

## **Annual report of the Health Officer for the City of Rangoon.**

### **Contributors**

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**CORPORATION OF RANGOON.**

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**ANNUAL REPORT**

**OF**

**THE HEALTH OFFICER**

**For the City of Rangoon**

**For the year 1933.**

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THE RANGOON TIMES PRESS.

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*With the Compliments*  
*of the*  
*Health Officer.*





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To

THE COMMISSIONER,

CORPORATION OF RANGOON.

SIR,

I have the honour to submit my Annual Report on the Public Health and Sanitary Administration of the City of Rangoon for the year 1933 and the Vaccination report for the official year 1933-34, together with the reports of the Contagious Diseases and Observation Hospitals, and the Analyst's report on the working of the Laboratory for the year 1933.

I have the honour to be,

SIR,

Your most obedient servant,

J. HORMASJI, D.P.H.,

HEALTH OFFICER,

*Corporation of Rangoon.*

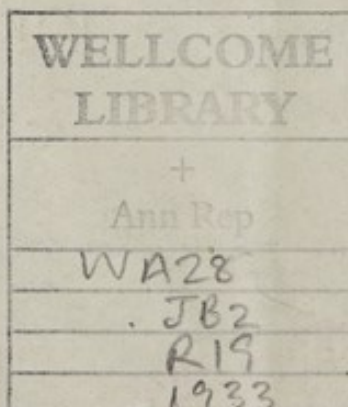
HEALTH OFFICE: }

*The 8th May, 1934.* }



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# SUMMARY OF STATISTICS

FOR THE YEAR 1933.

Population by the Census of 1931	...	...	...	400,415
Area of the City of Rangoon	...	...	...	31.94 sq. miles.
Number of live births registered	...	...	...	9,427
Birth-rate per 1,000 Census Population	...	...	...	23.54
Number of deaths	...	...	...	8,854
Death-rate per 1,000 Census Population	...	...	...	22.21
Number of deaths amongst infants under one year	...	...	...	2,423
Infant death-rate per 1,000 births	...	...	...	257.03
Plague—Number of deaths from	...	...	...	9
„ Death-rate	...	...	...	.02
Small-pox—Number of deaths from	...	...	...	14
„ Death-rate	...	...	...	.03
Cholera—Number of deaths from	...	...	...	5
„ Death-rate	...	...	...	.01
Influenza—Number of deaths from	...	...	...	6
„ Death-rate	...	...	...	.01
Tuberculosis—Number of deaths from	...	...	...	817
„ Death-rate	...	...	...	2.04
Respiratory Diseases—Number of deaths from	...	...	...	2,036
„ Death-rate	...	...	...	5.08
Cerebro-Spinal Meningitis—Number of deaths from	...	...	...	1
„ Death-rate	...	...	...	.002
Beri-Beri—Number of deaths from	...	...	...	75
„ Death-rate	...	...	...	.19
Diphtheria—Number of deaths from	...	...	...	11
„ Death-rate	...	...	...	.03
Cancer—Number of deaths from	...	...	...	53
„ Death-rate	...	...	...	.13
Puerperal Septicaemia—Number of deaths from	...	...	...	11
„ Death-rate	...	...	...	.03



# SUMMARY OF STATISTICS FOR THE YEAR 1938.

100,415	Population by the Census of 1931
31.04 sq. miles	Area of the City of Kingston
1,437	Number of live births registered
12.54	Birth-rate per 1,000 Census Population
5,864	Number of deaths
57.31	Death rate per 1,000 Census Population
2,473	Number of deaths amongst infants under one year
227.03	Infant death-rate per 1,000 births
9	Typhus—Number of deaths from
0.2	Death-rate
14	Small-pox—Number of deaths from
0.3	Death-rate
5	Cholera—Number of deaths from
0.1	Death-rate
0	Influenza—Number of deaths from
0.1	Death-rate
817	Tuberculosis—Number of deaths from
2.94	Death-rate
2,036	Respiratory Diseases—Number of deaths from
5.08	Death-rate
1	Cerebro-spinal meningitis—Number of deaths from
0.02	Death-rate
75	Scarlet fever—Number of deaths from
19	Diphtheria—Number of deaths from
11	Death-rate
0.3	Death-rate
52	Enteric—Number of deaths from
13	Death-rate
11	Purpural Septicemia—Number of deaths from
0.3	Death-rate

# REPORT ON THE PUBLIC HEALTH AND SANITARY ADMINISTRATION OF THE CITY OF RANGOON

*For the year 1933.*

## **Climatic Conditions.**

The total rainfall during the year was 103·70 inches which was below the average (106·74) for the past 5 years and 16·31 inches higher than that of 1932. The first rainfall was in March and it recorded 0·62 inches and the highest *viz*: 25·56 inches was in the month of June. January, February and December were dry months. In April, there was a rainfall of 3·95 inches and in May 13·44 inches. July, August, September, October and November's rainfall was 18·75, 14·32, 16·12, 7·14 and 3·80 inches respectively.

The maximum temperature varied from 85·41 degrees in June to 96·6 degrees in April. January's maximum temperature was 92·4, February's 92·4 and that of March 95·5.

As regards humidity, the lowest (78 degrees) was recorded in January and the highest (92 degrees) in July. The wind was blowing from the north-east during January, February, October, November and December and from the South in March. During the months of April, May, June, July and August, the wind was blowing from the south-west and in September, from the south-east.

## **Area and Population.**

The area of the City is 31·94 square miles including the Rangoon and Pegu rivers and the Pazundaung creek



The population at the Census of 1931 numbered 400,415, a decennial increase of 54,910. The estimated population of 1933 was 411,397.

### Public Health Administration.

For administrative purposes the Rangoon City has been divided into four divisions, *viz.* East-town, East Suburban Area, West-town and West Suburban Area, each division is under the charge of an Assistant Health Officer. The Assistant Health Officers are directly under the control of the Health Officer. These four divisions are further sub-divided into 20 sections for sanitary work each in charge of a qualified Sanitary Inspector; for R. B. work the City is divided into 6 circles each being under a Sanitary Inspector; four Sanitary Inspectors are posted for disinfection and ratting and 4 Sanitary Inspectors are posted to Anti-mosquito duty.

For Registration of births and deaths the City is divided into 16 circles.

### Births and Birth-rates.

The number of births registered as occurring in the City was 9,427, of which 4,879 were males and 4,548 females as compared with 8,988 births in 1932.

The birth-rate calculated on the total census population of 1931 was 23.54 per thousand as against 22.45 in 1932. The rate on the estimated population of 1933 was 22.91. The South Kemmendine Circle with a birth rate of 34.56 had the highest rate while the Cantonment Circle with a birth rate of 6.91 is the lowest.

Male births exceeded female births in the proportion of 107.28 to 100.

The following table gives the number of births and birth-rates for the various races:—

Races.	Number of births.	Birth-rates.
Burmese	3,555	28.91
Hindus	3,024	21.46
Mohammedans and Malays...	1,296	18.31
Chinese and Panthays	810	26.45
Anglo-Indians	340	34.66
Europeans	80	17.41
Other Classes	322	15.53

### Still-births.

711 still-births were recorded during the year. Of these, 328 were of Burmese parentage, 236 of Hindu parentage, 86 of Mohammedan and Malay parentage, 44 of Chinese and Panthay parentage, 9 of Anglo-Indian parentage and 8 of other classes.



The percentage of still-births to the total births in different communities works out as follows:—

	Number of births.	Number of still-births.	Percentage of still-births to births registered.
Burmese	3,555	328	9.23
Hindus	3,024	236	7.80
Mohammedans and Malays...	1,296	86	6.63
Chinese and Panthays	810	44	5.43
Anglo-Indians	340	9	2.65
Europeans	80	...	...
Other Classes	322	8	2.48
<b>Total</b>	<b>9,427</b>	<b>711</b>	<b>7.54</b>

Confinements in 260 cases out of 711 still-births, were supervised by unqualified Midwives or relatives.

### Deaths and Death-rates.

The total number of deaths registered in 1933 was 8,854 of which 5,424 were males and 3,430 females as against 9,875 deaths in 1932.

The death-rates for the years 1933 and 1932 on the census population work out at 22.11 and 24.66 respectively. The death-rate on the estimated population of 1933 was 21.52. Of the total deaths, 407 occurred amongst individuals not normally resident in Rangoon but who had come to Rangoon during their final illness and died here; excluding these cases the general mortality rate on the estimated population of 1933 comes to 20.53 per thousand. At the same time, it is necessary to make some allowance for the deaths of normal residents of Rangoon dying outside. The death-rate of 22.11 was the lowest recorded during the years 1901—1933 as will be seen from the following table.

Year.	No. of deaths.	Death-rate on census population.	Death-rate on estimated population.
1901	7,791	32.15	Census year
1902	7,885	33.57	32.49
1903	8,119	34.57	32.58
1904	8,476	33.61	30.84
1905	11,575	45.90	42.13
1906	11,996	47.57	42.62
1907	11,348	45.00	39.83
1908	10,488	41.59	36.12
1909	9,994	39.63	33.79
1910	9,278	36.79	30.8
1911	11,239	38.32	Census year
1912	10,348	35.28	34.61
1913	8,907	30.37	29.46
1914	9,770	33.31	31.86
1915	8,515	29.03	27.49



Year.	No. of deaths.	Death-rate on census population.	Death-rate on estimated population.
1916	10,597	36.13	33.76
1917	9,885	33.70	31.08
1918	15,411	52.54	47.84
1919	15,554	53.03	47.68
1920	12,140	41.39	36.75
1921	12,066	35.28	Census year
1922	12,323	36.04	35.53
1923	11,918	34.85	33.89
1924	11,448	33.13	32.11
1925	12,373	35.81	33.90
1926	12,231	35.40	33.04
1927	10,851	31.41	28.91
1928	11,690	33.83	30.71
1929	10,980	31.78	28.46
1930	9,541	27.61	24.40
1931	9,409	23.50	Census year
1932	9,875	24.66	24.33
1933	8,854	22.11	21.52

The number of deaths and death-rates on census population of various races were as follows :—

Races.	No. of deaths.	Death-rate.
Burmese	... 3,311	26.92
Hindus	... 2,871	20.38
Mohammedans and Malays	... 1,319	18.63
Chinese and Panthays	... 815	26.61
Anglo-Indians	... 148	15.09
Europeans	... 30	6.53
Other classes	... 360	17.36

### Infantile Mortality.

The total number of deaths among infants was 2,423 giving an infantile mortality rate of 257.03 as compared with 2,568 infant deaths with an infantile mortality rate of 285.71 in 1932.

Of the total number of infant deaths, 1,986 occurred among infants born within the City and the remaining 437 among infants born outside. Out of these 1,986 deaths of infants, in 1,134 cases, confinements were attended to by unqualified midwives, 496 by qualified persons, 222 by the Maternity and Infant Welfare Society and the remaining 134 cases were confined at the Dufferin Hospital.

In the year 1932, 8,988 births were registered in Rangoon town, of which 1,999 died at Rangoon before completing the first year of life giving a mortality rate of 222.41. Of these 1,999 infants, 732 died in the first month, 340 in the second month, 352 in the third month, 198 in the fourth month, 85 in the fifth month, 46 in the sixth month, 64 in the seventh month, 39 in the eighth month, 41 in the ninth month, 42 in the tenth month, 32 in the eleventh month and 28 in the twelfth month.



The following statement gives the causes of infant deaths, their number and infantile death-rate per 1,000 births for different races for the year 1933:—

Cause of death.	Burmese.	Hindus.	Moham- medans and Malays.	Chinese and Panthays.	Anglo- Indians.	Karens.	Shans.	Euro- peans.	Jews.	Armen- ians.	Other Classes.	Total.
Premature Birth ...	179	165	70	34	2	2	...	1	...	...	9	462
Malnutrition ...	61	87	32	14	2	...	...	...	...	...	11	207
Convulsions ...	297	144	66	44	9	7	...	1	...	...	18	586
Bronchitis and Pneumonia ...	204	235	88	72	15	3	...	1	...	...	50	668
Enteritis ...	32	40	12	2	...	2	...	...	...	...	6	94
Diarrhoea and Dysentery ...	39	48	21	14	2	4	...	...	...	...	10	138
Obstruction of Bowels ...	11	19	7	3	3	1	...	...	...	...	6	50
Marasmus ...	44	18	14	3	2	2	...	...	...	...	1	84
Whooping Cough ...	...	1	1	1	...	...	...	...	...	...	...	3
Fever ...	10	18	5	5	...	1	...	...	...	...	1	40
Diphtheria ...	...	...	...	...	...	...	...	...	...	...	...	...
Influenza ...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	...	...	...	...	...	...	...
Measles ...	1	...	...	...	...	...	...	...	...	...	...	1
Small-pox ...	1	1	...	...	...	...	...	...	...	...	...	2
Other Causes ...	32	26	9	9	7	1	...	...	2	...	2	88
Total ...	911	802	325	201	42	23	...	3	2	...	114	2,423
Infantile mortality rate per 1,000 births.	256.26	265.21	250.77	248.15	123.53	287.50	...	37.50	83.33	...	530.23	257.03



The following table gives the infantile mortality figures for the past five years :—

Year.	No. of births registered.	No. of infantile deaths.	Infantile death-rate.
1929	8,265	2,623	317·36
1930	7,974	2,218	278·15
1931	8,561	2,381	278·12
1932	8,988	2,568	285·71
1933	9,427	2,423	257·03

It is gratifying to note that the infantile mortality rate of 257·03 recorded in 1933 is the lowest for the last 30 years or so. It is hoped that still better results will be obtained in the near future.

Below is a statement of confinements of the 9,427 registered births, by qualified and unqualified persons :—

- 1,386 were attended to by qualified Medical Practitioners or Midwives;
- 2,042 were confined at the Dufferin Hospital;
- 1,617 were confined at the Maternity and Infant Welfare Society Shelters;
- 769 were confined by the Corporation staff;
- 3,591 were attended to by unqualified Midwives;
- 1 was attended to by friends or relatives;
- 18 births were registered by the Military Police Hospital; and 3 by the General Hospital.

Of the 3,592 births attended to by unqualified persons 991 were in the area where midwifery by unqualified persons is prohibited under the Burma Nurses and Midwives Amendment Act, 1927.

**The following table gives statistical summary of births registered for the past two years with their percentage rates :—**

	1933.	1932.
Total No. of births including still-births registered	10,138	9,681
Total No. of still-births notified	711	693
Percentage of still-births to total No. of births registered	7·54	7·71
Total No. of births excluding still-births	9,427	8,988
Total No. of confinements attended by qualified Doctors or Midwives	1,386	2,210
Percentage of confinements attended by qualified Doctors or Midwives	14·70	24·59
Total No. of confinements attended to by the Corporation Staff	769	977
Percentage of confinements attended to by the Corporation Staff	8·16	10·87
Total No. of children born in Dufferin Hospital	2,042	1,891
Percentage of children born in Dufferin Hospital	21·66	21·04
Total No. of confinements attended by the Maternity and Infant Welfare Society Staff	1,617	1,515
Percentage of confinements attended by the Maternity and Infant Welfare Society Staff	17·15	16·85
Total No. attended by relatives	1	4
Percentage attended by relatives	0·01	0·04
Total No. of births registered in Cantonment	3	3
Percentage of births registered in Cantonment	0·03	0·03
Total No. of births registered in Military Police Hospital	18	20
Percentage of births registered in Military Police Hospital	0·19	0·22
Total No. of confinements attended by unqualified Midwives	3,591	2,362
Percentage of confinements attended by unqualified Midwives	38·10	26·36
Total No. of births registered in General Hospital	3	6
Percentage of births registered in General Hospital	0·03	0·07



## Maternity and Infant Welfare Work.

After considerable discussion, the Corporation at its meeting held in December 1933 resolved to launch a scheme as an experiment for three years to begin with and decided—

(1) To relieve the Lady Health Assistants of all Dispensary work and Vaccination and Medical Inspection of girls in Municipal Schools, so as to enable them to devote their whole time to maternity and infant welfare work.

(2) To increase the number of Lady Health Visitors by 9.

(3) To open 4 infant welfare centres in place of the present 2. These centres will remain open both morning and evening on alternate days and work under the immediate supervision of the two Lady Health Assistants in their respective circles. Mornings are to be devoted Post-Natal work and evenings to Ante-Natal work. The Lady Health Visitors will carry on all the outdoor work and the Lady Health Assistants will go out only on special occasions.

(4) To place the Assistant Health Officers in charge of infant welfare work in their respective divisions and all staff to work under their instructions.

(5) To employ Nurse-Midwives mostly on confinement work and their duties are to be kept distinct from those of Lady Health Visitors.

The present staff consist of 2 Lady Health Assistants and 11 Lady Health Visitors and Nurse-Midwives. They continued to do useful work as in the past.

*Summary of Work.*—The following statements show the work done by the Lady Health Assistants, Lady Health Visitors and the Nurse-Midwives.

(a) Statement showing the work done by the Lady Health Assistants during the year 1933.

Months.	No. of confinements attended with Nurse-Midwives and Lady Health Visitors.	No. of visits paid for Ante-Natal work.	No. of visits paid for Post-Natal work.	Ante-Natal cases found during the month.	No. of cases sent to the Dufferin Hospital or to the Maternity Shelters.	No. of unregistered births detected.	No. of Schools inspected.	No. of lectures given.	No. of women and children (total attendance) treated by the Lady Health Assistants at the Corporation Dispensaries.
January	6	123	110	22	9	...	7	8	6,015
February	3	98	125	28	11	2	6	7	5,534
March	4	125	184	28	11	2	5	3	6,023
April	...	97	112	64	14	3	...	10	5,004
May	1	126	162	35	14	2	...	8	5,104
June	...	106	187	47	16	3	3	6	6,019
July	2	95	163	27	11	2	15	7	6,762
August	...	95	169	28	12	2	12	21	7,472
September	...	103	58	65	9	2	3	11	7,308
October	...	105	164	44	7	2	1	8	6,704
November	1	177	354	39	6	2	3	15	3,149
December	...	142	275	38	7	4	2	8	3,295
Total	17	1,392	2,063	465	127	26	57	112	68,389



(b) Statement showing the work done by the Lady Health Visitors and Nurse-Midwives during the year 1933.

Months.	No. of confinements attended to.	No. of visits paid for Ante-Natal work.	No. of visits paid for Post-Natal work.	Ante-Natal cases found during the month.	No. of cases sent to the Dufferin Hospital or to the Maternity Shelters.	No. of unregistered births detected.	No. of Vaccinations performed.
January ...	100	834	1,260	148	30	43	31
February ...	87	749	1,360	177	22	43	200
March ...	81	768	1,619	208	32	41	28
April ...	69	755	1,470	197	29	42	17
May ...	51	610	1,232	183	34	31	5
June ...	55	597	1,398	208	52	26	305
July ...	48	598	1,309	202	27	38	389
August ...	58	691	1,362	211	65	32	518
September ...	62	659	1,301	188	36	23	57
October ...	48	662	1,460	198	38	30	30
November ...	61	651	1,941	178	42	45	27
December ...	49	672	2,316	153	31	22	451
Total ...	769	8,246	18,028	2,251	438	416	2,058

(c) Statement showing free distribution of milk to poor mothers and infants through the Clinics.

	Infants attended the Clinics.		Mothers provided with milk.		Milk distributed.	
	1933.	1932.	1933.	1932.	1933.	1932.
Theinbyu Clinic ...	736	462	127	168	lbs. 6,030	lbs. 1,585
Forest Road ,, ...	95	78	78	56	2,466	897
Total ...	831	540	205	224	8,496	2,482

### Cholera.

6 cases of Cholera with 5 deaths were reported during the year. The corresponding figures for the previous year were 7 cases with 3 deaths. Of the total number of cases reported, 3 were ascertained to have been imported. 5 cases were treated in the Contagious Diseases Hospital of which 4 died giving a case mortality rate of 80'00 per cent. One case



was treated at home and the patient died. The death-rate per 1,000 population was .01 and the average for the past 5 years was .10.

### Small-pox.

The City was happily free from Small-pox epidemic during the year under review. Only 94 cases of Small-pox were reported of which 26 were found to have been imported as compared with 1,719 cases in 1932. There were 14 deaths as against 493 in the preceding year.

The death rate per 1,000 population was .03 and the average for the past 5 years was .49. Of the total number of deaths, 3 occurred amongst the cases in which Vaccination scars were visible, one amongst the cases said to have been vaccinated in infancy but in which no scars were visible and 10 amongst the unvaccinated. 4 unvaccinated children under the age of 5 were attacked with Small-pox of which 3 died.

87 cases of Small-pox including 2 cases of the previous year were treated at the Contagious Diseases Hospital of which 10 died giving a case mortality rate of 11.49 per cent. 9 cases were treated at their homes of which 4 died giving a case mortality rate of 44.44 per cent.

The following table gives the seizures and deaths from Small-pox during the year month by month and the number of Vaccinations performed :—

Months.	Seizures.	Deaths.	Vaccinations performed by Corporation Special staff.	Vaccinations performed by Private Medical Practitioners and Contagious Diseases Hospital staff.	Vaccinations performed in Rangoon Central Jail by the Jail staff.	Vaccinations performed at Port Health Station on arrival of vessels.	Total Vaccinations.
January, 1933	4	...	3,454	100	562	9,582	12,698
February ...	17	3	7,292	524	544	17,016	25,386
March ...	15	2	12,130	365	622	12,017	25,134
April ...	15	3	3,495	421	540	9,142	13,598
May ...	19	2	2,865	145	746	12,139	15,895
June ...	4	1	3,322	86	670	7,601	11,679
July ...	2	1	2,706	80	867	8,599	12,252
August ...	2	...	2,735	69	687	8,489	11,980
September ...	3	...	1,143	90	551	9,985	11,774
October ...	...	...	823	114	688	11,860	13,485
November ...	6	1	2,653	366	632	20,981	24,632
December ...	7	1	2,947	222	570	15,567	19,306
Total ...	94	14	45,570	2,592	7,679	1,42,978	1,98,819



The following statement shows Vaccinal condition of Small-pox patients admitted into the Contagious Diseases Hospital, Rangoon, during the year 1933:—

Ages.	A.		B.		C.		D.		E.		F.	
	Vaccinated as evidenced by one or more vaccination cicatrices.		Stated to have been successfully vaccinated but no cicatrix present.		Stated to be vaccinated unsuccessfully and no vaccination cicatrix present.		Previously unvaccinated but vaccinated during incubation of Small-pox.		Stated to have been successfully re-vaccinated.		Unvaccinated but had a previous attack of Small-pox.	
		Deaths.		Deaths.		Deaths.		Deaths.		Deaths.		Deaths.
Under 1 year	...	...	...	...	...	...	...	...	...	...	...	...
1 year ...	...	...	...	...	...	...	1	...	...	...	...	...
2 years...	...	...	...	...	...	...	...	...	...	...	...	...
3 " "	...	...	...	...	...	...	1	...	...	...	...	...
4 " "	...	...	...	...	...	...	...	...	...	...	...	...
5 " "	1	...	...	...	1	...	...	...	...	...	...	...
6 " "	...	...	...	...	...	...	...	...	...	...	...	...
7 " "	...	...	...	...	3	...	...	...	...	...	...	...
8 " "	...	...	...	...	...	...	...	...	...	...	...	...
9 " "	...	...	...	...	...	...	...	...	...	...	...	...
10 " "	...	...	...	...	1	...	...	...	...	...	...	...
11 " "	...	...	...	...	...	...	...	...	...	...	...	...
12 " "	1	...	...	...	...	...	...	...	...	...	...	...
13 " "	...	...	...	...	...	...	1	...	...	...	...	...
14 " "	...	...	...	...	...	...	...	...	...	...	...	...
15 " "	...	...	...	...	...	...	...	...	...	...	...	...
16-20 " "	14	...	...	...	(8)	(1)	...	...	1	...	...	...
21-25 " "	15	(1)	...	...	6	(1)	...	...	...	...	...	...
26-30 " "	11	...	...	...	7	(4)	...	...	1	...	...	...
31-35 " "	3	(1)	...	...	1	...	...	...	...	...	...	...
36-40 " "	3	...	...	...	1	...	...	...	...	...	...	...
41-50 " "	4	...	...	...	...	...	...	...	...	...	...	...
51-60 " "	...	...	...	...	...	...	...	...	...	...	...	...
61-70 " "	...	...	...	...	...	...	...	...	...	...	...	...
71-80 " "	...	...	...	...	...	...	...	...	...	...	...	...
81 & upwards	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	52	(2)	...	...	30	(8)	3	...	2	...	...	...

( ) shows deaths under each age period.

### Measles.

108 cases of Measles were reported during the year and there were 2 deaths giving a death-rate of '005 as against 136 cases and 3 deaths with a death-rate of '007 in 1932.

The average for the past five years was '008.

### Chicken-pox.

The number of Chicken-pox cases dropped from 1922 in 1932 to 287 in 1933. There was no death.



### Plague.

There was a steady decline in Plague also. Only 11 cases with 9 deaths were recorded, giving a case mortality rate of 81·82, as compared with 36 cases and 27 deaths and a case mortality rate of 75·00 in 1932. Of the 11 cases reported, 9 were males and 2 females. The death-rate per 1,000 population for the year was '02 and the average for the past five years was '24. The age period most affected was between 15 and 20 years.

7 cases were treated in the Contagious Diseases Hospital and of these 5 died, giving a case mortality rate of 71·43 per cent. 4 cases were treated in their homes all of which died giving a case mortality rate of cent per cent.

Of the total number of cases, 3 were ascertained to have been imported.

The statement below gives an account of the rats caught and examined at the Corporation Laboratory and number of Plague seizures and deaths in 1933:—

Months.	No. of rats caught.	No. of rats examined.	No. of rats found infected.	Percentage of infection.	No. of Plague seizures.	No. of Plague deaths.
January, 1933	57,436	2,893	2	'07	...	...
February "	52,751	2,959	1	'03	2	1
March "	57,291	3,164	...	...	3	2
April "	53,452	2,274	...	...	...	...
May "	54,809	2,958	...	...	1	1
June "	55,555	3,222	...	...	...	1
July "	56,371	3,127	3	'09	...	...
August "	56,488	3,101	1	'03	...	...
September "	54,495	3,227	2	.06	2	2
October "	55,754	2,370	...	...	1	1
November "	55,174	3,321	2	'06	1	1
December "	58,222	3,081	3	'10	...	...
Total	6,67,798	35,697	14	'04	11	9



The following table gives the species of rats found infected in the City of Rangoon during the year 1933, according to Circles :—

Circles.	Mice.	Ganamas Benga-laises.	Rat Rattus.	Rat Con-colour.	Total.
Kamayut	...	...	...	...	...
North Kemmendinge	...	...	...	...	...
South Kemmendinge	...	1	...	...	1
Lanmadaw	...	2	...	...	2
Taroktan	...	...	...	2	2
West Town	...	1	...	1	2
East Town	...	...	...	...	...
Botataung	...	1	...	2	3
Pazundaung	...	...	...	...	...
Theinbyu East	...	...	...	...	...
Theinbyu West	...	...	...	3	3
Tamwe	...	...	...	...	...
Kokine	...	...	...	...	...
Dalia	...	...	...	...	...
Kanaungto	...	...	...	...	...
Port	...	1	...	...	1
Total	1	5	...	8	14

*Inoculation.*—87 persons were inoculated, 68 by the Medical Officers of the Health Department and 19 by registered Private Medical Practitioners.

*Disinfection and Cleaning.*—598 houses were disinfected by the Health Department staff.

22,064 houses and house sites were cleaned. Houses in the poorer quarters of the City were cleaned, as usual, free of charge.

*Destruction of rats.*—667,798 rats were destroyed during the year, of which 35,697 were examined at the Corporation Laboratory and 14 were found to be Plague infected. The corresponding figures for 1932 were 6,47,088 rats destroyed, 37,294 examined and 36 found infected.

The following table gives the number of inoculations performed, houses and house-sites cleaned, houses disinfected, rats destroyed and the number of Plague deaths for the year 1933 and previous ten years :—

Year.	Inoculations performed.	Houses and house-sites cleaned.	Houses disinfected.	Rats destroyed.	Plague deaths.
1923	5,572	14,797	2,158	496,987	1,159
1924	2,018	36,237	1,285	630,907	505
1925	1,017	32,802	2,935	604,250	620
1926	605	28,747	1,738	669,184	257
1927	162	40,010	1,733	864,962	168
1928	338	32,527	5,140	861,827	257
1929	292	11,973	1,096	679,699	94
1930	262	9,266	847	567,490	38
1931	215	16,536	713	578,908	14
1932	168	21,803	2,605	647,088	27
1933	87	22,064	598	667,798	9



### Enteric Fever.

There was a fall under this head. 123 cases with 52 deaths were reported during the year as compared with 151 cases with 85 deaths in the previous year.

The number of deaths recorded during the last five years is given below :—

1929	...	...	...	...	72
1930	...	...	...	...	74
1931	...	...	...	...	57
1932	...	...	...	...	85
1933	...	...	...	...	52

The death-rate per 1,000 population for the year was '13 and the average for the previous five years was '19.

### Cerebro-Spinal Meningitis.

As in the previous year, there was only one case with one death from this disease during the year.

The death-rate per 1,000 of population for the year was '002, and the average for the past five years was '01.

### Diphtheria.

40 cases of Diphtheria with 11 deaths were reported during the year as compared with 23 cases and 6 deaths in the previous year.

The death-rate for the year was '03 and the average for the past five years was '02.

### Puerperal Septicaemia.

11 cases of Puerperal Septicaemia were reported during the year and all proved fatal, as compared with 29 cases and 29 deaths in the previous year. The death-rate per 1,000 population was '03 and the average for the past five years was '08.

### Malarial Fever.

During the year, 116 deaths from this disease were registered, as compared with 122 deaths in the preceding year, giving a death-rate of '29. The average for the past five years was '43.

### Influenza.

6 deaths from Influenza were reported during the year as compared with 5 deaths in the previous year.

The death-rate was '01 and the average for the past five years was '04.



### Diarrhoea and Dysentery.

Deaths from Diarrhoea and Dysentery showed a marked decline, there being 458 deaths, as compared with 537 deaths in 1932. Of these, 64 were reported from hospitals and other public institutions. The death-rate per mille of population was 1'14, the average for the last five years being 2'04.

### Tuberculosis.

Tuberculosis continued to take its toll of life. There were 817 deaths giving a death-rate of 2'04 per mille, as compared with 834 deaths and a death-rate of 2'08 in the previous year. Of these, 765 deaths were recorded as Phthisis. The highest death-rate from Phthisis was in Kamayut circle, the rate being 3'47.

292 deaths were recorded in hospitals and other public institutions.

The following statement gives the number of deaths and death-rate from tuberculosis according to sex for the past five years :—

Year.	MALE.		FEMALE.	
	No. of deaths.	Death-rate.	No. of deaths.	Death-rate.
1929	576	2'41	276	2'58
1930	519	2'17	242	2'27
1931	538	1'98	239	1'85
1932	569	2'10	265	2'05
1933	561	2'07	256	1'98

The deaths and death-rate amongst the various communities were as follows :—

	Deaths.	Death-rate on Census Population.
Buddhists	363	2'68
Hindus	269	1'91
Mohammedans and Malays	139	1'96
Christians	44	1'42
Other Classes	2	0'09



The following statement gives the number of deaths from tubercle of the lungs and respiratory diseases with their death-rate per 1,000 of the population for the past ten years :—

Year.	TUBERCLE OF LUNGS.		RESPIRATORY DISEASES.	
	Death.	Death-rate.	Death.	Death-rate.
1924	975	2'82	2,287	6'62
1925	1,188	3'44	2,344	6'78
1926	1,093	2'16	2,585	7'48
1927	902	2'61	2,476	7'17
1928	747	2'16	2,642	7'65
1929	804	2'33	2,329	6'74
1930	709	2'05	1,967	5'69
1931	730	1'82	2,189	5'49
1932	792	1'98	2,206	5'51
1933	765	1'91	2,036	5'08

The proposed clinic for treatment of tuberculosis cases could not yet be established. The site selected for it is a piece of Government land situated at the corner of Judah Ezekiel Street and Dalhousie Street which is now being used as a Storeyard and Conservancy Mustering Station. The order of the Local Government permitting establishment of a T. B. Clinic on this site was received during the latter part of the year. It is expected that necessary action will be taken to build the clinic early.

### **Respiratory Diseases (excluding Phthisis).**

Although there was a fall, the respiratory diseases continued to take their heavy toll of life. There were 2,036 deaths under this head as compared with 2,206 deaths in the previous year. Of these, 239 deaths were recorded in hospitals and other public institutions. The death-rate per 1,000 population was 5'08 as compared with 5'51 in the previous year, the mean ratio for the past five years being 6'21.

### **Cancer.**

53 deaths from Cancer were recorded during the year giving a death-rate of '13 per 1,000 of population as compared with 62 deaths with a death-rate of '15 in the previous year.



A statement showing these deaths according to races and parts of the body affected is given below :—

Parts of the body affected.	Burmese.	Hindus.	Moham-medans.	Chinese.	Euro-peans.	Anglo-Indians.	Other Classes.	Total.
Lip	...	...	1	...	...	...	...	1
Neck	...	...	...	...	...	1	...	1
Mouth	...	2	...	1	...	...	...	3
Tongue	...	...	2	...	...	...	...	2
Throat	...	1	...	...	...	...	...	1
Breast	...	1	...	...	...	...	...	6
Stomach	...	3	...	2	...	1	...	7
Liver	...	3	...	1	...	1	...	9
Spine	...	...	1	...	...	...	...	1
Cervix	...	3	1	...	...	...	...	5
Rectum	...	1	...	1	...	...	...	2
Uterus	...	2	1	...	...	...	...	5
Kidney	...	...	...	...	...	...	...	1
Axilla	...	...	1	...	...	...	...	1
Lung	...	...	...	...	...	...	...	1
Soft Palate	...	...	...	...	...	...	1	1
Oesophagus	...	1	...	...	...	...	...	2
Cheek	...	1	...	...	...	...	...	1
Parts not known	...	1	...	...	...	...	1	3
Total	18	17	8	5	...	3	2	53

### Beri-Beri.

87 cases of Beri-beri including Epidemic Dropsy with 75 deaths were registered from this disease during the year. Of these, 55 deaths were reported from hospitals and other public institutions. In the previous year 97 deaths were reported.

The death-rate for the year was '19 and the average for the past five years was '26.

The following table gives the number of deaths and the death-rate for the various communities :—

Communities.	NUMBER OF DEATHS.			Death-rate.
	Male.	Female.	Total.	
Buddhists	1	1	2	'01
Hindus	57	4	61	'43
Mohammedans and Malays	9	1	10	'14
Christians	2	...	2	'06
Other classes	...	...	...	...
Total	69	6	75	'19

### Kala-Azar.

There were 2 deaths from Kala-Azar, one at the Jail Hospital and the other at the Rama Krishna Mission Hospital as compared with one death in the previous year. The death-rate was '004.



### Comparative Mortality from Principal Causes.

Below is a table of deaths and death-rates from Epidemic diseases and other principal causes during 1933 and 1932 and the last decennium:

Causes of death.	1933.		1932.		Average for 10 years.	
	No. of deaths.	Death-rate.	No. of deaths.	Death-rate.	No. of deaths.	Death-rate.
Cholera ...	5	01	3	0'007	65	16
Small-pox ...	14	03	493	1'23	225	56
Plague ...	9	02	27	0'07	313	78
Enteric ...	52	13	85	0'21	65	16
Malaria ...	116	29	122	0'30	208	52
Influenza ...	6	01	5	0'01	43	11
Diarrhoea and Dysentery	458	1'14	537	1'34	952	2'38
Tuberculosis ...	817	2'04	834	2'03	936	2'34
Diseases of the Respiratory system.	2,036	5'08	2,206	5'51	2,316	5'78
Beri-Beri ...	75	19	97	0'24	88	22
Puerperal Septicaemia ...	11	03	29	0'07	25	06
Injuries ...	215	54	256	0'64	278	69
Other Causes ...	5,040	12'59	5,180*	12'94	5,517	13'78
Total ...	8,854	22'11	9,875	24'66	11,031	27'55

\* Excluding 1 death cause of which is unknown.

### Contagious Diseases and Observation Hospitals.

808 patients were admitted into the Hospital of which 76 were from outside Municipal limits. In all 842 patients including 34 patients of 1932 were treated during the year of which 730 were males and 112 females.

There were 360 voluntary admissions. In 1932 the number of patients treated was 3,557 (3,076 males and 481 females).

The table below gives the summary of work done during the year 1933. The details of the working of the Hospital will be found in the Hospital report which is printed as a supplement to this report.

Diseases.	Patients remaining in Hospital on 31st December 1932.	No. of patients admitted during the 1933.	Total number treated.	Discharged.	Died.	Case mortality per cent.	Patients remaining in Hospital on 31st December 1933.
Plague ...	...	7	7	2	5	71'43	...
Cholera ...	...	5	5	1	4	80'00	...
Small-pox ...	2	85	87	71	10	11'49	6
Chicken-pox ...	6	255	261	237	...	...	24
Measles ...	2	84	86	82	...	...	4
Mumps ...	18	205	223	218	...	...	5
Diphtheria ...	2	16	18	13	4	22'22	1
Erysipelas ...	1	11	12	9	2	16'66	1
Influenza ...	...	...	...	...	...	...	...
Cerebro-Spinal Meningitis.	...	1	1	...	1	100'00	...
Diarrhoea ...	1	12	13	9	4	30'77	...
Adenitis ...	...	3	3	3	...	...	...
All other diseases.	2	124	126	106	18	4'29	2
TOTAL ...	34	808	842	751	48	5'70	43



### Observation Hospital.

The number of patients admitted into this Hospital was 497 there being 415 males and 82 females as against 788 in 1932.

### Medical Relief.

The Corporation continued to maintain the five Dispensaries at Dalla, Kanaungto, Forest Road, Bagaya Phongyi Road and Evanson Street. The Medical Registrars in charge of registration and vaccination duties at Dalla, Kanaungto and Forest Road continued to carry out the dispensary work in their respective places in addition to their own duties. The Merlin Kingsley Memorial Dispensary at Evanson Street remained in charge of a whole-time Medical Registrar (Sub-Assistant Surgeon); the female and children section of the Dispensary continued to be looked after by Lady Health Assistant Dr. (Miss) A. Dhar, M.B., up to 31st October 1933, when she was relieved of this duty by a Medical Registrar. Dr. Miss G. Hormasji, M.B., continued to hold charge of the Dispensary for Women and Children at Bagaya Phongyi Road, Kemmendine, throughout the year. These dispensaries are a great boon to the poor people and their popularity is growing. They continued to show large attendance daily.

The following statement will show the work done at each of the Dispensaries:—

Name of Dispensaries.	No. of patients treated during the year 1933.						Total No. of patients treated.	No. of new patients treated.	Total attendance in		Daily average attendance in	
	Adults.			Children.					1933.	1932.	1933.	1932.
	Male.	Female.	Total.	Male.	Female.	Total.						
Dalla Dispensary	10,772	2,420	13,192	2,278	1,456	3,734	16,926	16,908	25,137	25,729	68	70
Kanaungto	7,589	1,697	9,286	1,195	917	2,112	11,398	11,363	24,395	23,940	67	66
Merlin Kingsley Memorial Dispensary, Evanson Street.	18,889	7,548	26,437	4,147	4,838	8,985	35,422	35,084	90,465	80,101	249	220
Forest Road Dispensary.	13,530	5,219	18,749	3,530	3,111	6,641	25,390	25,250	57,253	57,155	186	157
Dispensary for Women and Children, Bagaya Phongyi Road.	...	9,056	9,056	2,966	2,944	5,910	14,966	14,828	37,025	32,857	119	105
Total	50,780	25,940	76,720	14,116	13,266	27,382	1,04,102	1,03,433	2,44,275	2,19,782	689	618

### Medical Inspection of Municipal School Students.

The Medical Officer for examination of rickshaw pullers continued to inspect Municipal Schools for medical examination of pupils. The girl students of the Kemmendine Municipal Girls' High School, Kandawglay School and Pazundaung School (Thompson Street) were examined by the 2 Lady Health Assistants. In all 2,129 students were examined by these three officers during the year 1933-34 and a summary of the result of inspection is given in the form of a statement hereunder.





## Medical Inspection of Municipal School Students

						94th Street (Kandawglay).		Kanaungto.	Lanmadaw.	Kamakasi.
							*			
1.	Total number of pupils examined during the year ...					317	135	186	208	143
2.	Number registered for Defective Vision, eye strain and squint...					22	7	4	14	...
	Number in whom defect corrected ...					1	...	1	3	...
3.	Number registered for Trachoma ...					32	9	61	39	23
	Number corrected ...					4	2	20	10	8
4.	Number registered for Enlarged Tonsil ...					34	5	61	62	47
	Number cured ...					9	5	24	20	15
5.	Number registered for Nasal Obstruction ...					16	...	11	5	3
	Number cured ...					...	...	1	...	...
6.	Number registered for Defective Hearing ...					1	...	...	...	...
	Number cured ...					...	...	...	...	...
7.	Number registered for Otorrhoea ...					5	4	4	1	1
	Number cured ...					...	2	1	...	...
8.	Nutrition :—									
	Number registered... { Good ...					200	118	90	97	86
	Fair ...					110	13	96	110	57
	Poor ...					7	4	...	1	...
9.	Number registered for Anaemia ...					...	1	...	...	...
	Number cured ...					...	1	...	...	...
10.	Number registered for Enlarged Spleen ...					...	...	...	...	...
	Number cured ...					...	...	...	...	...
11.	Number registered for Defective Teeth ...					64	51	40	60	28
	Number cured ...					18	41	15	20	6
12.	Number registered for Tuberculosis ...					1	...	...	...	...
	Number cured ...					...	...	...	...	...
13.	Number registered for Skin Disease ...					7	7	4	...	1
	Number cured ...					1	7	...	...	...
14.	Number registered for Orthopedic Defects ...					...	...	...	...	...
	Number cured ...					...	...	...	...	...
15.	Number registered for Glandular Enlargement... ..					5	1	...	4	3
	Number cured ...					...	...	...	...	...
16.	Number registered for Nervous Defect ...					...	1	...	...	...
	Number cured ...					...	...	...	...	...
17.	Number registered for Mental Defects ...					...	...	...	...	...
	Number cured ...					...	...	...	...	...
18.	Number registered for other Curable Defects ...					12	...	7	10	4
	Number cured ...					2	...	...	3	...
19.	Number registered for Non-Curable Defects ...					4	...	1	3	...
	{ Number by primary vaccination ...					311	126	173	203	142
	{ Number by re-vaccination ...					...	100	1	26	104
20.	{ Number protected by Small-pox ...					5	4	6	4	1
	{ Number unprotected ...					1	9	7	1	...

\* These girl students were examined



during the year 1933-34.

Ayogon.	Kyaungmyaung.	Kemmendine (Boys).	*Girls' High School (Kemmendine).	Kwethit (Kemmendine)	121st Street, Yedwin- gone.	Thompson Street, Pazundaung.	Total.
99	60	175	128	89	72	254	2,129
4	3	15	4	2	17	13	113
...	1	...	...	...	5	2	15
14	4	9	...	1	4	6	203
1	1	2	...	...	...	...	51
15	3	21	28	44	23	15	368
3	1	6	4	10	8	12	118
5	...	...	...	...	...	...	40
...	...	...	...	...	...	...	1
1	1	...	...	7	...	1	12
...	...	...	...	...	...	...	...
1	1	1	4	2	1	...	146
...	...	...	4	...	...	...	7
47	32	132	94	58	39	185	1,379
51	27	41	33	27	33	61	717
1	1	2	1	4	...	8	33
...	...	...	2	...	...	...	5
...	...	...	...	...	...	...	2
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
28	27	25	62	50	32	67	594
9	8	6	4	11	9	19	193
...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...
2	...	1	6	3	...	8	54
...	...	1	2	...	...	2	26
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
3	...	1	...	2	1	...	20
...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
3	2	2	...	14	8	7	70
...	...	...	...	6	4	...	15
1	1	...	...	1	1	2	14
97	60	169	127	83	70	242	2,066
2	...	42	88	31	...	15	534
...	...	3	8	6	1	5	46
2	...	3	...	...	1	7	31

by the Lady Health Assistants.

### Medical Examination of Rickshaw Pullers.

14,720 rickshaw pullers were examined during the year of which 13,647 were found fit by the Medical Officer and 1,073 unfit to pull rickshaws. The corresponding figures for the year 1932 were 14,655, 13,017 and 1,638 respectively.

The following statement gives details of the result of examination :—

Total No. of Pullers examined	...	14,720 of whom	4,354 were Old Licensees.	
			and 10,366 were New	..
Total No. of Pullers found fit by Medical Officer	...	13,647 of whom	4,067 were Old	..
			and 9,580 were New	..
Total No. of Pullers rejected as unfit	...	1,073 of whom	102 were Old	..
			and 971 were New	..
Total No. of Pullers licensed by the Hackney Carriage Department	...	12,662 of whom	4,135 were Old	..
			and 8,527 were New	..

Total No. of Pullers found fit by M.O. but rejected by the Hackney Carriage Department owing to ignorance of Police Traffic Regulations...985. All were new.

Of the rejected the following defects were noted :—

			Old Licensees.	New Licensees.	Total.
Under age	...	...	Nil	602	602
General Debility	...	...	72	186	258
Heart Disease	...	...	28	80	108
Defective Vision	...	...	2	35	37
Varicose Veins	...	...	Nil	31	31
T. B. Lungs	...	...	Nil	23	23
Enlarged Spleen	...	...	Nil	6	6
Deformity	...	...	Nil	4	4
Enlarged Liver	...	...	Nil	2	2
Hydrocele	...	...	Nil	2	2
TOTAL			102	971	1,073

### Anti-Mosquito Measures.

The following table gives some idea of the anti-mosquito measures taken during the year :—

No. of mosquito breeding and harbouring place eliminated.	No. of likely breeding and harbouring places attended to.	No. of pools, drains etc. sprayed with crude oil.	No. of sites cleaned and reclaimed by removing jungle growths and filling in the depressions.	No. of bungalows and other places inspected.
8,165	1,651	304	375	9,915



These measures have been introduced since July 1932, when I detailed for this duty one Sanitary Inspector trained in this work with 2 coolies under him equipped with oil sprayers, crude oil, spades, jungle-cutting dahs, baskets, etc., for work in the Suburban areas of this city. Col. Jolly's very excellent Report on the Mosquito Survey of Rangoon was not then out. The Staff had instructions to detect mosquito breeding and harbouring places in the aforesaid areas and eliminate them, as far as practicable, by oiling or filling or draining or cutting and removing the jungle growths as the case might be besides giving such advice and assistance to the residents as might be required. To attempt something more than this would have necessitated employment of extra Staff and incurring of extra expenditure for which the time was not opportune.

Later on, I could spare 3 more Sanitary Inspectors, similarly equipped, for this work and the table given above represents in broad outlines the works turned out by these Staffs.

The problem of dealing with mosquito pests in Rangoon is a vast and intricate one. Its successful solution will depend on well-directed and organised action on an extensive scale for years. At present, only the foundation of the work has been laid—I think well laid ; with the existing staff it was not possible to do more.

### **Markets.**

There are 21 markets in the City, 13 Municipal, and 8 private. All these markets were regularly inspected by the Assistant Health Officers and the Sanitary Inspectors. In addition to inspection of food stuffs, sanitary defects were looked into and notices or letters issued for improvements as found necessary.

### **Laboratory.**

2,926 samples of food, drink and other articles including 2,300 samples of urine were chemically examined at the Corporation Laboratory during the year as against 2,309 in 1932.

43,450 specimens were bacteriologically examined. This includes 35,702 rats examined. The total number of specimens examined in 1932 was 40,833.

The details of work done at the Laboratory will be found in the report of the Analyst which is appended hereto.

### **Jerked Meat.**

The Port Authorities continued to report the arrival of all consignments of Jerked meat to this Department. On receipt of such report from the Superintendent of Wharf, Sanitary Inspectors were sent out for inspection of the stuff.



In all 61 inspections were made by the Sanitary inspectors and 7,250 bundles of meat were inspected.

### **Work of Food Inspection.**

This work was in the past carried out by 8 Sanitary Inspectors known as Food Inspectors. During the year under report, food inspection work was distributed among the Circle Inspectors. Two out of eight appointments of Sanitary Inspectors referred to above, are vacant at present. Of the remaining 6, 4 Sanitary Inspectors are posted to Anti-Mosquito work and 2 serve as leave reserve.

A statement showing various articles of unwholesome food and drink destroyed is given at pages 107—109.

### **Milk.**

The position of milk supply remains as unsatisfactory as before. The bulk of the City's milk supply comes from outside the Municipal limits and it has not yet been possible to enforce the Milk Bye-laws in their entirety and bring about the desired improvements, the difficulties in the way being enormous. 339 viss of milk was seized for contravention of bye-laws.

### **Ghee Samples.**

89 samples of Ghee were taken under the Burma Ghee Adulteration Act and sent to the Government Chemical Examiner. 81 samples were reported to be genuine, 1 adulterated and 6 slightly adulterated. 1 sample was not examined by the Chemical Examiner as the seals on the bottle were not found in order. No prosecution was instituted. Two prosecutions instituted in 1932 were disposed of this year and the parties were fined Rs. 25 each.

### **Eating Houses and Tea-shops.**

During the year under report 9,678 inspections were made by the Sanitary Inspectors and 1,454 licenses were issued.

### **Wash House.**

The total number of tanks at the Dhoby Wash-House is 564. The approximate number of dhobies using them was 700. Out of 564 tanks, 36 covered tanks are engaged by several Pinmen and a few others.

### **Burial Grounds.**

All the Burial Grounds were regularly visited and burial passes collected and checked. About 12 acres of land had been purchased during the year for extension of the West Rangoon Burial Ground.



## Hides.

The storage of hides continued to be restricted to the Corporation Godowns in the Neikban Quarters. No licenses were issued for this business in any other parts of the town.

## Registered Buildings.

There were, 2,401 registered buildings on 1st January 1933 of which 53 were struck off during the year and 206 buildings were newly registered making a total of 2,554 registered buildings at the close of the year, the maximum number of living accommodation permissible under the rules being 1,29,291.

The following statement gives an account of work done under the registered building rules :—

Division	1st Jan 1933	31st Dec 1933	Struck off	Newly registered	Total	Maximum permissible
West Town I	170	170	0	0	170	30
West Town II	1408	1408	0	0	1408	30
West Suburban	5020	5020	0	0	5020	30
East Town I	161	161	0	0	161	30
East Town II	321	321	0	0	321	30
East Suburban	328	328	0	0	328	30
Total	7241	7241	0	0	7241	30

**Registered**

The following statement gives the total number of registered buildings

1	2	3	4	5			6		
Division.	No. of Registered Buildings on 1st January, 1933.	No. of Registered Buildings struck off the Register in 1933.	No. registered in 1933.	Total No. of Registered Buildings on 31st December 1933.			Maximum number of living accommodation permissible.		
				Lodging Houses.	Mill Cooly Barracks.	Total.	Lodging Houses.	Mill Cooly barracks.	Total.
West Town I ...	390	...	*30	470	...	470	24,522	...	24,522
West Town II ...	509	24	23	†458	...	458	18,253	...	18,253
West Suburban...	301	10	48	203	136	339	5,160	14,013	19,173
East Town I ...	437	...	24	461	...	461	19,891	...	19,891
East Town II ...	317	19	50	321	27	348	15,975	4,897	20,872
East Suburban ...	447	...	31	328	150	478	10,195	16,385	26,580
Total ...	2,401	53	206	2,241	313	2,554	93,996	35,295	129,291

\* 50 cases transferred to this

† After deducting 50 cases



**Buildings.**

in the City and the number inspected for overcrowding, etc:—

7	8	9	10	11	12	13	14	
Total No. of inspections of the R. B. houses made during 1933.	Percentage of inspections to the total number of Registered Buildings.	No. of houses inspected more than once during the year.	No. of individual rooms found overcrowded during the year.	Number of rooms where no overcrowding was found.	No. of cases sent up for prosecution on account of overcrowding.	No. of R. B. Prosecution cases tried during the year.	Amount of	
							Fines imposed.	Costs awarded.
							Rs.	Rs.
871	184.53	291	739	1,744	3,356	2,729	13,692	2,015
1,135	247.81	310	1,011	1,631				
325	95.87	104	163	745				
951	206.29	376	1,084	1,777				
578	166.09	250	431	1,169				
525	109.83	218	250	996				
4,385	171.30	1,549	3,678	8,062	...	...	...	...

Division from W. T. II by H. O's order,  
transferred as stated above.

**The following statement gives a summary of the work done in the Department during the year 1933:—**

No. of notices issued	...	No. 21,809
No. of cases sent up for prosecution	...	„ 4,628
No. of cases tried	...	„ 3,649
No. of cases withdrawn	...	„ 92
No. of cases pending disposal	...	„ 1,807
Amounts of fines imposed	...	Rs. 17,548
Amounts of cost awarded	...	„ 2,547
No. of Sanitary complaints received	...	No. 335
No. of conservancy complaints received	...	„ 263
No. of Inter-departmental reports issued	...	„ 451
No. of cases opened	...	„ 4,395
No. of Licenses issued :—		
Milk	...	„ 44
Ice-cream and Sherbet	...	„ 59
Ice and Aerated Waters	...	„ 20
Dangerous and Offensive Trades	...	„ 979
Public Eating Houses and Tea-shops	...	„ 1,454
No. of letters received	...	„ 15,763
No. of letters issued	...	„ 16,163
No. of houses condemned under Section 156	...	„ 5
No. of houses vacated	...	„ 4

**The following statement shows the work done by the Lady Health Visitors, Nurse-Midwives, Vaccinators, and etc., during the year 1933:—**

No. of births verified	...	2,048
No. of unregistered births discovered	...	1,994
No. of small-pox cases found during house to house inspection		1
No. of notices served for primary vaccination	...	7,482
No. of prosecution under Vaccination Act	...	27
No. of schools inspected for vaccination	...	229
No. of school children inspected	...	34,519
No. of school children vaccinated	...	6,296
No. of mills inspected for vaccination	...	84
No. of mill hands inspected	...	10,627
No. of mill hands vaccinated	...	7,899
No. of primary vaccinations performed	...	9,850
Total number of vaccinations performed	...	1,98,819



**The following Table gives a comparative summary of work done in the department during the years 1924 to 1933.**

Calendar year.	Total No. of vaccinations performed.	No. of Sanitary Notices issued.	No. of Blockages cleared.	No. of letters received.	No. of letters issued.	No. of licenses issued.	No. of cases tried.	Amount of Fines realised.
1924	57,334	13,211	18,240	8,807	11,902	1,057	1,311	Rs. 8,516 4
1925	127,111	15,768	15,364	8,748	13,005	1,246	2,489	15,873 0
1926	85,850	17,038	22,765	9,292	13,076	1,268	2,087	13,689 0
1927	93,195	20,181	22,118	9,362	14,162	1,963	3,325	26,380 8
1928	241,774	20,770	24,060	11,372	14,705	2,358	3,710	30,442 8
1929	258,374	27,264	30,025	13,483	17,614	2,568	3,581	24,048 8
1930	213,653	24,428	31,232	12,316	14,099	2,556	2,849	15,251 0
1931	195,847	23,989	31,369	13,591	15,138	2,342	3,213	14,008 0
1932	311,487	23,584	31,338	15,065	14,883	2,472	4,098	19,265 0
1933	198,819	21,809	25,675	15,763	16,163	2,556	3,649	17,548 0

### **Cleansing Department.**

The Conservancy and Motor Transport Departments continued to be under the charge of Dr. J. Hormasji, Health Officer. The question of merging the Establishment into the Health Department has not yet been finally decided by the Corporation.

During the year under review the Health Officer submitted a proposal to conserve night soil by Motor Lorries and to remove sulliage from suburban area bungalows by a 'Gully Emptier.' The proposal is under consideration of the Commissioner.

### **Staff.**

Dr. J. Hormasji, L.R.C.P. & S. (Edin.), L.R.F.P.S. (Glas.), D.P.H., R.C.P.S., (Irel.) continued to hold charge of the office of Health Officer throughout the year.

Dr. S. Rodriguez, M.B.Ch.B. (Edin.), D.P.H. (Eng.), went on 14 days leave from the 17th to 28th May; immediately after his return to duty he fell ill again and had to proceed on 8 months' leave from 30th May 1933. It is regretted that Dr. Rodriguez died on the 18th July 1933. The Department lost in him an intelligent and able officer.

Dr. J. H. Writer, L.M. & S. (Bom.), D.P.H., R.C.P.S. (Lon.), was appointed to officiate as Assistant Health Officer from the 3rd June 1933 and he continued to act till end of the year.



Dr. N. S. Kotwall, M.B.B.S. (Bom.), D.P.H., R.C.P.S. (Eng.), proceeded on 4 months' leave from the 23rd November 1933, and Dr. Ba Kin, B.A.M.B., ch. B. (Edin.), D.P.H. (Edin.), was appointed officiating Assistant Health Officer from the same date.

Dr. B. P. Srivastava, M.B.B.S. (Bom.), D.P.H., R.C.P.S. (Eng.), and Dr. K. P. Pillay, M.B.B.S. (Bom.), D.P.H. (Lon.), Assistant Health Officers remained on duty throughout the year. The fifth Assistant Health Officer's appointment continued to remain unfilled.

Mr. D. M. Gangolli, M.Sc., B.A., Analyst, returned from leave on the 2nd September 1933 after obtaining the degree of F. I. C., and Dr. J. Das, M.B., Officiating Analyst was reverted to his substantive appointment of Assistant Analyst and the services of Dr. N. D. Malhotra, M.B.B.S., Officiating Assistant Analyst terminated from the same date.

Dr. J. Das, M.B., Assistant Analyst, was granted 13 months' leave for further study and he availed himself of it from the 12th October 1933. Dr. N. D. Malhotra was again appointed Officiating Assistant Analyst and relieved Dr. Das.

J. HORMASJI, D.P.H.,

RANGOON :

*Dated the 1st May, 1934.*

*Health Officer,*

*Corporation of Rangoon.*



# VACCINATION REPORT OF THE CITY OF RANGOON

*For the year 1933-34.*

The total number of vaccinations performed during the year 1933-34 was 2,21,397. This includes 1,40,683 vaccinations performed among passengers on arrival of Steamers from other Ports, by the Corporation Vaccinators under supervision of the Port Health Authorities and 2,246 vaccinations performed by the Private Medical Practitioners.

The table below gives the comparative figures for three years :—

Year.	Vaccinations in Town by Corporation Staff.		Vaccinations by Private Medical Practitioners.		Ship Vaccina- tions.	Total.
	Primary.	Revaccina- tions.	Primary.	Revaccina- tions.		
1933-34	11,235	67,233	214	2,032	1,40,683	2,21,397
1932-33	9,310	48,214	119	573	1,58,215	2,16,431
1931-32	13,118	1,08,263	231	6,116	1,56,537	2,84,265

The number of successful vaccinations performed was 18,833 as compared with 14,096 and 28,249 of 1932-33 and 1931-32 respectively.

9,644 children under the age of six were successfully vaccinated showing an increase of 2,780 and a decrease of 499 in the number of such vaccinations as compared with the figures of 1932-33 and 1931-32 respectively.

7,416 vaccinations were performed in the Rangoon Central Jail by the Jail Staff.

## Staff.

The total number of permanent staff of Vaccinators employed during the year was 21 excluding 11 Lady Health Visitors and Nurse-Midwives who assisted in vaccinating women and children. There were also 8 temporary Vaccinators entertained during the latter part of the year.



The work of the Vaccination Staff was as usual supervised by the Assistant Health Officers and Medical Registrars.

The four temporary Vaccinators entertained in July 1928 for vaccination of incoming passengers from other Ports continued to work at the Port Health Station under the supervision of the Port Health Officer.

### Cost.

The cost per head per vaccination performed during the year was 0-3-2 and that of each successful vaccination was 2-4-6 as compared with Rs. 0-3-4 and Rs. 3-1-10 respectively in the year 1932-33, details of which are given below :—

Year.	Primary vaccination in Town.	Re-vaccinations in Town.	Ship vaccinations.	Total vaccinations.	Total successful cases (Town and Private Medical Practitioners).	Total expenditure including salaries of Assistant Registrar & Vaccinators.	Average cost for successful vaccination.	Average cost per vaccination.
						Rs. A. P.	Rs. A. P.	Rs. A. P.
1933-34	11,449	69,265	1,40,683	2,21,397	18,833	42,856 14 6	2 4 6	0 3 2
1932-33	9,429	48,787	1,58,215	2,16,431	14,096	44,943 3 3	3 1 10	0 3 4

The average cost of each successful vaccination performed by the Special Staff in the town was 1-13-1 and that of each vaccination operation was 0-6-10.

### Lymph.

99,442 tubes of vaccine lymph were obtained from Meiktila during the year. 40,960 tubes were supplied to the Corporation Vaccinators, 46,871 to the Port Health Station and 2,118 to Private Medical Practitioners, leaving a balance of 9,493 tubes at the end of the year.

### Prosecution.

10 cases were sent up for prosecution for failure to report Small-pox cases in time. In 7 cases the parties were convicted, 1 case was struck off and 2 cases were still pending in Court at the close of the year.

24 of the notices served on the parents or guardians under Section 17 of the Vaccination Act of 1880 to bring their children for vaccination to the Vaccination Stations were not complied with and all these cases were reported to the Sixth Additional Magistrate under Section 18 of the Act. 4 cases were tried and the parties convicted and fined Rs. 21; 7 cases were struck off and 9 withdrawn, 3 closed and one case remained pending at the close of the year.



### Small-pox.

The total number of Small-pox cases during the year was 147 with 35 deaths as compared with 465 attacks and 153 deaths during 1932-33 and 1,363 attacks and 364 deaths during the year 1931-32.

House to house inspection gangs were formed to detect all suffering cases, to send them to the Contagious Diseases Hospital and to carry out immediate vaccination of contacts and disinfection of all the clothings, beddings and the affected premises.

During the year, 229 Schools were inspected and out of 34,519 children inspected, 6,296 were vaccinated.

86 Mills were inspected and out of 11,666 mill hands inspected, 9,031 were vaccinated.

HEALTH DEPARTMENT :  
Dated the 1st May 1934. }

J. HORMASJI, D.P.H.,  
HEALTH OFFICER,  
Corporation of Rangoon.

# ANNUAL REPORT

## ON THE

### WORKING OF THE CONTAGIOUS DISEASES

### HOSPITAL

*For the year ending 31st December 1933.*

---

**Population of Rangoon—4,00,415.**

#### **I.—Class of Hospital and Date of Opening.**

This Hospital was transferred to the Municipal Corporation of Rangoon on the 1st October 1920 and would thus be placed under the Classification—Class III—Local Fund.

#### **II.—Hospital Buildings.**

One ward, of six beds, was dismantled, being very old and unfit for further use. A new ward was erected with an accommodation of 12 beds at a cost of Rs. 3,467.

It is proposed to dismantle the remaining wards and rebuild them at an estimated cost of Rs. 60,000.

#### **III.—Hospital Equipment.**

There is nothing particular to record regarding the Surgical and General Equipment of this hospital. Everything necessary for its proper maintenance has been maintained.

#### **IV.—Hospital Staff.**

I am supervising the work of the hospital. The subordinate Medical Staff of the hospital consists of one Assistant Surgeon and three Sub-Assistant Surgeons.



The permanent staff of the hospital is as follows :—

1 Medical Officer.	6 Female Attendants.
1 Assistant Surgeon.	16 Sweepers—male.
3 Sub-Assistant Surgeons.	6 Female Sweepers.
1 Sister-in-Charge.	2 Cooks.
7 Nurses.	1 Waterman—Lampman.
1 Clerk-Steward.	2 Office Peons.
2 Compounders.	2 Gate Durwans.
2 Head Wardboys.	2 Dhobies.
14 Wardboys.	1 Mali.

### V.—Hospital Management and Finance.

Since the transfer of the hospital to the control of the Corporation, all the charges for the proper upkeep of the hospital are being borne by the Corporation, the Local Government contributing Rs. 40,000 every year towards the maintenance of this and the Observation Hospital.

The following table gives the number of patients admitted in the hospital from within Municipal limits as compared with those from outside the Municipal area.

Within Municipal limits.	Outside Municipal limits.	Total.
732	76	808

### VI.—Hospital Patients—General Statistics.

Table No. I.

Diseases.	Patients remaining in hospital on 31st December 1932.	Number of patients admitted during the year 1933.	Total number treated.	Dis-charged.	Died.	Case mortality per cent.	Patients remaining in hospital on 31st December 1933.
Plague ...	...	7	7	2	5	71.43	...
Cholera ...	...	5	5	1	4	80.00	...
Small-pox ...	2	85	87	71	10	11.49	6
Chicken-pox ...	6	255	261	237	...	...	24
Measles ...	2	84	86	82	...	...	4
Mumps ...	18	205	223	218	...	...	5
Diphtheria ...	2	16	18	13	4	22.22	1
Erysipelas ...	1	11	12	9	2	16.66	1
Influenza ...	...	...	...	...	...	...	...
Cerebro-Spinal Meningitis...	...	1	1	...	1	100.00	...
Diarrhoea ...	1	12	13	9	4	30.77	...
Adenitis ...	...	3	3	3	...	...	...
All other diseases ...	2	124	126	106	18	14.29	2
TOTAL ...	34	808	842	751	48	5.70	43

(a)

**Table No. II.**

1932.			1933.		
Male.	Female.	Total.	Male.	Female.	Total.
3,076	481	3,557	730	112	842

**Table No. III.**

Voluntary admission.		Those sent by the Health Department, Port Trust Authorities, Rangoon General Hospital, Sri Rama Krishna Hospital, etc.	
1932.	1933.	1932.	1933.
1,118	360	2,439	482

(b) The total number of cases treated during the year under report was 842 (3,557) of which 730 (3,076) were males and 112 (481) females.

The total number of voluntary admission was 360 (1,118).

The following table gives the percentage of voluntary admissions to the total number treated during the year as compared with that of the previous year:—

**Table No. IV.**

1932.	1933.
31.43	42.76

(c) The daily average attendance as compared with the previous year was as follows:—

**Table No. V.**

1932.	1933.
168	35



The largest number treated on any one day during the year was as follows:—

**Table No. VI.**

Year.	Number.	
	1932.	1933.
1932	774	91

The respective dates on which this happened were 23rd March 1932 and 9th March 1933.

(d) The following table gives the total number of deaths and death-rate per cent:—

**Table No. VII.**

1932.		1933.	
295	8.29 per cent.	48	5.70 per cent.

The total number of deaths during the year under report was 48 (295) giving a death-rate of 5.70 (8.29) per cent.

The general death-rate in an infectious diseases hospital is liable to great fluctuation according to the epidemic prevalence of one or more diseases. In this way only we can account for the lower death-rate in the year under report compared with the previous year.

The total number of beds available in the hospital for males and females is as follows:—

Males.	Females.	Total.
243	33	276
(240)	(30)	(270)

The following table gives the percentage proportion of the different races treated :—

**Table No. VIII.**

Year.	Europeans and Anglo-Indians.	Burmese.	Mohammedans.	Hindus.	Other Classes.
1932	2.42	7.53	14.84	74.11	1.10
1933	9.15	13.66	16.86	55.94	4.39

The largest number of admissions have been from the Hindus and Mohammedans. Of the total number of cases treated, there were 77 Europeans and Anglo-Indians, 115 Burmese, 142 Mohammedans, 471 Hindus and 37 Other Classes, giving a percentage proportion as shown in Table No. VIII.

**VII.—Prevailing Diseases :—**

**Table No. IX.**

Diseases.	1932.	1933.
Plague ...	18	7
Cholera ...	6	5
Small-pox ...	1,359	87
Chicken-pox ...	1,689	261
Measles ...	105	86
Mumps ...	130	223
Diphtheria ...	13	18
Erysipelas ...	9	12
Cerebro-Spinal Meningitis ...	1	1
Influenza ...	...	...

The following table gives the total number of cases of different diseases treated during the year under report with the total number of deaths and the



case mortality rate per cent of the respective diseases as compared with the previous year :—

**Table No. X.**

Diseases.	1932.			1933		
	Total No. treated.	No. of deaths.	Case mortality per cent.	Total No. treated.	No. of deaths.	Case mortality per cent.
Plague ...	18	13	72'22	7	5	71'43
Cholera ...	6	2	33'33	5	4	80'00
Small-pox ...	1,359	239	17'59	87	10	11'49
Chicken-pox ...	1,689	...	...	261	...	...
Measles ...	105	2	1'90	86	...	...
Mumps ...	130	...	...	223	...	...
Diphtheria ...	13	2	15'38	18	4	22'22
Erysipelas ...	9	1	11'11	12	2	16'16
Cerebro-Spinal Meningitis.	1	1	100'00	1	1	100'00
Influenza ...	...	...	...	...	...	...
Diarrhoea ...	7	2	28'57	13	4	30'77
Adenitis ...	13	...	...	3	...	...
All other diseases.	207	33	18'94	126	18	14'29

The 18 fatal cases recorded under all other diseases during the year were due to the following causes :—Dysentery 1, Pneumonia 6, Pyrexia of uncertain origin 1, Ankylostoma 1, Round Worm 1, Pneumococcal Meningitis 1, General Debility 1, Valvular Disease of the Heart 1 and Gastro-Enteritis 5.

### Plague.

7 cases of Plague were treated during the year under report of which 5 were males and 2 females. There were 2 recoveries and 5 deaths giving a case mortality rate of 71'43 (72'22) per cent. Out of 5 males, 3 died. Both the female cases proved fatal.

The following table gives the duration of the illness on the day of admission into the hospital :—

**Table No. XI.**

Total No. treated.	On 1st day.	On 2nd day.	On 3rd day.	On 4th day.	More than 4 days.	Duration unknown.
7	...	2	1	1	3	...

The following table gives a list of Plague cases that proved fatal within six hours, twelve hours and twenty-four hours of their admission into the hospital :—

**Table No. XII.**

Total No. of deaths.	No. of deaths within six hours of admission.	No. of deaths within twelve hours of admission.	No. of deaths within twenty-four hours of admission.	Grand Total No. of deaths within twenty-four hours of admission.
5	1	...	1	2

The following table gives the variety of the disease with the total number of admissions, deaths and the case mortality rate under the respective heads :—

**Table No. XIII.**

Varieties.	Total No. treated.	No. recovered.	No. died.	Case mortality rate per cent.
Bubonic ...	7	2	5	71.43
Pneumonic ...	...	...	...	...
Septicaemia ...	...	...	...	...
Cutaneous ...	...	...	...	...

**Table No. XIV.**

Month.	No. admitted.	No. cured.	No. died.	Case mortality rate.
Remaining from previous year.	...	...	...	...
January ...	...	...	...	...
February ...	1	1	...	...
March ...	1	1	...	...
April ...	...	...	...	...
May ...	1	...	1	100.00%
June ...	...	...	...	...
July ...	...	...	...	...
August ...	...	...	...	...
September ...	2	...	2	100.00%
October ...	1	...	1	100.00%
November ...	1	...	1	100.00%
December ...	...	...	...	...
<b>TOTAL ...</b>	<b>7</b>	<b>2</b>	<b>5</b>	<b>71.43%</b>



**Cholera.**

5 cases of Cholera were treated during the year of which 1 recovered and 4 died, giving a case mortality of 80·00 per cent.

Of the total of 5 cases treated in the hospital, 4 were given intravenous saline injections on one or more occasions as required, all four died. The remaining 1 who was not given any saline injection owing to pulse and blood pressure being good, recovered.

The higher death rate during the year under report 80·00 (33·33) was due to patients having been in a very collapsed condition at the time of admission.

The following table gives the number of cases admitted month by month during the year under report with their respective number of recoveries, deaths and the case mortality per cent.

**Table No. XV.**

Months.	No. admitted.	No. cured.	No. died.	Case mortality.
Remaining from previous year.	...	...	...	...
January	...	...	...	...
February	...	...	...	...
March	...	...	...	...
April	2	1	1	50·00%
May	1	...	1	100·00%
June	...	...	...	...
July	2	...	2	100·00%
August	...	...	...	...
September	...	...	...	...
October	...	...	...	...
November	...	...	...	...
December	...	...	...	...
<b>Total</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>80·00%</b>

**Small-pox.**

87 cases of Small-pox were treated during the year of which 78 were males and 9 females. Out of 87 cases treated 71 recovered, 10 died (and 6 were remaining at the end of the year), giving a case mortality rate of 11·49 per cent.

The following table gives the total number of attacks and deaths in the males and females of the various communities :—

**Table No. XVI.**

			Europeans and Anglo-Indians.		Burmese.		Moham-medans.		Hindus.		Other classes.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Attacks	...	...	2	...	8	5	13	2	54	2	1	...
Deaths	...	...	...	...	2	...	...	...	7	1	...	...

The following table gives the seasonal variation of Small-pox during the year as compared with the previous year :—

**Table No. XVII.**

				1932.	1933.
Remaining from previous year	...	...	...	13	2
January	...	...	...	110	4
February	...	...	...	362	15
March	...	...	...	548	13
April	...	...	...	220	11
May	...	...	...	56	18
June	...	...	...	21	4
July	...	...	...	16	2
August	...	...	...	5	2
September	...	...	...	1	3
October	...	...	...	2	...
November	...	...	...	3	6
December	...	...	...	2	7
TOTAL				1,359	87



Vaccinal condition of Small-pox during the year :—

(a) Total number of protected cases—57.

The following table gives a statement of the protected cases :—

**Table No. XVIII.**

No. protected by vaccination.	No. vaccinated and had previous attack of Small-pox.	No. unvaccinated but had previous attack of Small-pox.	No. inoculated.	Total No. protected.
57	...	...	...	57

(b) The total number of unprotected cases was 30.

(c) Statement of adults and children protected and unprotected.

**Table No. XIX.**

Protected.		Unprotected.	
Adults.	Children.	Adults.	Children.
54	3	24	6

(d) Statement of attacks amongst the unprotected.

**Table No. XX.**

Variety.	1932.			1933.		
	No. of cases.	No. of deaths.	Case mortality rate.	No. of cases.	No. of deaths.	Case mortality rate.
Modified	1	...	...	...	...	...
Discrete	10	...	...	1	...	...
Confluent	536	178	33·21 %	29	8	27·59 %
Haemorrhagic	6	6	100·00 %	...	...	...
Total	553	184	33·27 %	30	8	26·66 %

(e) Statement of attacks amongst the protected.

**Table No. XXI.**

Variety.	1932.			1933.		
	No. of cases.	No. of deaths.	Case mortality rate.	No. of cases.	No. of deaths.	Case mortality rate.
Modified ...	10	...	...	7	...	...
Discrete ...	278	...	...	25	...	...
Confluent ...	511	48	9.39 %	25	2	8.00 %
Haemorrhagic ...	7	7	100.00 %	...	...	...
Total ...	806	55	6.82 %	57	2	3.51 %

The following table gives the total number of admissions, recoveries and deaths with case mortality rate of all the cases of Small-pox treated during the year :—

**Table No. XXII.**

Total No. treated.	Recovered.	Died.	Case mortality rate per cent.	Remaining at the end of the year.
87	71	10	11.49 %	6

From the various tables given above, it will be seen that out of a total of 87 cases of Small-pox treated in the hospital during the year 57 were found to be protected and 30 unprotected.

Of the 57 protected, 7 had attacks of the Modified type, 25 Discrete, and 25 Confluent, of these 2 confluent died.

Of the 30 unprotected cases which included 6 children, 1 had an attack of the Discrete type and 29 Confluent ; 8 out of the Confluent died.

Of the 6 unprotected children, 1 had Discrete and 5 had Confluent type of the disease; 2 of the latter died.

The ages of the unprotected children were as follows :—

Age.	0—12 months.	1—5 years.	5—10 years.	Total.
No. of children	2	1	3	6



Of the 2 fatal cases amongst the protected group, the following vaccinal conditions were noted :—

Character of vaccination.	One mark.	Two marks.	Three marks.	More than three marks.
Faint ...	1	...	...	...
Moderate ...	...	...	...	1
Prominent ...	...	...	...	...

The age group of the 2 fatal cases was as follows :—

1—5 years.	5—10 years.	10—20 years.	20—30 years.	30—40 years.	Above 40 years.	Total.
...	...	...	1	1	...	2

The following table gives the total number of cases, varieties and case mortality rate amongst the protected and unprotected.

**Table No. XXIII.**

Variety.	Protected.			Unprotected.		
	Admitted.	Died.	Case mortality rate.	Admitted.	Died.	Case mortality rate.
Modified ...	7	...	...	...	...	...
Discrete ...	25	...	...	1	...	...
Confluent ...	25	2	8·00%	29	8	27·59%
Haemorrhagic ...	...	...	...	...	...	...
Total ...	57	2	3·51%	30	8	26·66%

From a comparison of the above figures, it will be noted that the severity of the disease and the death-rate are much higher amongst those unprotected by vaccination as compared to those that are vaccinated. Out of the 57 protected cases, only 2 died while out of the 30 unprotected, as many as 8 died. Nearly 97 per cent. of the latter were of the severe type.

The following table shows the prevalence of Small-pox from the year 1911 till the end of the year under report compiled from by the number of patients admitted into the hospital from year to year :—

**Table No. XXIV.**

Year.	Attacks.	Deaths.	Case mortality rate.
1911	824	238	28.88
1912	399	84	21.05
1913	223	44	19.73
1914	62	6	9.67
1915	243	49	20.16
1916	733	162	22.10
1917	158	8	5.06
1918	199	37	18.59
1919	1,120	289	25.80
1920	371	36	9.70
1921	83	9	11.84
1922	215	24	11.16
1923	626	153	24.44
1924	260	55	21.15
1925	1,448	257	17.75
1926	121	19	15.70
1927	649	114	17.56
1928	1,109	218	19.66
1929	47	11	23.40
1930	41	6	14.63
1931	65	11	16.92
1932	1,359	239	17.59
1933	87	10	11.49

### Chicken-pox.

The total number of cases of Chicken-pox treated during the year under report was 261 (1,689) which included 6 cases remaining from the previous year. There was no death amongst the cases treated.

### Measles.

86 (105) cases were treated during the year. 82 recovered and 4 were remaining at the end of the year. There was no death. During 1932, 105 cases were treated with 2 deaths giving a case mortality rate of 1.90 per cent.

### Mumps.

223 (130) cases of Mumps were treated during the year. There was no death.



### **Diphtheria.**

18 (13) cases of Diphtheria were treated during the year. Of these 13 (9) recovered and 4 (2) died giving a case mortality rate of 22·22 (15·38) per cent. One case was remaining at the end of the year.

### **Erysipelas.**

12 (9) cases of Erysipelas were treated during the year of which 9 (7) recovered, 2 (1) died giving a case mortality rate of 16·66 (11·11) per cent. One case was remaining at the end of the year.

### **Influenza.**

There were no cases of Influenza either this year or the year before.

### **Cerebro-Spinal Meningitis.**

Only 1 case of Cerebro-Spinal Fever was treated and proved fatal, giving a rate of 100·00 per cent. mortality. In the year 1932 also 1 case was treated which also proved fatal giving a case mortality rate of 100·00 per cent.

### **Diarrhoea.**

13 (7) cases of Diarrhoea were treated of which 4(2) died giving a mortality rate of 30·77 (28·57) per cent.

### **Adenitis.**

3 cases of Adenitis were treated during the year as cases of suspected Plague but the bacteriological examinations of the smears from the buboes were negative.

### **All Other Diseases.**

Under this heading have been included all other diseases noted under their respective nomenclature in Statistical Form Medical No. I.

126 cases were included under this heading of which 18 proved fatal. These fatal cases were Dysentery 1, Pneumonia 6, Pyrexia of uncertain origin 1, Ankylostoma 1, Round Worm 1, Pneumococcal Meningitis 1, General Debility 1, Valvular Disease of the Heart 1, and Gastre-Enteritis 5.

VIII. All the Surgical work done at this hospital was of a minor character, such as opening buboes, lumbar punctures, etc.



**IX.—Expenditure.**

				1932.	1933.
				Rs.	Rs.
(1) Establishment	...	...	...	72,169	62,863
(2) Medicines	{ Europe	...	...	2,303	1,492
	{ Country	...	...	583	183
(3) Diets	...	...	...	29,200	5,591
(4) Miscellaneous	...	...	...	15,209	5,037
(5) Buildings	{ New	...	...	6,273	3,467
	{ Repairs	...	...	4,508	3,292
Total				1,30,245	81,925

Decrease of expenditure will be found under all the heads. This was due to the fact that the year 1933 was a quiet year compared with the previous year when both Small-pox and Chicken-pox had broken out in a very severe epidemic form and extra expenditure had to be incurred under all heads to cope with the large number of patients treated during the year.

**Treatment of any note.**

*Plague.*—No special treatment has been adopted beyond attempting to maintain the heart's action under cardiac stimulants such as Camphor in oil, Digitalin, Strychnine, etc.

*Cholera.*—The treatment advocated by Sir Leonard Rogers has been adopted and has given satisfactory results.

*Small-pox.*—The eruptions are touched with a freshly prepared saturated solution of Potas Permanganas. In Confluent cases, the entire body is painted with the same solution.

*Microscope.*—The hospital has a microscope (oil immersion) but is old and all specimens of Stools, Urine, Blood, Sputum, Gland Smears, Throat-Swabs, etc., are sent to the Corporation Laboratory and the Pasteur Institute for examination.

**Concluding Remarks.**

I have to place on record the satisfactory manner in which the hospital staff, one and all have carried out their duties.

The *Times Press* has to be thanked for its generosity in supplying the hospital daily with its newspaper.

RANGOON :  
Dated 1st May, 1933.

J. HORMASJI, D.P.H.,  
Health Officer,  
Corporation of Rangoon.



## ANNUAL REPORT

### ON THE WORKING OF THE MUNICIPAL OBSERVATION HOSPITAL, RANGOON

*For the year ending the 31st December 1933.*

This hospital is purely an observation one for cases sent by the Port Health Authorities.

I. *Class of Hospital and Date of Opening.*—This hospital was transferred to the control of the Corporation on the 1st October 1920 and comes under Class III—Local Fund.

II. *Hospital Buildings.*—The buildings are in good condition and necessary repairs were carried out.

III. *Equipment.*—There is nothing to report regarding the equipment of this hospital as this is used purely for observation purposes.

IV. *Staff.*—The following is a list of the Staff :—

2 Wardboys.	1 Cook.
2 Sweepers.	1 Lampman-Waterman.
1 Female Attendant.	2 Gate Durwans.
1 Female Sweeper.	1 Mali.

V. *Hospital Finance and Management.*—All the charges incidental to the proper upkeep of the hospital are borne by the Corporation, the Local Government contributing Rs. 40,000 per year towards the maintenance of this and the Contagious Diseases Hospital.

VI. *Hospital Patients.*—

1932.			1933.		
Male.	Female.	Total.	Male.	Female.	Total.
667	121	788	415	82	497

*Daily average attendance :—*

1932.

6

1933.

4

The following table shows the percentage proportion of various communities treated :—

Europeans and Anglo-Indians.	Burmese.	Moham-medans.	Hindus.	Other Classes.
00·00	00·20	31·59	65·39	2·82

The following table gives the total number of cases found suffering from various diseases on or after admission into the hospital :—

Diseases.			1932.	1933.
Plague	...	...	...	...
Cholera	...	...	...	...
Small-pox	...	...	2	...
Chicken-pox	...	...	1	...
Measles	...	...	2	...
Mumps	...	...	1	...
Diphtheria	...	...	...	...
Erysipelas	...	...	...	...
Cerebro-Spinal Meningitis	...	...	...	...
Influenza	...	...	...	...
Diarrhoea	...	...	1	4
Adenitis	...	...	1	...
No appreciable disease	...	...	361	127
All other diseases	...	...	419	366
Total			788	497

Out of the total number of 497 cases treated during the year, 127 had no appreciable disease, giving a percentage of 25·55 to the total treated.

The 366 cases shewn under " All other diseases " consisted of 334 cases of fever which came down in a few days and the following other diseases :—

Dysentery	...	6	Valvular disease of the heart	...	1
Enteric Fever	...	1	Broncho-Pneumonia	...	2
Malaria	...	5	Ascites	...	1
Pneumonia	...	8	Mastitis	...	1
Tuberculosis of the lung	...	2	Disease of the skin	...	3
Pneumococcal Meningitis	...	1	Burns	...	1



*Expenditure—*

				1932.	1933.
				Rs.	Rs.
Establishment	...	...		2,420	2,066
Diet	...	...		244	171
Miscellaneous charges	...	...		1,187	1,003
Total				3,851	3,240

The decrease under "Establishment" was due to some leave vacancies not being filled up.

The decrease under "Diet" was due to the smaller number of patients *viz.*, 497 (788) treated during the year under report as compared with the previous year.

The decrease under "Miscellaneous charges" was due to the fact that in the previous year more electric current was used on account of extra temporary wards that were built in that year in the compound of this hospital during the epidemic season of small-pox and chicken-pox for the accommodation of the very large number of cases belonging to the Contagious Diseases Hospital. During the year under report, the extra temporary sheds had been removed.

No expenditure has been shown under "Medicines" as this is supplied by the Contagious Diseases Hospital.

J. HORMASJI, D.P.H.,

HEALTH OFFICER,

Corporation of Rangoon.

RANGOON:

Dated the 1st May 1934.

# ANNUAL REPORT ON THE WORKING OF THE LABORATORY, CORPORATION OF RANGOON,

*For the year 1933.*

The report is divided into three sections:

- (1) Chemical.
- (2) Clinical and Bacteriological.
- (3) Miscellaneous.

## Section I.—Chemical.

This includes also the clinical examination of urines. During the year under report, 2,926 samples were examined as against 2,309 samples in 1932—as shown below :—

	1932.	1933.
(a) General Chemical—		
(i) Articles of Food and Drink ... ..	716	555
(ii) Miscellaneous ... ..	77	71
(b) Urines ... ..	1,516	2,300
Total ... ..	2,309	2,926

A detailed consideration of these is given below :—

I. *Water.* 337 samples from sources as shown below :—

Sources.	No. of samples.
Hlawga Lake (monthly samples) ... ..	12
Taps and Stand-pipes, etc. ... ..	3
Wells (Surface) ... ..	2
Tube Wells ... ..	15
Pazundaung Creek ... ..	3
Gyobyu Dam ... ..	2
Unclassified ... ..	3
At Hlawga in connection with Chlorination ... ..	297
Total ... ..	337



Results of Hlawga Lake water analysis were normal throughout the year.

II. *Aerated Water samples—Lemonade, 23 samples.*—Of these, 2 samples were examined for the presence of Arsenic with negative results. Lead was absent in all, while traces of iron were present in few—the maximum being 0.2 parts per 100,000.

III. *Milk.*—72 samples which were reported as follows:—

Skimmed milk	....	....	....	....	1
Conforming to the Standard	....	....	....	....	44
Deficient in Solids not fat	....	....	....	....	6
Deficient in Fat	....	....	....	....	11
Deficient in all respects	....	....	....	....	10
Total					72

The bye-laws regarding milk have not been brought into force and those examined were mostly samples collected at random. It is noticeable of late that the practice is increasing among the suppliers of diluting Cow's and Buffalo's milk or Buffalo's milk alone with water so as to bring the mixture to the consistency of genuine Cow's milk with the result that it is practically impossible to get genuine cow's milk.

IV. *Condensed milk*:—66 Samples—

Nature of sample.	Conforming to Standard.	Bad.	Total.
Full cream, sweetened, condensed	16	4	20
Skimmed, sweetened, condensed ...	23	5	28
Full cream, unsweetened and evaporated ...	17	1	18
Total ...	56	10	66

Deterioration was chiefly responsible in the samples that were found bad. Although Condensed milk is being imported into Burma in large quantities and from different sources, it is rare to find a sample that does not conform to the standard. This is no doubt due to the result of the bye-laws being in operation during the last few years.

V. *Butter*.—27 samples and Ghee 1.—Of these 20 conformed to the standard and 8 were below the standard. With Butter samples the latter included only those which were high in moisture content. Boric acid was present in a few.

VI. *Miscellaneous Food and Drinks*.—29 samples—

Tinned Foods	...	...	6
Sauce	...	...	1
Margarine	...	...	1
Oils	...	...	4
Coffee Powders	...	...	4
Chilly Powder	....	....	1
Masala Powders	....	....	10
Jaggery	....	....	1
Orange Juice	....	....	1
Total			29

All the above samples with the exception of Orange Juice and two tinned foods (which had deteriorated) were wholesome. In the case of Masala and Chilly powders, the adulterant was chiefly rice bran.

VII. *Miscellaneous articles other than Food and Drinks included the following*:—

Flue dust	...	...	1
Ash and Earth	...	...	1
White Paint	...	...	2
Chlorolyte and Bleaching Powder	...	...	2
Colouring matter	...	...	3
Solignum	...	...	3
Coal	...	...	7
Tar	...	...	2
Ore (for detection of gold)	...	...	1
Damaged packets for insurance purposes			2
Sewage	...	...	47
Total			71



Weekly examination of Sewage samples undertaken in November 1931 by this Laboratory as recommended by the Sewage Disposal Committee was continued as hitherto up to December 1933, when with the approval of the Local Government it was discontinued. In the course of these examinations, sufficient data has been collected giving seasonal variations, etc., covering a period of just over two years.

### VIII. *Urines*.—2,300 specimens—

Source.	1932.	1933.
Contagious Diseases Hospital ...	63	44
Corporation Dispensaries and Depots ...	238	262
Private Medical Practitioners, etc. ...	1,215	1,994
Total ...	1,516	2,300

A large increase in these specimens is to be noted.

### Section II.—Clinical and Bacteriological.

40,519 specimens were examined during the year under report as against 40,833 in 1932 as shown below :—

	1932.	1933.
A. Articles of food and drink ...	408	320
B. Miscellaneous ...	3	1
C. Rats for P. B. examination ...	37,294	35,697
D. Pathological specimens ...	3,128	4,501
Total ...	40,833	40,519

Details of the specimens are shown below :—

1. *Water*.—207 samples of which 204 were for general examination and one each for the isolation of *B. Typhosus*, *Cholera Vibrio* and *B. Diphtheria* (all of which were negative).



<i>Sources.</i>					<i>No. of samples.</i>	
Hlawga Lake, unchlorinated	...	...	...	...	50	
Do chlorinated	...	...	...	...	50	
Laboratory tap, connected to gravity main	...	...	...	...	50	
Tube Wells	...	...	...	...	33	
Stand-pipe, storage taps, etc.	...	...	...	...	17	
Wells, Surface	...	...	...	...	6	
Kutchra tank	...	...	...	...	1	
					Total	207

While the samples of raw Hlawga water were of fair or low standard, the chlorinated water maintained throughout the year a very high standard of bacteriological purity. Of the 33 samples of Tube well water examined, 22 were of high standard while the rest showed presence of lactose fermentors in varying proportions. Samples from Stand-pipes with a few exceptions were good while the standard of purity of water samples from house-taps as usual depended on the degree of cleanliness with which the storage tanks were maintained. Surface well waters were all of low standard.

2. *Chlorination of Water.*—With the departure on leave in October 1933 of Dr. J. Das, Assistant Analyst, who was hitherto in charge of Chlorination, the work was entrusted to the Analyst, Mr. D. M. Gangolli. The plant operated satisfactorily throughout the year and there was at no time shortage of Chlorine Cylinders—and in fact at the end of December 1933 in view of the large number of cylinders in hand, forward shipments were cancelled for April and May 1934.

The surplus was due to the reduced dose of Chlorine now injected into the mains as a result of work carried out by the Analyst by modifying the method hitherto in use—of determining the Chlorine-requirement of the raw water. The full effect of these new changes had not been achieved before the year came to a close but in December 1933 the dose had been considerably reduced. Besides modifying the method referred to above, other changes being experimented upon includes the study of the effects on water of the gradual reduction of available Chlorine. Since Chlorination was introduced, this dose has been maintained at 0.5—0.6 parts per million but results so far obtained prove that this is too high and can be reduced without detriment to the high standard of purity of the water supplied. The excess, of course, is absorbed, if not by the water then by the vegetable or other growths in the mains, but is admittedly a waste besides being detrimental to the pumping machinery.

The procedure so far pursued in this experimental work does not mainly consist of Laboratory work. The application of Laboratory results to the problem is absolutely a process of elimination which entails considerable field work. The dose is reduced and samples from several sources, such as hydrants, are collected and examined and further reduction of the dose is made only when these samples respond to the reduced dose satisfactorily and so on,



The following table gives some useful details of interest in connection with water and chlorination :—

	1933.	1932.
Rainy days at Hlawga ... ..	150	151
Total rainfall at Hlawga, in inches ... ..	104·505	79·36
Lowest water level in Hlawga Lake, in feet ... ..	55·22 (May 23rd)	55·55
Highest water level in Hlawga Lake, in feet ... ..	62·80 (August 16th)	61·48
Overflow at Hlawga Lake ... ..	Once—August 5th at 62·59'	Nil
Total quantity of water supplied in million gallons ... ..	3735·08	4109·24
Total quantity of chlorine used in gallons ... ..	5087·8	5240·8
Minimum and maximum dose of chlorine, parts per million ... ..	0·7—1·3	0·8—1·4
Amount of available chlorine maintained—parts per million ... ..	0·5—0·6	0·5—0·6
Average dose of chlorine used—parts per million ... ..	1·36	1·27
Average daily dose during 8 months of dry weather in lbs. ... ..	130·6	134·5
Average daily dose during 4 months of wet weather in lbs. ... ..	157·4	160·4
Average daily dose for the whole year in lbs. ... ..	143·8	147·5

3. *Aerated Waters*—24 samples.—Of these 2 were for the isolation of *Cholera vibrio* giving negative results.

High standard of Bacteriological purity ... ..	20
Low standard of Bacteriological purity ... ..	2
Total ... ..	<u>22</u>

#### IV. *Milk*.—89 samples—

For general bacteriological examination...	79
For T. A. B. (with negative results) ....	5
For T. B.                   "                   "                   ...	4
For B. Diphtheria       "                   "                   ....	1
Total ... ..	<u>89</u>

Of the samples sent for general examination, only six showed fair or good standard, others being unsatisfactory and highly polluted. A study of

these results points to the extent to which milk undergoes contamination before it reaches the Consumer.

V. *Disinfectant*.—One sample for Rideal-Walker Carbolic coefficient.

VI. *Rats*.—35,697 rats were examined out of which 14 were found infected with Plague bacilli as against 37,294 in 1932 with 36 infected. These were received from the following circles:—

Circle.				Total No. of rats examined.	No. found infected.
North Kemmendine	...	...	...	5,182	...
South Kemmendine	...	...	...	2,791	1
Lanmadaw	...	...	...	1,925	2
Taroktan	...	...	...	2,219	2
West Town	...	...	...	4,406	2
East Town	...	...	...	3,746	...
Botataung	...	...	...	4,758	3
Theinbyu	...	...	...	5,654	3
Tamwe	...	...	...	1,487	...
Dalla	...	...	...	1,716	...
Kanaungto	...	...	...	1,620	...
Port Health Department	...	...	...	193	1
Total				35,697	14

Of the rats found infected 5 were G. B., 8 R. C. and 1 Mouse.

VII. *Pathological Specimens*.—4,501 specimens as against 3,128 in 1932—detailed figures being shown below:—

1. **Blood**—

For Malarial Parasites	...	253 (25+)
„ T. A. B.	...	27 (13+)
„ Kala Azar	...	13 (10+)
„ L. D. Bodies	...	21
„ Filaria	...	16
„ Plague bacilli	...	3 (1+)
„ B. Lepra	...	2
„ Spiro Pallida	...	1
„ Colour Index	...	1
„ Total Count	...	39
„ Differential Count	...	168
„ Haemoglobin	...	44
Total	...	588



**2. Stool—**

For Coma bacilli	...	48 (9+)
„ Amoeba and cysts	...	631 (184+)
„ B. Shiga	...	24 (1+)
„ B. Flexner	...	18
„ Ova, Ankylo	...	580 (15+)
„ „ Round worm	...	579 (29+)
„ „ Trichuris	...	11 (11+)
„ „ Strongyloids	...	4 (4+)
„ „ Thread worm	...	8 (8+)
„ „ Taenia Solium	...	2 (2+)
„ Tubercle Bacilli	...	10 (2+)
„ Gonococci (swab)	...	1
„ Occult Blood	...	7 (1+)
„ T. A. B.	...	1
„ Infusoria	...	3 (2+)
Total	...	<u>1,927</u>

**3. Sputum—**

For Tubercle Bacilli	...	458 (93+)
„ Pneumococci	...	300
„ Staphylococci	...	350
„ Streptococci	...	216
„ B. Influenza	...	112
„ Micro-Catarrhalis	...	28
„ B. Pertussis	...	1 (1+)
„ B. Fusiform	...	1 (1+)
„ Plague Bacilli	...	1
Total	...	<u>1,467</u>

**4. Throat Swabs—**

For B. Diphtheria	...	209 (4+)
„ Tubercle Bacilli	...	1
Total	...	<u>210</u>

**5. Ulcer Scraping—**

For B. Lepra	...	2
„ Spiro Pallida	...	2
„ Guinea Worm	...	1
„ B. Tetanus	...	1
Total	...	<u>6</u>

**6. Pus or other discharges—**

For Gonococci	...	162 (49+)
„ Staphylococci	...	18 (18+)
„ Coliform Bacilli	...	1 (1+)
„ Spiro Pallida	...	4 (2+)
„ Streptococci	...	3
„ B. Lepra	...	1
„ B. Fusiform	...	1
„ Spermatozoa	...	1 (1+)
„ B. Tetanus	...	1
„ any organism	...	1
Total	...	<u>193</u>

**7. Nasal Swab—**

For B. Lepra	...	<u>1</u>
Total	...	<u>1</u>

**8. Urine—**

For Gonococci	...	80 (16+)
„ B. Coli	...	18
„ Tubercle Bacilli	...	1
„ T. A. B.	...	2
Total	...	<u>101</u>

**Miscellaneous—**

9. Eyesmear for B. Diphtheria	...	2
10. Bovine Blood for Malarial Parasite	...	1
11. Hydrocele Fluid	...	1
12. Vomit for C. B.	...	2 (1+)
13. Gland smear for P. B.	...	1 (1+)
14. Cerebro-Spinal Fluid for Meningococci	...	1
Total	...	<u>8</u>



The pathological specimens mentioned above were received from the following sources :—

	Contagious Diseases Hospital.	Dispensaries and Depots.	Private Medical Practitioners.	Total.
Blood ...	14	77	495	586
Stool ...	245	124	1,560	1,929
Sputum ...	46	158	1,263	1,467
Throat swab ...	16	159	35	210
Pus or Urethral discharge ...	1	24	169	194
Urine ...	...	5	96	101
Nasal swab ...	...	...	1	1
Smear from Eye ...	...	2	...	2
Ulcer scraping ...	...	3	3	6
Bovine Blood ...	...	...	1	1
Vomit ...	1	...	1	2
C. S. Fluid ...	1	...	...	1
Hydrocele Fluid ...	1	...	...	1
Total ...	324	552	3,625	4,501
Total for 1932 ...	411	277	2,440	3,128

### Section III.—Miscellaneous.

This work comprised of the following :—

- |   |     |     |     |             |
|---|-----|-----|-----|-------------|
| (1) Packets sterilized                            | ... | ... | ... | 2           |
| (2) Distilled water supplied to other Departments | ... | ... | ... | 631 lbs.    |
| (3) Chlorine Solution                             | ... | ... | ... | 233 lbs.    |
| (4) Concentrated Arsenic Solution                 | ... | ... | ... | 13 gallons. |
| (5) Fly Paste                                     | ... | ... | ... | 15½ lbs.    |

### Section IV.—Staff.

The Analyst, Mr. D. M. Gangolli, proceeded on leave to England at the beginning of the year and Dr. J. Das, Assistant Analyst, officiated during the period. On return from leave Mr. Gangolli took over charge on the 2nd September 1933 and Dr. Das proceeded on 13 months' leave on the 1st October 1933. During both the leave vacancies, Dr. N. D. Malhotra, M.B., B.S., officiated as Assistant Analyst.

D. M. GANGOLLI,  
M. SC., B.A., F.I.C. (England),  
Analyst,  
Corporation of Rangoon.

Dated the 4th May 1934.



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# METEOROLOGICAL DATA OF THE CITY OF RANGOON FOR THE YEAR 1933.

LATITUDE 16°46' NORTH.

LONGITUDE 96°18' EAST.

Height of Cistern of Barometer above Sea-level—35·70 feet (Reduced level).

Months.		READING OF THERMOMETER.			Degree of humidity, complete saturation being 100.	Prevailing direction of wind.	RAINFALL.
		Dry.					Total fall of rain during the month.
		Maximum.	Minimum.	Mean daily value.			
January	...	92·4	66·8	79·6	78	N. 24 E.	...
February	...	92·4	67·5	79·9	88	N. 23 E.	...
March	...	95·5	71·7	83·6	83	S.	0·62
April	...	96·6	75·4	86·0	80	S. 57 W.	3·95
May	...	92·7	77·6	85·1	79	S. 50 W.	13·44
June	...	85·4	75·4	80·4	90	S. 13 W.	25·56
July	...	85·9	75·3	80·6	92	S. 3 W.	18·75
August	...	85·7	76·4	81·1	89	S. 20 W.	14·32
September	...	86·7	76·1	81·4	90	S. 51 E.	16·12
October	...	88·9	76·1	82·5	86	N. 42 E.	7·14
November	...	88·0	72·7	80·4	81	N. 45 E.	3·80
December	...	88·8	66·5	77·7	79	N. 30 E.	...







TABLE No. 2.—Statement of Deaths

1	2	3	4			5			6
Registration Circles.	Area in square miles.	Average population per square mile.	Population (Census 1931).			Number of Deaths Registered.			Number of deaths of males to every 100 deaths of females.
			Male.	Female.	Total.	Male.	Female.	Total.	
Kamayut ...	1'82	10,450'00	11,159	7,860	19,019	285	199	484	143'22
North Kemmendine ...	0'91	26,754'95	13,236	11,111	24,347	306	243	549	125'93
South Kemmendine ...	2'21	13,172'40	19,125	9,986	29,111	255	208	463	122'60
Lanmadaw ...	0'17	117,247'06	12,814	7,118	19,932	201	152	353	132'24
Taroktan ...	0'15	158,253'33	15,521	8,217	23,738	287	146	433	196'58
West Town ...	0'24	134,345'83	25,116	7,127	32,243	237	14	384	161'22
East Town ...	0'42	99,650'00	31,931	9,922	41,853	82	171	453	164'91
Botataung ...	0'47	42,727'66	13,421	6,661	20,082	264	109	373	242'20
Pazundaung ...	0'74	40,043'24	19,432	10,200	29,632	286	269	555	106'32
Theinbyu East ...	0'48	55,216'66	15,664	10,840	26,504	294	287	581	102'44
Theinbyu West ...	1'08	18,525'93	13,167	6,841	20,008	277	249	526	111'25
Tamwe ...	3'78	9,465'08	21,726	14,052	35,778	437	410	847	106'59
Kokine ...	4'84	4,597'73	14,291	7,962	22,253	179	148	327	120'95
Dala ...	3'50	4,870'29	12,134	4,912	17,046	162	111	273	145'95
Kanaungto ...	3'08	5,135'06	10,776	5,040	15,816	167	109	276	153'21
Cantonment ...	0'36	4,022'22	1,046	402	1,448	7	5	12	140'00
Hospitals and other Public Institutions ...	...	...	3,672	650	4,322	1,498	467	1,965	320'56
Rangoon River, Pegu River and Pazundaung Creek ...	7'69	...	...	...	...	...	...	...	...
Port (Travellers) ...	...	...	16,452	389	16,841	...	...	...	...
Railways (Travellers) ...	...	...	380	62	442	...	...	...	...
Total ...	31'94	12,536'48	271,063	129,352	400,415	5,424	3,430	8,854	158'10



by Registration Circles during the year 1933.

7

8

Deaths per 1,000 of Population from

Mean ratio of  
deaths per 1,000  
during previous  
five years.

Cholera.	Small-pox.	Measles.	Plague.	Enteric Fever.	Malaria.	Other Fevers.	Dysentery and Diarrhoea.	Tubercle of Lungs.	Respiratory Diseases.	Injury.	All other causes	All causes			Male.	Female.	Total
												Male	Female.	Total.			
..	'05	..	..	..	'21	..	1'42	3'47	4'84	'05	15'40	25'54	25'32	25'45			
..	..	..	..	..	'08	'08	1'07	2'22	4'60	'08	14'41	23'12	21'87	22'55			
..	..	..	..	..	'17	'07	'96	1'61	3'74	'07	9'20	13'33	20'83	15'90			
..	..	..	..	'05	'10	'05	'20	1'25	4'87	..	11'19	15'69	21'35	17'71			
..	..	'04	..	'04	'13	'08	'55	1'56	6'28	..	9'56	18'49	17'77	18'24			
..	'03	..	'03	'09	'09	'46	'53	1'21	2'79	'03	6'57	9'41	20'62	11'91			
..	'02	..	..	'07	'17	'52	'50	'76	2'44	'02	6'28	8'83	17'23	10'82			
..	'05	..	..	'25	'50	'40	1'14	'80	5'68	..	9'71	19'67	16'36	18'57			
..	..	..	..	'03	'34	'07	1'69	'47	5'77	'03	10'33	14'72	26'37	18'73			
..	..	..	..	'15	'07	'41	1'51	1'43	5'96	'04	12'34	18'77	26'47	21'92			
..	..	..	..	..	'10	'15	2'10	1'80	7'20	..	14'89	21'04	36'40	26'29			
..	..	..	'03	'03	'42	'05	1'42	1'23	6'32	'03	14'14	20'1	29'17	23'67			
'04	..	..	..	..	'27	'09	'81	1'12	3'14	'13	9'08	12'52	18'59	14'69			
..	..	..	..	..	'64	'35	1'23	1'29	4'75	'12	7'63	13'35	22'60	16'02			
..	..	'06	..	..	'50	'25	'76	'69	4'74	'13	10'31	15'50	21'63	17'45			
..	..	..	..	..	..	..	'69	1'38	4'83	..	1'38	6'69	12'44	8'29			
'92	2'31	..	1'62	7'63	6'01	3'47	14'81	59'46	55'30	45'81	256'13	407'68	718'46	454'65			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
'01	'03	'005	'02	'13	'29	'24	1'14	1'92	5'08	'54	12'67	20'00	26'52	22'11	25'29	34'82	82'28

TABLE No. 3.—Deaths by Registration Circles during each month of the year 1933.

Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Kamayut	36	40	37	39	42	35	41	42	51	37	35	49	484
North Kemmendine	42	35	41	49	42	41	45	52	43	45	59	55	549
South Kemmendine	37	28	34	39	37	39	39	35	44	37	48	46	463
Lamnadaw	30	19	27	23	19	34	34	36	24	34	34	39	353
Taroktan	39	28	28	35	35	35	43	34	38	35	48	35	423
West Town	31	33	35	47	29	25	36	34	30	19	31	34	384
East Town	44	46	37	38	35	36	35	32	41	32	36	41	453
Botataung	37	31	30	33	35	28	32	29	24	36	29	29	373
Pazundaung	47	40	46	44	37	53	42	51	43	43	61	48	555
Theinbyu East	46	41	44	45	47	49	55	47	52	55	51	49	581
Theinbyu West	35	39	45	30	40	44	45	43	37	44	58	66	526
Tamwe	70	52	74	64	66	75	77	65	77	73	85	69	847
Kokine	28	29	29	27	25	30	34	25	24	18	23	35	327
Dala	36	29	20	17	18	20	29	14	19	17	22	32	273
Kanaungto	28	25	22	19	19	26	33	22	15	22	17	28	276
Cantonment	1	1	1	1	3	1	...	...	...	...	3	1	12
Hospitals and other Public Institutions	149	152	178	138	162	149	186	180	154	187	193	137	1,965
Total ...	736	668	728	688	691	720	806	741	716	734	833	793	8,854



Table No. 4. - Deaths registered according to

Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi		Dala		Kokine		Tanne		Theinhu West		Theinhu East		I'pandahung		Hotsung		East Town		West Town		Tayokan		Lannadaw		South Kammashine		North Kammashine		Kannan	
Ratio per mile		Total deaths under 5 years		Ratio per mile		Total		Hospitals and other public institutions		Port		Cantonment		Kannagi																													

Table No. 4.—Deaths registered according to

1				2		3		4		5		6	
Registration Circles.				Under 5 years.				5 years and under 10 years.		10 years and under 15 years		15 years and under 20 years.	
				Census population, 1931.									
				Male, 15,191.		Female, 15,440.		Population, Census, 1931.		Population, Census, 1931.		Population, Census, 1931.	
				Under one year.		One and under 5 years.							
				Births.									
				Male, 4,879.	Female, 45,48.	Male.	Female.	Male, 15,928.	Female, 14,108.	Male, 17,352.	Female, 13,685.	Male, 29,555.	Female, 14,220.
				*Deaths.		Deaths.		Deaths.		Deaths.		Deaths.	
				Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Kamayut	...	...	66	62	27	17	2	7	1	11	7	6	
North Kemmendine	...	...	118	88	19	19	6	4	5	3	5	5	
South Kemmendine	...	...	100	80	23	20	6	7	3	3	7	10	
Lanmadaw	...	...	64	47	24	10	4	1	2	4	2	1	
Taroktan	...	...	56	39	34	27	7	4	...	3	3	4	
West Town	...	...	74	47	15	21	5	1	2	3	11	7	
East Town	...	...	84	67	17	12	6	4	6	2	8	5	
Botataung	...	...	64	35	7	7	3	1	3	1	8	5	
Pazundaung	...	...	100	81	29	29	3	4	6	2	5	10	
Theinbyu East	...	...	108	98	19	28	4	6	2	8	7	11	
Theinbyu West	...	...	91	95	19	14	3	5	6	3	..	3	
Tamwe	...	...	154	132	37	36	5	13	10	6	11	9	
Kokine	...	...	59	44	14	7	2	2	3	1	2	5	
Dala	...	...	42	32	13	15	1	4	...	1	3	1	
Kanaungto	...	...	46	27	15	13	3	3	3	3	2	5	
Cantonment	...	..	2	2	1	1	...	...	...	...	...	...	
Port	...	..	...	...	...	...	...	...	...	...	...	...	
Hospitals and other Public Institutions			143	76	18	27	13	10	19	15	60	24	
Total	...	...	1,371	1,052	331	303	73	76	71	69	141	111	
Ratio per mille	...	...	281.00		231.31								
Total deaths under 5 years	...	...	Male 1,702		Female 1,355								
Ratio per 1,000	...	..	112.04		87.87		4.59	5.39	4.09	5.04	4.77	7.80	

\* In the case of children under 1 year of age the ratios should be calculated on the number of The population figures on which ratios are to be calculated refer to the whole city under registra



age by Registration Circles during 1933.

7		8		9		10		11		12	
20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.		REMARKS.	
Population, Census, 1931.		Population, Census, 1931.		Population, Census, 1931.		Population, Census, 1931.		Population, Census, 1931.			
Male, 143,993.	Female.	Male.	Female, 48,274.	Male, 43,199.	Female.	Male.	Female, 18,592.	Male, 5,845.	Female, 5,053.		
Deaths.		Deaths.		Deaths.		Deaths.		Deaths.			
Male	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
35	18	34	16	34	16	27	16	52	30		
17	18	28	22	23	14	29	20	56	50		
21	20	21	24	18	16	27	6	29	22		
13	14	31	23	15	13	15	7	31	32		
18	19	38	10	43	9	40	10	48	21		
20	13	23	14	27	15	20	4	40	22		
30	21	34	14	37	13	26	6	34	27		
30	14	55	14	36	7	34	5	24	20		
32	25	27	29	31	20	21	14	32	55		
32	34	26	21	28	15	20	22	48	44		
21	15	23	28	25	17	19	9	70	60		
25	36	39	42	44	43	37	22	75	71		
21	14	16	10	16	18	15	9	31	38		
16	8	16	6	20	10	20	12	31	22		
11	8	20	10	16	14	17	6	34	20		
1	1	...	1	1	...	2	...	...	...		
...	...	...	...	...	...	...	...	..	...		
288	120	411	109	257	42	174	22	103	18	16 deaths excluded, age being unknown.	
631	398	842	393	671	282	543	190	738	552		
10'23		16'39		28'10		25'39		126'26 109'24			

births during the year, in all other cases on the number living at the time of census, tion.



TABLE No. 5.—Deaths registered according to Class by Registration Circles during the year 1933.

1	2					3					4							
	POPULATION ACCORDING TO CENSUS 1931.					NUMBER OF DEATHS REGISTERED.					RATIO OF DEATHS PER 1,000 OF POPULATION.							
	Christians.	Hindus.	Muhammadans.	Buddhists.	Other classes.	Total.	Christians.	Hindus.	Muhammadans.	Buddhists.	Other classes.	Total.	Christians.	Hindus.	Muhammadans.	Buddhists.	Other classes.	Total.
Registration Circles.																		
Kamayut	553	4,223	1,555	11,858	830	19,019	12	115	22	335	484	21.70	27.23	14.15	28.25	23.45	..	23.45
North Kemmendine	2,224	3,518	1,903	16,412	290	24,347	38	56	34	421	549	17.09	15.92	17.87	25.65	22.55	..	22.55
South Kemmen ine	4,480	9,709	3,147	10,285	1,490	29,111	48	128	43	244	463	10.71	13.18	13.66	23.72	15.90	..	15.90
Lamnadaw	431	5,860	1,425	10,927	1,289	19,932	1	70	15	267	353	2.32	11.95	10.53	24.43	17.71	..	17.71
Tarokian	369	3,905	1,455	6,692	11,317	23,738	5	39	21	368	433	13.55	9.99	14.43	54.99	18.24	..	18.24
West Town	721	12,974	15,497	2,058	993	32,243	9	146	197	27	384	12.48	11.25	12.71	13.12	5.04	..	11.91
East Town	5,949	19,671	10,813	3,960	1,460	41,853	49	226	107	68	453	8.24	11.49	9.90	17.17	2.05	..	10.82
Botataung	2,993	8,399	3,255	4,599	846	20,082	28	178	71	96	373	9.36	21.22	21.81	20.87	..	..	18.57
Pazundaung	938	13,069	5,413	9,435	777	29,632	10	214	94	237	555	10.66	16.37	17.37	25.12	..	..	18.73
Theinbyu East	2,830	8,402	5,023	9,824	425	26,504	58	164	120	239	581	20.49	19.52	23.89	24.33	..	..	21.92
Theinbyu West	2,934	7,973	3,104	5,598	399	20,008	108	171	73	170	526	36.81	21.45	23.52	33.68	10.03	..	26.29
Tamwe	1,571	11,180	5,782	16,766	479	35,778	39	215	131	470	147	19.10	19.23	22.66	28.12	2.09	..	23.67
Kokine	2,353	5,998	2,436	10,683	783	22,253	21	62	42	201	327	8.92	10.34	17.24	18.81	1.28	..	14.69
Dala	344	7,672	2,256	6,434	340	17,046	6	102	14	151	273	17.44	13.30	6.21	23.47	..	..	16.02
Kanaungto	139	7,431	1,985	5,944	317	15,816	2	110	18	146	276	14.39	14.80	9.07	24.56	..	..	17.45
Cantonment	480	600	265	83	20	1,448	3	8	..	1	12	6.25	13.33	..	12.05	..	..	8.29
Hospitals and other																		
Public Institutions	1,579	10,327	5,477	3,908	314	4,322	98	867	316	671	2	1,965	..	..	..	..	..	454.65
Port (Travellers)	..	..	..	..	..	16,841	..	..	..	..	..	..	..	..	..	..	..	..
Railways (Travellers)...	..	..	..	..	..	442	..	..	..	..	..	..	..	..	..	..	..	..
Total	30,888	140,901	70,791	135,466	22,369	400,415	526	2,871	1,318	4,112	16	8,854	17.03	20.38	18.63	30.35	0.72	22.11

\* Race of 10 deaths and race and sex of 1 death shown unknown.



**TABLE No. 6.**—*Statement showing the birth-rate and Infantile Mortality in each Circle of Rangoon City for the year 1933.*

Circles.	Estimated normal population of 1933.	Deaths under 12 months of age.	Total recorded births.	Estimated birth-rate calculated on estimated normal population.	Infantile mortality per 1,000 births.
Kamayut ...	15,720	128	587	37'34	218'06
North Kemmendine ...	22,222	206	721	32'45	285'71
South Kemmendine ...	19,972	180	1,006	50'37	178'93
Lanmadaw ...	14,236	111	454	31'89	244'49
Taroktan ...	16,434	95	447	27'20	212'53
West Town ...	14,254	121	699	49'04	173'10
East Town ...	19,844	151	805	40'57	187'58
Botataung ...	13,322	99	448	33'63	220'98
Pazundaung ...	20,400	181	716	35'10	252'79
Theinbyu East ...	21,680	206	853	39'35	241'50
Theinbyu West ...	13,682	186	562	41'08	330'96
Tamwe ...	28,104	286	913	32'49	313'25
Kokine ...	15,924	103	441	27'69	233'56
Dala ...	9,824	74	377	38'38	196'29
Kanaungto ...	10,080	73	388	38'49	188'14
Cantonment ...	804	4	10	12'44	400'00
Hospitals and other Public Institutions ...	1,300	219	...	...	...
Port (Travellers) ...	778	...	...	...	...
Railways (Travellers) ...	124	...	...	...	...
<b>Total ...</b>	<b>258,704</b>	<b>2,423</b>	<b>9,427</b>	<b>36'44</b>	<b>257'03</b>

TABLE No. 7.—Statement showing the number of Deaths

Months.		Cholera.			Small-pox.			Measles.			Plague.			Fevers.		
		1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933
January	...	1	...	...	...	38	...	...	...	...	1	1	...	22	30	26
February	...	...	...	...	...	109	3	...	1	1	...	8	1	29	25	25
March	...	...	...	...	1	198	2	1	2	...	1	4	2	22	29	25
April	...	...	...	1	1	98	3	...	...	1	1	6	...	26	31	22
May	...	1	1	1	5	28	2	...	...	...	2	...	1	30	36	28
June	...	2	2	1	3	12	1	...	...	...	1	2	1	28	30	19
July	...	1	...	2	1	7	1	...	...	...	2	1	...	22	21	22
August	...	2	...	...	1	...	...	1	...	...	1	4	...	16	21	18
September	...	1	...	...	1	...	...	...	...	...	2	...	2	17	20	15
October	...	1	...	...	1	1	...	...	...	...	1	...	1	21	20	26
November	...	...	...	...	...	...	1	...	...	...	1	...	1	23	36	24
December	...	1	...	...	6	2	1	...	...	...	1	1	...	18	24	27
Total	...	10	3	5	20	493	14	2	3	2	14	27	9	274	323	277



*in Rangoon Town from various causes for 1931, 1932 and 1933.*

Bowel complaints.			Respiratory Diseases.			Injuries.			Other causes.			Total.		
1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933	1931	1932	1933
52	57	39	211	246	226	37	25	17	393	489	428	717	886	736
40	24	26	197	229	196	26	22	23	400	416	393	692	834	668
37	39	28	192	238	232	21	32	23	354	411	416	629	953	728
42	27	23	234	232	224	30	27	12	356	388	402	690	809	688
48	29	27	243	220	210	23	29	21	408	377	401	760	720	691
91	66	47	335	237	251	26	20	14	465	427	386	951	796	720
91	90	60	284	243	230	15	16	15	144	484	476	860	862	806
51	61	45	249	275	250	24	21	26	463	444	402	808	826	741
50	39	30	248	256	237	20	25	13	499	420	419	838	760	716
54	38	52	282	273	237	30	16	20	520	485	398	910	833	734
42	36	38	240	292	255	16	13	19	450	431	495	772	808	833
46	31	43	213	257	253	19	10	12	478	463	457	782	788	793
644	537	458	2,928	2,998	2,801	287	256	215	5,230	5,235	5,073	9,409	9,875	8,854

TABLE No. 8.—Deaths Registered from Cholera by Registration Circles during each month of the year 1933.

1	2												3			4			5
Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			RATIO OF DEATHS PER 1,000 OF POPULATION.			Mean ratio per 1,000 during previous five years.
													Male.	Female.	Total.	Male.	Female.	Total.	
Kamayut	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lamadaw	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Faroktan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
East Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Botataung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pazundaung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tamwe	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..07	..	..	..04
Kokine	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Dala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kanaungto	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hospitals and other Public Institutions	..	..	..	1	1	..	2	..	..	..	..	..	4	..	4	1.09	..	..	..92
Total ..	..	..	..	1	1	1	2	..	..	..	..	..	5	..	5	0.02	..	0.01	0.10



**TABLE No. 9.**—Deaths registered from Small-pox by Registration Circles during each month of the year 1933.

1	2	3	4	5											
Registration Circles.	RATIO OF DEATHS PER 1,000 OF POPULATION.												Mean ratio per 1,000 during five years.		
	TOTAL.														
	Male.	Female.	Total.	Male.	Female.	Total.									
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	0.49
Kamayut	..	..	1	..	..	..	..	..	..	..	..	1	..	1	
North Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lanmadaw	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taroktan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Town	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
East Town	..	1	..	..	..	..	..	..	..	..	..	1	..	1	..
Botataung	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..
Pazundaung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tamwe	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kokine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kanaungto	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hospitals and other Public Institutions.	..	2	2	1	1	1	..	..	..	1	1	9	1	10	2.45
													1.54	2.31	
Total ..	..	3	2	3	2	1	1	..	..	1	1	11	3	14	0.04
													0.02	0.03	

TABLE No. 10.—Deaths registered from Measles by Registration Circles during each month of the year 1933.

1	2												3			4			5
	Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Male.	Female.	Total.	Ratio of Deaths per 1000 of Population.	Mean ratio per 1,000 during previous five years.
														Male.	Female.	Total.			
	Kamayut	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	North Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	South Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Lamnadaw	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	·06	·04
	Taroktan	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	West Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	East Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Botataung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Pazundaung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Theinbyu East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Theinbyu West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tamwe	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Kokine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Dala	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	·20	·06
	Kanaungto	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Port	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Hospitals and other Public Institutions.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	..	1	..	1	..	..	..	..	..	..	..	..	1	1	2	2	0·004	0·008



**TABLE No. 11.**—Deaths registered from Plague by Registration Circles during each month of the year 1933.

1	2												3			4			5	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			Male.	Female.	Total.		
													Male.	Female.	Total.					
Registration Circles.																				Mean ratio per 1,000 during previous five years.
Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lamadau	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taroktan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Town	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
East Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Botataung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pazundaung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Theinbyu East	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Theinbyu West	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Tamwe	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kokine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dala	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Port	...	...	2	...	1	...	...	...	2	1	1	...	...	5	2	7	1.36	3.08	1.62	...
Hospitals and other Public Institutions.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	1	2	...	1	1	...	...	2	1	1	...	7	2	9	0.03	0.02	0.02	0.24	...

TABLE No. 12.—Deaths registered from Enteric-fever by Registration Circles during each month of the year 1933.

1	2												3			4			5		
	Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.		Male.	Female.	Total.		Mean ratio per 1,000 during previous five years.	
														Male.	Female.						Total.
	Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	South Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Lanmadaw	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	
	Taroktan	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
	West Town	...	1	1	...	...	...	...	...	...	1	...	...	...	...	2	1	...	...	...	
	East Town	...	...	...	1	...	...	...	1	...	1	...	...	...	...	1	2	...	...	...	
	Botataung	...	1	...	1	...	...	...	1	...	1	...	...	...	...	4	1	...	...	...	
	Pazundaung	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
	Theinbyu East	...	1	...	...	1	...	...	1	...	...	...	...	...	...	3	1	...	...	...	
	Theinbyu West	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	
	Tamwe	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kokine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dala	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Hospitals and other Public Institutions.	3	4	5	2	3	2	4	4	1	2	3	...	...	29	4	33	7.90	6.15	7.63	
	Total ...	3	7	7	5	5	2	4	5	3	5	4	2	43	9	52	52	0.16	0.07	0.13	0.19



**TABLE No. 13.**—Deaths registered from Cerebro-Spinal Meningitis by Registration Circles during each month of the year 1933.

1	2												3			RATIO OF DEATHS PER 1,000 OF POPULATION.			Mean ratio per 1,000 during previous five years.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			Male.	Female.	Total.	
													Male.	Female.	Total.				
Registration Circles.																			
Kamayut	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lanmadaw	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taroktan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
East Town	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Botataung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pazundaung	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tamwe	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kokine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kanaungto	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hospitals and other Public Institutions.	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..
Total	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	0'002	0'01

TABLE No. 14.—Deaths registered from Diphtheria by Registration Circles during each month of the year 1933.

I	2												3			4			5			
	Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			Male.	Female.		Total.	Mean ratio per 1,000 during previous five years.	
															Male.	Female.						Total.
	Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
	North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Kemmendine	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	...	...	...	...
	Lanmadaw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Taroktan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	West Town	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	2	...	...	...	...
	East Town	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	1	1	...	...	...	...
	Botataung	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
	Pazundaung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Theinbyu East	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Theinbyu West	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tamwe	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...
	Kokine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dala	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Port	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospitals and other Public Institutions.	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	4	...	...	6.15	...	...
	Total	1	...	1	1	1	...	1	...	...	2	1	3	7	4	11	0.01	0.05	0.03	0.02	...	...



**TABLE No. 15.—Deaths registered from Puerperal Septicaemia by Registration Circles during each month of the year 1933.**

1	1933												Ratio of Deaths per 1,000 of Population.			Mean ratio per 1,000 during previous five years.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	January.			February.			March.			April.			May.				June.			July.			August.			September.			October.			November.			December.			TOTAL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Male.			Female.			Total.			Male.			Female.				Total.			Male.			Female.			Total.			Male.			Female.			Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Registration Circles.	Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE No. 16.—Deaths registered from Malarial Fever by Registration Circles during each month of the year 1933.

1	2												3			4			5	
	Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			Male.	Female.		Total.
														Male.	Female.	Total.				
Kamayut	...	...	...	...	...	...	1	...	1	...	...	1	1	3	1	4	.27	.13	.21	
North Kemmendine	...	...	...	...	...	...	1	...	...	...	1	...	2	2	...	2	.15	...	.08	
South Kemmendine	...	1	...	1	...	...	2	...	...	...	...	...	3	3	2	5	.16	.20	.17	
Lanmadaw	...	...	1	...	...	...	...	...	1	...	...	...	1	1	1	2	.08	.14	.10	
Taroktan	...	...	1	...	...	...	...	...	...	...	1	1	2	2	1	3	.13	.12	.13	
West Town	...	...	1	1	...	...	...	...	...	...	1	...	3	...	...	3	.12	...	.09	
East Town	...	1	1	1	...	...	...	...	1	1	3	...	7	...	...	7	.22	...	.17	
Botataung	...	...	...	1	1	1	1	1	...	1	3	2	8	2	...	10	.60	.30	.50	
Pazundaung	...	...	1	2	3	...	...	...	...	1	1	1	7	3	...	10	.36	.29	.34	
Theinbyu East	...	...	...	...	...	...	...	...	...	1	...	1	1	1	1	2	.06	.09	.07	
Theinbyu West	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	2	.07	.15	.10	
Tamwe	2	2	...	...	...	...	1	1	2	2	1	4	11	4	15	15	.51	.28	.42	
Kokine	...	1	...	1	1	...	2	...	1	...	...	...	5	1	6	6	.35	.12	.27	
Dala	2	...	1	1	1	1	1	...	1	...	...	...	8	3	11	11	.66	.61	.64	
Kanaungto	1	4	...	1	...	...	1	...	1	1	...	...	5	3	8	8	.46	.59	.50	
Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospitals and other Public Institutions.	6	3	3	...	1	1	4	1	2	...	1	4	1	23	3	26	6.26	4.61	6.01	
Total ...	14	12	7	9	7	12	5	8	7	12	14	9	90	26	116	...	0.33	0.20	0.29	
																			0.43	



**TABLE No. 17.**—Deaths registered from other Fevers including Influenza by Registration Circles during each month of the year 1933.

1	2												3			4			5
	Registration Circles.													RATIO OF DEATHS PER 1,000 OF POPULATION.			Mean ratio per 1,000 during five years.		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Male.	Female.	Total.			
Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
North Kemmendine	1	1	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...	...	
South Kemmendine	...	...	...	1	...	...	1	...	...	...	...	...	...	2	2	...	...	...	
Lanmadaw	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	
Taroktan	...	...	...	...	...	...	...	...	...	...	...	2	...	1	2	...	...	...	
West Town	2	2	1	2	1	...	3	...	...	1	1	...	8	7	15	...	...	...	
East Town	3	2	1	...	5	2	2	3	1	2	1	...	14	8	22	...	...	...	
Botataung	1	1	...	2	2	...	...	...	...	1	...	...	7	1	8	...	...	...	
Pazundaung	...	...	...	...	1	...	...	...	...	...	...	1	...	2	2	...	...	...	
Theinbyu East	1	...	2	1	2	...	...	...	...	1	1	3	6	5	11	...	...	...	
Theinbyu West	...	...	...	...	1	...	...	...	...	...	...	2	2	1	3	...	...	...	
Tamwe	...	...	...	...	...	1	...	...	1	...	...	...	2	...	2	...	...	...	
Kokine	...	...	...	...	...	2	...	...	...	...	...	...	1	1	2	...	...	...	
Dala	...	...	...	...	...	...	3	...	1	...	1	...	3	3	6	...	...	...	
Kanaungto	...	...	4	...	...	...	...	...	...	...	...	...	2	2	4	...	...	...	
Cantonment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospitals and other	...	...	2	1	3	...	2	2	2	2	1	...	10	5	15	...	...	...	
Public Institutions.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total ...	8	6	10	7	15	5	10	5	5	7	5	13	58	39	97	0.21	0.30	0.24	0.37

TABLE No. 17A.—Deaths registered from Influenza by Registration Circles during each month of the year 1933.

1	2												3			4		5	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.			RATIO OF DEATHS PER 1,000 OF POPULATION.			
													Male.	Female.	Total.	Male.	Female.		Total.
Registration Circles.																			
Kamayut	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
South Kemmendine	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lanmadaw	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tarokten	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Town	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
East Town	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Botataung	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..
Pazundaung	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Theinbyu East	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Theinbyu West	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tamwe	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kokine	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
Dala	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Kanaungto	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hospitals and other Public Institutions	..	..	..	..	..	..	1	..	..	1	..	..	2	..	2	..	..	..	..
Registration Circles																			
Total	..	..	..	1	..	..	4	..	..	1	..	..	6	..	6	0·02	..	0·01	0·04



**TABLE No. 18.**—Deaths registered from Diarrhoea and Dysentery by Registration Circles during each month of the year 1933.

Registration Circles.	1933												4		Mean ratio per 1,000 during previous five years.					
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	3			RATIO OF DEATHS PER 1,000 OF POPULATION.				
													TOTAL.			Male.	Female.	Total.	Male.	Female.
Kamayut	1	...	...	...	3	6	4	1	2	5	2	3	14	13	27	1.25	1.65	1.42		
North Kemmendine	3	...	3	1	1	4	3	4	2	2	2	1	13	13	26	.98	1.17	1.07		
South Kemmendine	3	1	...	1	4	3	4	2	2	5	3	...	17	11	28	.89	1.10	.96		
Lanmadaw	...	...	...	...	...	2	1	...	...	...	...	1	3	1	4	.23	.14	.20		
Taroktan	...	...	...	2	...	...	...	1	...	1	3	6	5	8	13	.32	.97	.55		
West Town	...	2	2	1	...	...	1	5	1	...	...	1	12	5	17	.48	.70	.53		
East Town	2	1	1	...	1	1	3	2	2	2	2	4	14	7	21	.44	.70	.50		
Botataung	2	1	1	1	2	2	7	1	3	2	...	1	19	4	23	1.41	.60	1.14		
Pazundaung	3	4	3	7	2	6	2	6	4	5	4	4	23	27	50	1.18	2.65	1.69		
Theinbyu East	4	3	2	1	1	2	8	3	4	7	4	1	18	22	40	1.15	2.03	1.51		
Theinbyu West	2	3	3	2	...	1	8	3	1	4	4	11	18	24	42	1.37	3.51	2.10		
Tamwe	3	3	5	1	5	8	6	5	4	6	4	1	21	30	51	.97	2.13	1.42		
Kokine	2	2	...	1	...	3	2	...	1	3	2	2	12	6	18	.84	.75	.81		
Dala	1	3	1	2	1	2	3	1	1	1	3	2	9	12	21	.74	2.44	1.23		
Kanaungto	2	...	3	...	...	1	...	...	...	...	1	2	8	4	12	.74	.79	.76		
Cantonment	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	2.49	.69		
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hospitals and other Public Institutions.	9	3	4	3	5	5	8	8	3	9	4	3	46	18	64	12.53	27.69	14.81		
Total	39	26	28	23	27	47	60	45	30	52	38	43	252	206	458	0.93	1.59	1.14		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.04		

TABLE No. 19.—Deaths registered from Tubercle of Lungs by Registration Circles during each month of the year 1933.

1	2												3			4			5
													TOTAL.		RATIO OF DEATHS PER 1,000 OF POPULATION.				
													Male.	Female.	Male.	Female.	Total.		
Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 during five years.
Kamayut	2	3	5	5	9	4	5	9	9	4	5	6	46	20	66	4.12	2.54	3.47	
North Kemmendine	2	...	3	8	2	4	5	8	4	9	7	2	29	25	54	2.19	2.25	2.22	
South Kemmendine	7	2	4	4	2	5	2	2	2	2	8	7	23	24	47	1.20	2.40	1.61	
Lannadaw	2	...	3	3	1	3	...	2	2	1	4	4	15	10	25	1.17	1.40	1.25	
Taroktan	2	2	2	2	3	2	1	2	7	5	7	2	28	9	37	1.80	1.09	1.56	
West Town	1	3	5	4	1	4	2	5	3	5	2	4	22	17	39	.88	2.38	1.21	
East Town	2	4	5	2	1	2	3	3	4	1	1	4	25	7	32	.78	.70	.76	
Botataung	2	...	2	2	...	3	1	1	1	3	...	1	10	6	16	.74	.90	.80	
Pazundaung	2	2	...	3	1	...	3	2	...	...	1	...	9	5	14	.46	.49	.47	
Theinbyu East	3	3	2	3	2	2	4	2	5	7	2	3	22	16	38	1.40	1.48	1.43	
Theinbyu West	2	2	2	2	1	1	1	6	5	4	6	4	19	17	36	1.44	2.48	1.80	
Tamwe	7	1	1	4	3	4	5	5	2	8	1	3	32	12	44	1.47	.85	1.23	
Kokine	...	4	1	4	...	1	3	4	1	1	1	5	15	10	25	1.05	1.26	1.12	
Dala	3	4	1	2	1	2	1	1	3	...	2	2	9	13	22	.74	2.65	1.29	
Kanaungto	...	1	1	...	2	...	2	2	1	...	1	1	3	3	11	.74	.59	.69	
Cantonment	...	1	...	1	...	...	...	...	...	...	...	...	1	1	2	.96	2.49	1.38	
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospitals and other Public Institutions ...	19	14	12	21	15	21	28	30	17	33	24	23	217	40	257	59.09	61.54	59.46	
Total ...	56	46	49	70	44	58	66	84	66	83	72	71	530	235	765	1.96	1.82	1.92	2.07



**TABLE No. 20.**—Deaths registered from Respiratory Diseases excluding Tubercle of Lungs by Registration Circles during each month of the year 1933.

[illegible]



**TABLE No. 21.**—Deaths registered from Injuries by Registration Circles during each month of the year 1933.

1	2												3			4		5
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.		Male.	Female.	Total.	
													Male.	Female.				
Registration Circles.																		
Kamayut	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	.05
North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	.09	.05
South Kemmendine	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	.07	.08
Lanmadaw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	.10	.07
Taroktan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Town	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	.04	.03
East Town	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	.03	.02
Botataung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pazundaung	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	.05	.03
Theinbyu East	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	.04	.03
Theinbyu West	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tamwe	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Kokine	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	.05	.03
Dala	...	1	...	2	...	...	1	...	...	...	...	...	...	...	3	...	.21	.13
Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	.16	.12
Cantonment	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	.18	.13
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospitals and other	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Public Institutions	16	21	23	10	20	10	12	23	13	20	19	11	35	198	163	53.85	44.39	45.81
Total	17	23	23	12	21	14	15	26	13	20	19	12	37	215	178	0.29	0.66	0.54
																		0.85



**TABLE No. 22.**—Deaths registered from All Other Causes by Registration Circles during each month of the year 1933.

1	2												3			4			5
													TOTAL.			RATIO OF DEATHS PER 1,000 OF POPULATION.			
Registration Circles.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 during previous five years.
Kamayut	28	27	25	21	25	18	29	21	29	20	20	30	158	135	293	14.16	17.18	15.40	
North Kemmendine...	29	25	25	31	31	23	29	28	30	22	42	36	195	156	351	14.73	14.04	14.41	
South Kemmendine...	21	14	22	26	27	20	22	23	26	18	25	24	154	114	268	8.05	11.41	9.20	
Lannadaw	16	11	16	15	14	19	24	25	12	24	19	28	119	104	223	9.29	14.61	11.19	
Taroktan	22	15	13	16	15	16	29	18	15	21	28	19	157	70	227	10.11	8.52	9.56	
West Town	20	18	15	28	18	10	20	16	21	7	17	22	122	90	212	4.86	12.63	6.57	
East Town	28	29	22	25	23	17	17	18	25	19	20	20	159	104	263	4.98	10.48	6.28	
Botataung	20	17	15	16	19	12	14	15	15	18	19	15	132	63	195	9.83	9.46	9.71	
Pazundaung	28	19	26	22	15	28	24	30	27	19	41	27	137	169	306	7.05	16.57	10.33	
Theinbyu East	25	23	26	25	23	28	30	24	30	29	30	34	162	165	327	10.34	15.22	12.34	
Theinbyu West	22	25	26	20	27	25	26	22	15	24	34	32	155	143	298	11.77	20.90	14.89	
Tamwe	40	38	44	44	41	41	44	32	50	41	50	41	237	269	506	10.91	19.14	14.14	
Kokine	19	15	21	15	21	14	26	11	15	9	16	20	97	105	202	6.79	13.19	9.08	
Dala	19	11	12	8	8	12	11	7	7	10	10	15	77	53	130	6.34	10.79	7.63	
Kanaungto	16	18	8	13	11	15	23	12	5	16	13	13	86	77	163	7.98	15.28	10.31	
Cantonment	...	...	...	...	1	...	...	...	...	...	1	...	1	1	2	.96	2.49	1.38	
Port	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospitals and other Public Institutions.	75	88	100	77	82	88	108	100	97	101	110	81	810	296	* 1,107	220.59	455.38	256.13	
Total	428	393	416	402	401	386	476	402	419	398	495	457	2,958	2,114	5,073	10.91	16.34	12.67	15.25

\* Sex of 1 death shown unknown.



TABLE No. 23.—Deaths from Diarrhoea and Dysentery registered according

1				2					
Registration Circles.				Population according to Census of 1931.					
				Christians.	Hindus.	Mohammedans.	Buddhists.	Other classes.	Total.
Kamayut	...	...	...	553	4,223	1,555	11,858	830	19,019
North Kemmendine	...	...	...	2,224	3,518	1,903	16,412	290	24,347
South Kemmendine	...	...	...	4,480	9,709	3,147	10,285	1,490	29,111
Lanmadaw	...	...	...	431	5,860	1,425	10,927	1,289	19,932
Taroktan	...	...	...	369	3,905	1,455	6,692	11,317	23,738
West Town	...	...	...	721	12,974	15,497	2,058	993	32,243
East Town	...	...	...	5,949	19,671	10,813	3,960	1,460	41,853
Botataung	...	...	...	2,993	8,389	3,255	4,599	846	20,082
Pazundaung	...	...	...	938	13,069	5,413	9,435	777	29,632
Theinbyu East	...	...	...	2,830	8,402	5,023	9,824	425	26,504
Theinbyu West	...	...	...	2,934	7,973	3,104	5,598	399	20,008
Tamwe	...	...	...	1,571	11,180	5,752	16,766	479	35,778
Kokine	...	...	...	2,353	5,998	2,436	10,683	783	22,253
Dala	...	...	...	344	7,672	2,256	6,434	340	17,046
Kanaungto	...	...	...	139	7,431	1,985	5,944	317	15,816
Cantonment	...	...	...	480	600	265	83	20	1,448
Hospitals and other Public Institutions	...	...	...	1,579	10,327	5,477	3,908	314	4,322
Port (travellers)	...	...	...	...	...	...	...	...	16,841
Railways (travellers)	...	...	...	...	...	...	...	...	442
Total				30,888	1,40,901	70,791	1,35,466	22,369	4,00,415



to class by Registration Circles during 1933.

3											4										
Number of deaths registered.											Ratio of deaths per 1,000 of population.										
Chris- tians.		Hindus.		Moham- medans.		Budd- hists.		Other classes.		Total.	Chris- tians.		Hindus.		Moham- medans.		Bud- dhists.		Other Classes.		Total.
Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.		Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	Diarrhoea.	Dysentery.	
...	...	5	3	1	2	9	7	...	...	27	...	...	1'18	'71	'64	1'29	'76	'59	...	...	1'42
2	2	2	1	2	1	8	8	...	...	26	'90	'90	'57	'28	1'05	'53	'49	'49	...	...	1'07
3	...	5	6	2	1	9	2	...	...	28	'67	...	'51	'62	'64	'32	'88	'19	...	...	'96
...	...	1	...	...	...	1	2	...	...	4	...	...	'17	...	...	...	'09	'11	...	...	'20
1	...	...	1	...	1	9	1	...	...	13	2'71	...	...	'26	...	'69	1'34	'15	...	...	'55
1	...	2	5	3	4	1	1	...	...	17	1'39	...	'15	'39	'19	'26	'49	'49	...	...	'53
2	3	5	3	4	3	1	...	...	...	21	'34	'50	'25	'15	'37	'28	'25	...	...	...	'50
...	2	6	9	1	3	1	1	...	...	23	...	'67	'72	1'07	'31	'92	'22	'22	...	...	1'14
1	1	24	4	5	5	8	2	...	...	50	1'07	1'07	1'83	'30	'92	'92	'85	'21	...	...	1'69
2	1	10	4	6	3	9	5	...	...	40	'71	'35	1'19	'48	1'19	'59	'92	'51	...	...	1'51
4	7	14	5	6	2	2	2	...	...	42	1'36	2'39	1'76	'63	1'93	'64	'36	'36	...	...	2'10
2	2	5	8	7	7	13	7	...	...	51	1'27	1'27	'45	'72	1'22	1'22	'78	'42	...	...	1'42
2	...	4	1	4	1	3	3	...	...	18	'85	...	'66	'16	1'64	'42	'28	'28	...	...	'81
...	...	3	4	...	...	10	4	...	...	21	...	...	'39	'52	...	...	1'55	'62	...	...	1'23
...	...	4	4	2	1	1	...	...	...	12	...	...	'54	'54	1'01	'50	'17	...	...	...	'76
...	...	1	...	...	...	...	...	...	...	1	...	...	1'67	...	...	...	...	...	...	...	'69
1	...	18	18	3	4	5	14	...	1	64	...	...	...	...	...	...	...	...	...	...	14'81
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	18	109	76	46	38	90	59	...	1	458	'68	'58	'77	'54	'65	'54	'66	'44	...	'04	1'14

**TABLE No. 24.**—Statement showing the Immigration and Emigration of the Port of Rangoon during the year 1933.

ARRIVAL FROM ALL PORTS.			DEPARTURE			
Adults.	Children.	Total.	TO FOREIGN PORTS.		TO INDIAN PORTS.	
			Adults.	Children.	Adults.	Children.
2,15,705	14,498	2,30,203	15,578	1,872	1,94,230	9,191
					17,450	
						2,03,421
Arrival at Rangoon ... 2,30,203			Departure to foreign Ports 17,450		Departure to Indian Ports ... 2,03,421	
<i>Deduct</i> Arracan Coast Passengers (6,410) and through passengers (14,043) ... 20,453			<i>Deduct</i> through passengers 9,068		<i>Deduct</i> Arracan Coast Passengers (5,622) and through passengers (2,874) ... 8,496	
Immigrants from all Ports... 2,09,750			Emigrants to foreign Ports 8,382		Emigrants to Indian Ports ... 1,94,925	

Total Emigrants ... 8,382 + 1,94,925 = 2,03,307.



**TABLE No. 25.**—Showing number of Burials and Cremations took place in different Cemeteries during the year 1935.

Serial No.	Name of Burial or Burning Ground.	No. of Burials passes issued.	No. of passes collected (including old and those from outside).
1	Ayeywa Cemetery, near Jamal's Land, Kemmendine	15	15
2	Seikkyi Cemetery, Kemmendine	12	12
3	Municipal Cemetery, Hanthawaddy Road	3,024	3,062
4	Karen Cemetery, Bagaya Road	37	37
5	Bhugwandass Cremation ground, Kemmendine	316	319
6	Armenian Cemetery, Stockade Road	1	1
7	Baptist Cemetery, Montgomery Street	20	21
8	Parsee Cemetery, U Ohn Ghine Road	4	4
9	Jewish Cemetery, U Ohn Ghine Road	13	14
10	Mogul Cemetery, U Ohn Ghine Road	37	38
11	Cantonese Cemetery, Culvert Road	205	207
12	Fukinese Cemetery, Tamwe Road	49	49
13	Municipal Cemetery, Tamwe	3,912	3,946
14	Saratee Mohamedan Cemetery, Tamwe	1,083	1,098
15	Partheingyi Cemetery, Dawbong	55	55
16	Arracan Cemetery, Dawbong	49	49
17	Steels Cemetery, Dawbong	3	3
18	Ayeywa Cemetery, Dawbong	2	2
19	Dalla Cemetery, Dalla	111	110
20	Hindu Cremation Ground, Dalla	74	74
21	Burmese Cemetery, Kamakasit East	10	10
22	Burmese Cemetery, Kamakasit West	31	31
23	Angyi Cemetery, Angyi Dalla	43	43
24	Minywa Seikkyi Cemetery, Dalla	18	18
25	Seikkyi Cemetery, Kanaungto	166	168
26	Sunni Mohlen Cemetery, Seikkyi	8	15
27	Burmese Cemetery, N. Kanaungto	52	52
28	Mohamedan Cemetery, N. Kanaungto	7	7
29	Cantonment Cemetery	27	29
30	Kamayut Cemetery	67	67
31	Roman Catholic Cemetery (closed) Pazundaung	3	3
32	Sunni Mohamedan Cemetery (closed) Stockade Road	2	2
33	Chittagonian Cemetery (closed) Stockade Road	4	4
34	Fukinese Cemetery (closed) Mill Road	1	1
35	Taunglonbryan Cemetery (closed) Mill Road	1	1
36	Patail's Private Cemetery, Hanthawaddy Road	1	1
37	Eastern Slopes of Shwedagon Pagoda (cremated)	3	3
38	Wingata Kygdike, Ngatlatgyi	2	2
39	Dawbon Kygdike, Ngatlatgyi	1	1
40	Payagyi Kygdike, Ngatlatgyi	1	1
41	Yedash Kygdike, Churchill Road	1	1
42	Shwegyin Kygdike, Churchill Road	1	1
43	Shwegardine Kygdike, Churchill Road	1	1
44	Webyan Kygdike, Campbell Road	1	...
45	Ngadatgyi Kygdike, Campbell Road	1	1
46	War Kyaung, Bagaya Kygdike, Kemmendine	1	...
47	Kwin Kyaung, Dalla	1	...
48	Paddy field, Dalla (Cremated)	1	1
49	Kyanggyidike, Kemmendine	...	1
50	Ayeywa Kyaung, Bagaya Road	...	1
51	Ohnbin Kyaung, Kyisu Dawbong	...	1
52	Removed to outside Corporation Limits	61	...
53	In Mortuary, Medical School, etc.	23	...
54	Retained in Museum	3	...
Total		9,365	9,583
No. of passes not received at the end of last year		42	Total No. of passes collected 9,583
Total No. of deaths during the year		8,854	No. of dead bodies removed to outside Corporation limits
Total No. of still births during the year		711	No. kept in museum for which no pass collected
No. of dead bodies brought from outside Corporation limits		89	No. of passes not collected
Total		9,696	No. of passes remained pending at the end of the year
			43
			Total 9,696

\* Passes for 6 still births from Dufferin Hospital were not collected as the Contractor for Pauper Burial failed to bury them, for which she was prosecuted and fined.

TABLE No. 25.—Showing number of Burials and Cremations took place in different Cemeteries during the year 1933.

Serial No.	Name of Burial or Burial Ground.	No. of Burials passed issued.	No. of Burials collected (including those from outside).
1	Ayeyar Cemetery, near Yam's Land, Kem-	13	13
2	Sekkyi Cemetery, Kemmangudi	13	13
3	Municipal Cemetery, Haddow's Road	3,024	3,024
4	Karen Cemetery, Baysa Road	37	37
5	Bhagawati Cremation ground, Kemmangudi	316	316
6	Armenian Cemetery, Stockade Road	1	1
7	Baptist Cemetery, Montgomery Street	20	21
8	Parsee Cemetery, U. Onn Ghee Road	4	4
9	Jewish Cemetery, U. Onn Ghee Road	13	14
10	Mogul Cemetery, U. Onn Ghee Road	37	38
11	Cantonment Cemetery, Chiver's Road	201	207
12	Turkish Cemetery, Tanwe Road	49	49
13	Municipal Cemetery, Tanwe	3,912	3,916
14	Sunni Mohan Cemetery, Tanwe	1,681	1,698
15	Patheingyi Cemetery, Dawbong	22	22
16	Armenian Cemetery, Dawbong	40	40
17	St. John's Cemetery, Dawbong	3	3
18	Ayeyar Cemetery, Dawbong	2	2
19	Dalla Cemetery, Dalla	141	110
20	Hindu Cremation Ground, Dalla	74	74
21	Burmese Cemetery, Kamakshi East	10	10
22	Burmese Cemetery, Kamakshi West	31	31
23	Anglo Cemetery, Ansoy Dalla	43	43
24	Minywa Sekkyi Cemetery, Dalla	13	18
25	Sekkyi Cemetery, Kanungo	100	108
26	Sunni Mohan Cemetery, Sekkyi	8	13
27	Burmese Cemetery, N. Kanungo	23	22
28	Mohammedan Cemetery, N. Kanungo	7	7
29	Cantonment Cemetery	37	20
30	Kanungo Cemetery	67	67



Chart A.

ANNUAL BIRTH RATES FROM 1912 TO 1933.

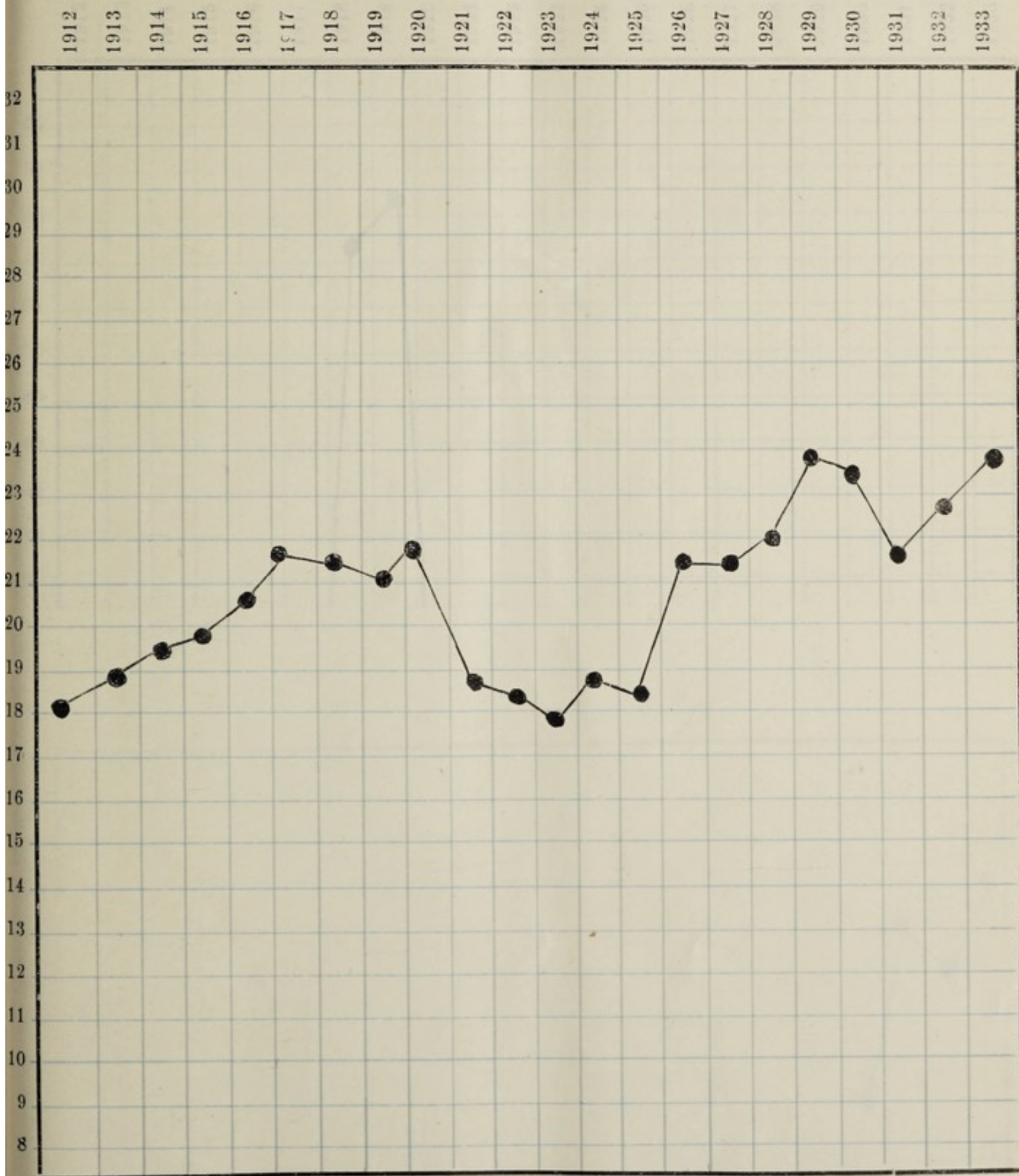
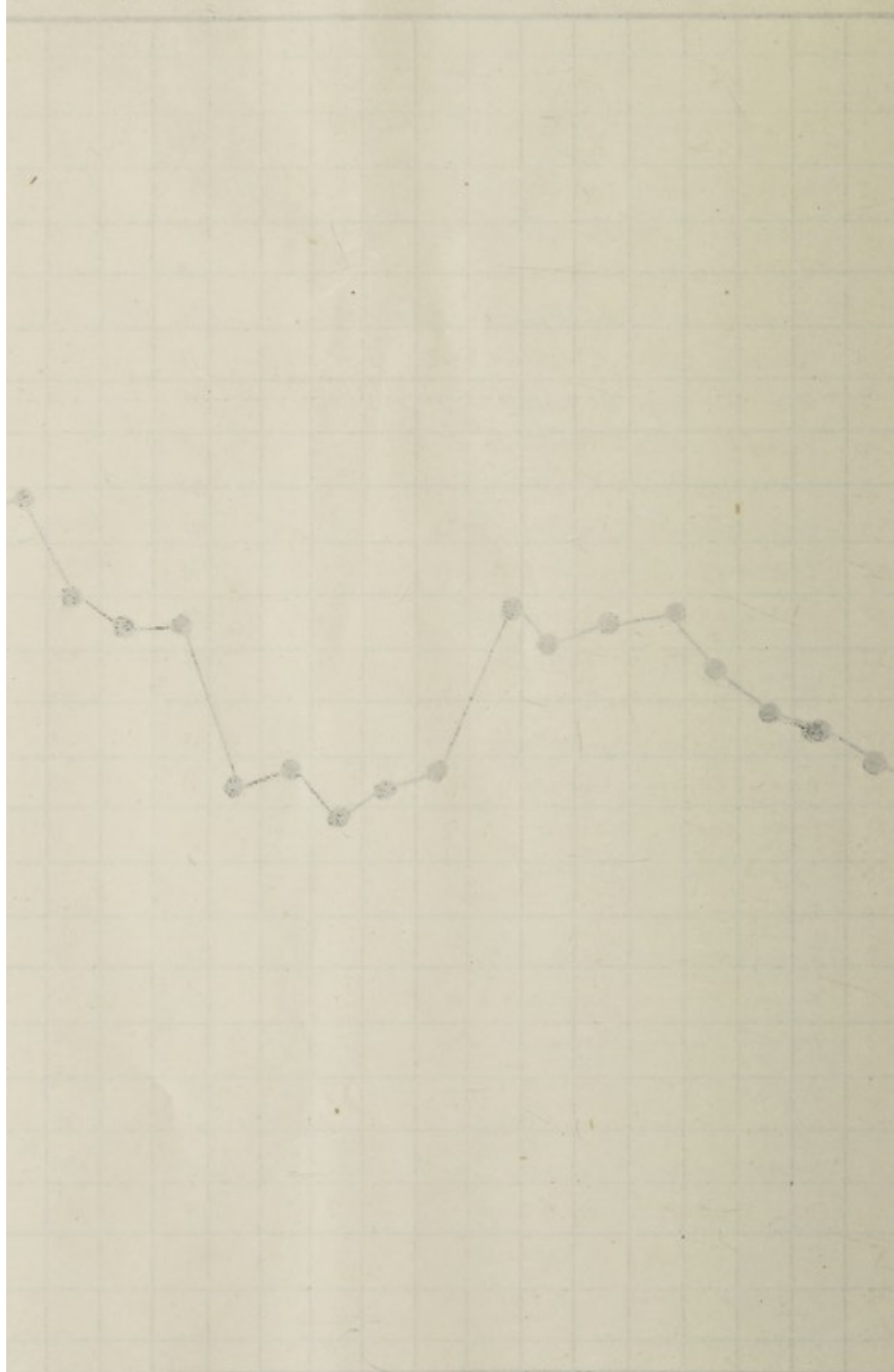


Chart A.

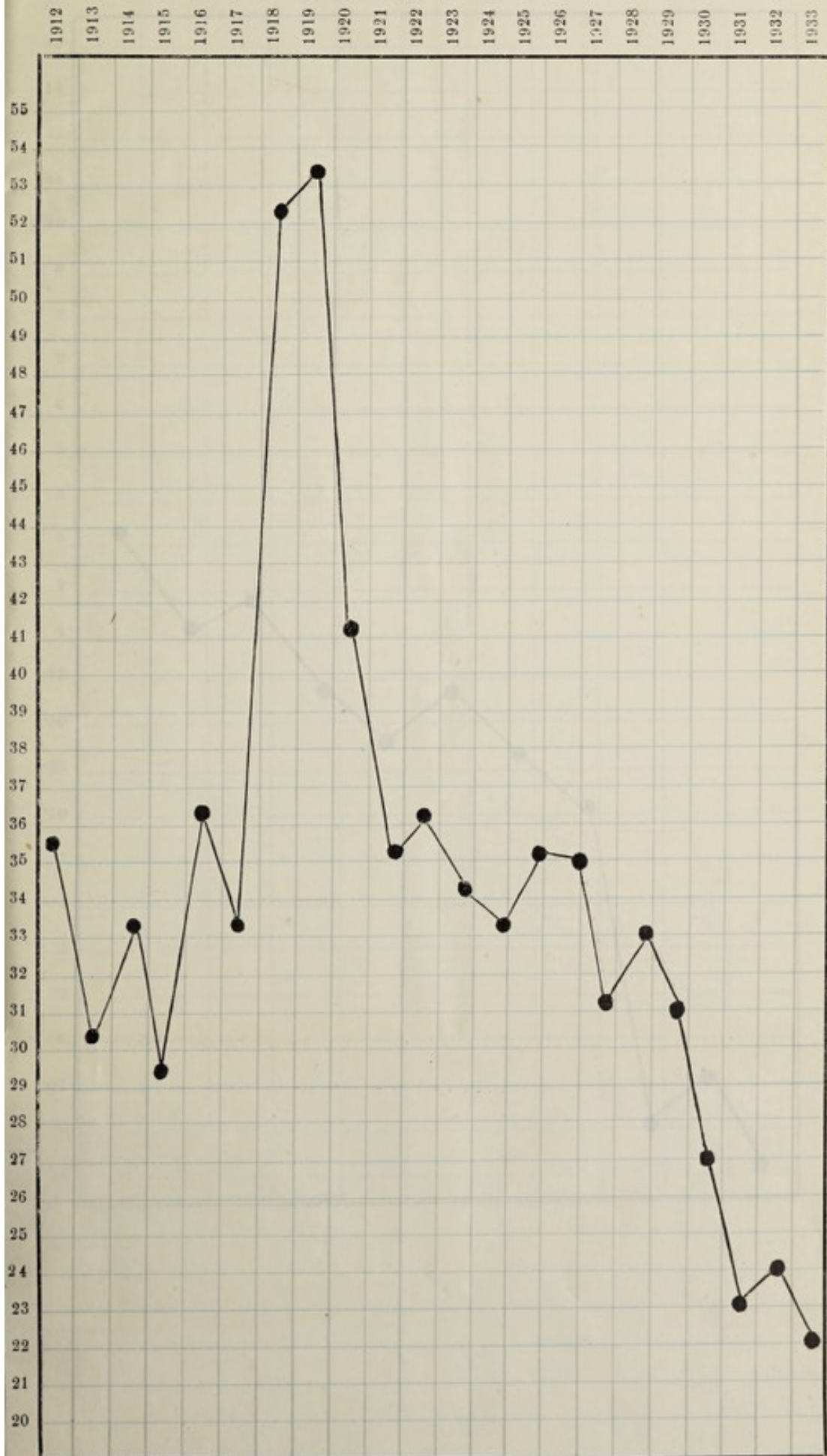
ANNUAL BIRTH RATES FROM 1912 TO 1933.

1933  
1932  
1931  
1930  
1929  
1928  
1927  
1926  
1925  
1924  
1923  
1922  
1921  
1920  
1919  
1918  
1917  
1916  
1915  
1914  
1913

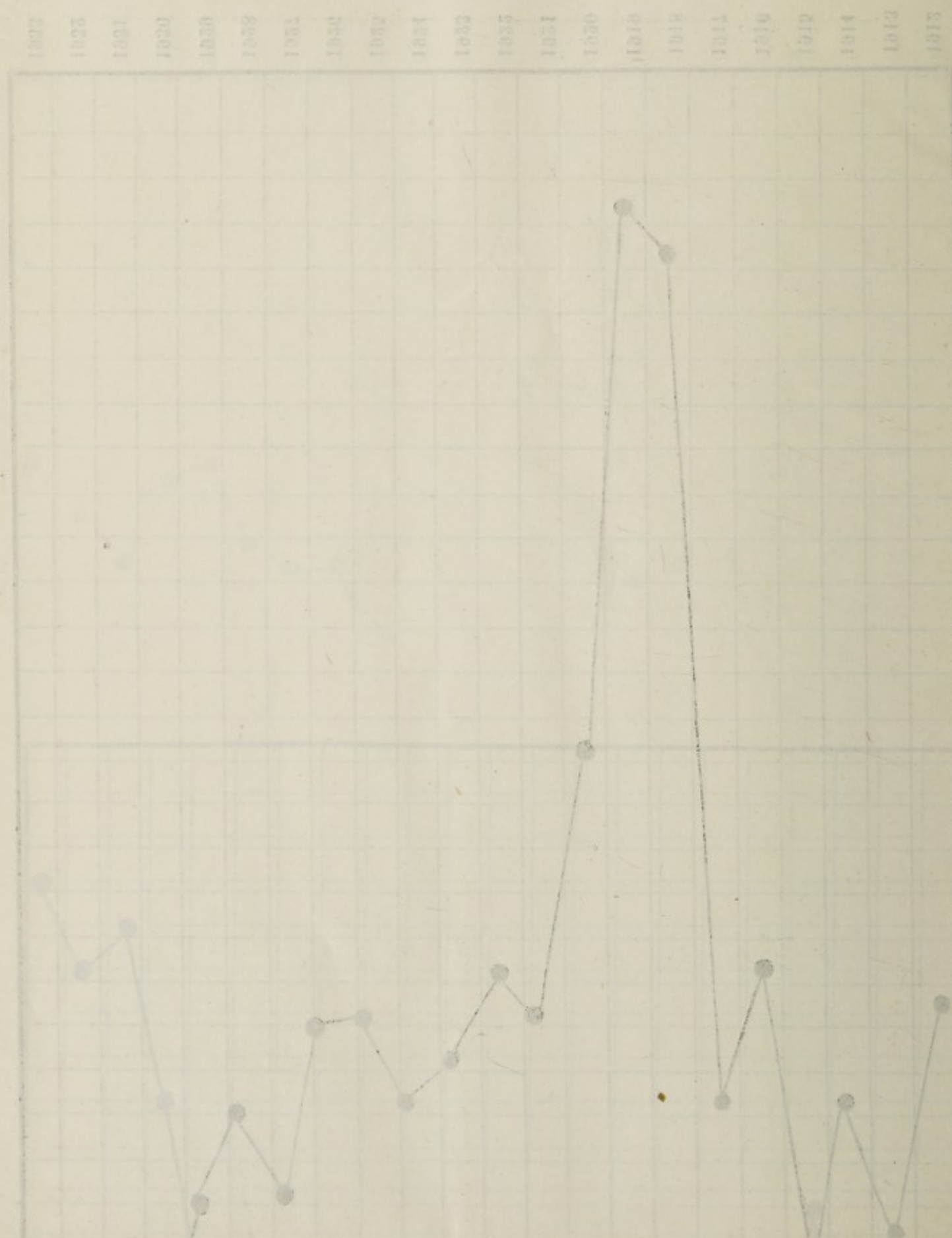




## ANNUAL DEATH RATES FROM 1912 TO 1933.

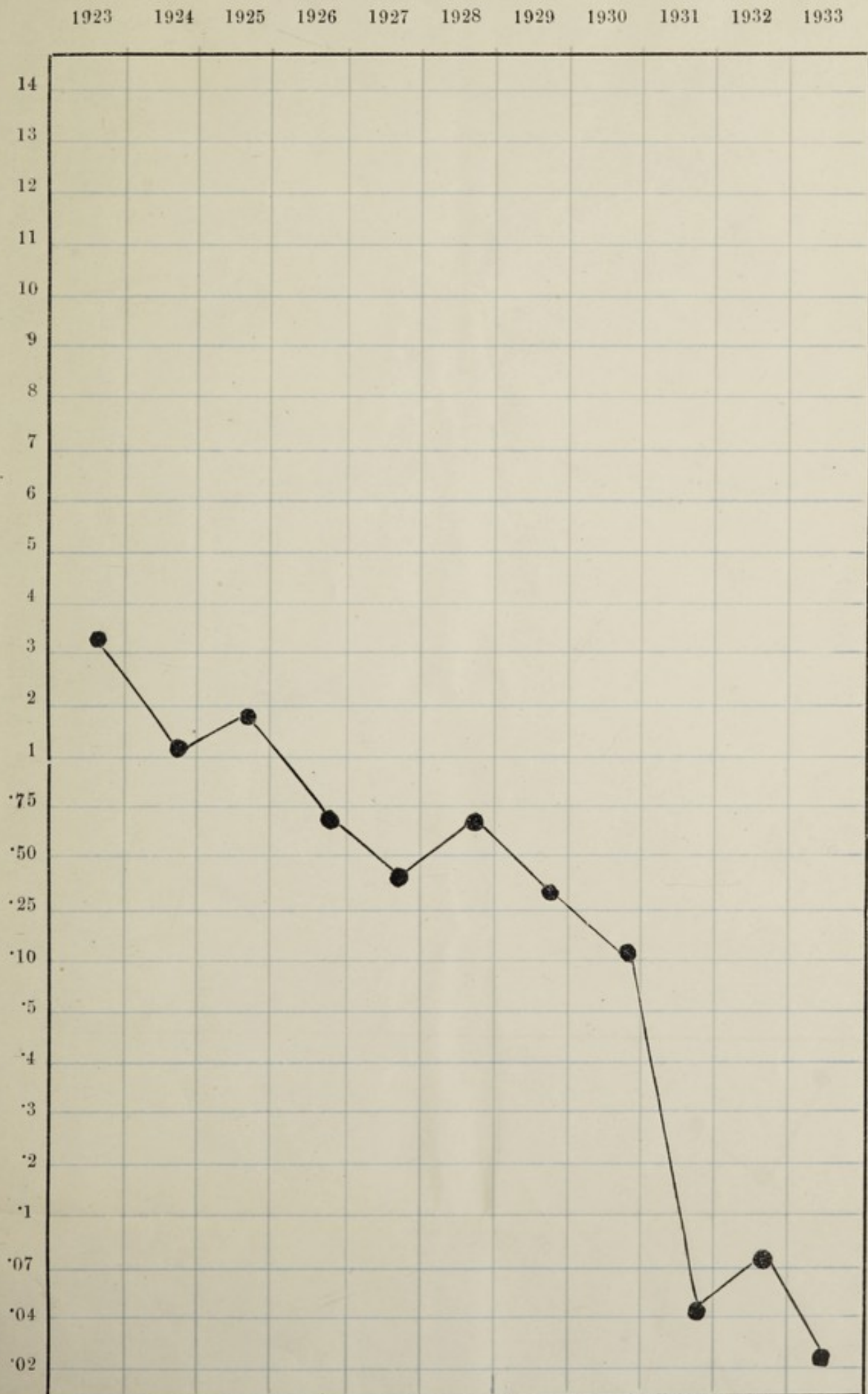


## ANNUAL DEATH RATES FROM 1912 TO 1933.



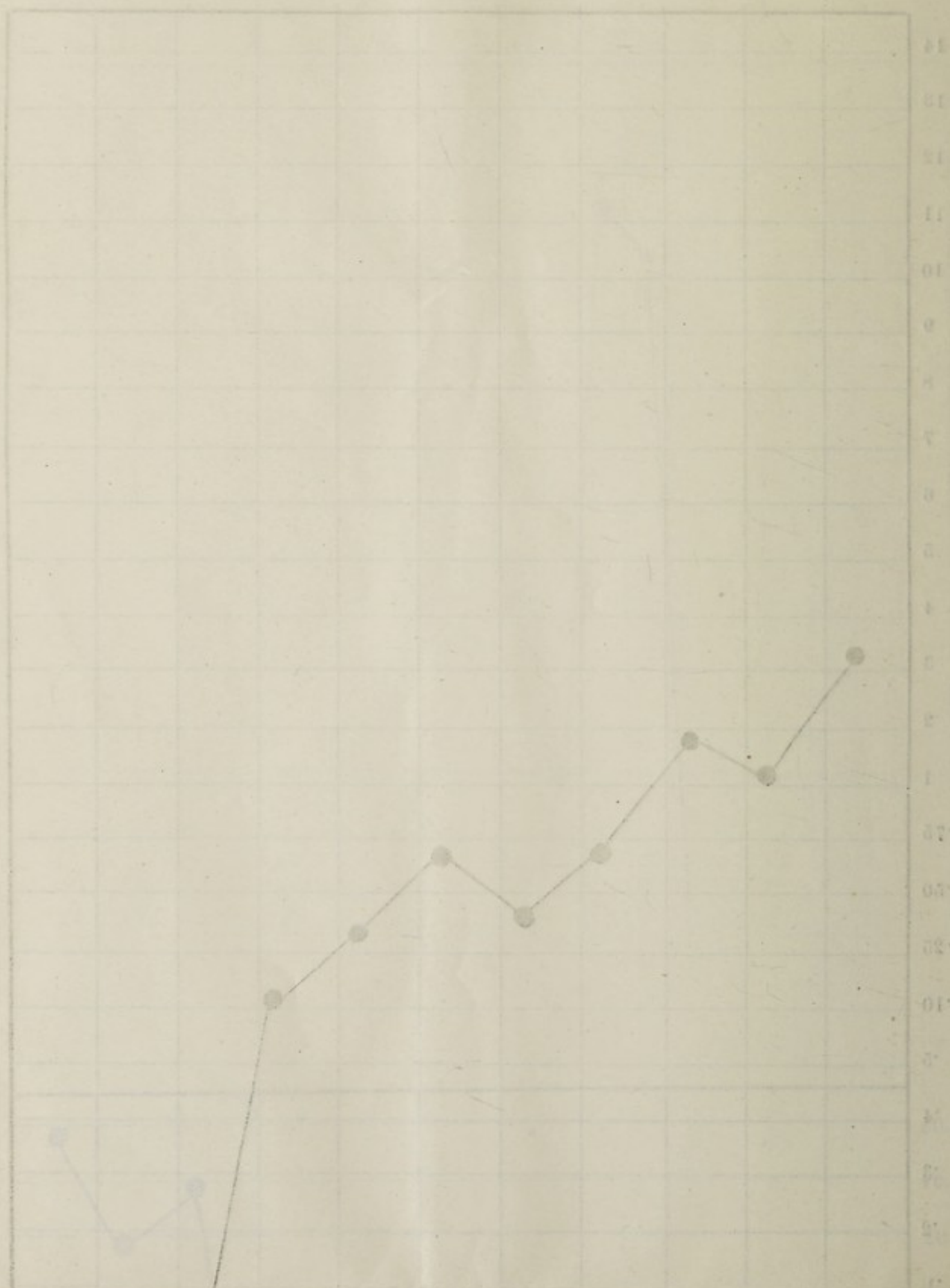


## ANNUAL DEATH RATES FROM PLAGUE FROM 1923 TO 1933.



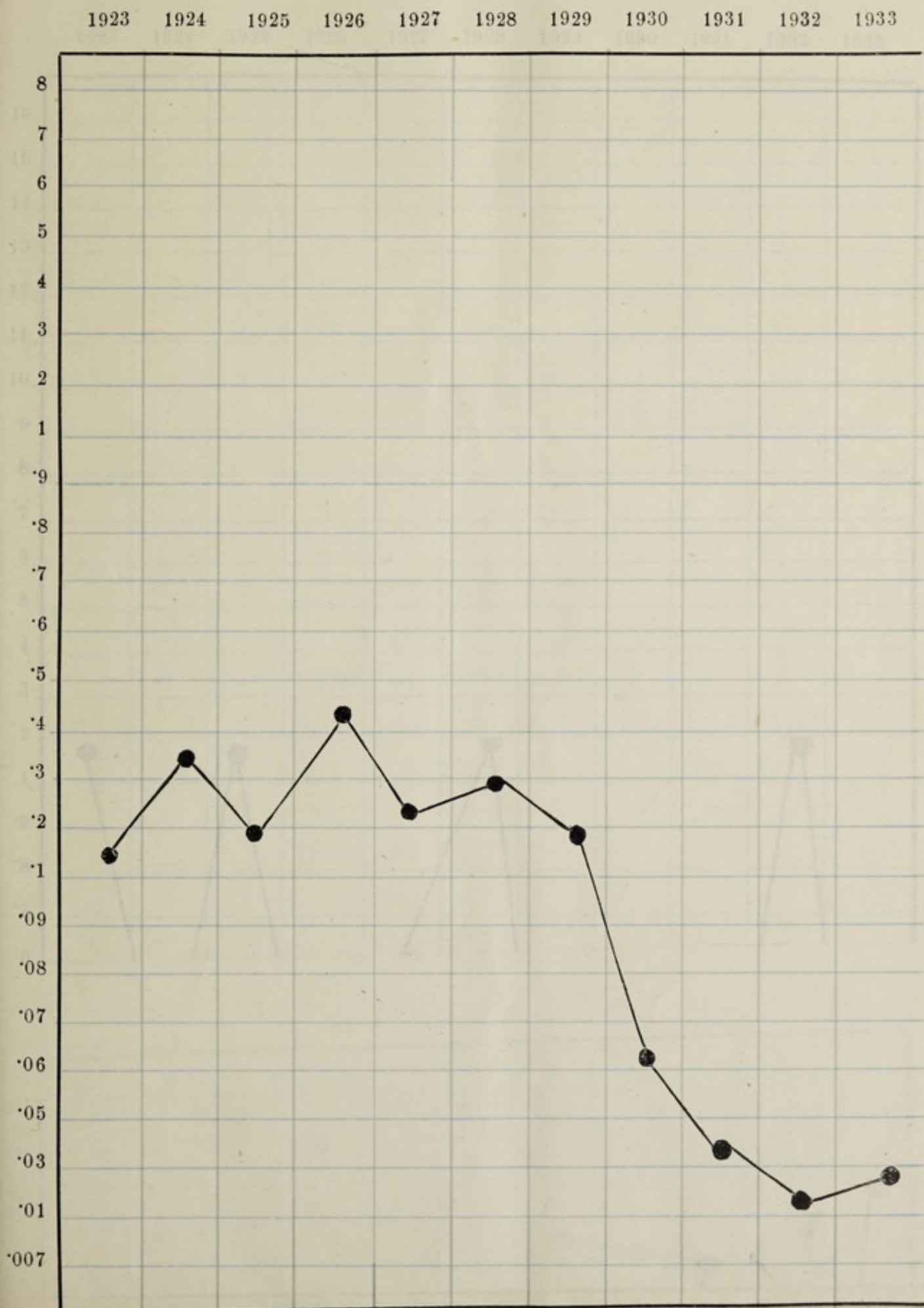
## ANNUAL DEATH RATES FROM PLAGUE FROM 1923 TO 1933.

1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933



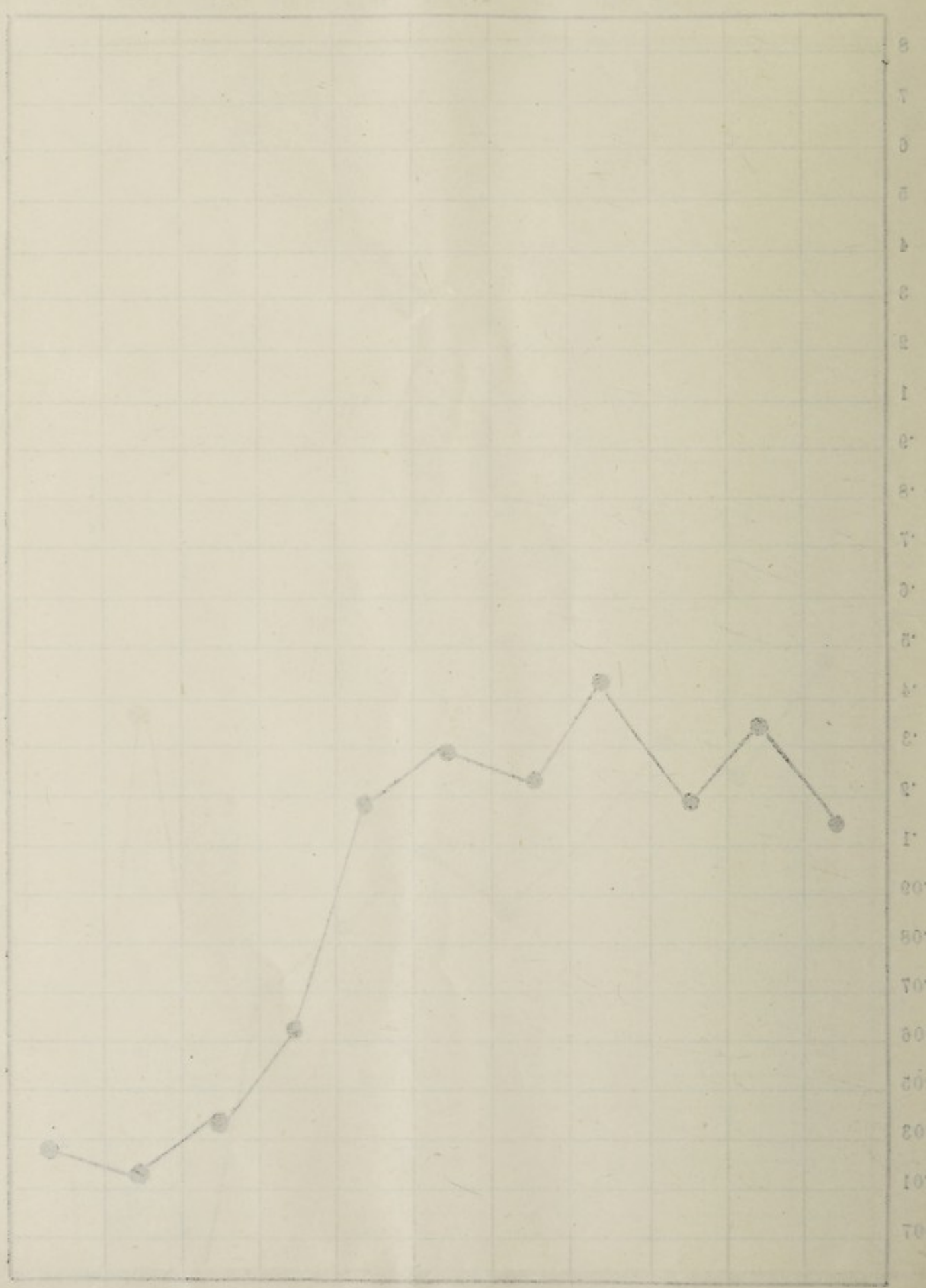


## ANNUAL DEATH RATES FROM CHOLERA FROM 1923 TO 1933.



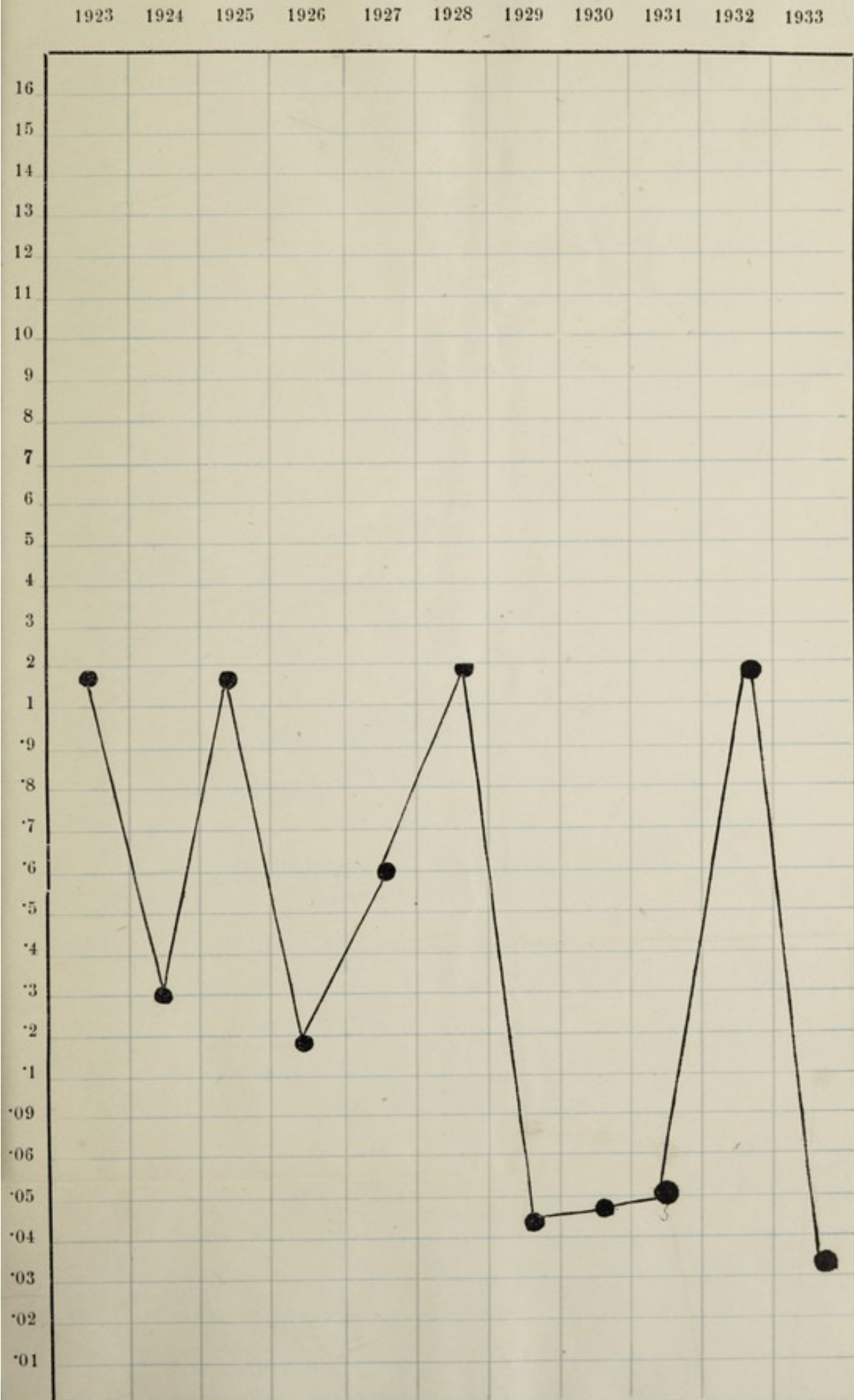
ANNUAL DEATH RATES FROM CHOLERA FROM 1923 TO 1933.

1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933



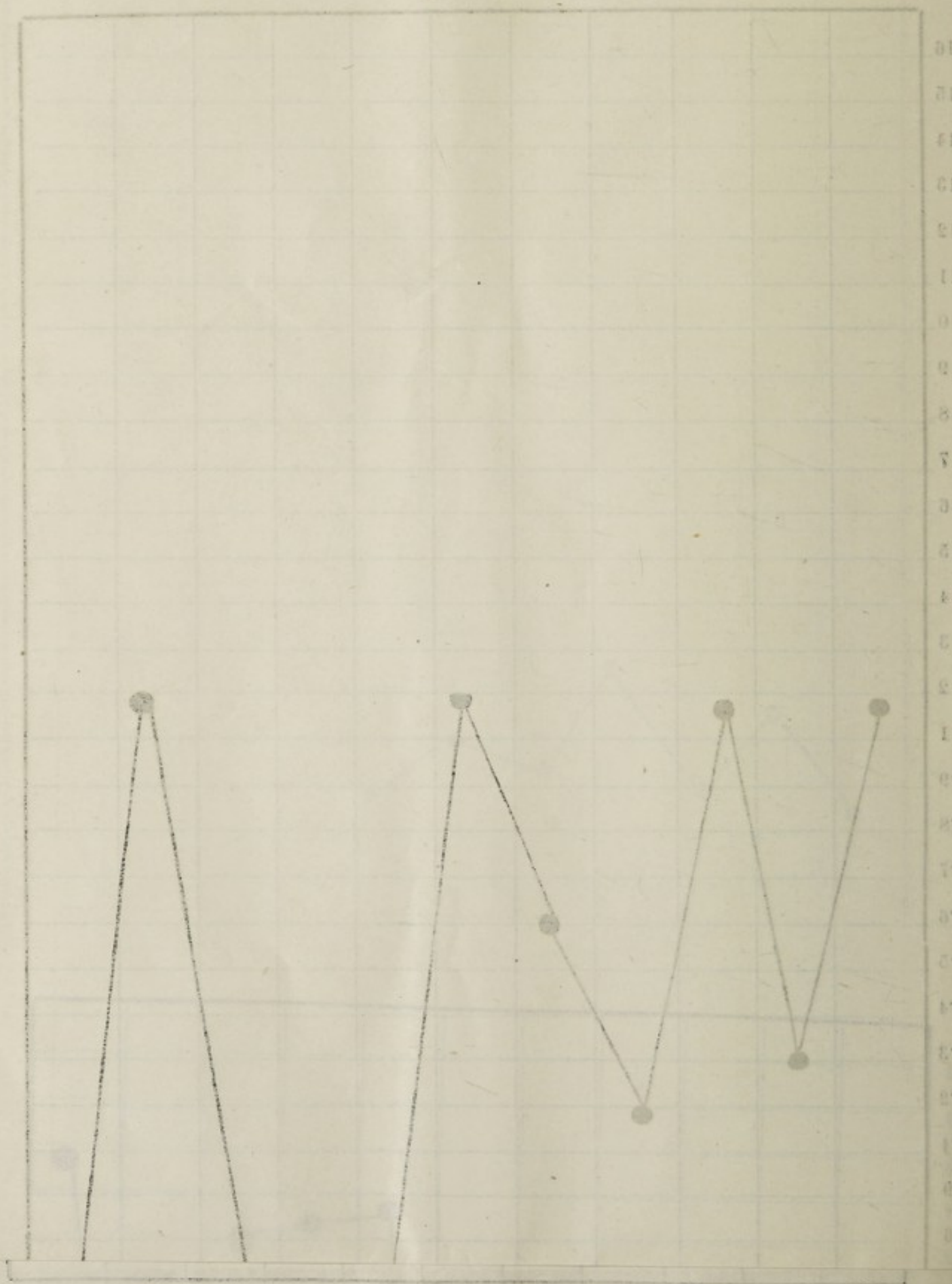


## ANNUAL DEATH RATES FROM SMALL-POX FROM 1923 TO 1933.



## ANNUAL DEATH RATES FROM SMALL-POX FROM 1923 TO 1933.

1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923





## VACCINATION.

TABLE No. 1.—Showing the total number of vaccinations performed during the year 1933-34 including those performed at the Port and the average cost per vaccination performed.

Years.	Primary vaccinations in town by Corporation Staff.	Re-vaccinations in town by Corporation Staff.	Vaccinations performed by Private Medical Practitioners.	Ship Vaccinations.	Total number of vaccinations.	Rate percentage of verified Primary successful cases in Town.	Average number vaccinated by each vaccinator.	Primary vaccination per 1,000 of population (by Corporation Staff).	Number of births registered per 1,000 of population.	Total expenditure less sale of lymph.	Average cost per vaccination head.
										Rs. A. P.	Rs. A. P.
1931-32	13,118	108,263	6,347	156,537	284,265	99.82	2,334	32.45	21.41	40,837	0 2 4
1932-33	9,310	48,214	692	158,215	216,431	98.88	1,692	23.25	23.32	44,913	0 3 4
1933-34	11,235	67,233	2,246	140,683	221,397	99.20	2,378	28.06	23.51	42,856	0 3 2

TABLE No. 1A.—Showing particulars of cost of Vaccinations performed at the Port Health Station.

Years.	Pay and House allowance for 4 temporary Vaccinators.	Cost of lymph supplied (approximately).	Total Cost.	Number of Vaccinations performed.	Average cost of each Vaccination.
	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.
1931-32	3,129 6 0	5,317 14 6	8,447 4 6	156,537	0 0 10
1932-33	3,321 3 0	5,457 12 6	8,778 15 6	158,215	0 0 11
1933-34	3,513 6 0	4,687 1 6	8,200 7 6	140,683	0 1 0



**Table No. 2.**—*Showing births registered during the year 1933-34, and vaccination of Infants under one year of age.*

Circles.	Total births excluding still births.	Still births.	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated.	Percentage of vaccination to births registered.
Kamayut ...	1,292	51	332	960	883	68·34
North Kemmendine ...						
South Kemmendine ...	1,032	42	174	858	834	80·34
Lanmadaw ...	892	24	224	668	1,004	112·60
Taroktan ...						
West Town ...	678	28	128	550	903	133·20
East Town ...	827	18	149	678	810	97·95
Botataung ...	1,192	53	273	919	945	79·27
Pazundaung ...						
Theinbyu East ...	1,411	45	405	1,006	930	65·92
Theinbyu West ...						
Tamwe ...	1,324	89	377	947	1,239	93·92
Kokine ...						
Dala ...	404	8	73	331	458	116·00
Kanaungto ...	366	18	83	283	509	139·10
Cantonment ...	9	...	4	5	58	644·40
Hospitals and other Public Institutions	...	317	235	...	...	...
Vaccinations performed by Private Medical Practitioners ...	...	...	...	...	132	...
Total ...	9,427	693	2,457	7,205	8,705	92·32





# SANITARY.

102

Table No. 1—Showing number of Blockages cleared during the year 1933.

Divisions.	Circles.	BLOCKAGES IN							CLEARED BY																				
									INSPECTORS.							OWNERS.							CORPORATION PLUMBER.						
		Water Closets.	SULLIAGE TRAYS.		Manhole.	Downtake Sul- lage and Rain- water Pipes.	Soil Pipes.	Other Blockages.	Water Closets.	SULLIAGE TRAYS.		Manhole.	Downtake Sul- lage and Rain- water Pipes.	Soil Pipes.	Other Blockages.	Water Closets.	SULLIAGE TRAYS.		Manhole.	Downtake Sul- lage and Rain- water Pipes.	Soil Pipes.	Other Blockages.							
			Deep.	Surface.						Deep.	Surface.						Deep.	Surface.					Deep.	Surface.					
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7		
East Town Division.	East Town (I)	17	86	2,156	19	25	...	...	...	2,156	...	...	...	...	17	86	...	19	25	...	...	...	...	...	...	...	...		
	East Town (II)	23	55	1,748	51	100	4	2	...	1,748	...	...	...	...	23	52	...	49	99	4	2	...	3	...	2	1	...	...	
	East Town (III)	9	336	1,246	18	4	...	...	...	1,246	...	...	...	...	9	336	...	18	3	...	...	...	...	...	...	1	...	...	
	Pazundaung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Botataung	19	92	2,711	17	14	...	...	...	2,711	...	...	...	...	19	92	...	16	14	...	...	...	...	...	1	...	...	...	
	Total	68	569	7,861	105	143	4	2	...	7,861	...	...	...	...	68	566	...	102	141	4	2	...	3	...	3	2	...	...	
East Suburban Division.	Theinbyu East	1	10	1,109	16	1	...	...	...	1,109	...	...	...	...	1	10	...	16	...	...	...	...	...	...	...	...	...	...	
	Theinbyu West	...	...	86	3	...	...	...	...	86	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...		
	Tamwe (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Tamwe (II)	1	1	437	6	...	...	...	...	437	...	...	...	...	1	1	...	6	...	...	...	...	...	...	...	...	...		
	Kokine (I)	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...		
	Total	2	11	1,632	28	1	...	...	...	1,632	...	...	...	...	2	11	...	28	1	...	...	...	...	...	...	...	...		
West Town Division.	West Town (I)	9	107	3,939	35	24	1	2	...	3,939	...	...	...	...	8	104	...	35	21	1	2	1	3	...	...	3	...	...	
	West Town (II)	5	62	3,877	9	17	...	...	...	3,877	...	...	...	...	5	60	...	9	17	...	...	2	...	...	...	...	...		
	Taroktan	20	220	3,725	46	17	2	2	...	3,725	2	...	...	...	19	203	...	42	17	2	2	1	11	...	2	...	...		
	Lanmadaw	25	125	2,080	66	4	3	...	...	2,044	...	...	...	...	22	104	35	51	4	3	...	3	21	1	15	...	...		
	Dalla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Total	59	514	13,621	156	62	6	4	...	13,585	2	...	...	...	54	471	35	137	59	6	4	5	37	1	17	3	...	...	
West Suburban Division.	Kamayut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	North Kemmendine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	South Kemmendine	7	75	732	11	2	...	...	...	732	...	...	...	...	7	75	...	11	2	...	...	...	...	...	...	...	...		
	Kokine (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Kanaungto	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Total	7	75	732	11	2	...	...	...	732	...	...	...	...	7	75	...	11	2	...	...	...	...	...	...	...	...		
	GRAND TOTAL	136	1,169	23,846	300	208	10	6	...	23,810	2	...	...	...	131	1,123	35	278	203	10	6	5	40	1	20	5	...	...	

Table No. 1—Showing number of Block

Inspector	Circles	BLOCKS IN												Inspector
		Municipal						Private						
		1	2	3	4	5	6	7	8	9	10	11	12	
East Division	East Town (I)	17	60	2,140	12	22	...	...	...	...	...	...	...	17
	East Town (II)	...	...	52	1,748	21	160	...	...	...	...	...	...	52
	East Town (III)	...	...	2	230	1,340	16	...	...	...	...	...	...	2
	Panabang	...	...	...	...	...	...	...	...	...	...	...	...	...
	Borabang	...	...	19	62	2,711	17	14	...	...	...	...	...	19
Central Division	Total	...	...	68	260	2,861	160	140	...	...	...	...	...	68
	Thibang East	...	...	1	10	1,100	10	...	...	...	...	...	...	1
	Thibang West	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tamw (I)	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tamw (II)	...	...	1	...	...	...	...	...	...	...	...	...	1
West Division	Kokine (I)	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	5	11	1,402	28	1	...	...	...	...	...	5
	West Town (I)	...	...	9	107	2,910	30	24	...	...	...	...	...	9
	West Town (II)	...	...	6	62	1,877	9	15	...	...	...	...	...	6
	Tatoban	...	...	20	230	2,712	40	17	...	...	...	...	...	20
South Division	Lanabang	...	...	25	122	2,080	16	11	...	...	...	...	...	25
	Dalla	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	30	214	2,702	156	41	...	...	...	...	...	30
	Kamrang	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Kamrang	...	...	...	...	...	...	...	...	...	...	...	...	...
North Division	South Kamrang	...	...	7	72	732	11	2	...	...	...	...	...	7
	Kokine (II)	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kamrang	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	7	72	732	11	2	...	...	...	...	...	7
	Grand Total	...	...	132	1,160	2,840	300	200	...	...	...	...	...	132



Table No. 2—Showing number of Notices issued and served under the different sections of the City of Rangoon Municipal Act, 1922, during the year 1933.

Divisions.	Circles.	NOTICES SERVED UNDER																														TOTAL.							
		Section.					Sch. II, Chap. I.				Sch. II, Ch. VII.		Sch. II, Ch. VIII.	Sch. II, Chap. VIII A.					Sch. II, Ch. IX A.		Sch. II, Ch. XII.				Sch. II, Ch. XIII.		Sch. II, Ch. XV.	Sch. II, Ch. XVII, Food bye-laws.	Milk bye-laws.	Ice and aerated water bye-laws.	Sherbet & Ice cream bye-laws.		Sch. VIII, Rule 1 (c).	Sec. 156 (c).	By-law framed under Sec. 142 (a) of B. M. Act of 1922.	Sec. 102.			
		123	124	156 (i)	156 (2)	156 (4)	182	Rule 1.	Rule 2.	Rule 25.	Rule 27 (a).	Rule 2 (a).	Rule 2 (b).	Rule 1.	Rule 2.	Rule 3.	Rule 4.	Rule 5.	Rules 7 & 8.	Rule 1.	Rule 7.	Rule 4.	Rule 6.	Rules 10, 11 & 12.	Rules 13 & 14.	Rule 1.	Rules 10 to 19.	Rules 20 & 21.	Sch. II, Ch. XV.	Sch. II, Ch. XVII, Food bye-laws.	Milk bye-laws.		Ice and aerated water bye-laws.	Sherbet & Ice cream bye-laws.	Sch. VIII, Rule 1 (c).	Sec. 156 (c).	By-law framed under Sec. 142 (a) of B. M. Act of 1922.	Sec. 102.	
EAST TOWN DIVISION.	East Town (I)	...	...	...	...	...	185	13	6	360	...	...	2	31	307	176	1	79	...	1	35	...	...	...	12	14	...	...	22	...	...	...	...	...	...	...	...	...	1,244
	East Town (II)	1	...	...	...	...	184	20	4	319	...	...	...	31	358	170	...	69	...	...	25	...	...	...	1	...	...	2	49	...	...	2	...	...	...	...	...	1,235	
	East Town (III)	...	...	...	...	...	134	13	8	426	...	...	5	52	312	185	1	80	5	...	1	52	...	...	31	12	...	3	75	...	...	...	...	...	...	...	...	1,395	
	Pazundaung	1	4	...	...	...	216	8	29	161	...	...	6	115	127	117	6	6	3	...	27	80	...	...	9	...	...	61	47	...	...	...	...	5	2	...	...	1,030	
	Botataung	...	16	18	...	...	212	11	4	315	...	...	2	19	222	159	...	40	...	6	52	...	...	1	1	8	...	7	69	...	...	...	...	...	1	...	1,163		
	R.B. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55		
	R.B. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	75		
	F.I. (I)	}	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	255	20	6	5	...	...	...	...	286		
	F.I. (II)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Total	2	20	18	...	...	931	65	51	1,581	...	...	15	248	1,326	807	8	274	8	...	35	244	...	62	68	1	53	35	...	71	2	517	20	6	7	5	2	1	6,483	
EAST SUBURBAN DIVISION.	Theinbyu East	1	...	...	...	...	89	6	4	193	...	...	...	331	371	107	1	1	...	...	15	...	...	...	3	1	...	33	45	...	...	2	...	...	...	...	...	1,203	
	Theinbyu West	2	...	9	...	...	132	11	4	85	...	...	1	327	...	143	...	4	...	...	101	...	...	...	1	2	22	...	81	...	...	...	...	...	...	...	925		
	Tamwe (I)	...	1	...	...	...	107	6	...	73	...	...	...	382	4	63	...	8	...	3	80	1	...	...	...	8	...	49	55	...	2	...	...	...	...	...	842		
	Tamwe (II)	...	1	...	...	...	13	4	2	36	...	...	1	482	16	50	...	3	...	1	35	...	...	47	2	...	12	...	41	...	1	...	...	...	...	3	750		
	Kokine (I)	...	...	...	...	...	101	...	...	70	...	...	...	149	...	1	7	...	...	5	...	...	...	...	...	...	1	...	31	...	...	...	...	...	...	365			
	R.B.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18	67	3	...	...	...	...	...	...	...	...	...	...	...	...	...	88		
	F.I. (I)	}	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	139	
	F.I. (II)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	127	2	...	10	...	...	...	...			
	Total	3	2	9	...	...	442	27	10	457	...	...	2	1,671	391	364	1	23	...	4	2-6	1	18	67	50	5	10	2	117	...	380	2	...	15	...	...	3	4,312	
WEST TOWN DIVISION.	West Town (I)	1	...	...	...	...	226	53	11	528	...	...	4	31	401	251	2	151	...	...	32	3	...	...	7	1	...	2	82	3	...	...	...	...	...	...	1	1,790	
	West Town (II)	...	...	...	...	...	98	36	1	241	...	...	9	9	283	315	...	93	...	...	71	...	...	1	...	4	...	1	100	3	1	1	...	...	...	...	1,267		
	Taroktan	3	...	...	...	...	382	149	...	245	...	...	11	35	453	227	1	69	...	...	1	95	...	...	1	3	2	...	99	1	1	2	...	...	...	...	1,780		
	Lanmadaw	...	...	...	...	...	348	97	...	230	...	...	10	34	312	269	2	73	...	...	21	43	...	1	...	15	21	...	122	...	...	2	...	...	...	...	1,600		
	Dalla	...	...	...	...	...	...	...	...	80	...	...	...	30	...	16	...	...	...	...	27	...	4	2	15	3	...	24	128	...	1	...	...	...	...	2	332		
	R.B. (I)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	63		
	R.B. (II)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27		
	F.I. (I)	}	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	125	11	10	1	...	...	...	...	147		
	F.I. (II)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Total	4	...	...	...	...	1,054	335	12	1,324	...	...	34	139	1,449	1,078	5	386	4	...	22	268	3	56	36	3	44	27	...	656	18	12	7	...	...	...	3	7,006		
WEST SUBURBAN DIVISION.	Kamayut	...	...	...	...	...	45	15	1	172	...	...	...	207	7	97	...	11	...	4	22	...	...	12	...	2	11	58	16	44	...	...	...	...	...	...	...	724	
	North Kimmendine	...	...	...	...	...	27	11	9	172	1	1	227	...	79	...	27	...	30	115	2	1	5	5	1	7	...	61	...	69	...	...	5	3	...	...	860		
	South Kimmendine	1	...	...	...	...	86	27	29	415	...	...	1	419	125	243	1	36	1	...	37	81	...	...	6	1	...	51	47	2	...	3	1	...	...	...	1,613		
	Kokine (2)	...	...	...	...	...	50	...	4	77	...	...	...	112	15	72	...	11	...	8	3	4	...	...	...	1	...	61	31	...	...	...	...	...	...	449			
	Kanaungto	...	...	...	...	...	...	...	...	1	...	...	13	1	21	...	...	...	...	21	...	1	...	1	34	11	...	91	...	2	...	...	...	...	...	...	197		
	R. B.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	46	48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	94		
	F.I. (I)	}	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	F.I. (II)		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	64	...	2	5	...	...	...	71		
	Total	1	...	...	...	...	208	53	43	837	1	1	978	148	512	1	85	1	...	79	242	6	48	65	6	41	22	11	231	16	346	2	2	15	4	...	...	4,008	
GRAND TOTAL	10	...	22	27	...	2,635	480	116	4,199	1	1	54	3,314	2,761	15	768	13	...	140	990	10	184	236	60	143	94	13	446	18	1,899	42	20	44	9	2	1	6	21,899	





**Table No. 3—Showing number of cases prosecuted and amount of Fines imposed under the Ghee Act and the Different Sections of the City of Rangoon Municipal Act, 1922, during the year 1933.**





**Table No. 4.—Showing Inspections made by the Sanitary Inspectors and Sanitary Works completed during the year 1933.**

No. of Inspections,  
etc., by S.Is.

**A.—Nature of Inspection or Premises visited : —**

1. Dwelling houses excluding R.B. houses	...	...	38,378
2. Milch cattle stables	...	...	1,212
3. Other Stables	...	...	999
4. Milk, Ice-cream and Sherbet shops	...	...	918
5. Public Eating houses and Tea-shops, etc.	...	...	9,678
6. R.B. houses { (1) Day	...	...	15,271
(2) Night	...	...	6,573
7. Markets, Cinemas and Schools—No. of visits	...	...	3,257
8. Aerated Water Works	...	...	191
9. Other Workshops and Factories	...	...	946
10. Building works	...	...	1,517
11. Drains and fittings	...	...	5,041
12. Inspection of places where dangerous and offensive articles are stored	...	...	3,128
13. Houses where epidemic diseases occurred	...	...	321
14. Other Inspections and Inquiries	...	...	2,942
Total No. of Inspections			90,372

**B.—Works, etc., completed : —**

1. Dwellings—			
(a) Limewashed	...	...	2,384
(b) Kitchen floors repaired	...	...	1,018
(c) W. Cs. repaired	...	...	605
(d) New W. Cs. provided	...	...	155
(e) Water storage tanks cleaned	...	...	21,016
2. Stables—			
(a) Paved and drained	...	...	113
(b) Cleaned and refuse removed	...	...	371
3. Markets, Theatres and Schools—			
Sanitary requirements carried out	...	...	94
4. Dangerous and Offensive Trades—			
(a) Licenses issued	...	...	979
(b) Licenses cancelled	...	...	...

**B.—Works, etc., completed—concl'd.**

5. Milk, Ice and Aerated Water, Sherbet and Ice-cream shops—			
(a) Licenses issued	...	...	123
(b) Licenses cancelled	...	...	...
6. Public Eating houses and Tea-shops, etc.—			
(a) Licenses issued	...	...	1,454
(b) Licenses cancelled	...	...	...
7. Factories and Workshops—			
Limewashing, etc., carried out	...	...	63
8. Repairs, etc., done through Corporation Plumbers	...	...	332
9. No. of cases of accumulation of refuse, rank vegetation, etc., removed	...	...	3,736
10. Latrine tubs provided	...	...	847
11. Blockages removed	...	...	25,675
12. Other works completed	...	...	501
Total Sanitary works completed			59,466

**B.—Works, etc., completed:**

21,010	...	(a) Water storage tanks cleaned
155	...	(b) New W. C.s provided
605	...	(c) W. C.s repaired
1,012	...	(d) Kitchen floors repaired
2,384	...	(e) Limewashed

172	...	(b) Cleaned and refuse removed
112	...	(a) Paved and drained

94	...	Sanitary requirements carried out
----	-----	-----------------------------------

975	...	(a) Licenses issued
...	...	(b) Licenses cancelled



**TABLE No. 5 :—**Showing articles of unwholesome food and drink seized and destroyed during the year 1933 as compared with that of the previous year.

	1933.	1932.
Milk	339½ viss.	399½ viss
Cheese	38 lbs.	5 lbs.
Curd	...	10 lbs.
Aerated Water	563 bottles.	464 bottles.
Fish (fresh)	427½ viss.	710½ viss
Fish (dry)	12 viss.	5 viss and 23 cases Haddocks.
Fish (tinned)	68 tins.	126 tins.
Meat (fresh)	95½ viss.	93½ viss and 6 ducks.
Meat (dry)	...	½ viss.
Corned Beef	...	9 tins.
Eggs	803 in No.	726 in No.
Potatoes	727½ viss.	280 viss.
Onions	425½ viss.	570 viss.
Garlic	10½ viss.	9 viss.
Grain	½ viss.	25 viss.
Vegetables	579½ viss.	831½ viss and 3 baskets.
Fruits (fresh)	21,609 in No. and 2 baskets full of Tomatoes.	22,703 in No. and 3 baskets full of Tomatoes.
Fruits (dry)	65 in No.	4 in No.
Preserved fruits	25 tins.	1 tin.
Condensed Milk	152 tins.	2 tins.
Cocoanuts	...	6 in No.
Biscuits	22 lbs.	68½ lbs.
Bread	32 lbs.	72 lbs.
Patent Food	3 tins.	...
Indian Sweetmeat	26½ viss.	17½ viss.
Cakes	...	½ lb.
Ginger	...	10 viss.

On request from various Firms:—

Tinned Milk	...	17,844 tins.
Patent Food	...	1,003 tins 13 bottles
Chocolates	...	452½ boxes.
"	...	494 tins.
"	...	103 slabs.
"	...	163 pieces.
"	...	19 biscuits
"	...	137 sticks.
"	...	139 Naps.
"	...	245 bars.
"	...	41 blakes.
"	...	69 tablets.
"	...	9 rolls.
"	...	62 packets.
"	...	65 carbonettes.
"	...	12½ lbs.
"	...	7 carbons.
Walnut Pickles	...	3 bottles.
Pickles	...	20 "
Pears	...	4 cases.
"	...	11 tins.
Lethem's Bacon	...	2 cases.
"	...	8 tins.
Bacon	...	26½ lbs.
"	...	2 pieces.
"	...	1 tin.
Breakfast Bacon	...	9 pieces.
Redgate Buck Bacon	...	6 "
Hunters' Breakfast Bacon	...	11 "
Fruits in Syrup	...	106 tins.
Fruits and vegetables	...	12 cases.
Jam	...	53 tins.
"	...	3 jars.
"	...	13 bottles.
Butter	...	19 tins.

On request from various Firms:—contd.

Cheese	...	395	tins.
"	...	6	jars.
"	...	134	cakes.
Gouda Cheese	...	31	lbs.
"	...	4	cases.
Edam Cheese	...	8	tins.
Fruits	...	59	tins.
"	...	15	bottles.
Cocoa	...	25	tins.
Cadbury's Cocoa	...	10	tins.
Sausages	...	237	tins.
"	...	6	boxes.
"	...	185	lbs.
Wincarnis Jellies	...	17	packets
Jelly	...	49	tins.
"	...	1	bottle
Cooked Ham	...	14	tins.
Hafina	...	5	tins.
Smoked "	...	1	case.
Ham	...	60	tins.
"	...	2	legs.
"	...	2	pieces.
Redgate Ham	...	17	tins.
"	...	3	legs.
"	...	124	lbs.
Sliced Hany Ham	...	28	tins.
Hunter's Quaker Ham	...	2	tins.
Boiled Ham	...	1	leg.
Hunter's Ham	...	3	legs.
Redgate Cumberland Ham	...	1	leg.
" 1/2 Ham	...	5	legs.
Ham Delight	...	40	lbs.
Smoked Shoulders	...	1	case.
Soup	...	69	tins.
Chef Soup	...	40	tins.
Salad Cream	...	2	bottles.
"	...	1	case.
Cream	...	7	jars.
"	...	3	tins.
Lemon Cup	...	8	bottles.
"	...	3	cases.
Lemon Squash	...	8	bottles.
Orange Cup	...	2	"
Hot Pot	...	190	tins.
Strawberries	...	19	"
Syrup	...	502	"
"	...	15	bottles.
Anchovy in Oil	...	140	"
Lunch Tongue	...	48	tins.
Ox Tongue	...	1	large jar.
Pork Brown	...	48	tins.
Royal Pork	...	1	tin.
Biscuits	...	80	tins.
"	...	1	packet.
Plums	...	32	tins.
"	...	25	bottles.
Whitebait	...	1	case.
Pudding	...	2	boxes.
Damson	...	95	tins.
Onions	...	59	bottles.
Meat paste	...	18	jars.
Meat	...	2	cases.
Potted Meat	...	4	jars.
Gooseberries	...	32	bottles.
C. M. D. Gooseberries	...	16	"
Dates	...	1	tin.
Olives	...	34	bottles.
"	...	1	tin.
Cherries	...	41	tins.
Red Cherries S. & W.	...	3	"
Sauce	...	12	bottles.

A. H.



*On request from various Firms :—concl'd.*

Instant Postum	...	2	tins.
Macaroni	...	7	packets.
Beef Dripping	...	1	tin.
Force	...	5	packets.
Peas	...	6	tins.
Partridge	...	8	"
Oats	...	1	tin.
Patum Peperium	...	1	jar.
Apricots	...	59	tins.
Raisins	...	16	"
Chili Concarne	...	11	"
Salmon	...	4	"
Coffee	...	1	tin.
Essence of Coffee	...	2	bottles.
Lux flakes	...	1	packet.
Corn flakes	...	18	packets.
Crises	...	3	tins.
Lobster	...	7	"
Elephant Margerine	...	1	tins
Shrimps	...	3	tin.
"	...	1	box.
Peeled Shrimp	...	1	tin.
Prunes	...	1	jar.
Tomato	...	2	tins.
Peeled tomato	...	1	tin.
Tomato Catsup	...	4	bottles.
" Ketchup	...	1,322	"
Sapolin	...	1	tin.
Treacle	...	1	"
Lime Juice	...	1	bottle.
Sardines	...	361	tins.
"	...	30	cases.
Cerebos Salt	...	1	tin.
Idris-Grape-fruit Squash	...	11	bottles
Irish Stew	...	26	dozen tins.
Boiled Beef and carrots	...	19	tins
Mustard	...	1,068	"
Fish	...	1	case.
Rhubarb	...	11	bottles.
Pate de fois Gras Truffee	...	29	tins.
Fruit Salad	...	75	"
Fresh Herring	...	1	tin.
Herring	...	1	barrel.
Mayonnaise	...	2	bottles.
Essence of Rennet	...	5	"
Honey	...	1	"
Oatmeal	...	1	tin.
Pine Apple	...	10	tins.
Vermicelli	...	8	packets.
Cocoanuts	...	3	tins.
Apples	...	28	"
Bread	...	68	"
Oatcakes	...	1	tin.
Shredded Wheat	...	1	packet.
Mackintosh Toffee	...	2	tins.
Libby's Milk	...	1,605	"
Melon and Lemon	...	2	"
Marmalade	...	1	tin.
Haddocks	...	10	tins.
Beans	...	5	"
Apple Sauce	...	6	"
S. & W. Sauce Krant	...	2	"
Confectionery	...	2	cases.
Talismalt	...	2	tins.
Geo. Delidet Hors D'oeuvre	...	1	jar.
Peaches	...	4	tins.
Cream of Wheat	...	2	tins.
All Bran	...	1	packet.
H.O. Force	...	7	packets.
H.O. $\frac{1}{4}$ Oat	...	1	packet.





