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Reports - Sanitary No. 191.c.



Nairobi Municipality Kenya.

EIGHTH ANNUAL REPORT

OF THE

Medical Officer of Health.

1936



MUNICIPALITY OF NAIROBI Kenya Colony.

With the Compliments

of

The Medical Officer of Health.

Public Health Department,
Town Hall,
Nairobi,
Kenya.



Nairobi Municipality Kenya.

EIGHTH ANNUAL REPORT

OF THE

Medical Officer of Health.

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Town Hall, Nairobi, February 27th, 1937.

His Worship the Mayor and Councillors of the Municipal Council of Nairobi.

Gentlemen,

I have the honour to present to you herewith my annual report on the sanitary circumstances, sanitary administration, vital statistics, and other matters of a health nature, of the Municipality of Nairobi for the year 1936, as required by "The Local Government (Municipalities) Ordinance, 1928," The Medical Officers of Health Rules, 1929," Sec. 2 (12)d.

I am, Gentlemen,

Your obedient servant,

H. W. TILLING,

M.R.C.S., L.R.C.P., D.P.H., Medical Officer of Health.

1. CENERAL.

The Local Government (Municipalities) Ordinance came into force as from 1929, thus this is the eighth year that the Municipal Council of Nairobi has been the public health authority for the Municipality of Nairobi.

The office of the public health department is now situated in the Town

Hall recently built in the City Square.

No new legislation of a health nature has been passed during the year. The only alteration made in the number of personnel of the public health department has been the temporary appointment of a Health Visitor in consequence of the opening of the Indian Child Welfare Clinic. One new appointment of Sanitary Inspector was made to fill a vacancy due to resignation.

The annual expenditure of the department for 1936 showed an increase of £1,989 compared with that for 1935. This is accounted for by the expenditure in connection with the Clinics which were taken over in the last

quarter of 1935.

The total amount expended during the year was £9,219 of which the Government by grants made on account of public health contributed £4,511, leaving £4,708 to be borne by the Council.

In addition the Indian Clinic was built and equipped involving a capital

expenditure of £359 of which the Government contributed one half.

The rainfall for the year was again disappointing, 1936 being the fourth consecutive year with rainfall below the average. The deficiency for the year amounted to 13.6% whilst the deficiencies for the three preceding years

were 12.6%, 35.3%, and 36.6% respectively.

Only three months, namely, January, February, and June, recorded rainfalls over the average. One feature of the rainfall was the absence of long spells of dry weather. Although the rainfall was below the average the number of days of rain was above the average and they were so distributed that the longest spell without rain was 25 days occurring in July, the next longest being 14 days during January-February. The longest period in 1935 without rain was 46 days.

The estimated population of the Municipality for 1936 shows a slight decrease of 430 compared with 1935, the decrease concerning the Asiatic population only. The estimated figure for Natives remained stationary,

whilst that for Europeans increased to the extent of 70. In the absence of

another census these figures must be regarded as approximate only.

There was an increase in the number of births among residents notified during the year. The birth rate, although low, shows some improvement compared with 1935.

The percentage of stillbirths to total births during 1936 was decreased from 9.4% to 6.4% in the case of residents, whilst the rate for non-residents

was increased from 6.1% to 11.9%.

The natural increase, that is to say, the excess of births over deaths, in the case of Europeans reached a rate of 5.0 per thousand persons, for Asiatics o.8 per thousand persons, whilst for Natives there was an adverse rate of 5.7 per thousand persons, the excess of deaths over births being 156.

The year under review was not a healthy one as far as Nairobi was concerned, the crude death rate increased from 19.7 to 23.2 per thousand persons,

whilst the recorded death rate increased from 13.9 to 15.9.

The death rate for Europeans amounted to 8.9 per thousand persons compared with 6.1 for 1935 whilst the rate for Asiatics and Natives was 16.1 and 17.3 respectively per thousand persons compared with 12.2 and 16.4 for the previous year.

The infant mortality rate among Europeans may be regarded as satisfactory with 51 deaths per 1,000 births when compared with 57 for England and Wales although the small numbers involved make comparison somewhat

unreliable.

The infant mortality rate among Asiatics reached the high figure of 518 deaths per 1,000 births, that is over one half of the children born alive died within the first year. The rate for British India is 187.

The rate for Natives, although not so high as for Asiatics, is very much

greater than in other places in Africa from which records are available.

The following table comparing vital statistics of various countries and towns is of interest.

It will be noted that in comparison the birth rates of both Europeans and non-Europeans for Nairobi is low, the former the lowest and the latter the lowest but one of the figures quoted.

The death rates for Nairobi take about a middle position in the list.

The infant mortality rate for Europeans in Nairobi also takes a median position of those quoted but the non-European infant mortality rate is the highest of the list and is somewhat startling in its proportions.

COMPARISON OF VITAL STATISTICS.

		Year.			rates per opulation Non- Europ.	Death rate 1,000 por Europ.		1,000	ortality s per births. Non- Europ.
England & Wales		1935		14.7		 11.7		 57	-
British India		1934			34	 -	25	 -	187
Lagos		1935		_	26.3	 -	13.9	 	129
Penang		1935		49.1	36.5	 -	19.7	 31	148
Pretoria		1935-6	***	22.9	12.4	 9.8	14.9	 77	374
Pietermaritzburg		1935-6		17.2	21.1	 8.2	14.8	 22	-
Bloemfontein		1935-6		18.2	25.4	 7.8	27.6	 64	390
Cape Town		1935-6		18.0	45.7		22.6	 45	145
Port Elizabeth		1935-6		28.3	53.5	 10.8	37.6	 61	-
Kimberley	***	1935-6		19.7	28.8		-	 91	-
Durban		1935-6		16.5	-	 8.8	-	 40	-
NAIROBI		1936		13.9	13.7	 8.9	16.9	 51	479

Excluding malaria, the number of infectious diseases notified totalled 176 compared with 149 for last year, the increase being mainly concerned with tuberculosis, cerebrospinal meningitis, tropical typhus, and plague.

Municipal patient days in hospital increased from 1,989 to 4,046 for tuberculosis, from 627 to 1,478 for measles, and from 192 to 513 for whooping cough, whilst the number of patient days decreased for leprosy, chickenpox, typhoid fever, and cerebrospinal meningitis. The total number of patient days amounted to 9,765 compared with 7,882 for 1935.

Malaria was notified in 1,000 instances during the year. Of these 902 were resident and 98 non-resident, compared with 3,500 resident and 449 non-resident notifications during last year.

The epidemic of 1935 was not continued into this year. During 1936, there was a peak of incidence in June with a recession in April and from the peak the incidence dropped rapidly to July, then declined less rapidly to November, thus following the rainfall by a period of about two months.

Anti-malaria work was carried out throughout the year consisting of straightening and clearing the many streams within the Municipality, attention to the concrete canals and oiling of breeding places, 9,320 gallons of oil mixture being used for this purpose. In addition 400 gallons of pyrethrum fluid for spraying was issued in order to deal with adult mosquitoes in houses.

More especially during the middle of the year, a plague of field rats was experienced through the Municipality necessitating special precautions being taken regarding the clearing of land and the reduction of harbouring places.

A record number of 32,859 rats were trapped in the commercial area, the greatest number being caught in the months of October and July when 3,343

and 3,298 were killed respectively.

Towards the latter half of the year there was a marked diminution in the yield of the springs in connection with the town's water supply resulting in a shortage of water which became somewhat acute in the last months of the year.

Work is proceding with the new water supply and there is every reason to believe that this new supply will be available during the coming year.

Work in connection with the inspection of meat at the abattoir is still progressively increasing, a total of 54,984 animals being slaughtered during the year, an increase of 8.5% over the number for the previous year. The increase was largely accounted for by the greater number of sheep and goats dealt with.

It is gratifying to note the decrease in the percentage of grade oxen condemned for measles. The highest percentage was in 1934 when 13.2% were condemned for this cause. In 1935 the figure decreased to 10.2%, whilst during 1936 there was a further decrease to 9.4%. The condemnation of native oxen for measles increased to 22.5%, the highest figure yet recorded.

The estimated weight of meat condemned during the year totalled

1,294,962 lb. being an excess of the figure for the previous year.

The question of the submission to a central depot of milk entering the Municipality from unregistered sources not being consigned to registered premises, has been considered and, provided the necessary by-laws are approved, the scheme will probably be put into operation during the coming year.

The report on Child Welfare, Ante-natal and Venereal Clinics, Dispensaries and Home Visits by Dr. E. F. Hartley, the Medical Officer in charge,

is appended.

In connection with this report it should be noted that the Government Medical Department hold a weekly male venereal clinic at Pumwani. At this clinic 1,186 new cases were dealt with during the year, the total attend-

ances numbering 3,879.

On June 1st, the Indian Child Welfare Clinic was commenced in a building erected by the Council in the grounds of the Lady Grigg Indian Maternity Hospital. During the six months since inauguration, this Clinic has progressed very well having registered 2,719 attendances at Child Welfare clinics, 786 attendances at Ante-natal clinics and 2,580 attendances at the Dispensary, whilst the staff paid 853 Home visits.

2. STAFF.

The establishment of the public health department includes the following staff:-

1 Medical Officer of Health.

1 Lady Medical Officer.

1 Chief Sanitary Inspector.

4 District Inspectors.

1 Meat and Food Inspector.

4 Health Visitors.

i Sanitary Overseer.

I Clerk.

Native Staff.

The details of the personnel of the staff employed during the year are as under:-

MEDICAL OFFICER OF HEALTH,

Dr. H. W. Tilling continued to carry out the duties throughout the year.

LADY MEDICAL OFFICER.

Dr. E. F. Hartley carried out the duties of Medical Officer in charge of Child Welfare work throughout the year.

CHIEF SANITARY INSPECTOR.

This post has been vacant since 1931, the duties having been carried

out by Mr. R. C. Forster.

As pointed out previously the filling of this post would facilitate the efficient working of the department considerably, as the work must be carried out to the detriment of the District when undertaken by a District Inspector.

Sanitary Inspectors.

Mr. R. C. Forster and Mr. S. W. White carried out their duties throughout the year.

Mr. D. Mackintosh was away for seven months on overseas leave.

Mr. P. Cairns was appointed to the position from the first of the year, taking the place of Mr. F. G. Ward, who resigned in March, 1935.

MEAT AND FOOD INSPECTOR.

Mr. A. A. Watts carried out the duties throughout the year.

HEALTH VISITORS.

Mrs. E. T. Dugmore was posted to Pumwani Clinic, Miss B. B. Pearson to the Railway Landies, and Miss J. Smith to the Municipal Housing Clinic; they carried out the duties throughout the year.

Mrs. A. G. Gibb was posted to the Indian Clinic in June and carried

out the duties during the remainder of the year,

SANITARY OVERSEER.

Mr. T. Bagnall was employed throughout the year mainly on antimalarial work.

CLERK.

Whole-time duties were performed by Miss W. W. Harris throughout the year.

NATIVE STAFF.

The number of boys employed on the office staff comprise one headboy, who is notice server, and two messengers.

The native staff of the clinics is composed of one male and four

female dressers.

One Goanese female dresser is employed at the Indian Clinic.

The number of boys employed on outside work comprise one motor driver, six rat boys, four oiling boys, and one boy to assist in food inspection.

Twenty boys are employed on anti-malarial work; this gang is on

the payroll of the engineering department.

Personnel of Health Department During 1936.

Appointed.	From	To
MEDICAL OFFICER OF HEALTH.		
5/ 5/30 Dr. H. W. Tilling	1/1/36	31/12/36
LADY MEDICAL OFFICER.		
23/ 5/35 Dr. E. F. Hartley	1/1/36	31/12/36
CHIEF SANITARY INSPECTOR.		
Vacancy,		
Sanitary Inspectors.		
6/ 8/29 Mr. R. C. Forster	1/1/36	31/12/36
15/ 9/31 Mr. D. Mackintosh	1/1/36	31/12/36
26/ 8/33 Mr. S. W. White	1/1/36	31/12/36
1/ 1/36 Mr. P. Cairns	1/1/36	31/12/36
Inspector of Meat and Food.		
1/ 1/29 Mr. A. A. Watts	1/1/36	31/12/36
HEALTH VISITORS.		
1/10/35 Mrs. E. T. Dugmore	1/1/36	31/12/36
1/ 1/36 Miss B. B. Pearson	1/1/36	31/12/36
1/ 1/36 Miss J. Smith	1/1/36	31/12/36
4/ 6/36 Mrs. A. G. Gibb	4/ 6/36	31/12/36
Sanitary Overseer.		
1/6/29 Mr. T. Bagnall	1/1/36	31/12/36
CLERK.	, , ,	
1/ 7/35 Miss W. W. Harris	1/1/36	31/12/36
	, , , ,	
NATIVE STAFF.	6	
Dressers	I	
Head boy	2	
M · D ·	I	
Rat boys	6	
Oiling boys	4	
Food inspection	I	
Anti-malarial gang	20	
8 8		

3. EXPENDITURE.

The expenditure of the public health department for the year 1936 amounted to £9,219 of which the Government by grants made on account of public health, contributed £4,511, leaving £4,708 to be borne by the Council.

In addition there was capital expenditure in connection with the building and equipment of the new Indian Clinic, to the extent of £359 of which the Government contibuted one half.

Details of the expenditure by the public health department during the year are given under:-

	EXPE	ENDI	TURE.				
Administration.						£	£
Salaries : M.O.H. and	Sanitar	y Inst	pectors			3,936	
Clerk						190	
Boys' wages	s, etc.					74	
Travelling allowances						145	
Passages						106	
Provident Fund	***5				•••	421	
Rent and telephone						338	
Printing and stationer	y			****		75	
Sundry expenses						21	6
							5,306
Infectious Diseases Pre	VENTION.						
Notification fees						111	
Hospital fees						497	
Overseer's salary						350	
Boys' wages, etc.		,				233	
Oil and stores						364	
Upkeep of lorry						83	
			*				1,641
FOOD INSPECTION.							
Samples, boys' wages	s, etc.						15
AUXILIARY HEALTH SERVICE	ES.						
Salaries : Lady Medica	al Officer		,			602	
Health Visi	tors					1,077	
Dressers						153	
Infant food	٠					73	
Medical stores						266	
Printing, stationery, t						25	
Maintenance of clinic						61	
						-	2,257
Total							9,210
Less Govern							4,51
203 50101	8.						
Cost to Cou	ıncil						4,708

Comparison of the expenditure with previous years is made in the table following:-

Year.	Expenditure.		Paid by Government.		Paid by Council.
	£		£		£
1929	 7,948		6,955		993
1930	 6,993		6,118		875
1931	 5,978		3,736	***	2,242
1932	 5,967		2,983		2,984
1933	 6,144	***	3,072		3,072
1934	 6,547		3,273		3,274
1935	 7,230		3,703		3,527
1936	 9,219		4,511		4,708

It is noted that the expenditure for the year was £1,989 greater than in 1935. This is accounted for by the amount expended in connection with the Clinics, of which only three months' working was shown for 1935; in addition the Provident Fund has been shown in this year's figures.

There being no expenditure under the heading of emergency work during the year, the total expenditure for infectious diseases prevention was less

than during 1935.

4. CEOCRAPHICAL.

Nairobi, the capital of Kenya, is situated in the highlands about 250 miles from the coast and is 330 miles by rail from the port of Mombasa and 257 miles by rail from Kisumu on Lake Victoria.

The geographical position is :-

Latitude: 1° 16′ 43″ South. Longitude: 36° 50′ East.

Height above sea level: From 5,452 feet to 5,700 feet. Area of Municipality: 20,712 acres or 32.4 square miles.

5. RAINFALL.

The following rainfall records are from the Hill Station at 5,700 feet.

		RA	INFAL	L.	DAY	S OF	RAIN.
Month.		1936.		Average 30 years.	1936.		Average 30 years
January	 	2.05		1.67	 8		5
February	 	5.53		2.37	 13		5
March	 ***	4.51		4.53	 7		10
April	 	7.34	5.00	8.05	 20		17
May	 	1.86		5.12	 11		16
June	 	2.49		1.60	 11	,	8
July	 	0.10		0.67	 3		5
August	 	0.77		1.01	 7		6
September	 	0.61		1.11	 6		6
October	 ***	1.53		2.11	 9		8
November	 	2.84		4.69	 18		14
December	 	1.24		2.68	 6	***	10
Annual	 	30.87		35.61	 119		110

Less than the average amount of rain fell in Nairobi during 1936. This is the fourth consecutive year that rainfall has been below the average. The total for the year amounted to 30.87 inches, the average being 35.61 inches, or a deficiency of 13.6%. The deficiency for 1935, 1934, and 1933 was 12.6%, 35.3%, and 36.6% respectively.

The average monthly rainfall for the year was 2.57 inches against the average over 30 years of 2.97 inches.

The days of rain during 1936 totalled 119 compared with an average of 110, whilst the average fall of rain per rainy day during the year amounted to 0.26 inches compared with the average of 0.32 inches.

The rainfall was distributed over the seasons of the year as follows:-

Season.	1936.	Average 30 years.
Short dry season (January, February)	. 7.58	 4.04
Long rains (March, April, May)	. 13.71	 17.70
Long dry season (June to September)	. 3.97	 4.39
Short rains (October, November, December)	. 5.61	 9.48
Annual	. 30.87	 35.61

It is noted that the short dry season was the only one that registered an increase above the average and that to the extent of 87.6%.

The long rains, long dry season and the short rains were deficient to the extent of 22.5%, 9.5%, and 40.8% respectively.

Only three months during the year, namely January, February, and June recorded a rainfall in excess of the average.

The rainfall during January is usually erratic ranging from nil to a total of 5.06 inches which fell in 1930; the fall during 1936 was 2.05 inches compared with an average of 1.69 inches, an excess of 22.7%.

The fall during February amounted to 5.53 inches against an average of 2.37 inches. This was the third highest record for this month, previous excessive falls occurring in 1912 with 13.93 inches and in 1917 with 6.07 inches.

March with 4.51 inches was very near the average of 4.53 inches.

The fall during April being 7.34 inches was 8.8% below the average.

May with a fall of only 1.86 inches constituted the lowest record for that month with the exception of 1909 when only 78 points fell.

June with a fall of 2.49 inches was 55.6% above the average of 1.60 inches. This is the fifth highest record for this month.

July had the fourth lowest record for that month with a fall of only o.ic inches. Last year no rain at all fell during July.

August and September had poor rainfalls of 0.77 inches and 0.61 respectively compared with averages of 1.01 inches and 1.11 inches.

October with a fall of 1.53 inches was 27.4% below the average, whilst November had the fourth lowest record for the month with 2.84 inches, the average being 4.69 inches.

December had also a very low rainfall being over 50% below the average, the amount registered being only 1.24 inches.

Although the annual rainfall was below the average, the number of rainy days was somewhat more than the average, being 119 compared with 110, thus making the average fall per rainy day 0.26 inches against the average of 0.32 inches.

Although the total rainfall for the year was 13.6% below the average, the days of rain were remarkably well distributed so much so that there were no long spells of dry weather as might be expected.

The longest spell of dry weather occurred in July when there were 25 days without rain; the next longest was in January-February with 14 days. A dry spell of 14 days occurred in March, one of 13 days in August and also August-September, one of 12 days in May-June, and two of 11 days, one in January, and one in October. None of the remaining dry spells exceeded eight days.

ANNUAL RAINFALL.

Year.		Inches.		Year.	 Inches.		Year.		Inches.
1897		27.5	,	1911	 41.49		1925		27.83
1898		28.1		1912	 56.01		1926		33.25
1899		27.5		1913	 31.04		1927		24.86
1900		44.3		1914	 42.18	***	1928		28.91
1901		40.7		1915	 28.88		1929		36.50
1902		32.9		1916	 43.59		1930		58.88
1903		40.7		1917	 51.44		1931		39.58
1904	***	26.9		1918	 23.05		1932		39.85
1905		59.3		1919	 38.74		1933		22.68
1906		46.7		1920	 51.19		1934		23.12
1907		41.98		1921	 18.49		1935		31.24
1908		27.90		1022	 37.28		1936	***	30.87
1909		29.02		1923	 56.22				
1910		25.64		1924	 26.72				

Records for the years 1897 to 1906 are relatively accurate only.

6. POPULATION.

The population of the Municipality of Nairobi for 1936 has been estimated as under:—

Race.		Population
European's	 	5,600
Asiatics	 	16,000
Natives and others	 ***	28,000
All races	 	49,600

This total shows a slight decrease compared with 1935 when the total population was estimated at 50,300.

It is estimated the Europeans have increased by 70 or 1.26% and the Asiatics have decreased by 500 or 3.03%. Natives and others have remained stationary.

In the absence of another Census, these figures must be regarded as approximate only.

7. MARRIACES.

The following marriages were celebrated in Nairobi during 1936. The figures are not corrected for persons habitually resident in Nairobi.

European				 95
Goan				 4
Seychellois	3	***		 6
Mauritian				 3
Native		***	***	 6
				114

8. BIRTHS.

During 1933, the Municipal Council passed by-laws entitled "The Nairobi Municipality (Notification of Births) By-Laws, 1933." These by-laws require any birth, whether alive or dead, occurring within the Municipality to be notified within 48 hours, no races being exempt.

These by-laws have now been in force two years and the results are getting more accurate each year. It is estimated that over 80% of the Asiatic and Native births are notified. The statistics obtained from these notifications are set out in the table following:—

BIRTHS NOTIFIED.

	M		Res ths. Total.		Stillb	orn. Total.	М.	Birth	n-Res s. Fotal.	Sti	llborn	i. Total.	Births.	
British	. 39	36	75	1	_	1	26	15	41	_	1	1	116	2
German		L -	1	-	-	_	-				-	-	1	
Danish		- 1	1	-	_	-	-	-		-		-	1	-
Swedish		- 1	1	_		-	1	1	2	-	-	-	0	-
Norwegian	_		-	_	-	-	1		1	-	-	-	1	
Greek			-	-	-	-	-	1	1		-		1	
Indian	. 12	95		11	11	22	7	11	18	-	1	1	238	23
Goan	. 2	1 29	53	-	2	2	1	2	3	-	-	-	56	2
Japanese		L -	La Company	-	-	-	-			-	-	-	1	
Seychellois		2 —	-	1	-	1		_		_	_		2	1
Native	. 15	9 162	321	7	10	17	90	79	169	19	7	26	490	43
Arab		2 3	5	-	-	-	-	-		-	-	-	5	
Somali		1	1	-	-	-			-	-		-	1	-
Nubian	. –	- 1	1	_	1	1	_			_		_	1	1
Total	. 35	1 328	682	20	24	44	126	109	235	19	9	28	917	72

MULTIPLE BIRTHS.

Twins were recorded in one instance among non-resident British, in three instances among resident Asiatics, in six instances among resident Natives and in two instances among non-resident Natives.

The sexes of these multiple births are enumerated below.

TWINS.

Race.		R	Resident.	No	n-resident.
British	 				M-M
Indian	 ,		F-F		
			F-F		
			M-F		
Native	 		F-F		F-F
			F-F		M-M
			M-M		
			M-F	***	
			M-F	***	
			M-F	***	
			4 F-F		2 M-M
Total	 		ı M-M		ı F-F
			4 M-F		

BIRTH RATES.

It will be noted that Asiatics have the highest birth rate of the different races with 17.0 per thousand of population, Natives have the lowest with 11.8, and Europeans hold the middle position with 13.9. The birth rate for all races for 1936 was 13.7 per thousand of population.

BIRTH RATES AND NATURAL INCREASE.

Race.	Births.			Rate per 1 populatio	Deaths	i.	Nat Numbe	increase. Rate per 1000 population.	
European		78		13.9	 50		28		
Asiatic		273			 259	,	14		0.8
Native		331		11.8	 487		- 156	,	-5.7
All races		682	٠	13.7	 796		-114		-2.3

Owing to the difficulty in obtaining accurate figures for Native births, the total given must be regarded as approximate only.

The low rate for Natives is largely accounted for by the fact that about 88% of the natives within the Municipality are males, their families being left in the Reserves.

STILLBIRTHS.

The figures relating to stillbirths are given in the tables following.

The difference between the percentage of stillbirths to resident natives and non-resident natives should be noted.

There can be little doubt that the work performed by the Ante-natal Clinics is partly responsible for the large difference.

The proportions of stillbirths to total births for the races were as under:

RESIDENTS.

Race.		Births.	St	illbirth	s.	Percentage to births.
European	 	 78		I		1.2
Goan	 	 53		2		3.7
Indian	 	 220		22		10.0
Natives	 	 321		17		5.2
Others	 	 10		2		20.0
Total	 	 682		44		6.4

NON-RESIDENTS.

Race.	1		Births.	St	tillbirth	Percentage to births.	
European		 	45		I		2.2
Goan		 	3	***	- '		0.0
Indian		 	3 18		I		5.5
Native		 	169		26		15.3
Others		 	_		_		_
Total		 	235		28	5	11.9

9. DEATHS.

Unless otherwise stated, the following statistics refer to residents of Nairobi only, including the prison population. They have been corrected for outward transfers but not for inward transfers.

Rates have been calculated according to the estimated population for

The total number of deaths reported in Nairobi during the year was 1,164, equivalent to a crude death rate for all races of 23.29 per thousand persons compared with a rate of 19.78 for 1935.

The number of deaths from all causes among persons stated to be normally resident in Nairobi was 796, equivalent to a recorded death rate for all races of 15.92 per thousand persons, compared with 13.90 for 1935 and 14.86 for 1934.

Of the 796 deaths among residents, 511 were of males and 285 were of females.

294 or 36.9% of the deaths were of infants of one year and under.

50 deaths occurred among Europeans, 28 male and 22 female, equivalent to a rate of 8.92 per thousand persons of that race.

259 deaths occurred among Asiatics, 154 male and 105 female, equivalent to a rate of 16.18 per thousand persons of that race.

487 deaths occurred among Natives and other races, 329 males and 158 females, equivalent to a rate of 17.39 per thousand persons.

DEATHS BY RACE AND SEX.

		White.	Indian.	Goan.	Native.	Somali.	Sey- chellois.	Arab.	Nubian.	Total
Resident.	М.		144	10	312	9	7	1	_	511
	F.	22	101		151	6		I		285
Total		50	245	14	463	15	7	2	_	796
Non-resident	М.	16	8	_	223	3	-			250
	F.	11	2	I		1	-	-	2	118
Total		27	10	I	324	4	-	_	2	368
TOTAL	,	77	255	15	787	19	7	2	2	1164

COMPARISON OF DEATH RATES FOR RACES FOR 11 YEARS.

		European		Asiatic.	Native.	1	All Races.
1926		13.5		30.3	 17.3		20.5
1927		13.8		29.2	 16.5		18.9
1928		12.8	***	23.3	 16.1		17.9
1929		8.4		17.0	 13.4		13.7
1930		11.8		20.7	 15.2		16.2
1931	,	4.7		14.3	 15.2		13.7
1932		5.6		13.5	 10.7	***	11.0
1933		7.1		14.8	 15.0		14.0
1934		8.5		15.1	 15.9		14.8
1935		6.1		12.2	 16.4		13.9
1936		8.9		16.1	 17.3		15.9

AVERAGE DEATH RATES.

Race.		10 years' average 1927-36	5 years' average 1927-31	5 years' average 1932-36	1936	
European	,	8.7	 10.3	 7.2		8.9
Asiatic		17.6	 20.9	 14.3		16.1
Native		15.1	 15.2	 15.0		17.3
All Races		15.0	 16.0	 13.9		15.9

It is noted that the European death rate during the past five years has declined by 30.0% below that for the previous five years.

Over a similar period the Asiatic death rate has declined by 31.5% and the Native death rate has declined by 1.3%. The rate for all races has decreased by 13.1.%

The European death rate for 1936 is above that of the average for the

past five years to the extent of 1.7 or 23.6%.

The Asiatic death rate for 1936, compared with a similar period, has increased by 1.8 or 12.5%, and the native rate is above the five years' average to the extent of 2.0 or 14.3%.

MONTHLY INCIDENCE OF DEATHS BY RACE.

Month.	White.	Indian.	Goan.	Native.	Somali.	Other.	Total.	Percentage of total.
January	 1	14	3	38	1		57	7.16
February	 4	20	_	25	I	2	52	6.53
March	 3	23	I	32	I	3	63	7.92
April	 3	25	_	33	2	_	63	7.92
May	 9	29	1	44	I	1	85	10.68
June	 5	25	4	42	I	_	77	9.68
July	 5	25	3	46	I	_	80	10.05
August	 6	22		50	I	I	80	10.05
September	 4	11		52	2	I	70	8.79
October	 2	13	1	33	_	I	50	6.28
November	 4	20	_	32	2	_	58	7.29
December	 4	18	I	36	2	_	61	7.66
Total	 50	245	14	463	15	9	796	100.00

DEATHS BY QUARTERS.

			Number of deaths	Percentage of total.
First quarter	 		172	 21.61
Second quarter	 		225	 28.27
Third quarter	 		230	 28.89
Fourth quarter	 	***	169	
Total	 		796	 100.00

The most deaths occurred in May (85), July (80), August (80), and the fewest in October (50), February (52), January (57).

CAUSES OF DEATH BY GROUP AND RACE.

	International cause of death		White.	Indian.	Goan.	Native.	Somali.	Others.	Total.
1.	General diseases		6	35	3	96	5	-	145
2.	Géneral diseases (not included	above)	6	13	_	4	1	1	. 25
3.	Diseases of the nervous syste	m	4	10	1	20		1	36
4.	Diseases of the circulatory sy	ystem	9	8	_	5		1	23
5.	Diseases of the respiratory sy	ystem	10	100	7	214	7	2	340
6.	Diseases of the digestive syste	m	-	18	1	21	-	-	40
7.	Non-venereal diseases of the g	genito							
	urinary system and annexa		4	4	1	8		-	17
8.	The puerperal state		1	4	-	2	1	-	8
9.	Diseases of the skin		_	-	-	1	-	_	1
10.	Diseases of the bones			-		1	1	_	1
11.	Congenital malformations		1	3	_	2		-	- 6
12.	Diseases of early infancy		2	36	1	35	1	1	76
13.	Old age	***	1	3	_	3	2000	-	7
14.	External causes		6	3	-	29		2	40
15.	Ill defined causes	***	_	8	-	22	-	1	31
	Total		50	245	14	463	15	9	796

CAUSES OF DEATH BY GROUP WITH THE PERCENTAGE TO TOTAL AND RATE PER 1,000 POPULATION.

	International cause of death.		Numbe	r.	% of of total.		ate per 1,000 population.
1.	General diseases		145	***	18.22		2.901
2.	General diseases (not included about	ove)	25		3.14		0.500
3.	Diseases of nervous system		36		4.52		0.720
4.	Diseases of the circulatory system .		23		2.89		0.460
5.	Diseases of the respiratory system.		340		42.71		6.803
6.	TO: 0 12 21 11		40		5.02		0.800
7.	Non-venereal diseases of the genite	o-urinar	V				
	evetom and annova		17		2.14		0.340
8.	The programaval state		8		1.01		0.160
9.	Discourse of the skin		1		0.13		0.020
0.	Discasses of the bones		1		0.13		0.020
1.	Concenital malformations		6		0.75		0.120
2.	Diseases of early infency		76		9.55		1.520
3.	Old ago		7	***	0.88		0.140
4.	External causes		40		5.02		0.800
5.	Ill defined causes		31		3.89	***	0.620
	Total		796	4	100.00		15.924

The order of importance of the groups corresponds substantially with the order given in last year's report.

The figures in brackets in the text relate to the returns for 1935.

As is usual "Diseases of the respiratory system" heads the list as being concerned with the greatest number of deaths.

This group accounted for 340 (267) deaths or 42.7% (38.3%) of the total deaths, equivalent to a rate of 6.80 (5.33) per thousand of population.

Deaths under this heading were:-

Pneumonia		***	229	(191)
Broncho-pneumonia	·		97	(66)
Bronchitis			8	(6)
Asthma			5	(4)
Gangrene of lung			I	

"General diseases" comes next in point of numbers with 145 (165) deaths or 18.2% (23.7%) of the total deaths, the equivalent rate per thousand population being 2.90 (3.29).

Deaths under this group include:

Malaria			32	(58)	Plague		 	5
Syphilis		***	23	(15)	Dysentery			5
Cerebrospinal me	ningit	s	16	(16)	Influenza		 	4 (1
Tuberculosis				10.	Erysipelas		 	4 (3)
Septicaemia			13	(7)	Tetanus		 	4 (4
Typhoid fever			1000	(17)	Blackwater	fever	 ***	2 (3
Measles					Diphtheria		 	2.00
Whooping cough			6	(1)				

Deaths under the heading of "Diseases of early infancy" totalled 76 (58) or 9.5% (8.3%) of the total deaths, the equivalent rate per thousand of population was 1.52 (1.15).

The causes of death were :-

Marasmus			38	(18)
Prematurity		***	29	(35)
Asphyxia neonat.			5	(2)
Pulmonary collapse			2	(1)
Cerebral haemorrha	ge		I	
Intestinal obstruction	on		I	

The next group in point of numbers is "External causes" which accounted for 40 (46) deaths or 5.0% (6.6%) of the total deaths, with an equivalent rate per thousand population of 0.80 (0.91).

Deaths under this group include :-

Judicial hanging	 	13 (10)	Fracture	 2 (3)
Road accidents	 	11 (11)	Burns	 1 (5)
Suicide	 	5 (6)	Aeroplane accident	 I
Homicide	 	3 (5)	Electrocution	 1 (1)
Drowning	 	3 (1)		

It should be noted that although the deaths from road accidents are similar in number to last year, the total is high. The deaths from this cause for the past six years have been: 5, 6, 5, 8, 11, and 11 respectively.

"Diseases of the digestive system" accounted for 40 (35) deaths or 5.0% (5.0%) of the total deaths, the equivalent rate per thousand being 0.08 (0.69).

The individual causes were :-

Diarrhoea (under two)	 22	(18)	Ascariasis		1 (1)
Diarrhoea (over two)	 2	(3)	Appendicitis		I
Intestinal obstruction	 6	(2)	Hypertrophy of liver		I
Cirrhosis of liver	2		Peritonitis		1 (2)
Tonsillitis	2	A. C.	Cellulitis neck	***	I
Gastric ulcer	 I	(1)			

"Diseases of the nervous system" was responsible for 36 (39) or 4.5% (5.6%) of the total deaths, with an equivalent rate per thousand population of 0.72 (0.77).

The details were :-

Meningitis		13 (18)	Cerebral abscess	
Convulsions		4 (4)	Myelitis	 1 (2)
Hemiplegia		4	Cerebral embolism	 I
Cerebral haemorrhag	re	4 (8)	Cerebral thrombosis	 I
Encephalitis		3 (1)	Epilepsy	 1 (1)
Cerebral tumour		2 (1)		

The group of "Ill defined causes" is next in order of numbers with 31 (28) deaths or 3.8% (4.0%) of the total deaths, the equivalent rate per thousand population being 0.62 (0.55).

The recorded causes	under th	is group	were :
---------------------	----------	----------	--------

Unknown	 	18 (20)	Debility	 	 1
		7 (3)	Coma		
Natural causes	 	2 (3)	P.U.O.	 	 1 (1)
Surgical shock	 	I			(-)

Group 2 of "General diseases" is next with 25 (16) deaths or 3.1% (2.3%) of the total deaths, making a rate per thousand population of 0.50 (0.32).

The diseases concerned were :-

Cancer	 	8 (7)	Alcoholism		I
Rickets	 	5	Parathyroid tetany	v	1
Anaemia	 	/ \	Cretinism		I
Rheumatism	 	2 (1)	Diabetes		2 (1)
Haemophilia	 ,	I	Neoplasm		2 (

"Diseases of the circulatory system" accounted for 23 (14) deaths or 2.8% (2.0%) of the total deaths; the equivalent rate per thousand population was 0.46 (0.28).

Diseases under this heading include:-

Heart disease	 16 (12)	Aneurysm		 I
Pulmonary embolism	 2	Endocarditis		 1 (1)
Angina pectoris	 2	Pericarditis	***	 1 (1)

"Non-venereal diseases of the genito-urinary system and annexa" comes next with 17 (11) deaths or 2.1% (1.5%) of the total deaths, with a rate per thousand population of 0.34 (0.22).

The causes of death were :-

Nephritis	 	13 (6)	Pyometritis		I
Pyosalpynx	 	1 (2)	Vesico-vaginal fistula	i	1
Fibroids uterus	 	1 (1)			

"The puerperal state" accounted for 8 (9) or 1.0% (1.2%) of the total deaths, making a rate per thousand population of 0.16 (0.18).

The diseases concerned were :-

Eclampsia	 	3 (2)	Caesarean section	 1
Puerperal sepsis		1 (2)	Placenta praevia	 I
Alba dolens	 	I	P.P.H	 I (2)

Seven deaths occurred under the group "Old age "compared with four during the previous year.

"Congenital malformations" was responsible for six deaths compared with two during 1935.

The items were :-

Congenital hear	t disea:	se	2	Cephalocele	 	1
Myelocele	***		I	Monstrosity	 	I
Anencephaly			I			

One death occurred under each of the groups "Diseases of the skin" and "Diseases of the bones," the former being due to cellulitis and the latter to septic arthritis.

AGE GROUP DISTRIBUTION OF POPULATION AND DEATH BY RACES.

EUROPEAN.

				EURO						
Age group.		Estimated distribution population.		Estimated population.		Number f deaths		Deaths % age group		Distribution of deaths.
O- 1		37.865		212		5		2.35		100.000
2-4		55.548		311		I		0.32		20.000
5-9		81.706		458		2		0.43		40.000
10-14		50.914		285		_		_		
15-19		45.609		255		-	***	-		
20-24		82.743		463		I		0.21		20.000
25-29		124.754		699		1		0.14		20.000
30-34		126.645		709		2		0.14		40.000
35-39	2	117.864		660		5		0.75		100.000
40-44		94.633		530		7		1.32		140.000
45-49		66.340		372		2		0.53		40.000
50-54		48.692		274		4		1.46		80.000
55-59		29.877		+6-		5		2.99		100.000
60-64		18.597		104		4		3.84		80.000
65-69		9.268		52		4	V	7.69		80.000
70-74		5.121		. 29		2		6.89		40.000
75-79		2.560		14		2		14.28		40.000
80-84		0.914		5		3		60.00		60.000
85-89		0.060		I		_		i i i i i i i i i i i i i i i i i i i		12-70
90-94	***	_				_				
		000 000		5,600		50		0.89		1,000.000
		999.990	200	5,000		20	***	0.00		1,000.000
-		999.990	2					0.09		1,000.000
		999.990	211	ASIA			***	0.09	•••	1,000.000
Age group.		Estimated distribution population.			TI		.]	Deaths %	of	Distribution of deaths.
	310	Estimated distribution population.		ASIA Estimated population.	TIO	C. Number deaths	. 1	Deaths % age group	of	Distribution of deaths.
group.		Estimated distribution population.		ASIA Estimated population.	TIO	C. Number deaths	.]	Deaths % age group	of	Distribution of deaths.
group. 0— 1 2— 4		Estimated distribution population.		ASIA Estimated population. 997 1,498	TI of	C. Number deaths		Deaths % age group	of	Distribution of deaths. 540.540 77.220
group. 0— 1 2— 4 5— 9		Estimated distribution population. 62.319 93.620 111.620		ASIA Estimated population. 997 1,498 1,786	TIO	C. Number deaths	·]	Deaths % age group 14.04 1.33 0.61	of b.	Distribution of deaths. 540.540 77.220 42.471
group. 0— 1 2— 4 5— 9 10—14		Estimated distribution population. 62.319 93.620 111.620 79.755		ASIA Estimated population. 997 1,498 1,786 1,276	TI of	C. Number deaths	s.	Deaths % age group 14.04 1.33 0.61 0.39	of	Distribution of deaths. 540.540 77.220 42.471 19.305
group. 0— 1 2— 4 5— 9		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716		ASIA Estimated population. 997 1,498 1,786 1,276 1,467	TIO	C. Number deaths 140 20 11 5 1	·]	Deaths % age group 14.04 1.33 0.61	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176	TI of	Number deaths	·	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913	- 1 of	C. Number deaths 140 20 11 5 1 5	s	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599	TIO	C. Number deaths 140 20 11 5 1 7	s	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157	.TIO	C. Number deaths 140 20 11 5 1 5 8 7 14		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844	TIO of	C. Number deaths 140 20 11 5 1 7	s	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512	TIO	C. Number deaths 140 20 11 5 1 7 14 9	s	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323	TIO	C. Number deaths 140 20 11 5 8 7 14 9 6 13	\$.	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118	TIO	C. Number deaths 140 20 11 5 8 7 14 9 6	s	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147	1 of	C. Number deaths 140 20 11 5 8 7 14 9 6 13		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65—69		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164 4.935		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147 79	TIO	C. Number deaths 140 20 11 5 8 7 14 9 6 13 7		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93 2.53	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021 7.722
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65—69 70—74		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164 4.935 3.313		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147 79 53	TIO of	C. Number deaths 140 20 11 5 8 7 14 9 6 13 7	\$	Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93 2.53 5.66	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021 7.722 11.583
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65—69		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164 4.935 3.313 1.504		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147 79 53	TTO of	C. Number deaths 140 20 11 5 8 7 14 9 6 13 7 2 3 1		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93 - 2.53 5.66 4.16	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021 7.722 11.583 3.861
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65—69 70—74 75—79 80—84		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164 4.935 3.313 1.504 1.363		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147 79 53 24 22	TIO of	C. Number deaths 140 20 11 5 8 7 14 9 6 13 7 2 3		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93 - 2.53 5.66 4.16 13.63	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021 7.722 11.583 3.861 11.583
group. 0— 1 2— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65—69 70—74 75—79		Estimated distribution population. 62.319 93.620 111.620 79.755 91.716 135.989 119.539 99.941 72.306 52.732 31.982 20.185 7.402 9.164 4.935 3.313 1.504		ASIA Estimated population. 997 1,498 1,786 1,276 1,467 2,176 1,913 1,599 1,157 844 512 323 118 147 79 53 24 22 4	TIO of	C. Number deaths 140 20 11 5 8 7 14 9 6 13 7 2 3 1		Deaths % age group 14.04 1.33 0.61 0.39 0.06 0.22 0.41 0.43 1.21 1.06 1.17 4.02 5.93 - 2.53 5.66 4.16	of	Distribution of deaths. 540.540 77.220 42.471 19.305 3.861 19.305 30.888 27.021 54.942 34.749 23.166 50.193 27.021 7.722 11.583 3.861

... 259 ...

1.61

999-975

999.995 ... 16,000

NATIVE.

Age group.		Estimated distribution Estim population. popula		Tumbe death		eaths % o	Distribution of deaths.
o— I	,	Not known		150		Not	 308.008
2- 4		12	347	33		known	 67.762
5-9	1.11	22		19		,,	 39.014
10-14	***	"		14		,,	 28.747
15-19		1,1		9	5	,,	 18.480
20-24*		,,		29		,,	 59.548
24-29		,,		119		,,	 244.353
30-34		,,		43		,,	 88,296
3539		,,		36		,,	 73.922
40-44		,,		4		,,	 8.213
45-49		,,,		12	***	,,	 24.641
50-54		,,		8		,,	 16.427
55-59		,,		4		,,	 8.213
60-64		,,		3		,,	 6.160
65-69		,,,		-		,,	
7074		,,		2		,,	 4.107
74-79		,,				,,	 -
80-84		,,		I		,,	 2,053
85-89		,,		-		,,	 _
90-94	800	,,		1		,,	 2.053
95-99	***	"	111	_		,,	 -
		— 28,000	0	487		-	 999-997

^{* 68} Native deaths recorded as "adults" have been included in the groups 20—39. The age group distribution for Nairobi has been taken in the same proportion as the age group distribution for the whole Colony, as published in the report on non-native census taken in 1931.

CAUSES OF DEATHS.

International causes of deaths.	White.	Indian.	Goan.	Native.	Somali.	Seychellois.	Arab.	TOTAL.
Group I. GENERAL DISEASES.								
1. Enteric fever	1	2		4	_			7
5. Malaria	_	9		20	3			32
7. Measles		4	-	2	_			6
9. Whooping cough	2		1	3		-		6
10. Diphtheria	_	2	-	_			-	
11. Influenza		1	1	2			-	2 4 5
16. Dysentery	-	3	-	2			-	5
17. Plague			-	5				5
21. Erysipelas	-	4	-	-				4
24. Cerebrospinal meningitis	1	2		13	-			16
25. Blackwater fever		2	-	-	-	-	-	2
29. Tetanus	-	1	-	3		-	-	4
31. Pulmonary tuberculosis	1	1	1	7	-		-	10
33. Tubercular peritonitis	-	1	-	1		-		2
34. Tuberculosis of spine	_	-	_	1		_	_	1
36. Tubercular glands	-	1		-			-	2
37. Disseminated tuberculosis		more.	-	2	-		-	
38. Syphilis	1	2		23	2		-	23 13
41. Septicaemia	1	2		0	4			13

					-	Ten in	, si		
Inter	national causes of deaths.	White.	Indian.	nu.	Native.	Somali.	Seychellois.	·q	TOTAL
		W	Inc	Goan.	Na	Soi	Sey	Arab.	To
Comm	II Comp D								
44.	p II. General Diseases (r Cancer of stomach	not incl	uded at	oove).					2
45.	Intestinal cancer	_	1		1				2
47.	Cancer of breast	_	1				-		1
49.	Secondary carcinoma	1	-	-	-	-	-	_	- 1
	Carcinoma of pancreas	-	1	-	-	_	-	-	1
50.	Sarcoma	-		-	1	-	-		1
51.	Neoplasm Rheumatism		1			_	1		1 2
56.	Rickets *	_	4	_	-	1	_		2 5 2 3
57.	Diabetes	1	1	_			_	-	2
58.	Anaemia	2	1	-	_	_	_	-	
60.	Cretinism	-	1	-	-				1
61.	Parathyroid tetany	-	-	_	1	-	_		1
66. 69.	Alcoholism Haemophilia	1	=	_	1			_	1
05.	Haemophilia	1					-		-
Grou	p III. DISEASES OF THE M	VERVOU	s Syste	M					
70.		2	1		-	-		_	3
	Cerebral abscess		1	_	1	_		_	2
71.	Meningitis	_	2	_	10	-	1	-	13
73.	Myelitis	_	-	-	1	-		-	1
74.	Cerebral haemorrhage	2	-	-	2	-		-	4
	Cerebral embolism		1			-			1
75	Cerebral thrombosis		2	1	1				4
75. 78.	Hemiplegia Epilepsy		4		1				1
80.	Convulsions	_	3		1		_		4
84.	Cerebral tumour	-		_	2	-	-		2
	up IV. DISEASES OF THE C		TORY SY	STEM.					
87.	Pericarditis	1	1			-		-	1
88.		1	1	_			_		2
89. 90.	Angina pectoris Heart disease	6	5		4	_	1		16
91.	Aneurysm	_	_		1		_		1
92.		1	1		_	_	_	_	2
	up V. DISEASES OF THE RI	ESPIRAT	ORY SYS		-				
99.		4	2	1 7	3	1	1	1	97
100. 101.			36 59	3	55 154	1 6	1		229
104			_		1			_	1
105		4	3	_	1		-	-	5
	oup VI. DISEASES OF THE D	GESTIV		EM.					4
108				-	1		-		1 2
109			1	_	1				1
112 113			14	1	7	_		-	22
114			_	_	2		-	_	2
116			_	_	1	_	No.	-	
117			1	_	-	-	married.	-	1
118	. Intestinal obstruction		_	-	6	- 33	-	1	6
122			-	-	2	-			2
124			1	_	_	-	-		1
126	. Peritonitis	—	1						1
-			-						

CAUSES OF DEATHS (Continued).

								-	ois.		
Inter	national causes of	deaths	š.	White.	Indian.	Goan.	Native.	Somali.	Seychellois	Arab.	TOTAL
	p VII. Non-Veni	EREAL]	DISE	ASES C	OF THE (GENITO-	URINAR	y Syst	EM.		
128. 129.	Acute nephritis	***		-	_		1	-	-		1
134.	Chronic nephritis Vesico-vaginal fis			3	3	1	5	-	-		12
138.	Pyosalpynx			-	1		_				1
139.	Fibroids of uteru	18		1	-	-	-	-	-		1
141.			105				1	-	-	-	1
Grou 144.	Placenta praevia			ATE.	,						
147.	Postpartum haen		re		1			_	_		1
145.	Caesarean section	1		1		-	_	_		_	î
146. 147.	Puerperal septica	aemia		-	1	-		-	_	-	1
148.	Alba dolens Eclampsia				1	_	2	1			3
	p IX. Diseases of			N AND	N. S.	AD Tre	75				J
153.	Cellulitis		DKI.	N AND	CELLUI		SUE.		_		1
Gron	p X. Diseases of	THE T	RONE	ES ANT	JOINTS						
	Ct 11 11 11			-	- OUINIS	-	1		-	-	1
Grou	p XI. Congenita	L MAL	FORA	TATION	s.						
159.	Congenital heart			1	_	_	1	_	_	_	2
				=	1	-	-	-	-	-	1
	Anencephaly Cephalocele				1				_		1
	Monstrosity				_	-	1	-	_	_	1
Grou	p XII. DISEASES	OF EAR	RLY	Infan	CY.						
160.				-	15	_	22	1	-	-	38
161. 162.	Prematurity Asphyxia neonat			1	16		12		1	_	29 5
102.	Pulmonary collap				2	_	_	_			2
	Cerebral haemori	rhage		-	-	1			-	-	1
	Intestinal obstru	ection					1	-	100	-	1
	p XIII. OLD AG	Ε.			-		-				-
	Senility			1	3	-	3	-	-	-	7
	P XIV. EXTERNA				1						1
165. 168.	Suicide by poiso Suicide by hangi			2	1	_	1		_	_	3
170.	Suicide by firear			1		-		-	_	_	1
179.	Burns					-	1		-	-	1 3
182. 185.	Drowning Aeroplane accide	nt		1		_	3				1
188.	Road accidents		***		2	_	8		-	1	11
196.	Electrocution								1	-	1
197.	Homicide by fire			1		-	2			_	2
199. 201.	Homicide by othe Fracture	er mea	ns	1			1				2
202.	Judicial hanging			_	-	-	13		-	-	13
Grou	p XV. ILL DEFI		SEAS	ES.							
205.	Heart failure			-	6		_	-	1	-	7
	Natural causes				1		2			_	2
	P.U.O Coma	***			1		1	-		-	1
	Debility			-			1	-		-	· 1
	Surgical shock		***	-	1		18				18
	Unknown	***	***	50	245	14	463	15	7	2	796

10. INFANT MORTALITY.

The total number of deaths in infants of one year of age and under during 1936 was 294 or 36.9% of the total deaths compared with 217 and 31.1% during the previous year.

Reference to the age distribution table in the previous section shows among Europeans, out of every 1,000 deaths, 100 were of the 0—1 age group

and that during 1936, 2.35% of that age group died.

Similarly among Asiatics, out of every 1,000 deaths, 540 were of the o-1 age group and during the year 14.04% of that age group died.

Not knowing the age group distribution for Natives all we are able to

say is that out of every 1,000 deaths, 308 were of the o-1 age group.

In previous years infant mortality has been expressed as a percentage of total deaths and the practice will be continued for comparative purposes.

INFANT DEATHS.

Race.	- 717	Infant deaths.	Total deaths.	Percentage total deaths		
White		 4	 50		8.00	
Asiatic		 140	 259		54.05	
Native and	other	 150	 487		30.80	
All races		 294	 796		36.93	

INFANT DEATHS FOR TEN YEARS.

			Pe	rcentag	e of to	otal dea	aths.				Average
Race.	1927.	1928.								1936.	10 years
White	 13.5	8.3	23.7	13.2	12.0	9.6	5.4	17.3	8.8	8.0	11.9
Asiatic	 37.7	34.5	44.9	42.7	44.6	45.8	52.2	42.1	50.9	54.0	44.9
Native	 5.8	13.1	15.4	10.6	20.6	17.3	21.2	19.2	24.1	30.8	17.8
All races	 18.6	20.6	24.3	20.6	29.5	28.0	30.7	26.5	31.1	36.9	26.2

It will be noted that the percentage of infant deaths for all races to total deaths during 1936 increased by 18.6% compared with 1935 and by 40.8% compared with the ten years average. The rate for Europeans was slightly decreased but the rates for Asiatics and Natives were appreciably increased.

The true infant mortality, that is the percentage of deaths to live births,

is set out in the table under.

INFANT MORTALITY RATES.

Race.		Live birt	hs.	Deaths.		Per 1,000 live births
White	 	 77		4		51.9
Asiatic	 	 249		129		518.0
Native	 	 312		140	***	448.7
Total	 	 638		263		412.2

As it is of practical interest to know at what months these infant deaths occurred, the three tables giving this information are appended.

27

DEATHS AT ONE MONTH OR UNDER.

Race.		1	2 WE	EKS. 3	4	One month or under.
WHITE.	Deaths	3	1	_	_	4
	Percentage live births	3.8	1.2	-	-	5.1
ASIATIC.	Deaths	28	9	3	10	50
	Percentage live births	11.2	3.6	1.2	4.0	20.0
NATIVE.	Deaths	22	5	2	15	44
	Percentage live births	7.0	1.6	0.6	4.8	14.1
TOTAL :	Deaths	53	15	5	25	98
	Percentage live births	8.3	2.3	0.7	3.9	15.3

DEATHS FROM ONE MONTH TO SIX MONTHS.

Race.			1	2	Mon 3	THS. 4	5		6 months or under.
WHITE.	Deaths		4	_	_		-	_	4
	% live births		5.1	-	-	-	-	-	5.1
ASIATIC.	Deaths	***	50	11	6	3	4	10	84
	% live births		20.0	4.4	2.4	1.2	1.6	4.0	33.7
NATIVE.	Deaths		44	10	12	7	4	10	87
	% live births	***	14.1	3.2	3.8	2.2	1.2	3.2	27.8
TOTAL:	Deaths		98	21	18	10	8	20	175
	% live births		15.3	3.2	2.8	1.5	1.2	3.1	17.5

DEATHS FROM SEVEN MONTHS TO TWELVE MONTHS.

Race.			7	8	9	10	11		7 months to 1 year.
WHITE.	Deaths			_				_	_
	% live births	(0.4.1	-	-				-	-
ASIATIC.	Deaths		6	6	5	2	5	21	45
	% live births		2.4	2.4	2.0	0.8	2.0	8.4	18.0
NATIVE.	Deaths		5	6	5	6	3	28	53
	% live births	*	1.6	1.9	1.6	1.9	0.9	8.9	16.9
Total:	Deaths		11	12	10	8	8	49	98
			1.7	1.8	1.5	1.2	1.2	7.6	15.3

The causes of infant mortality and the seasonal incidence are indicated in the following tables:—

INFANT MORTALITY.

	White.	Indian.	Goan.	Native.	Somali.	Seych.	Arab.	Total.
Angeographolica		1						1
Anencephalus	1	_						1
Apnoea	-	3				1	_	4
Asphyxia neonatorum Bronchitis		1	1	3	-			5
		32	1	45	1		1	80
Broncho-pneumonia Cellulitis	_	_		1	_	_	_	1
a 1 1 1		_	1			-		1
a transaction		_	_	1				1
	_	1	_	1		_		2
a distant		1		1 1	_			1
		14	1	5	_			20
Diarrhoea	_	1	_	_	_		-	1
Diphtheria	_	2						2
Dysentery		1						1
Encephalocele		3						- 3
Erysipelas		_		1				1
Hernia		1		5		1		7
Ill defined Influenza	_	1		2		-		2
Totalian 1 - betweeting			-	1			-	1
		3		4	_	_	_	7
35		14		15			_	29
		4	_					4
Maninaitia			_	3		1		4
35				1				1
Markensky		1	_	_	-			1
D.		29	1	20	2	_	_	52
Dogga tunitu	1	16	_	12	_			29
Pulmonary collapse		2	_		-	_	-	2
Rickets		4	_		_		_	4
Septicaemia		_		2		_	-	2
Syphilis		_	_	17	_	_	-	17
Tetanus		1	-	1	neces.	_	_	2
Tetany		-	_	1		_	-	1
Whooping cough	0	-	-	2	-	-	-	4
TOTAL	4	135	5	143	3	3	1	294

SEASONAL INFANT MORTALITY.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Anencephalus Apnoea	_	_	<u>_</u>	_	_	_	_		1	_	_	_	1 1
Asphyxia neonatorum	-	_	3	_	_	_	1	-		-		_	4
Bronchitis	2	1	-	-	-	1	1	-					5
Broncho-pneumonia	7	5	7	5	11	9	7	11	5	3	3	7	80
Cellulitis	-	-	-			-			-	-	-	1	1
Cerebral haemorrhage	1	-	-	-	-	-	-			-	-	-	1
Congenital heart disease	-	-	1	-			100	-		-	1	-	1
Convulsions		-	-	1				-	-	-	1	-	2
Cretinism Diarrhoea	2	-	2	1 4	3	2		1	-	2	2	-0	1
Distable sais			1	4	0	4		1				2	20
December			1	1					2			_	2
Encephalocele	_	1					-						1
Erysipelas	1	_				-	1	1	-	-			3
Hernia	_		1			-		_					1
Ill- defined	_	-		1	2	2		_		2	_	-	7
Influenza	-	1	-			-		-	1	-	-	-	2
Intestinal obstruction		_	-		1	_			_	-	_	-	1
Malaria	1	3	_		1	1	-	-		-	-	1	7
Marasmus	5	1	2	1	5	3	5	5		1	1		29
Measles	-	-	- 1	3	-		-		-	-	-	-	4
Meningitis	-	4	_	-	-	-	-	-	-	-	-	-	4
Monstrosity	1	-		-	-		-	-	-	-	-	-	1
Myelocele		-	-0			7	8	3	5	1 1	4	7	52
Pneumonia	4 3	1 2	2	7 3	7 5	2	-0	1	1	4	4	3	29
Prematurity	0	4	1	0	0	4		1	1	-4	1	1	2
Pulmonary collapse Rickets					2						1	1	4
Claudingomia	_						-	1		_	_	1	2
Oran Lilia	1	1	1	2	1	1	2	î	1	2	1	3	17
Tetanus	_	_		1	_		_	-	_		1	_	2
Tetany	-	_	_	-	-	-	-		1	-	-	-	1
Whooping cough	2	-	-	1	1		-	-	-	-	-	-	4
	30	21	23	30	39	28	25	24	15	16	20	23	294

SEASONAL INFANT MORTALITY FOR THE RACES.

		White.	Indian.	Goan.	Native.	Somali.	Seychellois.	Arab.	Total
January			10	1	18	1		_	30
February		1	9		10	-	1	-	21
	***	1	13	-	8	-	1	-	23
March		1	13		16			-	30
April	***	1	19		18	-		1	39
May		1	17	1	10				28
June	***	_		2	14				25
July			9		10	1			24
August	44.0	-	13	-		1			15
September		-	5		10		1		16
October		-	6	_	9	-	1	-	
November			9	-	10	1		-	20
December			12	1	10		-	-	23
-		4	135	5	143	- 3	3	1	294

COMPARISON OF THE PERCENTAGE OF THE FOUR PRINCIPAL CAUSES OF INFANT MORTALITY TO TOTAL INFANT DEATHS FOR TEN YEARS.

		Perc	entage	e to to	otal of	Infa	nt Dea	aths.			Average
	1927.	1928.	1929.	1930.	1931.	1932.	1933.	1934.	1935.	1936.	10 yrs.
Pneumonia	47.9	32,6	32.0	44.6	41.7	35.1	41.1	37.4	44.7	44.9	40.3
Congenital debility	15.4	10.6	11.9	10.0	15.9	12.9	14.4	9.6	8.3	9.8	11.8
Prematurity											
Diarrhoea											

It will be noted that pneumonia still holds the position as principal cause of infant deaths, during 1936. This condition accounted for 44.9% of the total deaths, being considerably above the ten years average and slightly above the figure for 1935.

Prematurity and debility each accounted for 9.8% of the total deaths, in both cases well below the ten years average. Although in the former the figure is below that of the previous year, in the latter case the figure is in excess.

The proportion of deaths from diarrhoea is about the same as in 1935 and considerably less than the average for ten years.

11. NOTIFIABLE INFECTIOUS DISEASES.

No alteration to the list of notifiable infectious diseases has been made since Malaria was added in 1930.

The number of cases of infectious diseases notified during the year totalled 927 compared with 3,649 notified during 1936, the difference being mainly accounted for by the decrease of malaria cases.

Excluding the 751 malaria cases notified, the total of 176 may be compared with the totals for the previous five years of 149, 130, 125, 128, and 177 respectively.

The number of cases of malaria notified totalled 751 compared with a total of 3,500 for 1935.

There was a reduction in the notifications of blackwater fever from 14 for 1935 to 2 for 1936.

Tuberculosis was notified in 70 instances. Of these 55 were pulmonary cases and 15 cases were other than pulmonary.

The increase in the number of tuberculosis cases appears to indicate that either the disease is becoming more widespread or else more cases are coming up for treatment.

Notifications for the enteric group totalled 37, showing a decrease compared with the figure of 46 for the previous year.

Cerebrospinal meningitis occurred in almost epidemic proportions during he year, accounting for 21 notifications. This is the largest number of notifications for this disease recorded for the Municipality during the past 14 years.

Tropical typhus was recorded in eight instances among Europeans.

An increase in the number of diphtheria cases was reported from four during 1935 to seven during 1936.

Seven cases of plague from within the Municipality were recorded.

Five cases of relapsing fever and three cases of anthrax, all among natives, were notified.

Eight cases of erysipelas were recorded but only four instances of puerperal sepsis were notified.

Leprosy, malta fever, and encephalitis lethargica accounted for 2, 1, and 1 notifications respectively compared with 0, 0, and 1 for the previous year.

INFECTIOUS DISEASES NOTIFIED.

			White.	Indian.	Goan.	Native.	Somali.	Total.
Malaria			32	506	_	213	_	751
Anthrax				-		3	-	3
Blackwater fever				2	_	-	_	2
Cerebrospinal meningitis .			2	7	-	12	-	21
			_	- 6	1	_	_	7
1 11/1 1 11				1		-	_	1
F : 1			1	7			_	8
			_		1	1	-	2
			_		-	1	-	1
701				_		7	-	7
n I amin				4		-	-	4
			_		_	5		. 5
m : linham			8					8
			2	5	4	41	3	55
abdomen				1	-	3	-	4
snine				1	-	1	-	2
ioints				3	_	2		5
,, joints			_		-	3	-	3
disseminated					_	1	_	1
-22		***	5	12	-	20	-	37
Typhoid fever Total	-	-	50	555	6	313	3	927

SEASONAL INCIDENCE OF INFECTIOUS DISEASES NOTIFIED.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Malaria	37	78	114	48	111	175	57	36	22	34	13	26	751
Anthrax	-	-	1	-		1	-	-	-	-	-	1	3
Blackwater fever		_	1	-		1	-	-	-	-	-	-	2
Cerebrospinal meningitis	1	-	. 1	-	-	1	4	3	2	2	3	4	21
Diphtheria	_	_	1	-	1	3	1	1	-	-	-	-	7
Encephalitis lethargica	_	-	_	_	_		-	-	-	-	1		1
Erysipelas	1	-	2	-	1	-	2	1	-	1	-	-	8
Leprosy	1	-	-	1		-	-		-	-	-	-	2
Malta fever	_	_				1	-	-	-	-	-	-	1
Plague	-	-	1	1	-	-	-	-	5	-		-	7
Puerperal sepsis	_	1	2	_		-	-	1	-	-	-	-	4
Relapsing fever	1	100			1	-	miner.	-	2	-	1	-	5
Tropical typhus	-	2	2	200	1		-	1	1	-	1	-	3
Tuberculosis, pulm	6	6	5	8	6	3	2	6	3	3	3	4	55
" abdomen			1			-	-	-	2	1	-		4
,, spine	_	-	1	-	_		-	-	1	_			2
" joints	1	-		1	-	-	-	-	2	1	-	-	5
,, adenitis	-	-	1	1	-	1	-	1	-	-		-	3
,, disseminated	1 1	2.3			-	-	-	-	-	-			1
Typhoid fever	2	2	6	1	5	3	7	2	3	3	1	2	37
Total	51	89	139	61	126	188	73	52	43	45	23	37	927

INCIDENCE AND DEATH RATES FOR NOTIFIABLE INFECTIOUS DISEASES.

			No. of cases.		No. of leaths.		Incidence per 1,000 opulation.	Deaths per 1,00 population
Malaria			751		32		15.027	 0.640
Anthrax		***	3				0.060	 -
Blackwater fever	111	***	2	475	2		0.040	 0.040
Cerebrospinal me	ningitis		21		16		0.420	 0.320
TO 1 1 1			7		2		0.140	 0.040
	argica		1				0.020	
Erysipelas .			8		4		0.160	 0.080
T			2			***	0.040	 -
35 14 6			1				0.020	 -
Plague		***	7	115	5		0.140	 0.100
Puerperal sepsis		***	4		1		0.080	 0.020
			5	444			0.100	 -
m : 1 + 1 - 1			8		-		0.160	 _
m 1 -1-:			70		16		1.400	 0.320
Typhoid fever			37		7		0.740	 0.140

CON	APAR	COMPARISON OF NOTIFICATIONS	OF NO	TIFIC.	AT10.	NS OF	INFE	INFECTIOUS	JS DE	DISEASES	S FOR	14	YEARS		
		1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Plague	:	1	23	8	43	20	26	A.	112	51	7	1	1	I	7
Malaria	:	Z	Notifiable Februa	Febru	ry,	1930.			684	419	826	1071	2102	3500	751
Tuberculosis	::	23	19	44	47	4+	19	48	50	54	52	26	20	38	20
Enteric fever group	:	151	1.2	1.5	28	29	128	27	56	23	31	24	35	46	37
Tropical typhus	:	3	9	7	cı	3	2	4	9	1.1	+	10	1	3	œ
Anthrax	:	29	9	5	3	10	8	3	9	7	12	23	cı	3	6
Cerebrospinal meningitis	gittis	18	6	×	1	91	18	9	19	7	3	+	+	14	12
Puerperal sepsis	:	1	4	1	1	3	œ	91	10	9	01	13	5	00	4
Leprosy		+	+	6	14	9	20	I	+	+	I	3	1	1	12
Relapsing fever	:	2	20	46	27	6	+	6	3	3	1	+	2	1	ın
Ophthalmia neonatorum	rum	1	1	1	1	1	1	1	I	C1	1	-	01	-	1
Blackwater fever	**	No	Notifiable November	Noven	ber,	1928.	+	1	10	61	61	4	14	14	2
Diphtheria	:	1	9	I	10	4	7	+	4	01	IO	10	4	4	7
Scarlet fever		1	1	1	1	1	I	1	I	1	1	1	1	1	1
Malta fever	:	3	10	es	es	10	1	1	1	1	1	I	1	1	1
Beri-beri	:	1	1	CI	1	-	1	1	1	1	1	1	I	1	1
Erysipelas	:	1	3	-	-	1	1	61	24	1	1	cı	9	1	00
Smallpox	:	1	-	1	1	9	3	1	1	1	1	1	1	.	1
Trypanosomiasis		1	1	1	I	-	1	61	1	+	1	CI	1	1	1
Acute ant. poliomyelitis	elitis	1	-	1	1	1	1	1	1	.01	1	1	I	1	1
Encephalitis lethargica	ica	-	1	1	1	-	1	1	1	I	71	1	ce	1	
Glanders	;	1	1	1	1	1	1	-	1	1	1	1	,	1	1
Rabies	:	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cholera	:	1	1	1	1	1	1	1	1	1	1	1	1	1	1
The state of the s	7 110 110		-		1	-	-	-	-				-		

12. INFECTIOUS AND COMMUNICABLE DISEASES.

Acute Anterior Poliomyelitis.

No case was reported during the year. Only three cases have been previously notified, one in 1934 and two in 1931.

Anthrax.

Three non-fatal cases were notified all among Natives. An average of five cases has occurred annually during the past 10 years.

BERI-BERI.

No case of this condition was noted during the year. Four previous cases have been notified, one in 1935, one in 1928 and two in 1925.

BLACKWATER FEVER.

There was a notable reduction in the notification for this disease, only two Asiatic cases being reported; both of these cases were fatal. Since this disease was made notifiable in 1928, 47 cases have occurred of which 14 were in 1935 and 14 in 1934.

CEREBROSPINAL MENINGITIS.

As in 1935, there was an increased incidence from this disease during the latter part of the year, 21 cases being notified, the second half of the year accounting for 18 of them spread fairly evenly over the months. The cases were divided between two Europeans, seven Asiatics and 12 Natives. The case mortality was high, the number of deaths totalling 13, comprising one European, two Indians and 13 natives. During 1935, 14 cases were notified whilst the ten years previous to this averaged nine cases annually.

CHICKENPOX, MEASLES, WHOOPING COUGH, MUMPS.

These non-notifiable conditions have been prevalent during the year. Measles and whooping cough had their greatest incidence during the early part of the year whilst chickenpox and mumps were more prevalent during the middle and latter part of the year.

Judging from admissions to hospital, the incidence of chickenpox and mumps was less than last year and the incidence of whooping cough and measles was largely increased.

Six deaths were recorded from measles comprising four Indians and two Natives. There were also six deaths from whooping cough, comprising two Europeans, one Goan and three Natives.

CHOLERA.

There is no record that this disease has occurred in Nairobi.

DIPHTHERIA.

There was an increase in the number of diphtheria notifications during 1396, seven cases being reported compared with four for the previous year. This is the largest number reported in any one year with the exception o 1932 when ten cases were notified. The average number of cases annually for the past 14 years has been four.

Of the seven cases notified this year all were Asiatics, six being Indian

and one Goan. Two of the Indian cases were fatal.

DYSENTERY.

This disease is not notifiable so no indication can be given as to its incidence, but judging from the number of deaths it may be assumed that the condition was not more prevalent than last year.

Three Indian and two Native deaths were recorded, compared with one Indian and five Native deaths which occurred during 1935.

ENCEPHALITIS LETHARGICA.

One non-fatal Indian case was recorded. Only seven cases have been previously reported, one in 1935, three in 1934, two in 1932 and one in 1931.

ENTERIC FEVER GROUP.

There was a decrease in the notifications for this condition, 37 cases being reported compared with 46 during 1935.

The 37 cases comprised five Europeans, 12 Indians and 20 Natives. Of these cases one European, two Indian and four Native had a fatal termination. The disease did not assume epidemic proportions but was evenly distributed throughout the year.

ERYSIPELAS.

There were eight cases of Erysipelas among one European and seven Indians. Four of the Indian cases were fatal.

GLANDERS, RABIES.

No case of either of these diseases have yet been reported in Nairobi.

LEPROSY.

Two cases were reported coming from the Municipality, one being a Goan and the other a Native.

It should be noted that the Municipality was responsible for 1,378 patient days in hospital for this disease, compared with 1,767 patient days for 1935.

MALTA FEVER.

One native case was notified during the month of June. During the past 10 years, nine cases of malta fever have been reported. For the four years previous to this 14 cases occurred.

MALARIA.

Detailed information regarding the notification of this disease, together with other statistics are given under a separate section.

OPHTHALMIA NEONATORIUM.

No cases were reported during 1936.

PLAGUE.

Seven cases occurred during the year, one in March, one in April and five in September, all among Natives. Five of the cases were fatal. Numerous cases have occurred outside the Municipality, seven of these being brought within the area for treatment. The last epidemic of plague commenced in 1930 continuing to 1932. Since the last epidemic there has been only one case, occurring last year, until the seven cases this year.

PNEUMONIA.

This disease not being notifiable, it is only possible to judge the severity of the incidence in relation to deaths.

During 1936, pneumonia was responsible for 229 deaths and bronchopneumonia for 97 deaths, a total of 326, an increase over the total for 1935 when the number was 257.

The percentage of deaths from the pneumonias to total deaths during the year amounted to 40.9%—the highest for some years. The comparative figures for the five previous years were 36.9%, 39.5%, 34.1%, 36.1%, and 36.3%.

Of the 326 deaths from this condition 132 were in infants one year of age and under.

The annual death rate for pneumonias per thousand of population for all races during 1936 was 6.5 compared with 5.1 for 1935.

The death rate for pneumonia during the past 10 years has varied between 7.6 in 1928 to 3.7 in 1932, averaging 5.5

PUERPERAL SEPSIS.

Four Indian cases of puerperal sepsis were notified compared with eight reported during the previous year.

One of the four cases had a fatal termination.

This obviously does not represent a true picture of the incidence of this disease and suggests that it may be advisable to institute some scheme whereby the maternal condition during the puerperium can be more closely followed.

RELAPSING FEVER.

Five native cases scattered throughout the year were notified.

There were no fatal cases.

The incidence of this disease is still gradually diminishing.

SCARLET FEVER.

No cases were recorded. Only four previous cases have been notified, one each in 1935, 1931, 1930, and 1928.

SMALLPOX.

No case was notified during the year. The last cases occurred in 1928.

TROPICAL TYPHUS.

Eight European non-fatal cases were reported, compared with three during the previous year. An average of five cases have been notified annually during the past ten years.

Tuberculosis.

Tuberculosis of all forms was notified in 70 instances during the year; 55 of these referred to the pulmonary variety and the remaining 15 to forms other than pulmonary.

Of the pulmonary manifestation, two Europeans were notified with one death, five Indians with one death, four Goans with one death, 41 Natives with seven deaths, and three Somalis with no deaths.

Of the manifestations other than pulmonary, four cases of abdominal tuberculosis were reported among one Indian and three Natives, one case of each race being fatal. Tuberculosis of the spine occurred among one Indian and one Native, the latter being fatal. Of other parts affected, tuberculosis of the joints concerned three Indian and two Native cases, adenitis three Native cases, and disseminated tuberculosis one native case. Of the latter nine cases, three had a fatal termination.

The incidence rate for all forms of tuberculosis equalled 1.40 per thousand compared with 0.75 for 1935.

The death rate for this disease was 0.32 per thousand population compared with 0.57 for 1935.

13. ADMISSIONS TO HOSPITAL,

The following details are of patients resident in the Municipality admitted to each of the three institutions available, namely, European Hospital, Native Hospital, and Infectious Diseases Hospital for infectious or communicable diseases requiring segregation for the public welfare.

These institutions are conducted by the Government but the Municipality is responsible for patients from the Municipality to the extent of payment for treatment.

The admissions have continued to increase to a total of 524 during 1936 compared with 349 and 239 for 1935 and 1934 respectively. The number of patient days has increased to the considerable total of 9,765 compared with 7,882 and 7,910 for the two previous years.

The days in hospital for tuberculosis more than doubled themselves during 1936, the total being 4,046 compared with 1,989 for 1935, whilst the days in hospital for leprosy during the year showed a reduction from 1,767 to 1,378 compared with a similar period.

The days for measles also more than doubled themselves, being 1,478 compared with 627. Chickenpox was somewhat less prevalent, the number of days totalling 950 compared with 1,413 during 1935. Mumps showed a dimunition in days in hospital from 638 during the previous year to 454 during 1936, whilst whooping cough showed a large increase from 192 during 1935 to 513 during the present year.

The total days in hospital for these four diseases amounted to 3,395 compared with 2,870 for the previous year.

Admissions for typhoid fever accounted for 617 days, a total less than that of the previous year, whilst in the case of cerebrospinal meningitis, although the notifications were in considerable excess of last year, the days in hospital diminished from 169 to 79.

Other conditions that helped to swell the total of days in hospital include tropical typhus accounting for 73 days, relapsing fever for 55 days, anthrax for 46 days, and plague for 28 days.

The following tables give the details of admissions, patient days for the hospitals, the seasonal incidence of the diseases, and the races affected.

EUROPEAN HOSPITAL.

Month.		A	dmissio	ns. P	atient da	ys.
January	\	 	1		75	
February		 	3		38	
March		 	3		84	
April		 	-		96	
May		 	-		67	
June		 	-		1	
July		 	I		1	
August		 	1		5	
September	/	 	I	, , ,	9	
October		 	-		_	
November		 ***	1		13	
December		 			11	
То	otal	 	II		400	- Constitution

NATIVE HOSPITAL.

	Ası. Admis- sions.	Patient days.		Patient days.	Admissions.	Patient days.
January	 I	27	 5	56	 6	83
February	 2	19	 5.	50	 7	69
March	 1	30	 10	94	 11	124
April	 _	30	 8	71	 8	101
May	 _	30	 9	137	 - 9	168
June	 1		 5	80	 5	80
July	 _		 6	43	 6	43
August	 2	26	 11	115	 13	141
September	 I	- 15	 12	122	 13	137
October	 2	46	 2	8	 4	54
November	 = 1	19	 5	79	 5	98
December	 _	_	 7	66	 7	66
Total	 9	243	 85	921	 94	1164

INFECTIOUS DISEASES HOSPITAL.

		WH	ITE.		Ası	ASIATIC.			NATIVE. Admis- Patient			TOTAL.	
		Admis- sions.	Patier days.		Admis- sions.	Patier days.		Admis- sions.	Patient days.		Admis- sions.	Patient days.	
January		I	31		1	2		65	881		67	914	
February	T.	-	_			_		66	981		66	981	
March		-			_			23	615		23	615	
April		I	6		_	-		22	513		23	519	
May		_	5			-		31	596		31	601	
June					-	-		41	729		41	729	
July		I	26		-	-		32	727		33	753	
August		-	8		-	_		36	813		36	821	
Sept.		_	_		_	-		19	564		19	564	
October		_	/_		-	-		21	538		21	538	
Nov.			_		I	10		23	512		24	522	
Dec.		-	_	***		4		35	640		35	644	
Total		3	76		2	16		414	8109		419	8201	

MUNICIPAL PATIENTS—SUMMARY.

	$W_{\rm H}$	ITE.		Ası	ATIC.		NATIVE.			To	TAL.
	Admis-		nt	Admis- sions.				Patient days.		Admissions.	Patient days.
European	11	400		_	_	5	_			11	400
Native							85			94	1164
Inf. Diseas										419	8201
Total	14	476		11	259		499	9030		524	9765

MUNICIPAL PATIENT DAYS BY DISEASES.

			White.		Asiatic.		Native.	Total.
Tuberculosis			37		205		3,804	 4,046
Leprosy		* 4.4.	_		14		1,364	 1,378
Chickenpox			-				950	 950
Typhoid fever			311		33		273	 617
Mumps			-	2	-	***	454	 454
Measles			II		-		1,467	 1,478
Whooping coug	h				-		513	 513
C.S.M			35	222	_		44	 79
Anthrax			_		_		46	 46
Relapsing fever					-		55	 55
Puerperal fever			-		7			 7
Tropical typhus			73		-		_	 73
Scabies			_				14	 14
Plague		023					28	 28
Malta fever					_		18	 18
Erysipelas			9				-	 9
Total			476		259		9,030	 9,765

MUNICIPAL PATIENT DAYS BY MONTHS.

		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Tuberculosis		 207	258	359	301	413	380	397	442	410	294	311	274	4046
T		 155	118	93	90	93	90	93	93	99	146	160	148	1378
Chickenpox .		 87	26	73	63	55	59	134	172	87	83	35	76	950
Typhoid fev		 69	46	57	121	150	44	29	36	-	15	19	31	617
31		 12	37	29	28	34	104	35	54	15	36	23	47	454
35 1		 440	428	94	102	60	95	10	55	30	18	71	75	1478
	ough	 77	152	75	4	25	9	34	84	24		-	29	513
(1 (1 3))		 	_	_	_		2	41	20	2			14	- 59
		 _		3	-	-	5	24		-		-	14	46
	ver	 25	7	_	1	6	_	-	-	13	-	1	2	55
Puerperal fe		 	1	_	_	-	_	-	6	-		-	-	7
	hus	 	10	19	6	_	_	-	5	. 9		13	11	73
Carlina		 	5	5	-	-	4	_			-	-	-	14
D1		 _		7.	-	-	-	-	-	21			-	28
Malta fever		 	-	-	-		18	-		-	-	-	-	18
T		 	-	9	-	-	-	-	100			-	-	9
Total .		 1072	1088	823	716	836	810	797	967	710	592	633	721	9765

14. MALARIA.

Malaria was made notifiable in February, 1930. During 1936, 1,000 cases were notified, 902 being residents and 98 non-residents, compared with 3,949 notified during 1935 comprising 3,500 residents and 449 non-residents.

MALARIA NOTIFICATIONS.

Month.		Whit		IDENT. c. Nativ	e.Total.				SIDENT.		Total.
January		4	22	23	49		1	1	- 6	8	 57
February		6	54	31	91		6	_	4 -	10	 101
March	***	8	91	28	127		3	3	14	20	 147
April		2	41	9	52	***	3	2	4	9	 61
May		9	71	48	128		5	6	8	19	 147
June		10	111	80	201		3	3	1	. 7	 208
July		8	47	30	85		4	4	5	13	 98
August		2	29	16	47		-	1		1	 48
September		2	21	9	32		-	_	4	4	 36
October		4	29	10	43		4		_	4	 47
November		2	10	4	16		_	_	1	1	 17
December		2	18	11	31		1	1	_	2	 33
Total		59	544	299	902		30	21	47	98	 1000

LOCALLY ACQUIRED INFECTIONS.

Month.		White.	Asiatic.	Native.		Total.
January	 	I	 19	 17		37
February	 	5	 50	 23	***	78
March	 	5	 88	 21		114
April	 	I	 38	 9		48
May	 	5	 69	 37		111
une	 	4	 107	 64		175
July	 	5	 40	 12		57
August	 	I	 23	 12		36
September	 	-	 16	 6		22
October	 	2	 28	 4		34
November	 1	2	 10	 I		13
December	 	I	 18	 7		26
Total	 	32	 506	 213		751

The seasonal incidence of the locally acquired infections as shown by the above figures, takes an abrupt ascent from January to the peak in June, with a recession in April. From the June peak, the incidence drops rapidly to July and then less rapidly to November.

This peak of incidence follows two months after the peak of rainfall which occurred in April, the descent of incidence following the descent of the rainfall by a similar period to the end of the year.

INCIDENCE OF NOTIFIED MALARIA PER 1000 PERSONS.

Race.	1930	1931.	1932.	1933.	1934.	1935.	1936.
White Asiatic Native	23.88 30.51 10.84	13.19 10.87 6.73	13.81 7.41 24.20	8.18 15.36 29.66	17.40 77.32 24.81	26.58 101.50 59.92	10.53 34.00 10.67
All races	 16.62	8.81	17.64	22.60	40.57	69.93	18.04

The following tables present an analysis of the notified cases of malaria.

The diagnosis of all the notified cases, with the exception of those termed "Clinical" has been supported by laboratory evidence.

In the case of those classified as "Clinical," the laboratory finding was either absent or negative and evidence was produced that reasonable care had been taken in diagnosis.

Endeavour has been made since the inception of the notification of malaria to classify each case according to the location of the probable source of infection.

All the cases are placed in one of the following classes:

- I. NAIROBI. More or less conclusive evidence of infection taking place within the Municipality.
- 2. Ex Nairobi. Evidence of infection taking place outside the Municipality.
- 3. Doubtful. Cases not falling into the previous categories or in which no definite information could be obtained.

PROBABLE SOURCE OF INFECTION.

Source of	Number of Cases.											
Infection.	1930	1931	1932	1933	1934	1935	1936					
Nairobi	 107	79	243	865	1924	3281	751					
Ex-Nairobi	 84	133	214	184	169	219	151					
Doubtful	 598	208	379	22	9							
Total	 789	420	836	1071	2102	3500	902					

Source of		Percentage.											
Infection.	1930	1931	1932	1933	1934	1935	1936						
Nairobi	 13.6	18.8	29.1	80.8	91.5	93.7	83.3						
Ex-Nairobi	 10.6	31.7	25.6	17.2	8.1	6.3	16.7						
Doubtful	 75.8	49.5	45.3	2.0	0.4	0.0	0.0						
Total	 100.0	100.0	100.0	100.0	100.0	100.0	100.0						

The percentage of locally acquired infections is lower than during 1935 and the percentage of infections acquired outside the Municipality has increased accordingly.

The fact of there being no doubtful cases for the past two years indicates that more accurate information is being tendered on the notification forms.

Classification of the reported cases according to the type of infection and the probable source of infection is set out in the accompanying tables.

TYPE OF INFECTION AND PROBABLE SOURCE.

Probable source		Clinical.	Benign tertian.	Quartan.	Sub- tertian.	Double infections.	Total cases.
Nairobi		24	127	22	580	2	751
Ex-Nairobi		4	9	3	136	I	151
Doubtful							
Total resident	s	28	136	25	716	3	902
Total non-res	idents	3 -	5	4	87	I	98
Total		31	141	29	803	4	1000

PERCENTAGE OF TYPES OF INFECTIONS.

Type.	Nairobi.	Е	x-Nairo	bi.	Doubtfu	ıl.	Non- residents.	ercentage tal cases.
Clinical	 3.2		2.6		-		3.0	 3.1
Benign tertian	 16.9		5.9		_		5.1	 14.0
Quartan	 2.9		2.0		-		4.0	 2.9
Sub-tertian	 77.0		89.5		-		87.9	 80.0

As hitherto, sub-tertian infection represents the large proportion of the total cases. During 1936 this figure was 80.0% compared with 83.9% during 1935.

In the Nairobi infections, benign tertian and quartan showed an increase at the expense of sub-tertian, the percentages for 1936 being 16.9, 2.9, and 77.0 compared with 13.8, 2.0, and 83.0 for 1935. In the Ex-Nairobi infections, there were similar increases in benign tertian and quartan but subtertian reached the higher figure of 89.5.

In regard to non-residents, the percentage of benign tertian remained about stationary whilst the quartan was increased from 1.3% to 4.0%, and the sub-tertian decreased from 89.9% to 87.4%.

For comparative purposes and for the purpose of this report, the Municipality has been divided into 10 districts, the names of these districts being sufficient to indicate their position.

The following table indicates the number of cases of malaria notified from each of the undermentioned districts.

NAIROBI INFECTIONS.

				N	umber	of cas	es noti	fied.	
	District.		1930	1931	1932	1933	1934	1935	1936
Ι.	Upper Park	lands	 _	_	1	3 8	4	5	4
2.	Muthaiga		 3	_	I	8	2 I	17	I
3.	Westlands		 I	_	1	_	3	II	I
4.	Parklands		 10	4	9	31	47	56	17
5.	Forest Road		 II	6	14	133	266	458	141
6.	Racecourse	Road	 -	3	42	128	137	499	98
7.	Eastleigh		 2	-	8	30	36	108	II
8.	Kilimani		 2	- 2	10	19	12	24	2
9.	Hill		 5	2	23	63	113	100	19
o.	Commercial		 73	62	134	450	1285	2103	457
	Total	***	 107	79	243	865	1924	3381	751

As pointed out repeatedly, the worst areas affected are those contiguous to the Nairobi swamp.

It can only be hoped that one day steps will be taken to stop the irrigation on this area and thus alter it from an unhealthy area to a healthy one. The fact of this swamp being in the centre of the town and bordered by close settlement adds an increased inducement for its eradication.

Double infections were only recorded in four instances this year, an incidence of 0.4% of the notified cases. In each case the double infection was subtertian and benign tertian.

The mortality rate of the cases notified reached the high figure of 4.60% compared with 1.64% for 1935. During the month of July the mortality rate was 8.23%.

The mortality rates for the previous five years were 1.64%, 1.52%, 2.24%, 2.56%, and 2.62% respectively.

The death rate from malaria per thousand of population during 1936 was 0.64 compared with 1.15, 0.67, 0.50, 0.42, and 0.35 for the previous five years.

Two Asiatic deaths from blackwater fever were recorded during the year, one during the month of March and one during June.

Details of the deaths from malaria during the year will be found in the tables under:

DEATHS FROM MALARIA.

Month.		Number o	Number of deaths.		Percentage ortality rate
January		 49	 I	***	2.04
February		 91	 3		3.29
March		 127	 3		2.36
April		 52	 		0.00
May		 128	 4		3.12
June		 201	 6		2.98
July		 85	 7		8.23
August		 47	 3		6.38
September		 32	 2		6.25
October		 43	 I		2.32
November		 16	 1		6.25
December	***	 21	 1		4.76
Total		 902	 32		3.54
Non-resid	dent	 98	 14		14.28
Total	***	 1000	 46		4.60

DEATHS FROM MALARIA AND RATES FOR THE RACES FOR SEVEN YEARS.

		Nun	ber of d	eaths.			
Race.	1930	1931	1932	1933	1934	1935	1936
White	 I	-	_	I	I	_	-
Asiatic	 12	12	10	6	18	II	9
Native	 26	5	10	17	13	47	23
All races	 39	17	20	24	32	58	32

			Ra	te per 1,	000.			
Race.		1930	1931	1932	1933	1934	1935	1936
White		0.22	_	_	0.18	0.18	_	
Asiatic	***	1.09	0.76	0.66	0.39	1.19	0.66	0.56
Native		0.81	0.18	0.37	0.63	0.45	1.67	0.82
All races		0.82	0.35	0.42	0.50	0.67	1.15	0.64

DEATHS FROM MALARIA AND RATES FOR 18 YEARS.

Year.			Number of deaths.	of	1	Death rate per 1,000
1919			47			
1920			37			_
1921			22			_
1922			29			_
1923			28			_
1924			32			_
1925			19			_
1926	***		130			_
1927			25			1.1
1928	***		27			0.60
1929			27			0.56
1930			39			0.82
1931			17		,	0.35
1932			20			0.42
1933			24			0.50
1934			32		***	0.67
1935	***		58			1.15
1936		447	32			0.64

15. ANTI-MALARIAL WORK.

As a routine the whole length of the concrete anti-malarial canals as well as newly constructed drains were inspected at frequent intervals, cleaning and repairing taking place when and where necessary.

The Gethathuru River on the northern boundary of the town was straightened and cleared from the Municipal boundary at Limuru Road as far as Fort Hall Road.

The Mathari River was given attention from its entry into the Municipality at Marlborough Estate to near its junction with the Getathuru River by the Mathari quarries. Work is still proceeding with this stream.

The stream entering the town at Spring Valley Estate and joining with the Mathari River at Fort Hall Road was also given attention in respect of straightening and clearing.

The stream originating at Upper Hill Estate, crossing the Ngong Road and joining the Ngong River near the quarries necessitated a considerable amount of work in straightening and keeping the banks clear.

The Ngong River itself towards the quarries had to be dealt with on several occasions on account of the nuisance caused by sullage water being discharged into this stream.

Endeavour was made to define the banks of the Nairobi River as it passes through the Nairobi Swamp but the character of the ground rendered this difficult, however, the course of this stream was straightened and the banks cleared from Race Course Road to Eastleigh.

The work on all these streams was rendered more difficult by the small amount of water passing along them due to the low rainfall, in a great many instances pooling taking place.

During the year a total of 9,320 gallons of oil mixture was used in the endeavour to control breeding places of mosquitoes.

The practice instituted last year of supplying fluid for spraying in order to kill adult mosquitoes was continued, a total of 400 gallons of pyrethrum fluid being issued.

The lorry used in connection with anti-malarial work travelled 9,180 miles, mention should be made that its work included the removal of 112 tons of by-products from the abattoir as well as the cartage of 120 tons of old iron, etc., from the commercial area for dumping in the quarries.

Next year it is hoped to re-organise this work by the appointment of a malaria officer, trained searchers and the institution of the necessary laboratory. At the present time the Entomological Department of the Government is carrying out the survey and laboratory work for the municipal area.

16. RODENT DESTRUCTION.

Routine rat trapping was carried out as in former years, the rat gang consisting of six boys working under the direction of the sanitary inspectors.

The Railway Administration provides its own gang which operates on railway premises and land.

The number of rats destroyed by the Municipal gang totalled 25,337 compared with 18,529 killed during 1935.

The Railway gang accounted for 7,522 rats compared with 6,418 for the previous year.

The total number of rats destroyed namely 32,859 constitutes a record. Twenty-one rats were sent to the laboratory for examination only one

being found positive to B. pestis.

The following table refers to rats trapped and takes no account of the numbers destroyed by poison.

RATS TRAPPED.

Month.			Municipal gang.		Railway gang.		Total.
January		 	1,687		412		2,099
February		 	1,751		334		2,085
March		 	1,899		313		2,212
April		 	1,876		413		2,289
May		 	1,999		747		2,746
June		 	2,023		741		2,764
July		 	2,352		946		3,298
August		 	1,967	***	790		2,757
Septembe	er	 	2,337		831		3,168
October		 	2,508		835		3,343
Novembe	r	 	2,507		533		3,040
Decembe	r	 	2,431		627	ę	3,058
Tot	al	 	25,337	***	7,522		32,859

17. SANITATION.

CONSERVANCY.

The method of night soil collection by the single bucket system and the method of disposal by trenching remain unchanged from previous years, as was the method of transport by ox-drawn vehicles.

The daily number of buckets conserved totalled 3,138 compared with 3,263 during 1935—the reduction being accounted for by premises connected to the sewer and the conversion of latrines into water closets.

New and existing premises to the extent of 58 were connected to the sewerage system with a total of 179 water closets.

Excluding septic tanks and pits, there is now a total of 1,386 water closets in use connected with the sewers.

New septic tanks have been installed in 47 instances making a total of 483 in the Municipality.

Two conserving tanks in connection with septic tanks on land not capable of dealing with the effluent have been installed, increasing the total to eleven.

Two septic pits were permitted where the soil was suitable.

SEWERS.

Additions to the sewerage system included 400 feet of 6" stoneware sewer laid to serve the Railway Godown Sites and also 550 feet of 15 x 12 concrete sewer laid in River Road.

Further sewers were under construction at the end of the year in the Duke Street area.

REFUSE COLLECTION.

Owing to pressure of work the motor freighter was augmented by the tractor and trailer, in addition to ox-drawn carts for the removal of refuse.

As it was found that the destructor was becoming incapable of dealing with the amount of refuse to be destroyed, an extra cell was in process of being added at the end of the year.

During the alterations to the destructor, refuse was disposed of by tipping on the destructor site.

18. SANITARY INSPECTIONS.

Details of the work performed by the inspectorial staff of the public health department will be found in the summary which follows.

One inspector was away $7\frac{1}{2}$ months on overseas leave and that, combined with the unsatisfactory allowance granted to the staff for locomotion purposes, reduced the amount of work performed to a considerable extent.

During the year 7,164 premises were inspected for nuisances compared with 7,906 for 1935 and 881 defects were remedied compared with 1,241 remedied during the previous year.

The Bazaar Area Town Planning Scheme took a considerable amount of time, two inspectors being employed on this work at times, in order to complete the necessary inspections and reports.

SUMMARY OF WORKS PERF	ORME	D.	
Nuisances.			
Inspections made to:-			
Dwelling houses	211	***	2,208
Restaurant and eating houses	***		191
Laundries		***	82
Hotels and bars			123
Offensive trades		444	53
Stables and cattle sheds		,	18
Offices and trade premises			2,446
Open spaces, streets, etc			1,072
Public Buildings			114
Complaints registered and investigated			49
House to house inspections	***		41
Defects remedied:—			
Premises dirty or verminous			47
Dwellings without proper water supply			
Dwelling unfit for habitation			32
Insanitary dwellings demolished			1
Yards unpaved			8
Rat infestation			(
Latrine accommodation defective			120
Latrine accommodation inadequate			31
Drains, closed water carriage, choked			23
Drains, closed water carriage, defective			16
Drains, open, choked			37
Drains, open, defective			1.
Drains absent or inadequate	,		
Septic tanks or cesspits defective		,	
Septic tanks or cesspits choked			3
Waste water disposal defective or inadeq	uate		2
Soil or waste pipes choked			
Soil or waste pipes defective			
Accumulations of refuse			122
Dustbins absent or defective			110
Foodstuffs unprotected against rats			60
Sleeping in kitchens or food stores			
Mosquito breeding			7
Animals causing nuisance	447		
Miscellaneous			12
Defects remedied by verbal intimation			28
Defects remedied by written intimation			19
Defects remedied by statutory notices			40
Detects remember a,			
Sewerage Connections.			
Premises connected to sewer			58
Pail closets, etc., converted into water closets			4:
New closets installed to sewer	2.7		136
The state of the s		1 300	
ERECTION AND ALTERATION OF BUILDINGS.			
Plans dealt with	,		359
Inspections made			2,09
Completion certificates issued			. 24
Compression Commence			

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LICENSING OF TRADE PR	EMISES.	arien .				
Inspections made					 	905
Re-inspections made		***		***	 	266
Infectious Diseases.						
Cases investigated					 	77
Inspections made				***	 	169
Rooms disinfected				***	 ***	32
RATS.						
Number destroyed					 ****	25,337
NOTICES SERVED.						
Public Health Ordin	ance			,	 	121
Municipal By-laws :-	_					
Cleansing Plots,	By-lav	v 499			 	48
Inadequate latrii						35
Refuse receptacl	es and	remo	val		 	89
Drainage By-law						36
Others, By-laws					***	41
Closing Orders (Insa	anitary	Dwell	ings I	By-laws)	 ***	3
Prosecutions					 	25

19. FOOD CONTROL.

TRADE PREMISES SUBJECT TO SPECIAL CONTROL.

1929	1930	1931	1932	1933	1934	1935	1936
5	5	4	4	5	4	5	5
13	10	13	II	10	11	12	10
18	17	21	21	19	13	14	12
12	20	28	26	32	24	22	21
10	9	14	15	II.	8	8	8
21	23	21	24	20	19	24	20
5	5	6	7	8	6	8	6
	46	40	40	32	29	23	27
19	17	19	22	20	16	20	21
	5 13 18 12 10 21 5 34	5 5 13 10 18 17 12 20 10 9 21 23 5 5 34 46	5 5 4 13 10 13 18 17 21 12 20 28 10 9 14 21 23 21 5 5 6 34 46 40	5 5 4 4 13 10 13 11 18 17 21 21 12 20 28 26 10 9 14 15 21 23 21 24 5 5 6 7 34 46 40 40	5 5 4 4 5 13 10 13 11 10 18 17 21 21 19 12 20 28 26 32 10 9 14 15 11 21 23 21 24 20 5 5 6 7 8 34 46 40 40 32	5 5 4 4 5 4 13 10 13 11 10 11 18 17 21 21 19 13 12 20 28 26 32 24 10 9 14 15 11 8 21 23 21 24 20 19 5 5 6 7 8 6 34 46 40 40 32 29	5 5 4 4 5 4 5 13 10 13 11 10 11 12 18 17 21 21 19 13 14 12 20 28 26 32 24 22 10 9 14 15 11 8 8 21 23 21 24 20 19 24 5 5 6 7 8 6 8 34 46 40 40 32 29 23

These figures do not include stalls or shops in the Municipal Market.

They are also exclusive of premises in Pumwani, where there are 12

Butchers shops, nine Eating houses and three Vegetable dealers.

Of the 21 dairies and milk shops, eight are cow-keepers who retail milk comprising seven Europeans and one Somali, the remaining 13 premises are retailing milk depots, two being European and 11 Asiatic.

During the year 198 specimens of milk mainly from native sources were inspected, of these 47 were considered suitable for consumption whilst were considered adulterated and voluntarily surrendered.

INSPECTIONS TO PREMISES UNDER SPECIAL CONTROL.

X				30//	No. of inspections
	Aerated water fac	tories		 	479
	Bakeries			 	96
	Butchers' shops			 	241
	Dairies and Milk	shops		 	1,043
	Fishmongers			 	118
	Laundries and dh	obies		 	82
	Restaurants			 	3
	Eating houses			 	183
	Vegetable dealers			 	187
	Hotels and boardi		ses	 	123
	Markets			 	348
	Grocers			 	114

FOOD INSPECTED AND CONDEMNED.

			Inspected. lbs.		Condemned. 1bs.
Fish			 28,814		810
Fruit			 14,830		748
Provision	S		 32,860		830
Meat			 164,760		2,770
Vegetable	es		 20,500		_
Bottled g	goods,	etc.	 14,241		221
Milk, nat			 1,010 ga	als.	333 gals.

20. ABATTOIR.

The amount of work in connection with the inspection of meat at the abattoir is still progressively increasing. The total number of animals slaughtered during 1936 amounted to 54,984 exceeding the number slaughtered during 1935 by 4,323 or 8.5%. The increase during 1935 over the previous year was 7%.

The increase in the total number of animals killed was largely accounted for by the greater number of sheep and goats dealt with.

The number of oxen slaughtered during the year totalled 13,866, a figure very slightly in excess of last year's kill, of 13,813.

The number of grade oxen killed was 4,422 compared with 4,806 for 1935, whilst 9,444 native oxen were slaughtered compared with 9,007 for the previous year.

Fewer calves were sent to the abattoir, 496 compared with 537, although the percentage of condemnations decreased from 18.8% to 15.3%.

There was a large increase in the number of sheep slaughtered, the figure being 12,089 compared with 10,668—an increase of 13%.

The number of goats killed showed an increase of 111%, the number being 26,199 compared with 23,417 for 1935.

There was also an increase of nearly 5% in the number of pigs slaughtered against an increase of nearly 14% for the previous year, the figures being 2,334 compared with 2,226 during 1935.

Tables are shown recording the number of animals slaughtered during the year, together with the percentages of condemnations and the causes of condemnation. Tables are also included showing the condemnation rates for the types of oxen for a number of years.

The number of oxen condemned for all causes amounted to 3,024 or 21.8% of the total slaughtered compared with 19.8% for 1935.

2,549 or 18.3% of the total oxen slaughtered were condemned for cysticercus bovis compared with 2,389 and 17.2% for the previous year. Of the grade oxen 417 or 9.4% were condemned for this condition whilst the figure for native oxen was 2,132 or 22.5%.

Of the remainder, 157 were rejected for being in a fevered condition, 78 for dropsy, 64 for emaciation, 48 for redwater, 44 for jaundice, 35 for extensive bruising, 20 for septic conditions, 12 for tuberculosis, three for anaplasmosis, four for East Coast Fever, five for foot and mouth disease, two for rinderpest, one for pleuro-pneumonia.

Of the 76 calves condemned, 68 or 15.3% were rejected on account of cysticercus bovis, five for septic conditions and three for emaciation.

The principle cause for the rejection of the 295 sheep was caseous lymphadenitis in 149 instances followed by 45 rejections for being in a fevered condition, 34 for emaciation, 23 for septic conditions, 22 for jaundice, 17 for dropsy, four for extensive bruising and one for carcinoma.

The causes for the condemnation of the 1,138 goats were, 267 for being in a fevered condition, 239 for dropsy, 180 for heartwater, 161 for caseous lymphadenitis, 120 for emaciation, 80 for jaundice, 59 for septic conditions, 27 for pleuro-pneumonia, and five for extensive bruising.

Only 57 or 2.4% of the pigs slaughtered were condemned, the causes were, 31 for jaundice, 10 for being fevered, seven for septic conditions, three for tuberculosis, two for cysticercus cellulosae, two for extensive bruising and one each for carcinoma and diffused haemorrhage.

The estimated total weight of meat condemned amounted to 1,294,962 lbs., being somewhat in excess of the total for the previous year, namely 1,206,629 lbs.

INSPECTIONS.

1936.			Number of carcasses Inspected. Condemned.			ed.	Percentage of carcasses condemned
Oxen-	-Grade	4,422		657		14.85	
	Native	9,444		2,367		25.06	
		-	13,866		3,024		21.80
Calves			496		76		15.32
Sheep			12,089		295		2.44
Goats			26,199		1,138		4.34
Pigs	***		2,334		57		2.44
	Total		54,984		4,590		8.34

ORGANS CONDEMNED APART FROM CARCASSES.

Hearts	 		5,906	
Heads	 	***	4,844	
Tongues	 		4,735	
Kidneys	 ***		9,765	
Livers	 		22,355	
Lungs	 		30,169	
Spleens	 		5,571	
Stomachs	 		5,620	
Intestines	 	***	4,854	
Others	 		47	
Total	 		93,866	

ESTIMATED TOTAL WEIGHT OF MEAT CONDEMNED.

Beef	 		1,177,881
Veal	 		7,734
Mutton	 		23,336
Goat	 	***	72,341
Pork	 		13,670
Total	 		1,294,962

CONDITIONS NECESSITATING CONDEMNATIONS.

		- 0	xen —					
		Grade.	Native.	Calves.	Sheep.	Goats.	Pigs.	Total.
Anaplasmosis		1	2			_	_	3
Bruising		31	4	_	4	5	2	46
Carcinoma			_	-	1		1	2
Cysticercus bovis		417	2,132	68	-		-	2,617
Creations - allulane	***	-		_	_	_	2	2
Tittered because here			-			-	1	1
Dropsy		29	49		. 17	239	-	334
Emaciation		43	21	3	34	120	-	221
East Coast fever		_	4	-		_		4
Fevered condition		81	76		45	267	10	479
Foot and Mouth disease		5	_		_	_	-	5
Heartwater		-	_	_	_	180	_	180
Jaundice		24	20		22	80	31	177
Lymphadenitis		-			149	161	-	310
Lipoma		1	_		_			1
Moribund		_	1	_	_		_	1
Pleuro-pneumonia			1	-	-	27	-	28
Pyaemia		_	_	2	_		_	2
Rinderpest		-	2			-	-	2
Redwater		6	42				-	48
Septic condition		14	5	3	23	57	7	109
Septic pneumonia					_	2	_	2
Septicaemia		_	1		-		_	1
Tuberculosis		5	7		-	-	3	15
Total		657	2,367	76	295	1,138	57	4,590

OXEN SLAUGHTERED AND CONDEMNED FOR ALL CAUSES.

Year.		No. killed.	Grade No. cond.	% cond		No. killed.	Native No. cond.	% cond.		No. killed.	Total No. cond.	% cond.
1927		5,634	232	4.1		5,178	335	6.4		10,812	567	5.2
1928	***	4,907	290	5.9		6,827	480	7.0		11,734	770	6.5
1929		4,151	252	6.0		7,617	762	10.0		11,768	1,014	8.6
1930		4,214	313	7.4		7,243	738	10.1		11,457	1,051	9.1
1931		4,306	471	10.9		9,375	1,318	14.0		13,681	1,789	13.0
1932	***	3,054	363	11.8	***	11,044	1,757	15.9		14,098	2,120	15.0
1933		2,924	399	13.6		12,968	2,625	20.2	***	15,892	3,024	19.3
1934	de	4,531	664	14.6		10,264	2,230	21.7		14,795	2.894	19.5
1935	***	4,806	682	14.1		9,007	2,066	22.9		13,813	2,748	19.8
1936	444	4,422	657	14.8	***	9,444	2,367	25.0		13,866	3,024	21.8

OXEN SLAUGHTERED AND CONDEMNED FOR "MEASLES."

Year,		No. killed.	Grade No. cond.	% cond.	No. killed.	Native No. cond.	% cond.	No. killed.	Total No. cond.	% cond.
1927		5,634	_		 5,178			 10,812	490	4.5
1928		4,907	_	_	 6,827	-	-	 11,734	740	6.3
1929		4,151	_		 7,617		_	 11,768	975	8.2
1930		4.214	277	6.5	 7,243	683	9.4	 11,457	960	8.3
1931	die.	4,306	388	9.0	 9,375	1,227	13.0	 13,681	1,615	11.8
1932	***	3,054	321	10.5	 11,044	1,568	14.1	 14,098	1,889	13.3
1933	***	2,924	326	11.1	 12,968	2,158	16.6	 15,892	2,484	15.6
1934	***	4,531	600	13.2	 10,264	1,820	17.7	 14,795	2,420	16.3
1935		4.806	495	10.2	 9,007	1,894	21.0	 13,813	2,389	17.2
1936		4,422	417	9.4	 9,444	2,132	22.5	 13,866	2,549	18.3

REPORT OF CHILD WELFARE, ANTE-NATAL, AND VENEREAL CLINICS, DISPENSARIES, AND HOME VISITS.

By Evelyn F. Hartley, M.B., Ch.B.(Edin.),

Medical Officer in Charge.

On January 1st, 1936, a complete staff of three Health Visitors was appointed by the Municipal Council to continue the work of the native clinics, namely:—Pumwani, Pangani and the K.U.R. Landhies. On June 1st a fourth Health Visitor was appointed to inaugurate the work of the new Indian Clinic. There has been a steady increase in the attendances of both women and children at the clinics apparently due to the fact that each Health Visitor can devote all her time to the families in her particular location. There has been an attempt to reduce the dispensary numbers as the work of the clinic is primarily for ante-natal and child welfare purposes including V.D. treatment. In all the clinics special attention is paid to the home visiting.

PUMWANI CLINIC.

The work of this clinic has been carried on throughout the year by Mrs. E. Dugmore. The number of child welfare attendances has risen considerably and there has been comparatively little sickness. In the location in particular, the Health Visitor is often faced with the problem

of chronic bed-ridden cases, discharged from Hospital, who reside in Pumwani and who are unfit for repatriation and these all come under the care of the clinic. The ante-natal cases are sent to the clinic held weekly at the Lady Grigg African Maternity Home. By this arrangement the abnormal cases are more easily admitted for treatment. The attendances at the V.D. clinics are higher than in the other locations—this being the oldest settled area.

In 1935, of 320 patients resident in Pumwani, 63 completed their full course of injections. In 1936 of 260 resident cases, 97 completed their course and of 305 casual attendances (i.e. non-residents) 33 completed their course which, for natives, is a high percentage. The Home Visiting is done by the Health Visitor, one Ayah and two male dressers.

PANGANI AND THE N.M.H. CLINICS.

From January 1st the work of this clinic was carried on by Miss J. Smith. In anticipation of the removal of the village in March the Pangani clinic was transferred to the N.M. Housing. A large building was allocated to the Health Department by the Municipality until such time as work on the new clinic should be completed. Miss Smith continued to visit Pangani so as not to lose touch with the residents, many of whom brought their children to the N.M.H. clinic, while a few went to Pumwani. In a few weeks the attendances at the new clinic far exceeded those at Pangani, because in the past the residents of the N.M. Housing considered both Pangani and Pumwani clinics too distant to attend.

The number of attendances at the Child Welfare and V.D. clinics is rapidly approaching that of Pumwani, and the Ante-hatal cases are sent to the weekly clinic at the Lady Grigg African Maternity Home. Miss Smith has only one ayah at present but a male dresser is sent over from Pumwani twice weekly.

K.U.R. LANDIES CLINIC.

Miss B. Pearson has carried on the work of this clinic throughout the year. A weekly ante-natal clinic is held here as the Maternity Hospital is too far for the women to attend. The attendance at the Child Welfare and V.D. clinics was good, but the population of the Landhies is a moving one—the women and children constantly coming or going to Kisumu thus the cases cannot be followed up. Many women bring their children in from Kikuyu, stop a few days in the location and then return to the reserve.

The Landhies is so grossly over-crowded that there is a great deal of sickness among the children and the infant mortality is high. Dysentery, whooping cough, measles and broncho-pneumonia are prevalent and there have been three cases of cerebrospinal meningitis sent to the Native Civil Hospital during the year. The yaws attendances are high, mostly among the women who come from Kikuyu. Miss Pearson is helped in the clinic and home visiting by two ayahs, and, by the courtesy of the General Manager K.U.R. & H., the Railway lend a boy to assist in the cleaning of the building.

THE INDIAN CLINIC.

The building was erected by the Council in the grounds of the Indian Maternity Home and was officially opened by Gladys, Lady Delamere, the Deputy Mayor, on April 7th. The work was inaugurated by Mrs. Gibb on

tst June, and she is continuing in charge pending the acquisition of a suitably qualified Indian Health Visitor. The work here is confined entirely to Ante-natal care and the weighing and supervising of infants and children. Weekly ante-natal and child welfare clinics are held and a great deal of the Health Visitor's time has been spent in home visiting. It is only possible for a small part of the very large Asiatic district to be covered by one Health Visitor who was assisted by a Goanese ayah trained in the Lady Grigg Indian Maternity Home.

There have been no V.D. clinics held and the only dispensary work done has been for the women and children actually attending the clinic. This has been arranged so as not to interfere with the private practice of the many Indian doctors in the town.

The following tables indicate the work performed at the various clinics and also make comparisons with the work of the previous years.

CHILD WELFARE CLINICS.

	CHILD	WELFARE	CLINICS.		
	Pumwani.	Pangani & N.M.H.	K.U.R. Landies.	Indian.	Total.
Clinics held Attendances	49 7,980	49 6,088	53 8,413	31 2,719	182 25,202
	ANT	E-NATAL C	LINICS.		
		rican ity Hosp. K	L.U.R.		

V.D. CLINICS.

Landies.

1,595

52

and Pangani.

1,636

57

Clinics held

Attendances

Total.

140

4,017

Indian.

31

786

...

		Syphilis at	tendances.	Yaws atte	endances.	
		New cases.	Old cases.	New cases.	Old cases.	Total attendances
Pumwani:	Women	256	2,500	97	415	3,268
	Children	17	77	118	363	575
1 - 7	Total	273	2,577	215	778	3,843
Pangani &	N.M.H.					
	Women	204	1,132	62	471	1,869
	Children	15	88	96	282	481
	Total	219	1,220	158	753	2,350
K.U.R. La	ndhies:					
	Women	185	911	54	235	1,385
	Children	111	230	137	427	905
	Total	296	1,141	191	662	2,290

DISPENSARIES.

			Attend	dances.			
		Pumwani.	Pangani & N.M.H.		Indian.	Total.	
Women	***	 2,678	2,265	5,817	731	11,491	
Children		 4,736	3,847	15,599	1,849	26,031	
Total		 7,414	6,112	21,416	2,580	37,522	

VISITS BY HEALTH VISITORS AND NATIVE STAFF.

Pumwani		 4,092		
Pangani	& N.M.H.	 3,339		
K.U.R. I	Landhies	 4,248		
Indian		 853	Health Visitors	3,385
			Native Staff	9,147
Total		 12,532		

COMPARISON OF ATTENDANCES AND VISITS.

	1932	1933	1934	1935	1936
Child Welfare clinics	7,923	11,448	11,698	11,385	25,190
Venereal Disease clinics	4,219	3,432	3,967	6,277	8,703
Dispensaries	23,316	19,861	29,066	36,258	38,058
Ante-natal clinics	1,626	1,958	2,198	2,711	3,955
Total attendances	37,084	36,699	46,929	56,631	75,906
Home Visits	3,646	4,373	7,738	12,146	12,532



