

Annual report of the Medical Officer of Health / Nairobi Municipality.

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Kenya.

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TOWN HALL,
NAIROBI.

March 12th, 1941.

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

Your Worship and 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 1940, as required by "The Local Government (Municipalities) Ordinance, 1928" "The Medical Officers of Health Rules, 1929, "Sec. 2 (12) d."

I am, Your Worship and Gentlemen,
Your obedient servant,

H.W. TILLING,
M.R.C.S. (Eng.) L.R.C.P. (Lond)
D.P.H. (Lond).

MEDICAL OFFICER OF HEALTH.

1. GENERAL

For reasons of economy necessary under the existing war conditions, the report for this year will not be printed and will be in the nature of a summary and not comparable to the detailed reports of previous years.

As far as this report is concerned, the year 1940 was noteworthy for a severe malaria epidemic and greatly increased work on account of A.R.P. duties and on account of the presence of the Military Forces more especially in connection with the abattoir.

This work had to be carried out with a very depleted staff not only due to the normal shortage of personnel, but to two members of the inspectorial staff being on service.

During December a conference was held in Nairobi under the auspices of The Conference of East African Governors, to discuss steps to be taken in connection with an outbreak of Yellow Fever in the Sudan. Representatives were present from The Belgian Congo, The Union of South Africa, The Sudan, Northern Rhodesia, Nyasaland, Tanganyika, Uganda, Kenya and the Yellow Fever Research Institute, under the Chairmanship of Brigadier A.J. Orenstein, C.M.G., Director of Medical Services, East African Forces.

The Conference recommended as far as Nairobi is concerned that steps should be taken to control the breeding of *Aedes aegypti* the vector of yellow fever.

These control measures present a very formidable task and will entail considerable expenditure and additions to staff during the coming year

TO THE HONORABLE
MEMBERS OF THE
LEGISLATIVE ASSEMBLY
March 19th, 1941

Respectfully,
The Honorable the Mayor and Councilors
of the Municipality of Montreal

Your Worship and Gentlemen:

I have the honor to present to you herewith my annual report on the sanitary administration, vital statistics and other matters of a health nature, of the Municipality of Montreal for the year 1940, as required by "The Local Government (Municipalities) Ordinance, 1938" and "The Medical Officers of Health Rules, 1937" Sec. 2 (1st. d.).

I am, Your Worship and Gentlemen,
Your obedient servant,

M. J. TILLY
M.B.C.S. (Eng.) M.C.P. (Lond)
M.B.C.S. (Lond) M.D. (Lond)
MEDICAL OFFICER OF HEALTH.

GENERAL

For reasons of economy necessary under the existing war conditions, the report for this year will not be printed and will be in the nature of a summary and not comparable to the detailed reports of previous years.

As far as this report is concerned, the year 1940 was noteworthy for a severe winter epidemic and relatively increased work on account of A.R.P. duties and on account of the presence of the military forces more especially in connection with the epidemic.

This work had to be carried out with a very limited staff, not only due to the normal shortage of personnel but to the transfer of the hospital staff being on service.

During December a conference was held in Montreal under the auspices of the Committee of East African Governors, to discuss steps to be taken in connection with an outbreak of Yellow Fever in the Sudan. Representatives were present from the Belgian Congo, the Union of South Africa, the Sudan, Rhodesia, Nyasaland, Tanganyika, Uganda, Kenya and the Yellow Fever Research Institute, under the chairmanship of Professor A. D. Cunningham, O.M.S., Director of Medical Services, East African Region.

The Conference recommended as far as possible to ensure that steps should be taken to control the breeding of Aedes aegypti the vector of Yellow Fever.

These control measures present a very formidable task and will entail considerable expenditure and action to carry out during the coming year.

Rainfall during the year amounted to 40.83 inches, slightly in excess of the average of 35.53 inches. The increase was due to good long rains, the other three seasons being below the average.

Owing to disturbance due to war conditions, no estimate of population has been made in this report, therefore no rates have been calculated.

No legislation of a health nature was enacted during the year.

There has been a slight decrease in the number of births notified compared with the previous year, this being mainly due to the families of Asians and Africans leaving the town.

There was an increase in the total number of deaths from 1,005 to 1,280, the increase among residents amounted to 122 and among non-residents to 153. There is evidence to support the belief that more Africans are coming in to the town from the reserves for treatment.

The ratio of infant deaths to total deaths during 1940 decreased from 28.2% to 24.4%.

It will be noted that deaths from the pneumonias have again decreased, the decrease being undoubtedly due to modern treatment.

It would appear that the incidence of tuberculosis is increasing, deaths under this heading showed an increase from 32 to 45 during the year.

Deaths from dysentery, cancer and blackwater fever registered increases during 1940 compared with the previous year.

Although the deaths of infants under one year of age showed a slight increase, the percentage of total deaths decreased by 4.2%.

A malaria epidemic of large proportions occurred during the year, 6,720 resident cases being notified as suffering from this condition. The epidemic commenced in March and continued throughout the year having its peak in July. The epidemic commenced from infection coming from Ruaraka district and rapidly spread over our borders. Sixty two deaths were registered from this disease making a case mortality of notified cases of 0.92%.

No cases of human plague occurred within the Municipality during the year.

The number of rats destroyed by the Municipal gang totalled 28,454, this constant rat destruction together with the constant improvement in the sanitary condition of the town is without doubt assisting to minimize the risk of plague breaking out within the Municipality.

The total number of animals slaughtered at the Abattoir during 1940 reached the high figure of 114,260, being 36,523 more than last year.

Rainfall during the year amounted to 40.85 inches slightly in excess of the average of 38.85 inches. The increase was due to high rains, the other years being below the average.

Due to disturbance due to war conditions, no estimate of population has been made in this report. The population has been estimated.

No legislation of a health nature was enacted during the year.

There has been a slight decrease in the number of deaths notified compared with the previous year, this being mainly due to the failure of Alabama to report deaths.

There was an increase in the total number of deaths from 1,005 to 1,350, the increase among residents amounted to 125 and among non-residents to 125. There is evidence to suggest that more Alabama are coming in to the town from the reserves for treatment.

The ratio of infant deaths to total deaths during 1940 decreased from 22.2% to 21.4%.

It will be noted that during the year the deaths have again decreased, the decrease being undoubtedly due to modern treatment.

It would appear that the incidence of tuberculosis is decreasing. In 1939 deaths among tuberculous patients amounted to 25 during the year.

Deaths from diphtheria, scarlet fever and blackwater fever registered in 1940 compared with the previous year.

Although the death of infants under one year of age showed a slight increase, the percentage of total deaths decreased by 4.3%.

A notable epidemic of large proportions occurred during the year, 8,750 residents being notified as suffering from this condition. The epidemic commenced in March and continued throughout the year having its peak in July. The epidemic spread from inland to coastal and from coastal to inland areas. The epidemic spread over the whole of the district and rapidly spread over the whole of the district. Sixty-two deaths were reported from this disease during a case mortality of notified cases of 0.2%.

The cases of human plague occurred within the limits of the town during the year. The number of rats destroyed by the municipal body totalled 28,421. This totalled the destruction of rats with the constant intention of the sanitary committee to keep the town as free from rats as possible. The risk of plague spreading was within the limits of the town.

The total number of animals slaughtered at the Abattoir during 1940 reached the high figure of 124,200, being 55,500 more than last year.

The presence of the Military Forces has caused the normally overworked condition of the plant to be increased to a state of acute congestion. Whilst every effort has been made to cope with the unusual situation with some success, it is regarded as urgent that extensions be made to the Abattoir in order to deal more efficiently with the normal increasing amount of work.

The expenditure of the Public Health Department for the year amounted to £13,097, an increase of £527. It will be noted that the heading of administration showed a decrease of £755, whereas Infectious Diseases Prevention showed an increase of £1,122, mostly on account of Notification fees, oil and native wages.

Once again attention is directed to the unsatisfactory method of collection and disposal of nightsoil. It is sincerely to be hoped that early consideration will be given to the betterment of the existing systems, more especially to disposal as the state of the trenching grounds is highly undesirable.

It is further recommended as urgent the necessity of dealing with the sludge at the sewage disposal works in such a manner that will obviate the present serious nuisance caused by the existing system of trenching.

A praiseworthy amount of work in connection with sewerage was carried out during the year in spite of war conditions, 15,511 feet of sewers being laid, thus bringing the total length of sewers in Nairobi to 105,841 feet or over 20 miles.

Once more it is necessary to stress the understaffed position of the Health Department, and it is hoped that Council will now realize that it is impossible to conduct the work efficiently unless attention is paid to this point, more especially when extra duties are being added such as A.R.P. work, the presence of the Military Forces, and now Aedes Control.

2. RAINFALL

The rainfall for Nairobi during the year amounted to 40.83 inches compared with the average over 33 years of 35.53 inches. This increase over the average occurred solely during the long rains which registered 27.60 inches compared with the average of 17.94 inches, the remaining three seasons being all below the average.

The days of rain showed a decrease from 110 to 104, thus the average fall of rain per rainy day was in excess of the average.

Month	RAINFALL		DAYS OF RAIN	
	1940	Average 33 years	1940	Average 33 years
January	1.09	1.48	6	5
February	1.52	2.25	5	5
March	7.23	4.78	13	10
April	11.40	8.03	19	18
May	8.97	5.13	18	15
June	2.08	1.74	5	8
July	0.69	0.66	5	5
August	0.44	0.97	3	6
September	0.23	1.10	5	6
October	1.98	2.12	9	8
November	3.36	4.58	11	14
December	1.84	2.69	5	10
Annual	40.83	35.53	104	110

SEASONAL RAINFALL			
Season	1940	Average 33 years	
Short dry season (January-February)	2.61	3.73	
Long rains (March, April, May)	27.60	17.94	
Long dry season (June-September)	3.44	4.47	
Short rains (October, November, December)	7.18	9.39	
Annual	40.83	35.53	

DAYS WITHOUT RAIN		
Days without rain	Number of occasions	Month
28	1	July-August
22	1	September-October
19	1	June
17	1	December - January
16	1	August
12	1	February
11	1	January-February
10	2	November-December

ANNUAL RAINFALL							
Year	Inches	Year	Inches	Year	Inches	Year	Inches
1897	27.5	1908	27.90	1919	38.74	1930	58.88
1898	28.1	1909	29.02	1920	51.19	1931	39.58
1899	27.5	1910	25.64	1921	18.49	1932	39.85
1900	44.3	1911	41.49	1922	37.28	1933	22.68
1901	40.7	1912	56.01	1923	56.22	1934	23.12
1902	32.9	1913	31.04	1924	26.72	1935	31.24
1903	40.7	1914	42.18	1925	27.83	1936	30.87
1904	26.9	1915	28.88	1926	33.25	1937	52.85
1905	59.3	1916	43.59	1927	24.86	1938	28.16
1906	46.7	1917	51.44	1928	28.91	1939	24.46
1907	41.98	1918	23.05	1929	36.50	1940	40.83

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

DAYS OF RAIN									
AVERAGE									
1900									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510
511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530
531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570
571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590
591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970
971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000

Season for the year 1900 to 1901

3. POPULATION

The population of Nairobi as at December 31st, 1939 was estimated as under:-

Race			Population
European	6,800
Asian	17,700
African & Others	41,000
<u>Total</u>			<u>65,500</u>

This estimate was of necessity approximate only, but owing to disturbance due to war conditions it has been considered inadvisable to make even an approximate estimation of the population of Nairobi for 1940, as any figures given would be purely a guess and have no value whatever for statistical purposes. Consultation with the Statistical Department of the Government has confirmed this.

It was hoped that a census would be taken during 1941, but owing to prevailing conditions, this will not be held. The previous census was taken in 1931.

4. MARRIAGES

The following marriages were celebrated in Nairobi during 1940. The figures are not corrected for persons habitually resident in Nairobi. The corresponding number for 1939 was 149.

British	183
Goan	10
Seychellois	5
Dutch	4
Belgian	1
Greek	1
Native	1
Danish	2
	<u>207</u>

5. BIRTHS

"The Nairobi Municipality (Notification of Births) By-laws, 1933" have now been in operation for seven years, and the following table shows the results of notifications for 1940:-

It will be noted that the totals are slightly lower than last year, decreases occurring among Asians and Africans, whereas there is an increase for Europeans.

The reason for the decreases among Asians and Africans is probably due to the removal of the families of these races as a war precaution.

The population of the United States in 1950 was estimated at 150,000,000.

3. POPULATION
The population of the United States in 1950 was estimated at 150,000,000. This estimate was based on the 1950 Census of the United States, which showed a population of 150,000,000. The population of the United States in 1950 was estimated at 150,000,000.

It was noted that a census would be taken during 1950, but that the results would not be available until 1951. The population of the United States in 1950 was estimated at 150,000,000.

4. POPULATION
The population of the United States in 1950 was estimated at 150,000,000. This estimate was based on the 1950 Census of the United States, which showed a population of 150,000,000. The population of the United States in 1950 was estimated at 150,000,000.

Country	Population (1950)
United States	150,000,000
Canada	10,000,000
Great Britain	50,000,000
France	40,000,000
Germany	50,000,000
Italy	40,000,000
Japan	80,000,000
China	500,000,000
India	300,000,000
U.S.S.R.	150,000,000

3. POPULATION

The population of the United States in 1950 was estimated at 150,000,000. This estimate was based on the 1950 Census of the United States, which showed a population of 150,000,000. The population of the United States in 1950 was estimated at 150,000,000.

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NOTIFICATION OF BIRTHS

1940 RACE	RESIDENT			NON-RESIDENT			TOTAL		
	Births	Still-Births	Live Births	Births	Still-Births	Live Births	Births	Still-Births	Live Births
<u>EUROPEAN:</u>									
British	115	2	113	50	1	49	165	3	162
American	1	-	1	1	-	1	2	-	2
Belgian	1	-	1	-	-	-	1	-	1
Norwegian	-	-	-	1	-	1	1	-	1
Czechoslovakian	2	1	1	-	-	-	2	1	3
Icelandic	-	-	-	1	-	1	1	-	1
Russian	-	-	-	1	-	1	1	-	1
French	1	-	1	-	-	-	1	-	1
Italian	2	-	2	-	-	-	2	-	2
German	4	-	4	1	-	1	5	-	5
	126	3	123	55	1	54	181	4	177
<u>ASIAN:</u>									
Indian	416	9	407	13	1	12	429	10	419
Goan	81	2	79	3	-	3	84	2	82
	497	11	486	16	1	15	513	12	501
<u>AFRICAN & OTHER:</u>									
African	369	15	354	249	21	228	618	36	582
Nubian	1	-	1	-	-	-	1	-	1
Somali	1	-	1	1	-	1	2	-	2
Arab	4	-	4	-	-	-	4	-	4
Abyssinian	1	-	1	-	-	-	1	-	1
Seychellois	4	-	4	-	-	-	4	-	4
Mauritian	1	-	1	-	-	-	1	-	1
	381	15	366	250	21	229	631	36	595
All races	1004	29	975	321	23	298	1325	52	1273

MULTIPLE BIRTHS:

Multiple births were recorded in ten instances, seven among residents and three among non-residents.

Of residents, there were three cases of Indian twins, one of Goan twins, two of African twins and one of African triplets.

Of non-residents, twins were recorded in two instances among Africans and once with Europeans.

GENERAL INFORMATION									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

DETAILED INFORMATION									
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

STILLBIRTHS:

The following table gives particulars of stillbirths for the year among both residents and non-residents.

STILLBIRTHS

1940	RESIDENT			NON-RESIDENT		
	No. Births	No. Still-births	% to Births	No. Births	No. Still-births	% to Births
European	126	3	2.3%	55	1	1.8%
Asian	497	11	2.2%	16	1	6.2%
African & Other	381	15	3.9%	250	21	8.4%

NATURAL INCREASE

1940	No. of Births	No. Live Births	No. of Deaths	Natural Increase
European	126	123	62	61
Asian	497	486	195	291
African & Other	381	366	492	- 126
All races	1004	975	749	226

6. DEATHS

Statistics under this heading refer to residents of Nairobi including the prison population and Mathari Hospital. Figures have been corrected for outward but not for inward transfers.

The total number of deaths occurring in Nairobi during 1940 totalled 1,280, compared with 1,005 during 1939.

The number of deaths from all causes among persons stated to be normally resident in Nairobi was 749, compared with 627 during 1939, these comprise 62 Europeans, 195 Asians and 492 Africans and others.

Of the 749 resident deaths, 483 were of males and 266 of females.

Infants under one year of age accounted for 183 deaths or 24.4% of the total deaths.

1940		DEATHS BY RACE AND SEX										TOTAL
		White	Indian	Goan	African	Smalli	Arab	Seychellois	Nubian	Abyssinian	Mauritian	
RESIDENT	M	34	99	10	327	4	2	3	2	2	0	483
	F	28	85	1	147	2	0	2	0	0	1	266
Total		62	184	11	474	6	2	5	2	2	1	749
NON-RESIDENT	M	21	6	3	314	1	0	0	2	0	0	347
	F	16	2	0	163	2	0	0	1	0	0	184
Total		37	8	3	477	3	0	0	3	0	0	531
TOTAL		99	192	14	951	9	2	5	5	2	1	1280

CAUSES OF DEATH BY GROUPS

Group	No. deaths	% of total
1. Infectious and parasitic diseases	172	22.96
2. Cancer & other tumours	14	1.87
3. Diseases of nutrition etc.	27	3.61
4. Diseases of the blood	9	1.20
5. Chronic poisoning	-	-
6. Diseases of the nervous system	49	6.54
7. Diseases of the circulatory system	27	3.60
8. Diseases of the respiratory system	166	22.16
9. Diseases of the digestive system	70	9.35
10. Non-venereal diseases of the urinary system	20	2.67
11. Diseases of pregnancy	11	1.47
12. Diseases of the skin	-	-
13. Diseases of the bones	-	-
14. Congenital malformations	6	0.80
15. Diseases of early infancy	82	10.95
16. Old age	14	1.87
17. Deaths from violence	53	7.08
18. Ill defined diseases	29	3.87
Total	749	100.00

It will be noted that Group 1, Infectious and parasitic diseases, heads the list and Group 8, Diseases of the respiratory system comes second in importance instead of first as has been the custom for many years. This is without doubt due to modern treatment, especially of the pneumonias. Whilst the incidence of the pneumonias is not known, as it is not notifiable, deaths from this condition have decreased steadily in spite of increasing population as will be seen from a comparison of the number of deaths for the past five years which have been 326, 437, 365, 166 and 150 respectively.

The increase in deaths under Group 1 is accounted for by the large number of fatal cases of malaria due to the epidemic, there were 62 deaths recorded under this heading compared with 16 in the previous year.

An increase in the numbers of deaths from all types of tuberculosis is also noted from 32 during 1939 to 45 for the present year.

Fatal cases of dysentery showed an increase from 9 to 16, whilst typhoid fever registered a decrease from 12 to 9.

Increases were noted in connection with deaths from syphilis, septicaemia, blackwater fever, cancer, diabetes, Kikuyu disease, cerebral haemorrhage, insanity, diseases of early infancy and deaths from violence.

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DEATHS (Continued)

1940										
International cause of death										
	White	Indian	Goan	African	Somali	Arab	Seychellois	Nubian	Abyssinian	TOTAL
GROUP XI. DISEASES OF PREGNANCY:										
142. Ectopic gestation	-	1	-	1	-	-	-	-	-	2
145. Puerperal sepsis	-	2	-	1	-	-	-	-	-	3
146. Eclampsia	1	-	-	-	-	-	-	-	-	1
149. Ruptured uterus	-	2	-	-	-	-	-	-	-	2
150. Childbirth	-	-	-	3	-	-	-	-	-	3
GROUP XII. DISEASES OF THE SKIN:										
GROUP XIII. DISEASES OF THE BONES:										
GROUP XIV. CONGENITAL MALFORMATIONS:										
157. Spina bifida	1	-	-	1	-	-	-	-	-	2
Congenital heart disease	1	1	-	1	-	-	-	-	-	3
Congenital malformation	-	1	-	-	-	-	-	-	-	1
GROUP XV. DISEASES OF EARLY INFANCY:										
158. Marasmus	-	13	2	19	-	-	1	-	-	35
159. Prematurity	1	19	-	16	-	-	1	-	1	38
160. Injury at birth	-	-	-	2	-	-	-	-	-	2
161. Asphyxia neonatorum	1	-	1	4	-	-	-	-	-	6
Icterus neonatorum	-	1	-	-	-	-	-	-	-	1
GROUP XVI. OLD AGE:										
162. Senility	3	3	-	8	-	-	-	-	-	14
GROUP XVII. DEATHS FROM VIOLENCE:										
165. Suicide by hanging	-	-	-	1	-	-	-	-	-	1
167. Suicide by firearms	1	-	-	-	-	-	-	-	-	1
174. Homicide by cutting instruments	-	-	-	1	-	-	-	-	-	1
179. Accidental poisoning	-	1	-	-	-	-	-	-	-	1
180. Burns	-	4	-	2	-	-	-	-	1	7
182. Suffocation	1	-	-	-	-	-	-	-	-	1
183. Drowning	-	-	-	3	-	-	-	-	-	3
186. Road accident	5	3	-	11	-	-	-	-	-	19
189. Starvation	-	-	-	1	-	-	-	-	-	1
193. Electrocution	-	-	-	1	-	-	-	-	-	1
194. Accident	1	-	-	-	-	-	-	-	-	1
198. Judicial hanging	-	1	-	15	-	-	-	-	-	16
GROUP XVIII. ILL-DEFINED DISEASES:										
200. Heart failure	-	5	-	3	-	-	-	-	-	8
Natural causes	-	1	-	11	-	-	-	-	-	12
P.U.O.	-	1	-	3	-	-	-	1	-	5
Anorexia	-	-	-	1	-	-	-	-	-	1
Ascites	-	-	-	1	-	-	-	-	-	1
Unknown	-	-	-	2	-	-	-	-	-	2
TOTAL										
	62	184	11	474	6	2	5	2	2	1 749

7. INFANT MORTALITY

The total number of deaths in infants under one year of age during 1940 was 183 or 24.4% of the total deaths. The figures for the previous year were 177 and 28.2% respectively.

INFANT DEATHS

Race	Infant deaths	Total deaths	Percentage of total deaths
European	7	62	11.29
Asian	85	195	43.59
African & other	91	492	18.49
All races	183	749	24.43

INFANT MORTALITY RATES

Race	Live Births	Deaths	Per 1000 live births
European	123	7	56.9
Asian	486	85	174.8
African & other	366	91	248.6
All races	975	183	187.6

It will be noted that these rates follow those for last year very closely, the figures for 1940 showing a slight all-round increase, the European by 21.7, the Asian by 0.1, the African by 30.8, and all races by 7.1.

The combined rate for non-Europeans now stands at 206 compared with 194, 264, 324 and 479 for the four previous years.

The European rate for the past five years has been 56,35,90, 109 and 51 respectively.

INFANT MORTALITY RATES FOR FIVE YEARS

Year	European	Asian	African	All races
1936	51	561	480	458
1937	109	309	338	307
1938	90	262	266	249
1939	35	174	217	180
1940	56	174	248	187

The ages at which these infant deaths occurred are given in the following table:-

INFANT MORTALITY

The total number of deaths in infants under one year of age during 1940 was 185 or 24.1% of the total deaths. The figures for the previous year were 172 and 22.2% respectively.

INFANT DEATHS

Age	Total Deaths	Percentage of Total Deaths
Infants	185	24.1
Children 1-4 years	102	13.2
Children 5-9 years	88	11.4
All ages	775	100.0

INFANT MORTALITY RATE

Age	Rate per 1,000 live births
Infants	24.1
Children 1-4 years	13.2
Children 5-9 years	11.4
All ages	10.0

It will be noted that there is a slight increase in the infant mortality rate for 1940 over 1939. The figures for 1939 were 23.5 and 10.0 respectively. The figures for 1938 were 22.2 and 9.5 respectively.

The comparison of the infant mortality rate for 1940 with the rate for 1939 shows a slight increase in the infant mortality rate for 1940.

The figures for the infant mortality rate for 1940 are 24.1 and 10.0 respectively.

INFANT MORTALITY RATE FOR EACH YEAR

Year	Rate per 1,000 live births
1938	22.2
1939	23.5
1940	24.1

The figures for the infant mortality rate for 1940 are 24.1 and 10.0 respectively.

AGES OF INFANT DEATHS

1940											
AGE GROUP	White	Indian	Goan	African	Somali	Arab	Seychellois	Nubian	Abyssinian	Mauritian	TOTAL
Under 1 day	2	10	2	16	1	-	-	-	-	1	32
1-6 days	3	11	-	5	-	-	1	-	-	-	20
1 week	-	8	-	8	-	-	-	-	-	-	16
2 "	-	9	-	3	-	-	-	-	-	-	12
3 "	-	3	-	2	-	-	-	-	-	-	5
Under 1 month	5	41	2	34	1	-	1	-	-	1	85
1 month	1	8	1	9	-	-	-	1	-	-	20
2 "	-	9	1	3	-	-	-	-	-	-	13
3 "	-	3	-	5	-	-	-	-	-	-	8
4 "	-	3	-	2	1	-	-	-	-	-	6
5 "	-	2	-	6	-	-	-	-	-	-	8
6 "	1	6	-	4	1	-	-	-	-	-	12
7 "	-	1	-	6	-	-	-	-	-	-	7
8 "	-	3	-	4	-	-	-	-	-	-	7
9 "	-	5	-	7	-	-	1	-	-	-	13
10 "	-	-	-	3	-	-	-	-	-	-	3
11 "	-	-	-	1	-	-	-	-	-	-	1
Under 1 year	7	81	4	84	3	-	2	1	-	1	183

CAUSES OF INFANT DEATHS

1940										
	White	Indian	Goan	African	Somali	Nubian	Seychellois	Mauritian		TOTAL
Asphyxia neonatorum	1	-	1	5	-	-	-	-		7
Bronchitis	-	-	-	1	-	-	-	-		1
Broncho pneumonia	-	6	-	19	-	1	-	-		26
Cerebrospinal men.	-	1	-	-	-	-	-	-		1
Congenital heart dis.	1	-	-	1	-	-	-	-		2
Congenital malformation	-	1	-	-	-	-	-	-		1
Convulsions	1	4	-	-	-	-	-	-		5
Diarrhoea	1	9	-	8	-	-	-	-		18
Dysentery	-	2	-	-	-	-	-	-		2
Encephalitis letharg.	-	1	-	-	-	-	-	-		1
Erysipelas	-	1	-	-	-	-	-	-		1
Icterus neonatorum	-	1	-	-	-	-	-	-		1
Ill-defined	-	2	-	2	-	-	-	-		4
Injury at birth	-	4	-	2	-	-	-	-		6
Intestinal obstruction	-	-	-	1	-	-	-	-		1
Kikuyu disease	-	-	-	2	-	-	-	-		2
Malaria	-	3	-	2	1	-	-	-		6
Marasmus	-	13	1	12	-	-	1	-		27
Meningitis	-	1	1	1	-	-	-	-		3
Peritonitis	-	1	-	-	-	-	-	-		1
Pneumonia	-	9	1	7	1	-	-	-		18
Prematurity	1	17	-	14	-	-	1	1		34
Rickets	-	2	-	-	-	-	-	-		2

1940

	White	Indian	Goan	African	Somali	Nubian	Seychellois	Mauritian	TOTAL
Septicaemia	-	1	-	-	-	-	-	-	1
Spina bifida	1	-	-	1	-	-	-	-	2
Suffocation	1	-	-	-	-	-	-	-	1
Syphilis	-	1	-	6	1	-	-	-	8
Tetany	-	1	-	-	-	-	-	-	1
TOTAL	7	81	4	84	3	1	2	1	183

The pneumonias still head the list of causes of infant deaths, but the percentage of this cause to total infant deaths is still steadily decreasing, during 1940 it was 24.0% and during the four preceding years the figures were 33.8%, 33.1% and 44.9% respectively.

Deaths from prematurity increased from 22 to 34 compared with 1939, and deaths from marasmus also showed an increase, whilst deaths from diarrhoea decreased from 22 to 18.

8. NOTIFIABLE INFECTIOUS DISEASES

The number of cases of notifiable diseases notified during 1940 totalled 6916 compared with 743, 779, 1,121 and 927 during the four previous years.

The number of cases of locally acquired malaria notified during the year reached the large figure of 6,720, compared with 545, 564 and 942 for previous years, details of these figures will be found in another section of this report.

Excluding the 6,720 malaria cases, the total of 196 cases notified compares favourably with last year's total of 192.

Notifications for typhoid fever showed a marked decrease being 62 compared with 92 for 1939, whilst notifications for all forms of tuberculosis increased from 42 to 73.

Notifications for acute anterior poliomyelitis, diphtheria and erysipelas were similar to last year, namely, 1, 14 and 2 respectively.

Increases were noted in notifications for anthrax from 5 to 8, for blackwater fever from 3 to 11, encephalitis lethargica from 1 to 3 and puerperal sepsis from 3 to 5, whilst decreases were noted in the notification of cerebrospinal meningitis from 18 to 8, relapsing fever from 6 to 2 and tropical typhus from 5 to 2.

Five cases of scarlet fever were recorded, but no cases were reported of leprosy, Malta fever or ophthalmia neonatorum.

INFECTIOUS DISEASES NOTIFIED

Disease	White	Indian	Goan	African	Arab	Seychellais	Sudan	Chinese	TOTAL
Acute ant. poliomyelitis	1	-	-	-	-	-	-	-	1
Anthrax	-	-	-	8	-	-	-	-	8
Blackwater fever	1	6	1	1	-	1	-	1	11
Cerebrospinal meningitis	-	2	-	5	-	1	-	-	8
Diphtheria	4	8	-	2	-	-	-	-	14
Encephalitis lethargica	-	3	-	-	-	-	-	-	3
Erysipelas	1	1	-	-	-	-	-	-	2
Puerperal sepsis	-	3	1	1	-	-	-	-	5
Relapsing fever	-	-	-	2	-	-	-	-	2
Scarlet fever	5	-	-	-	-	-	-	-	5
Tropical typhus	2	-	-	-	-	-	-	-	2
Tuberculosis	2	11	-	58	1	-	1	-	73
Typhoid fever	13	18	1	30	-	-	-	-	62
TOTAL	29	52	3	107	1	2	1	1	196

SEASONAL INCIDENCE OF INFECTIOUS DISEASES NOTIFIED

DISEASE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Novr.	Decr.	TOTAL
Malaria	74	54	167	476	1263	796	1729	1247	617	150	83	64	6720
Acute anterior poliomyelitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Anthrax	1	1	-	1	1	-	-	1	2	-	-	1	8
Blackwater fever	-	1	-	2	2	-	3	2	1	-	-	-	11
Cerebrospinal meningitis	-	1	1	1	1	-	-	-	1	3	-	-	8
Diphtheria	5	3	1	2	-	1	-	2	-	-	-	-	14
Encephalitis lethargica	3	-	-	-	-	-	-	-	-	-	-	-	3
Erysipelas	-	-	-	-	-	1	-	1	-	-	-	-	2
Puerperal sepsis	-	2	-	1	-	2	-	-	-	-	-	-	5
Relapsing fever	-	-	1	1	-	-	-	-	-	-	-	-	2
Scarlet fever	4	-	-	-	1	-	-	-	-	-	-	-	5
Tropical typhus	1	-	-	-	-	-	1	-	-	-	-	-	2
Tuberculosis	8	5	5	5	7	5	4	8	5	9	6	6	73
Typhoid fever	3	10	4	8	3	6	5	2	2	10	6	3	62
TOTAL	100	77	179	497	1278	811	1742	1263	628	172	95	74	6916

MORTALITY RATES OF NOTIFIED CASES

Disease	No. of cases	No. of deaths	%
Malaria	6720	62	0.92
Acute anterior Poliomyelitis	1	-	-
Anthrax	8	1	12.50
Blackwater fever	11	3	27.27
Cerebrospinal meningitis	8	4	50.00
Diphtheria	14	2	14.28
Encephalitis lethargica	3	2	66.66
Erysipelas	2	1	50.00
Puerperal sepsis	5	3	60.00
Relapsing fever	2	-	-
Scarlet fever	5	-	-
Tropical typhus	2	-	-
Tuberculosis	73	45	61.64
Typhoid fever	62	9	14.51

9. INFECTIOUS AND COMMUNICABLE DISEASESACUTE ANTERIOR POLIOMYELITIS:

One European non-fatal case was reported during the year.

Only four cases have been recorded previously, two in 1931, one in 1934, and one in 1939.

ANTHRAX:

Eight African cases were recorded with one death. The average over the past 10 years has been four annually.

BERI-BERI: No cases were reported, although it is noted that 12 deaths occurred among Africans from Kikuyu disease.

BLACKWATER FEVER: The cases of blackwater fever notified increased from 3 to 11. These cases occurred among 7 Asians, 1 European, 1 African, 1 Seychellois and 1 Chinese. Two Indian and one Seychellois deaths were registered from this disease.

CEREBROSPINAL MENINGITIS: The incidence of this disease was lower than last year, only 8 cases being notified against 10 in 1939. These cases concerned 5 Africans, 2 Indians and 1 Seychellois. One Indian and three African cases had a fatal termination.

CHICKENPOX, MEASLES, WHOOPING COUGH, MUMPS: The incidence of these non-notifiable diseases was a little higher than in 1939, judging by admissions to hospital.

Chickenpox was more prevalent in the earlier and later months of the year and accounted for 688 patient days in hospital against 752 last year. Measles were present during the whole year with the exception of July, but more prevalent in the first and last quarters, this condition accounted for 961 days in hospital against 984 last year.

Whooping cough was only present during the latter half of the year and was responsible for 337 days in hospital against 67 in 1939.

Mumps occurred during the first half of the year and also during October accounting for 394 days in hospital compared

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with 163 during 1939.

One African death from whooping cough and one from mumps were registered during the year.

CHOLERA: No case of cholera has yet been recorded from Nairobi.

DIPHTHERIA: A total of 14 cases were reported among 4 Europeans, 8 Indians, 1 African and 1 Seychellois. One Indian and one Seychellois case were fatal. The majority of these cases occurred during the first four months of the year, but the disease did not appear in epidemic form.

DYSENTERY: There was a decided increase in the number of deaths from dysentery during 1940, there being 16 comprising 1 European, 5 Indian and 10 African compared with 9 last year. It may be assumed that the incidence of this disease was very much higher than the ratio of the deaths.

ENCEPHALITIS LETHARGICA: Three Indian cases were reported during the month of January with two deaths. Last year one fatal Indian case was recorded.

ENTERIC FEVER GROUP: There were fewer cases of this condition reported during the year, 62 against 92 last year. The cases occurred among 13 Europeans, 19 Asians and 30 Africans and were fairly evenly spread out over the year, it did not appear in epidemic form.

Nine fatal cases were noted between 1 European, 2 Indians and 6 Africans.

ERYSIPELAS: Similar to last year, only two cases of this disease were reported.

GLANDERS, RABIES: Neither of these diseases has yet been recorded in Nairobi.

LEPROSY: No new case of this disease was notified from Nairobi, the patient days in hospital for this condition total 782, compared with 1,136 for the previous year.

MALTA FEVER: No cases were reported, there were four cases during 1939.

MALARIA: Information regarding this infection will be found in a separate section of this report.

OPHTHALMIA NEONATORUM: No cases were reported, this is not a common condition. One case was notified in 1939, the case previous to that being in 1935.

PLAGUE: No case of human plague occurred in the Municipality during 1940.

There were 10 cases during 1938 and 25 cases during 1937.

During December three cases were brought into the town from outlying districts for treatment.

The improvement in the sanitary condition of the town is certainly lessening the risk of plague appearing in epidemic form.

PNEUMONIA: During 1940, pneumonia was responsible for 82 deaths and Bronchopneumonia for 68, making a total of 150 deaths from the pneumonias.

114 of the deaths were of Africans and others, 34 of Asians and 2 of Europeans.

As has been already remarked there has been a steady and continuous decrease in the number of deaths from the pneumonias during recent years, undoubtedly due to the effect of modern treatment.

Although we are not in a position to give the incidence of this disease, even in spite of increased population, the deaths have decreased in a marked degree. During the past five years the number of deaths have been 326, 437, 365, 166 and 150 respectively.

of the 150 deaths from the pneumonias, 44 were in infants under one year of age.

PUERPERAL SEPSIS: Only five cases were reported during the year comprising 4 Asians and 1 African. There were two Asian and one African deaths.

It is obvious that this does not represent a true picture of the situation, and many more cases must exist without being notified.

RELAPSING FEVER: Only two non-fatal African cases were notified. This disease appears to be becoming less prevalent in Nairobi. In 1938 there were 38 cases, and in 1937 there were 10 cases.

SCARLET FEVER: This is not a common disease in Nairobi, 5 European cases were notified during the year, they were not fatal.

Previous cases occurred in 1931, 1935 and 1937.

TROPICAL TYPHUS: Two European cases were reported compared with an average of six for the previous five years.

It is extremely doubtful whether all the cases of this condition are being notified.

TUBERCULOSIS: Tuberculosis of all forms was responsible for 75 notifications during the year, this shows a decided increase over the 42 notifications last year. There were 45 deaths from this disease of which 35 were from the pulmonary variety.

The notifications concerned 2 Europeans, 11 Asians and 60 Africans whilst the deaths concerned 10 Asians and 35 Africans.

This disease is without doubt becoming more prevalent, and judging by the number of deaths of non-residents, more Africans are coming into Nairobi for treatment.

10. MALARIA

Nairobi suffered from a malaria epidemic of considerable proportion during 1940.

The total number of malaria cases notified reached the figure of 8,324 of which 631 were Europeans, 2,869 were Asians and 4,824 were Africans.

The number of resident cases totalling 6,720 comprised 421 Europeans, 2,723 Asians and 3,576 Natives. Of these resident cases, it is estimated that 6,281 acquired their infection locally. These numbers of course do not represent the total cases occurring as many sufferers do not seek medical aid and thus are not notified.

of the deaths were of Africans and others, 54 of
Africans and 2 of Europeans.

It has been already pointed out that there has been a steady and
continuous increase in the number of deaths from the pneumonia
during recent years, undoubtedly due to the effect of modern
treatment.

Although we are not in a position to give the statistics
of this disease, even in spite of increased notification, the
deaths were increased in a marked degree. During the last five
years the number of deaths have been 55, 45, 55, 55 and 100
respectively.

Of the 100 deaths from the pneumonia, 44 were in infants
under the year of age.

PREVIOUS YEARS: Only five cases were reported during the
year commencing 1st January and 1st February. There were two African and
one African deaths.

It is obvious that this does not represent a true picture
of the situation, and many more cases must exist without being
notified.

PREVIOUS YEARS: Only two non-fatal African cases were notified.
The disease appears to be becoming less prevalent in Malindi.
In 1920 there were 25 cases, and in 1921 there were 10 cases.

PREVIOUS YEARS: This is not a common disease in Malindi. 5
deaths were notified during the year, but were not fatal.

Previous cases occurred in 1921, 1922 and 1923.

PREVIOUS YEARS: Two European cases were reported compared with
an average of six for the previous five years.

It is extremely doubtful whether all the cases of this
condition are being notified.

PREVIOUS YEARS: Notification of all forms was responsible for
the increase in cases during the year, this shows a marked increase
over the 12 notifications last year. There were 45 deaths from
this disease of which 35 were from the pneumonia variety.

The notification concerned 2 Europeans, 11 Africans and
20 Africans whilst the deaths concerned 10 Africans and 35 Africans.

This disease is without doubt becoming more prevalent,
and owing to the number of deaths of non-residents, and
Africans are coming into Malindi for treatment.

10. MALARIA

Malinda suffered from a malarial epidemic of considerable
proportions during 1920.

The total number of malarial cases notified reached the
figure of 1,500 of which 501 were Europeans, 500 were Africans
and 500 were Africans.

The number of fatal cases totalled 6, 251 respectively.
The Europeans, 5, 100 Africans and 5, 100 Africans. In cases
fatal cases, it is estimated that 5, 100 respectively. These
figures are, however, of course of great importance.
The 1,500 cases reported in many instances do not cover actual
and some are not notified.

The epidemic which commenced from infection coming from the Ruaraka district outside the northern boundary of the Municipality, commenced in March, increased sharply to May, decreased slightly in June, but increased to a maximum in July, and then decreased gradually towards the end of the year.

The months of greatest intensity were May, July and August with the maximum in July.

Rainfall during March, April and May was heavy, but the remainder of the year was dry.

Deaths from malaria during the year totalled 62, making a case mortality of notified cases of 0.92%.

Energetic measures were adopted to deal with the epidemic which measures will be continued and great assistance was rendered by the Military Authorities in seconding staff for this purpose.

The activities of this section are controlled by the Anti-Malaria Committee which includes representatives of the Military and Air Force, Government Medical Department, Public Works Department, and Nairobi District Council.

The following tables give detailed information regarding the notified cases of malaria:-

MALARIA NOTIFICATION

	RESIDENT				NON-RESIDENT			
	Euro- pean	Asian	African	TOTAL	Euro- pean	Asian	African	TOTAL
January	5	41	28	74	3	2	36	41 115
February	7	20	27	54	3	5	55	63 117
March	13	52	102	167	13	4	109	126 293
April	42	147	287	476	47	12	167	226 702
May	69	570	624	1263	49	20	258	327 1590
June	23	308	465	796	14	28	135	177 973
July	74	729	926	1729	24	30	165	219 1948
August	117	483	647	1247	44	27	167	238 1485
September	58	252	307	617	5	9	95	109 726
October	8	55	87	150	3	3	41	47 197
November	2	32	49	83	-	2	12	14 97
December	3	34	27	64	5	4	8	17 81
TOTAL	421	2723	3576	6720	210	146	1248	1604 8324

LOCALLY ACQUIRED INFECTIONS

	European	Asian	African	TOTAL	Rainfall
January	1	34	12	47	1.09
February	4	18	21	43	1.52
March	12	49	95	156	7.23
April	30	141	232	403	11.40
May	59	543	611	1213	8.97
June	20	271	447	738	2.08
July	68	646	899	1613	0.69
August	104	448	629	1181	0.44
September	54	228	302	584	0.23
October	6	54	87	147	1.98
November	2	22	46	70	3.36
December	3	26	27	56	1.84
	363	2280	3638	6281	40.83

The epidemic which commenced in the district of the ... from the district outside the ... principally, commenced in March, ... and then advanced gradually towards the end of the year.

The number of persons infected ... with the epidemic in 1918 ...

... from ... the year totalled 82, ... of notified cases of 0.52.

... measures were adopted to deal with the epidemic which ... and great assistance was rendered by the Military authorities in ... this purpose.

The statistics of this section are controlled by the ... which include representatives of the Military and Air Force, Government Medical Department, ... and ...

... five detailed ...

Month	1918		1919		1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934		1935		1936		1937		1938		1939		1940		1941		1942		1943		1944		1945		1946		1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360	
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11. RODENT DESTRUCTION

Routine rat trapping has continued to be carried out, the rat gang consists of five boys working under the direction of the sanitary inspectors within the Commercial area.

The Railway Administration continues to provide its own rat gang which operates on railway premises and land. This gang accounted for 6,371 rats during the year, compared with 9,418 for 1939.

The number of rats accounted for by the Municipal gang totalled 28,454, compared with 29,250 last year.

A percentage of the catch is examined daily for B. pestis, but during the year none were found to be positive.

RATS DESTROYED

Month	Municipal gang Number of rats	Railway gang Number of rats	TOTAL
January	2,477	735	3,212
February	2,473	622	3,095
March	2,338	510	2,848
April	2,537	531	3,068
May	2,619	599	3,218
June	3,244	412	3,656
July	2,540	391	2,931
August	2,656	551	3,207
September	2,217	546	2,763
October	2,466	499	2,965
November	1,679	447	2,126
December	2,108	528	2,636
TOTAL	28,454	6,371	34,825

12. NATIVE BURIALS

The native pagan burial ground situated off the road to the civil aerodrome continues to function satisfactorily, the first portion having become filled a further acre has been enclosed, 678 interments have been made in this ground during the year.

A new native hearse has been put into use and functioned without trouble during the year. There were 975 African and other burials during 1940 taxing the existing transport to the utmost and it may be necessary, in the near future, to acquire another vehicle to cope with the work and relieve the present hearse during repair or overhaul periods.

The hearse used in connection with these burials was requisitioned a total of 721 times, 346 times to the Native Hospital, 90 to No. 1 General Hospital, 86 to Infectious Diseases Hospital, 79 to Mortuary, 46 to Pumwani Maternity Hospital, 40 to Mathari Hospital and 34 times to the Prison Hospital.

13. WATER SUPPLY

Nairobi continues to obtain its water supply from the Kikuyu Springs and the Ruiru River in the proportion of 67.3% and 32.7% respectively. Routine examinations of the water show that the quality is maintained in a satisfactory state.

The amount of water delivered to Nairobi and districts during the year totalled 608,820,000 gallons, compared with 580,298,260 gallons delivered last year, the average daily delivery being 1,688,000 gallons, compared with 1,466,412 gallons daily during 1939.

14. AMBULANCE

The Municipal ambulance which is housed at the Fire Station was called out on 92 occasions, 62 calls being in connection with European patients, 17 with Asian patients, 8 calls were in connection with Air Raids and on 5 occasions it was standing by.

The distance travelled totalled 840 miles.

15. POUND

During the year, the following animals were impounded in the Pound situated in the Municipal Landhies:-

Oxen	701	Mules	7
Dogs	88	Donkeys	5
Sheep	43	Monkeys	2
Goats	38	Rabbit	1

16. NEW BUILDINGS

The number of plans submitted during the year totalled 381. Somewhat less than the number for 1939, the decrease being explained by the disturbed war conditions prevailing.

A large number of these plans required further scrutiny following amendments. Inspections in connection with works in progress numbered 2,298, compared with 2,487 for 1939.

A total of 248 completion certificates were issued.

17. CONSERVANCY

Nightsoil collection by the single bucket system and disposal by trenching still prevails.

Previous reports have stressed the undesirability of both these systems and it is sincerely to be hoped that at all events, trenching will be replaced by tipping into the sewer in the near future.

The average daily number of buckets conserved totalled 3,394, compared with an average of 3,524 for last year.

New and existing premises to the extent of 71 were connected to the sewerage system, making a total of 379 water closets. There are now 2,257 water closets in use connected to the sewers.

New septic tanks have been installed in 69 instances, making a total of 746 in the Municipality.

The amount of water delivered to the district during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949. The average daily delivery was 1,150 gallons, compared with 1,060 gallons during 1949.

WATER DELIVERY

The Municipal Engineer's office is housed at the City Hall, 100 North 1st Street, 1st floor. The office is in contact with the various departments of the city, including the Police Department, Fire Department, and Public Works Department.

The district involved totaled 640 miles.

WATER DELIVERY

During the year, the following water was pumped in the district:

Month	Water Pumped (Gallons)
January	45,000
February	40,000
March	42,000
April	48,000
May	50,000
June	55,000
July	60,000
August	65,000
September	70,000
October	75,000
November	80,000
December	85,000

WATER DELIVERY

The amount of water delivered during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949. The average daily delivery was 1,150 gallons, compared with 1,060 gallons during 1949.

A large number of these plans required further investigation. The amount of water delivered during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949.

A total of 248 completed certificates were issued.

WATER DELIVERY

Significant collection of the single water system and disposal of the water.

Previous reports have stated the water supply in both the city and the district is adequate. The amount of water delivered during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949.

The average daily delivery of water was 1,150 gallons, compared with 1,060 gallons during 1949.

The amount of water delivered during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949. The average daily delivery was 1,150 gallons, compared with 1,060 gallons during 1949.

The amount of water delivered during the year 1950 was 420,000 gallons, compared with 390,000 gallons in 1949. The average daily delivery was 1,150 gallons, compared with 1,060 gallons during 1949.

Seven conserving tanks in connection with septic tanks on land not capable of dealing with the effluent have been installed bringing the total to 28, whilst 9 septic pits were permitted, the nature of the ground being suitable to warrant their use.

18. SEWERS

A considerable amount of work in connection with sewerage was carried out during the year in spite of war conditions, 15,511 feet of sewers being laid, compared with 13,415 feet laid during 1939. Of this total, 1,988 feet were laid in connection with Zone B scheme and 9,260 feet in connection with the Group Hospital sewer, the remaining 4,263 feet being distributed as follows:-

Cross Road	2,003 feet
Near Reata Road	867 "
Near Latema Road	267 "
Khimji Road	296 "
Swamp extension	205 "
Quarry Road Housing	625 "

At the end of 1940, the total length of sewers in Nairobi amounted to 105,841 feet, over 20 miles.

19. CARCASSES REMOVED

The following animals died within the Municipality and their carcasses were removed by special service and destroyed:-

Mules	6	Donkey	1
Oxen	5	Pony	1
Dogs	5	Cat	1
Horses	2		

20. SANITARY INSPECTIONS

Owing to being called on service, sickness and leave, 59 inspector months work was performed out of a maximum 72.

The understaffing of the Health Department has been continually stressed, but during 1940 on account of extra duties mainly in connection with A.R.P. and the presence of the military forces, the work has increased to such an extent that it is essential to augment the inspectorial staff without delay.

It should be noted that two sanitary inspectors are now on service and their positions have not been filled.

This augmentation is all the more necessary in view of the Aedes control which will have to be performed in the coming year.

During the year 7,034 premises were inspected for nuisances, compared with 9,393 last year.

The number of inspections in connection with plans totalled 2,298 - a number somewhat less than in 1939.

Seven conserving tanks in connection with septic tanks on land not capable of dealing with the effluent have been installed increasing the total to 25, whilst 9 septic pits were refilled, the nature of the ground being suitable for permanent their use.

18. SEWERS

A considerable amount of work in connection with sewers was carried out during the year in spite of war conditions. 18,911 feet of sewers being laid, compared with 13,413 feet laid during 1939. Of this total, 1,368 feet were laid in connection with Zone B scheme and 8,380 feet in connection with the Group Hospital sewer, the remaining 9,163 feet being distributed as follows:-

2,005 feet	Gross Road
887	West Bank Road
887	West Bank Road
887	West Bank Road
887	West Bank Road
887	West Bank Road
887	West Bank Road
887	West Bank Road

At the end of 1940, the total length of sewers in the district amounted to 103,841 feet, over 23 miles.

19. CARCASSES REMOVED

The following animals killed within the Municipality and their carcasses were removed by special service and destroyed:-

1	Donkey	8	Mules
1	Goat	8	Oxen
1	Cat	8	Pigs
		2	Horses

20. SANITARY INSPECTIONS

Owing to being called on service, sickness and leave, 59 inspectors of sanitary work were posted out of a strength of 113.

The undersisting of the Health Department has been continually stretched, but during 1940 an account of extra duties mainly in connection with A.R.P. and the presence of the military forces, the work has increased to such an extent that it is essential to employ an inspectorial staff without delay.

It should be noted that two sanitary inspectors are now on service and their positions have not been filled.

It is suggested that all the more necessary in view of the houses which will have to be repaired in the coming year.

During the year 7,034 premises were inspected for nuisances, compared with 6,365 last year.

The number of inspections in connection with plans totaled 2,225 - a number somewhat less than in 1939.

1,241 defects were remedied by intimation or notices, compared with 1,192 remedied last year.

Slightly fewer notices were served during 1940, 406 against 418 during 1939.

SUMMARY OF WORKS PERFORMED

NUISANCES:

Inspections made to:-	
Dwelling houses	2,388
Restaurants and eating houses	301
Laundries	82
Hotels and bars	74
Offensive trades	60
Stables and cattle sheds	24
Offices and trade premises	1,934
Open spaces, streets etc.	1,480
Public buildings	158
House to house inspections	167
Complaints investigated	81
Defects remedied:-	
Premises dirty	117
Dwellings unfit	29
Yards unpaved	12
Rat infestation	22
Latrine accommodation defective	173
Latrine accommodation inadequate	38
Drains, closed, choked	23
Drains, closed, defective	17
Drains, open, choked	22
Drains, open, defective	22
Drains absent or inadequate	7
Septic tanks, choked	31
Septic tanks, defective	21
Waste water, disposal, defective	95
Accumulations of refuse	196
Foodstuffs unprotected	49
Sleeping in kitchens etc.	17
Mosquito breeding	214
Miscellaneous	143
By verbal intimation	528
By written intimation	139
By Statutory Notices	581

SEWERAGE CONNECTIONS:

Premises connected	71
Pail closets converted	120
New closets installed to sewer	379

SEPTIC TANKS ETC:

Number installed	69
Septic pits	9
New closets connected to septic tanks etc.	163

ERECTION AND ALTERATION OF BUILDINGS:

Plans dealt with	381
Inspections made	2,298
Completion certificates issued	248

INFECTIOUS DISEASES:

Cases investigated	28
Inspections made	38
Rooms disinfected	10

RATS:

Number destroyed 28,454

NOTICES SERVED:

Public Health Ordinance	156
Municipal By-laws:-	
Insanitary Huts	6
Cleansing Plots	84
Inadequate latrine accommodation	9
Drainage	95
Others	40
Closing Orders (Insanitary Dwellings By-laws)	15

21. FOOD CONTROLINSPECTIONS TO PREMISES UNDER SPECIAL CONTROL

Premises	No of Inspections
Aerated water factories	184
Bakeries	64
Butchers' shops	361
Dairies & Milk shops	423
Laundries	82
Eating houses	301
Vegetable dealers	123
Hotels & Boarding houses	74
Markets	190
Grocers	261

FOOD INSPECTED AND CONDEMNED

	Inspected	Condemned
Meat	697,440 lbs.	313 lbs.
Provisions	71,133 "	1,764 "
Fish	21,338 "	84 "
Fruit	5,110 "	2,215 "
Tinned foods	18,509 "	1,902 "
Bottled foods	7,155 "	-
Bread	527 "	-
Vegetables	4,270 "	38 "
Milk	669 gallons	62 gallons
Mineral waters	2,842 bottles	367 bottles

22. ABATTOIR

The total number of animals slaughtered at the Municipal Abattoir during 1940 amounted to 114,260, exceeding the total for last year by 36,523. This large number includes 7,730 animals slaughtered on behalf of Military Authorities.

It has been pointed out in previous reports that the normal volume of work has increased to the extent of rendering the accommodation insufficient for efficient working and it can be readily understood that the added military kill has made the overcrowded condition very acute.

In spite of these adverse circumstances every effort was made to cope with the circumstances with some success.

The number of oxen slaughtered totalled 26,723 - over double the number killed last year.

28,484

Number destroyed

NOTICES SERVED:

138

6

64

9

82

40

15

Public Health Ordinance
Municipal By-laws:-
Insanitary Areas
Cleansing Fees
Licensing of Public Accommodation

City of New York (Municipal By-laws)

21. FOOD CONTROL

INSPECTIONS TO PREMISES UNDER SPECIAL CONTROL

Premises	No. of Inspections
Assested water factories	184
Bakeries	381
Butchers' shops	381
Dairies & Milkshops	381
Laundries	381
Restaurants	381
Vegetable dealers	381
Hotels & boarding houses	381
Licenses	381
Groceries	381

FOOD INSPECTED AND CONDEMNED

Inspected	Condemned
Meat	518 lbs.
Provisions	1,784 "
Fish	84 "
Fruit	3,815 "
Canned foods	18,500 "
Bottled foods	7,185 "
Bread	887,441 "
Vegetables	4,370 "
Milk	604 gallons
Mineral waters	3,842 bottles

22. ABATTOIR

The total number of animals slaughtered at the Municipal Abattoir during 1920 amounted to 114,380, exceeding the total for last year by 28,323. This large number includes 7,750 animals slaughtered on behalf of Military Authorities.

It has been pointed out in previous reports that the normal volume of work has increased to the extent of rendering the accommodation insufficient for efficient working and it can be readily understood that the added military kill has made the overcrowded condition very acute.

In spite of these adverse circumstances every effort was made to cope with the circumstances with some success. The number of oxen slaughtered totalled 28,723 - one double the number killed last year.

The number of sheep killed increased from 14,783 to 24,461, whilst the number of native sheep and goats reached the figure of 59,946, an increase of 13,393 over the previous year.

Owing to the slaughter of pigs being controlled, the number killed during 1940 decreased from 3,522 to 2,623.

Tables are appended showing the number of animals slaughtered together with percentages of condemnations.

The number of oxen condemned for all causes amounted to 5,702 or 21.3% of the kill compared with 16.2% for last year. Of these 5,702, 4,645 or 17.3% were condemned on account of measles, compared with 14.2% last year.

Of the remaining number 508 were rejected on account of being fevered, 149 for dropsy, 123 for jaundice, 104 for piroplasmosis, 73 for emaciation, 30 for tuberculosis, 24 for sepsis, 20 for bruising, 15 for rinderpest and 11 for other causes.

No condemnation for East Coast Fever was recorded during the year.

Of the 106 calves rejected, 97 were condemned for measles.

216 or 0.8% of the sheep killed were condemned, 58 for emaciation, 63 for lymphadenitis, 56 for being fevered, 11 for dropsy, 10 for jaundice, 13 for sepsis and 5 for other conditions.

Of the 59,946 native sheep and goats slaughtered, 2,089 or 3.4% were condemned, 808 for heartwater, 563 for being fevered, 257 for dropsy, 223 for lymphadenitis, 123 for jaundice, 81 for emaciation, 22 for pleuro-pneumonia and 12 for other conditions.

Of the 2,623 pigs killed, 42 or 1.6% were condemned, 16 for measles, 12 for being fevered, 9 for tuberculosis, 4 for sepsis and 1 for jaundice.

The total amount of meat condemned during 1940 reached the high figure of 2,102,695 lbs., about double of that condemned during the previous year.

INSPECTIONS

1940	Inspected	Condemned	% Condemned
Oxen	26,723	5,702	21.3
Calves	507	106	20.9
Sheep	24,461	216	0.8
Goats	59,946	2,089	3.4
Pigs	2,623	42	1.6
TOTAL	114,260	8,155	7.1

The number of sheep killed increased from 14,785 to 24,461, while the number of native sheep and goats reached the figure of 89,789, an increase of 13,888 over the previous year.

During the slaughter of this being controlled, the number killed during 1940 decreased from 3,522 to 2,985.

Tables are appended showing the number of animals slaughtered together with percentages of consumptions.

The number of oxen consumed for all purposes during 1940 was 2,702 or 81.8% of the total compared with 15,225 for last year. Of these 2,702, 4,045 or 17.5% were banded on account of disease, compared with 14,187 last year.

Of the remaining number 958 were rejected on account of being fevered, 149 for dropsy, 123 for jaundice, 104 for lymphadenitis, 75 for emaciation, 50 for tuberculosis, 34 for sepsis, 30 for bruising, 15 for ringworm and 11 for other causes.

No condemnation for East Coast Fever was recorded during the year.

Of the 105 calves rejected, 87 were condemned for ringworm.

215 of 6.6% of the sheep killed were condemned, 58 for emaciation, 68 for lymphadenitis, 68 for being fevered, 11 for dropsy, 10 for jaundice, 12 for sepsis and 5 for other conditions.

Of the 59,948 native sheep and goats slaughtered, 8,669 or 14.5% were condemned, 2,441 for being fevered, 2,277 for dropsy, 222 for jaundice, 123 for emaciation, 81 for lymphadenitis and 12 for other conditions.

Of the 2,669 pigs killed, 48 or 1.8% were condemned, 12 for being fevered, 12 for lymphadenitis, 12 for sepsis and 1 for ringworm.

The total amount of meat consumed during 1940 reached the high figure of 2,128,000 lbs., about double of that consumed during the previous year.

TABLE 1

Consumption	Consumption	Consumption	Consumption
Oxen	2,702	2,702	2,702
Calves	105	105	105
Sheep	24,461	24,461	24,461
Goats	89,789	89,789	89,789
Pigs	2,669	2,669	2,669
TOTAL	119,706	119,706	119,706

ORGANS CONDEMNED APART FROM CARCASSES

Hearts	9,084
Heads	7,785
Tongues	7,814
Kidneys	15,461
Livers	42,396
Lungs	43,163
Spleens	7,953
Stomachs	8,291
Intestines	7,581
Other	296

TOTAL 149,824

CONDITIONS NECESSITATING CONDEMNATIONS

1940	OXEN	CALVES	SHEEP	GOATS	PIGS	TOTAL
Cysticercus bovis	4,645	97	-	-	-	4,742
Cysticercus cellulosae	-	-	-	-	16	16
Dropsy	149	1	11	257	-	418
Emaciation	73	6	58	81	-	218
Jaundice	123	1	10	123	1	258
Lymphadenitis	1	-	63	223	-	287
Pleuropneumonia	1	-	1	22	-	24
Sepsis	24	1	13	9	4	51
Tuberculosis	30	-	-	1	9	40
Heartwater	3	-	1	808	-	812
Piroplasmosis	104	-	-	-	-	104
Bruising	20	-	3	2	-	25
Fevered	508	-	56	563	12	1,139
Melanosis	1	-	-	-	-	1
Anaplasmosis	2	-	-	-	-	2
Cancer	2	-	-	-	-	2
Rinderpest	15	-	-	-	-	15
Moribund	1	-	-	-	-	1
TOTAL	5,702	106	216	2,089	42	8,155

23. STAFF

Details of the staff working in the Public Health Department during the year are given under.

MEDICAL OFFICER OF HEALTH:

Dr.H.W. Tilling carried out the duties throughout the year.

LADY MEDICAL OFFICER:

Dr.E.N. Hartley continued her duties throughout the year.

CHIEF SANITARY INSPECTOR:

This post has still not been filled, it has been repeatedly stressed that the non-filling of this post is acting very detrimentally to the efficiency of the department and this is becoming more evident every year as the work of the department increases. It is essential that Council gives favourable consideration to this matter at an early date.

Mr. R.C. Forster has carried out some of the duties for a considerable time.

SANITARY INSPECTORS:

Mr. R.C. Forster who is recognised as Senior Sanitary Inspector carried out his duties throughout the year.

Mr. D. Mackintosh joined the Military Forces in July, the vacancy caused by his absence has not been filled.

Mr. S.W. White joined the Royal Air Force in November, this vacancy also has not been filled.

Mr. P. Cairns continued his duties through the year.

Mr. E.H. Scrivener continued his duties although from November to the end of the year he was absent on account of sickness.

INSPECTOR OF MEAT AND FOODS:

Mr. A.A. Watts carried out his very arduous duties throughout the year.

ANTI-MALARIA OFFICER:

Mr. G.R.C. van Someren joined the Military Forces early in the year, but has been seconded to work with the Anti-Malaria Section which is controlled by the Military Authorities.

SANITARY OVERSEER:

Mr. T. Bagnall continued his duties, but was absent on account of sickness the last month of the year when his services terminated with the Department.

HEALTH VISITORS:

Miss B.B. Pearson was absent on overseas leave from April to September, whilst Miss J. Smith returned from overseas leave in March, relief duty being carried out by Miss C.E. Eason.

Mrs. A. Gibb and Miss P. Benjamin continued their duties throughout the year.

CLERK:

Miss W.W. Harris returned from overseas leave during February.

PERSONNEL OF PUBLIC HEALTH DEPARTMENT
DURING 1940

<u>Appointed:</u>		<u>From</u>	<u>To</u>
11-4-30.	MEDICAL OFFICER OF HEALTH: Dr. H.W. Tilling	1-1-40	31-12-40
1-2-37	LADY MEDICAL OFFICER: Dr. E.N. Hartley	1-1-40	31-12-40
	CHIEF SANITARY INSPECTOR: Vacancy		
	SANITARY INSPECTORS:		
4-8-29	Mr. R.C. Forster	1-1-40	31-12-40
15-9-31	Mr. D. Mackintosh	On Service	
26-8-33	Mr. S.W. White	On Service	
1-1-36	Mr. P. Cairns	1-1-40	31-12-40
1-9-38	Mr. E.H. Scrivener	1-1-40	31-12-40

RECENTLY EXPIRED:

Mr. R.C. Foster who is recognized as Senior Sanitary Inspector carried out his duties throughout the year.

Mr. D. Macdonald joined the Military Forces in July, the vacancy caused by his absence has not been filled.

Mr. S.W. White joined the Royal Air Force in November, this vacancy also has not been filled.

Mr. F. Smith continued his duties through the year.

Mr. E.H. Scrivenor continued his duties although from November to the end of the year he was absent on account of illness.

INSPECTOR OF MEAT AND FOODS:

Mr. A.A. Watts carried out his very arduous duties throughout the year.

ANTI-MALARIA SERVICE:

Mr. J. G. ... and ... joined the Military Forces early in the year, the vacancy caused by their absence has not been filled.

LABORATORY OVERSEAS:

Mr. T. Barnard continued his duties, but was absent on account of illness the last month of the year when his services terminated with the Department.

HEALTH VISITORS:

Miss S.B. Pearson was absent on overseas leave from April to September, whilst Miss J. Smith continued her services throughout the year, relief duty being carried out by Miss C.E. Foster.

Mrs. ... and Miss F. ... continued their duties throughout the year.

GENERAL:

Miss E.V. ... returned from overseas leave during February.

PERSONNEL OF WORLD HEALTH DEPARTMENT

Appointed:	MEDICAL OFFICER OF HEALTH:	From	To
12-4-30	Dr. R.W. Filling	1-1-30	31-12-40
1-8-31	Dr. E.E. Harley	1-1-30	31-12-40
OTHER SANITARY INSPECTOR:	Vacancy		
SANITARY INSPECTORS:	Mr. R.C. Foster	1-1-40	31-12-40
	Mr. D. Macdonald	On Service	On Service
	Mr. S.W. White	On Service	On Service

<u>Appointed</u>		<u>From</u>	<u>To</u>
1-1-29	INSPECTOR MEAT & FOODS: Mr. A.A. Watts	1-1-40	31-12-40
1-2-37	ANTI-MALARIA OFFICER: Mr. G.R.C. van Someren	On Service.	
1-6-29	SANITARY OVERSEER: Mr. T. Bagnall	1-1-40	31-12-40
1-1-36	HEALTH VISITORS: Miss B.B. Pearson	1-1-40	31-12-40
1-1-36	Miss J. Smith	1-1-40	31-12-40
1-6-36	Mrs. A. Gibb	1-1-40	31-12-40
1-9-37	Miss P. Benjamin	1-1-40	31-12-40
1-7-35	CLERK: Miss W.W. Harris	1-1-40	31-12-40

24. EXPENDITURE

The expenditure of the Public Health Department for the year amounted to £13,097 of which Government by grants made on account of public health services, contributed £6,256, leaving £6,841 to be borne by Council.

The details of expenditure are given under. The figures in brackets refer to expenditure during 1939.

It will be noted that there was a considerable saving, amounting to £755 under the heading of Administration, whilst there was increased expenditure to the extent of £1,122 for Infectious diseases prevention, the main items of this increase being hospital fees £241, Notification fees £368, Native wages £393 and Oil £192.

Expenditure in connection with Auxiliary Health Services was approximately the same as last year, the small increase being mainly due to salary increments and relief.

ADMINISTRATION:

	£	£	£	£
Salaries: Medical Officer of Health and Sanitary Inspectors	4,916	(5,488)		
Clerk	266	(410)		
Boys wages etc.	78	(82)		
Locomotion Allowances	192	(191)		
Passages	228	(254)		
Provident Fund	428	(424)		
Printing, stationery, telephone	138	(151)		
Rent	300	(300)		
Sundry expenses	8	(11)	6,556	(7,311)

INFECTIOUS DISEASES PREVENTION:

Hospital fees	682	(441)		
Notification fees	417	(49)		
Overseer's salary	350	(350)		
Malaria Officer's salary	336	(370)		
Native wages etc.	498	(106)		
Oil and stores	752	(556)		
Laboratory expenses	176	(14)		
Upkeep of lorry	206	(80)	3,417	(2,295)

FOOD CONTROL:

Miscellaneous expenses	26	(17)	26	(17)
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AUXILIARY HEALTH SERVICES:

Salaries, Lady Medical Officer and Health Visitors	2,318	(2,083)		
Wages, native staff	133	(150)		
Uniforms etc.	23			
Medical stores	282	(346)		
Infant food and milk	54	(59)		
Maintenance and repairs	90	(79)		
Stationery, telephone	38	(29)		
Light, water, insurance	8			
Provident Fund	152	(145)	3,098	(2,947)

Total	13,097	(12,570)
Less Government contribution	6,257	(6,000)

Amount contributed by Council	£6,840	(£6,570)
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25. REPORT ON CHILD WELFARE, ANTE-NATAL AND VENEREAL CLINICS, DISPENSARIES, AND HOME VISITS FOR 1940

By Edith N. Hartley, M.B., Ch.B. (Edin.),
D.P.H. (Edin.).

Medical Officer in Charge.

The Municipal Council continued to maintain the same number of Welfare Centres, three for Africans, at Pumwani, Kariakor and Railway Landies, and one for Indians in the grounds of the Indian Maternity Home.

ADMINISTRATION

Salaries, Medical Officer	4,500.00
Salaries, Health Visitors	1,200.00
Salaries, Clerks	1,200.00
Postages etc.	100.00
Travel expenses	100.00
Telephone	100.00
Stationery	100.00
Light, water, insurance	100.00
Travelling fund	100.00
Medical stores	100.00
Medical food and milk	100.00
Maintenance and repairs	100.00
Stationery, telephone	100.00
Light, water, insurance	100.00
Travelling fund	100.00
Total	10,000.00

LOCALITY DISBURSEMENTS

Medical fees	441.00
Dispensing fees	417.00
Salaries of staff	350.00
Salaries of clerks	320.00
Postages etc.	100.00
Oil and stores	100.00
Travel expenses	100.00
Telephone	100.00
Stationery	100.00
Light, water, insurance	100.00
Travelling fund	100.00
Total	2,368.00

LOCALITY DISBURSEMENTS

Medical fees	441.00
Dispensing fees	417.00
Salaries of staff	350.00
Salaries of clerks	320.00
Postages etc.	100.00
Oil and stores	100.00
Travel expenses	100.00
Telephone	100.00
Stationery	100.00
Light, water, insurance	100.00
Travelling fund	100.00
Total	2,368.00

LOCALITY DISBURSEMENTS

Salaries, Lady Medical Officer	2,500.00
Salaries, Health Visitors	1,200.00
Salaries, native staff	100.00
Postages etc.	100.00
Medical stores	100.00
Medical food and milk	100.00
Maintenance and repairs	100.00
Stationery, telephone	100.00
Light, water, insurance	100.00
Travelling fund	100.00
Total	5,400.00

Total
Less Government contribution
2,500.00

Amount contributed by Council
2,500.00

23. REPORT ON THE VISITS, AND VISITORS' CLINIC, DISTRICTS, AND HOME VISITS FOR 1940

By ELLIS H. HARTLEY, M.D., D.P.H. (Edin.)

Medical Officer in Charge

The Medical Council has been asked to consider the work of the District Councils, and to report on the progress of the work in the year 1940. The Council has considered the work of the District Councils, and has found that the work has been carried out in a satisfactory manner. The Council has also considered the work of the Home Visits, and has found that the work has been carried out in a satisfactory manner. The Council has also considered the work of the District Councils, and has found that the work has been carried out in a satisfactory manner.

The same number of Health Visitors were retained, two had their overseas' leave, Miss Smith, of Kariakor, from October, 1939 to March, 1940, and Miss Pearson, of Railway Landies, from April, 1940 to September, 1940, and Miss Eason acted during their absence. Mrs. Gibb continued her work at Pumwani, and Miss Benjamin at the Indian Welfare Centre.

The war continued to overshadow the work, as mothers and children were encouraged by the Authorities to return to their homes in the Reserves, and this was intensified when Italy entered the war in June, as the monthly attendances show.

Child Welfare	April	May	June	July	August
Pumwani	1,217	897	810	569	495
Kariakor	572	726	355	353	313
Railway Landies	1,082	835	747	383	296

When the mothers realized that Nairobi remained free from Air Raids, they returned gradually to the Locations, but not up to the pre-war figures. The returns for the last three months show that the trend is to come back to Nairobi.

Child Welfare	October	November	December
Pumwani	678	687	1,098
Kariakor	277	235	363
Railway Landies	553	577	930

With the departure of so many of the babies to the Reserves, the Milk Scheme, the giving of milk free to undernourished babies and pregnant mothers had to be discontinued in July, except at the Indian Centre. It has not been resumed yet, because of the general scarcity of milk, due to Military demands and a dry year.

The Indian Centre was least affected by the war. A certain number of mothers and children went to India, but the Infant Welfare figures show only a slight variation.

April	May	June	July	August	September	October	November	December
437	519	376	343	476	454	452	375	208

All sections of the work, Ante-Natal, Home Visits, Dispensary and Venereal Diseases Clinics were affected in a corresponding manner. The Ante-Natal attendances of the Clinic held at Pumwani Maternity Hospital are particularly interesting in this respect, because the clinic serves not only Pumwani Location, but Kariakor, as well as the surrounding districts.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Decr.
Attend- ances	195	178	166	230	161	129	102	142	195	138	155	260
New Cases	83	59	62	64	62	48	41	66	62	39	73	102

Because Pumwani Location contains the majority of the houses of Native prostitutes, and with the establishment of camps for Native troops in the vicinity of Nairobi, the Health Visitor made special efforts to induce, with a good deal of success, these women to come for treatment. The figures are interesting because they show the same decrease in the middle of the year.

Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
201	239	199	192	219	146	108	137	141	180	226	219

The Health Visitor of the Kariakor Welfare Centre continued to be in charge of the work in Shauri Moyo and a small section of the Railway Landies. This part of her work was done from the Landies Welfare Centre.

The same Ayahs and Native staff were retained and we are indebted to the General Manager of the Kenya and Uganda Railways and Harbours for allowing the boy to continue to assist at the Landies Welfare Centre.

As pointed out in my report for 1937, again in 1938, the Indian Community is very large and resident over an extensive area, that it is impossible for one Welfare Centre to deal adequately with all the work that requires to be done.

By the kindness of the Municipal Council to the Lady Grigg Welfare League, Dr. Hartley, besides her duties to the Health Department, has been permitted to act in an honorary capacity, to their African Native Maternity Hospital, and during the year has performed the following operations:-

Caesarean sections	18
Craniotomies	8
Forcep deliveries	14
Curettages	23
Induction of labour	4
Podalic version	4
Laparotomy	1
Abscess incised	1

Pumwani: Mrs. Gibb continued to be in charge, with one ayah and two native dressers to assist her.

The Welfare Centre had been equipped as an A.R.P. First Aid Post, at the outbreak of war, but ceased to be used for this purpose when more suitable quarters were made available in the Memorial Hall, Pumwani, in August.

	Clinics	Total Attendances			
		1937	1938	1939	1940
Child Welfare	52	9,692	10,420	10,723	10,319
Venereal Diseases	51	3,988	4,558	3,545	2,066
Dispensary		5,935	8,820	8,600	8,193
Visits by Health Visitor		1,053	2,229	2,822	2,697
Visits by Native Staff		3,899	3,631	3,228	3,209

The number of women, resident in the Location, who attended the Venereal Diseases Clinic for syphilis, totalled 128, and of these 64 persevered until their blood gave a negative reaction, 49 are still attending, and only 15 left the Location without completing the course.

The "casual" women who attended numbered 286, and only 17 continued treatment until their blood was negative.

There were no resident women attending for yaws. The majority are sent from the General Dispensary and come from the Kikuyu and Masai Reserves, they stay in or near Pumwani for treatment.

The distribution of milk was discontinued at the end of July. From January to July 4 women and 46 babies received milk. It was given three times a week and 1,585 pints were consumed.

Kariakor: Miss Smith returned from overseas' leave and resumed her duties on April 1st, 1940.

There are very small attendances for venereal disease at this Centre, probably owing to the fact that no single woman is allowed to rent a room here. The patients are "casual" from surrounding districts.

This Centre, at the outbreak of war, was equipped as an A.R.P. First Aid Post, and has continued to be used as such.

The Milk Scheme had been discontinued in September, 1939, but was recommenced in April, but had to be discontinued again in August.

<u>Total Attendances</u>				
	<u>Clinics</u>	1938	1939	1940
Child Welfare	53	7,996	5,707	4,503
Venereal Diseases	51	1,801	785	372
Dispensary		2,548	1,871	1,452
Visits by Health Visitor		1,421	756	672
Visits by Ayah		2,352	1,225	1,766

Railway Landies: Miss Pearson was absent on overseas' leave from 1st April till 1st October, when she resumed her duties. Miss Eason acted during her absence.

		<u>Total Attendances</u>			
	<u>Clinics</u>	1937	1938	1939	1940
Child Welfare	53	11,799	13,040	10,769	8,655
Ante-Natal	50	1,664	1,778	1,483	1,138
Venereal Diseases	53	2,081	1,404	382	453
Dispensary		10,446	8,864	5,618	5,463
Visits by Health Visitor		1,355	1,647	2,013	1,461
Visits by Ayahs		3,348	2,961	2,388	2,475

There were 64 babies born in the Landies, and 35 in Hospital, a total of 99 out of the 241 mothers who attended the Ante-Natal Clinics.

The effect of the war has been most marked on the figures of attendances at this Welfare Centre. The Railway Authorities gave free passes to Mothers in encouraging them to return to their homes and are able to maintain greater discipline as all the husbands are Railway employees.

Shauri Moyo and K.U.R.: The Health Visitor of Kariakor did the work in this location from the Railway Landies Welfare Centre.

<u>Total Attendances</u>				
	<u>Clinics</u>	<u>1938</u> (for 3 mths. only)	<u>1939</u>	<u>1940</u>
Child Welfare	51	1,760	8,655	6,292
Ante-Natal	50	114	717	347
Venereal Diseases	51	56	449	389
Dispensary		484	3,013	3,216
Visits by Health Visitor		334	1,369	1,487
Visits by Ayah		400	2,426	3,906

Indian Welfare Centre: Miss Benjamin continued to be in charge as Health Visitor and Mrs. Kapila as Assistant.

No Venereal Diseases Clinic is held at this Welfare Centre, any patient requiring treatment is referred to the family doctor, so our work, in no way interferes with the work of the Medical Practitioners. In fact the Health Visitor in her report states "It is interesting to note that there has been a good co-operation between the Medical Practitioners (both Indian and Europeans) and the Clinic all through the year. All the cases of illness have been referred to their own doctors, and in return the cases that should be dealt with in the Clinic have been referred to the Clinic by the Medical Practitioners. It has been very satisfactory indeed." She reports "It can be safely said that the Clinic has gained the confidence of the parents and of the husbands. The Mothers have willingly stayed in the Clinic for the whole day for test feeds when they were asked, and the fathers and the husbands have willingly come for interview and have followed the advice minutely. The parents have taken the full advantage of the Home Visits. The home conditions have improved and several of them have changed their houses when they were asked to do so, because of the unhygienic conditions."

The Milk Scheme was not discontinued at this Centre. Two pregnant mothers, three nursing mothers and 11 infants and toddlers received milk. All, except one, showed improvement in their general condition or weight. The one failure was due to lack of perseverance and co-operation on the Mother's part.

Of the 516 mothers attending the Ante-Natal Clinics, 371 were new cases, and 239 were confined in Hospital. 74 were attended by trained midwives and 48 by untrained dais, 54 left the district. Out of 371 new cases, 41 came from outlying towns and districts.

<u>Total Attendances</u>				
	<u>Clinics</u>	<u>1938</u>	<u>1939</u>	<u>1940</u>
Child Welfare	50	4,109	4,889	4,966
Ante-Natal	53	1,757	1,945	1,906
Dispensary		7,021	5,086	3,591
Visits by Health Visitor		1,389	2,448	3,180
Visits by Assistant		760	805	1,300

The sixth Visitor of Health and the work in this location from January 1938 to January 1939.

1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	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Child Welfare Clinics

	<u>Pumwani</u>	<u>Kariakor</u>	<u>Railway Landies</u>	<u>Shauri Moyo</u>	<u>Indian</u>	<u>TOTAL</u>
Clinics	52	53	53	51	50	259
Attendances	10,319	4,503	8,655	6,292	4,966	34,735

Ante-Natal Clinics

	<u>Pumwani Hospital</u>	<u>Railway Landies</u>	<u>Shauri Moyo</u>	<u>Indian</u>	<u>TOTAL</u>
Clinics	52	50	50	53	205
Attendances	2,051	1,138	347	1,906	5,442

Venereal Diseases Clinics

	<u>Pumwani</u>	<u>Kariakor</u>	<u>Railway Landies</u>	<u>Shauri Moyo</u>	<u>TOTAL</u>
Clinics	51	51	53	51	206
Attendances	2,066	372	453	389	3,281

Home Visits

	<u>Pumwani</u>	<u>Kariakor</u>	<u>Railway Landies</u>	<u>Shauri Moyo</u>	<u>Indian</u>	<u>TOTAL</u>
Health Visitor	2,697	672	1,461	1,337	3,300	9,347
Staff	3,209	1,766	2,475	2,137	1,300	10,887

Dispensaries

	<u>Pumwani</u>	<u>Kariakor</u>	<u>Railway Landies</u>	<u>Shauri Moyo</u>	<u>Indian</u>	<u>TOTAL</u>
Women	2,762	414	1,143	782	761	5,862
Children	4,820	1,038	4,320	3,216	2,836	16,230
Men	611	-	-	-	-	611

CHILD VISITOR SERVICE

CLINIC	PRESENT	RELAY	RELAY	RELAY	RELAY	TOTAL
Attendance 10, 218	18	18	18	18	18	18
	4, 208	8, 888	8, 888	8, 888	8, 888	8, 888

After-School Clinics

CLINIC	PRESENT	RELAY	RELAY	RELAY	RELAY	TOTAL
Attendance 8, 251	18	18	18	18	18	18
	1, 188	1, 188	1, 188	1, 188	1, 188	1, 188

Home Visits

CLINIC	PRESENT	RELAY	RELAY	RELAY	RELAY	TOTAL
Attendance 2, 088	18	18	18	18	18	18
	878	878	878	878	878	878

Home Visits

CLINIC	PRESENT	RELAY	RELAY	RELAY	RELAY	TOTAL
Attendance 2, 809	18	18	18	18	18	18
	1, 788	1, 788	1, 788	1, 788	1, 788	1, 788

Discontinued

CLINIC	PRESENT	RELAY	RELAY	RELAY	RELAY	TOTAL
Attendance 2, 788	18	18	18	18	18	18
	1, 288	1, 288	1, 288	1, 288	1, 288	1, 288

Comparison of Attendances and Visits

	1932	1933	1934	1935	1936	1937	1938	1939	1940
Child Welfare Clinics	7,923	11,448	11,698	11,385	25,190	36,824	37,325	40,734	34,735
Ante-Natal Clinics	1,626	1,958	2,198	2,711	3,955	4,994	5,744	6,196	5,442
Venereal Diseases Clinics	4,219	3,432	3,967	6,277	8,703	8,363	7,819	5,161	3,281
Dispensaries	23,316	19,861	29,066	36,258	38,058	26,604	27,737	24,188	22,703
Total Attendances	37,084	36,699	46,929	56,631	75,906	76,785	78,625	77,475	67,161
Home Visits	3,646	4,373	7,738	12,146	12,532	15,812	17,213	19,480	20,234

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