlebitis, Thrombosis.	TIM	11	11	TT	- []	Te	T	TT	TT
. 116	Puerperal Sepsis.	14	١٣	21	-1	=	S	4	12	30
1957.	Urinary Complication.		8 -	59		14	7	21	32	5 46
year	Perneal & Cervical Laceration.	33	12	50	9	288	55	151	13	50
the	Delayed 2nd Stage.	37	1 56	32	66	10	15	38	15	50
y in	Proportion. Tedious labour	4-	11	1 2	4	11	1	9	13	-11
Mortaliţy	ality Contracted Pelvis. Malposition & Dis-	10	11	12	1-	1-	-	1	10	14
Mor	Haemorrhage. Anatomical Abnorm-	00 m	11	- 00	15	ω∞	9	35	15	14
	Retained Placenta.		-0	5 -	1-	1-	-00	~	15	1-
Maternal	101 P11 0 0		TT	-1	181	TT	-	2	TL	
	Placenta Praevia.		11	TT	11	TT	1	1	21	EI
Showing	Ectopic Gestation.		11	11	EL	14	TT	1	TE	TI
Sh	Hydatiform mole.	- 91	28	44	20	5.00	14 -	12	20	51
	Abnormal Presentation.	1 fran	35 - 58	10	80	21		24	5	12
	Anaemia.	- 200	- I - I -		-	64		3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
113	Placenta Praevia.		11	11	11	11	1	2	11	1
EMI	Accidental Haemorrhage.	4	10	8		14	1	2	2 (2)	10
SCH	181 11156 181	B 324		ke fr	10	1.2				180
RE	Lie 147 10	nppa	pet	et	npet	aar	Home,	Choolai	bur	
LFA	Centre.	bet h Kı	am	adi	Iowi	Baz	en B	Ċ	ope	ram
WE	8 001	Tondiarpet Palmyrah Kuppam	Royapuram Sanjivirayanpet	Washermenpet Vyasarpadi	Peddunaickenpet George Town	Kothwal Bazaar Muthialpet	Treveleyen Basin Maternity Home,		Pulainthope North Perambur	Sembiam Ayanavaram
CHILD WELFARE SCHEME	20 26 35 14,699 2564	Ton	Roy	Was	Ped	Kot	Trev		Pula	
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75 153	186 353	146	40 16	71 37	137 42	242 98	425 31	73 170	49 314 51 31	26 155	83	7726
322	77 192	81	50	15	14	24 26	140	13	4 96.11	15	9	1484
	14		30	11	21		61	1-	1-11	TT	1	1531
TT.	11	11	11	TI			TT	11	ΤΙΓ	11	Т	7
In	6 21	25	Ś	16 10	11 6	23	13	12	- <u>-</u>	121	7	940
112			5	IT	TI		T				1	54
1-	11	11	11	- 1	11	-	11	11	1 11-	1 ŀ	T	81
27	32	TT	40	19	8 14	30	13	18 40		22	6	775
TA	1,1	11	T	11	LB	L1	- 15	11	LITT	11	1	-
19	10	IJ	1 19	LL	51	38	37	16	23	18	Т	352
15	22	11	1-	L	4	-		18	1 0 0	121	1	320
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13.4	30	91	15	16	69	421	6	1-4	10 44 -	6	6	613
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9	-0		1-	-19	11	11	<u> </u>	-1	1 9 1 1	11	Τ	149
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bet	B				kam	am	bbs		Teynampet Saidapet Maternity Home Thyagaraya Nagar Saidapet Sub-Centre.			ique à
Kilpauk Nammalwarpet	Kosapet Purasawakkam	t ihar	yam wn	ark	Chetpet Nungambakkam	Kodambakkam Royapettah	ne zaar	bpet	pet t Ma aya Sub	alli		matu
Kilpauk Nammal	Kosapet Purasaw	Periamet Ashok Vihar	Edapalayam Park Town	Napier Park Egmore	Chetpet Nungam	Kodambakl Royapettah	Triplicane Zam Bazaar	Mirsahibpet Mylapore	Teynampet Saidapet M Home Thyagaraya Saidapet Su	Guindy Mandavalli	tyar	10
Kilp	-	Per Ash	and the second second			1				The state of the s	Adayar	
17	20	22	24	25	27 28	30	31 32	33	33 36	66.9	41	

CHILD WELFARE SCHEME

											Martine .
	hildren		No. of li When one y	1,185	394 1,317	1,616 965	340	1,009 528	759	1,567	883
			No. of livin old	810 159	318 1,168	1,395	301 521	858 489	451 1.282	1,402	703
r bir		ui	Out of Durs	232		19 42	::	::	154	::	63
year after birth.		IIə	w od ot bis2	143 24	76 148	202 246	39 276	151 39	154 396	168 47	117
one ye	əsiw.	or other	Left the city not traceab	53	30	289 107	5 123	101	96 194	129 29	123
1956 and kept under observation for a period of			dmun lstoT gnibulox9	171	• 38 130	317 72	32	157 67	133 249	275 43	98 132
a per		o 12 iths	Not Traceable	33	22	70 68	23-	19	41 80	21	25.
n for		10 to 12 months	Died	29	471	55 8	49	17 8	11 36	421	14
/atio		9 ths	Traceable Traceable	007	17	70 8	23	53	17 20	30	23
bserv	-	7 to 9 months	Died	4 23	27	62 11	15	33	22	58 7	16
er o	E.	6 ths	Not Traceable	13	16	624	27	19	31	38	18
pun	within	4 to 6 months	Died	33	9 27	77 11	326	34 18	51	9	31
kept	Died	o 3 ths	Not Traceable	9		30		11	86	.1	11
and		2 to 3 months	Died	53	321	10	44	29 8	39	44	31
956		days to month	Vot Traceable	::	:w	16	ω4	ю <del>–</del>	21	= :	99
		8 day 1 mo	Died	30	10	30	6	25	18	34	13
le ye		1 to 7 days	Vot Traceable	. :	14	41 21	38	. 20	33	1	13
in th	1	1 t da	Died	43	28	45	34	19	31 45	43	32
born	births	Ilits fo 1	Total numbe by 1956	33	29	76	15	27	12	67 8	30
Infants born in the year	sinsin	9	dmun lstoT born in 1956	1,442	466 1,559	2,298 1,166	379 1,046	1,294 612	1,000 2,172	2,038	1,118
Ing In		nd l	122 14	:::	::		::			::	11:
WELFAKE SCHEM Statement showing	1								Chool	::	
nt sh		tre	inis.	ppan	et	E	pet	ar	tsin me, (	ur	
LFA		Centre		Kul	yanp	enpe di	cken	Baza	an Ba y Ho	pe	am
Sta	18			Tondiarpet Palmyrah Kuppam	upura	herm	unai ge T	wal	eley	Pulianthope North Perambur	biam
CHILD WELFAKE SCHEME Statement showing I	Adayar	doin of the		Tond	Royapuram Sanjivirayanpet	5 Washermenpet 6 Vyasarpadi	7 Peddunaickenpet 8 George Town	9 Kothwal Bazaar 10 Muthialpet	11 Treveleyan Basin 12 Maternity Home, Choolai	13 Pulianthope 14 North Perar	15 Sembiam 16 Ayanavaram
Ð	1	ONIT	sinos Seria	1-11	w4	00	8-1	10	12	14	15

415 196	337 863	121 399	85 118	305 260	539 96	892 417	967 83	454 470	450 1,556	351 111	276 390	24,742
318 178	294	144 179	68 104	248 202	464 75	638 378	809 71	393 429	446 1,060	344 96	251	19,762
	::	258	::	:;	::		::	::	215	::	1:10	050
90 18	43 158	27 62	17 14	57 58	75 21	186 39	158 12	61 41	281	15	25	3,930 1050
33	20 87	12 92	·	9	84 7	118	108	38	22 275	10	30	2,507
49	50 83	30 45	12	38 42	62 10	108 47	117 10	67 49	58 204	36 13	27 62	3,308
. 3	38	25	::	-12	40	38	34	18	138	142	:00	932
40	9	1-4	- :	124	13 1	16	17 1	94	22	- ;	::0	440
5	421	17	::	-6	16	30	31	40	28	20	:-4	450
000	25	80	0m	50		16	20	66	242	40	:44	581
	95	140	::		14 1	24	15	16	11 33	ω :		403
11	15	4.61	50	~~	4	10	33	14	11 39	94	13.7:	682
	40	22	::		9	12	6	10	5 15		:::0	233
17 00	12	ω <b>4</b>		15	15	11 6	18	16	11 41	40	:0 41	545
:::	v 4	:6	::	::	::	w4	5 :	14	14	10:	:- m	146
64	4 ∞	6.3		45	64	15	18	10	20	1.028	0.03:	373
::		:0	-:-	:∞	∞ :	6	14	. :		10	• : :9	343
12	12 10	20	40	40	- 00	28	16	17	15 58	13	:43	687
12	25	10	20	ω4	9	33	50	16	12	3.1	:** 11	710
509	410 1,058	223 545	99 138	349 312	694 114	1,151 487	1,211	575 571	544 2,114	408 143	315 493	31,267
- 11	::	::	::	::	::	::	212	:0:	ome	: :		niplican
17 Kilpauk 18 Nammalwarpet	19 Kosapet 20 Purasawakkam	1 Periamet 2 Ashok Vihar	3 Edapalayam 4 Park Town	25 Napier Park 26 Egmore	27 Chetpet 28 Nungambakkam	29 Kodambakkam 30 Royapettah	31 Triplicane 32 Zam Bazaar	33 Mirsahibpet 34 Mylapore	5 Teynampet 6 Saidapet Maternity Home	37 Thiagaraya Nagar 38 Saidapet Sub-Centre	39 Guindy 40 Mandavalli 41 Adayar	Total
12	51 R H-2	57	23	22	27	aw.	n n	mm	35	e e	4143	T

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# Showing causes of deaths among Infants born in 1956

	born	ths	rths	N	leo-] dea				In	fec	tio	uso	lise	eas	es	F	eve	ers	Re	seases spirat Syster	tory
Centre.	Number of Infants born in 1956		Number of still-births in 1956	Pre-maturity	Asphyxia Neo-Nuturn	Birth injuries	Congenital Malforma- tion and complications	Others	Cholera	Small-pox	Diphtheria	Measles Enteric fever	Anterior Poliomyletis	Meningitis	Others	Malaria	Kalaazar	Others	Tuberculosis of lungs	Pneumonia	Others
1 Tondiarpet 2 Palmyrah Kup-	1,442 214	1,409 211	33 3		 1															 1	
pam. 3Rayapuram 4Sanjivirayanpet 5Washermenpet 6Vyasarpadi 7Peddunaicken-	466 1,559 2,298 1,166 379	462 1,530 2,222 1,144 377	29 76 22	11 16 27 8 14	10 11 14		22		····	 7 2					3		••••	11 2 2 3 2	···· ···	3 29 73 3 4	 1 
pet. 8George Town 9Kothwal Bazaar. 10Muthialpet 11Treveleyan Basin 12Maternity Home,	1,046 1,294 612 1,000 2,172	1,031 1,267 600 988 2,121	27 12 12	26 16 10 19 23	3	1		1 1  8 9		2				1	5			22		25 33 11 10 40	-
Choolai. 13 Pulianthope 14 North Perambur. 15 Sembiam 16 Ayanavaram 17 Kilpauk	2,038 381 1,118 1,281 509	1,971 373 1,104 1,251 497	8 14 30	35 5 15 15 6	4	3		 9 16		2					2			30 9 4 5 12		45 2 7 14 5	
18 Nammalwarpet 19 Kosapet 20 Purasawakkam 21 Periamet 22 Ashok Vihar	237 410 1,058 223 545	231 407 1,033 213 536	6 3 25 10 9	11 10 5 7 3		5 1 1 1				1					4			 7 3 11 12		14 5 2 1 2 3 2	
23 Edapalayam 24 Park Town 25 Napier Park 26 Egmore 27 Chetpet 28 Nungambakkam	99 138 349 312 694 114		2 3 4 9 1	4 1 8 2 3		1		3		· · · · · · · · · · · · · · · · · · ·					1			14  8 1		2 1 2 8 7 1	
29 Kodambakkam 30 Royapettah 31 Triplicane 32 Zam Bazaar 33 Mirsahibpet	1,151 487 1,211 101 575	1,111 479 1,19 99 559		9 15 1 15		4 8 3 1 3	· · · ·	1		. 2	···· ···				33			15 12		13 8 14 1 8 3	
34 Mylapore 35 Teynampet 36 Saidapet Home 37 Thyagaraya- nagar. 38 Saidapet Sub-	571 544 2,114 408 143	2,03	2 12 5 79 7 11	9 54 6	1:	3	2 6		3 1	1								6		3 53 2 4	
Centre. 39 Guindy 40 Mandavali 41 Adayar	315 493	30 482	7 8	 5 15				in the second	2001010									3		 1 21	
Total	31,267	30,55	710	472	14:	5 8	8 17	79	2	226	-	-	-	1 2	2 53	3 -	20	213	1	461	5

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#### Diseases Number of living children city when on year Total number of living Children when one year Disea-Diseases of Diseases of Deficises of A otherwise of General Total number of deaths limentary Nervous ency Urinary causes System System liver diseases excluding still-births System etc. Tetanus T.B. Meningitis Septicema and Pyaemi Causes unknown 60 Left the city or Syphylis Out of division Said to be well Accidents, Injuries, Scorpion stin 0 Snake bite or Other causes Malnutrition traceabl Convulsion Dysentery Nephritis DIAITING Cirrhosis Congenital Rickets Others in the Others Others Others Others not plo old 171 53 143 232 810 1,185 .... ... ....... ... 22 2 10 ....... ................ ....... 6 24 159 183 . . ... ... ... ...7 38 30 12 22 76 318 394 ... ... ........ 45 15 35 2 2 ... 83 1 1 130 .......... 1 10 ..... 148 1 1.168 1,317 .... .... ... 317 72 32 25... 4... 13 .... 4 289 202 12 .......... 19 1,395 1,616 .... .... ... 1 .... 107 246 1 ... 4 ......... 677 965 ... ... ..... ... ... ... 4 1 .......... 4 ... ... ... 5 39 ....... 301 340 ... 1 .... ... ... ..... ... 2 34 2 1 1 .... 123 1 1 ....... 211 111 276521 797 ... ... ....... .... ... 47 28 30 18 1 4 ... 157 151 11 2 101 858 ........ ............. 1,009 ... ... ... ... 2 5 ... ... ... 7 ... ... ... 1 3 ... ... ... 67 39 528 759 5 1 .... .... ..... 489 ... ... ... .... 15 150 4 96 154 10 ... ... ... 133 4 1 451 1 ... .... ... 194 396 01 17 ....... 244 11 ... 12 1 6 ... 1,678 ...... 1,282 ... ... ... ... 21 ... 24 5 15 .... 5 .... 1,567 301 20 .... 5 10 ... ... 275 129 60 2 165 1,402 ... ... ••• ...... 3 254 703 13 27 50 29 2 ... 7 ... 43 47 ... ... ... ... ... ... ... ... ... ... ... ... 2 3 ..... 123 98 1 11 ........ 117 63 883 ... ... ... ... ... ... 100 11 7 ... 132 172 5 ....... 62 1785 6 .... 1 ....... 1,019 ... .... ... ... 23 33 13 1 ..... 49 90 7 2 .... 4 ......... 318 415 ....... ... .... ... ... 25 50 10 18 178 10 196 .......... ....... ..... 3.... .. ... ... ... ... ... 20 19 2 ... .. ... ... 1 43 294 337 ... ... ....... ... .. ... ... ... ... 6 ...... ... 8 83 87 158 33 ....... 705 863 1 ... ... ... ... ... ... ... ... 5 2 ... ... 1 30 12 27 3 ..... .... ... ... 144 171 ... ... ... ... ... ... 92 18 3 ... ... 1 ... 158 399 ... ... ... .... 45 62 179 ... ... • • • ... ..... ... ... 12 17 17 ...2 68 85 1 .............. ....... 4 .... ... ... ... ... ... ••• ... ... ... 136 7 1 ... ....... 14 104 118 ... ... ... ... ... ........ ... ... ... ... ... .... 2 ... ... ... 2 45 38 57 10 248 305 3..... ... ... ... ••• .... ... 58 75 7 2 42 202 260 ..... ... ... ... ... ••• 22 84 4 ......... 6 ... 4 ... 2 .... 62 464 1 539 ... ... ... ... ... ... 6 1 2... 5 1 10 21 75 96 .......... .... .... ... ..... ••• ... ... ..... 34 4 ... 2 ... ..... 4 108 118 186 68 638 892 ..... ••• ... ... .... 2... 1... 13 29 47 15 39 378 417 .... ..... .... ••• ... ... ... ... 511 12 ... 4 ... ... ... 108 117 158 809 967 ...... .... ... ••• ... .... ... 2 1 ... ... 1 1 ....... 10 6 12 71 83 1 ... .... ••• ••• ... ... 3 ... ... ... 18 12 15 34 3 ... 1 67 38 61 393 454 3 .... ... ..... 1 ... ... ... ... .... • • • • 36 3 1 ... ....... 1 49 41 429 470 ... .... .. ... ... ... .... ... ... 2...... 9...... 1 ....2 22 2 ... 58 12 ... 1 4 446 450 •• ..... ... ... 275 5 7 11 .... 281 215 ......... 204 1,060 1,556 ... ... ... ... 2 2.... 1 36 344 5 .............. 10 351 ... .... .... ... ... ... 15 16 96 111 4 1 ... ... ... ... ... ... ... 1 ... ... ... ... ... 5 25 1 ... 251 276 8 2 ... 1 .... .. ••• •• •• 5 ... 3 29 295 1 1 ... 1 1 62 30 66 390 6 4 ... ... ... ... ... ... 152 7 512 132 1 6 727 1 22 01 3308 2507 3930 1050 19,762 24,742 152 16 16 ... 944 .... 3.1 110 200

nd kept under observations during 1st year of Life

No.	u - ont	246	Antonia Busoj	Atter	ndance	at Clin	nics	Discu-	2000 20 30 27481	mce	endance
Serial No.	Centre	Jnfa	nts	Pre-Sc	hool	Expe Moti		Nur Mot	sing hers	Fotal New Attendance	Total Old Attendance
A Harris		New	Old	New	Old	New	Old	New	Old		Total
2	Tondiarpet Palmyrah Kuppam	2,155 599	7,258 1,023	679 75	1,498 29	1,332 554	2,830 531	3,191 680	8,371 860	1,908	19,957 2,443
4	Rayapuram Sanjivirayanpet Washermenpet		1,054 5,188 11,199	70 809 303	19 605 216	987 1,260 2,124	644 1,866 4,433	790 2,258 3,268	978 5,238 11,298	2,530 6,572 8,634	2,695 2,897 27,146
117	Vyasarpadi Peddunaickenpet	1,493 1,143	6,016 2,798	- 384 191	835 127	1,030	2,626 1,274	2,128 1,405	6,717 2,871	3,769	16,194 7,070
9	George Town Kothwal Bazaar Muthialpet	2,567	7,488 8,510 7,181	638 739 286	1,130 1,313 504	1,151 1,192 1,385	3,132 2,650 2,568	2,280 3,535 1,856	8,004 8,841 7,010	8,033	19,754 21,314 17,263
	Treveleyan Basin Maternity Home,	10112	7,146	1,202	1,688		2.286		6,730	1.25	17,850
14	Choolai Pulianthope North Perambur Sembiam	2.359	11,641 3,160 1,199 5,152	848 691 278 297	653 554 132 136	1,838 800	4,816 1,977 860 2,167	5,308 2,475 828 2,842	12,556 3,397 1,245 5,300	12,977 7,363 2,650 7,067	29,666 9,088 3,436 12,755
17	5 Ayanavaram 7 Kilpauk 8 Nammalwarpet	1,408	7,492 3,972 1,988	738 570 403	799 411 477 43	I,365 743 601	3,419 1,126 870	3,185 1,656 917	3,546 1,954	4,377 2,754	19,710 9,055 5,289
20	Kosapet Purasawalkam	2,110	1,440 5,653	118 738	420		982	1,098 2,189	4,736		3,724 11,791
2:22	Periamet Ashok Vihar Edapalayam Park Town Napier Park	1,877 519 538 821	861 3,612 882 1,385 1,359	325 1,823 293 422 116	190 1,706 233 583 62	636 263 293	411 1,231 469 721 1,572	523 2,701 655 607 998	4,450 905 1,419	1,811 7,037 1,730 1,860 2,893	2,489 4,108
2222	6 Egmore 7 Chetpet 8 Nungambakkam 9 Kodambakkam 0 Royapettah	1,822 417 1,994	1,562 6,981 563 9,446 1,846	505	183 3,413 23 1,169 84	755 524 1,400	1,012 2,442 426 3,980 1,362	1,614 478 2,683	5,715 571 9,963	2,401 5,715 1,486 6,582 3,134	1,583 24,558
333	1 Triplicane 2 Zam Bazaar 3 Mirsahibpet 4 Mylapore 5 Teynampet	749	1,715	222 100 326	448	641 732 1,105	1,665	850 1,515	1,167 1,188 1,639	2,315 2,426 4,454	3,630 5,467
3334	6 Saidapet Maternity Home 7 Thyagaraya Nagar 8 Saidapet Sub-Centre 9 Guindy 0 Mandavalli 1 Adayar	1,261 646 263 1,334	13,230 1,002 1,588 491 1,651	230 126 227 276 335	74 177 347 480	2,104 839 766 148 630	3,030 1,058 1,103 208 1,461	2,579 1,497 773 337 1,291	12,954 1,127 1,557 555 1,434	7,523 3,723 2,412 1,024 3,590	29,453 3,261 4,425 1,601 5,026
6.74	of sation of the start of the sati	62,261	-,	man in	-			-			

Statement Showing the Total Number of Attendance of Expectant

Home			51	der Ca	Diseas	es Tre	ated (]	New)				
Grand Total	Respiratory	Alimetary	Skin Affection	Influenza	Ear and Eye Diseases	Anaemia	Vitamin deficiency	Malaria	Normal	Other Diseases	Total	Solis Muthod
27,314 4,351 5,225 19,469 35,780	575 230 191 957 795	500 206 228 687 822	106 63 61 111 421	138 56 82 365 667	31 19 21 29 358	904 76 129 560 886	398 33 58 21 679	1 1 16 7	3,841 1,050 1,494 3,383 2,318	864 174 265 443 1,681	7,357 1,908 2,530 6,572 8,634	
21,315 10,839 29,445 25,347 22,747	667 464 511 857 1,191	656 345 602 1,223 1,139	102 70 48 91 152	92 125 335 1,148 518	38 27 5 43 44	343 387 145 887 666	209 178 307 246 288	6 21 54 118 —	1,438 1,743 3,019 3,147 608	1,576 424 698 337 760	5,121 3,769 5,691 8,033 5,484	
25,683	2,210	1,315	163	343	162	412	159	9	1,914	1,155	7,833	
42,643 16,451 6,086 19,822	2,017 1,646 388 285	2,179 1,207 378 611	459 416 118 163	2,114 979 137 626	333 428 9 —	1,170 633 151 260	1,031 288 137 137		1,072 910 791 3,606	2,593 860 541 1,379	12,977 7,363 2,650 7,067	
27,264 13,432 8,043 7,035 17,532	977 446 318	7,654 644 359 526 848	528 571 121 92 215	696 575 186 98 469	391 240 10 39 76	198 226 141 226 248	165 162 165 124 106	3 2 15	479 628 850 1,433 1,063	591 354 473 455 1,287	7,554 4,377 2,754 3,311 5,741	
3,978 18,036 4,219 5,968 7,419	908 347 407	933 217 345	116 284 63 100 92	56 1,127 71 128 124	24 111 32 31 14	108 153 156 138 310	131 112 87		344 1,965 507 402 845	265 1,210 225 219 466	1,811 7,037 1,730 1,860 2,893	
6,429 24,266 3,069 31,140 8,088	584 154 340	1,015 149 1,873	96 842 24 233 108	107 247 68 468 214	221 2 62 3	233 223 151 267 318	135 79 191	16 9	191 852 758 2,605 1,061	644 1,596 99 527 377	2,401 5,715 1,486 6,582 3,134	18.3533
31,335 6,109 6,056 9,921 8,294	627 261 886	468 452 689	117 110 59 390 368	439 86 157 509 256	31 2 8 39	441 192 178 201 500	116 883	-	3,200 150 873 404 1,271	328	6,348 2,315 2,426 4,454 4,642	
36,976 6,984 6,837 2,625 8,616 8,612	580 160 163 705	399 243 144 558	99 248 77 55 310 208	314 287 110 151 478 580	13 56 7 43 1 283	577 527 281 73 73 409	512 110 60 669		364	212 210 432	7,523 3,723 2,412 1,024 3,590 4,293	1012818104
6,30,880	26,812	20,015	8,070	15,830	3,286	14,157	10,122	321	57,403	28,113	1,94,125	

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and Nursing Mothers and Children at the Out-patient Clinic in 1957.

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STATISTICS SUPPLEMENT No. 63

Annual Return-Maternity and Child Welfare-from

		(wa)	th bri	Bro	ought u	nder C	Care			1	Home
Number	Centre		ty	U INO.					dical	H	lealth
Serial 1	That I	initali materia	Maternity	of Mothers	Ante-Natal	Labour	Infants	Pre-School	Women Medical Officers	Ante-Natal	Post-Natal
2 3 4	Tondiarpet Palmyrah Kuppan Rayapuram Sanjivirayanpet Washermenpet	n	100 000 000	1,812 585 999 1,260 2,124	1,332 554 987 1,260 2,124	1,470 226 387 1,539 1,995	1,439 220 383 1,509 1,920	1,185 183 394 1,317 1,616	711 267 487 397 429	  19 12	66 188 282 22 27
7 8 9	Vyasarpadi Peddunaickenpet George Town Kothwal Bazaar Muthialpet		1256	1,529 1,042 1,151 1,381 1,551	1,116 1,030 1,151 1,192 1,385	1,024 390 1,019 1,072 1,007	1,002 382 999 1,047 988	965 340 797 1,009 528	323 269 679 1,191 702	 10 22  55	528 103 9 61 141
12 13 14	Treveleyen Basin Maternity Home, Pulianthope North Perambur Sembiam	Choolai  	137	1,694 2,384 2,037 871 1,528	2,384 1,838 800	1,136 3,050 1,024 360 1,345	1,112 2,961 989 351 1,311	759 1,678 1,567 301 883	705 901 785 305 489	 _20 _262 77 2	28 35
17 18 19	Ayanavaram Kilpauk Nammalwarpet Kosapot Purasawalkam		124	1,365 953 693 1,109 1,099	827 601 1,106	1,307 596 293 372 1,118	1,257 582 282 364 1,100	1,019 415 196 337 863	698 469 317 416 470	 42 57 	617 332 25 6 524
222	Periamet Ashok Vihar Edapalayam Park Town Napier Park	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	132	364 704 287 616 1,290	636 263 293	789 69 106	144 773 69 105 365	171 399 85 118 305	288 139 331 194 505	11 512 22 165 91	40
21	6 Egmore 7 Chetpet 8 Nungambakkam 9 Kodambakkam 9 Royapettah		191	1,068 1,205 623 1,729 1,137	755 524 1,400	671 138 1,353	664 135 1,315	260 539 96 892 417	348 266 348 814 634	 9 26 	86
3.3	1 Triplicane 2 Zam Bazaar 3 Mirsahibpet 4 Mylapore 5 Teynampet	111+ 1204 12704 1271	116 883 410	1,728 901 966 1,128 1,236	641 732 1,105	323 404 583	319 401 568	967 83 454 470 450	575	  	65 19 73 60 516
3334	6 Saidapet Materni 7 Thyagaroya Nag 8 Saidapet Sub-Cen 9 Guindy 0 Mandavally 1 Adayar	ar	100 60 60	2,204 942 862 162 656 430	839 766 148 630	355 116 74 337	347 115 73 331	1,556 351 111  276 390	470 378 218 523	 16  12	43 19
-	1.94,125	Total	001		41,020	-				0.000	12,995

# 1st January to 31st December, 1957

Visits	1932	ent.	Roll			Clini	ics	to Low	Nash	Maternal	Mortality
Visitor	s	Midv	vives		2	Attend	ance			and Mo	rbidity
Infants.	Toddlers	Ante-Natal	Post-Natal	Number Held	Ante-Natal	Number Held	Post-Natal	Number Held	Infants and Toddlers	Mortality	Morbidity
6,209 3,326 3,275 3,559 4,892	687 200 456 815 1,640	2,344		157 584 1,027 155 115	1,600 1,085 1,631 3,126 2,124	51 80 52	234 1,540 1,768 142 ,208	104 358 339 104 78	791 1,726 1,826 726 888	1	490 60 125 341 603
2,783 2,682 4,109 5,234 6,801	809 559 687 798 712	1,010 1,411 607 1,736 1,002		144 104 157 152 156	3,742 1,215 1,151 1,614 1,765	149 52 52 52 105	8,845 233 253 345 434	89 52 104 104 156	8,728 767 991 1,398 985	 2 1	110 211 115 492 206
4,227 6,380 3,301 1,206 2,318	446 1,504 1,597 385 813		3,726 10,167 11,103 4,081 7,338	155 156 108 152 128	3,129 2,947 3,815 1,660 1,528	46 49 100 74 39	284 451 5,872 425 112	119 95 160 115 92	1,307 1,184 6,764 476 395		145 534 507 155 114
4,136 3,685 1,427 1,344 4,354	767 608 203 294 705	1,385 844 1,137 1,027 153	5,485 3,572 2,953 5,019 4,529	149 157 152 155 140	2,315 1,869 1,471 2,198 1,686	40 52 75 68 48	259 120 112 172 145	90 103 115 109 100	1,021 6,361 819 638 9,821		514 75 153 186 353
993 1,095 1,764 1,718 2,172	304 115 124 139 351	592 415	1,423 1,621 1,108 1,718 3,575	157 47 104 101 106	771 636 358 293 958	29 93 52 46 47	49 197 58 80 173	93 72 52 46 47	502 440 336 327 613	1 Tri 109	146  40 16 71
1,768 1,888 1,158 1,302 1,247	167 297 173 3 449	640 1,625 583 849 966		104 157 105 148 105	1,652 755 482 1,400 1,316	52 52 49	121 231 84 351 4 286	47 103 52 101 52	622 618 290 1,563 697	1 Tro i Scot	37 137 42 242 98
3,614 1,979 1,175 2,524 1,460	384	1,222 1,089 704	3,086	153 104 105 104 101	1,728 1,944 1,018 1,105 1,087	52 52	467 128 217 148 292	104 52 52 52 52 52	1977 456 563 612 910	NY	425 31 73 170 49
3,044 1,623 1,713 1,485 1,961 3,033	803 513 420 64 261 316	576 295 536	756 2,368 740 2,237	157 101 104 52 104 157	2,104 839 1,869 356 630 629	52 52 52 52 52	412 295 130 23 136 70	104 52 52 52 52 52 105	939 1,052 562 267 593 785		314 51 31 26 155 83
		-	171801	6.579	63,601	2.274	35,902	3,983	61,436	30	7,726

FAMILY PLA	NNING	STATISTICS	SUPPL	EMEN	T No. 65
PART TIME:	Clinics opened at :-				
1. G	eorge Town			on	1-8-1952
	ashermanpet			,,	1-8-1952
	hoolai Maternity Hor	ne			1-8-1952
	shok Vihar			,,	7-9-1953
FULL TIME :	Clinics Inaugurated	on 11-8-1955			
., .,	Functioning from	n 1-9-1955			
at 1. V	yasarpadi Child Welf	are Centre		6th	Division
	eorge Town ", "			9th	2
	hoolai Maternity Ho	me		17th	"
4. C	hetpet Child Welfare	Centre		33rd	,,
5. T	riplicane " "			38th	,,
6. S	aidapet Maternity He	ome		47th	"
PART TIME	: Clinics functioning	g from 1-9-19	55		
1. T	ondiarpet Child Wel	fare Centre		lst	Division
	Vashermanpet "			5th	
	reveleyen Basin "	1 12 1 1- 7		16th	.,

#### CHILD WELFARE CENTRES

4. Ashok Vihar

#### STATISTICS SUPPLEMENT No. 66

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26th

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List of Child Welfare Centres where Serological examination of blood of Ante-natal cases are conducted.

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	Examination of blood Conducted from
Choolai Maternity Home	27-9-1951
Saidapet	Dec. 1951
Sanjiviroyanpet C. W. Centre	May 1952
Triplicane	27-5-1952
* Pulianthope	1-5-1953
Washermanpet	7-5-1953
George Town	1-4-1954
Purasawalkam	1-4-1954
Treveleyen Basin	1-4-1954
** Sembiam	1-4-1954
Ayanavaram Maternity Home	22-10-1955
Tondiarpet C. W. Centre	1-10-1957
Kothwal Bazar	1-10-1957
Vyasarpadi	1-10-1957
Sembiam	1-10-1957
Kodambakam	1-10-1957
Adyar	1-10-1957
* C. W. Centre where Serological exam Conducted upto	ination of blood was 30-9-1957
** C. W. Centre where Serological exam conducted upto	ination of blood was 21-9-1955

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											8	6								
101-2-410 301-2-410400	Date of opening	7-7-1923	24-9-1923	3-3-1958	31-1-1956	5+1-1949	19-7-1958	9-10-1929	1-8-1955	14-9-1956	25-10-1941	4-8-1924	10-3-1948	28-11-1946	10-2-1040×	30-3-1955	17-4-1957	11-2-1946	31-10-1947	4-6-1957 14-11-1941 29-12-1951
30	Beds		9	1	8	12	8	1	11 28	OPT I	1	1	19	50	11		1	1	9	Bedis
82305 #055	Phone No.	86519	84599	V-1304	86580	88469	01000	8 6 6 4 4	86505	84706	86947	86570	88158	88265	61302	HACE .	- 00- H-	71614	71427	2146 84599
. 28	Dvn. No.	-3126	33	. 33	34	35	. 36		. 38	. 42	43	44	46	47	0 5			50	50	
Child Welfare Centres and Creches-(contd.)	Vient Viention Continue	37, Langs Ganden Road, Pudupet	27, Jaganathapuram, 2nd Street, Chetpet	46, Aziz Mulk 3rd Street, Thousand Lights	15, Noore Veerasamy Iyer St., Nungambakkam	68, Arcot Road, Kodambakkam	16, Ragaviah Road. T. Nagar	84, Lloyds Road, Royapetah	8, Nyniappa Maistry Street, Triplicane	24/25, Surappa Mudali Street, Zam Bazaar	65, Dr. Besant Road, Triplicane and		ry		3, Sivagnanam Road, (Corporation Dispensary	5 mb	6, Perumal Koil Street, Guindy, Kottur Village	34, Brodies Road, Adayar	44, Vasantha Press Rd., Arunachalapuram, Adayar	Royapuram Child Welfare Centre. Bunder Rama Naicken Garden, Broadway Child Welfare Centre, Chetpet.
Child W	Name of Division	Komaleeswaranpet	Thousand Lights	Thousand Lights	Nungambakkam	Kodambakkam	T. Nagar (North)	Rayapettah	Pudupakkam	Zam Bazzar	Mirsahibpet	Mylapore North	Teynampet	T. Nagar South	T. Nagar South	Saidanet mehanber	Guindy	Adayar		Rayapuram Broadway Chetpet
e Park Lown	Serial Name of No. Centre	[I]	Chetpet	Thousand Lights	Nungambakkam	Kodambakkam	T. Nagar (North)	Rayapettah	Triplicane	Zam Bazaar	Mirsahibpet	Mylapore	37. 3 Teynampeti Basson	S	39. T. Nagar (South)	An Soldanat a cultar	41. Guindver	42. Mandavalli	43. Adayar arber	AO'Creches':16 Lisi Mame of
17 19	Serial No.	26.	27,	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40	41.	42.	43.	H-H

al Total I Total Women Ses. contacted.		271 345	268 390	(q) qe 261 2.292	334 409	304 336	1 710
Total revisits Houses.			2	(0)	here 1		TAIA
No. of Women contacted for follow up.	36	311	59	(P) 9	and JT (mu	18 18	150
No. of No. of houses K. G. H. visited for patients follow up of contacted actually follow up, following up.	36	11	53	13	18	21	152
f Nd La Nd L	50		13	+	T		a lun
No. of K. G. H. patients contacted for for	28	22	şII	43	4 4	24	132
Houses visited for Follow up of K. G. H. Patients.	38	32	14	iten 61	Arepaud Ru	33	183
Women contacted for propa- ganda.	281	323	320	240	388	294	1,846
Houses visited for propaganda lst visit.	200	228	201	187	partie 311	. 250	1,377
Mame of the Clinic.	Royapettah	Zam Bazaar	Triplicane	Mylapore	Mandavalli	Mirsahibpet	Total

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OUT PATIENT STATEMENT-PUDUPAKKAM FAMILY PLANNING SCHEME

130

2 2 2	No. of patients	No. of pation ap	of patients actually adopt non-appliance methods in Family Planning.	ing		No. of ing a	No. of patients actually adopt- ing appliance methods in Family Planning.	ctually methods	adopt- in	No. of puer-	No. of	No. of No. of	Total attendan-
Name of the Clinics.	general on Family Planning.	Safe period method l	Husband careful method 2	nentary caution ethod 3	10tal.	Diaph ragm. (a)	Preception.	Foam tablets. Total. (c) (d)		sterilisa-ctomysits to tions done. clinic.	vase- ctomy done.	done. clinic.	ce of new cases to clinic.
Royapettah	310,01	1 330	7	5.11	13	IIN	120	9	2	In		83	331
Zam Bazaar	19038		233	335	5		2	1	3	1	- 2	:	661
Triplicane	41100	19261	3	38	59	36	490	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12	liN			482
Mylapore	164 181 A 1810	2 Banqu	PRUSERS	ton is ab	103.00	state ab	2	1	e	1 Trunnen	:	:	171
Mandavalli	189	Lon Monicu	a bound I	а с	0.40	suit.	Nonce al	10 Bion	6 21	Control Control	undi enoli	···· 1	0.31
Mirsahibpet	219	3	4	1 1	~		I		1				228
HO Total La 483 DE	-	26	MIIS 282	OE SI DDD	92	KAL MA	UL IO PI	VV241V	35	HE TO	WE'N	NUN	/8 1,613



