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City of Birmingham



REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1936

BIRMINGHAM:
TEMPLAR PRINTING WORKS, EDMUND STREET

1937



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City of Birmingbam

REPORT

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MEDICAL OFFICER OF HEALTH

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1936

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Public Health Department, The Council House,

BIRMINGHAM.

TO THE CHAIRMAN AND MEMBERS, PUBLIC HEALTH AND MATERNITY AND CHILD WELFARE COMMITTEE.

I submit my report on the health of Birmingham during 1936. It will sufficiently indicate the directions in which the various services for the public health have operated and expanded during the year.

As for England and Wales as a whole, so for Birmingham, there was a slight rise in the death-rate for the year. The death-rate was, however, a low one as compared with that of other large cities. The year also saw a slight rise in the birth-rate, and a small drop in the infant mortality, the mortality under one month, the mortality between 1 and 2 years, and between 2 and 5 years. It may be said, therefore, that the conditions which, affecting old people, showed their effect in a slightly raised death-rate, failed to prevent the continued improvement in health of the infant and young child. We cannot claim the same, however, for the mother. There was an increase, though not a large one, in the maternal mortality rate, arising mainly from certain deaths from haemorrhage and from accidents of pregnancy. Your Committee approached the Maternity Hospital during the year with a view to establishing an emergency ambulance and surgical service, popularly labelled a "flying squad," to take a specialist surgeon, a nurse and equipment to the home where a woman in labour is in a grave emergency such that she is unfit at the moment to be transported to hospital. That service came into effect during the year, and already has been instrumental in saving life.* It will deal with the precise type of condition which has played a serious part in the maternal mortality rate for 1936.

The incidence of scarlet fever has continued somewhat high, though the disease has been almost uniformly mild. The prevalence of diphtheria has been almost identical with that for 1935; but on the whole the severity, while still great, has been less than in the previous year. Tuberculosis happily continues steadily to diminish in prevalence and in mortality, though it still takes a high place among the agencies gravely inimical to national health and welfare.

The hospitals, general and special, have had a heavy period of activity during the year. The general hospitals in particular have felt the stress of a growing tendency towards hospitalization without a corresponding growth in hospital beds to meet the pressure. Decisions reached by the City Council in regard to certain extensions at Selly Oak Hospital will be dealt with in next year's report.

The year has been a somewhat difficult one in relation to housing. Owing to the widespread difficulty in the erection of sufficient new houses, it proved necessary for the City Council temporarily to suspend the consideration of representations of clearance areas. With improving conditions as to house building, the Council were able, at the beginning of 1937, to withdraw that prohibition.

The maternity and child welfare services of the City continue to grow, both in the scope of the services and in the numbers of women and of young children served by them. There is probably no section of your Committee's activities which gives a more direct or a greater economic return for the money and energy spent.

For other particulars I would refer readers to the text of the report. It is a pleasure again to record my grateful thanks to you, Mr. Chairman, and to the Committee for much kindness and consideration, and to all members of the staff for their loyal and enthusiastic service during the year.

I am.

Your obedient Servant,

H. P. NEWSHOLME,

Medical Officer of Health.

July, 1937.

CITY OF BIRMINGHAM

REPORT OF THE MEDICAL OFFICER OF HEALTH For the Year 1936

SUMMARY OF STATISTICS.

Area (in acres), 51,147.

Population (Census, 1931), 1,002,603.

Estimated by Medical Officer, 1936, 1,038,000.

Estimated by Registrar-General, 1936, 1,018,800.

Total number of houses including shops, etc., with houses at April 1st, 1936, according to rate books, 268,310.

Rateable value, £6,893,926 (April 1st, 1936).

Sum represented by a penny rate, £26,363.

Extracts from vital statistics of the year 1936:-

Births-Males: 8,415 \ Legitimate, 15,833

Females: 7,971 | Illegitimate, 558 | Birth Rate, 15.8.

Stillbirths, 590. Rate per 1,000 total live and stillbirths, 35.

Deaths, 11,690. Crude Death-rate 11.3. Standardised Death-rate 12.4.

Percentage of deaths occurring in public institutions-52 per cent.

Number of women dying in, or in consequence of, childbirth-

				Deaths.	live and still births.
From sepsis	***	***		 25	1.47
From other causes		***	***	 35	2.06
				Total 60	3.53
					-

Deaths of Infants under one year of age per 1,000 live births:— Legitimate, 61. Illegitimate, 105. Total, 62.

Deaths from Cancer, 1,682.

Deaths from Measles (all ages), 39.

Deaths from Whooping Cough (all ages), 107.

Deaths from Diarrhoea (under two years of age), 88.

1. POPULATION AND MORTALITY STATISTICS.

POPULATION.

The Registrar General estimated the population of Birmingham at 1,018,800 on June 30th, 1936. The local estimate, based on the natural increase due to excess of births over deaths, with an allowance for migration, was 1,038,000.

BIRTHS.

(See page 120).

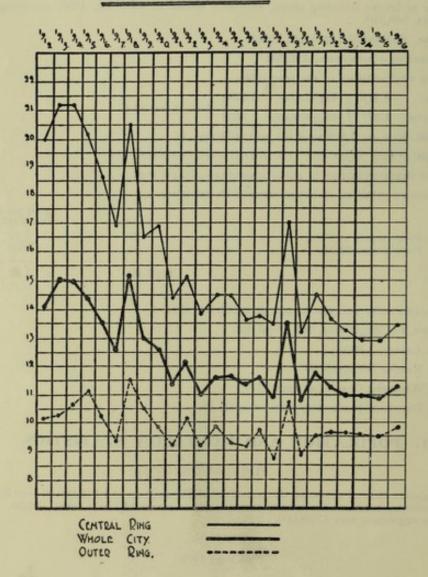
DEATHS.

The deaths belonging to Birmingham numbered 11,690 as compared with 11,233 in 1935 and 11,347 in 1934. Of these deaths 6,031 were of males and 5,659 of females.

The death-rate for 1936 was 11.3. The average for the ten years prior to 1936 was 11.4, while that for 1935 was 10.9.

The fluctuations in the death-rate during the past 25 years are shown on the diagram below, which also shows the rates in the Central and Outer groups of wards.

DEATH RATES.



The progress in reduction of the death-rate in England and Wales and in Birmingham during the past 66 years can be seen from the figures below:—

DEATH-RATES IN BIRMINGHAM AND ENGLAND AND WALES.

			Birminghar	m	Engl	and and Wa	ales
1871-1875	(Old City)	***	25.2	***		22.0	
1876-1880	,,		22.8			20.8	
1881-1885	"	***	20.7			19.4	
1886-1890	,,	***	20.2		***	18.9	
1891-1895	**		20.3			18.7	
1896-1900	,,	***	20.5		***	17.7	
1901-1905	(Present Area)	***	16.5			16.0	
1906-1910	,,		15.0		***	14.7	
1911-1915	,,	***	14.6			14.3	
1916-1920	,,	***	13.4	***	***	14.4	
1921-1925	,,	***	11.5	***	***	12.2	
1926-1930	,,		11.6			12.1	
1931-1935		***	11.2	***	***	12.0	
1927	,,	***	11.6			12.3	
1928	,,	4.00	10.9			11.7	
1929	,,		13.5			13.4	
1930	,,		10.8		***	11.4	
1931	***	***	11.7		***	12.3	
1932	**	***	11.3		***	12.0	
1933			11.0	***	***	12.3	
1934	,,	***	11.0	***		11.8	
1935	"		10.9		***	11.7	
1936	"	***	11.3		***	12.1	

Up to 1915 the mortality in Birmingham was above that of England and Wales. During the 21 years since that date, with one exception, it has been below the rate for the country as a whole.

The following table sets out the death-rate in 1936 for the eleven largest towns, and indicates that, despite its size, Birmingham occupies a favourable position:—

COMPARATIVE DEATH RATES IN ELEVEN LARGEST TOWNS.

London					***	444		12.3 per 1,000
Glasgow	***							14.5
Birmingham		***			***		***	11.3
Liverpool	***	***	***	111	***	***	***	12.9
Manchester	411	***						13.5
Sheffield		***	***	***	***		***	12.2
Leeds	***	***		***			***	13.6
Edinburgh	***	***	***		***		***	13.4
Bristol	***	***	***	***	***	***	***	12.3
Bradford Hull	***	***	***	***	***	***	***	14.9
riuli	***	***	***	***	131	***	***	12.7

MORTALITY BY AGE AND SEX.

The deaths at different age periods were as follows:-

			Males.	Females,	Persons.
Under 1 year		 	584	437	1,021
1 and under 2		 	72	59	131
2 and under 5		 	74	71	145
5 and under 15		 	130	115	245
15 and under 25		 	194	219	413
25 and under 45		 	591	544.	1,135
45 and under 65	***	 	1,879	1,360	3,239
65 and under 75		 	1,414	1,279	2,693
75 and upwards		 	1,093	1,575	2,668

The deaths at ages over 65 years are largely to be regarded as in the natural order of things and to that extent as inevitable. They number 5,361 out of a total of 11,690.

The deaths at ages below 65 years contain large groups capable of marked reduction under healthy conditions of life and granted the whole-hearted co-operation of the public in living the healthy life. In 1936 such largely preventable deaths numbered 6,329, or 54 per cent. of the total.

Included among these are 1,021 deaths under 1 year of age, and a further 276 deaths between 1 and 5 years. The causes of mortality in these groups are set out in detail in the section of this report on Maternity and Child Welfare (Section VII).

Among school children (5 to 15 years), the largest individual causes of death were accidents (37), and diphtheria (34), while rheumatic fever (24), nervous diseases (21), and tuberculosis (22), were responsible for a not inconsiderable mortality at this age.

Among young people between 15 and 25 years, there were 413 deaths (8 per week on an average) of which 146 were due to tuberculosis.

In early adult life (25 to 45 years), 1,135 deaths occurred. At this age period also tuberculosis heads the list of diseases with 288 deaths.

In later adult life (45 to 65 years), the largest number of deaths was caused by heart and circulatory diseases (895) cancer being second (696 deaths), respiratory diseases third (378), and tuberculosis fourth with 279.

Fuller details as to the causes of death at different age periods and in the two sexes are given in Table II at the end of this report.

INFANT MORTALITY. (See page 122).

DEATH-RATES IN WARDS.

In 1936 the death-rates in the different Wards were as set out below. As in previous years there continue to be marked differences in the death-rates in the various Wards of the City:—

DEATH-RATES IN WARDS. 1936 St. Paul's 13.8 St. Mary's 15.7 Duddeston and Nechells 13.2 St. Bartholomew's Central Wards 12.4 Average 13.5 St. Martin's and Deritend 13.8 13.0 Market Hall 12.5 Ladywood Lozells 13.7 12.0 Aston Washwood Heath 8.7 10.8 Saltley Middle Ring Small Heath 11.2 Average 12.2 Sparkbrook 13.2 Balsall Heath 14.6 12.1 Edgbaston 12.3 Rotton Park 13.5 All Saints Soho 12.9 11.5 Sandwell 12.7 Handsworth Perry Barr 6.1 9.7 Erdington Gravelly Hill 8.9 Bromford 8.5 Outer Ring 8.9 Average 9.8 Stechford Yardley 9.3 9.1 Acocks Green Hall Green 6.7 Sparkhill 12.7 Moseley and King's Heath 12.0 9.9 Selly Oak King's Norton 9.7 Northfield 7.8 9.7 Harborne

In November 1934 many alterations were made in the boundaries of the Wards of the City, making it impossible to compare rates for individual Wards in 1936 with those in earlier years. It is, however, roughly correct to compare the total figures for the Central, Middle Ring and Outer Ring of Wards with those for previous years and the mean death-rates for the three groups are given in the next table:—

	Cen	tral Wards.	Middle Ring.	Outer Ring.
1930	 	13.3	10.8	8.9
1931	 	14.5	12.3	9.5
1932	 	13.6	11.7	9.8
1983	 	13.3	11.4	9.7
1934	 	12.9	12.0	9.6
1935	 	12.9	11.6	9.5
1936	 	13.5	12.2	9.8

The diagram on page 8 shows the death-rate during the past 25 years in the City as a whole contrasted with that of the Central Wards and of the Outer Ring. It will be noted that the mortality in the Central Wards is much nearer to that of the whole City than it was 25 years ago. Nevertheless the difference between the Central and the Outer Wards is still great. In 1936 there were 2,828 deaths in the Central Wards. If the death-rate in them had been as low as it was in the Outer Ring 775 of these deaths would have been avoided.

In the next table the mortality from some of the more prominent causes of death is shown for the three groups of Wards.

DEATH-RATES IN GROUPS OF WARDS, 1936.

	Central Wards	Middle Ring	Outer Ring	City
Measles	.06	.02	.03	.04
Whooping Cough	.21	.10	.06	.10
Diphtheria	.11	.07	.03	.06
Influenza	.10	.18	.12	.13
Tuberculosis of Respiratory System	.96	.73	.58	.71
Other forms of Tuberculosis	.08	.08	.06	.07
Cancer, Malignant Disease	1.77	1.72	1.36	1.57
Diseases of Nervous System and Sense				
Organs	.81	.76	.60	.69
Diseases of Heart	3.24	3.05	2.24	2.71
Other Diseases of Circulatory System	.81	.89	.58	.72
Bronchitis	.46	.27	.23	.29
Pneumonia (all forms)	1.06	.84	.61	.77
Other Diseases of Respiratory System	.20	.20	.11	.16
Diarrhoea and Enteritis	.18	.11	.10	.12
Other Diseases of Digestive System	.53	.52	.47	.50
Non-Venereal Disease of Genito-urinary				
System	.48	.47	.42	.45
Premature Birth and Diseases of Early				
Infancy	.69	.45	.50	.53
Old Age	.21	.23	.23	.24
Violence (all forms)	.60	.49	.46	.50
Other Causes	.95	1.04	.81	.91

In almost every instance the mortality is higher in the Central Wards than in the Outer Ring. This excessive mortality is very noticeable in the case of pneumonia, tuberculosis and heart diseases. In the case of pneumonia, the deaths last year in the Central Wards numbered 222. If the mortality had been no higher than in the Outer Ring they would have numbered 128, a saving of 94 lives.

PRINCIPAL CAUSES OF DEATH.

Particulars of the deaths from individual causes at different age periods and in the two sexes are set out in Table II at the end of this Report. The relative mortality attributable last year to some of the more important of these causes is shown in the diagram below.

- RELA	ITIVE MORTALITY FROM CERTAIN CAWES.
MEANLEN.	
WHOOPING GOGH.	
DIPHTHERIA.	
INFLUENZA.	
TUBERCULEAS.	
CANCER.	
NERVOUS STEM.	
HEART.	
OTHER CIRCULATORY.	
BRONCHITIJ.	
PNEUMONIA.	The state of the s
OTHER RESPIRATORY.	
DIARRHADAL.	
OTHER DIGENTIVE.	
GENITO-UDINARY	
PREMATURITY, ETC.	
ald AGE.	
VIOLENCE.	
OTHER CALLES.	The state of the s

The statistics relating to infectious diseases (including tuberculosis) are dealt with in detail in Section VI of this Report, and those relating to diarrhoea, prematurity and other infantile complaints in Section VII.

CANCER.

The deaths from cancer numbered 1,632 as compared with 1,571 in 1935. The part of the body primarily affected was as follows:—

									1936.	1935.
Lip, tongue, pala	ite. jaw.	and p	harvnx		***			***	85	85
Oesophagus, sto								***	451	438
Peritoneum, inte	stine, re	ectum			***		***		390	366 148
Female organs of	of reprod	luction						***	165 169	199
Breast		***		***		***		***	7	14
Skin Other parts		***	***	***	***			***	365	321
Other parts	0.00	4.4.4	111	2.5.5	200	111		200		

The death-rate in Birmingham and in England and Wales is shown in the table below:

DEATH-RATE PER 1,000 FROM CANCER.

				Birmingham.	England and Wales.
1927		***	***	1.36	1.38
1928			***	1.35	1.42
1929	***	***	***	1.34	1.44
1930			***	1.43	1.45
1931			***	1.46	1.48
1932	***		***	1.45	1.51
1933	***	***	***	1.43	1.53
1934				1.43	1.56
1935	***			1.52	1.59
1936	***	***	***	1.57	OF THE PARTY OF
	C	NCEP	DEATH-	DATES IN WARD	e

A STATE OF THE PARTY OF THE PAR	CANCER DEATH-RATES	S IN WARDS.
	- Ward.	Death-rate 1936,
	St. Paul's	2.08)
	St. Mary's	2.49
	Duddeston and Nechells	1 52
Central Wards	St. Bartholomew's	1 EC American 1 C
Central wards	St. Martin's and Deritend	1 54
	M-1-4 TT-11	1 00
	Ladamand	1.45
	[Lozells	1.96
	Aston	1.84
	Washwood Heath	1.29
	Saltley	1.55
Middle Ring	Small Heath	1.62 > Average 1.7
	≺ Sparkbrook	1.73
	Balsall Heath	2.09
	Edgbaston	1.61
	Rotton Park	1.74
	All Saints	1.73
	Soho	1.66
	Sandwell	2.10
	Handsworth	1.46
	Perry Barr	0.63
	Erdington	1.48
	Gravelly Hill	1.22
	Bromford	1.58
	Stechford	1.08
Outer Ring	≺ Yardley	1.13 \Average 1.40
	Acocks Green	1.14
	Hall Green	0.90
	Sparkhill	2.14
	Moseley and King's Heath	1.76
	Selly Oak	1.63
	King's Norton	1.68
	Northfield	1.03
	Harberton	1 17
	(Harborne	1.17)

In some of the newer parts of the town, such as Perry Barr and Hall Green, the favourable death-rate in respect of cancer is no doubt attributable to the small number of people there who are at an age when they are likely to suffer from the disease. The number of deaths in individual Wards is, however, so low as to make comparison between Wards unjustifiable.

FACILITIES AVAILABLE FOR THE DIAGNOSIS AND TREATMENT OF CANCER.
FACILITIES PROVIDED BY THE LOCAL AUTHORITY.

At Dudley Road Hospital a Deep X-ray Therapy Department has been under active operation for the past 13 years. Two theatres are provided for the treatment of cases, one fitted with a Stabilivolt machine working up to 200 K.V., and the other a neo-intensive machine working up to 180 K.V. Four beds for men and four for women are provided regularly for in-patient treatment, but these are capable of expansion as and when required.

Radon is obtained from the Birmingham University, while cases considered suitable for radium treatment are referred to the Radium Centre at the Birmingham General Hospital.

The Public Health Committee continue to pay an annual contribution of £250 to the Birmingham Branch of the British Empire Cancer Campaign in support of their work on cancer research.

In 1934 a legacy of £1,000 was left to the City Council by the late J. R. Turner for cancer research work. It was decided to pay the legacy to the British Empire Cancer Campaign (Birmingham Branch) over a period of three years for research work in connection with cancer of the lungs.

FACILITIES PROVIDED BY THE RADIUM CENTRE AND VOLUNTARY HOSPITALS.

The Birmingham General Hospital in conjunction with the University became one of the National Radium Centres in 1930. There are 32 beds available for cancer treatment at that Hospital. The radiation therapy comprises treatment by radium and by X-ray.

In 1936 there were nearly 2 grammes of radium at the Birmingham General Hospital, and .37 grammes at the Queen's Hospital, together with .3 grammes at the Women's Hospital and 41.4 milligrammes at the Children's Hospital.

In connection with the National Radium Centre a radon service has been established at the Birmingham University supplying radon to a large number of hospitals within a radius of about 40 miles.

An X-ray Therapy service is provided at the General Hospital. The apparatus comprises 3 Deep Therapy sets and one Chaoul set. The facilities for X-ray Therapy are available also for patients from the Queen's Hospital, while there is free inter-change of patients between the Voluntary and Municipal Hospitals in respect of both X-ray and radium treatment.

DISEASES OF THE HEART AND BLOOD VESSELS.

There were 3,558 deaths from these diseases as compared with 3,242 in 1935. The death-rates during the past ten years have been as follows:—

		Birmingham.	England and Wales.
1927	 	 2.28	2.52
1928	 	 2.41	2.69
1929	 	 2.76	3.06
1930	 	 2.57	2.83
1931	 	 2.90	3.14
1932	 	 2.73	3.18
1933	 	 2.94	3.30
1934	 	 3.04	3.33
1935	 	 3.14	3.46
1936	 	 3.43	-

The death-rates in Birmingham are somewhat below those in England and Wales.

The age distribution of the deaths in 1936 was as follows:-

Under 1 year	****	***	***	***	3	0.1%
1 and under 2					1	0.0%
2 ,, 5				***	5	0.1%
2 ,, 5 5 ,, 15 15 ,, 25 25 ,, 45 45 ,, 65 65 ,, 75	***		***		12	0.8%
15 ,, 25					35	1.0%
25 ,, 45	***			***	145	4.1%
45 ,, 65			***	***	895	25.2%
65 ,, 75				200	1,141	32.1%
75 and over	***		***	***	1,321	37.1%

DEATH-RATES FROM DISEASES OF HEART AND BLOOD VESSELS.

	Ward.				Death-rate 1936.	
	C St. Paul's				4.22	
	St. Mary's	*****	1000	*****	3.99	
	Duddeston an	d Nachalla	******			
Central Wards	St. Bartholom		*****		3.68	Assertante 4.02
Central wards	St. Martin's a				4.00	Average 4.03
	Market Hall				100000	
					3.84	
	Ladywood				4.06	
	C Lozells				4.83	
	Aston				3.75	
	Washwood He	ath			2.91	
	Saltley			******	2.97	
Middle Ring	Small Heath				3.61	Average 3.94
sandie rang	Sparkbrook				4.53	irrerage olor
	Balsall Heath				4.79	
	Edgbaston			1000	3.77	
	Rotton Park		*****		3.83	
	All Saints	*****		41100	4.43	
	(All Saints	2000	*****	11101	4.40	
	C Soho	nor con			3.98)	
	Sandwell		2000	-	3.76	
	Handsworth				4.49	
	Perry Barr			1	1.10	
	Erdington				2.99	
	Gravelly Hill		21111		3.28	
	Bromford	*****			2.47	
Outer Ring	Stechford		-		2.08	Average 2.91
Outer Iting	Yardley				2.63	riverage a.o.
	Acocks Green				2.50	
	Hall Green	*****			1.59	
	Sparkhill	*****	*****		4.06	
		ing's Heat		Action	4.09	
	Moseley and K				2.65	
				*****	3.04	
	King's Norton	- some	10111	*****		
					1.65	
	Harborne				3.07	

BRONCHITIS, PNEUMONIA AND OTHER RESPIRATORY DISEASES.

The mortality from these diseases varies greatly from year to year, being influenced markedly by weather conditions and by the prevalence of such diseases as influenza, measles or whooping-cough. In 1936 the mortality was comparatively low, though rather higher than in 1935.

The mortality in recent years has been as follows:-

				Birmingham.	England and Wales.
1927				1.89	1.98
1928				1.56	1.51
1929				2.26	2.10
1930				1.32	1.30
1931			***	1.61	1.60
1932				1.47	1.36
1933				1.32	1.39
1934			***	1.26	1.24
1935		***		1.09	1.16
1936	***	***		1.22	NORTH PER NAMED IN

Unlike heart disease, respiratory diseases generally cause a somewhat higher mortality in Birmingham than in England and Wales as a whole. A considerable part of the mortality occurs in early life, the deaths last year being distributed as follows:—

Under 1 year			168	or	13.3%
1 and under 2 years	***		38	,,	3.0%
2 ,, 5 ,,		***	27	"	2.1%
5 ,, 15 ,,			23	"	1.8%
15 ,, 25 ,,			28	"	2.2%
25 ,, 45 ,,	***	***	126	,,	10.0%
45 ,, 65 ,,	***		378	"	29.8%
65 ,, 75 ,,		****	221	,,	17.4%
75 and over			258	**	20.4%
All Ages	***	***	1,267		_

DEATH-RATE PER 1,000 FROM RESPIRATORY DISEASES.

	Ward,	Death-rate 1936.
Central Wards	St. Paul's St. Mary's Duddeston and Nechells St. Bartholomew's St. Martin's and Deritend Market Hall Ladywood	1.68 1.92 1.67 1.53 2.07 1.52 1.52
Middle Ring	Aston	
	Soho	1.53 } 1.66 1.00 1.24 0.54 0.92
Outer Ring	Gravelly Hill Bromford Stechford Acocks Green Hall Green Sparkhill	0.93 0.54 1.00 0.95 0.99 0.59 1.47
	Moseley and King's Heath Selly Oak King's Norton Northfield Harborne	1.15 0.88 0.73 0.80 1.14

It will be seen that respiratory diseases are much more common as a cause of death in the Central Wards than elsewhere.

The highest death-rate was 2.07 per 1,000 in St. Martin's and Deritend Ward; the lowest, 0.54 in Perry Barr and Bromford.

II. GENERAL PROVISION OF HEALTH SERVICES.

PUBLIC HEALTH OFFICERS.

OBLIC H	EALTH OFFICERS							
General.								
	Medical Officer of	Health			***		***	1
	Secretary	***			***			1
	Medical Staff, whol	le-time, for g	eneral	purpos	es	-1.11	***	2
	General Clerical an	d Financial	Staff	***	***	***		59
Sanitary	Department.							
Sunteary	Staff of Sanitary In	nspectors		14.				85
	Disinfectors, etc.							16
	Cleansing Staff				444		***	6
	Clerical Staff	****	***	***	***	***		10
Material	and Child Wellows	Department						
Maternia	y and Child Welfare Medical Staff (who							16
	Medical Staff (part			***			***	20
	Dental Staff (whole							1
	Dental Staff (part	a de la companya della companya della companya de la companya della companya dell					***	1
	Health Visitors, In					- 111		134
	Caretakers and Cle							36
	Porters and Garde	ners						10
	Nursing Staff (Ho	spitals & Ho	mes)	***			***	106
	Domestic and Lau	ndry Staff			***	***	***	66
	Clerical Staff		***	***		***	***	10
Tubercul	osis Department.							
	Medical Staff	***			***		***	10
	Nursing Staff (San	atoria)						114
	Domestic Staff						***	64
	Porters, Gardeners,				***	***		58
	Tuberculosis Visito	ors and Disp	ensary	Nurse	S	***	***	20
	Clerical Staff	***		***	***		111	15
	Others		***	***	***	***	***	8
Infectiou	s Discases Hospital							
	Medical Staff			***	***		***	7
	Nursing Staff		***	***	***			212
	Domestic Staff	Ct-l D		***	***	***	***	70
	Porters, Gardeners,				***	***	***	58
	Others		***	***	***	***	****	12
General	Hospitals and Convale	escent Homes.						
	Medical Staff			***	***	***	***	38
	Nursing Staff	***	***	***	***			802
	Domestic Staff	Cul. D		***	***	***		381
	Porters, Gardeners,		vers	***	***	***	***	226
	Clerical Staff Workmen		***	***		***	***	49 58
	Others		***	***	***	***		46
Wash P				***				20
WOFKS D	epartment.	1 (1)						0.0
	Manager, Workme	en and Clerk	s	111	***	***	111	65
Bacteriol	logical Department.							
	Medical Staff							2
	Assistants and Staff	f						15
Analytica	al Department.							
100000000000000000000000000000000000000	City Analyst and I	Deputy						2
	Assistants and Staff							4
Public V	accination.		1000		100	10000	18	1
a dolle V		(mant sime)						01
	Public Vaccinators	(part-time)	, i	***	***	***	***	21
	Vaccination Office	rs (whole-th	ne)	***	11.55	444	211	6

Inspection of Cowsheds and Dairies and of meat and other foods is carried out by the Veterinary Department on behalf of the Public Health Committee.

CONSULTATION WITH VOLUNTARY HOSPITALS.

There has not been occasion during the year for formal consultation with the representatives of the Voluntary Hospitals under the terms of the Local Government Act, 1929. On a number of occasions the appropriate officers of Voluntary Hospitals have been consulted on matters of mutual interest or concern. During the year at the request of the Co-ordination Committee of the Birmingham Hospitals' Council a survey of hospital bed accommodation was made, particulars of which are given on page 27 of this Report.

POOR LAW MEDICAL OUT-RELIEF.

The Public Assistance Department have continued during the past year, the policy previously initiated, of making temporary appointments at the present time for all vacancies occurring among the Medical Staff of the out-relief department. The matter will be reviewed, however, again in the coming year and a further decision come to in the light of further experience obtained both locally and throughout the country generally. Two additional part-time temporary officers were appointed on April 1st, 1936, and on the retirement of a permanent part-time Officer in August, 1936, the vacancy was filled by a part-time temporary officer.

The accommodation for the chronic sick at Birmingham Infirmary has been heavily taxed during the year, more especially during the months of January, February and March, but it has also been noticeable that the drop in numbers which used to be associated with the summer months is much less pronounced and that the period over which it occurs is lessened. At the peak periods the difficulties of accommodating these cases have been very great and resort had to be made to the inclusion of a number of extra beds, beyond that which is advisable; even with this there has been delay in accepting cases which were referred to the institution both from their homes and the hospitals.

INSTITUTIONAL PROVISION FOR THE CARE OF MENTAL DEFECTIVES.

No new accommodation was provided during the year.

NURSING IN THE HOME.

The following cases were nursed at home during the year by the District Nursing Societies on behalf of the Public Health Department:—

Measles		***				***			38
Measles with Pne	umoni	a	***			***	.,,	***	20
German Measles		***				***		***	1
Whooping Cough		***		***		***		***	20
Whooping Cough					***	***			9
Whooping Cough	with	Measl	es		***	***		***	1
Pneumonia		***	***		***	***		***	669
Puerperal Pyrexia					***		***		12
Poliomyelitis			***		***	***	***	411	1
									-
									771
									-

The amount paid to the Societies on account of this work was £771.

Cases of Ophthalmia Neonatorum and other forms of ophthalmia are visited in their homes, as far as necessary, by nurses from the Eye Hospital, a grant of £420 per annum being paid to the hospital in respect of this service, together with travelling expenses.

MIDWIVES. (See page 159).

BACTERIOLOGICAL LABORATORY.

The work done at the City Bacteriological Laboratory is set out in the statement below:-

Diphther	ia Swabs:-									
(a)	For Practitioner	S		***			 ***	***		5,607
(b)	For Fever Hosp	itals				***	 	***		10,481
(c)	For virulence te				***		 			3,034
Fæces							 			1,443
Milks							 			599
	Ministry of Heal	th					 			52
	tuberculosis		***				 			1,881
Haemoly		***	***				 			706
	for Tuberculosis						 			2,551
Shell-fish		***					 			108
Water s							 			922
	s prepared				***		 			15
Widal's					***		 			1,036
Miscellar		-			***		 			7,030
	l Diseases :									
	od for Wasserman	m reac	tion				 			12,599
Cere	ebro-spinal fluid:									
	(a) For Wasser		reaction	1			 			524
	(b) For cell cour				242		 			122
Seri	um for spirochaet						 	***		3
	ns for Gonorrhoea						 			11,924
Uri	ne examinations :-									200
	(a) Microscopic						 			9
	(b) Chemical						 			1,097
Gor	nococcal fixation	tests					 	***		3,823
Vac	ccines prepared						 			395
							 			10,962
	tures prepared			200	222					
	tures prepared	sts						***		3,761
Var	n den Bergh's tes	sts					 			3,761 447
Var Sig										
Var Sig	n den Bergh's tes ma reaction	***					 		 _	447

ANALYTICAL LABORATORY.

The following statement indicates the samples analysed in the City Analyst's Department:-

						1935.	1936.
Food and drug samples						5,464	5,472
Soot gauge samples	***	***				24	24
Fertilisers and feeding stu	ffs		***			22	21
Miscellaneous samples		***			***	731	974
						6,241	5,491
							-
Food and Drugs Acts-							
Samples adulterated with	preser	vative	s only			4	1
Samples adulterated in oth	er way	ys	***	***		218	233
Unmarked or improperly	marke	d mar	garine				1
False labels						12	9
Number of vendors of inco	orrect :	sample	es			151	170
Number of prosecutions						15	9
Number of fines						9	8
Amount of fines and costs						£43/11/3	£44/9/6
Number of cautions					***	163	166

Particulars relating to this work are given in the Report of the City Analyst.

NEW LEGISLATION IN FORCE.

The following new legislation coming into force during the year ending 31st December, 1936, was delegated to the Public Health and Maternity and Child Welfare Committee:—

- 1. Midwives' Act, 1936-with the exception of Sub-sections 3, 4, 5 and 6 of Section 2.
- Section 54 of the Birmingham Corporation Act, 1935 (delegated on the 15th October, 1935), came into operation on the 1st January, 1936.

On the 15th October, 1935, Sections 3, 5, 6 and 10 of the Housing Act were delegated to the Public Health Committee, together with Sections 1, 2 and 4 thereof in conjunction with the Estates and Public Works Committees. The date of the operation of certain of these Sections was fixed in reference to such appointed day or days as the Minister of Health might fix and this Act has now been repealed by the Housing Act, 1936, which came into operation on the 1st January, 1937.

- 3. The appropriate Sections of the Housing Act, 1937.
- 4. Shops Act, 1936-in operation as from 1st January, 1937.
- 5. Retail Meat Dealers Shops (Sunday Closing) Act, 1936-as from 1st January, 1937.
- 6. Shops (Sunday Trading Restrictions) Act, 1936-as from 1st May, 1937.

HOSPITALS.

No material alteration took place during the year in the amount and character of the hospital accommodation available,

The part which the hospitals—voluntary and municipal—play in the treatment of sickness may be inferred in some degree from the fact that last year 6,063 deaths out of a total 11,690 occurred in hospitals and kindred institutions. Details of these deaths are as follows:—

Dudley Bond Hamital									1 000
Dudley Road Hospital		***	***	2.11	***	***		***	1,223
Selly Oak Hospital	144			***		***	***	***	630
Selly Oak Infirmary			200	***	***	300	111		748
General Hospital		***	***	***		***	***		426
Queen's Hospital	***					***		***	216
Children's Hospital	***		***			and.			210
Women's Hospital and Tayl	or He	ome		***		1000	***	-	89
Maternity Hospital	***	***	****	***			***	****	57
City Fever Hospitals, Babies	Hosp	oital an	d Mat	ernity	Home		***	***	292
City Mental Hospitals				***			***		160
City Sanatoria		***	***	***	***	***		***	292
Birmingham Infirmary	***				***	***	***	***	984
Erdington House	***		***					***	363
Private Hospitals	***			***		***	***		166
Institutions outside the City									207

The extent to which hospitals are used for particular diseases can in some degree be estimated from the statement below:—

	No. of Deaths.	Percentage of Total Deaths from this cause.
Measles	 29	74%
Whooping Cough	 75	70%
Diphtheria	 60	95%
Influenza	 14	10%
Tuberculosis of Respiratory System .	 362	49%
Other forms of Tuberculosis	 55	77%
Cancer	 793	49%
Diseases of Nervous System, etc	 363	51%
Diseases of Heart and Circulatory System .	 1,473	41%
Bronchitis	 78	26%
Pneumonia	 506	63%
Other Respiratory Diseases	 . 86	58%
Diseases of Digestive System	 496	77%
Genito-urinary System	 278	59%
Premature Birth, etc	 373	68%
Old Age	 99	40%
Violence	 326	63%
Other causes	 597	68%
	-	
	Total 6,063	52%
		TOTAL PARTY

CO-OPERATION WITH VOLUNTARY HOSPITALS.

There is a large degree of co-operation between the Public Health Department and the Voluntary Hospitals, and grants are paid by the Public Health and Maternity and Child Welfare Committee to certain hospitals in respect of the activities named below:—

- Under the Venereal Diseases Scheme patients are treated at special clinics at the General Hospital and the Children's Hospital.
- (2) Cases of Bone Tuberculosis are treated at the Royal Cripples' Hospital and to a smaller extent at a number of other institutions.
- (3) Puerperal Fever cases are admitted to the Women's Hospital and difficult cases of confinement to the Maternity Hospital.
- (4) For Out-patient Orthopaedic cases under 5 years of age the Royal Cripples' Hospital receives a per capita fee.
- (5) Cases of tonsils and adenoids and of eye and ear defects discovered at the Maternity and Child Welfare Centres are referred to the Children's Hospital for operation or treatment.
- (6) Cases of ophthalmia neonatorum are sent to the Eye Hospital, for out-patient or inpatient treatment as may be appropriate, while home visiting of cases is carried out by nurses on the Hospital staff. The Eye Hospital opened a convalescent home at Burcot Grange, Blackwell, early in 1937; and a grant towards the work is being made by the Public Health Committee.

CITY GENERAL HOSPITALS.

The statistics relating to the work of Dudley Road and Selly Oak Hospitals and Selly Oak Infirmary are given below:—

(a) IN-PATIENTS.

	Dudley Road	Selly Oak	Selly Oak
Total number of admissions (including infants born in hospital)	Hospital 14,179	Hospital 10,397	2,695
Number of women confined in hospital	1 150	783	2,055
Number of live births	1 105	754	
Number of stillbirths	65	40	_
Number of deaths among the newly born (under 4 weeks)		22	-
Number of maternal deaths (confined in hospital) Total number of deaths	1 217	649	764
Total number of deaths Total number of discharges (including infants born in hospital)	1,217	9,706	1,911
Total number of discharges (including mants both in hospital)	. 12,000	0,,,00	.,
(b) Out-patients.			
Number of persons seen in out-patient department	33,068	13,427	Run in con-
Total number of attendances	133,319	76,679	junction
Number of women seen at ante-natal clinic		777	Selly Oak
Total attendances	3,204	2,846	Hospital
(c) Classification of In-patients Dischard	ED OR DIE	D.	
(a) Acute infectious diseases	268	23	6
(b) Influenza	. 55	7	-
(c) Tuberculosis:			
Pulmonary	123	34	6
Non-pulmonary	44	21	12
(d) Malignant disease	345	175	174
(e) Rheumatism:			
(1) Acute rheumatism (rheumatic fever), together with			
sub-acute rheumatism and chorea	419	146	67
(2) Non-articular manifestations of so-called " rheuma-			
tism" (muscular rheumatism, fibrositis, lumbago,			1 11 -
and sciatica)	. 160	37	7
(3) Chronic arthritis	. 49	66	44
(f) Venereal disease	. 28	2	5
(g) Puerperal pyrexia		11 11 200	10-
(h) Puerperal fever		545	_
(i) Other diseases and accidents connected with child-beari (j) Mental diseases	54	4	3
(k) Senile decay	4	10	84
(1) Violence	1 010	1,380	89
In respect of cases not included above :-	100 100 100		
(m) Diseases of the nervous system and sense organs		216	190
(n) ,, ,, respiratory system (o) ,, ,, circulatory system	690	720 404	481 470
(A) digastiva system	9 951	2,789	375
(q) ,, ,, genito-urinary	900	825	120
(r) ,, ,, skin	538	467	115
(s) Other diseases	465	928	287
(t) Maternity cases (mothers and babies)		1,503	54
(u) Any persons not falling under above headings	71	53	86

DUDLEY ROAD HOSPITAL.

Report by the Medical Superintendent, Dr. F. W. Ellis.

During the past year 14,179 patients were admitted to the Hospital, an increase of 278 on the previous year, making it one of the busiest years on record.

The usual oscillations in numbers are shewn, accentuated no doubt by the fact that the cases at Selly Oak Hospital are consistently at a very high level, causing this Hospital double duty during the periods of high incidence of illness in the City.

This is the first full year when the admissions from Smethwick have been greatly restricted. The fall in numbers which would have resulted has, however, been fully made up by the taking of Handsworth's admissions.

The highest number of occupied beds was 905 on January 31st, the numbers remaining over 900 for about a week. This number of 905 is the largest number of patients that has ever been housed in the Hospital at one time and 123 extra beds were put up to cope with the admissions. The lowest number reached was 672 on August 28th.

On the 14th September the old Maternity Department was evacuated to the three wards in the 9 Block which had been set apart for this purpose for a number of years.

The work of demolition of the old building is now completed and the foundations of the new building well advanced. The extension of the Nurses Home on the North side by 40 cubicles is well advanced.

The serious difficulties in administration of the hospital, the result of inability to cope with the admissions of chronic sick at Birmingham Infirmary, reported last year, again presented a very urgent and increasingly difficult problem this year, more especially during the early months.

The Pathological and Bio-Chemical Department continue to show a material increase in each section. In the Radiological Department there is a marked increase of work over previous years, and the need for the reconstruction of this Department, which has been waiting for a great many years, becomes more and more urgent.

Associated with this, is the reconstruction of the massage and electro-therapeutic department and out-patient departments, and the urgent need for this work to be overtaken is very great indeed.

The building of the new theatres has begun, and when completed in the coming year the construction of the out-patient and massage and radiological departments will be undertaken more easily.

SELLY OAK HOSPITAL,

Report by the Medical Superintendent, Mr. R. P. STANLEY KELMAN, F.R.C.S.

As anticipated, this year has ended with another record total of admissions (10,397). This has been accomplished unfortunately at the expense of considerable overcrowding, while the average duration of stay of patients has been maintained at the same figure as for last year (17.8 days). The degree of overcrowding during the year is demonstrated by the high average occupied bed figure, viz., 504 and by the fact that the highest number of occupied beds on any one day was 577. These figures show clearly the strain placed on all sections of the Staff during the year. These results would not have been possible without complete team work and the full assistance of the special departments, which form an essential background to good hospital work.

Unfortunately the year ended with a large waiting list which shortage of accommodation made it impossible to avoid. I should like to take this opportunity of thanking the Birmingham and Midland Ear and Throat Hospital for the valuable help given by accepting for admission 200 cases from our ear, nose and throat waiting list,

The Isolation, and Ear, Nose, and Throat Ward extensions being provided should both relieve the existing overcrowding and enable the waiting lists to be kept within more reasonable dimensions. The lack of adequate isolation facilities is not only a source of danger but through ward infection means a loss in the total number of effective beds available during the year.

Miss A. M. E. Bodley, our keen and energetic Matron, who commenced her duties in Selly Oak Hospital as Matron in August, 1909, unfortunately retired in March, 1937. Miss Bodley has seen many changes in the Hospital since her appointment. The Nursing Staff has grown from a staff of 40 to that of 200 and the annual admissions have risen to the present total without there having been any addition to the total patient accommodation. Miss Bodley will carry with her the good wishes of all the Staff and of very many patients.

As with the last two years, owing to the pressure on the accommodation, it has been impossible to release a complete ward unit for redecoration.

The usual clinical meetings of the Selly Oak Hospital Medical Society have been held throughout the year and the University of Birmingham Medical Society and the Pathological and Clinical Section of the British Medical Association, met at Selly Oak Hospital on the 27th May and the 27th November, respectively.

The following figures show briefly the work of some of the special departments:-

Pathological Department:

Examinations	-			17,403
Autopsies				478

Bio-chemical Department:

examinations			5,897

Radiological Department:

Radiological	exami	nations		 19,507
Fluoroscopic	exami	nations		 1,689
Films used				14,704

Massage and Electro-therapeutic Department:

P					E 000
Cases	4.000	To the same of	Contract Contract	Taken and Taken	5.676

Dental Department:

Attendances		*****	*****	 2,335

The classification of the wards remains as follows, but owing to the shortage of accommodation, has not been strictly adhered to—

General Medical Wards
General Surgical Wards
General Children's Wards
Male Urological Ward
Fracture Wards
Gynaecological Ward
Ear, Nose and Throat Wards
Maternity Department
Staff Sick Bay.

SELLY OAK INFIRMARY.

Report by the Medical Superintendent, Mr. R. P. Stanley Kelman, F.R.C.S.

The following are some statistics showing the work done:-

Total admissions	 	 			2,695
Average daily occupied beds	 	 	***	***	646
Highest number of occupied			***	***	697 592

Like Selly Oak Hospital, Selly Oak Infirmary, as the above figures show, has shared in the heavy pressure on its accommodation.

Great credit is due to the Nursing Staff, the majority of whom are non-resident, for the valuable work done during the year. The successful and cheerful nursing of the chronic sick requires a high standard of nursing and is often an arduous and trying vocation, requiring considerable patience and tact.

The time will be welcomed when an effective training school in chronic nursing can be opened for Selly Oak Infirmary and full recognition given to this branch of nursing.

As each year passes the need becomes even more prominent for additional Staff accommodation. This is one of our main difficulties to-day.

GENERAL CONVALESCENT HOMES.

Wassell Grove Convalescent Home for Women and Children.

The Home has been open throughout the year. The total number of admissions was 623 as compared with 677 during the year 1935. Of the 623 there were 74 Out-relief cases, 264 from Dudley Road Hospital and 246 from Selly Oak Hospital.

The discharges from the Home include 239 women fit for work and 107 improved, and 239 children quite well and 27 improved.

The daily average during the year was the same as 1935, viz. : 33, and the lowest daily average was 14 during the month of December.

Tower House Convalescent Home for Nurses.

The value of this home to the nurses is being more appreciated and both for convalescence and for week-end visits is proving itself extremely useful.

"OAKLANDS" CONVALESCENT HOME.

This Convalescent Home has been a most useful asset in relieving the pressure on the accommodation of the hospitals and in completing the treatment of patients.

The admission of men and boys for the year totalled 581 and the main conditions for which treatment was continued at the Home were as follows:—

Pneumonia	****		****		151
Gastric and Duoden	al Ul	cers	***	***	91
Rheumatism	***	444	***	***	83
Debility				***	88
Bronchitis					48
Neurasthenia	***	***			20
Mastoidectomies		***			20
Chorea	***				18
Appendicectomies		***	***	***	15
Cardiac conditions		***	200	***	15
Empyema	***	***	***	***	14
Fibrosis of Lung		***	***	***	14
Catarrhal Jaundice			***	111	9

MATERNITY AND NURSING HOMES. (See pages 149, 161).

UNMARRIED MOTHERS AND ILLEGITIMATE CHILDREN. (See page 157).

MATERNAL MORTALITY. (See page 130).

HEALTH VISITING, (See page 136).

CHILDREN ACT, 1908, CHILDREN AND YOUNG PERSONS ACTS 1932 AND 1933. (See page 157).

BLIND PERSONS ACT, 1920.

The City Council are responsible for the administration of the Blind Persons Act, 1920, and have made arrangements with the Birmingham Royal Institution for the Blind for the following services to be provided on their behalf:

(1) Workshop employees.

At the end of the year under review there were 194 workshop employees registered. The trades practised are, for men—basket making, brush making, bedding, cane furniture, chair seating, etc. For women—hand knitting, round and flat machine knitting, chair seating, etc. Although the weekly pay of these employees is at the Trade Union or other standard rate customary in the particular class of work on which the blind person is employed, the handicap of blindness prevents most blind persons from earning a livelihood if they are paid only what they can earn on a strictly commercial basis. It is necessary, therefore, to augment their earnings and during 1936-7 the City Council paid £11,120 for that purpose.

(2) Home Workers.

There are 24 of these workers registered. Their ages vary from about 20 to 70 years and the occupations carried out are similar to those of the workshop employees, plus such work as wood-chopping, piano tuning and repairing, music teaching, netting, boot repairing, etc.

Each home worker is provided with the requisite tools and equipment for his particular trade, and where necessary worksheds are provided. Raw materials are supplied at cost price, and every assistance is given in helping him to dispose of his goods. Augmentation of earnings is provided for the home worker, and the amount paid by the City Council for this purpose was £1,029.

(3) Unemployables.

These constitute the largest category of the blind, and 1,117 were on the register in 1936. The needs of these persons are two-fold—financial and social. Financial assistance is provided by the Local Authority making up their income to 25/- per week. The cost to the Corporation of this service was £19,405. As regards social assistance, the pivot of this service is the Home Teacher, whose duties include the teaching of Braille and Moon type, pastime occupation, home visiting and welfare work. The aim of the service is to secure that systematic home visiting should be provided for all blind persons needing it.

Cowley Home.

This Home provides accommodation for some 25 homeless blind women. The contribution to the cost by the Local Authority for 1936-7 was £444.

Other responsibilities in relation to the welfare of the blind undertaken by the City Council include such matters as the maintenance of blind children at Sunshine Home. The contribution to the cost by the Local Authority for 1936-7 was £70.

The total contribution for all the blind services for 1936-7 was £35,675.

The following table gives particulars relating to all blind persons resident in Birmingham, including those mentioned above as coming within the scope of the Public Health Committee's responsibilities.

Babies in Sunshine Home 2 — Babies at Home 4 1 Babies in Public Assistance Institutions 4 1 Children at School—resident 8 14 Children at School—Day 6 7 Children of school age at home 4 2 Children of school age in Public Assistance Institutions 5 3 Children of school age in Public Health Department Hospitals — 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556 Unemployables in Public Assistance Institutions 33 49	-
Babies in Public Assistance Institutions 4 1 Children at School—resident 8 14 Children at School—Day 6 7 Children of school age at home 4 2 Children of school age in Public Assistance Institutions 5 3 Children of school age in Public Health Department Hospitals — 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	2
Children at School—resident 8 14 Children at School—Day 6 7 Children of school age at home 4 2 Children of school age in Public Assistance Institutions 5 3 Children of school age in Public Health Department Hospitals 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 7 Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	5
Children at School—Day 6 7 Children of school age at home 4 2 Children of school age in Public Assistance Institutions 5 3 Children of school age in Public Health Department Hospitals — 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	5
Children of school age at home Children of school age in Public Assistance Institutions Children of school age in Public Health Department Hospitals Adults in training—Resident Adults in training—Day Adults awaiting training To Workshop workers recognised Trained home workers Unemployables at home 4 2 2 3 4 4 2 4 2 4 4 7 7 7 7 7 4 61 61 61 61 61 61 61 61 61 61	22
Children of school age in Public Assistance Institutions 5 3 Children of school age in Public Health Department Hospitals — 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	13
Children of school age in Public Health Department Hospitals — 1 Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	6
Adults in training—Resident 8 4 Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	8
Adults in training—Day 7 7 Adults awaiting training 7 — Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	1
Adults awaiting training 7 Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	12
Adults awaiting training 7 Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	14
Workshop workers recognised 134 61 Other blind employees 13 8 Trained home workers 14 8 Unemployables at home 415 556	7
Trained home workers 14 8 Unemployables at home 415 556	195
Unemployables at home	21
	22
Unemployables in Public Assistance Institutions 33 49	971
	82
Unemployables in Public Health Department Hospitals 8 13	21
Unemployables in Cowley Home 12	12
672 747 1	419

REMOVAL OF INFIRM AND AGED PERSONS.

During 1936, 30 cases were investigated with a view to making use of Section 38 of the Birmingham Corporation (General Powers) Act, 1929, as compared with 25 cases in 1935 and 33 in 1934. Of these cases, 8 were males and 22 females. 19 of the cases were admitted to institutions or otherwise relieved, and 11 failed to fulfil the requirements and conditions of the Section. For the removal of two cases to hospital, it was found necessary to obtain a Magistrates Order.

On only one occasion was it found necessary to make use of Section 48 of the Birmingham Corporation Act, 1935, and a Magistrates Order for the removal of the person to hospital was

REPORT TO CO-ORDINATION COMMITTEE OF BIRMINGHAM HOSPITALS COUNCIL ON SURVEY OF HOSPITAL BED ACCOMMODATION 1935.

SCOPE OF SURVEY.

In accordance with the request of the Co-ordination Committee of the Birmingham Hospitals Council, and through the generous co-operation of the respective hospital officers concerned, we submit the following information regarding hospital bed accommodation in Birmingham during the calendar year 1935.

The data set out in the attached tables deal with the following points :-

- (a) The number of beds available for men, women and children in the various voluntary and
- municipal hospitals. (Tables I—V).

 The allocation of such beds to general medical or surgical or to special types of patient. (Tables II-V).
- The number of patients admitted to the various hospitals, classified as to type. (Table VI).

(Table IX).

- Number of out-patients and of casualties, classified as to type. (Table VII). Number of out-patient attendances. (Table VIII).
- Average number of beds available, and of beds occupied.
- Average length of stay in hospital. Percentage of beds occupied by out-City patients, 1930-35.
- Number of recovery (other than convalescent) beds.

It will be obvious that, through the varying methods of recording data in the several hospitals, it has not been possible to obtain full particulars in all these respects. It is, on the whole, cause for congratulation that the hospital staffs have found it possible to provide information even so complete as here set out. Where the information has not been capable of relatively ready provision, it has not been felt desirable to urge its provision at the cost of laborious dissection of registers and records.

EXTENT OF BED ACCOMMODATION.

This is provided in 15 voluntary and 20 municipal institutions. The data are summarised in Table I.

(a) Acute Sick (including maternity). 2,032 beds are provided in the voluntary hospitals, and 7,407 in the municipal hospitals, giving a total of 9,439 beds, or 9.1 per 1,000 of the population. If beds for mental cases are excluded, the total becomes 5,189, or 5.0 per 1,000 of the population.

(b) Chronic Sick. 20 beds are provided in a voluntary institution and 3,237 beds in municipal

institutions, or 3.2 beds per 1,000 of the population.

This does not, however, accurately represent the bed accommodation so far as the acute sick are concerned, available for Birmingham patients; for a proportion of the beds are occupied by patients coming in from other areas. The extent to which this applies is seen in Table IX, the data in which yield the conclusion that on an average 23.9 per cent. of the beds in the voluntary hospitals as a whole are occupied throughout the year by patients who are not residents of Birmingham. This reduces the proportion of beds available for Birmingham acute sick to 8.7 beds per 1,000 of the population, or to 4.6 per 1,000 of the population if mental cases are excluded.

It is of some interest to note that there has been a fairly general, though slow, trend towards the allocation of larger numbers of beds to patients from beyond the City. Taking the records of those voluntary hospitals for which data are available both for 1930 and for 1935, the proportion of beds occupied by out-City cases has risen from 21.9 per cent. of the total in the former year to 27.2 per cent. in the latter year.

If only the general voluntary hospitals are considered, 22 per cent. of the beds are occupied throughout the year by non-residents of Birmingham, and this figure has risen from 19 per cent. in 1930 to 25 per cent. in 1935.

NATURE OF BED ACCOMMODATION.

(a) General medical and surgical cases.

The beds allocated to general acute medical and surgical cases respectively are as follows:—

Beds for General medical	 Men. 347 419 9	Women. 352 297 19	Children. 516 195 11	Total. 1,215 911 39
	775	668	722	2,165

(b) Special types of case.

While the particulars are necessarily not wholly accurate as to the beds available for dealing with special types of case, apart from the precise particulars from the special hospitals, the following figures are, at any rate, an approximation towards the true position:—

Beds f	for				Men.	Women.	Children	. Total.
Gynaecology		Time.	100	-		263	-	263
Maternity	******				-	197	-	197
Ear, Nose and			-		63	50	110	223
Ophthalmic		*****			62	39	33	134
Neurological	-		1		9	25	7	41
Orthopaedic					68	61	185	314
Fractures	4000				25	18	8	51
Skin	-				68	45	56	169
Acute venereal					18	31	12	61
Infectious						696		696
Tuberculosis	*****	4000			291	223	119	633
Mental and mer	ntal defi	iciency	,		2,881	2,862	377	6,120

EXTENT OF USE OF BED ACCOMMODATION.

(a) Proportion of occupied beds.

The proportion of occupied beds, expressed as a percentage of the beds available for acute cases at a number of hospitals was as follows during 1935:—

	% o availab	f le beds.			ava	% of ilable beds.
General Hospital	88	3	Ear and Throat Ho	spital	1	86
Queen's Hospital	90)	Eye Hospital			71
Midland Hospital	76	;	Skin Hospital	min.	POLA :	83
Dudley Road Hospital	81		Nerve Hospital		41100	93
Selly Oak Hospital	87	7	Children's Hospital			89
Royal Cripples' Hospital	1 95	,	Maternity Hospital	20018	*****	86
Moseley Hall	89)	Women's Hospital	*****		89

(b) Average length of stay per patient.

For the same hospitals, the average length of stay per patient during 1935 was as follows :-

	No.	of days' stay.		No. o	of days' stay.
General Hospital		17	Ear and Throat Hospital	0100	12
Queen's Hospital		17	Eye Hospital		15
Midland Hospital	****	15	Skin Hospital		25
Dudley Road Hospital		20	Nerve Hospital		35
Selly Oak Hospital		18	Children's Hospital	1000	23
Royal Cripples' Hospita	al	84	Maternity Hospital		14
Moseley Hall		63	Women's Hospital		14

NUMBER OF IN-PATIENTS TREATED.

Tables I and VI set out the number of patients admitted to acute hospitals or chronic institutions as 71,960, or 1 in 14 of the total population of the City.

NUMBER OF OUT-PATIENTS TREATED.

Tables I and VII indicate that a total of 279,675 persons (225,709 to voluntary and 53,966 to municipal institutions), attended as out-patients, including casualties, making in all 1,139,339 attendances. The distribution of these, according to type of case, is given in some detail, though necessarily somewhat imperfectly, in Table VII.

H. P. Newsholme, Medical Officer of Health.

H. F. Shrimpton, House Governor, Children's Hospital.

I. HOSPITAL SURVEY OF BIRMINGHAM SUMMARY OF BEDS & PATIENTS, 1935

Patients Total Attendances	139,704	78,769	1	1	1	4,676	.1	1	1	1	1	1	1		716 (Venereal Clinic)	1	1		4,458	2,963	265,753	1,139,339
Out-Patients New Tc Cases, 1935	34,895	13,380	1	1	1	3,635	1	1	1	1	1	1	1		1	1	1	200	1,181	830	53,966	279,675
Patients Admitted.	12,871	9,296	2,828	481	144	888	282	301	170	121	106	4.410	30	(S.F. Conv.)	2,929	1,345	624		1,313	715	38,844	71,960
Beds Chronic Sick.	100	1	610	1	1	11	-		1	1	1	1	-		757	1,870	1	Sale Miles	1	1	3,237	3,257
Acute Sick.	916	520	107	84	10	325	120	190	89	1.256	400	900	60	3	159	1	2,594		41	27	7,407	9,439
MUNICIPAL.	Dudley Road Hospital	Selly Oak Hospital	Selly Oak Infirmary	Canwell Hall	Carnegie Institute	Yardley Green Rd. San. Anti-Tuberculosis Centrel	West Heath Sanatorium	Romeley Hill Sanatorium	Salterley Grange San.	Monyhull Colony		ch Hosp	WittonSmalloovHospital	in a second seco	Birmingham Infirmary	Erdington House	Winson Green Mental Hospital Rubery Mental Hosp.	Hollymoor Men. Hosp.	Wake Green Road Maternity Home	Heathfield Road Maternity Home	Total Municipal Hospitals	Grand Total Voluntary and Municipal Hospitals
Out-Patients New Total Cases. Attendances	192,298	1	161,696	1	18,739	67,721	41,866	101,437	777,68	30,350	32,370	104,398	19,039	13,895	Con Con		(Maryor)	Sign of the last o	HeH.	Tier Tier	873,586	
Out-Patients New To Cases. 1935	69,418	1	37,115	1	2,833	5,255	10,625	49,571	8,939	1,732	12,186	20,321	3,559	4,155	1	TACE .	eT ere		er-er	10.16	225,709	
Patients Admitted.	8,532	1	6,424	466	825	943	1,334	2,042	465	388	1	7,151	1,580	2,900	98		11 120				33,116	
ds Chronic Sick.		1	1	1	1	1	1	1	1	-	1	1	1	1	50		v min	W.	Long	10 2	8	
Acute Sick.	487	64	336	94	99	306	90	1115	51	41	1	248	20	124	1	122	profess trepas	Espain Service	100	- Vilas	2,032	
VOLUNTARY.	Conoral Homital		Queen's Hospital	Moseley Hall	Midland Hospital	Royal Cripples' Hospital	Ear and Throat Hospital		Skin Hospital	Nerve Hospital	Dental Hospital	Children's Hospital	Maternity Hospital	Women's Hospital	Taylor Memorial Home						Total Voluntary Hospitals	

II. HOSPITAL SURVEY: BEDS FOR MEN

MUNICIPAL

VOLUNTARY

		31	
Totals, Voluntary and Municipal.	3419	4873	688 688 1188 17 7
Heathfield Road Maternity Home.	1.13 1 1	1	211111 11111111
Wake Green Road	1.11 1 1	1	CITIL TELEFORE
Winson Gn., Rubery)	11318	1318	11111 111111 1 2 11
Erdington House.	111 1 88	888	11111 1111118 11
Birmingham Infirmary.	1 2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	415	11111 1144 11111
Vitton Smallpox Hespital	See Table V.	1	THE PERSON
Little Bromwich Hospital (Infectious)	See Table V.	1.	THE PROPERTY OF
Coleshill Hall.	1 1 28 1 1	186	11111 111111 9811
Monyhull Colony.	1 1 479	479	11111 111111
Salterley Grange Sanatorium,	118 1 1	38	11111 111118111
Romsley Hill Sanatorium.	1 1 211	75	11111 111118111
West Heath Sanatorium.	112 11	24	11111 111112111
Yardley Green Road Sanatorium.	1184 1 1	154	11111 11111 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Camegie Institute.	111 1 1	1	
Canwell Hall.	111 1 1	1	THE THEFT
Selly Oak Infirmary.	111 503	203	11111 11111111
Selly Oak Hospital.	37 1 37	191	11211 181111111
Dudley Road Hospital	64 1 1	284	Ray Ray
Taylor Memorial Home,	111 1 1	1	
Women's	111 1 1		11111 11111111
Maternity.	100 11	,	11111 111111111
Children's	111 1 1	1	THE THEFT
Nerve.	110 11	0	11110 11111111
Skin.	1 1 7 21 1	91	11111 1 2 1 1 1 1 1 1
Eye.	110 + 1	53	11181 11111111
Ear and Throat.	1 1 1 1 1 1	56	11811 11111111
Royal Cripples.*	1 2 61 1	8	11111 \$1111111
Midland.	a	21	anir immi
Moseley Hall.	111 1 1	1	11111 111111111
Gneen,s.	1 2 24 28	156	Dental 3 1 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1
.vezhel	9 1 1 1	33	THE CHILITIE
General.	1 25 26 72	263	11201 11001114
	11111 1 1	:	11111 111111511
1 manual	31111 1 1	:	Included in A. Gynaecology Maternity Ear, Nose and Throat Ophthalmic Neurological Orthopædic (excluding fractures) Fractures Skin Trabercures Skin Tuberculosis Mental & Mental Deficiency Casualty Other Beds
ng.	11111 1 8	TOTAL	Gynaccology Maternity Ear, Nose and Throst Ophthalmic Neurological Orthopædic (excludin Tractures) Fractures Skin Tractures Skin Tractures Skin Tuberculosis Casualty Casualty Other Beds
No. or Bins.	, 55	-	Included in A. Gynaecology Maternity Gynaecology Maternity Gear, Nose and Ophthalmic Neurological Orthopsedic (effactures) Fractures Skin Skin Skin Cother Search Mental & Mental & Mental & Casualty Other Beds Other Beds
No.	TOTALS Acure Medical Surgical Special Pay Beds Chronic Ster		Included in A. Gynaecology Maternity Ear, Nose and Throat Ophthalmic Neurological Orthopaedic (excluding Tractures) Fractures Skin Infectious or Isolation Tuberculosis Mental & Mental Defici Casualty Other Beds
	4		m'

III. HOSPITAL SURVEY: BEDS FOR WOMEN VOLUNTARY

			32		
	Total, Voluntary and Municipal,	3708	5421	263 197 187 187 2862 2862 2862 5	
	Heathfield Road Maternity Home:	1 161	27	17 17 17 17 17 17 17 17 17 17 17 17 17 1	
	Wake Green Road Maternity Home:	1 1 1 1 1 1	31	21 21 10 (Aute- nata)	
	Winson Gn., Rubery & Hollymoor (Mental).	1276	1276	11111 1111118	
	Erdington House.	111 88	882	11111 1111112	
	Birmingham Infirmary.	1 0 8 10 40 40 40 40 40 40 40 40 40 40 40 40 40	454	11111 1100111111	
	xoqlismS notitW fishiqsoH	See Table V. 1	1	THE HILLIAM	
	Little Bromwich Hospital (Infectious)	See Table V. 1	,	11111 11111111	
TV	Colespill Hall.	1 214	214	11111 1111114	600
MUNICIPAL	Monyhull Colony.	1 1 6	490	11111 1111111\$11	9
MUN	Salterley Grange Sanatorium.	118	98	11111 11118111	8
	Romsley Hill Sanatorium.	1 1 4	45	11111 111114111	17.6
	West Heath Sanatorium.	1 1 8 1	96	11111 111118111	
	Yardley Green Road Sanatorium.	1 1 00	52	11,311 111118111	
	Camegie Institute.	1.1.1	1	11111 11111111	1
	Canwell Hall.	1 1-1	1	11111 111111111	
	Selly Oak Infirmary.	7 407	414	(Ante-	E
	Selly Oak Hospital.	73 103	224	86011 1811111	
	Dudley Road Hospital,	173 108 123	404	(Deep 5.8 × Feb 7.8 × Feb	(Sick Bay 20)
	Taylor Memorial Home.		20	11111 111111111	5
	Momen's	102 1	124	2	THE O
	Maternity.	1 181 1	70	18111 111111111	00
	Children's	1111 1	1	TITLE TITLETTICE	5
	Nerve.	1181 1	25	11118 11111111	PE
	Skin.	((±s)	17	11111 112111111	. 0
RY	Eye.	1188 1	34	11181 11111111	
VOLUNTARY	Ear and Throat.	1 1 2 1 1	18	1121111111	
OLU	Royal Cripples'.	112 1	19	11111 611111111	THE REAL PROPERTY.
Λ	.bnelbild	4 -	23	title committee	3
	Moseley Hall.	1-1-1-1	1	TITLE TITLETT	0
	Green,s.	18 25 30	156	118 110 110 110 110 110 110 110 110 110	I I
	Jaffray.	9911 1	32	11111 111111111	
	General.	1 24.60	202	8 11 12 1 1 1 4 2 1 1 1 1 1	
		1111	1		
	é	:::::::::::::::::::::::::::::::::::::::	:	hroat hroat lattion Defici	
	No. or Bens.	partime	TOTAL	Sy A.	19
	, N	Acute Acute Medical Sucial In In In Italy Special Departments Pay Beds CURONIC SICK	To	Gynaecology Maternity Ear, Nose and Throat Ophthalmic Neurological Octhopaedic (excluding fractures) Fractures Skin Acute Veneral Infectious or Isolation Tuberculosis Gasualty Other, Beds	-
	201222112	ACUTE Medical Surgical Special Pay Be		B. included in A. Gynaecology Maternity Ext. Nose and Tophthalmic Neurological Orthopachic (extractures Fractures Skin Acute Veneral Infections or Is Tuberculosis Mental & Menta Casualty Other Beds Other Beds	
1		4			100

IV. HOSPITAL SURVEY: BEDS FOR CHILDREN

652 Totals, Voluntary and Municipal, 8 Maternity Home. TITLIBET. 1111 Heathfield Road 10 10 Prem. bables) Maternity Home. 112 10 1 E1111 Wake Green Road Winson Gn., Rubery & Hollymoor (Mental) 111 11111111 1 1 11111 8 8 11111181 Erdington House. 111 11111 114 Viemidal. 4 11112311 1 11111 Birmingham Hospital. See table V. 1 1 11111111 11111 voqueme antity Little Bromwich Hospital (Infectious) See table V. 1 T. 11111 I I I I I I I I I Colesbill Hall. 1 1 1 1 1 11111 TITLETE. 287 Monyhall Colony. 1 1 287 1 11111181 1 11111 Salterley Grange Sanatorium. 111 1 1 11111 11111111 muriotene2 1 1 1 1 1 11111 11111111 Romsley Hill canatorium. 111 1 1 11111 11111111 West Heath Yardley Green Road Sanatorium. 119 1 1 6 1111611 1 1 DESCRIPTION OF THE PARTY NAMED IN 211 9 Carnegie Institute. 1 11111 IIIIIIIII 8 1 1 84 Canwell Hall. 1 11111 11111111 34 Hithy: sables 19). (Illeg. thilden 15). 31 8 8 Selly Oak Infirmary 1 11111 100111114 128 32 11211 Selly Oak Hospital. 1 Dudley Road Hospital. 37 1112111 228 1 1 1 1 1 Taylor Memorial Home. 1.1.1 11111 LITTIFF Nomen's 1.1.1 1 1 1 11111 FILL LILL I Maternity. 1 1 1 1 1 11111 1111111 8 14 14 10 10 Nard 55.5 20 248 1 199 1 Children's 1 111 -1111 NOTIVE. 1 1111111 1 18 200 11211111 Skin. 1 1 1 1 1 1 Ehe. 1 1 20 111811 50 1111111 119 9 11011 Ear and Throat. 1 11111111 Royal Cripples'. 1 12 77 5111111 1 11111 = = TITLLIA Midland. . 1 11111 48 8 11111111 1 11111 Moseley Hall. Obser-51 00 T 24 Gneen, & 1 11111 Januay. 111 1 1 11111 TITLE LITTE 1 == 1 8 Ceneral 11111 1 111111 Gynaccology

Gynaccology

Maternity

Ear, Nose and Throat
Ophthalmic ...

Neurological

Orthopaedic (excluding
fractures) ...

Fractures ...

Skin ...

Acute Veneral
Infectious or Isolation
Tuberculosis...

Mental & Mental Deficie CHILDREN 11111 11111 SICK No. or BEDS. CHRONIC Pay Beds Acute Medical Surgical Special

VOLUNTARY

MUNICIPAL

33

V. HOSPITAL SURVEY: TOTAL BEDS

			34		
	Totals, Voluntary and Municipal.	9439 (floci- udlesg 164 Pay Bedsj,	3257	12696	263 197 222 134 41 1169 6120 6120 6120 6120 7 Ing Include 108 Ante- contains 108 108 108 108 108 108 108 108 108 108
	Heathfield Road Maternity Home.	1 121 1	1	27	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Wake Green Road Maternity Home.	1.12 1	= 1	=	21 20 20 Ante- matal 10 10
	Winson Gn., Rubery, Hollymoor (Mental).	1 1 26 1	1	2594	11111 11111168
	Erdington House.	1111	1870	1870	11111 111111111111111111111111111111111
	Birmingham Infirmary.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	757	916	11111 1182 11111
	Witten Smallpox Hospital.	118 1	1	690	11111 111181111
	Little Bromwich Hospital (Infectious).	118 1	1	9009	11111 11118
AL	Coleshill Hall.	118 1	1	400	1111 1111111111111111111111111111111111
MUNICIPAL	Monyhull Colony.	1256	1	1256	11111 111111198
MUN	Salterley Grange Sanatorium.	1 1 9 1	1	89	11111 111118111
	Romsley Hill Sanatorium.	1 1 1 1	1	120	rilir riligiri
	West Heath Sanatorium.	1 1 1 20 1	1	120	11111 111118111
	Yardley Green Road Sanatorium.	1 125	1	325	111111111111111111111111111111111111111
	Carnegie Institute.	211 1	- 1	10	
	Canwell Hall.	- ∞111	1	78	THE HITTER
	Selly Oak Infirmary.	99 1 4 1	610	717	41 Parish Parish
	Selly Oak Hospital.	144 144 230	1	520	386 339 399 399 399 399 399 399 399 399 39
	Dudley Road Hospital.	144	1	916	289 400 17 17 17 17 17 17 18 8 8 8 8 8 8 8 8 8
	Taylor Memorial Home.	4 (Incl. below)	20	20	11111 11111111
	Women's	102	1	124	giiii iiiiiiii
	Matemity.	118	1	20	18111 111211111
	Children's	111 51 66 20	1	248	26 8 8 26 114 114 114 114 114 114 114 114 114 11
	Nerve.	117 1	1	41	11117 11111111
	Skin.	5 6	- 1	51	11111 116111111
VOLUNTARY	Eλe	108	1	115	11121 11111111
LND	Ear and Throat.	1181	- 1	30	11811 11111111
NOL	Royal Cripples'.	1 1 8 8 1 1	1	306	11111 811111111
	,bnelbik	38	1	46	TITLE TITLETTE
	Moseley Hall.	2911	1	94	11111 11111111
	Queen's.	90 35 35	1	336	188 109 100 100 100 100 100 100 100 100 100
	· Verifie [11 1 2 3	1	64	11111 11111111
	General.	143 220 74 50	1	487	8 187 1 1 1 2 1 1 1 7 1
		111 1	1	:	
	IDS.	ents ::	1	:	Included in A. Gynaecology Ear, Nose and Throut Ophthalmic Neurological Neurological Neurological Sign Fractures Isnatures Infectious or Isolation Infectious or Isolation Infectious or Isolation Other Beds Other Beds
	No. of Beds.	Totals Actus Medical Surgical Special Departments Pay Beds	ICK	TOTAL	Included in A. Gynaecology Bat. Nose and Throut Ophthalmic Orthopaelic (excludin fractures) Fractures Acute Venereal Tuberculosis Tuberculosis Casualty Other Beds Other Beds Other Beds
	No.	s al I Dep	dic Si	To	rcluded in A. ynaccology at, Nove and phthalmic phthalmic phthalmic phthalmic phthalmic phthalmic cure vereres in cute Verereal affections or Is ubcrculosis ental & Ment assulty ther Beds ther Beds
	11111111	A. Totals Actric Medical Surgical Special De	CHRONIC SICK		Included in A. Gynaecology Matemity Matemity Ophthalmic Neurological Opthhalmic Neurological Outhopaedic (ex fractures Skin Skin Skin Mental & Mental Casualty Other Beds Other Beds
		4	-		a a a a a a a a a a a a a a a a a a a

VI. HOSPITAL SURVEY: PATIENTS ADMITTED VOLUNTARY

	Totals, Voluntary and Municipal.	65392	6568	71960	4959 4693 5987 509 509	903	1308	470 1641 2196 2630
	Heathfield Road Matemity Home.		1 1	715 7	18811:	11	4	- 1 - 2 227 2 Ante- natal
	Wake Green Road Matemity Home.	1313 7	1 15	1313	100111	11	1.1	338 Ante-A natal, n Prem b'ies. 86 m'th- ers'
	Winson Gn., Rubery & Hollymoor (Mental)		1 1	624 1	. 11111	1.1	1.1	1 624
	Erdington House,	111	1345	1345	11111	1.1	1.1	1.85 1 1
п	Birmingbam Infirmary.	1 100	- 2329 1	2929 1	11111	1.1	} 600	1111
	Witton Smallpox Langed	118	1 1	Conv. 20 2 S.F.	11111	1.1	11	8 1111
	Little Bromwich Hospital (Infectious).	1 1 1 4 1 1 0	1 1	4410	11111	11	1.1	410
	Coleshill Hall.	1 100	1 1	106	11111	1.1	1.1	106
PAL	Monyhull Colony.	115	1 1	151	11111	1.1	1.1	1211
MUNICIPAL	Salterley Grange Sanatorium,	170	1 1	170	11111	1.1	1-1	1120
MUI	Romsley Hill Sanatorium	1 108	1 1	301	11111	1.1	1.1	301
	West Heath Sanatorium.	1 1 5 5 5 5 1 1	1 1	282	11111	1.1	1.1	1 - 1 - 1
	Yardley Green Road Sanatorium.	1 188 1	1 1	888	11111	1.1	1.1	88 1 1 1
	Camegie Institute	¥ 1 1	1 1	4	2.1.1.1.1	1.1	1.1	1113
	Canwell Hall.	- 3 1 1	1 1	- 2	LITTE	1.1	1.1	1 1 1 25
	Selly Oak Infirmary.	1.1.1	1 5828	2828	11111	1.1	1.1	1111
	Selly Oak Hospital.	2582 6043 671	1 , 1 ,		671	1.1	1.1	1111
	Dadley Road Hospital	5420 4207 3244	1 1	12871 9296	1146	673	1.1	207 - 296 Slick Back Back 114 Deep Xray
	Taylor Memorial Home.	1.1.1	1 99	99	11111	1.1	1.1	1 1111
	Women's	2900	1 1	2900	2900	1.1	1.1	1-1111
	Matemity	1580	1 1	1580	1880	1.1	1.1	1 1111
	Children's		± 1	7151	3796 26	93	13	19 1111
	Nerve.	1 1 88	1 1	388	1 1 1 1 88	1.1	1-1	1 1111
	Skin.	3445	8 1	465	11111	1.1	165	1 1111
VOLUNTARY	Eke.	2042	1 - 1	2042	2042	1.1	1.1	1 1111
LND,	Est and Throat,	1334	1 1	1334	1334	1.1	1.1	1 1111
VOI	Royal Cripples'.		98 1	943	11111	943	1.1	1 1111
	.baslbilk		Inc. above 142	825	1.1.1.1.1	1.1	1.1	I IIII
	Moseley Hall.	25.2	1 1	994	1.1	1.1	1.1	Inc. above 249 466 (Den-(Conv) tal)
	Gneen,s'	1466 3197 1761	Inc. above 492	6424	361 212 807 130		e1	Inc. above 249 (Den- tal)
	Jagray.	LatiqsoH a	Continuation	1	lish	qeoH noi:	Continuat	
	General.	2014	8000	8532	552 - 50 68 121	230	178	1 1111
	90	111	1 1	1	11111	11	::	i iency : :
	No. of Patients admitted during 1935.	111	1 1	:	::: broat	Inding	::	Infectious or Isolation Tuberculosis Mental & Mental Deficiency Casualty Other Beds
	PATE DURE	111	ick :	TOTAL	Sy.	Orthopaedic (excluding fractures) Fractures	:-=	Infectious or Isolation Tuberculosis Mental & Mental Defi Casualty Other Beds
-	No. ol	uts cal cal	Beds NIC S	To	Included in A. Gynaecology Maternity Ear, Nose and Ophthalmic Neurological	Orthopaedic (ex- fractures) Fractures	Skin Ac. Venereal	tious al & I alty r Beds
	V V	Acute Medical Surgical Special	Pay Beds B. CHRONIC SICK		Included in A. Gynaecology Maternity Ear, Nose and Throat Ophthalmic Neurological	fra fra Fract	Skin Ac. V	Tube Ment Cassu Othe
4	111	4	ď					

35

VII. HOSPITAL SURVEY: OUTPATIENTS & CASUALTIES

MUNICIPAL

VOLUNTARY

1	Totals, Voluntary and Municipal,	121559	55820	27501	9175	\$ 5989	1024	127	5405	some inc.	ing above	3680	279675	1
1	Heathfield Road Matemity Home.	1	1.1	1.1	1.1	577	1	1.1	11	1		. 1	830	1
	Wake Green Road Maternity Home.	1	1.1	1-1	11	129	1	1.1	1.1	1		1	1811	1
-	Winson Gn., Rubery & Hollymoor (Mental)	. 1	11	1.1	11	1111	1	1.1	1.1	- 1	Pag.	1	1	
	Erdington House	1	11	1.1	1.1	1111	1	1.1	1.1	1	HI (4)	1	1	1
	Birmingham . Yasmana	1	1.1	1.1	1.1	1,1.1.1	1	1.1	11	1		1	1	
	Witton Smallpox JanqsoH	1	11	1.1	1.1	1111	1	1.1	1.1	- 1		- 1	1	
	Little Bromwich Hospital (Infections)	1	1.1	1.1	1.1	131.1.1	1	1.1	1.1	. 1		1	1	
1	Coleshill Hall.	1	11	1.1	1.1	1111	1	1.1	1.1			1	1	
	Monyhull Colony.	1	1.1	1.1.	1.1	1111	1	1.1	1.1			1	1	
	Salterley Grange Sanatorium.	î	1.1	1.1	1.1	1111	1	1.1	1.1	- 1		1	1	
	Romsley Hill Sanatorium.	1	1.1	1.1	1.1	1111	1	1.1	1.1	1		1	1	
	West Heath Sanatorium.	1	1.1	1.1	1.1	1.1.1.1	1	1.1	1.1	,		1	1	
	Anti-Tuberculosis Centre.	- 1	1.3	1.1	1.1	1111	1	1.13	1.1	1		3635	3635	
	Yardley Green Road Sanatorium,	1	1.1	1.1	11	1111	1	1.1	1.1	1		45	45	
	Carnegie Institute.	1	1.1	1.1	1.1	1111	1	1.1	1.1	- 1	-	The same	1	
	Canwell Hall.	i	1.1	1.1	1.1	1111	1	1.1	1.1	-	100	1	1	
	Selly Oak Infirmary.	1	1.1	1.1	1.1	1.1.1.1	1	1.1	1 1			1	1	
1	Selly Oak Hospital.	5050	1400	820	346	337	1	1.1	102	- 0077	-	,	13380	
	Dudley Road Hospital	23478	98318	_	308	1117	N-ray	101	1 1	8020			10	
	Taylor Memorial Home.	1	-11	1.1	1.15	1111	1	1.1	11	1	111		-	
	Women's	1	1.1	1.1	1.1	1155	1	1.1	11	1	111		4155	
	Matemity.	1	11	1.1	229	2049	1	1.1	11	1	608 1024	,	12186203213559 4155	
	Children's	1433	5973	771	255	1111	1	21	1 8		50 808	Speh def.	20321	
	Dental Hospital.	1	1.1	11	255	1111	1	1.1	1.1		1.1.1			
	Nerve.	1	.11	10	13.	1.1.1	11	1.1	1732	(Inc. in Neu.)	1.1.1		10625 49571 8939 1732	
	Sldin,	1	1.1	1.1	7303	1.111	Deep X-ry	- 1 1	1.1	1635	111	100	8939	
	g.ke-	24047	1.1	25524	11	111	1.1	1.1	1.1	1	111		1957	
VOLUNIARI	Ear and Throat.	1373	1.1	7364	11	111	1.1	11	11	2	111		1062	
TOT	Royal Cripples'.	1	11	111	11	111	1.1	1.1	5255		Cases		5255	
2	Midland.	156	470	203	596	238	13	13	98	200	47		2833	
	Moseley Hall.	1	1		11		1.1	11	1.1	1	111		1 1	
	Gneen,s.	18081	3228	970	1111	\$ 434	1.1	127	. 1	1	111		37118	
	Jaffray.	,		111	1.1		11	11		00	111		1 . 1	_
	General.	47931		1412	910	-	819	210	-	738	2570		1 109	-
	KEW S. OR	1		Throat	11	111	3368	::		tment	rcises		TOTAL dad18	
	UMBER OF N. UT-PATIENTS 'CASUALTIES DURING 1935	1	fedica	e and	11	la logy	s Dise	::	ical	d Trea	I Exer		Tor	
	NUMBER OF NEW OUT-PATIENTS OR "CASUALTIES" DURING 1935.	Casualties	OUT-PATHENTS General Medical	Ear, Nose and Throat	Skin Dental	Ante-natal Post-natal Gynaecology	Cancer	Diabetes	Neurological	Electrical Treatment	Massage Remedial Exercises Other		Luberculosis	
	I so.	Cas	3	Ey	Ski	G Pan	53	Di	. No	50	N N	. 8	1	13

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VIII. HOSPITAL SURVEY: OUTPATIENT ATTENDANCES

VOLUNTARY

MUNICIPAL

	37	
Heathfeld Road Matemity Home	1 1 1 1 1 1 1 253	2965
Wake Green Road Maternity Home.	452 4006	4458
Winson Gn., Rubery & Hollymoor Mental		1
Erdington House.	J 1111 1111111 1111 1 1 1	
Birmingham Aremingham	Clin.)	716
Voquem Smallpox Hospital		
Little Bromwich Hospital (Infections).		1
Colespill Hall.	THE THEFT CHAIL	1
У сону̀риП Союну.		ı
Salterley Grange Sanatorium,	T TELL TREET FOR THE TOTAL	1
Romsley Hill Sanatorium.	1 1011 (11111) - 1 11 1 1 1	1
West Heath Sanatorium.		6
Anti-Tuberculosis Centre	3465	14165
Yardley Green Road Sanatorium.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1676 34465
Carnegie Institute.		1
Canwell Hall.		,
Selly Oak Infirmary.	TILL PERFET TIL T T T	1
Selly Oak Hospital.	29638 8150 3836 4822 1402 1402 	8769
Dudley Road Hospital	82200 2 4328 5283	139704 78769
Home.		1
Taylor Memorial	ald a bilq a bo N	
Women's	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91389
Matemity.	11111 1991 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1903
Children's	SS087 10477 By and Onth.	104398
Dental Hospital	32370	32370
Nerve.	30350 19290 1 in Neur.	30350
Skin.	311011	77768
Eye.		01437
Ear and Throat.	1 1111 1111111 1 11111 1 1	18861
Royal Cripples'.	21616	18739 67721 41866 101437 89777 30350 32370 104398 19039 13895
.basibiM		8739
Moseley Hall.	Not applicable	1
Gneen,a:	210 2 28277 28277 29866	161696
Yearhel	aldsailqqs tok	- 16
General.	3444 103515	192298
		19
S AN NTS NTS 35.	Thro timen	
TOTAL ATTENDANCES OF CASUALTES AND OUT-PATIENTS DURING 1935.	Casualties General Medical General Surgical Ear, Nose and Throat Eye Dental Ante-natal Cynst-natal Cynst-natal Mental Neurological Orthoyaedic Neurological Neurological Unclassified Tuberculosis Tuberculosis	TOTAL
L AT ASUA UT-P	Casualties General Medica General Surgica Ear, Nose and Eye Skin Correlatal Cyanecology Children's Dise Cancer Neurological Neurological Remedial Exer Remedial Exer Tuberculosis	FOTA
Tora Or C	Casualties General M General M General S Ear, Nose Eye Dental Ante-nata Post-nata Cynaecode Children's Cancer Mental Neurologi Orthopae Elethopae Elethopae Remedial Unclassifi Tubercule	
	I DOUBLE SHOULD NOUNT PR	1

MUNICIPAL IX. HOSPITAL SURVEY: GENERAL DATA

VOLUNTARY

				:	38								
Totals, Voluntary and Municipal.	12703	11722	1		1	1	1	1	- 1	1	1		
Heathfield Road. Maternity Home.	27		_	1 3 8 1	1	1	1	1	1	1	1		
Wake Green Road Maternity Home.	69	37	=		- 1	1	1	1	1	1	1		
Winson Gn., Rubery & Hollymoor (Mental	2694	2694	1	657	1	1		1	1	1	1	1	
Erdington House.	1870		205		1	1	1	1	-	1	1	1	
Birmingham Infirmary.	920	878	-		1		,	1	1	1	1	,	
Witten Smallpox Hospital	8	1	1		1	1	1	1	1	1	1	1	
Little Bromwich Hospital (Infectious	592	468	39		61	64	-	-	64	1-	01	1	
Coleshill Hall.	904	382	365		1	1	1	1	- 1	1	1	1	
Monyhull Colony.	1243	1250	365		1	1	1	1	1	1	1		9
Salterley Grange Sanatorium,	89	88	611		1	1	-	1	i	1	1	1	-
Romsley Hill Sanatorium.	120	96	124		324	35	32	32	32	32	32	1	
West Heath Sanatorium.	130	=	131		1	1	1	1	1	1	1	1	
Yardley Green Road Sanatorium.	325	324	127		1	1	1	- 1	-	,	E	1	
Carnegie Institute.	10	2	24		1	1	1	-	1	-1	1	1	
Canwell Hall.	84	63	51		1	1	1	1	1	1	1	1	
Selly Oak Infirmary.	718	629	98		1	1	i	1	1	1	1	- 1	
Selly Oak Hospital.	562	487	8		1	1	,	1	1	1	1	-	
Dadley Road Hospital	916	742	38			10	===	22	15	6	Ξ	1	21
Taylor Memorial Home.	28	19	107		15	12	9	17	58	27	18	1	
Momen's	124	110	=		53	23	55	19	19	24	12	1	
Maternity.	20	8	7	THE P	27	=	27	22	=	15	13	1	
Children's	248	221	23		53	20	89	27	32	35	27		
Nerve.	7	88	35	113	27	34	31	36	32	34	32	1	
Skin.	35	59	25		1	88	34	45	38	99	9	1	
Eye.	115	85	15		1	1	1	1	1	13	13 (1935 only)	30 pro- pro-	
Est and Throat.	30	43	12		83	25	20	53	23	21	81	1	9
Royal Cripples'.	291	276	25		45	48	43	9	45	42	45	1	1
.bnelbiM	46	88	15	9 4 6	1	1	1	17	17	18	17		9
Moseley Hall,	8	78	8		22	13	15	13	8	17	15		
's,uəənő	325	292	17		98	23	23	25	26	53	75		
Jaffray.	- 1	1	1	1	1	1	1	1	1	1	ï	Ad. Ad.	
General.	472	414	17		\$ 20	1	i	1	1	00	75	See Jaff- A ray Hos	
×	- 2000	_	per	eds	:	:	1	:	:	:	1		
SUMMARY	Average No. of beds available during 1935	Average No. of occupied beds during 1935	Average length of stay per patient during 1935 (days)	Percentage of occupied beds used by patients heing out- side City during:—		1		:	:	:	1	Number of Recovery Beds at any Branch Hospital con- trolled by Main Hospital (excluding convalescent beds)	- 3
	beds	occup	of 1935	nts hi								overy Hosp, fain vales	
GENERAL DATA	0. of	o. of	ngth	used by patients his side Cify during:-	1930	1881	1935	933	1934	1935	Average of period	Reconstruction of Secons Secons	
RAL	ge No	se No	ge le	city City	-	-	-	-	-	-	ge of	any Bra trolled b (excludin	
ш	Table 1 and	W07126	WELL 2017	B 70							30	0 - 2 0	

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III. SANITARY CIRCUMSTANCES.

WATER SUPPLY.

I am informed by Mr. Broadley, Secretary to the Water Department, that work is still in progress on the extension of the third Main on the Elan Aqueduct, and the flow of water into Frankley and Bartley Reservoirs has been maintained at a rate a little in excess of the consumption in the area of supply.

At Frankley Pumping Station new boiler plant and steam turbines have been installed during the year for the augmentation of the supply which is pumped into the Northfield Zone. An extension of the Northfield Service Reservoir is in course of construction, to meet the demands for water in the higher districts, due to extensive building development.

The 24in, steel main from Frankley to Hagley Road has been continued during the year, and a further extension of this main has also been sanctioned as far as Dudley Road.

Very considerable extensions have been made in the smaller sizes of cast-iron mains of 12in, to 4in, inclusive, all of which are lined with concrete to prevent corrosion.

A new booster pumping plant has been installed at Kings Vale, to maintain an adequate supply of water during periods of heavy draught on the high ground supplied from the Warley Level Zone.

There has been no need to utilise the old standby sources of supply during the year, with the exception of the Longbridge Well.

The quality of the water supplied throughout the year has been satisfactory.

WELLS.

Routine bacteriological and chemical sampling of water from some 350 shallow wells supplying dwelling houses in the City has been continued throughout the year, and use of Section 62 of the Public Health Act, 1875, has been made in a number of cases where there has been evidence of pollution, to enforce the provision of a supply of water from the Corporation mains. In certain instances, however, by reason of general disrepair, the properties have been found appropriate for representation under the Housing Acts, while in others the likelihood of early demolition in connection with the development of new housing estates has meant that a request for the cleaning out of the well and the improvement of local conditions has saved unwarranted expense on the part of owners. The condition of the well water supply has come to be an important factor in considering the action to be taken under the Housing Acts with regard to single houses or small blocks of dwellings in the outer areas of the City.

RIVERS AND STREAMS.

The annual report of the Tame Basin Joint Committee sets out particulars of a number of extensions or improvements in sewage plants, making for greater cleanliness of the River Tame and its tributaries.

The question of the condition of the river below Castle Bromwich again receives consideration. It is pointed out that after leaving Castle Bromwich the River Tame flows for a distance of twenty-seven miles through an agricultural area to its confluence with the River Trent, and in its passage through this area, it receives the comparatively clean waters of the Rivers Blythe and Anker, and a large volume of highly purified effluent from the works of the Birmingham Tame and Rea District Drainage Board. It would naturally be expected that under these conditions the quality of the river would improve, but the reverse is the case, and this rather confirms the opinion that the deterioration in the quality of the river after leaving Castle Bromwich is due to the decomposition of the organic matter which is discharged into the streams in the built up area during storm conditions, and carried down stream and deposited in this section of the channel of the river.

The observations have been repeated during the past year on the 16th July and the 17th September, in accordance with the instructions of the Executive Committee, and again the results have shown a reasonably satisfactory condition at Castle Bromwich.

Attention is drawn to the spirit of co-operation shown by a number of trading concerns in applying measures of control to liquid trade waste likely to damage sewage purification or to be injurious to the river.

The following comments are made on developments in relation to Birmingham during 1936:-

"At the Minworth Works of the Birmingham Tame and Rea District Drainage Board, the fixed spray jet distributors on seven acres of bacterial filters have been replaced by travelling distributors, and the improvement effected by this work is equivalent to the addition of two acres of filters. A further series of humus separating tanks have also been completed and brought into operation.

"Good progress is being made with the work upon an important scheme for increasing the capacity of the Yardley Sewage Disposal Works, at an estimated cost of £149,000.

"The Engineer to the Board, Mr. H. C. Whitehead, has observed that the standard of purity of the effluent now discharged from the important Minworth site is the highest ever attained.

"Progress has continued to be made also with the work of remedying the pollution of the stream by discharges of trade refuse. Until recently, the Committee have operated only in that portion of the City situated within the watershed of the River Tame down to the confluence of the Hockley Brook, but the City Engineer and Surveyor (Mr. H. J. Manzoni) has now directed that the whole of the City shall be placed under the supervision of the Committee for the purpose of preventing pollution of the streams.

"The negotiations with various manufacturers have been chiefly with the object of obtaining the diversion of liquid trade waste to the sewers, but in one instance tanks are being constructed in which the liquid waste will be settled before being circulated for re-use in the process."

SEWERAGE.

The City Engineer and Surveyor informs me that new sewers were constructed during the year 1986 with a total mileage of 60.04.

The principal sewerage schemes completed during the year include the following:-

Chinn Brook Sewerage, Section 3. Undertaken to provide for house building developments in the area including Mill Pool Hill Farm and the Firs Estates.

West Heath Sewerage, Section 2. Construction of sewers to provide for development in the Rednal Road area.

Quinton Sewerage, Section 1 Part 1. Enlargement of the valley sewers and construction of branch sewers to provide for house building including Redhall Farm Estate.

The following schemes are now being carried out:-

Sheldon Sewerage. During the year work has been proceeding on this scheme which will provide for the drainage of the Sheldon area and allow of the abolition of numerous dumbwells.

West Heath Sewerage, Section 1. Construction of new valley sewers to provide for the development of the Ivy House and Northfield Estates.

Lea Valley and Kitts Green Sewerage, Section 1. Provision of new sewers to allow of the development of a large area as a Corporation Housing Estate. A number of dumbwells draining existing properties will be abolished.

With regard to the work authorised by the Birmingham Corporation (Rivers Improvement) Act 1929, progress has been made on the improvement of the River Rea between Lawley Street and Moseley Street (Contract 3), and the Contract for the enlargement of the first section of the Rea Main Sewer from Lawley Street to Macdonald Street is approaching completion,

	Year endi	ng 31st Dec	ember, 1936, F. W. Sewers, Lin. Yds,	S.W. Sewers. Lin. Yds.
Sewers laid by Contract	 ***		19,346	11,144
Sewers laid by Direct Labour	***		5,752	8,091
Sewers Reconstructed	 ***	***	7,131	2,608
Sewers laid by Private Enterprise			22,178	27,660
Sewers laid outside the City	 	***		1,783
			54,402	51,286
		Miles	30.91	29.13
		TOTA	IL.	60.04

CLOSET ACCOMMODATION AND SCAVENGING AND REFUSE DISPOSAL.

I am indebted to Mr. Codling, General Manager of the Salvage Department, for the following information:—

PROVISION OF DUSTBINS.

The Corporation possesses legal powers to require the installation of standard dustbins at all properties throughout the city, for the temporory storage of refuse pending its removal. Two types of standard bin are in use, one having a capacity of $3\frac{1}{2}$ cubic feet, and the other $2\frac{1}{3}$ cubic feet.

Dustbins are in general use throughout the entire city, with the exception of a comparatively few old properties where dry ashpits are existing.

A voluntary dustbin hire scheme is in operation, and at December 31st, 1936, 10,430 owners of property had entered the scheme, for the hire of 100,143 dustbins. The number of bins hired represents nearly 40 per cent. of the total number of bins in use throughout the city.

COLLECTION OF HOUSE REFUSE.

House refuse is normally collected at weekly intervals, except in the case of the central city area, where collection is made more frequently where necessary, and in certain cases, at large properties which include hotels, restaurants and cafes, a daily collection of refuse is provided.

The house refuse is largely collected by a fleet of 146 electric vehicles, petrol vehicles and horsedrawn transport also being employed.

During the year the Department purchased 12 new electric and 9 petrol vehicles.

All refuse collection vehicles put into commission for a number of years past have been provided with bodies specially designed to prevent the dissemination of dust during loading operations. The majority of the vehicles are of the side loading type; end loading, moving floor vehicles are also in operation, and it is probable that the use of this type will be extended.

CESSPOOLS AT DECEMBER 31ST, 1936.

There were 413 cesspools in the city receiving regular attention, serving 924 premises. During the year 240 cesspools have been abolished, consequent upon the provision of main sewer facilities, and 22 new cesspools have been constructed. Practically all these cesspools are situated on the outskirts of the city, and schemes for the construction of sewers have been approved by the City Council, which when completed will result in a further reduction in the number of these receptacles.

SANITARY PANS.

The Department is regularly emptying 488 sanitary pans, this number having been practically stationary for some years. None of these pans is attached to premises in the populous areas of the city.

PRIVY MIDDENS.

There are 131 privy middens in the city receiving regular attention, and during the year ended 31st December, 1936, 25 of these were demolished.

DISPOSAL OF REFUSE.

Practically the whole of the house and trade refuse produced in the city is now dealt with by means of separation and incineration at the five salvage and refuse disposal works of the Department. The refuse from the various city markets and abattoirs is also dealt with at the main Works of the Department at Montague Street, where an organic plant is installed for the purpose. The materials dealt with at this plant include condemned meat, fish, offal, vegetable refuse, etc., and the markets and abattoirs refuse treated is converted into fats, feeding meals and fertilisers.

SWIMMING BATHS AND POOLS.

I am informed by Mr. R. Hoggins, Chief Engineer to the Baths Department, that the following baths are maintained by the emptying and refilling process:—

Open-air Baths.

Cannon Hill Park Victoria Park (Small Heath)

Covered Baths.

Northwood Street Tiverton Road

With the above exceptions where the emptying and refilling process operates in conjunction with the use of chlorine, the water of the remaining swimming baths, totalling 20, is maintained by mechanical filtration and sterilised by chlorine or chloramine.

In consequence of a Memorandum issued in November, 1935, by the Ministry of Health, drawing the attention of local authorities to the desirability of close supervision of the condition of swimming baths in their areas, an extensive programme of sampling of water from all Corporation baths and of baths at Erdington and Shenley Fields Cottage Homes in the control of the Education Department, also at two schools in the control of the Home Office, and baths owned by a firm in the City for the benefit of employees, is carried out during the year. The results of the bacteriological examination of these samples have shown a good standard in the efficiency of the methods of sterilisation employed and in the care exercised in this direction.

SANITARY INSPECTION.

The work of the general sanitary inspectors has been carried on steadily and vigorously throughout the year, and the following statement indicates the main headings under which visits were paid:—

For systematic house inspe	ection		***		***			 4	46,626
For housing complaints				111		***		 ***	66,732
For infectious diseases				***	***	***		 	11,919
For inspection of courts								 	3,067
For inspection of manure	receptac	eles						 	1,154
For inspection of drainage			or rep	air)				 ***	4,165
For drain tests (smoke or								 	740
To common lodging house							***	 	1,368
To houses let in lodgings						***	111	 	8,815
To tents, vans and sheds					***	****		 	100
To offensive trade premise					1			 	377
To workshops and factorie								 	10,190
Under the Rats Order								 	3,356
To ice cream vendors								 	3,817
For miscellaneous complai						-	***	 	10,540
To see owners or agents								 	4,732
For other purposes		***						 	15,275
Unsuccessful visits				***	111	***		 	11,389
Chauceessiui visits	***	***	***	***	***	***	***	1000	
Total visits and re-visits									204,362

The total number of dwelling houses inspected was 13,929, of which 3,007 were examined in the course of the systematic house-to-house inspection of selected streets. The remaining houses inspected were largely those in respect of which a complaint had been received. Of the total of 13,929 examined, 13,039 were found to need repairs of some kind. During the year notices were served for the following work to be done:—

Houses to be disinfected	***		***						2,464
Repairs to houses	***				***				129,160
Houses to be cleansed by owner									4,259
Houses to be cleansed by tenant					-6.6.6	***		***	47
Houses to have better ventilation	n	***			***				748
Houses to have separate water su	pply		***				***	111	476
Houses to be provided with dam	p cours	se				***			389
Water or filth to be removed from	n cellar	rs		***	***		***		229
Spouting to be put in order	***	***			100	191			4,754
Water closets to be repaired or	re-cons	tructed		***			***		7,067
Water closets to be cleansed				***			155	111	1,834
Additional water closets to be pre	ovided							***	41
Wash houses or ashplaces to be i	repaired	d or lim	iewas	hed					3,058
Soilpipes to be repaired or remove	ed	***		***			***	***	252
Defective drains									1,693
Additional drains needed				444		***			451
Sanitary sinks to be provided	***				1	***		111	601
Sink bend pipes to be repaired				***	***	111	***	***	980
Yards to be paved or repaired						****		***	1,798
Accumulations of rubbish, manu-	re, etc.	, to be	rem	oved				***	293

Internal water supply has been provided to 395 houses and 4 wash houses which previously had to rely on a tap in the yard. This work has been carried out under the provisions of the Birmingham Corporation Act, 1929, under which the Corporation bears half the approved cost of the work. The amount expended in this way during 1936 was £1,142 17s. 7d.

Closely connected with an adequate water supply inside the house is the provision of a saitable and efficient sink. Last year 601 sanitary sinks were provided and 980 sinks were put in order.

In 4,806 cases the notice related to the cleansing, in 1,353 to the painting, and in 743 to the improvement of ventilation of premises.

A large amount of work was done in improving yards and outbuildings. Notices were issued for 41 additional water closets to be provided, for 1,834 closets to be cleansed and made free from obstruction, and for 7,067 to be repaired. Repairs or additions to the drainage were required in 2,360 cases, and the improvement of wash houses or ashplaces in 3,058 instances.

A staff of 6 men is engaged in cleansing some of the worst courts in the City, together with the water closets and ashplaces situated in them, subject to an agreed charge being paid by the owners of the houses. The total number of cleansings effected during the year was 5,783, 79 courts being dealt with weekly. In the course of this work a large number of water closets and drain traps were cleared of obstructions.

The total number of notices served during the year was 15,067, of which 9,840 were preliminary informal notices, and 5,227 were statutory notices.

The summonses taken out during the year were as follows:-

General Nuisance	es .			14
Inside Water Su	pply .		***	5
Common Lodging	g House			1
Houses let in loc	lgings			4
Excessive Smoke	Maral .			12
Shops Acts				199
Rent Acts				1
Dogs fouling fo	otpaths			12
Disobeying Magi		der		1
				-
				249

RATS AND MICE.

Throughout the year the provisions of the Rats and Mice Destruction Act have been systematically administered, special attention being paid to the matter during National Rat Week which was observed from November 2nd to November 7th.

Rat Week in Birmingham was observed by a general campaign. Some 2,000 circulars were issued to food-stores, warehouses and any premises where rats were suspected, and the occupiers were requested to make a special effort to exterminate rats and to keep a record of their activities.

The following is a summary:-

Premises which were rat-proofed		***		47
Premises where rat catchers were employed		***	***	66
Premises where baits and traps were used extensiv	ely	***	***	301
Premises which were repaired on account of rats				53
Number of rats known to have been destroyed		V		1.967

In addition, special steps were taken by various large industrial undertakings and Corporation Departments. The London, Midland and Scottish Railway Co. take constant action throughout the year. Fellows, Morton and Clayton, Ltd., Canal Carriers, although making a monthly effort, report that they have evidence that their special effort during Rat Week was highly successful. The Birmingham Canal and Navigation Co. also take constant action throughout the year, and report a number of rats found dead after Rat Week. The Great Western Railway Co. report having laid 260 poison baits and finding 14 dead rats. The Markets and Fairs Department laid 715 baits, of which 385 were taken and 12 rats were found dead. The Salvage Department report that in 5 Depots, 3,584 baits were taken and 39 dead rats were found, and also that at 4 Tips, 1,700 baits were laid and 100 dead rats were found. The Public Works Department report that in six districts during seven months previous to Rat Week, 15,159 baits were laid and 79 per cent. of these were taken. During Rat Week, 2,056 baits were laid in sewer man-holes, watercourses, etc., 70 per cent. were taken. Four months' efforts in one Depot where dogs and ferrets were used resulted in 136 rats being killed. The Grand Union Canal Co. used poison baits and 5 rats were found dead during Rat Week.

ERADICATION OF BED BUGS IN HOUSES.

The following information relating to bug-infested houses and belongings is set out in the form desired by the Ministry of Health:—

- Number of Council houses found to be infested—912.
- 2. Other houses found to be infested-1,714.
- 3. Council houses disinfested-912.
- 4. Other houses disinfested by Local Authority-80.
- The method of freeing infested houses from bed bugs is by the removal of architrave moulds and skirting boards and well spraying the rooms with an insecticide.
- The disinfestation of houses owned by the Local Authority and those indicated under item No.
 4 were carried out by the Local Authority.
- 7. The methods employed for ensuring that the belongings of tenants are free from vermin before removal to Council houses, is by means of hydro-cyanic gas disinfestation. The belongings are collected in specially constructed vans and taken to the Bacchus Road Disinfestation Station where they are treated with the gas and returned to the new address on the Corporation estates. The bedding and soft goods, etc., are not treated by gas but are passed through the steam disinfector.

SLUM CLEARANCE.

Disinfestation of Household Goods.

At Bacchus Road Disinfestation Station there was provided in May, 1936, a hydrocyanic acid gas plant for the disinfestation of household goods prior to their removal to a Corporation house. The plant is capable of dealing with the contents of 30 houses per week, but is at present dealing with the contents of 20 houses per week. Soft goods, such as pillows, mattresses, etc., continue to be dealt with by steam disinfestation.

A Bathing-Out Block has also been provided in order to allow the tenants of these houses or other persons to attend in order that they may be cleansed, their clothing being disinfested at the same time.

Up to December 31st, 1936, the number of sets of furniture disinfested was 659.

FACTORIES AND WORKSHOPS.

The visits paid under the Factory and Workshops Acts numbered 10,190. As a result of these visits notices were served as follows:—

Want of cleanliness	***	***	****	***	***			***	***	***	439
Want of ventilation	***		***	***	***	***	111	***	***		57
	***	***	***		***	***	100		0.000	***	2
Want of drainage of	floors	***	***	***	***			***		444	1
Other nuisances	***		***		444	***	***	***	***	***	355
Insufficient sanitary	accommoda	tion	***			***		***	****	***	27
Unsuitable or defective	ve sanitary a	ccomi	nodation	100			***	***			741
Sanitary accommodat	ion not sepa	rate f	or the se:	xes	***					***	5
Illegal occupation of	undergroun	d bak	ehouse		***	***	100000		***	***	0

Arrangements are in force co-ordinating the work of the Public Health Department in some directions with that of the office of H.M.Superintending Inspector of Factories for the Midland area. This has related chiefly to insufficient or defective sanitary accommodation, or to the investigation of nuisances arising in factories and affecting neighbouring premises. This form of co-operation has continued to prove of great value, preventing overlapping, duplication of action or on the other hand failure to take action, and at the same time removing risks of misunderstanding between two public departments engaged on closely allied work.

The number of workshops on the register is 2,427 and the visits for inspection paid to them numbered 3,408. In addition to these visits 2,947 were made to factories, 81 to workplaces, 2,888 to food preparation premises and 866 to out-workers premises.

SMOKE ABATEMENT.

Legislation Governing Smoke Emissions.

The Birmingham Corporation Consolidation Act, 1883, Section 30, and the Birmingham Corporation Act, 1922, Section 79, together with the City Bye-laws under Section 2 of the Public Health (Smoke Abatement) Act, 1926, are the principal enactments used in dealing with excessive smoke emissions.

Industrial Smoke: - Boiler Plants.

These may be grouped under five headings and consist of Water Tube, Lancashire, Cornish, Economic and Vertical Boilers. Observations show that where mechanical stokers have been fitted to these plants, the pollution of the atmosphere is considerably reduced, and in most cases continual visits to the works and the service of notices have not been necessary.

Several new boiler plants have been erected during the year and in each case where such mechanical stokers have been fitted no complaints have been received.

Industrial Smoke: - Metallurgical Furnaces.

These may also be grouped as follows:—Annealing, blueing, reheating, hardening and sheet mill furnaces. The term "muffle furnace" is used locally to cover any of the above metallurgical furnaces. The processes are varied and in most cases coal is the fuel used. The emission of dense black smoke from the chimneys serving these types of furnaces contributes the major portion of the industrial pollution, and it is to this class of chimney that most observations and attention is given.

During the year one firm has introduced pulverised fuel for a series of large reheating billet furnaces and by taking special designs in baffling, the furnaces are working with no smoke or dust emissions. Another firm situated in a residential area has reconstructed their annealing furnaces with special preheated air supply and furnace bars, and is now working with a minimum of smoke emissions. Certain of the Birmingham manufacturers can claim to be doing pioneer work towards the reduction of smoke from metallurgical furnaces.

Grit Emissions.

The emission of grit from industrial steam generating units is on the increase and all types of boilers are involved. In most cases it is from boilers where mechanical means have been employed to increase the air supply and accelerate combustion such as forced and induced draught apparatus, and unless special steps are taken the particles of the low grade fuel are carried up the chimney by the velocity of the flue gases and pass into the atmosphere in the form of grit and gritty particles.

Domestic Smoke.

The increased use of gas and electricity for heating and cooking, together with the public demand for the modern type of firegrate which is designed on engineering and labour saving principles by the manufacturers of to-day, are all factors helping to reduce domestic smoke pollution of the atmosphere. An increasingly important factor lies in the replacement of a high house density per acre in congested areas by a low density on the Municipal estates. A large part of the remedy for domestic smoke lies in the direction of better combustion in the firegrate.

Arrangements made with the City Surveyor's Department, whereby plans of new industrial buildings and chimney stacks deposited with them for approval are passed on to the Public Health Department for observations, are proving a valuable contribution towards smoke abatement. This enables adjustments in type of plant or in height of chimneys to be effected where necessary, by interview with the owners or depositors from the standpoint of smoke abatement before the fault has been committed.

Arrangements are in force whereby outside contractors doing Corporation work shall use anthracite or other smokeless fuel.

The following table sets out particulars of observations on chimneys other than those of private dwelling houses.

	1936	1935	1934	1933	1932
Total number of observations Reports to Public Health Committee on Excessive Smoke Emissions.	5,537	5,096	5,127	5,784	5,135
Black Smoke from Boiler Plants	69	104	71	88	77
,, ,, boilers and furnaces	13	12	8	12	8
,, ,, metallurgical furnaces	16	28	22	24	29
Excessive Grit Emissions	3	3	1	-	2
Excessive emissions other than black smoke	37	_	-	-	_
Total number of excessive emissions	138	147	102	124	116
Number of Prosecutions	12	14	4	4	6
Number of Convictions	12	14	4	4	6

Thi.ty-seven Preliminary Notices and one Statutory Notice have been served under the Public Health Act, 1875 and the Public Health (Smoke Abatement) Act 1926.

OFFENSIVE TRADES.

Premises registered for the carrying on of offensive trades in the City are classified as follows:

Tripe boiler					35
Rag and bone dea	ler		***	100	22
Blood boiler		***			1
Bone boiler	111				1
Fellmonger			***		2
Tanner				***	1
Soap boiler	***	***	***		2
Fat extractor			***	474	1
Gut scraper					3

One rag, bone and skin dealer and one tripe boiler have been added to the register during 1936, but no premises were removed from this register.

Apart from requests for the remedying of certain minor defects having relation to the cleanliness of the premises, which were readily complied with, no difficulties presented themselves in general in regard to the supervision of these premises. In one particular works, in respect of which serious and repeated complaints were received, the complaints were found to be justified. Action in regard to these was still proceeding at the end of the year.

COMMON LODGING HOUSES.

At the end of the year there were 24 registered Common Lodging Houses in the City, affording accommodation for 1,784 males and 71 females.

It is satisfactory to note that the unusually high standard of cleanliness and sanitation established in these premises in Birmingham continues to be maintained.

In one instance it was found necessary to resort to legal proceedings to remedy a contravention of the regulations governing the management of these houses.

No. of houses on register	y)			***	***	***	22		
No. of houses on register	(for fer	males o	only)				***		2
No of lodgers allowed		***							1,855
No. of day visits				011.	444		1463		1,097
No. of night visits	***					110		***	104
No. of Special Visits							***		153
Defects found									528
No. of summonses			2						1

HOUSES LET IN LODGINGS.

At the end of the year there were 512 houses let in lodgings on the Register, containing 3,253 rooms.

They were let as follows:-					
No. of rooms let as single rooms		***	 	***	1,166
No. of lets of two or more rooms together	r	***	 		816
Certified accommodation	411	***	 ***	***	7,627 persons

The visits and re-visits paid during the year numbered 7,151, an average of 14 per house. Notices were served for the following matters:—

Repairs ordered		***	1000			 	4,109
Overcrowding		***	****			 	12
Cleansing required	i	***				 	544
Provision for cook	ing		***			 	206
Provision for food	storage			***		 ***	475
Fire extinguishers		***				 ***	348
Lighting on stairs						 	134
Water male					***	 ***	44
Other defects			and.		***	 	193
Summonses issued						 	4

The standard of accommodation continues to be of very poor quality in a large number of houses let in lodgings, and the evil of subletting by persons unable or unwilling to live up to their responsibilities as landlords continues to be a serious factor in the housing difficulties of this unfortunate section of the community. A certain number of the worst houses have been represented, and as alternative housing accommodation becomes available some improvement is likely to follow.

TENTS, VANS, AND SHEDS.

The number of visits paid to these by the inspectors was 100. In a number of cases particulars were referred to the City Surveyor with a view to action under the Birmingham Corporation (General Powers) Act, 1929.

CANAL BOATS.

During the year 1936 the number of boats inspected on the canals within the City area was 1,162.

The 1,162 boats inspected were registered for the accommodation of 3,409 persons, and when inspected were found to be carrying 1,387 men, 787 women, and 682 children, a total of 2,856 persons, represented in terms of adults as 2,515.

The following table shows the number of boats inspected during the last five years, giving the number of persons whom the boats were registered to accommodate and the actual number of occupants at the time of inspection:—

	No. of boats	Registered to carry	Actua	lly occupied	by:	Total	Equivalent
Year.	inspected.	(adults).	Men.	Women.	Children.	occupying	to adults.
1932	1,147	3,558	1,498	766	655	2,919	2,591.5
1933	1,147	3,520	1,467	824	725	3,016	2,653.5
1934	1,143	3,448	1,410	817	711	2,938	2,582.5
1935	1,107	3,332.5	1,376	717	677	2,770	2,431.5
1936	1,162	3,409	1,387	787	682	2,856	2,515

Of the 1,162 boats inspected during the year it was found that 1,058 or 91.1 per cent. were in good condition and conforming with the Acts and Regulations, while in 104, or 8.9 per cent. of the total various contraventions were found. These are classified thus:—

		making total contraventions making total contraventions	***	33 68
	28	making total contraventions making total contraventions	***	84 36
Totals	104			221

Complaint Notes were duly served on the owners in all cases, 104 Complaint Notes being issued during 1936, and 42 were brought forward from 1935. 94 Notices were complied with during the year.

The following table shows the number and character of contraventions found and remedied during the year:—

Contraventions referring to:—				and	standing brought orward om 1935.	Found during 1936.	Remedied during 1936,	Carried forward to 1937
Cabins requiring repairs					16	41	58	4
Cabins requiring painting		***		***	16	50	51	15
Cabins leaking	***	***		***	3	14	16	1
Requiring lettering	***	***	***	***	2	55	39	18
Registration	***	***	***		5	29	25	9
Not producing certificate						15	11	4
Dirty cabins		***		***		6	4	2
Overcrowding		***				6	4	2
Separation of Sexes	***				-	3	2	1
Water vessels	2000					_	-	-
No pumps				***	-	1	1	-
Ventilation						1	-	1
No certificate identifying of	wner	of boar	t			-		
Cabins not habitable		***		***	-	-	A STATE OF THE PARTY OF	-
					42	221	206	57

It has not been necessary during the year to take any Court proceedings under the Canal Boat Acts or Regulations.

INFECTIOUS DISEASES.

One case of Diphtheria occurred during the year, the patient being a girl aged 16. The case was removed to hospital in this city and the boat of which she was an inmate taken out of commission until bed clothing, wearing apparel and cabins had been disinfected.

REGISTRATION OF BOATS.

There was a net increase of 23 boats registered at Birmingham during the year 1936, thus bringing the total up to 612.

The 612 boats on the register are classified as follows. It will be noticed that steam boats continue to remain at three:—

Ordinary boats	***				507
Motor boats	***	***	***		102
Steam boats		***	***	***	3
					612

SUPERVISION OF SHOPS.

There are some 27,000 shops in the City area and four inspectors are employed to carry out the work of inspection in relation to the under-mentioned Acts:—

Shops Acts, 1912-1934. Butchers' Closing Order, 1921. Hairdressers' and Barbers' Shops (Sunday Closing) Act, 1930. Shops (Sunday Trading Restriction) Act, 1936. Retail Meat Dealers' Shops (Sunday Closing) Act, 1936. The work of the inspectors is summarised as follows:-

Number of visits paid— General Inspection visits							10 707
	***	***	***	***			12,785
General Inspection revisits	***		***				6,055
Special visits regarding—							
Night closing of shops (1928 Act)	***		***		***		518
Half-day closing of shops (1912 Act)							497
Appointments re 1934 Shops Act							345
Number of streets patrolled by day (19.	12 Act)						1,177
Number of streets patrolled by night ()	1928 Act)						1,508
Sunday patrol (1980 Act)						***	283
Patrol (Butchers' Closing Order 1921)						***	514
The same of the sa							THE PERSON NAMED IN
							28,677

Towards the end of the year, sixteen visits were also paid to lending libraries to explain problems arising out of the Shops Act, 1936, due to come into force on 1st January, 1937.

Offences reported, etc.:-

Early Closing Notices not exhibited (1912 Act)	 1,777
Assistants Weekly Half-Holiday Notice not exhibited (1912 Act)	 1,118
Young Persons Notice not exhibited, Form H (1984 Act)	823
Young Persons Notice not exhibited, Form J (1934 Act)	58
Vounce Dorsons Notice not subilited Form P (1004 Act)	848
Not moved the costs for Chan Andreas (2004 A.)	
	 104
Not exhibiting Form K (seating accommodation) (1934 Act)	 900
Number of shops where overtime is carried on, Form G (1934 Act)	4
Exempted Trades Notices not exhibited	 1,023
Not closing to time (evenings) 1928 Act	 302
Not closing to time (half-day) 1912 Act	 133
Opening on Sundays (Hairdressers)	3
To provide W.C. accommodation (1934 Act)	42
To provide suitable ventilation	5
(B) 11 1/11 1 1/1	1
	 96
To provide accommodation for meals	 36
To provide washing facilities	 18
Mess Rooms to be cleansed	 41
Nuisances found	 155
Summonses issued	 204
Summonses withdrawn	 2
Summonses not served (occupiers left address)	5
and the second constitution for any contract and contract	

Proceedings were taken against 22 butchers for keeping their premises open after the hours permitted in the Closing Order (1921), and fines up to £10 imposed.

Many shopkeepers were prosecuted for the sale of prohibited articles at a time when the premises were legally open for the sale of exempted goods.

Proceedings under the 1928 Act were taken in 166 cases when fines ranging from 10/- to £2 were imposed.

There were 8 prosecutions under the 1912 Act for keeping shops open on the specified weekly half holiday, and for employing assistants on their prescribed half holiday. Fines of £1 and 10/were imposed in two cases, while in six the defendants paid costs.

Proceedings were also taken against one hairdresser for contravention of the Hairdressers and Barbers Shops (Sunday Closing) Act, 1930, and the defendant was fined £1.

MORTUARY-SUMMER LANE.

This building, provided by the generosity of Mr. and Mrs. T. Sidney Walker in 1931, and handed over to the Public Health and Maternity and Child Welfare Committee in 1934, has continued to serve the Summer Lane area as a means of providing a resting place to which the dead could be brought and remain until the time for burial, instead of being kept in small houses with living relatives. During the year 1936 the building was used for the temporary reception of the dead on 54 occasions.

IV. HOUSING.

NEW HOUSES.

Data received from the City Engineer and Surveyor show that 2,285 houses were built by the Municipality and 6,926 by private enterprise during 1936. The houses built by the Corporation are for the working class, while those built privately have generally been of a larger type. The houses built year by year since 1920 are shown in the subjoined statement.

				of houses erected private enterprise.	Corporation houses.	Total.
1920		*****		244	553	797
1921	-	*****	*****	426	970	1,396
1922			Caston	382	810	1,192
1923				556	1,621	2,177
1924		*****		1,201	1,992	3,193
1925				1,774	3,215	4,989
1926				1,775	5,159	6,934
1927		*****		2,445	4,007	6,452
1928	*****	to con		1,487	3,505	4,992
1929	*****			2,456	4,359	6,815
1930				1,738	6,715	8,453
1931				1,983	3,919	5,902
1932		*****		2,159	1,737	3,896
1933				3,028	2,029	5,057
1934				4,226	837	5,063
1935		*****		6,265	985	7,250
1936				6,926	2,285	9,211
	1	Total	*****	39,071	44,698	83,769
				A CONTRACTOR OF THE PARTY OF TH		

The wards in which new houses have been built in 1936 are indicated below:-

		Ward.				Houses erected by private enterprise.	Corporation Houses.	Total.
	1	St. Paul's				_	_	_
		St. Mary's				_		_
		Duddeston an	d Nechel	ls		2	-	2
Central Wards.	1	St. Bartholom	ew's			_		-
		St. Martin's a	nd Derite	end		1	-	1
		Market Hall	*****			2		: 2
		Ladywood	*****		*****	_	_	
		T	otal Cent	ral Wa	ards	5		5
	(Lozells				_		-
		Aston				_		_
		Washwood He				239	Name .	239
	1000	Saltley				8		8
		Small Heath		*****			-	-
Middle Ring.	4	Sparkbrook				4		4 2
	120.4	Balsall Heath			*****	2	(S) 500 (S)	2
	110.15	Edgbaston				102	(D) 775 O	102
	to the same of	Rotton Park			*****	m - have	20 - 2	
	-	All Saints'				-	- Too	
		Total 1	Middle R	ing		355		355

	(5)			Houses erected		
	Ward,			by private enterprise.	Corporation Houses.	Total.
	Soho	SECTION AND PROPERTY.	·	15	94	109
	Sandwell			73		73
	Handsworth			178	15 100 100	178
	Perry Barr			2,170	315	2,485
	Erdington			69	58	127
	Gravelly Hill			99	40	139
	Bromford	****	*****	218	4	222
	Stechford	- 11-11		530	510	1,040
uter Ring.	Yardley			350		350
	Acock's Green		*****	33	-	33
	Hall Green			449	332	781
	Sparkhill			46	100	146
	Moseley and K	ing's Heath		321	_ =	321
	Selly Oak			351	22	373
	King's Norton			237	272	509
	Northfield			808	147	955
	Harborne			619	391	1,010
	Total	Outer Ring		6,566	2,285	8,851
	Gran	d Total	****	6,926	2,285	9,211
					-	

The following statement shows the number of new houses built in the three groups of wards since 1920:—

Groups of Wards.				Hou By private enterprise.	ses erected Corporation.	Total.
Central Wards Middle Ring Outer Ring		****		42 3,249 35,780	413 5,960 38,325	455 9,209 74,105
City	1000		1000	39,071	44,698	83,769

No. OF EXISTING HOUSES.

From a return prepared by the Rates Department of the City Treasurer's Department, it appears that on April 1st, 1937, there were 255,865 dwelling houses and 18,156 shops with dwelling houses attached in the City. Some idea of the relative size of the dwelling houses may be gathered from the assessments for rating purposes which were as follows:—

Assessment,					No. o	f dwelling houses.
Up to and including £5		****		-		4,442
Over £5 and up to £10	*****					116,024
Over £10 and up to £15		*****		*****	1000	60,644
Over £15 and up to £20		*****				40,763
Over £20 and up to £50					*****	30,615
Over £50 and up to £100	*****) . mm .		*****	3,074
Over £100		*****		****		303

ACTION IN RESPECT OF INDIVIDUAL DWELLING HOUSES.

For detailed information as to the nature of the defects disclosed by inspection, reference should be made to page 43. The statement below, set out in the form required by the Ministry of Health, is in respect of the number of houses dealt with under the different statutory provisions relating to dwelling houses.

1.	Inspection of Dwelling-houses during the Year :-	
	(1) (a) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	13,929
	(b) Number of inspections made for the purpose	120,828
	(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidation Regulations, 1925	3,007
	(b) Number of inspections made for the purpose	46,626
	(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	2,981
	(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	13,039
9	REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES :-	
	Number of defective dwelling-houses rendered fit in consequence of informal action	
	by the Local Authority or their officers	9,405
3,	ACTION UNDER STATUTORY POWERS DURING THE YEAR :-	
	A.—Proceedings under sections 17, 18 and 23 of the Housing Act, 1930 :	
	(1) Number of dwelling-houses in respect of which notices were served requiring repairs	1,567
	(2) Number of dwelling-houses which were rendered fit after service of formal notices:	
	(a) By owners	1,239
	(b) By local authority in default of owners	110
	B.—Proceedings under Public Health Acts :—	
	(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	2,826
	(2) Number of dwelling-houses in which defects were remedied after service of formal notices :—	2,020
	(a) By owners	2,952
	(b) By local authority in default of owners	23
	(b) D) rotal authority in trials of orinto in the control of the c	
	C Proceedings under sections 19 and 21 of the Housing Act, 1930 :	
	(1) Number of dwelling-houses in respect of which Demolition Orders were made	328
	(2) Number of dwelling-houses demolished in pursuance of Demolition Orders	312
	(3) Number of dwelling-houses in respect of which official Representations were made	245
	(4) Number of dwelling-houses in respect of which undertakings under Sec. 19 (2) were accepted :	
	(a) Not to use in future for human habitation	40
	(b) To carry out works to render fit for human habitation	89
	(5) Number of dwelling-houses rendered fit for human habitation in pursuance of undertakings	29
	D. D. Jian and a certica 20 of the Hansing Act 1000	
	D.—Proceedings under section 20 of the Housing Act, 1930 :— (1) Number of parts of building or underground rooms in respect of which Closing Orders	
	were made	18
	(2) Number of parts of buildings or underground rooms in respect of which Closing Orders were determined, the part of building or room having been rendered fit	_
	(3) Number of parts of buildings or separate tenements in respect of which official Representations were made	12
4	Housing Act, 1935—Overcrowding.	
	A (1) Number of houses estimated to be overcrowded at the end of the year	8,373
	(2) Number of persons dwelling therein	52,282
	B.—Number of new cases of overcrowding reported during the year	267
	C(1) Number of cases of overcrowding known to have been relieved during the year	284
	(2) Number of persons concerned in such cases	1,781
		No figures available.

ACTION IN RESPECT OF CLEARANCE AREAS.

The following table shows briefly, as at December 31st, 1936, the position with regard to Orders made in respect of Clearance Areas.

Title of Order,	Date of Repre- sentation	Date of making of Order.	Date of Confirmation.	Number o houses in Clearance Area.
Montague Street C. O., No. 1	9/5/35	4/6/35	3/2/36	20
Montague Street C. O., No. 2	9/5/35	4/6/35	4/2/36	12
Derby Street C. O., No. 1	9/5/35 9/5/35	4/6/35	3/2/36 4/2/36	6
Great Barr Street C. O., No. 1	9/5/35	4/6/35	3/2/36	8
Great Barr Street C. O., No. 2	9/5/35	4/6/35	3/2/36	4
Great Barr Street C. O., No. 3	9/5/35	4/6/35	3/2/36	11
Great Barr Street C. O., No. 4	9/5/35	4/6/35	4/2/36	29
Belmont Passage C. O	9/5/35	4/6/35	4/2/36	40
Faudro Street C O	9/5/35 9/5/35	4/6/35	4/2/36 4/2/36	9
Little Barr Street C. O.	9/5/35	4/6/35	3/2/36	18
Palmer Street C. O.	9/5/35	4/6/35	4/2/36	64
Barr Street, Hockley C. O.	9/5/35	4/6/35	3/2/36	8
Cecil Street C. O., No. 1	11/5/35	10/12/35	2/7/36	30
Carver Street C. O., No. 1	20/5/35	23/7/35	14/4/36	18
Carver Street C. O., No. 2	20/5/35 20/5/35	23/7/35 23/7/35	14/4/36 14/4/36	36 72
Pope Street C. O., No. 1	20/5/35	23/7/35	14/4/36	8
Warstone Lane C. O., No. 1	20/5/35	23/7/35	14/4/36	9
Warstone Lane C. O., No. 2	20/5/35	23/7/35	14/4/36	11
Warstone Lane C. O., No. 3	20/5/35	23/7/35	14/4/36	137
New Bartholomew Street C. O., No. 1	23/5/35	23/7/35	14/4/36	7
New Bartholomew Street C. O., No. 2 Ormond Street C. O.	23/5/35 23/5/35	23/7/35	14/4/36	11
Moorsom Street C. O	23/5/35	23/7/35 23/7/35	14/4/36	46 32
Bath Street C. O.	16/7/35	10/12/35	2/7/36	39
Shadwell Street C. O	16/7/35	10/12/35	2/7/36	6
Nelson Street C. O	12/11/35	10/12/35	2/7/36	28
Sherbourne Road C. O.	12/11/35	10/12/35	2/7/36	11
Cheapside C. O	12/11/35 12/11/35	10/12/35 10/12/35	2/7/36	137
Moseley Street C. O., No. 2	12/11/35	7/4/36	2/7/36 Confirmation	10 18
Park Road, Hockley C. O	28/11/35	4/2/36	Orders not	6
Regent Place, St. Paul's C. O	28/11/35	4/2/36	received	8
Harding Street C. O	28/11/35	4/2/36	during 1936	9
Charles Henry Street C. O.	21/12/35	-	**	50
Lower Darwin Street C. O	21/12/35 21/12/35	-	**	38
Lomoard Street C. O	21/12/00	The same of the	12	In the little of the
		The state of the state of	A CONTRACTOR	
Moseley Road C. O.	2/1/36	7/4/36		14
Warwick Street C. O., No. 1	2/1/36	7/4/36	**	83
Warwick Street C. O., No. 2	2/1/36 18/2/36	7/4/36 7/4/36	**	27
High Street, Deritend	15/12/36	Considered	**	18
Court 7, Digbeth	15/12/36	during 1937	**	17
Crocketts Road, Handsworth	15/12/36	.,		12
Bordesley Street	15/12/36			29
Little Ann Street, No. 1	15/12/36			4
Little Ann Street, No. 2	15/12/36 15/12/36			6
Oxford Street, No. 1	15/12/36			10
Oxford Street, No. 2	15/12/36		and it is the	9
Barn Street, No. 1	15/12/36			30
Barn Street, No. 2	15/12/36			23
Barn Street, No. 3	15/12/36	.,	100	31
Barn Street, No. 4	15/12/36 15/12/36	"	**	21 94
Cardigan Street, No. 1	15/12/36			28
Cardigan Street, No. 3	15/12/36			6
Cardigan Street, No. 4	15/12/36			26
Pickford Street, No. 1	15/12/36			24
Pickford Street, No. 2	15/12/36			27
Pickford Street, No. 3	15/12/36			21
	THE SECTION OF			1000
TOTAL during 1936 : 24 Areas		4 Orders		568
Total to December 31st, 193	5: 101 Areas	98 Orders		2,965

As at the 31st December, official representations in respect of 6,035 houses had been made since the passing of the Housing Act 1930, 2,502 of these being in respect of individual houses or blocks of houses not large enough to merit area action. Rehousing operations are now proceeding normally and except in a few isolated instances the houses dealt with have been vacated without recourse to action in the Courts for possession.

No particular difficulties have been encountered in respect of areas affected by Clearance Orders. Owing to increasing familiarity on the part of property owners with the procedure of Ministry Inquiries, and to a more adequate appreciation of the issues to be determined at those Inquiries, the actual length of hearing has been considerably shortened and there is an increasing tendency to accept the evidence submitted by the Authority as correct in fact, although efforts are continually made to secure exclusion from Orders upon an offer by the owners to carry out a scheme of works. In some other instances owners have suggested that even though the houses affected might be unsuitable for occupation as dwellings they might be retained in use for storage purposes, without detriment to the City as a whole, or to the occupants of other houses in the immediate neighbourhood unaffected by Orders under the Housing Acts.

In general, clearance operations have been in respect of properties situated in a ring from one half to one mile from the City centre, but consequent on the powers made available by Section 13 of the Housing Act 1935, a full survey of a considerable area was carried through and it was found that clearance would be necessary on such a scale as to indicate that redevelopment within the meaning of the Act would probably be the most desirable method of dealing with the conditions in the area as a whole. This area is substantial in extent and an adequate scheme of redevelopment would have a marked effect on the planning and development of the City generally. In order that any such scheme, which would necessarily involve very considerable financial commitments, might be in the most desirable form, a very full examination of the possible alternative methods of treatment is now being carried out by the City Engineer and Surveyor and it is hoped that at some time during 1937 it may be possible to delineate the area and to indicate on broad lines the method by which redevelopment should subsequently be effected.

The Survey carried out in pursuance of Section 1 (1) of the Housing Act, 1935 was utilised as a means of ascertaining certain Housing information.

It was found that there were 38,773 houses either truly back-to-back or of a back-to-back type. Houses without an internal water supply within the structure of the actual dwelling house were found to be 13,650 in number, whilst 51,794 were found to be without separate closet accommodation.

The Housing Act 1936, which received the Royal Assent on the 31st July, 1936, and which will come into force on the 1st January, 1937, does not appear to contain any provisions which will disturb the continuity of clearance or redevelopment operations.

In cases where owners may not wish to incur expenditure on account of the suspected imminence of schemes leading to demolition, provision is made in Section 55 of the Act for a certificate of indemnity provided that an approved scheme of works of reconstruction and improvement is carried out to the satisfaction of the Authority. It is of interest to note that no formal applications have been received during the year.

In the Annual Report for 1935, mention was made of the establishment of a Standing Joint Housing Conference under the chairmanship of the Lord Mayor for the purpose of facilitating and expediting efforts in connection with housing matters, the Conference comprising members of the Committees mainly concerned, viz.: the Finance Committee, Public Works and Town Planning Committee, Estates Committee, and the Public Health and Maternity and Child Welfare Committee. As a result of the deliberations and recommendations of this Conference, the City Council at their meeting in April passed the following resolution:—"That until the necessary 2,636 houses can be provided to meet the needs arising out of the Orders for demolition already made in the Housing Acts, it is undesirable to represent further areas under Part I of the Housing Act 1930."

From April onwards rapid strides were made in rehousing families from clearance areas. The City Engineer and Surveyor, who had been in constant touch with representatives of the building trades, was able to estimate that an annual production of at least 2,000 houses could be maintained for the ensuing twelve months. In October I reported to the Authority that if the present rate of house building were to be maintained, the number of families awaiting other accommodation could

be rehoused before the date of the final operation of any Orders made subsequent to the date of my report. The Housing Conference thereupon advised the General Purposes Committee of this and other aspects of the situation and at the end of the year a draft resolution was placed on the agenda for the Council meeting to be held on the 5th January, 1937, as follows:—"Resolved that upon the report of the Standing Joint Housing Conference now submitted, the resolution passed on the 7th April, 1936, be and it is hereby rescinded."

At the time when clearance operations were suspended, formal orders had not been made in respect of three areas dealt with in the Annual Report for 1935. In anticipation of the resumption of clearance operations, further representations were forwarded to the Local Authority in December, and by resolution, in fact passed on January 5th, 1937, the City Council authorised the formal making of orders in respect of a total of 27 clearance areas, comprising 598 houses. Although clearance on a large scale could not be effected during the year, I found it necessary to submit official representations in respect of 245 individual houses found at the time of representation to be in such a state that action could not any longer be suspended. It seems likely that a rate of representation of 2,000 houses per annum will be capable of being maintained with a reasonable expectation of securing the necessary rehousing accommodation as and when required, and it is to be hoped that conditions in the building trade will allow for the building of houses additional to these in order to meet the need for other accommodation which will be rendered necessary by operations for the abatement of overcrowding.

OVERCROWDING.

The survey rendered necessary by the provisions of Section 1 of the Housing Act, 1935, was completed early during the year, and on March 30th a special report was issued dealing in extenso with the results of that survey so far as they related to the extent of overcrowding.

Of 222,647 families surveyed, 8,390, or 3.77 per cent. of the whole, were overcrowded on the standards of the Housing Acts. The majority of cases of overcrowding, as might be expected, were found in the central wards. The percentage of overcrowding varies from 7.5 to 10.3 in the central wards, 1.3 to 4.4 in the middle ring and 0.6 to 4.5 in the outer ring. It is of interest to note that 3.75 of the families in Corporation houses were recorded as overcrowded.

As required by the Housing Act, 1935, rooms normally used as living-rooms were reckoned as being rooms available for sleeping purposes. In accordance with the special request of the Public Health Committee, the available data were examined to obtain as close an estimate as was practicable of the overcrowding in the City had the living-room been excluded from consideration, and it was found that on this hypothetical standard some 30,212 families, or 13.5 per cent. of the whole, were overcrowded.

This report, after approval by the Public Health and Maternity and Child Welfare Committee, was submitted to the City Council together with reports from the Estates Committee in relation to the number of new houses required, and the Public Works and Town Planning Committee in relation to the proposals for the provision of new houses.

The City Council approved and adopted the various reports and accepted the recommendation that, as the first step in the programme towards the provision of the necessary houses, 1,000—1,500 four-bedroomed houses should be erected for accommodating overcrowded families of from 7 to 9 persons. An additional provision was made for later consideration of the re-housing of families of more than nine persons. The Council also requested the Minister to fix January 1st, 1938, as the Appointed Day under the terms of Section 3 of the Act.

Amongst the 284 cases of overcrowding mentioned on page 53 as having been dealt with during the year were a strictly limited number of cases dealt with on the grounds of extreme urgency, under arrangements made by the Estates Committee with the approval of the Standing Joint Housing Conference. In addition, a number of tuberculosis cases were referred to the Estates Department on account of the patient's ill-health, but these cases were not all in respect of persons living in over-crowded conditions. I would like to record my appreciation of the help given by the Estates Department in connection with the above items, particularly in view of the fact that no houses were built by the Authority during the year under the Housing Acts for purposes other than slum clearance.

V. INSPECTION AND SUPERVISION OF FOOD.

FOOD PREMISES.

Inspections of small retail food premises have been carried out by the sanitary inspectors under the provisions of Section 72 of the Public Health Act, 1925. Section 54 of the Birmingham Corporation Act, 1935, requiring the registration as "eating houses" of premises used mainly or substantially for the provision of food to members of the public for consumption on the premises became effective as from the 1st January, 1936, and during the year 600 premises were so registered. In 10 cases certain requirements were necessary before applications for registration could be recommended to the Public Health Committee for approval, but no difficulty was experienced in having these fulfilled. Particular attention has been paid to the provision of hoods and flues to gas cooking stoves where practicable, and to the provision of facilities for personal ablutions in juxta-position to sanitary accommodation for the use of kitchen staffs.

ICE-CREAM.

The registration of premises used for the manufacture or sale of ice-cream and of persons trading as manufacturers or vendors of or merchants or dealers in this commodity was required by Section 54 of the Birmingham Corporation Act, 1935, as from the 1st January, 1936, and the following table gives details of the registrations effected during the year. The responsibility for inspecting ice-cream premises has hitherto rested with the sanitary inspectors, but it has lately been found expedient to transfer this duty to the dairy inspectors.

Registration of premises for the manufacture and sale of ice-cream				1,301
Registration of premises for the sale of ice-cream	***	***	***	377
Registration of premises for the manufacture of ice-cream				4
Transfer registration of premises for the manufacture and sale of ice-crea	m	***		16
Transfer registration of premises for the sale of ice-cream		***		8
Transfer registration of premises for the manufacture of ice-cream	***			
Registration of persons as manufacturers and vendors of ice-cream		***	***	1,301
Registration of persons as vendors of ice-cream			***	318
Transfer registration of persons as manufacturers and vendors of ice-cre	am			8
Transfer registration of persons as vendors of ice-cream		***		-
Total registrations effected			***	3,301
Total transfer registrations effected	***	***	2.12	27

MILK AND DAIRIES ADMINISTRATION.

The greater part of the supply of milk for the City is obtained from sources lying within an area having a radius of 50 miles from Birmingham, and the total estimated quantity for liquid consumption is about 65,000 gallons per day. Daily supplies are also obtained from other parts of England and Wales and from Scotland. The quantity of milk produced within the City continues to diminish.

The Public Health Committee is responsible for all dairy premises in the City area and for the conditions under which milk is handled therein, and for the state of milk shops, while the Markets and Fairs Committee supervises all matters relating to the health of cows and the condition of cowsheds.

The effective work carried out by the dairy inspectors during 1935 has been continued during the past twelve months, and in the latter part of this year the investigation of certain practices in relation to reconstitution of milk was carried out by Dr. Kelly, Senior Assistant Medical Officer of Health. This investigation is not yet complete, and it will be more appropriate to deal with the matter fully in my report for 1937.

A table showing alterations in the register of purveyors of milk during 1936 and a survey of the work done by the inspectors follows. It will be observed that the public prefers, to an increasing degree, milk sold in bottles which are filled and sealed on registered dairy premises, and also that there has been an appreciable reduction in the number of retail purveyors on the register by reason of the fact that certain purveyors have amalgamated, while others have been bought out by larger firms. The action of these purveyors in amalgamating or giving up the milk trade has probably been influenced by the demand of the general public for more efficient and extensive service,

by some reduction in the margin of profits allowed to distributors by the Milk Marketing Board, and by the necessity for maintaining a higher level of efficiency in the control of dairy establishments, which has been placed upon the distributors by the Board and by this Department.

The following table shows the alterations in the register of purveyors of milk during 1936 and a summary of the work done by the inspectors during the year:—

							1935.	1936
Number of wholesale p	ourveyors	***		***			125	121
Number of retail purve	yors						1,007	976
Number of milkshops	*** ***						3,354	3,226
Number of bottled milk	shops						2,875	3,065
Number of bottled milk	purveyors						40	41
Total number of new re	egistrations issue						349	376
Total number of transfe					***		341	410
Total number of deletio							324	348
a contraction of the term	no from register			***	****		024	040
Number of Visits Paid.								
	Milkshops				***		6,166	
	Wholesale pury						174	
	Retail purveyo						707	
	To pasteurising			***	***		796	
	Other visits	, p					13	
	Unsuccessful v			***	***		638	
Defects Found.	Clisuccessiui v	isits			***	***	000	
	Limewashing n	ilkshop	or or	store i	require	d	60	
	Sanitary defect						110	
	Other defects						155	
	Notices sent						2	

MILK (SPECIAL DESIGNATIONS) ORDER, 1923.

MILK (SPECIAL DESIGNATIONS) ORDER, 1986.

On the 1st June of this year the Milk (Special Designations) Order, 1936, took the place of the previous Order. The principal changes occasioned thereby consist of the substitution of the designations "Tuberculin Tested" [or in the case of farm bottled milk "Tuberculin Tested (Certified)"] "Accredited", "Pasteurised" and "Tuberculin Tested (Pasteurised)" for the designations "Certified", "Grade A (Tuberculin Tested)", "Grade A", "Pasteurised" and "Grade A (Pasteurised)"; the devolution of the responsibility for issuing licences to produce "Tuberculin Tested" milk by the Ministry of Health to county and county borough councils; and the adoption, in the methylene blue reduction test, of an alternative standard for judging the condition of raw designated milks.

The table below shows the numbers of designated licences issued during the year, both under the old Order and the new. Licences granted under the Order of 1923 were allowed to remain in force until the end of 1936, and it will thus be noted that the total of licences issued was in excess of that for 1935.

LICENCES ISSUED UNDER THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.

					1935.	1936.
Producers of "Certified" milk	****	***		***	1	1
Dealers in "Certified" milk					14	15
Dealers in "Grade A (Tuberculin	Tested)	milk			28	23
Producers of "Grade A" milk	***				17	21
Dealers in "Grade A" milk					81	83
Producers of "Grade A (Pasteuri					2	1
Dealers in "Grade A (Pasteurised					7	4
Producers of "Pasteurised" milk					22	20
Dealers in "Pasteurised" milk					141	163
Supplementary Licences.						
"Certified" milk				***	3	3
"Grade A (Tubercu'in Tested)" :	milk			***	5	4
"Grade A" milk					14	13
"Pasteurised" milk			***		7	3

LICENCES ISSUED UNDER THE MILK (SPECIAL DESIGNATIONS) ORDER, 1936.

Producers of "Tuberculin Dealers in "Tuberculin T Producers of "Accredited Dealers in "Accredited"	'ested'' milk	 		2 6 1 4
Supplementary Licences. "Accredited" milk "Pasteurised" milk				2 2
Total licences issued dur			 1935	1936

The scheme of sampling of "Grade A" (later "Accredited") milk for Worcestershire County Council, having operated successfully during 1935, was continued in 1936.

The demand for designated milks in place of non-designated continues to gain ground, and this is reflected in some measure in an increase among the farmers in the City of those producing either "Tuberculin Tested" or "Accredited" milk.

The total number of samples taken during the year was 723. The practice of taking samples of Certified milk for the Ministry of Health was discontinued with the introduction of the new Order, so that 21 of these samples only were taken in 1936.

The total samples of Certified, Grade A (Tuberculin tested) and Grade A milks amounted to 342 and of these the percentages below the legal standards were 19.6, 25.8 and 18.1 respectively. Compared with the similar results obtained during 1935, these figures show improvement of the general standards.

The number of samples of Pasteurised milk was 381, of which 110 were submitted to the Phosphatase test. None of the samples contained over 100,000 organisms per c.c., while only 15 contained over 30,000 per c.c. Of the phosphatase results, however, 47 were found to be unsatisfactory. These figures show that the bacterial content of the milk reaching the City dairies is less than has hitherto been the case.

THE INSPECTION OF COWS AND COWSHEDS WITHIN THE CITY AREA.

(Summary of Report by Mr. Brennan De Vine, Chief Veterinary Officer).

At the end of 1986 there were 85 dairy farms housing 1,382 milch cows in 177 registered sheds, and 33 milch cows in 2 sheds pending registration.

For the purposes of the Milk and Dairies Order, 1926, the cows and cowsheds in City dairies are subject to regular veterinary inspection, and each cowshed has been visited at least once a month; during the year 2,444 visits were made.

The health and cleanliness of the cows were generally good, and constant attention has also been paid to the sanitary condition of the cowsheds.

Mastitis.—There were 77 cases of cows affected with acute catarrhal mastitis. In all of these cases the affected cows were kept isolated and their milk was prohibited from sale for human consumption.

Milk (Special Designations) Order, 1936.—The Minister of Health made a new Milk (Special Designations) Order, which came into force 1st June, 1936.

The new Order has two main objects—to transfer from the Minister to Local Authorities the duty of granting licences to the producers of certain graded milks and to improve and simplify the special designations of milk.

The designations under the old 1923 Order created confusion. In the new Order the grades are "Tuberculin Tested", "Accredited", and "Pasteurised". "Accredited" milk replaces "Grade A" milk and is subject to similar conditions.

The new Order provides that in respect of the production of "Accredited" milk every milch cow belonging to the herd shall be submitted to a clinical examination once in every three months, and that where an animal is certified as showing evidence of any disease which is likely to affect the milk injuriously, it shall be segregated from the rest of the herd, as the case may require, and the special designation shall not be used in relation to its milk.

At 21 farms within the City herds have been examined and the required certificates issued. Three farms within the City were producing "Tuberculin Tested" milk, Cowsheds.

It was necessary in sixteen cases to draw the attention of the owners to various conditions, including the dirty condition and defects in floor and other necessary alterations; dirty condition of cows, particularly their flanks; the poor condition of certain cows, and in one case smocks were requested to be supplied to milkers who were wearing dirty clothes.

Eight sheds have been structurally altered to comply with our requirements and added to the register, attention being paid to the internal construction as well as to lighting, drainage and ventilation.

Three other sheds have been enlarged and re-registered.

Forty-one sheds have been discontinued, the buildings having been mostly taken over for building purposes.

Two registered sheds, which were burnt out, are being rebuilt.

Two changes of occupancy have occurred and the register has been amended accordingly.

Detection of Tuberculosis in Milk Produced in City Dairies.—Bulk samples of milk are taken from each City dairy herd during the year as a check on the clinical examination of the dairy cows, and in addition individual samples are taken in suspected cases. 224 samples, of which 23 were infected, were taken as follows:—

157 67	Mixed samples Individual samples	 	Infected. 15 8
224	The state of the s		23

Twenty-six cows, affected with tuberculosis, were removed from City dairy herds during the year, 8 of which were found, on post-mortem examination, to be affected with tuberculosis of the udder. The other 18 cows all showed clinical evidence of tuberculosis.

EXAMINATION OF MILK COMING INTO THE CITY FROM OUTSIDE SOURCES FOR THE PRESENCE OF TUBERCLE BACILLI,

1,648 samples of mixed milk were taken at various City depots from churns, etc., sent in from outside sources:—

HOIH DURONG DOME	CALCE A						
Source.				Bulk Samples,	Results	of Exams, Infected,	Percentage Infected.
Derbyshire				9	6	3	33.3
Gloucestershire		***		34	33	1	2.9
Herefordshire				3	2	1	33.3
Leicestershire				60	52	8	13.3
Oxfordshire				1	1	_	-
Staffordshire				593	524	69	11.6
Shropshire				158	146	12	7.6
Warwickshire				642	586	56	8.7
Worcestershire				142	126	16	11.2
				1,642	1,476	166	10.1
			Pasteurised	6	6	AN AREST	
(diamet) Military			TOTAL	1,648	1,482	166	1 45
				1	-	1000000	1

Note.—The 6 samples of pasteurised milk were taken for the purpose of checking the efficient working of the pasteurisation plant at various depots.

Milk and Dairies (Consolidation) Act, 1915.

In connection with the 166 infected samples of mixed milk which had come into the City from outside sources, notification under the Milk and Dairies (Consolidation) Act, 1915, was sent in each case to the Medical Officer of Health of the County in which the cows from which the milk was obtained were kept, and a veterinary inspector from this department attended at the time the inspection of each of the herds was made by the local authority concerned.

The 166 infected bulk samp'es were taken from milk supplied from 164 farms and 2 milk depots. With regard to the 2 depot samples the source of supplies is being investigated, and in 1 case, owing to the milk being "bulked" the investigations involve between three and four hundred farms. The 164 farms were visited and 4,882 cows examined, and further milk samples (mixed and individual) taken from each herd by the local authorities concerned.

During the year reports have been received in 128 cases, showing that at farms visited 165 cows were discovered to be affected with tuberculosis and giving milk containing living tubercle bacilli; these cows were subsequently slaughtered.

Of the other 36 cases, at 19 farms it was ascertained that cows had either been sold out for slaughter or gone "dry" prior to the visit to the farm by the veterinary inspector. In 9 cases the source of infection was not traced; further control bulk samples of this milk have been taken and will be investigated in due course; and at the remaining eight farms the investigations were not completed at 31st December.

Notification Received from Outside Local Authorities-

Notifications from Medical Officer of Health, Staffordshire.

- That a sample of pasteurised milk, retailed by a City dairyman, had been found, on examination, to be infected. We investigated the source of supply of milk and took samples from all the senders to the particular depot. In three cases (two in Shropshire and one in Warwickshire) positive results were obtained. The Medical Officers of Health of the Local Authorities concerned were notified and in each case a cow was traced and dealt with under the Tuberculosis Order.
- 2. That a sample of milk produced by a City dairy had been found to be infected. We examined the herd and the result of the examination of the samples of milk showed one bulk and two individual samples to be negative, and one individual sample to be positive: the cow concerned was dealt with under the Tuberculosis Order.
- That a sample of milk which originated from a City depot had been found to be infected.
 Samples were taken from the source from which this milk came but were found to be negative.

Notifications from Medical Officer of Health, Smethwick:-

- 1. That two samples of milk which originated from a City depot had been found to be infected. Samples of milk were taken from all the senders to this particular depot and in two cases the result of the examination was positive. In the one case the County Medical Officer of Health for Staffordshire was notified and the herd inspected. Two individual and two bulk samples were taken, the examination of which showed them to be negative. It was ascertained, however, that four cows and been sold since the original sample was taken by us, and of these four cows it was reported that one had an indurated quarter and was in milk at the time the positive sample was taken, probably being the cause of the infection. In the other case the County Medical Officer of Health for Shropshire was advised and the herd was inspected, when one cow was taken and dealt with under the Tuberoulosis Order: the samples taken proved to be negative.
- That a sample of milk which originated from a City dairy had been found to be infected. The farm was visited by us, twenty-seven cows examined and four individual and three bulk samples taken. The result of the bacteriological examination showed all these samples to be free.

Notification from the Medical Officer of Health, Worcestershire:-

That tubercle bacilli had been found in the supply from a City depot. We took samples of
milk from the supplies of fifty-seven senders to this depot, and of these six proved to be
infected (two Staffordshire, four Warwickshire). The Medical Officers of Health of the
Local Authorities concerned were notified and in four cases one cow was taken at each farm
and dealt with under the Tuberculosis Order; in the other two cases two cows were taken
at each farm, making a total of eight cows dealt with under the Tuberculosis Order.

Comparative Return.—The following table shows the number of samples of milk sent in from outside sources taken during the past ten years and the percentage infected:—

Year	40000000	I med ni		*		Samples Taken	Samples Infected	Percentage Infected
1927			****			835	60	7.2
1928						974	91	9.3
1929						958	64	6.7
1930						1,699	105	6.2
1931			***			1,657	133	8.0
1932				***		1,086	97	8.9
1983	***	***				1,694	108	6.4
1934			***			1,699	109	6.4
1935			***			1,668	134	8.0
1936			***		***	1,648	166	10.1

Average for Period: 7.7

Note.—As at 31st December there were 2,236 senders of milk to Birmingham it would ensure a wider control of the milk supply if samples were taken from all senders at least once a year. This would necessitate taking an extra dozen samples a week.

Summary of Samples of Milk (Nos. 1924-3795) taken during 1936:

From Outside Dair	ies:—		No. taken	No. Infected
Pasteurized			6	-
Accredited			12	1
Tuberculin Tested			20	-
Non-designated			1,610	165
From City Dairies .	_			
Accredited			57	7
Non-designated			167	16
	TOT	AL	1,872	189

ERADICATION OF TUBERCULOSIS FROM DAIRY HERDS SUPPLYING MILK TO THE CITY.

Birmingham Corporation Scheme.—Under the Birmingham Corporation Scheme for the eradication of tuberculosis from herds supplying milk to the City, the necessary veterinary assistance and tuberculin are given free, subject to certain conditions being complied with. The primary object is that the milk supply of Birmingham shall be as free from infection of tuberculosis as possible.

The double intradermal test with synthetic tuberculin has been used for all herds tested by us during the year.

Eighteen herds, comprising 1,008 animals, were in the scheme on the 31st December last. From thirteen of these herds "Tuberculin Tested" milk is supplied to the City.

HERDS TESTED DURING 1936.

The testing of herds which come under the Scheme is carried out half-yearly and the follow-return gives the number of animals tested during the year:—

mg ret	urn give	s the		i animais test	ed during t	ne year:—
			Tested	Passed	Failed	Date of entering Scheme
	1		375	875	-	October 24th, 1907
	2		146	129	17	October 3rd, 1908
	3		20	16	4	May 26th, 1928
	4		56	55	1	November 22nd, 1907
	5		14	13	1	January 6th, 1908
	6		232	229	3	October 3rd, 1908
	7		93	93		October 4th, 1924
	8		77	77	_	September 26th, 1928
	9		131	125	6	February 7th, 1929
	10		113	112	1	November 10th, 1931
	11		94 -	94	10000	October 1st, 1932
	12		29	29		May 8th, 1932
	13		187	187	March 10	November 10th, 1932
	14	***	51	49	2	January 1st, 1934
	15		133	129	4	April 3rd, 1985
	16		92	72	20	May 11th, 1936
	17		51	40	11	September 23rd, 1936
	18		53	29	24	October 14th, 1936
	19		44	44		Discontinued
	20		48	46	2	Discontinued
	21		95	72	23	Discontinued
	22		61	59	2	Discontinued
	23	***	40	38	2	Discontinued
	24		160	81	79	Discontinued
	25		36	33	3	Discontinued
	26		40	38	2	Discontinued
	27	111	22	14	8	Discontinued
		***		2.2	-	200000000000000000000000000000000000000
			2,493	2,278	215	
			011	91.4%	8.6%	
Cows to	ested dur	ing 1	935 :	1 007	97	
			1 004			

37

1,774

1,787

97.9% 2.1% Note.—In the case of No. 19 the Owner stopped sending his milk to Birmingham. Nos. 20, 21, 22, 23, 24, 25, 26 and 27 did not continue in the Scheme owing to certificate of testing not being accepted by the Warwickshire County Council,

TESTING OF HERDS.

Since the introduction of the new Order of 1936 we have had twelve applications from farmers to test their herds, but we could not comply with their applications because Warwickshire will not issue licences in connection with our testing. These farmers were willing to submit their herds to our testing, providing the testing was done free; but are not willing for their herds to be tested if they have to pay for the testing. If the milk which they produce is for the supply of Birmingham, it would be an advantage to the County to have these herds included in the Birmingham Scheme for free testing and thus help to eradicate tuberculosis from the cattle in the County. It would appear to be against the interests of the agriculturalists in Warwickshire to refuse to grant licences for herds on which we are willing to carry out tests.

INSPECTION OF SLAUGHTERHOUSES, ETC.

The inspection of meat at the public abattoir is now carried out by four veterinary inspectors and six meat inspectors. A fifth veterinary inspector is responsible for the inspection of meat at Montague Street public slaughterhouse, bacon factories and private slaughterhouses in the centre of the City. For the purposes of inspection of shops, food premises and private slaughterhouses, the City is divided into six areas with a district inspector in charge of each. Another inspector is responsible for the inspection of foodstuffs in the fish, fruit and vegetable wholesale markets.

Owing to the growth of the work in the Department, particularly in relation to the inspection of meat, five additional meat inspectors were appointed during the year.

Veterinary examination is regularly made of all animals arriving in the City for slaughter, and of all animals in lairs awaiting slaughter, so that any diseased animal may be isolated and steps taken to prevent the spread of infection to other animals.

In addition to the public slaughterhouses, there were, at the 31st December, 87 private slaughterhouses in the City area:—

Registered slaughterhouses	 	48
Annually licensed slaughterhouses	****	39

These private slaughterhouses are regularly visited by the district inspectors.

Of the 87 private slaughterhouses in the City area, 25 are used for the slaughter of pigs only.

RETURN OF ANIMALS SLAUGHTERED.

Return of Animals slaughtered in the Public Slaughterhouses:

PUBLIC ABATTOIR, SHERLOCK STREET.

Deserte	0.1	Sheep and	-	
Beasts.	Calves,	Lambs.	Pigs.	Total.
48,973	90,134	258,283	94,409	491,799

PUBLIC SLAUGHTERHOUSE, MONTAGUE STREET.

AND DESCRIPTION OF THE PARTY OF		Sheep and		
Beasts	Calves	Lambs	Pigs	Total
10	24	52	6,744	6,830

RETURN OF ANIMALS SLAUGHTERED IN PRIVATE SLAUGHTERHOUSES.

Beasts	Calves	Sheep	Pigs	Total
1000	_	703	261,738	262,441
778	125	7,307	1,360	9,570
1,730	1,323	11,387	12,034	26,474
1,784	464	11,412	2,535	16,195
955	691	8,028	1,750	11,424
1,209	395	11,673	1,746	15,023
1,512	481	11,411	20,123	33,527
7,968	3,479	61,921	301,286	374,654
	778 1,730 1,784 955 1,209 1,512	778 125 1,730 1,323 1,784 464 955 691 1,209 395 1,512 481	703 778 125 7,307 1,730 1,323 11,387 1,784 464 11,412 955 691 8,028 1,209 395 11,673 1,512 481 11,411	- 703 261,738 778 125 7,307 1,360 1,730 1,323 11,387 12,034 1,784 464 11,412 2,535 955 691 8,028 1,750 1,209 395 11,673 1,746 1,512 481 11,411 20,123

TOTAL SLAUGHTERED IN CITY.

				Sheep and		
		Beasts	Calves	Lambs	Pigs	Total
1935		55,036	100,176	316,550	381,625	853,387
1936		56,951	93,637	320,256	402,439	873,283

Return showing the approximate amount and percentage of home-killed and imported meat sold in the City during the year:—

Beef and Veal Mutton		Maria Maria	 Home Killed tons. 18,401 6,005	1	nported tons. 3,751 2,804	Total tons, 32,152 18,809
			24,406	2	6,555	50,961
					Percentage ome Killed.	of total :-
Beef and Veal					57.2	42.8
Mutton		 *****			31.9	68.1

MONTAGUE STREET PIG MARKET.

This market is divided into an English side and an Imported side. During the year 122,397 pigs were passed through the English side and 30,915 pigs were passed through the Imported side, all these latter pigs being received from Ireland, as compared with 98,083 and 39,791 pigs respectively, during the year 1935. All these pigs were licensed from the market to various bacon factories and slaughterhouses.

In addition to those which passed through Montague Street Market, 15,409 pigs ex Ireland were received direct at various slaughterhouses and bacon factories in the City, as compared with 19,814 received in 1935.

WHOLESALE FRUIT, VEGETABLE AND FISH MARKETS.

Sorting Yard, Gloucester Street.—Containers which are found with a percentage of damaged fruit or vegetables, are sent to the sorting yard for unpacking and sorting. Only foodstuffs which are passed as fit by the inspectors are allowed to be offered for sale.

FISH MARKET.

Shell-fish.-81 samples of mussels were collected from consignments ex:-

Aber Annan Barmouth Bodorgan Conway Killorglin Kirkcudbright Kings Lynn Lytham Oranmore Parkgate Wells-next-the-Sea

47.9

52.1

and in 19 samples the bacteriological examination showed more than 100 B.Coli per c.c.

17 samples of oysters were collected from consignments ex:-

Brightlingsea Liverpool London Whitstable

and in 1 sample the bacteriological examination showed more than 100 B.Coli per c.c.

As a result of the bacteriological examination of samples taken from shell-fish ex Aber, Bodorgan and Wells-next-the-Sea, notice was given in each case under the Public Health (Shell-fish) Regulations, 1935, to the local authorities concerned.

Dee Estuary Shell-fish Order.—Under powers contained in the Birmingham Corporation Act of 1935, the Corporation made the above Order, which prohibits the sale of shell-fish taken from layings in the Dee Estuary.

REGISTRATION OF PREMISES USED FOR THE MANUFACTURE OF POTTED MEATS, ETC.

Food Preparation Premises and Shops.

On 31st December there were 190 food preparation premises on our register as follows:-

Cooked Meats, etc., M Sausage and Pork Pie			***	120 68
Jam Manufacturers	***	***	***	2
				190

The following shops in which food is sold were regularly visited:-

Beef and Pork	Butchers			1,135
Grocers		 		1,375
Green Grocers		 ***		1,371
Hucksters		 		5,007
Fish Friers		 		637
Fishmongers		 	16355	663
				10,188

INSPECTIONS.

The following is the number of visits paid by the Inspectors:-

Slaughterhouses					9,277
Food Preparation	Premis	es			8,040
455 4 45 5					4,749
Beef and Pork B	utchers				31,425
Grocers				444	3,817
Green Grocers ar	nd Fishr	nonge	rs		20,663
Hucksters	1				1,816
Ham and Bacon	Curers		***		4,383
Street Hawkers					24,243
Cold Stores					20,886
		1000			
				1	129,299

PROSECUTIONS.

Legal proceedings were taken in four cases under the Public Health Acts in respect of diseased and unfit meat exposed and deposited for sale:—

							Fine		
Diseased	meat	deposited	for	sale	***	1000	£5		
Diseased	meat	deposited	for	sale	***		£2	10s.	0d.
		exposed fo					£2	10s.	Od.
Diseased	meat	sold	300				Dis	misse	ed

Legal proceedings were taken in one case under the Public Health (Meat) Regulations against a person for conveying meat through the streets on a lorry without proper protection, and a fine of 20/- was imposed.

Notifications of Food Poisoning.—Several notifications of suspected food poisoning were received from the Medical Officer of Health during the year. In each case the source of the suspected food was investigated.

MEAT AND OTHER FOODS CERTIFIED AS UNFIT FOR HUMAN CONSUMPTION.

Number of Surrenders,	Class of Foodstuffs.			Tons.	Cwts.	Qrs.	Lbs.
14,131	Meat		 	630	14	1	19
741	Fish	*****	 	89	12	3	18
1,116	Poultry, Game, etc.		 	24	10	1	25
966	Fruit and Vegetables		 	738	18	2	1
162	Miscellaneous		 	5	16	0	8
17,116			-	1,489	12	1	15
			-				

All the unfit meat, fish, poultry and other foodstuffs are sent to the Salvage Department, Montague Street Depot.

Residual Value.—Compensation at the rate of 3/- per cwt. is paid to the owners of carcases and parts of carcases surrendered as unfit for human food, and also in respect of the carcases of pigs which died during transit.

During the year £1,434 4s. 6d. was paid in respect of the following carcases, etc.:-

					478	1	2
Pork	***	***		***	224	9	2
Mutton		111	***		22	2	1
Veal	111	111	***	***	13	16	1
Beef	***	***	***	3.13	217	C. 13	2

DISEASES OF ANIMALS ACTS. ANTHRAX.

During the year no cases of Anthrax occurred amongst persons residing in the City, but ten suspected cases were reported in anima's. Each case was inspected by one of the veterinary inspectors, and in all cases, on microscopic examination of the blood of the dead animals, the result was found to be negative.

BOVINE TUBERCULOSIS.

Tuberculosis Order, 1925.—26 cases of Tuberculosis in cattle coming within the above Order were dealt with. All the affected animals were slaughtered and compensation amounting to £142 2s 6d. paid to the owners.

PARROTS (PROHIBITION OF IMPORT) REGULATIONS 1930.

Under the provisions of this order three consignments of budgerigars were brought into the City and kept isolated for the necessary period of three months. The premises where the birds were kept were visited during the period of isolation.

VI. PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

GENERAL.

The mortality figures for 1936 are compared with the decennial averages in the statement below.

			Deaths in 1936.	Average 1926-1935.	Above or below the average.
			2	3	- 1
			0	0	
			39	88	- 49
	2000	and a	10	11	- 1
			107	103	+ 4
	200000		63	72	_ 9
		10.00	734	852	- 118
losis			71	119	- 48
		11111	136	341	- 205
	losis	llosis	losis	1936, 2 0 39 10 107 63 734 dlosis 71	1936, 1926-1935, 2 3 0 0 0 39 88 10 11 107 103 63 72 734 852 10sis 71 119

The prevalence of the notifiable diseases is shown in the next table:-

Disease.					Cases in 1936;	Average 1926-1935.	Above or below the average.
Enteric Fever			1	2000	28	41	— 13
Smallpox					0	6	- 6
Scarlet Fever					3981	2438	+1543
Diphtheria				3111	1142	1257	— 115
Erysipelas			*****		640	524	+ 116
Puerperal Fever			1000		96 .	100	- 4
Puerperal Pyrexia		-		900	168	Only notifiable	since 1926.
Ophthalmia Neona					812	478	+ 334
Pulmonary Tuberc					962	1276	- 314
Other Forms of Tu				*****	174	247	- 73
Acute Primary or				ia	1943	2618	- 675
Cerebro-Spinal Fey					38	19	+ 19
Acute Poliomyeliti		20102	-	*****	11	12	- 1
Polioencephalitis			1-000		1	1	
Encephalitis Letha	raica		10040		23	33	- 10
Malaria	agica				6	5	+ 1
Dysentery	ions		21100		22	18	1 1
Continued Fever			1000			0	+ 4
Continued Fever					0	0	

The scarlet fever cases exceeded the average by 1,543, those of diphtheria were below the average by 115. As indicated by the number of deaths in relation to this incidence scarlet fever was mild and diphtheria relatively severe in type.

The action taken with regard to puerperal fever, puerperal pyrexia and ophthalmia neonatorum is recorded in the Maternity and Child Welfare section of this Report. The increase in notifications of ophthalmia neonatorum is significant only of greater freedom in notifying many cases which are not severe and are not gonococcal in origin.

The following cases were reported through the Head Teachers of Elementary Schools and the Attendance Officers:—

				1936.	1935.	1934,
Measles				6,079	8,765	4,967
German Measles	 	4-1-11		332	5,192	985
Whooping Cough	 	*****		6,120	3,375	5,896
Chicken Pox	 2000	*****		6,230	5,584	5,437
Mumps	 		-	11,186	1,945	861

The cases were visited by Health Visitors and steps taken to exclude contacts from school where necessary.

ENTERIC FEVER.

During the year there were 44 cases notified as Enteric Fever, but further investigation revealed the fact that 16 of these were not suffering from the disease. Of the remaining 28 cases 20 were contracted outside the City, and the other 8 Birmingham cases are tabulated as follows:—

Typhoid Fever	***	***	***	2
Para Typhoid A	***	***	***	0
Para Typhoid B	***	***	***	6
Para Typhoid C	***		***	0

Two deaths occurred, one from Para Typhoid and one from Typhoid, the disease being discovered on a post-mortem being performed.

ENTERIC FEVER.

		nber of	Case rate per 1,000,	No. of deaths registered.	Death rate per 1,000.
1901-5	(Average)	544	.70	91	.12
1906-10	"	242	.30	51	.06
1911-15	.,,	90	.11	22	.03
1916-20	**	22	.02	5	.01
1921-25	,,	30	.03	4	.00
1926-30	,,	41	.04	5	.00
1931-35	,,	42	.04	2	.00
1927		40	.04	4	.00
1928		20	.02	3	.00
1929		31	.03	4	.00
1930		62	.06	9	.01
1931		54	.05	1	.00
1932		58	.06	2	.00
1933		30	.03	1	.00
1934		40	.04	6	.01
1935		28	.03	2	.00
1936		28	.03	2	.00

UNDULANT FEVER.

One case of Undulant Fever came to the notice of the Department during the year, but upon investigation it was found that in all probability the infection had been contracted abroad.

GLANDULAR FEVER.

No cases of this disease came to the notice of the Department during the year 1936.

SMALLPOX.

No cases of smallpox occurred in the City during the year. A few persons living in the City were contacts to known cases of smallpox in other areas. Accordingly they were visited, vaccination offered, and daily supervision of each was carried out for a period covering the interval of incubation of the disease.

VACCINATION.

Since April 1st, 1930, when the Local Government Act, 1929, came into force, the administration of the Vaccination Acts has been carried out by the Public Health Committee.

Below are tabulated statistics relating to this work for the current year, together with similar figures relating to each year since 1928. It will be seen that the percentage of successful vaccinations has risen slightly above the figure for 1935, though lower than that for previous years, while the slight increase of conscientious objectors experienced during recent years continued in 1936. Coupled with this latter fact, however, it has to be remembered that only four cases of smallpox have occurred in the City since 1928; so that there has been no strong incentive to have vaccination performed where parents are otherwise hesitant.

VACCINATION.

		1936	1935	1934	1933	1932	1931	1930	1929	1928
Births returned		16,501	16,340	15,703	17,063	17,832	17,866	17,590	17,786	17,954
Conscientious objectors,	per cent.	31.0	30.6	29.5	28.0	28.0	26.8	25.2	20.4	18.7
Died unvaccinated	*****	920	856	823	830	958	841	900	939	1,020
Successful Vaccinations (per cent. irvivors)		50.8	53.1	55.4	54.8	54.3	53.7	62.0	65.0
Insusceptible ,		0.5	0.4	0.5	0.9	1.0	1.1	1.2	0.5	0.7
Postponed by Medical Certificate ,		0.5	0.3	0.5	0.4	0.4	0.5	0.6	0.7	0.4
Removed ,		3.4	4.9	4.1	3.8	3.5	4.5	5.1	4.1	3.9
Lost sight of ,	. ,,	3.0	2.6	2.6	2.6	2.7	2.3	2.4	2.5	2.6
Still under notice ,	, ,,	8.1	8.7	8.0	7.6	7.9	9.2	10.5	9.1	7.7

MEASLES.

All cases notified to the Department through the schools have been systematically visited by health visitors, and advice as to nursing and general hygiene given where required.

During the year 491 cases were admitted to Little Bromwich Hospital for treatment.

Since the third quarter of 1930 immunisation methods, even though on a restricted scale, have been applied to the attenuation of infection or the prevention of the disease. It is known that the blood serum of a person who has previously suffered from measles, when given intramuscularly to contacts in suitable amount and at a suitable stage in the incubation period, will either prevent the disease occurring, or so modify it as to make the attack a mild one.

The supply of serum has been augmented by the very generous co-operation of the Birmingham Blood Transfusion Service, whose members have kindly come forward to act as donors.

This serum has been given to selected children under five years of age who had been in contact with measles and who were either also acutely ill with some other disease or were in a state of chronic ill-health. In most of the cases the aim was, not to prevent infection, but to attenuate it, thus obtaining life-long immunity without grave disturbance of health. Apart from cases referred by health visitors and general practitioners for such immunisation, some of the voluntary hospitals requested help with a view of preventing further cases occurring in their wards where there were children suffering from acute illnesses. Immunisation has been carried out on 269 children during the year with satisfactory results. The inoculations were for prevention in 98 cases and for attenuation in 171.

There were 39 deaths registered from the disease during the year.

The number of cases in past years, together with the mortality rate, are set out in the following table.

	Number of Cases*	Number of Deaths.	Death rate per 1, of population.
1901-5 (Average)	?	279	.36
1906-10 ,,	?	294	.36
1911-15 ,,	6,027 (1912	-1915) 419	.48
1916-20 ,,	10,773	168	.18
1921-25 ,,	6,831	121	.13
1926-30 ,,	7,464	100	.10
1931-35 ,,	7,504	76	.08
1927	9,032	129	.13
1928	5,030	41	.04
1929	9,764	196	.20
1930	6,512	58	.06
1931	9,745	177	.18
1932	5,033	52	.05
1933	9,011	77	.08
1934	4,967	23	.02
1935	8,765	52	.05
1936	6,079	39	.04

,000

From the following table it is evident that the death-rate from measles in the Central Wards is far in excess of that for the Middle or the Outer Ring of Wards, owing to the course of the disease and the liability to contract complications being directly influenced by overcrowding and insanitary conditions.

		Mes	asies de	eatn-rai	te per .	1,000.			
							1934.	1935.	1936,
Central Wards						***	.05	.11	.06
Middle Ring			***	***	***		.02	.03	.02
Outer Ring	***		***	***	***	***	.01	.04	.03
							1934.	1935.	1936.
							1934.	1935.	1936.
Under 1 year			***	***	***	***	4	11	8
1 and under 2 yes	ars		***				10	22	14
2 and under 5 yes	ars			***			4	13	12
5 years and over		***	***	***	15000	***	5	6	5

The

SCARLET FEVER.

23

52

39

The total number of notifications received during the year for this disease was 4,009. Of these 1,717 were treated in hospital and the remainder, 2,292, were treated at home.

After revision of diagnosis in those cases admitted to hospital, the total number of true cases of scarlet fever treated in hospital was 1,696 and those at home 2,285. Several cases admitted as diphtheria proved to be suffering from scarlet fever.

In addition, there were 18 cases treated in the City Hospital on behalf of other Authorities.

The death-rate of .01 per 1,000 for 1936 is about the same as the average death-rate for this disease for the past 10 years,

^{*}Partial notification only through schools, except for the years 1916-19.

SCARLET FEVER CASES AND DEATHS.

	Number of Cases, 1	Case-rate per ,000 population	Number of Deaths	Death-rate per 1,000 population	Case mortality per, cent
1901-05 (Average)	4,038	5.21	172	.22	4.26
1906-10 ,,	3,956	4.83	116	.14	2.93
1911-15 ,,	5,456	6.29	125	.14	2.29
1916-20 ,,	2,472	2.73	41	.04	1.66
1921-25 ,,	2,652	2.84	32	.03	1.21
1926-30 ,,	1,910	1.96	9	.01	0.47
1931-35 ,,	2,966	2.90	14	.01	0.47
1927	1,510	1.56	8	.01	0.53
1928	1,521	1.56	5	.01	0.33
1929	2,413	2.46	9	.01	0.37
1930	2,397	2.44	15	.02	0.63
1931	2,761	2.73	10	.01	0.36
1932	2,544	2.50	12	.01	0.47
1933	2,639	2.58	20	.02	0.76
1934	3,297	3.21	15	.01	0.45
1935	3,591	3.48	12	.01	0.88
1986	3,981	3.84	10	.01	0.25

The report on cases treated at the Infectious Diseases Hospital will be found on page 76.

WHOOPING COUGH.

Whooping cough caused 107 deaths during 1936. The following table gives the number of cases and deaths in previous years, and it will be seen that both the number of known cases and the deathrate was at a higher level than in 1935.

			Number of Cases*	Number of Deaths	per 1,000 Population.
	1901-5	(Average)	?	316	.41
	1906-10	,,	?	294	.36
	1911-15	. ,,	3,264 (191	12-1915) 213	.25
	1916-20	,,,	3,592	206	.23
	1921-25	,,	4,463	180	.19
	1926-30		4,443	119	.12
	1931-35	. ,,	4,130	87	.08
	1927		2,496	69	.07
	1928		6,463	163	.17
	1929		3,347	123	.18
	1930		5,012	110	.11
	1931		3,990	89	.09
	1932		5,248	131	.13
	1933		2,143	35	.08
	1934		5,896	115	.11
	1935		3,375	66	.06
	1936		6,120	107	.10
		•Par	rtial Notification thre	ough Schools.	
ges a	t death we	re as follo	ws:-		

Under 1 year 1 and under 2 years 2 and under 5 years Over 5 years	 		1932. 60 41 23 7	1933. 14 13 6 2	1934. 52 37 24 2	1935. 26 14 24 2	1936. 66 20 19 2
	T	otals	131	35	115	66	107

Thus 86 out of the 107 deaths occurred among children under two years of age.

Every case of whooping cough reported to the Department is visited, and advice given on hygienic measures. Where appropriate the services of a district nurse are supplied under an arrangement made with the District Nursing Association.

DIPHTHERIA.

The total number of cases notified was 1,603. Of these 1,519 were removed to the City Fever Hospital, the remainder (84) being nursed at home.

Revision of diagnosis took place in 478 of the hospital cases and 4 home cases, while 16 cases sent in as scarlet fever proved to be suffering from diphtheria.

After correction, the net number of cases of definite diphtheria belonging to the City was 1,142, of whom 1,062 were treated in hospital and 80 at home.

In addition, there were 101 cases treated in the City Hospital on behalf of other authorities.

DIPHTHERIA CASES AND DEATHS.

	CI	ses of inical htheria.	Case-rate per 1,000 of Population.	Deaths	Death-rate per 1,000 of Population.	Case Mortality per cent.
1901-05	(Average)	991	1.28	159	.20	16.0
1906-10	"	1,210	1.48	149	.18	12.3
1911-15	,,	1,125	1.30	155	.18	13.8
1916-20	,,	1,065	1.19	143	.16	13.4
1921-25	,,	1,651	1.76	109	.12	6.6
1926-30	**	1,642	1.69	84	.09	5.1
1931-35	,,	871	0.85	60	.06	6.9
1927		1,543	1.60	61	.06	4.0
1928		1,552	1.59	70	.07	4.5
1929		1,611	1.64	86	.09	5.3
1930		1,701	1.73	88	.09	5.2
1931		1,171	1.16	62	.06	5.3
1932		620	0.61	35	.03	5.6
1933		417	0.41	33	.03	7.9
1934		1,019	0.99	84	.08	8.2
1935		1,129	1.09	84	.08	7.4
1936		1,142	1.10	68	.06	5.5

The distribution over the City is indicated in the table below. From this it will be seen that the cases were more numerous in the Central Wards than in the Middle and Outer Ring.

	St. Paul's	-				2.28	
	St. Mary's					2.46	
	Duddeston and	Nech	nells			1.73	
Central Wards	₹ St. Bartholome	w's	-			1.22 > Averag	e 1.70
	St. Martin's an	d Der			-	2.30	
	Market Hall					1.06	
	Ladywood					0.85	
	(Lady nood	2000	***	****		0.00	
	[Lozells			(200)		1.71	
	Aston			*****		1.45	
	Washwood Hea	ath				0.49	
	Saltley		III DO	-		0.31	
Middle Ring	Small Heath			*****		0.27 > Averag	e 1.03
	Sparkbrook					0.80	
~	Balsall Heath			*****	CHILIP	1.10	
	Edgbaston				2000	0.77	
	Rotton Park		0.00	-		1.09	
	All Saints'		*****	*****		2.27	

	Soho			Tana Ca		1.04)
	Sandwell					0.57	
	Handsworth					0.56	belod from in my
	Perry Barr					1.12	
	Erdington					1.23	William Soll Smith
	Gravelly Hill					0.80	
	Bromford					1.33	
Outer Ring	₹ Stechford					0.72	Average 0.72
outer rung	Yardley			1000		0.84	Tricinge one
	Acocks Green		*****		31111	0.80	
	Hall Green	10000	*****			0.49	1
	Sparkhill	10000				0.82	
	Moseley and Ki	ing's	Heath			0.46	1013 000000
	Saller Oals	mg s	ricatii				the street of the street of
	Selly Oak		*****			0.41	Male and the Art of
	King's Norton	tores.		20004		0.28	
	Northfield			10111		0.69	
	L Harborne					0.11	J
	Whole City					1.10	

A report on the cases treated at the Infectious Diseases Hospital will be found on page 76.

DIPHTHERIA ANTI-TOXIN.

Diphtheria anti-toxin is distributed free of charge to medical practitioners for the treatment of their patients and can be obtained from the Public Health Department, the Bacteriological Laboratory, and 18 Police Stations.

IMMUNISATION AGAINST DIPHTHERIA.

The work of immunisation continues to make good progress, and 14,697 children were immunised through this department during 1936, together with 794 immunised by general practitioners.

There are now approximately 90,000 immunised children and adolescents in the City. The table below shows the various directions in which immunisation has been effected. In order to carry this out the Medical Officers concerned now spend 11 sessions a week on diphtheria immunisation, concentrating on the children under eight years of age, since these are the most susceptible to the disease.

			CHILDREN IMMUNISED.		
		Number of Immunisation Centres.	Completely immunised.	Incompletely immunised.	
Council House	41110	1	536	25	
Infant Welfare Centres		52	6,332	760	
Day Schools and Special Schools		161	7,500	390	
Residential Institutions and Residential Schools		20	329	_	
		416 TO 1412 1512			
Totals	000	234	14,697	1,175	
A Death Inn		and the second second			

Renewed proof of the value of immunisation has been afforded during the year. It is significant that in Birmingham no death from diphtheria has occurred in an immunised person since the work was started in 1925.

In order to encourage early immunisation, to stimulate the interest of parents and to show that the protective treatment is simple and not painful, a film has been taken at Little Bromwich Fever Hospital, two schools and an Infant Welfare Centre in the City, demonstrating the technique of immunisation at actual clinics. This film has been shown some 290 times.

DYSENTERY.

Twenty-three cases were notified during the year and on investigation 17 of these proved to be dysentery, being confirmed bacteriologically. Eight cases were due to B.Sonne, eight to Flexner's bacillus, and one to Morgan's bacillus.

FOOD POISONING.

Cases of food poisoning became compulsorily notifiable in January, 1986, and during the year some 604 such cases were notified to the Public Health Department. The vast majority were of a trivial nature, not calling for any specific action by the Department. In regard to the few remaining cases, the necessary action of tracing the infected food stuffs, etc., was carried out.

There were no deaths from this condition during the year under review.

ACUTE ANTERIOR POLIOMYELITIS.

Eleven cases of this disease were notified, 2 cases proving fatal. A review of the eleven cases some six months after the onset showed that one had completely recovered while improvement was shown in a further eight cases. Treatment is being continued in these eight cases.

POLIOMYELITIS.

Year.			Cases notified,	Died.	Complete recovery.	Some paralysis.
1917	*****	****	11	2	6	3
1918			4		2	2
1919		*****	14	1	6	7
1920		*****	1	7/1/2/10	nd	_
1921	terne"	*****	11	4	1	6
1922	*****	*****	6	-	1	5
1923		*****	33	3	1	29
1924			39	5	5	29
1925	*****	*****	11	3	5	3
1926		Trout .	38	3	3	32
1927		******	15	1	6	8*
1928		*****	6	1	1	4
1929	*****		6	_	1	5
1930	*****	*****	9	1	3	5
1931	*****	*****	3		1	2
1932	*****	*****	17	6	· ·	9
1933	*****	*****	10	3	ī	6
1934	*****		5	_	3	2
1935	*****	Bridge	9†		2	5
	*****		11	2	î	8
1936		One died	later of intercur		Two left district,	0

POLIO-ENCEPHALITIS.

One case of this disease was notified during the year, which proved fatal.

-1

ENCEPHALITIS LETHARGICA.

During the year 23 true cases of this disease came to light in the City, 21 proving fatal. The dates of onset were as follows:—

1922		***			***	1
1923						1
				1000		0
1924	***	***	***	***	1.11	3
1925	***	***	***	****	***	1
1926						1
	***		355	***	***	
1927		***	***	***	***	3
1928	***	***	***	***		1
1929		***		***		1
1930						1
1931						3
						1
1934				***	222	
1935				****	***	2
1936						3
		***		2414		
Unknown		***		***		1

The cases notified and deaths recorded in previous years have been as follows:-

Year.	Cases.	Deaths
1919	11	5
1920	18	7
1921	25	8
1922	12	4
1923	29	12
1924	282	44
1925	92	32
1926	89	36
1927	53	32
1928	41	22
1929	27	20
1930	10	7
1931	18	12
1932	23	19
1983	25	21
1984	12	9
1935	28	26
1936	23	21

CEREBO-SPINAL FEVER.

Forty-four cases were notified as cerebro-spinal meningitis during the year. Of these 38 were confirmed bacteriologically. In six cases the diagnosis was afterwards revised. Of the 38 actual cases 23 succumbed to the attack, giving a case mortality rate of 61 per cent.

A	ge distribution	1.				Cases.
Un	der 1 year					11
1	and under	3 years		***		6
3	and under	5 ,,				4
5	-	9 ,,	***		***	2
10	-	14 ,,	***	***	***	3
15	-	19 ,,	***	***	***	6
20 25		25 ,,	***	***	***	2
		29 ,,	***	***	***	2
30		85 ,,	****	***	***	1
35	years upwa	irus	810	***	0.00	L

The cases and deaths in previous years have been as follows:-

Year.	Cases notified.	Deaths.
1920	25	18
1921	9	7
1922	18	16
1923	4	2 8
1924	11	8
1925	7	6
1926	10	9
1927	12	10
1928	12	9
1929	15	15
1930	14	14
1931	25	21
1932	31	22
1933	26	20
1934	24	20
1935	17	15
1936	.88	23

REPORT ON THE CITY INFECTIOUS DISEASES HOSPITALS FOR THE YEAR 1936.

(By Dr. John McGarrity, Medical Superintendent).

PREFACE.

During the year, 4,540 patients were admitted to the wards compared with 4,410 during 1935; 4,506 during 1934; 3,595 during 1933; and 3,996 during 1932. The figure 4,540 includes 128 patients from outside the city, namely, 87 cases of diphtheria, 16 cases of scarlet fever and 25 miscellaneous cases.

The following tables give the number of cases of the most important infectious diseases and miscellaneous cases notified during the year and admitted to the hospital, and also the numbers who were discharged or died, as well as the numbers remaining in hospital at the end of the year. The figures in these tables have not been corrected as regards their true diagnosis. The revised diagnosis will be found under the different diseases later in the report.

It will be noted that the numbers of admissions of notified cases remain practically the same as last year in respect to diphtheria, scarlet fever, and the miscellaneous diseases. There was actually a slight decrease in admission of notified cases of diphtheria; (1,620 compared with 1,796) a slight increase of notified cases of scarlet fever; (1,785 compared with 1,575) and a slight increase in notified cases of the miscellaneous group (1,185 compared with 1,039). The miscellaneous cases included 147 cases of crysipelas; 464 cases of measles; and 384 cases of whooping cough. In continuation of the policy of recent years, these cases of measles and whooping cough were admitted in preference to mild cases of scarlet fever. They were practically all from homes where it was found impossible to give them adequate nursing and care.

The pressure on the special isolation wards, namely the bed isolation and cubicle wards, continues as usual to be severe. Before another year it is hoped that a beginning will be made with the erection of the additional accommodation so badly needed, namely the new cubicle wards, which will provide an extra 156 beds. This will give us altogether 748 beds for infectious cases in Little Bromwich Hospital apart from 60 beds at Witton Hospital reserved for cases of smallpox.

STATISTICS.

LITTLE BROMWICH.

(a) DIPHTHERIA. (Uncorrected for diagnosis).

In hospital on December 31st,	1935	306
Admitted during	1936	1,620
Discharged during	1936	1,565
Died during	1936	73
Remaining on December 31st,	1936	288

(b) SCARLET FEVER. (Uncorrected for diagnosis).

In hospital on December 31st,	1935	149
Admitted during	1936	1,735
Discharged during	1936	1,757
Died during	1936	9
Remaining on December 31st,	1936	118

(c) MISCELLANEOUS. (Uncorrected for diagnosis).

In hospital on December 31st,	1935	57
Admitted during	1936	1,185
Discharged during	1936	1,055
Died during	1936	104
Remaining on December 31st,	1936	83

(d) MISCELLANEOUS (Uncorrected for diagnosis).

Chickenpox				***	61
Dysentery				144	14
Enteric Fever				***	27
Erysipelas					147
Influenza	***				1
Measles	***	***	***		464
Meningitis			***	***	8
Miscellaneous	Observati	ons	***	***	12
		***	125	***	38
Pneumonia	***	***			1
Rubella		***	***	111	27
Vincent's Ang		***	***	***	1
Whooping Co	ugh	***	111	***	384
				Total	1,185

SCARLET FEVER.

1,785 patients were admitted during the year with a notified diagnosis of scarlet fever; of these, 82 cases were finally diagnosed as suffering from other complaints, as follows:—

No evidence of scar	let fe	ver		1110	22
Erythema	***				5
Tonsillitis		***	****	***	14
Measles		***			16
Rubella					6
Chickenpox					1
Nasal diphtheria					1
Common cold					1
Mumps					1
Sunburn					î
Broncho-pneumonia					1
Urticaria	***	441	***	****	1
Otitis and enteritis			***	***	
		***	100	223	1
Nephritis	***	111	***	111	1
Mastoiditis			***	41.0	1
Adenitis		***	***	411	1
Rhinitis		***	***		2
Catarrhal jaundice			***	100	
Lobar pneumonia		***	***	***	1
(died)					
Otorrhoea					2
Bronchitis					1
Enteritis					1 1
				Total	82
				A LOUIS	Com

Actually, 1,725 cases of true scarlet fever were treated in the wards during the year, of whom 61 were notified as diphtheria, 5 as rubella, 3 as measles, one as crysipelas, one as enteric fever, and one as miscellaneous observation.

46 patients had concurrent infections, as follows:-

Scarlet fever and concurrent chickenpox			11
Scarlet fever and concurrent whooping cough			10
Scarlet fever and concurrent measles			8
Scarlet fever and concurrent diphtheria			8
Scarlet fever and concurrent mumps	1		7
Scarlet fever and concurrent rubella			1
Scarlet fever and concurrent measles and diphtheria			1
			_
Total	1000	anin	46

The type of scarlet fever continues to be mild but there were:-

				Total	27
Toxic cases					8
Sub-septic cases		***			6
Septic cases	***			***	- 13
terer continues to	ne much	war	rucie a	vere -	

The number of deaths attributed to scarlet fever was 8, giving a hospital mortality of 0.46 per cent.

Details of fatal cases were as follows:-

	Age in years.	Cause of Death.
1.	37	Simple scarlet fever; pericarditis; empyema; nephritis.
2.	7	Simple scarlet fever; cerebellar tumour.
3.	19	Simple scarlet fever; lobar pneumonia.
4.	11/2	Simple scarlet fever; streptococcal laryngitis; intubation; tracheotomy.
5.	4	Toxic scarlet fever ; lobar pneumonia.
6.	21	Toxic scarlet fever ; broncho-pneumonia.
7.	6	Septic scarlet fever ; myocarditis.
8.	2	Simple scarlet fever ; broncho-pneumonia.

The principal complications are noted in two groups—(1) serum treated and (2) non-serum treated.

						treated	Non-serun 1,2	
Principal comp	plicati	ons.			Nos.	%	Nos.	%
Arthritis					8	1.79	15	1.17
Nephritis	1				2	0.45	6	0.47
Uraemia					_		1	0.08
Otitis media					36	8.05	50	3.91
Mastoid					12	2.68	5	0.39
Late albuminu					1	0.22	12	0.95
Late adenitis	900				56	12.53	121	9.47
Tonsillitis					3	0.67	14	1.10
Relapse					3	0.67	5	0.39
Rhinitis					10	2.24	16	1.25
Lobar pneumo		*****			3	0.67	MISI	_
Pericarditis		*****				HILLS TON	1	0.08
Empyema	1000		*****			HITTING 10	2	0.16
Endocarditis		1000	******			_100	7	0.55
Myocarditis		40014	11111	41116	1	0.22	3	0.23
Septicaemia	*****		41111		î	0.22	mel	
Enteritis	*****		41114		1	0.22	1	0.08
Appendicitis		41114			-	0.22	i	0.08
Conjunctivitis	*****	THE		*****	1	0.22	1	0.08
Peritonsillar al			*****	20.00	1	0.22	i	0.08
	DSCCS:		******		1	0.22		0.00
Laryngitis Phlebitis	-	*****	****		10 20 73	0.22	1	0.08
Broncho-pneur	*****				1	0.22	1	0.08
	HOHI		*****			0.22	1	0.08
Jaundice	*****	10000	*****		and the same			0.00
		Totals		-	141		265	- HITTER
								-

The cases which received serum were the more severe on admission.

Reactions following serum :--

g serum			% of serum treated,
Urticaria	111000	 122	27.29
Arthritis		 10	2.24
Pyrexia	OT	 2	0.45
Erythema		 1	0.22

Table showing age and sex of scarlet fever patients.

Ag	e group	0-5	5—10	10—15	15—25	25-45	Over 45	Totals
RECOVERED. Males Females		 163 143	315 388	163 197	96 136	35 65	5 11	777 940
DIED. Males Females		 1 2	1 1	=	2 _	<u></u>	=	4
TOTALS		 309	705	360	234	101	16	1725

Hospital mortality 0.46 per cent.

DIPHTHERIA.

1,620 patients were admitted to the hospital with a notified diagnosis of diphtheria. Of these, 510 required revision of diagnosis, and 17 were found to be suffering from diphtheria concurrently with another disease. Actually, 1,115 true cases of diphtheria were treated in the wards during the year, including two patients admitted with a notified diagnosis of whooping cough, one as measles, one as scarlet fever and one as miscellaneous observation.

Concurrent infections occurred as follows:-

Concurrent diphtheria and chickenpox Concurrent diphtheria and whooping cough			 1 -
	Total	 	 17

Revised diagnosis of 510 patients notified as diphtheria:-

Tonsillitis	***							222
Carrier of virulent d	iphtheri	a orga	nism					63
Scarlet fever								61
Laryngitis				***				37
Tonsillitis and carrie	er						***	34
No evidence of disea	se			1115	***			24
Quinsy				***	***			11
Measles								8
Rhinitis							***	7
Mumps								4
Common cold								3
Otorrhoea								3
Broncho-pneumonia								3
Stomatitis								2
Erythema nodosum		111						2
Whooping cough								2
Vincent's Angina						***	***	2
Laryngitis and otorr	hoea				***			2
Bronchitis								2
Mastoid								2
Lobar pneumonia								2 2
Tonsillitis and rhinit	tis							2
Miscellaneous		***					***	12
· · · · · · · · · · · · · · · · · · ·		200	199	-	10	2000	- 100	_
							Total	510

The miscellaneous group consisted of one case each of endocarditis, lymphocytosis, otorrhoea and bronchitis, asthma, laryngismus stridulus, gingivitis, pharyngitis, meningococcal carrier, acute poliomyelitis, conjunctivitis, agranulocytic angina, pericarditis.

Nine deaths occurred in the above revised cases; two from broncho-pneumonia; one from anterior poliomyelitis; one from agranulocytic angina; one from pericarditis; one from endocarditis; one from otorrhoea and bronchitis; one from acute streptococcal laryngitis and one from laryngismus stridulus.

Table showing types of diphtheria and mortality.

Type.					Total.	Died.	Mortality.
Faucial		*****	Tress		726	19	2.62%
Faucial and nasal	11111		111111	100.00	189	34	17.99%
Nasal			41110	2010	135	1	0.74%
Faucial and larynges	al				38	3	7.89%
Faucial, nasal and la	arvngea	1			6	2	33.33%
Laryngeal		1000	******	******	12	3	25.00%
Aural	*****				3	Charles and a series	11-11-11-11
Faucial, nasal and o		-			1	The same of the same	-
Faucial and vulvar.					1		-
Ocular	*****				2	The second of the	-
Faucial and ocular					1	-	-
Wound	*****	to and		*****	1	_	_
					-		-
Totals		*****			1115	62	5.56%
					-		

The case classified as dying from nasal diphtheria, was an infant suffering from marasmus.

22 patients died within 48 hours of admission to hospital and of these, 18 died within 24 hours of admission. Altogether, 62 patients died from diphtheria representing a hospital mortality of 5.56 per cent., which compares very favourably with last year's figure of 6.80 per cent. and the figure of 8.04 per cent for 1934.

Table showing case mortality in diphtheria according to the day of disease on which serum was first administered.

Day	of dis	ease or	which se	rum w	as given.		Total.	Died.	Mortality.
1st							50	2	4%
2nd							161	6	3.72%
3rd							212	15	7.11%
4th							187	17	9.09%
4th 5th							113	8	7.08%
6th da					troine		290	13	5.94%
Prophy	vlactic	dose	later tha				70		_
No ser							32	*1	3.13%
								20	5 500/
			Te	otals		2000	1115	62	5.56%

^{*}Died before serum could be administered.

One death, classified as having serum administered on the 1st day of disease was suffering from renal rickets as well as diphtheria. The other was a haemorrhagic diphtheria with widespread membrane and almost certainly infected several days earlier than the history indicated.

Analysis of causes of death in 62 cases in which diphtheria was either the cause of death or a contributory cause.

Circulatory collapse				50
Laryngeal obstruction with cardiac failure				4
Diphtheria and broncho-pneumonia				3
Late respiratory paralysis				1
Nasal diphtheria and marasmus				1
Faucial diphtheria and generalised tuberculos				1
Faucial diphtheria and chronic myeloid leuka	iemia			1
Faucial diphtheria and renal rickets				1
	Total		1000	62

Post-diphtheritic paralysis occurred as follows:-

					R	ecovered.	Died.
Palatal						96	3
Strabismus			 *****			14	-
Ciliary			*****			7	-
Facial			*****	******	*****	9	1
Pharyngeal			 	*****	The same of	10	3
Ptosis	*****			*****		1	-
Lower limbs			*****			27	
Neck	******	g1101	70.00			25	+1
Diaphragma	tic		****			1	11
			Totals			190	9
						1000	

The 190 paralyses noted above occurred in 111 patients, all of whom recovered, giving a paralysis rate of 10.55 per cent. as compared with 20.15 per cent. in 1935 and 20.7 per cent in 1934.

The 9 paralyses occurred in 5 fatal cases.

LARYNGEAL DIPHTHERIA.

Fifty-six cases of diphtheria had some laryngeal involvement and of these, 25 required operative interference for the relief of obstruction. In 13 cases, intubation alone was successful in relieving the obstruction, while four required a subsequent tracheotomy. One of these was intubated again three weeks later in order to dispense with a retained tracheotomy tube, a move which met with success. One is still in hospital with a retained tube.

In two cases tracheotomy was performed without a previous intubation, with success. The remaining six cases died; three obtained no relief from either intubation or tracheotomy; one was relieved by tracheotomy but died of broncho-pneumonia two days later with the tube still in situ; one who was suffering from severe faucial, nasal and laryngeal diphtheria was relieved by tracheotomy but died of cardiac failure, and one obtained relief with intubation for 24 hours but became obstructed again and was not relieved by tracheotomy.

REACTIONS FOLLOWING SERUM.

Amounto	serur	n admini	stered			0-8	or more 1,M,	I.V. or I.M.+I.V.	Totals.
Numbers			****		 	702	237	144	1083
Urticaria Rigor			-	-	 ****	19	30	38	87
Morbilliform	rash			****	 	1	-	Mare states	î
		Totals		-	 	20	30	39	89
						2.85%	12.66%	27.08%	8.23%

Table showing age and sex of diphtheria patients:-

The second secon	group.		0-5	5—10	10—15	15—25	25-45	Over 45	Totals.
RECOVERED. Males Females			158 126	245 245	60 74	28 74	12 26	1 4	504 549
DIED. Males Females			14 11	15 18	1 _	1 _	1 _	-	32 30
TOTALS		*****	309	523	135	103	39	6	1115

Hospital mortality 5.56 per cent.

WHOOPING COUGH.

In all, 384 patients were admitted with a notified diagnosis of whooping cough and of these, 29 required revision of diagnosis as follows:—

No evidence of whooping	cough					 12270	17
Broncho-pneumonia Bronchitis							1
The state of the s	******	*****					*
Mastoidectomy (before ad	mission	i) with	erysip	elas			1
Chickenpox							1
Measles	*****				-		3
Faucial and laryngeal dip	htheria	and all the					2
							-
				Total		 	29
							-

Actually, 361 true cases of whooping cough were treated in the wards including:-

Notified	as	diphtheria	***	 1000	2
Notified	as	measles	***	 ***	3
Notified	as	ervsipelas		 	1

Concurrent infections occurred as follows:-

Whooping cough and concurrent measles		 	 4
Whooping cough and concurrent diphtheria Whooping cough and concurrent late scarlet Whooping cough and concurrent mumps	fever	 	 1 2

These 9 cases are included in the whooping cough age-sex table.

The principal complications were as follows:-

	Ons			A STATE OF THE PARTY OF THE PAR			Patients recovered.	In Patients who died.
Broncho-pneumo	nia be	fore adm	iss	sion	more		37	26
Broncho-pneumo	onia aft	er admis	ssi	on		2000	9	7
Convulsions						20112	_	15
Enteritis before	admiss	ion .					10	1
Enteritis after ac	dmissio	n .			-		7	2
Otorrhoea before	admis	sion .				*****	20	2
Otorrhoea after :				*****		- Second	9	-
Bronchitis before	e admis	ssion .		1000			9	1
Bronchitis after	admiss	ion .					6	-
Marasmus					*****		6	11
Empyema			-		alone	*****	1	-
							-	DATE TO SE
				TOTALS			114	65

The 114 complications mentioned above occurred in 97 patients who recovered. Of the 361 patients found to be suffering from whooping cough 79 were complicated by pneumonia and of these 33 died. In 63 cases pneumonia was present on admission to hospital, and in 16 cases pneumonia developed whilst the patients were under treatment.

56 deaths occurred amongst whooping cough patients, the cause of death being :-

Whooping cough and broncho-pneumonia			-	 22
Whooping cough, broncho-pneumonia and o	convulsi	ons		 10
Whooping cough and convulsions	rest ex			 5
Whooping cough and marasmus				 9
Whooping cough	Mary			3
Whooping cough and enteritis				2
Whooping cough and bronchitis				 1
Whooping cough, measles and broncho-pneu	ımonia	2000		1
Whooping cough and pyelo nephritis				 1
Whooping cough and tuberculous meningitis	s	Desire.		1
Whooping cough and rickets				 1
and and		To	tal	 56

Table showing age and sex of whooping cough patients.

RECOVERED. Age	group.		0—1	1-2	2—3	3-4	4-5	5—10	10-20	Over 20	Totals.
Males Females			53 40	32 33	22 37	11 16	10 15	21 15	Ξ	=	149 156
DIED. Males Females	****	****	15 22	6 7	1	1 _	1 -	1 2	_	=	25 31
TOTALS	*****		130	78	60	28	26	39	-	_	361

Hospital mortality 15.5 per cent.

MEASLES.

In all, 464 patients were admitted with a notified diagnosis of measles and of these, 32 required revision of diagnosis, as follows:—

Erythema	*****	*****		 				8
No evidence of inf	ectiou	s disea	se			-		7
Miscellaneous			*****	 	-	-	Taois-	4
Scarlet fever				 	*****	*****		3
Rubella		10000	*****	 	-			3
Whooping cough	*****	*****		 			112	3
Bronchitis				 		222		2
Diphtheria	3		*****	 				1
Serum rash	*****			 	****	*****		1
					TOTAL			32

The miscellaneous group consists of one case each of scalds of chest, impetigo, abscess of neck and otorrhoea.

Actually, 465 true case of measles were treated in the wards including:-

Notified as scarlet fever	***		***	16
Notified as diphtheria	***	***	***	8
Notified as rubella	***	***		5
Notified as whooping cough Notified as observation		***	***	3
Notified as observation	***	***	***	1
			Total	33

Concurrent infections occurred as follows :-

Concurrent measles and whooping cough				18
Concurrent measles, mumps and whooping cough		-		1
Concurrent measles and diphtheria	-			6
Concurrent measles and scarlet fever (with nephritis)		-	-	1
	*****	*****		2
Concurrent measles and numps Concurrent measles and carrier of diphtheria bacilli	*****	*****	*****	1
concurrent measies and carrier or dipittheria bachin			*****	_
TOTAL			*****	29

These 29 cases are included in the measles age-sex table.

The principal complications were as follows:-

Onset,					tients covered,	In Patients who died.
Broncho-pneumonia on ad	lmission		****		79	27
Broncho-pneumonia after	admissi	on	*****		_	_
Otitis media on admission					25	-
Otitis media after admission	on	*****	-		33	1
Enteritis on admission				OUT	7	- 8
Enteritis after admission	*****	1000	10000	11118	1	_
Bronchitis				14	5	_
Laryngitis					6	3
						(2 intubated) (1 tracheotomy)
Convulsions		*****		******	1	1
Encephalitis		-		Nagi Indi	-	1
Appendix abscess				21000	1	a sheet and the man
Empyema			*****		_	2
Mastoiditis (with operation	n)	*****	10114		10	1
Lateral sinus thrombosis	-	*****	*****		_	1
Cancrum oris					1	
Destruction of one eye (pr	esent or	admissi	on)		1	-
Conjunctivitis					4	_
Septic thyroiditis					1	Military 573
A. C.		TOTALS		-	75	37
		TOTALO	*****			Aur II

The 175 complications mentioned above occurred in 142 patients who recovered.

Of the 465 patients found to be suffering from measles, 108 were complicated by pneumonia, and of these, 27 died. In 79 cases pneumonia was present on admission to hospital, and in no case did it develop after admission.

59 cases were complicated by otitis media and of these, one died. In 25 cases otorrhoea was present on admission to hospital, and in 33 cases it developed after admission.

31 deaths occurred among the measles patients, the cause of death being :-

					Total		*****	31
Measles; appendix abscer	SS .							1
Lateral sinus thrombosis	due to n	nastoid	suppu	ration	11111			1
Pulmonary tuberculosis				*****				1
Encephalitis					1014	-		1
Broncho-pneumonia and	marasmu	18						1
Broncho-pneumonia and	rickets .				1110			1
Broncho-pneumonia and	convulsio	ons						1
Broncho-pneumonia and	influenza	d meni	ingitis					1
Broncho-pneumonia and	empyem	a						2
Broncho-pneumonia and	laryngiti	S	*****		11116-			3
Broncho-pneumonia and	concurre	nt who	ooping	cough		The state of the s		3
Broncho-pneumonia								15

Table showing age and sex of measles patients.

Age gro	oup.		0-1	1-2	2-3	3-4	4-5	5—10	10-20	Over 20	Totals.
Males Females	****		19 13	43 42	46 31	29 19	25 22	65 52	2 6	5 15	234 200
DIED. Males Females	*****	10 may 20 mg	2 4	4 6	6 2			2 -	=	<u></u>	14 17
TOTALS			38	95	85	50	49	119	8	21	465

Hospital mortality 6.7 per cent.

ERYSIPELAS.

In all, 147 patients were admitted with a notified diagnosis of erysipelas, and of these, 12 required revision of diagnosis as follows:—

Cellulitis		4100	-		1000		4	
Simple scarlet fever			1101				1	
Erythema and septic spots							1	
Mumps; septic lesions-hands a	and feet						1	
Whooping cough and scalds of l	leg						1	
Septic wound-forehead		*****					1	
Cellulitis of face; alveolar absce	ess; loba	ar pne	eumonia				1 ((died)
Cellulitis; appendix wound; ca	rdiac fai	lure					1 ((died)
Cellulitis of face; chronic int toxaemia; myocarditis	erstitial	pne	umonia ;	bron	chiecta	asis;	1 ((died)
			Tot	al			12	

Actually, 136 cases of erysipelas were treated in the wards including one notified as whooping cough.

The site of erysipelas was as follows:--

Face					105
Face and scalp					11
Face, scalp, neck	and she	oulders			2
Face and neck					2
Limbs	+++			1	10
Mastoid wound			***	***	2
Ear	***	***			1
Generalised	***	***			3
			T	otal	136

The principal complications were as follows:-

Onset.			but frances	In Patients who recovered.	In Patients who died.
Broncho-pneumoni	a			THE PARK NAME AND PARKS.	1
Abscesses				15	
Tonsillitis		200		1	-
Cervical adenitis		***		2	_
Nephritis				2	
Otorrhoea	***	***		7	The property of the
Relapse	***	***	***	4	-
					A
			Total	s 31	1

31 complications occurred in 29 patients who recovered.

4 deaths occurred among the erysipelas patients:-

Generalised erysipelas				1
Carcinoma of tongue, secondaries in neck and facial	erysipe	las		1
Epithelioma tonsil; myocarditis and facial erysipela	ıs			1
Facial erysipelas and broncho-pneumonia				1
	T-4-1			-
	Total	111111	*****	4

Table showing age and sex of erysipelas patients.

	Age	group	0-5	5-10	10—15	15-25	25-45	Over 45	Totals
RECOVERED.									
Males Females			2 12	10 3	1 3	6 10	12 26	19 28	50 82
DIED.									
Males Females		*****	1 1	= = =	=	=	=	1 1	2 2
TOTALS		*****	16	13	4	16	38	49	136

Hospital mortality 2.9 per cent.

RUBELLA.

27 cases were admitted with a notified diagnosis of rubella and of these, 14 required revision of diagnosis, as follows:—

Measles	***	***	***	***		5
Scarlet fever		***	***	***	***	5
Erythema		***	***	***	***	2
Protein rash		***			***	5
						_
					Total	14

22 cases were finally diagnosed as rubella.

This figure was made up as follows:-

LANGE			Total	99
	as measles		 	3
	as scarlet fever	***	 	6
Notified	as rubella			13

All cases recovered without complications.

CHICKENPOX.

61 cases were admitted with a notified diagnosis of chickenpox and of these, 6 required revision of diagnosis as follows:—

			Total	6
No evidence of any disease		***	***	1
Cerebrospinal meningitis			***	1
Pyosalpinx	***		****	1
Septic spots	***			3

57 cases were finally diagnosed as chickenpox. This figure was made up of 55 cases notified as chickenpox; one notified as scarlet fever and one as whooping cough—all recovered.

Concurrent chickenpox and late scarlet fever-1.

ENTERIC FEVER.

27 patients were admitted with a notified diagnosis of enteric fever and of these, 13 required revision of diagnosis as follows:—

Dysentery (B. Morgan N	0. 1)		-1		tores of	Saret .		1	
Eosinophilia (probably de	ue to w	orms)		******				1	
Food rash		*****						1	
Lobar pneumonia		*****		0.000				3	(1 died)
No evidence of any disea	se	41111						2	200000000000000000000000000000000000000
Enteritis	411111							1	
Chronic bronchitis	******							1	
Toxic scarlet fever								1	
Cerebrospinal meningitis								1	(died)
Broncho-pneumonia	******							- 1	(
Dioneno phennoma	4100	10000						_	
					Total	23101	*****	13	

In 14 cases diagnosed as enteric fever the causative organism was B. Typhosus in 10, and B. Paratyphosus B. in 4—one of whom died.

Hospital mortality 7.1 per cent.

DYSENTERY.

14 cases were admitted with a notified diagnosis of dysentery and of these, 2 required revision to enteritis.

All cases recovered.

MUMPS.

38 cases were notified as suffering from mumps and of these, 13 required revision of diagnosis, as follows:--

No evidence of mumps					*****			6
Parotid abscess			10000					2
Submaxillary abscess		0.000	33.554					1
Tuberculous glands of ne	ck and	tubere	culous	periton	itis		*****	1 (died)
Otitis media		*****		20001				2
Retropharyngeal abscess		*****	****	*****		-		1
					Total		-	13

In all, 30 cases of mumps were treated in the wards including four notified as diphtheria and one as scarlet fever.

Concurrent infection occurred as follows:-

Concurrent mumps and rubella Concurrent mumps and scarlet fever Concurrent mumps and whooping cough	1 1 1
Total	- 3

2 children admitted with late mumps and found to be suffering from broncho-pneumonia, died: all other cases finally diagnosed as mumps recovered without complications.

INFLUENZA.

1 case admitted had an acute exacerbation and chronic nephritis-recovered.

MENINGITIS.

8 cases were admitted with a notified diagnosis of meningitis; 4 required revision as follows:-

No evidence of Cerebral irrita			ncuss	ion		1
Central nervoi Tonsillitis	ıs system	lesion				1
					Total	4

Actually, six cases of meningitis were treated in the wards including one notified as enteric fever and one as chickenpox.

Meningococcal		***	 4	(3 died)
Tuberculous	***		 1	(died)
Pneumococcal			 1	(died)

Hospital mortality 83.3 per cent.

PNEUMONIA.

1 case admitted as pneumonia, diagnosis confirmed and child recovered. Notified as enteric 3, one of whom died. Actual cases, 4.

Hospital mortality 25 per cent.

VINCENT'S ANGINA.

1 case admitted, diagnosis confirmed, was also suffering from lymphadenoma, and died.

MISCELLANEOUS OBSERVATIONS.

12 cases were admitted for observation; three were found to be suffering from infectious diseases and are included under these respective diseases, namely, 1 scarlet fever; 1 diphtheria and 1 measles. The diagnosis in the remaining nine was as follows:—

Scalds; haemolytic streptococcal carrier (scarlet fever contact).
Scalds; haemolytic streptococcal carrier.
Otorrhoea; scarlet fever and measles contact.
Herpes zoster.
Healthy child. Diphtheria contact.
Appendicitis and peritonitis. Measles contact.
Septic lesions—palms and soles.
Pemphigus.
Septic spots.

SUMMARY OF MISCELLANEOUS DISEASES.

Measles 464 32 33 465 31 6.7% Whooping Cough 384 29 4 359 56 15.6% Erysipelas 147 12 1 136 4 2.9% Chickenpox 61 6 2 57 — — Enteric Fever 27 13 — 14 1 7.1% Dysentery 14 2 — 12 — — Mumps 38 13 5 30 — — Meningitis 8 4 2 6 5 83.3% Pneumonia 1 — 3 4 1 25% Vincent's angina 1 — — 1 1 100% Influenza 1 — — 1 — — Miscellaneous conditions 12 3 — 9 — —
OPERATIONS.
Number,
Mastoidectomy 46
Tonsillectomy and adenoidectomy 36
Incisions 18
Sequestrotomy 7
Rib resection 5

ppendicectomy aparotomy	****					 	 4
lastoidectomy liscellaneous	and drai	inage co	erebellar	absc	ess	 	 1 8

The miscellaneous operations include minor incisions, removals of nails, application of plasters, etc.

The surgeons made 71 visits to perform the above operations, and they also attended on several occasions when no operations were performed.

LABORATORY.

The following table contains a summary of the work conducted in the hospital Laboratory during 1936:—

EXAMINATIONS.

Specimens for B. diphtheriae (Specimens for B. diphtheriae (Numbers. 1,127 2,858
Specimens for Haemolytic stre	ptocoo	cci (pos						44
Specimens for Haemolytic stre								50
Specimens for streptococci, bu	t not o	classifie	d as ab	ove			-	86
Blood, Widal tests	77	1000		****				41
Blood, Bacteriological examina Blood, Cell counts		*****	*****					15 52
Blood, Cen counts Blood, Haemoglobin estimatio	ne	*****	-		-	*****		4
Cerebro-spinal fluid, Bacteriolo		avamin	ations	11001		1000		61
Cerebro-spinal fluid, Chemical				11000		20018	- 111111	74
Bacteriological examination of				****				97
Agglutination tests								6
Examination of specimens for								21
Bacteriological examination of						-		4
Miscellaneous bacteriological e			*****			2002		87
Urines for albumen (positive)			here				-	797
Urines for albumen (negative)		4400		11111				491
Urines for deposits (micro)				11100				887
Urines for blood (positive)					100m	2000		77
Urines for blood (negative)					*****		44111	43
Urines for sugar (positive)		*****		*****				28
Urines for sugar (negative)								38
Urines for other examinations	*****				7000			142
				Total				7,130

STAFF PROPHYLAXIS.

All members of the nursing and domestic staff were Schick and Dick tested soon after entering the hospital.

copies.						
Number Schick and Dick tested						138
Schick positive						57
Acquired immunity after one month	113				2000	35
Acquired immunity after two months	-				Military 2005	5
Acquired immunity after extra treatment		*****		-	-	5
Still positive after extra treatment	*****				INTOT	1
Immunised—not Schick tested	*****	****				1
Developed diphtheria after being immunis	sed		20000			1
Left hospital before completion of immun	isation					7 2
Left hospital before commencing immunis	ation		men.		nin to the	2
						-
						57
						-
Dick positive						40
Dick positive				100000		
Acquired immunity after one month					Married L	29
Acquired immunity after two months	+1					1
Still positive after one month						2 2
Negative after general reaction to second						2
Negative after three doses only of scarlet		rophyla	actic		*****	1
Left hospital before commencing immunis						1
Left hospital before completion of immun	isation					3
Required extra treatment—still positive						1
			-			-
			Total			40
						-

INCIDENCE OF SICKNESS AMONGST THE STAFF.

					Nursing Staff,	Domestic Staff,	Total
Scarlet fever				00000	1		1
Measles					1	-	1
Vincent's Angin					1		1
Tonsillitis					50	3	53
Rheumatism					4		4
Sciatica	***				-	1	1
Metatarsalgia					3		3
Synovitis					1	_	1
Pneumonia					1	-	1
Influenza			***		2	2	4
Pleurisy		***			1		1
Asthma		***	***		-	2	2
Catarrhal Jaune	lice -		1000		1	OR THE SHARE	1
Adenitis			***	4400	1	-	1
Neuralgia					1	_	1
Quinsy	444	***	0.00		2		2
Hysteria			***	***	1		1
Otitis media		***			3	The second	3
Episcleritis					1	-	1
Debility				***	1	resides	1
Gastritis						1	1
Tonsillectomy			***	***	1		1
Enteritis				***	1	ollegen live of	1
Impetigo		***	***	·	1	1	2
Scabies	***		***	1000	3	adultate.	3
Eczema	***		***		1	-	1
Furunculosis			***		6		6
Popliteal Thron	nbosis		***	111	1	-	1
						75	_
			T	otals	90	10	100
					A Company of the Comp		-

The health of the staff was, on the whole, very satisfactory. There was a rise, however, in the incidence of tonsillitis among the nursing staff, being 50 as compared with 23 during 1935; 36 during 1934; 37 during 1933; and 67 during 1932. This increase is probably due to the fact that probationers are now joining the staff at 17 years of age. No fewer than 18 of the 50 cases of tonsillitis among the nurses were under 18 years of age and 30 of the 50 cases occurred within three months of arrival in hospital. January was the worst month with 12 cases of tonsillitis, and November the next with 11 cases.

DISINFECTION.

The following table gives details of the work done during 1936.

Houses disinfected after smallpox		***		***			0
Houses disinfected after scarlet fever							64
Houses disinfected after diphtheria	***						1,507
Houses disinfected after enteric fever		***				***	39
Houses disinfected after tuberculosis		***	***	***	***	***	1,712
Houses disinfected after cancer (on request)							71
Houses disinfected after miscellaneous diseases	(on	request)	***				325
Beds disinfected				1.5	***		4,289
Miscellaneous articles of clothing and beddin	g		***				38,563
Library books disinfected							1,821
Public conveyances disinfected			***			***	18

REPORT ON TUBERCULOSIS FOR THE YEAR 1936.

(By Dr. G. B. DIXON, Chief Clinical Tuberculosis Officer).

INSTITUTIONS AND ACCOMMODATION PROVIDED.

The Birmingham Public Health Committee maintains a single Dispensary which serves the whole of the City, and in addition it provides 613 beds for the treatment of pulmonary and other forms of tuberculosis, and for the observation and investigation of suspected cases of tuberculosis.

The Anti-Tuberculosis Centre is centrally situated in the city, and is open for five days during the week and on Saturdays for half the day. A small number of sessions is reserved for patients attending for treatment, supervision and observation, but most of the sessions are set apart for consultations and examinations. In addition, many consultations and examinations are undertaken at the homes of patients by members of the medical staff. The medical staff of the Dispensary, with one exception, is also responsible for the medical work of the various municipal sanatoria.

The beds for treatment, etc., are provided in four sanatoria and are allocated in the following way:-

YARDLEY GREEN	ROAD SANATORIUM:-	n. I.	The said	Court World
Adults: Mal	e: Observation Treatment, intermediate and advanced cases of all forms	Beds. 10	Total,	Grand Total
	of tuberculosis	156	166	
,, Fen	ale: Observation Treatment, early and intermediate cases of all forms of	8		
	tuberculosis	44	52	
Children:	Observation	18		
	Treatment, all stages and for all forms of tuberculosis	101	119	337
WEST HEATH SA	NATORIUM:-			
Adults: Mal	cases of pulmonary tubercu-			
Fen	losis	24 96		120
SALTERLEY GRAN Adults: Male	GE SANATORIUM:— e: Early cases of pulmonary tuber-			
Fen	culosis ale: Ditto	38 30		68
ROMSLEY HILL S.	ANATORIUM:-			
Adults: Male	Early and intermediate cases	57		
Fem	of pulmonary tuberculosis	31		88
				613
				-

The treatment undertaken in the different sanatoria includes lung collapse by means of artificial pneumothorax, treatment by gold salts, vaccines, etc., etc. In a small number of cases different forms of surgical treatment for patients suffering from pulmonary tuberculosis have been undertaken, such as thoracoplasty, and severance of adhesions in cases of artificial pneumothorax; the latter operation has given satisfactory results.

At the Yardley Green Road Sanatorium which is situated $3\frac{1}{2}$ miles from the centre of the city, the patients are housed in eight detached pavilion. The kitchens, domestic stores, nurses' home, and medical officers' apartments, are included in a large central building.

The cooking is undertaken in one kitchen, and food is conveyed to the four dining halls by means of electric trolleys.

The sanatorium buildings include an administrative office block, in which there is a laboratory. In addition, there are occupational therapy shops, a schoolroom, and three recreation halls, a department for X-ray work, and a section for artificial light treatment, which is used both for in-patients and out-patients. A school-room; a recreation hall, divided into two parts for women and children; a new pavilion for non-pulmonary cases of tuberculosis; a surgical block including a theatre and recovery rooms, and a new mortuary have been completed, or are approaching completion.

The clinical blocks at West Heath Sanatorium, which is situated 8 miles from the centre of the city, consist of one pavilion for male cases and four pavilions for female cases, two of which have recently been re-constructed and fitted with large verandahs. There has recently been built a rest room for female patients with chronic disease, who are infective and cannot be properly isolated at home. Many of them remain in the West Heath Sanatorium hospital for prolonged periods. In addition there is a laboratory, and an occupational therapy shop.

Romsley Hill Sanatorium, which is situated 12 miles from the centre of the city, is a two storey building, which provides a number of cubicles for one, two, three, four and six beds. There are also several wards for ten and eleven beds. In addition, there are two recreation rooms, one for men and one for women, and the sanatorium has two occupational therapy shops, and a laboratory.

Salterley Grange Sanatorium, situated in the Cotswolds, 40 miles from the centre of the city, consists of a large administrative block containing residential quarters for the staff, and in addition, a kitchen, stores, and dining hall for the patients. There are two recreation rooms for patients, and a laboratory. The accommodation for patients includes forty single bed rooms, eleven rooms accommodating two beds, and two rooms which accommodate three patients.

In addition to the patients admitted to the City Sanatoria, during the year there were 11 adult males, 9 adult females, and 136 children suffering from the non-pulmonary forms of tuberculosis, who were admitted to various hospitals, including the Royal Cripples' Hospitals, Moseley Hall, and the Children's Hospital, etc., for the treatment of non-pulmonary forms of tuberculosis. A grant towards the maintenance of these patients was made by the Public Health Committee.

During the year, the home visits made by the medical staff numbered 1,123. The personal consultations between members of the medical staff and practitioners in the city, during the year was 262, in addition there were 7,064 other consultations with medical practitioners during the year.

Many persons attended at the City Sanatorium, Yardley Green Road, as out-patients, for artificial light treatment; during the year under review, the number of attendances for this purpose was 12,328.

Admissions to the Sanatoria are decided upon only after examination at the Centre, or at the patients' homes, and the sanatorium to which patients are sent depends on the condition of the disease, etc. On returning from Sanatoria, patients are re-examined at the Centre, and many old patients who discontinue treatment, are re-examined from time to time.

The Anti-Tuberculosis Scheme includes 36 beds at Yardley Green Road Sanatorium set apart for the purpose of observation and investigation:—

10 are reserved for boys.
10 are reserved for adult males.
8 are reserved for adult females.
8 are reserved for female children.

The provision of these beds facilitates a correct diagnosis, which would in some cases be difficult to arrive at without them.

The scheme is also fortunate in having a large number of beds set apart for the care and treatment of the "hospital" type of case, the male patients being admitted to Yardley Green Road Sanatorium, and the females to West Heath Sanatorium. These beds are essential on humanitarian grounds, and in addition, are a prophylactic asset in connection with the public health work of the City. For this reason, it is desirable that as large a percentage as possible of the annual deaths occurring in the city from tuberculosis, should take place in beds controlled by the public health department.

During the period under review, there were 805 deaths in the city from all forms of tuberculosis, and of this number no less than 367 or 45.5 per cent. occurred in beds in the municipal sanatoria and hospitals controlled by the Public Health Committee. A small number of beds is reserved in one of the Municipal Hospitals for tuberculous patients who require obstetric care.

The two subsequent tables show the reductions that have taken place in the death rate from tuberculosis in all forms, and in the pulmonary and non-pulmonary varieties separately, in this City. In the first table, two hemi-decades with an interval of ten years have been chosen for comparison. In the second table, two periods of three years, with an interval of ten years between them, have been compared, to show the decrease that has occurred in the incidence rate for tuberculosis, as revealed by notification. Amongst the deaths certified as being caused by tuberculosis during the year were those of seventy-two persons who had been notified as suffering from this disease ten or more years ago, and seventy-five deaths from tuberculosis were certified during the year amongst persons who had been notified five or more years ago.

Quite a number of those suffering from tuberculosis who receive treatment recover from the disease; last year three hundred and fifty-seven persons who had recovered were removed from the register, and in one thousand and forty instances the disease was in an arrested state, although the individuals were being kept under supervision as a precautionary measure. At present there are five thousand, six hundred and seven known cases of tuberculosis in the City, being in the proportion of approximately five cases to one thousand of the population.

The mean mortality from Tuberculosis for two comparable 5 year periods has been as follows:

ALL FORMS OF TUBERCULOSIS AT ALL AGES.

5 years	1922—1926 1932—1936	Death rate per 1,000, 1.10 0.85	Reduction	22.7%
PULMONARY TUBERCU	LOSIS AT ALL AGES	L. The last		
5 years	1922—1926 1932—1936	.96 .76	Reduction	20.0%
Non-Pulmonary Tue	ERCULOSIS, AT ALL	Ages.		
5 years	1922—1926 1932—1936	.15 .09	Reduction	40.0%

These figures show a very substantial decrease in the mortality during the past 14 years.

The new cases of Tuberculosis (all forms) also show a considerable reduction. To illustrate this, two 3 year periods are compared, i.e., 1924-1926 with 1934-1936.

NEW CASES OF TUBERCULOSIS.

		Incidence per 1,000		
3 years	1924-1926	1.96		
- 3	1934-1936	1.21	Reduction	38%

The notified cases of Tuberculosis showed a decrease during the year 1936, as compared with the year 1935, for both the pulmonary and non-pulmonary varieties.

The number of deaths for all forms of tuberculosis showed a decrease when compared with the previous year.

TUBERCULOSIS (all forms).

		New Cases	Rate per 1,000	Deaths	Death-rate per 1,000
1901-1905	(Average)	_		1,384	1.78
1906-1910	,,	_	22	1,235	1.51
1911-1915	.,	_	_	1,307	1.51
1916-1920		3,343	3.73	1,261	1.40
1921-1925	,,	2,060	2.20	1,046	1.12
1926-1930	,,	1,588	1.63	1,016	1.04
1931-1935	***	1,459	1.43	928	0.91
1922		1,961	2.12	1,049	1.13
1923		2,166	2.32	1,006	1.08
1924		2,129	2.22	1,055	1.10
1925		1,797	1.89	1,083	1.14
1926	*** ***	1,704	1.78	1,024	1.06
1927		1,607	1.66	1,017	1.05
1928	*** ***	1,606	1.64	965	0.99
1929	***	1,538	1.57	1,066	1.09
1930		1,483	1.51	1,008	1.03
1931	*** ***	1,679	1.66	1,070	1.06
1932	*** ***	1,517	1.49	954	0.93
1933		1,486	1.45	983	0.96
1934		1,398	1.36	814	0.79
1935		1,213	1.17	817	0.79
1936	*** ***	1,136	1.10	805	0.78

The relative prevalence and mortality from pulmonary and other forms of tuberculosis shown separately is indicated in the two subsequent tables:—

PULMONARY TUBERCULOSIS.

		New Cases	Rate per 1,000	Deaths.	Death-rate per 1,000
1901-1905	(Average)	_	-	1,039	1.34
1906-1910	"	-	_	947	1.16
1911-1915	,,	-	-	1,057	1.22
1916-1920	,,	2,936	3.27	1,062	1.18
1921-1925	,,	1,739	1.86	903	.96
1926-1930	"	1,327	1.36	881	. 91
1931-1935	"	1,225	1.20	824	.80
1919		2,704	2.92	1,019	1.10
1920		2,609	2.87	843	.93
1921		1,969	2.15	890	.97
1922		1,669	1.80	899	.97
1923		1,785	1.91	860	.92
1924		1,780	1.85	934	.97
1925		1,491	1.57	930	.98
1926		1,421	1.48	905	.94
1927		1,343	1.39	857	.89
1928		1,361	1.39	840	.86
1929		1,270	1.30	918	.94
1930	***	1,242	1.26	884	.90
1931		1,397	1.38	932	.92
1932		1,266	1.24	849	.83
1933		1,250	1.22	874	.85
1934		1,187	1.15	782	.71
1935		1,023	.99	782	.71
1936		962	.98	734	.71

The incidence rates for the pulmonary and non-pulmonary forms of tuberculosis during the year 1936 are the lowest yet recorded in the city.

	N	ON-PULMONAR	Y TUBERCULOS	IS.	Death-rate
		New Cases.	Rate per 1,000	Deaths	per 1,000
1901-1905	(Average)	-	-	345	.45
1906-1910	***	Carrie	THOMEST	289	.35
1911-1915	,,		-	249	.29
1916-1920	**	407	.45	199	.22
1921-1925	11	321	.84	143	.15
1926-1930	**	260	.27	135	.13
1931-1935	1)	284	.23	104	.10
1919		. 412	.45	169	.18
1920		905	.40	158	.17
1921		979	.30	145	.16
1922		909	.32	150	.16
1923		901	.41	146	.16
1924		940	.36	121	.13
1925		906	.32	153	.16
1926		909	.30	119	.12
1927		064	.27	160	.17
1928		945	.25	125	.13
1929		000	.27	148	
1930		041	.25	124	.15
1931		999	.28	138	.13
1932		0.51	.25	105	.14
1988	*** ***	996			.10
1934			.23	109	.11
1935			.21	82	.08
1936			.18	85	.08
1900	1	. 174	.17	71	.07

The cases notified in 1936 comprise the varieties shown in the next table, which also indicates the number of cases in which information was obtained from the death certificates alone without previous notifications.

The total number of deaths is al	so show	n.	New Cases Notified in 1936.	Cases not Notified before Death.	Total Deaths.
Pulmonary Tuberculosis			962	35	734
Tubercular Meningitis	***		21	5	25
Tubercle of the Abdomen			26	3	10
Tubercle of the Spinal Column			16	4	8
Tubercle of Joints and Bones other th	han Spir	ie	32	1	3
Disseminated tuberculosis			- 11	6	19
Tubercle of the Glands and other pa	irts	***	- 68	2	6
Disseminated tuberculosis	***		- 11	1 6 2	

The number of instances in which tuberculosis was not notified prior to death was fifty-six for all forms of the disease, thirty-five were of the pulmonary type, and twenty-one were non-pulmonary.

Thirty-one were only diagnosed as the result of autopsies. Sixteen died in their homes and forty in hospitals; five were the subjects of a Coroner's enquiry.

In two instances cancer was also present, and in one case encephalitis lethargica was associated; in one individual the immediate cause of death was an accident. On two occasions death resulted from post-operative haemorrhage. Diabetes mellitus and silicosis were diseases also associated on two occasions. In twenty-eight of these individuals the age at death was fifty years and over.

Had so many of these persons not died in hospitals the number of autopsies would have been definitely fewer and the tuberculosis would probably have escaped detection in quite a large proportion.

After death notifications cannot invariably be accepted as evidence of ineffective diagnosis, or of imperfect notifications, during the lifetime of the patient; they may possibly bear some relationship to the hospitalisation of the area in which they occur, and to the activities of local pathological departments.

In a number of cases tuberculosis was associated with other grave diseases and may not always have been the primary cause of death.

The home contacts of some of these persons were investigated, and some are being kept under supervision, which was an advantage to a number of children and adolescents who might not otherwise have been dealt with.

In the following table are shown the number of some forms of tuberculosis notified during the year, with the sex and age period at which they occurred.

CASES OF TUBERCULOSIS NOTIFIED DURING THE YEAR 1936.

CLASSIFIED ACCORDING TO SEX AND AGE.

8.0 0.1 7.0 400 3.0	-0	Ţ	2-4	6—9	10—14	10—14 15—19	20—24	25—34	.35—44 45—54	45—54	55-64	65—74	75 up.	TOTALS.
E.	6.4	0101	7:1	13	13	39	58	90	103	119	23 83	14	61-	396
E.K.	8	to 61	- 61	- 52	10		-1	11	1-	11	11	11	11	0.1
H.F.	-1	11		27	61 61	64	1-	1 6	61	1-	61	11	11	I 75
NH.		- 0	99	7 6	8 8	90	9.6	10	P.4	17 10	0101	ĹĹ	-	67

In the subsequent table are shown the number of notifications and the number of deaths arranged for males and females according to the various age groups, relating to both pulmonary and non-pulmonary forms of tuberculosis:—

PULMONARY.		11	TUBERCULO	Male, Dea	ths.	Cases.	male, Deaths,
0— 1—	*****		3 2		2	4 2	4 2
2-4	*****		14		3	11	2 2
5-14			19		1	23	3
15—24 25—44	*****	*****	97 213	15		139 139	88 118
45-64	*****		202	19		71	73
65-74	*****	*****	14	2		6	7
75 (up)			2		5	=1	-
			566	43	7	396	297
			ases, Total eaths, Total	-	962 734		
Non-Pulmonary.							
0—			5		4	1	2
1—	*****		4		4	5	2
2-4		2000	8		3 9 5 2 4	9	4
5—14 15—24			27		9	22 18	9
25-44			12		2	23	9
45-64			11		4	8	6
65-74			-		2	-	1
75 (up)			1		-	-	1
			88	3	3	86	38
			ases, Total leaths, Total		174 71		
		G	RAND TOTALS,	Cases Deaths	1,136 805		

The tuberculosis case-rates and death-rates in other towns for all forms of tuberculosis, are given in the following tables:—

TUBERCULOSIS (All Forms).

Comparative Figures in 11 Largest Towns.

		Case-rate per 1,000.	Death-rate per 1,000.
++-04		1.5	0.8
	*****	2.1	1.1
		1.1	0.8
man to		2.4	1.0
		1.6	1.0
- mm = 12		2.4	0.7
		1.4	0.8
		1.6	0.8
		1.4	0.8
		1.6	0.8
		1.3	0.7
			per 1,000. 1.5 2.1 1.1 2.4 1.6 1.4 1.6 1.4 1.6 1.3

It will be seen that Birmingham compares favourably with other great towns.

TUBERCULOSIS IN THE CITY WARDS.

The distribution of cases of tuberculosis over the wards of the City is shown in the next tables:-

		Case-rate per 1,000 in	1936
		Non-	
		Pulmonary Pulmonary	Total
	St. Paul's	1.22 0.17	1.39)
	St. Mary's	1.53 0.18	1.71
	Duddeston and Nechells	1.27 0.06	1.33
Central Wards	≺ St. Bartholomew's	1.53 0.16	1.69 > Average 1.59
	St. Martin's and Deritend	1.54 0.20	1.74
	Market Hall		1.82
	Ladywood	0.92 0.53	1.45
	[Lozells	0.91 0.24	1.15
	Aston	0.91 0.15	1.06
	Washwood Heath	0.55 0.13	0.68
	Saltley	0.90 0.21	1.11
Middle Wards	≺ Small Heath	0.65 0.17	0.82 > Average 1.14
	Sparkbrook	1.27 0.20	1.47
	Balsall Heath		1.38
	Edgbaston	0.59 0.22	0.81
	Rotton Park	1.38 0.23	1.61
	All Saints'	1.23 0.13	1.36
	(Soho	1.00 0.21	1.21
	Sandwell	0.43 0.24	0.67
	Handsworth	0.97 0.07	1.04
	Perry Barr	0.93 0.21	1.14
	Erdington	1.23 0.11	1.34
	Gravelly Hill	0.68 0.16	0.84
	Bromford	0.97 0.18	1.15
	Stechford	0.76 0.12	0.88
Outer Ring	≺ Yardley	0.95 0.11	1.06 > Average 0.87
	Acock's Green	0.68 0.11	0.79
	Hall Green	0.38 0.21	0.59
	Sparkhill	0.40 0.06	0.46
	Moseley and King's Heath	0.61 0.13	0.74
	Selly Oak	0.88 0.07	0.95
	King's Norton	0.47 0.03	0.50
	Northfield	0.80 0.28	1.08
	Harborne	0.30 0.08	0.38

The average for the Central Wards is the same as that for 1935 but there is a reduction in the Middle Wards and Outer Ring.

The figures for 1935 are 1.18 for the Middle Wards and 0.96 for the Outer Ring.

CITY	962	21	36	16	32	88	=======================================
Not located	-			1	1	1	1
Yardley	26	1	-	1	1	01	1
Washwood	17		-	1	-	61	1
Stechford	19	1	-	1	-	-	1
Hiddrage	13	-	-	1	1	1	1
Sparkbrook	38	-	61	1	-	61	1
opos	24	1	-	-	8	1	1
Small Heath	19	1	-	1	3	-	1
Selly Oak	26	1	-	1	-	1	1
Iləwbns2	6	1	22	-	1	-	-
Saltley	26	61	1	1	1	4	1
St. Paul's	37	1	-	-	1	3	1
St. Mary's	43	1	-	-	1	2	-
St. Martin's and Deritend	150	-	-		1	7	-
Saint Bartholomew's	49	1	1	-	8	-	1
Rotton Park	43	8	61	-	-	1	1
Perry Barr	40	-	1	-	-	10	-
Northfield	31	-	-	8	1	0.	-
Moseley and King's Heath	24	61	1	1	-	61	1
Market Hall	31	61	61	1	-	1	
sliazo.1	26	1	1	-	4	-	-
Ladywood	26	-	1	-	61	10	-
King's Norton	15	1	1	1	1	-	1
Harborne	00	1	1	1	1	61	1
Handsworth	26	1	61	1	1	1	1
Hall Green	15	-	-	1	01	6	-
Gravelly Hill	21	-	-	1	1	60	1
Endington	35	1	1	-	1	1	61
Edgbaston	16	-	-	1	-	60	1
Duddeston and Nechells	45	0.1	1	1	1	1	1
Bromford	27	-	1	63	-	-	1
Balsall Heath	40	1	1	1	-	4	1
Aston	30	1	1	1	22	60	1
All Saints'	37	1	01	1	-	-	1
Acock's Green	24	1	1	-	-	-	-
DISEASE	Pulmonary Tuberculosis —	Tubercular Meningitis	Tuberculosis of peritoneum and intestines	Tuberculosis of spinal column	Tuberculosis of joints	Tuberculosis of other organs	Disseminated tuberculosis

CASES OF TUBERCULOSIS NOTIFIED DURING THE YEAR 1936, CLASSIFIED ACCORDING TO WARDS.

WORK OF THE TUBERCULOSIS VISITORS.

There are ten nurses engaged as tuberculosis visitors in the Department, each having charge of a definite part of the City. It is the duty of these visitors to make enquiry into every notified case of tuberculosis and afterwards to keep in touch by periodical visiting and carry out any aftercare, etc., that may be needed.

At the end of 1936 there were 5,607 cases of tuberculosis on the current register all of which have to be visited at more or less regular intervals. The visits paid last year were as follows:—

Primary visits (to new cases) ... 1,357 Routine re-visits ... 19,004 Special visits and re-visits ... 8,542

At the first visit to new cases, it was found that 613 patients out of the 1,357 were sharing a bed with some other person; while 389 shared a bedroom but had a separate bed. Efforts are always made to get a separate bedroom or if this out of the question at least a separate bed for every patient. Unfortunately, owing to lack of accommodation, or unwillingness on the part of the patient, this is not always possible.

It is the duty of these visitors to bring to the notice of the Department every case of overcrowding in relation to pulmonary tuberculosis for representation to the Estates Committee for special treatment, if considered advisable by the medical staff.

ACTION UNDER LEGAL ENACTMENTS.

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, relating to tuberculous employees in the milk trade, nor was section 62 of the Public Health Act, 1925, employed to remove any patient compulsorily to a sanatorium.

DISINFECTION.

The disinfection of 1,697 houses was undertaken during the year where some member of the family had suffered or died from tuberculosis, or changed his or her address.

CARE WORK.

A considerable amount of care work is undertaken from the Centre in Great Charles Street.

It is found that such work can be usefully fitted into the dispensary organisation if executive officers are interested, tactful, and alert, and have the personality and experience which goes far in making a success of care work.

During the year 1936 the tuberculosis health visitors made 28,903 visits to the homes of patients, and care work was responsible for many of them, in addition 1,123 visits were paid to the homes of patients by members of the medical staff, many of them for a similar purpose.

In the same period 117 persons received beds and bedding on loan or hire-purchase from the department. Twenty-five sleeping chalets were also loaned to patients; opportunity for the use of these chalets is largely governed by the fitness of the patient to sleep or rest for prolonged periods out of doors, unattended, and by the existence of a suitable site. Beds, bedding and sleeping chalets are loaned in order to provide more suitable accommodation for the patient, and to lessen as far as possible, the risk of infection to other members of the family.

Through the representations of the care department we obtained better housing conditions, or promises of the same, through the Estates Department for the families of ninety-seven of our patients. Grants of clothing and other personal items were made to patients in some two hundred and eleven instances. Also, a large number of recommendations for relief and assistance were made to the Public Assistance Department, and to various charitable organisations both within and without the city.

The care department has been instrumental in assisting the families of our patients, and patients themselves, to obtain suitable medical treatment for ailments other than tuberculosis, and grants of food have been made to one hundred and thirty patients.

To prevent overlapping between ourselves and the Public Assistance Department, a note is sent from the Centre each week to the Public Assistance Department informing the latter of any grants made to our patients.

In addition to the activities already outlined the department has helped patients to obtain dentures, air-rings and other nursing utensils, surgical appliances and splints, and has assisted in some instances in the provision of meals. It has obtained money to pay bus and tram fares to enable patients to procure treatment. In the past, we have helped to provide such items as a wig, an artificial eye, and an artificial leg, all of which have aided our patients to obtain employment.

In discussing care work it must be recognised that the benefit from treatment in Sanatoria, etc., is frequently diminished or lost because a patient has to return to unsatisfactory conditions of work and living, or to resume work too soon. It should also be stressed that the tuberculous individual is a damaged life, and however good the results of treatment may have been, the sufferer can very seldom be regarded as having a one hundred per cent. economic value to the community. Unless the patient and those responsible for his care realise this fact, and work for the re-adaptation of his subsequent life and employment on this assumption, tragedy will result. Unfortunately, trade conditions are such that there is practically no room in the industrial market for the partially disabled person suffering from tuberculosis, where he would have to work eight hours daily in what is often an unsuitable environment, under competitive strain. On the other hand, a certain number of patients who are able to work four or six hours daily in suitable environment, at their own pace, are debarred from doing so by lack of opportunity. Something may be done to help these patients by way of workshops attached to suburban sanatoria, at which the ex-patient can attend daily, and work at his own pace, in selected surroundings, for a limited number of hours daily, under medical supervision. Under these circumstances patients can usually obtain a suitable mid-day meal, practically at cost price, or gratis. An arrangement such as this exists at the Yardley Green Road Sanatorium, and quite an appreciable sum of money has been paid out weekly during the year resulting from the sale of patients' work. One of the difficulties of such a scheme is that unless machinery is installed, properly trained and skilled hand-workers are required, and these take a long time to train before they are sufficiently skilled to earn even a modest wage.

The close intercommunication existing between the Tuberculosis Section and the School Medical Officer's Department, and the Infant Welfare Medical Officer, has provided opportunities for the Care Committee to function in a wider sphere than would have been possible otherwise.

ANTI-TUBERCULOSIS CENTRE.

ATTENDANCES AND EXAMINATIONS.

The total number of attendances at the Anti-Tuberculosis Centre during the year 1936, made by patients for the purpose of diagnosis, consultation, observation, advice and treatment, was 34,936.

This total is made up of 2,360 attendances for supervision, observation, and advice; 8,954 attendances for examination; 9,053 attendances for X-ray examination; and 14,569 attendances in the artificial light departments. The X-ray work included 6,750 screen examinations, and 2,303 films.

Attendances for supervision, obse Attendances for consultation and Attendances for Light Treatment	exami		eatme	nt			2,360 8,954
Yardley Green Road Sanator	rium	20124					12,328
151, Great Charles Street						 	2,241
X-ray examinations (screens) X-ray examinations (films)							6,750 2,303
A-ray examinations (mms)					40000	 1000	2,000
							34,936
							The Control of the Control

During the year 1936, some 962 new cases of pulmonary tuberculosis were notified to the Medical Officer of Health, and of this number 866 or 90 per cent. were examined at the Centre. There were also 174 cases of non-pulmonary tuberculosis notified during the year, of which 111 or 63.8 per cent, were examined at the Centre.

The number of patients on the Dispensary Register on 1st January was 5,164: the number of persons transferred to other areas during the year, and the cases "lost sight of" numbered 260, the number transferred to us from other areas and the "lost sight of" cases returned was 130.

At the end of the year 953 insured persons were receiving domiciliary treatment at the recommendation of the medical staff,

TREATMENT RECOMMENDED.

In the following table are set out the treatments recommended for patients examined at the Anti-Tuberculosis Centre during the year.

The state of the s		Fir	st Examina	tions.	Re-ex	aminations.
Sanatorium treatment		Newly notified. 511	Contacts,	Suspects.	Old Cases. 405	Suspects or Contacts.
Dispensary treatment		2	1	2	21	
Supervision		15	3	9	893	2
Out-patient light treatment		6	4	6	27	
Domiciliary treatment		97	2	43	1.562	1
No treatment required		223	1,166	1,567	280	897
		854	1,215	1,903	3,188	915

The table above shows that a large percentage of new cases notified during the year received a primary period of Sanatorium treatment. This is an advantage to the patient inasmuch as his physical condition is benefited, and he acquires practical experience of the treatment which it would be to his advantage to carry out in a modified form in his own home afterwards.

CLASSIFICATION OF PATIENTS ACCORDING TO GROUP OF DISEASE.

The following tables show the classification of the patients examined according to Group of disease; adults and children are shown separately.

			Apul	LTS.				
				First Newly notified.	Examinati	ons. Suspects.	Re-ex Old Cases.	Suspects or Contacts
					Commets.			Contacts,
Group I		*****		67	7	69	509	1
Group II				261	9	146	1,486	2
Group III				233	4	74	515	1
Group IV				45	3	12	167	
No treatmer				164	477	1,151	48	192
				770	500	1,452	2,725	196

CHILDREN.

	0.101			t Examinat	ions.		minations
			Newly notified.	Contacts.	Suspects	Old Cases.	Suspects or Contacts
Group I			8	18	18	212	10
Group II			3	4	1	77	4
Group III			3		1	10	-
Group IV			17	3	9	137	1
No treatment		 	 53	690	422	27	704
			84	715	451	463	719

In certain instances patients included in the various groups are suffering from other forms of tuberculosis in addition to pulmonary, but for convenience are classified as pulmonary cases, when that type of the disease is present in association with other types. In the succeeding tables are set out briefly some details of those who were referred to us as contacts and suspects. Amongst those classified here as suspects are many who had been living in contact with known cases of tuberculosis, and who were, therefore, possibly referred to us mainly for this reason.

The contacts have been divided into various age groups, and they have also been arranged to show the numbers in each group that came from homes where there had been contact with patients suffering from tuberculosis associated with a positive or a negative sputum.

Suspects Examined During the Year 1936. Total = 1,903.

Definitely tuberculous		*****			330
No signs of tuberculosis	114	 	 	and the second	1,573

Contacts Examined Dur	ING THE YEAR	₹ 1936.	
Ages.	Found to be suffering from Tuberculosis.	Found not to be suffering from Tuberculosis,	TOTALS
0 to 5 years.	Tubercurosis,	Tubercurosis,	TOTALS
Contacts to patients with sputum containing tubercle bacilli	12 or 7.4%	150 or 92.6%	162
Contacts to patients with negative sputum	4 or 3.9%	99 or 96.1%	103
6 to 10 years.			
Contacts to patients with sputum containing tubercle bacilli	4 or 2.4%	161 or 97.6%	165
Contacts to patients with negative sputum	1 or .9%	113 or 99.1%	114
11 to 15 years.	1		
Contacts to patients with sputum containing tubercle bacilli	3 or 2.3%	125 or 97.7%	128
Contacts to patients with negative sputum	2 or 2.7%	72 or 97.3%	74
16 years and over.			
Contacts to patients with sputum containing tubercle bacilli	15 or 4.9%	293 or 95.1%	308
Contacts to patients with negative sputum	7 or 4.3%	. 154 or 95.7%	161
Grand Totals	48	1,167	1,215

During the six years 1931 to 1936 inclusive 5,634 contacts were examined. 3,572 of these were contacts to patients whose sputum was known to contain tubercle bacilli, the remaining 2,062 were contacts to patients in whose sputum tubercle bacilli were not demonstrated, or to patients from whom sputum could not be obtained. From birth to fifteen years of age the contacts are classified in hemi-decades. It will be seen that in every age period the largest numbers found to be suffering from tuberculosis were detected amongst those who were contacts to positive sputum patients, and the largest percentage of contacts with definite disease was found in the first and second hemi-decades under 15 years. Over fifteen years of age, the percentage of definite cases of

tuberculosis detected amongst contacts is greater than in any of the earlier hemi-decades, whether association occurred with positive or negative sputum patients. These details are shown in the following table:----

CONTACTS EXAMINED DURING THE YEARS 1931 TO 1936 INCLUSIVE.

Ages. 0 to 5 years.	Found to be suffering from Tuberculosis.	Found not to be suffering from Tuberculosis.	TOTALS.
Contacts to patients with sputum containing tubercle bacilli	05 0001	897 or 93.2%	962
Contacts to patients with negative spulum	25 or 3.8%	628 or 96.2%	653
6 to 10 years.			
Contacts to patients with sputum containing			
tubercle bacilli spattam comaning		725 or 94.6%	766
Contacts to patients with negative sputum	17 or 3.4%	487 or 96.6%	504
11 to 15 years.			
Contacts to patients with sputum containing tubercle bacilli		620 or 95.7%	648
Contacts to patients with negative sputum	9 or 3.2%	269 or 96.8%	278
16 years and over.			
Contacts to patients with sputum containing tubercle bacilli	00 7 50/	1,106 or 92.5%	1,196
Contacts to patients with negative spulum	32 or 5.1%	595 or 94.9%	627
Grand totals	307 or 5.4%	5,327 or 94.6%	5,634

A number of child contacts who presented no definite evidence of active tuberculosis after a primary investigation are given supervision for a number of years, including periodic examinations, the extent and frequency of which are determined by circumstances depending upon social conditions, continuance of exposure to infection, and the occurrence of such intercurrent diseases as measles, whooping cough, broncho-pneumonia, pleurisy and phlyctenular conjunctivitis. Re-examinations may be undertaken at longer intervals than would otherwise be desirable where there is good liaison, including regular exchange of information between the tuberculosis department, and the infant welfare and education departments, and where there is satisfactory co-operation with the general practitioner.

The initial investigation of contacts must be both comprehensive and intensive if it is to be effective; the entire household should be the unit for primary investigation, and initial examinations must never be incomplete or undertaken in a haphazard way as so much will depend upon the thoroughness of the investigation, the correct assessment of findings, and the adoption of measures designed to protect those exposed to continuous and massive doses of infection.

Our figures for contact examinations certainly show the necessity for this phase of dispensary work, and they further suggest that tuberculosis is more frequently discovered amongst child contacts to positive sputum patients than amongst those in contact with negative sputum patients.

The investigation of contacts at the clinic has included a careful physical and radioscopic examination, followed in many instances by an X-ray film. Frequently, a few weeks spent in an observation bed at the sanatorium have also been devoted to investigation. An intradermal tuberculin test is applied to practically all children under ten years of age examined as contacts, and to a number of older patients when necessary.

During the year, 892 patients were tested with tuberculin, the Mantoux method being used, and in a large majority of cases the test was commenced with the injection of 0.1 mg. of O.T.

In the subsequent table are given some details about the intradermal tests undertaken during the years 1935 and 1936, which numbered 1,633. 638 were made on children aged 0-5 years, and of these 49.5 per cent. were positive. 844 tests were made on children between the ages of 6-10 years, of which 44.9 per cent. were positive. 151 were undertaken on persons of eleven years of age and over, amongst these 64.9 per cent. were positive.

Intradermal Tests, 1935/1936.

Ages		Males	Females	Totals
0 to 5 years	Positive	163	153	316 or 49.5%
	Negative	184	138	322
6 to 10 years	Positive	203	176	379 or 44.9%
	Negative	253	212	465
11 years and over	Positive	58	40	98 or 64.9%
	Negative	19	34	53

FAECES EXAMINED.

If patients in the sanatorium, either for treatment or diagnosis could produce no sputum, or where sputum was persistently negative for tubercle bacilli, faeces were examined for acid and alcohol fast bacilli.

In a series of 3,016 examinations of faeces for tubercle bacilli from patients at ages of ten years and upwards, with no sputum, or a sputum that was persistently negative for tubercle bacilli, 101 or 3.3 per cent. were found to contain acid and alcohol fast bacilli. In 33 of these "no sputum" persisted, in 61 the sputum eventually became positive, and in seven instances the sputum remained persistently negative.

Sputum when present was examined by various methods, at weekly intervals whilst the patient was in the sanatorium, and in no instance were the faeces examined before the patient had been in sanatorium for at least one week, during which only pasteurised milk was consumed.

GASTRIC LAVAGES.

In children under ten years of age, who rarely expectorate, sputum for examination is not always easy to obtain. To meet this, the contents of a stomach lavage, taken first thing in the morning from a fasting stomach, were investigated for acid fast bacilli, whether or not these were found on smear examination alone, some of the centrifuged deposit was injected into a guinea-pig.

To date, we have examined 588 stomach lavages, of which 49 or 8.3 per cent. gave a positive result for tubercle bacilli. Only five of these were positive on smear examination, the remaining 44 were only discovered as the result of a guinea-pig injection.

Ages.			(Contact.	Suspect.	Notified,	Total.
0-8 years	***			9	4	3	16
4-6 years	***	***	***	13	4	3	20
7-10 years	***			8	4	1	13
				-	-	-	-
				30	12	7	49
				-	-	-	-

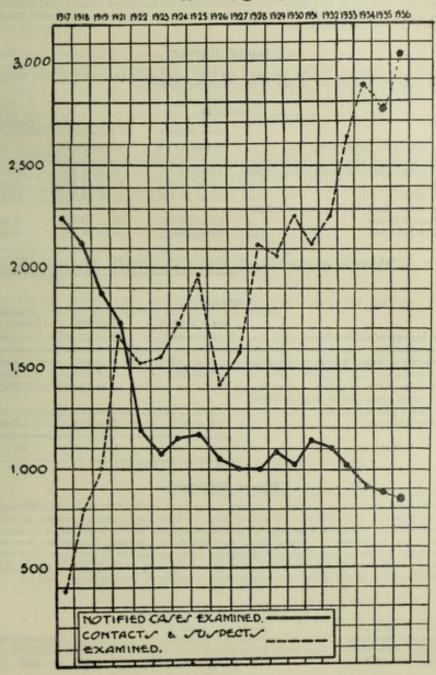
In every instance the children gave a positive result to an intradermal tuberculin test, physical signs were slight or absent in many cases, but each presented radiographic signs.

Four were suffering from the adult type of pulmonary tubercle, two from a chronic miliary distribution, two showed evidence of plauritis, five were suffering from a tuberculous bronchopneumonia, and thirty-six were classified as being glandular and epi-tuberculous in type.

"CONTACTS," "SUSPECTS" AND "NOTIFIED CASES."

In the graph below are shown the number of "contacts" and "suspects" and "notified cases" examined over a series of years.

PULMONARY TUBERCULOSIS.



The work of the Tuberculosis Department is greatly facilitated when patients in the General Hospitals (voluntary and municipal) who are suffering from tuberculosis, are advised to apply to us for further treatment, and for the examination of their families as "contacts".

Unless the patient realises that he is suffering from tuberculosis when he leaves the hospital, he is sometimes disinclined to accept further treatment in a sanatorium, because he imagines the time spent in the hospital is all the treatment he is likely to require.

During the past year 315 notifications of tuberculosis were received from the Municipal and Public Assistance Hospitals, having an aggregate number of beds equivalent to 4,412. Of this number, 68 were acutely ill and could not be examined for a variety of reasons; 247 were examined, and of this number 38 refused treatment, 167 were admitted to Sanatoria and 42 were recommended for treatment other than Sanatorium,

FAMILY HISTORY.

A survey of the family history has been made of 1,015 patients examined who were definitely tuberculous, and the results are shown in the following tables:—

			ADULTS.		Contact with
			Newly Notified.	Suspects.	Definite Disease,
rculosis			504 or 83.1%	225 or 74.7%	_
d from to	ubercu	losis	16 or 15.7%	9 or 11.8%	2 or 8.7%
***			8 or 7.8%	11 or 14.4%	3 or 13.0%
			27 or 26.4%	27 or 35.6%	7 or 30.4%
ove, sch	ool fel	llow			
			31 or 30.4%	15 or 19.7%	7 or 30.4%
		***	20 or 19.6%	14 or 18.5%	4 or 17.4%
			102	76	23
		C	HILDREN.		
			Newly Notified.	Suspects.	Contacts with Definite Disease.
erculosis			23 or 74%	21 or 72.4%	-
d from t	ubercu	losis	1 or 12.5%	2 or 25%	7 or 28%
		44.00	. 01 1210 /0	201 20 /0	
			2 or 25%	2 or 25%	8 or 32%
				2 or 25%	8 or 32%
				2 or 25%	8 or 32%
ove, sch	ool fe	llow	2 or 25%	2 or 25% 1 or 12.5%	8 or 32%
	ove, sch	d from tubercu	d from tuberculosis ove, school fellow	rculosis 504 or 83.1% d from tuberculosis 16 or 15.7% 8 or 7.8% 27 or 26.4% ove, school fellow 20 or 19.6% CHILDREN. Newly Notified. erculosis 23 or 74%	Newly Notified. Suspects. reulosis 504 or 83.1% 225 or 74.7% d from tuberculosis 16 or 15.7% 9 or 11.8% 27 or 26.4% 27 or 35.6% ove, school fellow 31 or 30.4% 15 or 19.7% 20 or 19.6% 14 or 18.5% 102 76 CHILDREN. Newly Notified. Suspects. erculosis 23 or 74% 21 or 72.4%

DENTAL TREATMENT.

The part-time services of a dental surgeon are utilized at the Centre for the necessary treatment of our patients. The treatment is conservative in type, and consists mainly of extractions, fillings, and scalings. Patients who wish to provide their own dentures can do so under conditions advantageous to themselves by arrangement with the dental surgeon. During the year there were 370 extractions, 7 fillings and 2 repairs. Dentures were supplied in 13 instances. The condition of the teeth and gums of most of our patients seen during the year, so far as dental caries, masticatory power, and the state of the gums were concerned, is shown in the following table:—

CONDITION OF TEETH AND GUMS.

Number of Teeth v			catory power i			State of Gur	ns.
None. 1 to 4. More th	an 4. S	ix or more.	Less than 6.	None.	Healthy.	Gingivitis.	Pyorrhoea.
2,706 2,516 278	3	4.049	849	602	4.892	328	280

LABORATORY WORK.

A very large number of sputum examinations is undertaken during the year on behalf of persons who are referred for an opinion. If the first examination gives a negative result, subsequent and repeated specimens are examined.

As soon as a patient is referred for examination, a sputum outfit, with instructions and a request for its early return, is posted. Amongst the new adult patients examined for the first time during the year, in whom a definite diagnosis of pulmonary tuberculosis was made, i.e., 930, there were 519 or 55.8 per cent. who presented tubercle bacilli in their sputum. Amongst the total number of children primarily examined in whom a definite diagnosis of pulmonary tuberculosis was made, i.e., 85, there were 9 or 10.6 per cent. who presented tubercle bacilli in their sputum, gastric contents, or faeces.

The difficulty of obtaining sputum from children, even when it exists, is recognised, so all children, whether admitted to sanatorium for observation or treatment, have the faeces and a gastric lavage examined for acid fast bacilli, they are also submitted to a Mantoux tuberculin test. All adult patients who enter the observation pavilions have a blood sedimentation test undertaken and have the faeces examined for acid fast bacilli in addition, when sputum is persistently negative or cannot be procured. A blood sedimentation test is also undertaken periodically for those being treated by artificial pneumothorax.

At the Centre during the year 4,917 specimens of sputum were examined, at Yardley Green Road Sanatorium 6,100 specimens of sputum were examined during the year. Romsley Hill Sanatorium records show that 952 specimens of sputum were examined; at West Heath Sanatorium 1,962 specimens were examined, and at Salterley Grange Sanatorium 389 specimens of sputum were examined during the year.

COMPLETED CASES.

During the year, 1,890 patients completed a course of treatment, or supervision, etc., at the Centre, of whom 1,543 were adults and 347 were children.

During the year under review, we examined and reported upon, 224 patients who were referred to us by the Regional Medical Officer's Department.

In addition, we examined for the Police Department, fifty-seven recruits, to ascertain if any definite evidence of tuberculosis was present. We also had an opportunity of investigating fifty-nine patients suffering from Phlyctenular Ophthalmia, referred to us by the Eye Hospital. Two showed evidence of intra-thoracic tuberculosis, and two were suffering from tuberculous cervical adenitis. Six refused a period of observation for the purposes of investigation.

In the next table the working capacity at the commencement and at the end of a completed period of treatment is given for those patients who were examined during the year. The group of disease quoted was determined at the first examination.

WORKING CAPACITY OF PATIENTS ATTENDING CENTRE.

		OUP I. s. Children.		OUP II. Children.		Children,		Children
Unimpaired working capacity becoming impaired	2	1	3	-	-	-	5	5
unimpaired Impaired capacity becoming totally in-	156	106	167	30	15	3	36	51
caracitated	6	2	47	_	22			-
Impaired capacity for work persisting	145	53	455	13	89	-	38	34
Total incapacity becoming impaired	29	6	103	1	75	1	18	12
Total incapacity becoming unimpaired	14	5	31	11	6	1	12	7
Total incapacity persisting	3	-	24	1	35	2	7	2
	355	173	830	56	242	7	116	111
	-							

In the following tables are set out, as briefly as possible, the main points in connection with an investigation undertaken to ascertain the conditions of those past patients who received treatment at the Centre in the years 1913-1936 inclusive.

PRESENT CONDITION OF PATIENTS TREATED IN PREVIOUS YEARS SHOWING CONDITION OF THOSE WHO WERE TREATED FOR PULMONARY TUBERCULOSIS.

ı	1930	T.B. plus	Group 3	1	-	1	00	8 3	1	6		1	1	6	149	110	9	274 616	283 724
1	-	Class	Group 3	1	8	11	39	28	04	1	60	64	1	64	178	101	4	309	386
ı		-	Group I	7	-	-	6	7	1	52	8	1	1	00	=	10	-	88	92
1	1111		Class T.B. minus.	18	19	16	39	16	19	127	16	17	1	90	46	90	7	200	327
1		plus.	Total (Class T B. plus)	17	3	-	31	27	64	<u>s</u>	0	24	1	61	362	231	1	169	772
1	1929		Group 3	9	1	1	1	8	1	0	1	04	1	10	169	106	2	292	301
1	16	Class T.B.	Group 2	00	64	-	23	18	1	52	60	8	1	=	171	114	-	333	385
1		ਹ	I quora	8	-	1	90	9.	64	28	9	16	1	10	22	=	-	99	98
			Class T.B. minus.	12	16	15	7	25	28	102	3	10	45	43	50	42	00	229	331
1	Ing	plus	Total (Class)	0	10	1	30	32	04	7.	9	00	-	37	353	224	10	639	713
1	00	T.B. p	Group 3	1	-	1	8	10	1	0	1	60	1	7	161	162	-	280	289
1	1928	Class T	Group 2	8	60	1	23	55	1	150	61	+	-	98	176	112	8	318	369
ı		7	Group 1	0.9	-	1	7	10	01	4	4	-	1	10	16	10	1	4	55
			Class T.B. minus	9	Ξ	7	15	24	17	87	19	15	23	47	47	31	7	189	276
ľ		plus	Total (Class)	=	6	-	28	12	-	62	0	9	-	25	352	212	0	614	676
	0	T.B. p	Group 3	-	-	1	64	1	1	-	-	1	1	-	179	118	9	305	308
1	1927	Class T.	Group 2	00	9	-	53	=	-	64	7	60	1	18	160	68	-	278	327
ı		ð	Group I	01	24	1	4	-	1	0	-	8	-	9	13	10	01	31	9
			Class T.B. minus	04	0	17	0	19	22	8	124	18	90	46	46	88	9	253	333
I		plus	Total (Class T.H. plus)	+	4	-	20	22	1	99	8	6	1	35	329	221	10	613	663
1	92	T.B. F	Group 3	1	1	-	-	7	1	9	-	-	1	13	186	123	7	331	337
1	1926	Class T	Group 2	60	0	1	-8	13	1	37	9	9	1	20	128	8	C4	252	588
1	of in	2	Group 1	-	-	1	-	4	1	-	61	01	1	01	15	00	-	30	37
			Class T.B. minus	+	01	17	18	10	6	88	27	49	33	62	62	75	15	323	391
ı		18	Total (Class (sulq .H.T	65	24	4	102	19	8	259	540	351	75	651	2,412	1,113	69	5,211	5,470
	926	B. ph	Group 3	12	8	7	45	35	-	105	100	61	15	197	1,453 2,	734	46	2,606	2,711
	-							1000	-		=				-		_		
	ons to	lass T.	Group 2	39	12	1	4	55	01	1 611	264 10	170	25	276	798	318	123	1,863	1,982
	Previous to	Class T.B. plus	Group 2	14 39	4 12	1	13 44	4 22	01	1110000		120 170	35 25			61 318	11 12	742 1,863 2,606 5	777 1,982 2,711 5,
	Previous to 1926	Class T.	123710							611	264			276	798			9,147 742 1,863	
-	Previous to	Class T.	TB. minus.	14	7	- 201	13	7	- 82	388 35 119	176 264	120	2,050 35	1,860 178 276	161 798	19	11 671	9,147 742	9,535 777 1,982
	Previous to		Class TB. minus. Group 1	98 14	F. 74 4	1	35 13	F. 46 4	1	Register 388 35 119	1,668 176 264	F. 1,844 120	35	Atherwise Register, 1,860 178 276	895 161 798	F. 651 61	11	9,147 742	9,535
	Previous to		Class TB. minus. Group 1	M. 98 14	F. 74 4	- 201	M. 35 13	F. 46 4	- 82	Register 388 35 119	M. 1,668 176 264	F. 1,844 120	2,050 35	Atherwise Register, 1,860 178 276	M. 895 161 798	F. 651 61	11 671	Dispensary 9,147 742	9,535
	Previous to		Class TB. minus. Group 1	M. 98 14	PA 77	Children 107	M. 35 13	- F +6	Children 28	Register 388 35 119	M. 1,668 176 264	F. 1,844 120	Children 2,050 35	or otherwise pensary Register. 1,860 178 276	M. 895 161 798	F. 651 61	11 671	off Dispensary 9,147 742	9,535
	Previous to		Class TB. minus. Group 1	M. 98 14	PA 77	Children 107	M. 35 13	- F +6	Children 28	Dispensary Register 388 35 119	M. 1,668 176 264	F. 1,844 120	Children 2,050 35	of, or otherwise Dispensary Register, 1,860 178 276	M. 895 161 798	Ad F. 651 61	11 671	off Dispensary 9,147 742	9,535
	Previous to		Class TB. minus. Group 1	M. 98 14	F. 74 4	Children 107	M. 35 13	F. 46 4	Children 28	on Dispensary Register 388 35 119	M. 1,668 176 264	F. 1,844 120	Children 2,050 35	of, or otherwise Dispensary Register, 1,860 178 276	M. 895 161 798	F. 651 61	11 671	written off Dispensary 8,147 742	9,535
	Previous to		Class TB. minus. Group 1	M. 98 14	PA 77	Children 107	M. 35 13	- F +6	Children 28	on Dispensary Register 388 35 119	M. 1,668 176 264	s F. 1,844 120	Children 2,050 35	of, or otherwise Dispensary Register, 1,860 178 276	M. 895 161 798	Ad F. 651 61	11 671	off Dispensary 9,147 742	9,535
	Previous to		Class TB. minus. Group 1	arites M. 88 14	Disease AT F. 74 4	Children 107	arites M. 35.	Disease not A F. 46 4	Children 28	Dispensary Register 388 35 119	ults M. 1,668 176 264	Discharged as F. 1,844 120	Children 2,050 35	or otherwise pensary Register. 1,860 178 276	alts M. 895 161 798	Dead A F. 651 61	Children 179 11	Total written off Dispensary 8,147 742	9,535

PRESENT CONDITION OF PATIENTS TREATED IN PREVIOUS YEARS SHOWING CONDITION OF THOSE WHO WERE TREATED FOR PULMONARY TUBERCULOSIS.

	12	Total (Class T.B. plus)	1		1	253	158	4	425	1	1	1	13	8	99	-	691	594
99	B. Plus	Group 3	1	1	1	83	46	-	130	1	1		10	78	94	-	130	260
1936	8	Group 2		1	1	144	86	+	246		1	1	00	18	13	1	39	285
	Class	Group 1	1	1	1	26	14	6	49	1	1	1	1	1	1		1	49 2
		Class T.B. minus	1	1	1	22	100	51	280	1	1	1	15	24	10	01	19	331
		Total (Class T.B. plus)	1	1	1	171	121	6	301	1	1	1	30	166	110	9	312	613
10	B. plus	Group 3	1	1	1	47	25	1	24	1	1	1	=	113	72	7	200	272
1935	H	Group 2	1	1	1	901	58	3	161		1	1	17	52	35	-	105 2	299 2
	Class	Group I	1	1	1	18	=	8	8	1	1	1	01	-	3	-	7	61
		Class T.B. minus	1	1	1	97	88	19	261	1	1	1	20	23	44	10	72	333
	blus	Total (Class T.B. plus)	-	1	1	146	96	13	256		1	1	39	222	146	6	419	875
	B. pl	Group 3	1	1	1	29	21	1	90	1	1	1	6	141	98	8	239	289
1934	H	Group 2	1	1	1	99	99	-	155	1	1	1	23	81	53	10	162	317
	Class	Group 1	-	1	1	53	16	12	51	1	1	1	7	3	7	-	18	69
-		Class T.B. minus	7	60	01	94	76	76	255	1	1	1	47	27	32	10	Ξ	366
	plus.	Total (Class T.B. plus)	10	9	01	611	8	60	218		1	1	48	276	173	13	510	728
	B. pl	Group 3	1	1	1	27	18	-	46	1	1	1	6	175	68	7	277	323
1933	Class T.	Group 2	7	+	1	79	83	1	140	1	1	1	30	86	76	œ	212	352
	2	Group 1	-	2	01	13	12	61	32		1	1	6	60	00	1	51	53
		Class T.B. minus	16	20	6	19	45	56	207	1	1	1	38	38	42	04	130	327
	plus	Total (Class T.B. plus)	1	12	60	92	56	7	174	1	1	1	46	289	218	12	565	739
	B. pl	Group 3	-	7	1	16	1	1	22	1	1	1	10	163	116	00	297	321
1932	T 881	Group 2	10	01	1	68	7	61	121	1	1	1	31	1117	88	3	240	361
	Cla	Group 1	-	3	60	00	12	01	29	1	1	1	9	6	13	1	85	57
		Chass T.B. minus	27	27	24	49	=	53	200	-	1	+	36	약	35	4	111	317
	- Sin	Total (Class)	19	=	-	60	43	10	139	-	01	1	36	342	232	10	643	782
	B. pl	Group 3	1	01	1	00	7	21	19	1	1	1	10	174	127	10	316	335
1881	Class T.B. pl	Group 2	10	60	-	47	80	-	96	-	1	1	39	162	98	10	302	392
	G	Group 1	6	9	1	10	00	04	8	1	64	1	7	9	10	1	23	55
		Class T,B. minus	15	60	40	35	35	40	187	9	9	+	10	90	4	=	173	360
		2 K 81	M.	H.	Children	M.	14	Iren	ster	M.	ir.	Children	vise er.	N.	124	Children	ary	:
		to to	estin	pV	Chil	sali	npv	Children	Register	alts	PV	Chil	otherwise Register.	sti	npv	Chil	Dispensary	:
1		year			-			-	Ly mber				ary F	-		-		:
1		Condition at the time of the last record made during the year to which the return relates				1	+		at 31st December		as		Lost sight of, or removed from Dispensary				en off Register	
-		luring retur	7	Disease	-	-	Disease not	none	Dis 31st		Discharged as	Recovered	m Di		Dead		written Re	:
-		at the		Disease		1	Disea	110	on at		ischa	Keco	sight sd fro		Ď		WE	
15		d md which				100			Total	-	D		ost				Total	TALS
		recon	-	0000	222.0	1 250	e m	200	Regis H	1 1000	21121	Deta 1		1 10	t em-	25.00	1	GRAND TOTALS
2			Á	resu:	eqsi(Ist	0 2	nini	Rema	193	eigo.	A E	bensar	Dis	uo	WOR	30N bas	GRAP

PRESENT CONDITION OF PATIENTS TREATED IN PREVIOUS YEARS SHOWING CONDITION OF THOSE WHO WERE TREATED FOR NON-PULMONARY TUBERCULOSIS.

1902 1 1 1 1 1 1 1 1 1		Condition at the time of the last record made during the year to which the return relates.	Disease				Disease not		Total on Dispensary at 31st December	Transferred to Pulmonary		Discharged as Recovered		Lost sight of, or	ALC: Y	Dead	Leg	Total written off Register	GRAND TOTALS
Continue Continue		the last year to tes.			Children		N.	Children	y Register nber	ry		W V	Children	sary Register	-	L.	Children	Dispensary	TALS
1907 0 0 1 0 0 0 0 0 0 0		Bones and Joints	1	8	61	04	10	8	13	0	=	00	6	6	14	10	7	89	83
100 1	Previ	IsnimobdA	1	-	60	1	1	I	4	8	9	64	61	=	04	69	7	49	53
100 1	ons to	Other Organs	1	1	1	1	1	60	es	-	64	60	7	0	+	01	1	28	31
Second California Califor	1926	Peripheral Glands	1	01	7	1	-	90	15	9	4	8	88	17	-	3	01	94	109
Second S			1	9	12	04	9	=	37	15	23	21	3	46	22	17	17	239	276
1980 Section 1			64	-	61	-	3	0	14	1	9	1	6	9	9	64	1	23	2
Second	19		1		1	1		61			-	1		200	01	1	61	1000	13
December December	26	Peripheral	1		1	-	69	1			1	1		1000	1	1	1	-	8 37
Second S			-			01	. 7					-		-	90		200		101
Second				64	1			800	12			7	7	4	10	1	-1	24	36
Peripheral		LanimobdA.	1	1	-	-	-	1	60	64	1	00	100	1	-	-	69	18	12
Clands C	1927		T	T	T	ī	-	-	01	-	T	64	-	04	-	64	1	œ	10
Solution -			1	1	8	-	10	-		-	1	1		1	1	-	1		81
State Stat		1000000	-	01	4		6												85 27
Second			1	-	-	04	-			-		3				-	-		7 15
Peripheral	192		1	1		1		1				-	200	-		-	1		=
Dintegrate Din	90		1	1	7	1	-	8	00	1	01	01	=	00	-	-	1	25	33
Second S		The state of the s	1	-	7	61	80	7	08	60	6	9	21	7	=	60	64	99	98
			-	1	7	4	8	8	8	-	100	7	12	6	7	1	3		57
Peripheral	11		-	1	-	1	-	6.9	10	04	04	01	9	21	01	64	-	1	24
IstoT	626		1	1	1	-		-			1-	1			01	04	-	-	16 32
Direction Dire	1	-	1	1			-	-	1	1	1		-	1	100	-			81
		pur souog		1						1	1						1		8
			11	-	-		1	-		64	-	100		-	-	-	-	12	19
	193	Other Organs	1	1	1	-	8	04	9	1	4	04	0.0	-	-	-	-	12	82
O Peripheral Peripheral O Peripheral O Peripheral O	9		1	1	4	7	01	60	13	00	63	01	13	9	1	1	100	26	39 110

PRESENT CONDITION OF PATIENTS TREATED IN PREVIOUS YEARS SHOWING CONDITION OF THOSE WHO WERE TREATED FOR NON-PULMONARY TUBERCULOSIS.

936	Other Organs Peripheral Glands	1	1	1	14 5	9	3 13 41	23 23 112	1	1	1	1	-	1	1	1	2 1	25 24
-	IsnimobdA	1	T	1	+	6	61	15		i	İ	1	-	-	-		60	18
100	Bones and Joints	-	1	-	=	15	23	19	1	i	1	1	1	-	1	04	8	54
	Total	-	1	-	30	36	451	113	-	1	1	1	00	-	1	01	18	131
1 0	Peripheral Glands	1-	1	1	4	6	19	33	1	T	1	1	64	1	1	1	64	35
1935	Other Organs	1	1	1	00	=	9	52	1	1	1	1	01	-	-	-	10	30
	IsnimobdA	1	1	1	7	8	6	10	-	1	1	1	+	1	7	1	90	18
	Bones and Joints	1	1	-	=	13	17	45	1	1	1	1	1	1	64	-	3	48
	LetoT	3	01	9	27	32	36	106	9	1	1	1	6	60	7	64	21	127
1	Peripheral Glands	-	-	64	C4	9	=	23	64	1	1	1	60	1	1	1	60	26
1934	Other Organs	1	1	1	2	4	60	17	61	1	1	1	61	-	01	-	9	53
3	IsnimobdA	1	-	1	-	9	7	12	1	1	1	1	-	1	8	-	10	17
	Bones and Joints	01	1	4	7	16	18	40	64	1	1	1	60	64	64	1	7	19
	Total	10	9	7	20	29	4	Ξ	=	1	3	3	17	4	4	64	83	144
8	Peripheral Shands	-	64	3	4	9	00	24	4	1	-	01	10	1	1	1	00	65
1933	Other Organs	1	-	-	04	9	8	13	64	1	1	1	61	64	64	1	9	19
	IsnimobdA	1	1	64	1	7	7	13	1	1			8	1	-	1	20	18
	Bones and Joints	4	8	_	7	10	58	19	10		-	-	7	64	-	63	1	75
	LetoT	8	04	6	15	61 3	8	89	10	20	1 3	40	18	- 12	4	0	52	120
23	Peripheral Shands	1	11	4	3	1 2	5	9 14		-	-	1 2	5	3	_	-	7 11	35
1932	Other Organs	1	1	-	3 5	3	01		_	64	64		60	3	-			16
	Joints	- 2	01	8	4			01	C1	62		69	90	9	-	4	=	64
	Bones and	-	100	12		8 13	25 11	89 35	7	4	9	51	6	20	83	90	60 23	200
	Glands		-	5 1	3 17	1	69	15 6	1	1	3	10 1	10	-	1	-	25 6	40 128
1931	Other Organs Peripheral Glands	1	1	1	3	-	04	9	1	<u>'</u>	-	1	64	-	1	1	-	10
18	IsmimobdA	-	1	01	1	64	04	7	6	-	01	3	uo	1	62	04	15	- 53
100	Joints	1	4	un.	=	uc.	15	9	4	3	I	04	64	60	-	20	16	26
	Bones and	M.	12		M.	H.				M	14	g g	981	M.	E.	g		
110	to		npv	Children	-	py	Children	Register		-	npv	Children	otherwise Register	-	npy	Children	Dispensary	
	the year	-410		ਹ	1		0	y nber	nary	-	-	0	LLY R	-		0	Dis	3
STATE OF THE PARTY	Condition at the time of the last record made during the year to which the return relates	-	Arrested			Disease not	Arrested	n Dispensary	Transferred to Palmonary		Discharged as	Total Control	Lost sight of, or otherwise removed from Dispensary Register		Dead		written off Register	GRAND TOTALS
	made hich	1	4			Dis	4	Total on	Fransfer	13	Disc		st sig				Total	
100	cord							H					75				ř	

SUMMARY.

- Not less than 90 per cent. of the total number notified in the City as suffering from pulmonary tuberculosis were examined at the Centre.
- The number of patients who were visited and examined in their own homes by the Medical Staff was 1,123. This figure represented an increase when compared with that of the previous year.
- During the year, 6,750 screen examinations were made in the radiological section, and films
 were taken in 2,303 cases. There was an increase both in the number of screen examinations, and in the number of films taken, when compared with the figures for the year 1935.
- 4. Amongst new patients suffering from pulmonary tuberculosis examined during the year, 55.8 per cent, of the adults presented tubercle bacilli in their sputum, and 10.6 per cent, of the children. These figures show that amongst the adults notified as suffering from pulmonary tuberculosis, there were ten per cent, less with a positive laboratory finding than in the year 1935. The number of children who gave a positive laboratory finding for tubercle bacilli was about two per cent, above that recorded for the year 1935, which is probably due to the intensive investigation which these patients undergo.
- 5. Of the 926 primary cases suffering from pulmonary tuberculosis examined during the year 20.2 per cent. were classified as Group I; 45.8 per cent. were classified as Group II; and 34 per cent. as Group III.
- 6. Of the patients treated during the periods 1913-1936, some 12,563 presented tubercle bacilli in their sputum. Of this number 25.5 per cent. are known to be still alive; 70.5 per cent. are known to be dead, and 4 per cent. have been lost sight of.
- During the same period, 13,257 patients whose sputum contained no tubercle bacilli were treated. Of this number 62.2 per cent, are known to be alive; 20.3 per cent, are known to be dead, and 17.5 per cent, have been lost sight of.
- During this period (1913-1936) 1,514 patients suffering from non-pulmonary tuberculosis were treated. Of this number 76.2 per cent. are known to be still alive; 14.1 per cent. are known to be dead, and 9.7 per cent. have been lost sight of.

SANATORIA.

TOTAL NUMBERS TREATED IN SANATORIA AND DURATION OF STAY.

During the year 1936, there were 1,601 patients discharged from all the Sanatoria. Included in this number are 73 patients suffering from non-pulmonary tuberculosis who were treated in Institutions subsidised by the Health Department. Of the 1,601 patients, 845 were adult males, 507 were adult females, and 249 were children.

The average duration of stay was 116.2 days for adult males, 149.1 days for adult females, 263.9 days for male children, and 228.9 days for female children, excluding those admitted for observation and who, proving negative, remained only for a short time, and excluding those "hospital" cases with advanced disease who died within a few days of their admission.

OCCUPATIONAL THERAPY IN SANATORIA.

In the Municipal Sanatoria attention is paid to the question of occupational therapy with the object of interesting and employing suitably a certain number of the patients whose condition admits of it. The fitness of the patient to engage in occupational therapy is always judged by the medical officer, who has the patient under constant supervision. The occupation to be followed and the number of hours to be devoted to it are both decided upon by the doctor after careful consideration. At Salterley Grange Sanatorium, the physical condition of the patients is usually so good, and their disease so early that temporary employment suitable to their needs can be found in the gardens, and upon the estate. At West Heath and Yardley Green Road Sanatoria, facilities for occupational therapy have existed for many years. At West Heath the patients are employed in basket making. Patients at Romsley Hill Sanatorium are also instructed in basket and leather work.

At Yardley Green Road Sanatorium patients are instructed in basket making, leather work of different kinds, and in mat making, etc., and considerable development has taken place here during recent years.

It should be noted that the children attending the Sanatorium School at Yardley Green Road are taught various forms of handicraft work, including leather work, pewter work, raffia work, basket making, etc. Many children who are confined to bed are also taught handicrafts. Schooling at Yardley Green Road Sanatorium is also provided for suitable children who are ambulant and immobilised, three school teachers being employed on the staff.

Results of Treatment of Patients Discharged from Residential Institutions
During the Year 1936.

	Class T.B. minus. Class T.B. plus. GROUP I.	Quiescent Not quiescent Died in Institution Quiescent Not quiescent Died in Institution	M. 8 94 8 - 7	F. 9 45 2	2 12	M. 2 37	F. 8 24	Ch.	M. 1	F. 3	Ch.	M.	F.	Ch.	M.	F. 21	Ch.	39
	Class Class C.B. plus. GROUP I.	Not quiescent Died in Institution Quiescent Not quiescent Died in	94	45 2	12				1	3	-	1	1	2	12	21	6	39
	Class Class C.B. plus. GROUP I.	Died in Institution Quiescent Not quiescent Died in	8	2		37	24	1 22					1	19		100		
_	I.B. plus. GROUP I.	Institution Quiescent Not quiescent Died in	=	-	1			21	8	17	13	1	2	14	140	88	60	288
_	I.B. plus. GROUP I.	Not quiescent Died in	7	-		2	_	_	-	-	1	-	_	-	10	2	2	14
_	I.B. plus. GROUP I.	Died in	7		-	1	1	-	-	-	-		-	-	1	1	-	2
_	1517			4	-	7	2	-	-	1	-	-	-	-	14	7	-	21
_	Class		-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	1
	C1855	Quiescent	-	-	-	1	2	-	1	1	-	-	-	-	2	3	-	
	Γ.B. plus.	Not quiescent	117	42	-	56	37	-	20	34	-	10	8	1	203	121	1	325
1	GROUP II.	Died in Institution	9	4	_	4	3	_	4	6	_	2	1	-	19	14	mit in	33
	Class	Quiescent	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	
7	Γ.B. plus.	Not quiescent	92	41	-	35	33	2	23	13	07	5	4	-	155	91	2	248
(GROUP III.	Died in Institution	40	32	-	13	15	_	9	10	-	6	7	_	68	64	-	133
To	OTALS (Puln	nonary)	375	179	15	158	125	25	66	85	14	26	25	17	625	414	71	1110
		Quiescent	-	-	2	-	-	3	-	-	1	1	-	5	1	-	11	12
1	Bones & Joints.	Not quiescent	3	1	12	3	1	9	-	2	16	6	2	6	12	6	43	61
1	JOINTS.	Died in Institution	. 1	-	1	-	-	_	-	1	1	_	_	-	1	_	2	5
1	Авром-	Quiescent	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1
	NAL.	Not quiescent	2	-	-	3	2	1	1	3	-	_	-	1	6	5	2	13
	her slow	Died in Institution	1			_	_		-	_	_	-	_	_	1	-	_	1
	OTHER	Quiescent	_	_	1	-	1	_	-	_	-	-	-	-	-	1	1	2
(ORGANS.	Not quiescent	2	1	-	3	1	1	2	-	-	2	1	1	9	3	2	14
- 00	District of the last	Died in Institution	-	_	_	_	_	_	_	_	_	100	_	_	_	_	_	_
-		Quiescent	_	_	3	_	_	-	_	_	_	_	-	1	_	-	4	4
E	PERIPH- ERAL GLANDS.	Not quiescent	T	2	1	-	-	4	-	-	5	-	-	-	-	2	10	12
		Died in Institution	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-

NOTE—"Quiescent" disease indicates that there are no symptoms of tuberculosis, and no signs of tuberculous disease except such as are compatible with a completely healed lesion, and in which sputum, if present, is free from tubercle bacilli.

PATIENTS ADMITTED TO SANATORIA FOR OBSERVATION AND INVESTIGATION.

The beds utilised for the purpose of observation are at Yardley Green Road Sanatorium. Observation patients are those who, after careful and repeated examinations at the Centre, are found to be indefinite, either as to the absence or presence of tuberculosis or as to its activity or otherwise when present, and are usually admitted for a period varying from four to six weeks. Of the 1,528 patients discharged from the Sanatoria, 216 or 14 per cent. were admitted primarily for observation to Yardley Green Road Sanatorium. The medical findings are shown in the following table:—

Diagnosis on	Fo	r Pulr	nonar	y Tub	erculo	sis.	10		Non-pu ubercu		ary		3/35	T	
discharge from observation.		y uno		Stay over 4 weeks.		Stay under 4 weeks.		Stay over 4 weeks.			TOTALS,				
	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch
Tuberculous	 6	7	7	4	3	20	1	-	1	-	1	4	11	11	32
Non-tuberculous	 15	7	7	46	10	48	1	1	-	1	-	9	63	18	64
Doubtful	 2	2	10	-	1	1	1	-	-	-	72	1000	3	3	11
						-	315								
TOTALS	 23	16	24	50	14	69	3	1	1	1	1	13	77	32	107

CLASSIFICATION OF PATIENTS' DISEASE.

In this table the patients are scheduled according to the classification of the Ministry of Health, as follows:—

- Group I. Cases with slight constitutional disturbance, if any, e.g., there should not be marked acceleration of pulse nor elevation of temperature, except of very transient duration; gasfro-intestinal disturbance or emaciation, if present, should not be excessive. The obvious physical signs should be of very limited extent, as follows:—Either present in one lobe only, and in the case of an apical lesion of one upper lobe not extending below the second rib in front and not exceeding an equivalent area in any one lobe; or where these physical signs are present in more than one lobe, they should be limited to the apices of the upper lobes and should not extend below the clavicle and the spine of the scapula. No complication (tuberculous or otherwise) of prognostic gravity should be present. A small area of dry pleurisy should not exclude a case from this group.
- Group III. Cases with profound systemic disturbance or constitutional deterioration; with marked impairment of function either local or general, and with little or no prospect of recovery. All cases with grave complications whether tuberculous or not, should be classified in this Group, e.g., diabetes, tuberculosis of larynx or intestines, etc.
- Group. II. All cases which cannot be placed in Group I and III. Patients suffering from non-pulmonary tuberculosis are classified according to the site of the lesion and are placed under Group IV.

SPUTUM RESULTS AFTER SANATORIUM TREATMENT.

Of the 1,255 adult patients discharged from the Sanatoria suffering from pulmonary tuberculosis during the year, 914 or 72.8 per cent. presented tubercle bacilli in their sputum whilst in the Sanatoria.

Sanatoria	No sputum persisting	No sputum becoming T.B.—	No sputum becoming T.B.+	T.B.— persist- ing	T.B.— becoming T.B.+	T.B.— becoming no sputum	T.B.+ persist- ing	T.B.+ becoming T.B	T.B.+ becoming no sputum
Yardley Green Road Sanatorium	52	2	2	97	3	17	325	* 10	14
Romsley Hill Sanatorium	15	1	100	33	-	8	178	4	15
Salterley Grang Sanatorium	33	1	1	17	-	25	57	9	11
West Heath Sanatorium	18	-	-	19	_	3	265	3	17
	118	4	3	166	3	53	825	26	57

OCCUPATIONS.

In the following table the occupation of both male and female patients are shown:-

					Males.	Females
Out-door occupation	ons	***		***	71	1 11 22 22 22 22
Domestic occupation	ons				15	217
Sedentary occupat	ions	***	***		70	55
Commercial occupa	itions				31	16
Engineering occup					141	82
Metal Trades					173	43
Building Trade					45	1
Other Trades	***	***	111	***	228	67
					774	481

GAIN OR LOSS IN WEIGHT.

Amongst a total of 1,370 patients discharged from Sanatoria after treatment, many of whom were advanced hospital cases admitted for the purpose of prophylaxis, 128 or 9.3 per cent. remained stationary, and 1,182 or 86.3 per cent. gained weight in amounts varying from I to 40 lbs.

WORKING CAPACITY.

The working capacity of patients is shown in the following tables:-

	Adult Males.	Adult Females.	Children.	Total
Impaired working capacity becoming unimpaired	. 27	18	29	74
Impaired capacity for work persisting	974	196	62	632
Impaired capacity for work becoming totally				
incapacitated	. 22	18	-	40
Total incapacity for work becoming impaired	. 118	. 89	12	219
Total incapacity for work becoming unimpaired	0	3	4	9
Total incapacity for work persisting	60	35	3	98
Died in Sanatoria	171	122	5	298
	774	481	115	1,370
	-	-		

SUMMARY.

- The average duration of patients' stay for all the Sanatoria was 116.2 days for adult males; 149.1 days for adult females; 263.9 days for male children, and 228.9 for female children.
- Of the patients from all sanatoria no less than 14 per cent. passed through the observation beds at Yardley Green Road Sanatorium.

3. 42.2 per cent. of the patients were in Group III; 38.5 per cent. were in Group II; 13.7 per cent. were in Group I; and 5.6 per cent. were in Group IV.

There were 72.8 per cent. of all patients discharged from Sanatoria who presented tubercle bacilli in their sputum whilst in the Sanatorium.

4.

5. 1,182 or 86.3 per cent. of all patients discharged from Sanatoria gained weight in amounts varying from 1 to 40 lbs.

Some 367 or 45.5 per cent. of the deaths from tuberculosis occurred in "Hospital" beds in various Sanatoria and Hospitals controlled by the Public Health Committee.

TREATMENT IN THE LIGHT CLINIC

PATIENTS COMPLETING TREATMENT DURING 1936.

The total number of patients completing a satisfactory course of treatment during the year

This number includes 23 adult males, 15 adult females, 11 male children, and 16 female children.

These completed c					Adult Males.	Adult Females.	Male Children.	Female Children.
Tuberculous	joints a	nd bon	es		5	1	5	4
Tuberculosis	of abdo	men			4	4	1	0
Cervical ade	enitis			***	5	4	3	9
Lupus					2	. 3	2	3
Sinus						_	_	_
Other Orga			***	***	7	3	_	
					_	_	-	
					23	15	11	16

PATIENTS CONTINUING TREATMENT.

On the 31st December, 1936, 154 were continuing treatment in the Light Clinics and many showed an improvement in their condition.

VENEREAL DISEASES.

The City Council maintain three centres for the treatment of venereal diseases, one for men, women and children at the Birmingham General Hospital, one for children at the Children's Hospital, and one for mothers and young children in the same building as that occupied as a Maternity and Child Welfare Centre in Lancaster Street. In addition cases of venereal disease come under treatment at the Venereal Diseases Clinic maintained in connection with the Women's Venereal Diseases Ward in the Birmingham Infirmary.

At these centres 353 new cases of syphilis, 7 of soft chancre, 971 of gonorrhoea and 1,988 cases suffering from conditions other than venereal disease were seen in 1936, as follows:-

					New C.	ases.	Other
General Hospital				Syphilis. 308	Chancre.	Gonorrhoea, 901	Conditions.
Children's Hospital		***	***	15	-	5	46
Aston Street Centre (n	ow Lan	caster	St.)	17		40	649
Birmingham Infirmary				13	-	25	9
			Total	353	7	971	1,988

The new cases coming under treatment for the first time, and not having had previous treatment at other Centres, are indicated in the following table. It should be noted that cases who, attending our clinics for the first time, have been treated at clinics elsewhere, have been excluded for each year:

ther.
itions.
29
61
20
03
76
82
09
48
25*
87
88

*These figures include those for the Birmingham Infirmary for the first time.

The total attendances for the last nine years were:-

1928		***	***		78,261
1929					78,098
1930					88,589
1931					93,280
1932	***	***	***		100,313
1933		***	***		103,925
1934		***	***		*110,716
1935					121,788
1936			***		124,387

^{*}These figures include those from Birmingham Infirmary for the first time.

These figures justify comments closely in line with those of last year:-

- (a) That the clinics are being visited to a steadily increasing extent by patients who prove not to have venereal disease; that is to say, they are being used in a truly preventive sense by both medical practitioners and the general public.
- (b) That over a series of years there has been some tendency towards reduction in the number of cases of syphilis. The trend in regard to new cases of gonorrhoea is by no means so clear. On the whole the incidence appears almost stationary.
- (c) That the patients needing treatment attend with a steadily improving persistence, and undergo a correspondingly thorough treatment, as indicated by the growth in attendances in successive years.

Further particulars of the work done at the Centres in 1936 are as follows:-

			Soft		Other	
I control to the same of t		Syphilis,	Chancre.	Gonorrhoea.		
No. of cases under treatment, January 1st,	1936	1,214	12	606	254	
New cases under treatment during year		353	7	971	1,988	
Total attendances		31,974	106	68,358	23,949	
Number discharged after completion of tre	atment					
and observation		146	8	499	1,951	
Number transferred to other centres		112	3	206	_	
Number who ceased to attend:-						
Before completion of treatment		185	PRINCIPAL SERVICE	184-		
After completion of treatment, but						
final tests as to cure		23	5	134	-	
Number of cases of congenital syphilis	treated	-				
Under 1 year of a			6			
		- ***	e			
Aged 1—5 years		***				
Aged 5—15 years		111 111	23			
Aged 15 years and	d over	*** ***	43			
			_			
			78			
			-			

Publicity and Educational Work.

A grant of £420 was paid by the Public Health Committee towards the expenses of the Birmingham Branch of the British Social Hygiene Council. The work of this Branch is invaluable to the City, both from the point of view of advice to the individual needing social help, and from that of the systematic instruction of the general public in the ideals and practice of social hygiene. The audiences to whom lectures and addresses are given by its lecturers are ever growing in scope and in numbers.

During the year addresses were given to approximately 30,000 persons, the talks including courses of lectures and general addresses in factories and to social and religious organisations, and to numbers of unemployed in the occupational centres for both men and women, together with special instructional lectures to a large variety of special bodies. A large amount of personal advice continues to be given by the officers of the Branch.

Twelve courses of publicly advertised lectures for men and women were provided by officers of the Birmingham Branch.

The Branch has also published three new pamphlets, dealing with the objects of the work, during the year.

VII. MATERNITY AND CHILD WELFARE.

(Report by Dr. ETHEL CASSIE).

CHIEF STATISTICS, 1986.

Birth-Rate 15.8 per 1,000. (16,386 live births).
Illegitimate Birth-Rate 3.4 per cent. (553 illegitimate births).
Infant Mortality Rate 62 per 1,000 live births (1,021 deaths).
Stillbirths 35 per 1,000 live and stillbirths (590 stillbirths).

Stillbirths 35 per 1,000 live and stillbirths (590 stillbirths).

Neo-natal Mortality 30 per 1,000 births (489 deaths). (Infant deaths in the first four weeks of life).

Deaths from one to two years 8.8 per 1,000 of the age population (131 deaths). Deaths from two to five years 3.3 per 1,000 of the age population (145 deaths). Maternal Mortality in Childbirth 3.53 per 1,000 live and stillbirths (60 deaths). Child Population under five (estimated) 71,352.

GENERAL COMMENTS.

Births.

There has been a small rise in the birth-rate, which occurred in the middle and outer ring of wards.

Infant and Child Mortality.

The infant mortality has fallen from 64 per 1,000 births in 1935 to 62 in 1936.

A decrease of 43 deaths occurred during the "neo-natal" period, under the age of one month, while there was an increase of 40 deaths between one and twelve months of age, as compared with the figures for 1935.

The neo-natal death-rate (29.8 per 1,000 live births) is lower than it has been since 1930, when it was 28.7 and lower than the five years' average 1931 to 1935 (32.3).

The number of stillbirths has risen slightly, and is equivalent to 35 per 1,000 of the live and stillbirths. The total loss of life from stillbirths and neo-natal deaths amounts to 1,079 while the deaths of infants between the age of one month and twelve months total 532.

The stillbirth rate, neo-natal deaths and maternal mortality in childbirth have closely associated factors, and continue to show no material reduction.

The death-rate among illegitimate infants is rather higher than in the previous year.

Some further slight fall has occurred in the death-rate of children from one to two years. The rate from two to five years has also fallen.

Maternal Mortality in Childbirth.

In Birmingham the maternal mortality for the year shows an increase as compared with 1935 (3.53 per 1,000 total births against 3.40), while the rate for England and Wales, as a whole, shows a reduction (3.65 against 3.93). The rise in Birmingham is due to an increase in deaths from haemorrhage and from certain accidents of pregnancy. It is hoped that the establishment of the emergency service, referred to later in this report, will reduce the latter.

Puerperal Sepsis and Pyrexia.

Detailed information has been obtained in all notified cases. There has been no definite spread of infection in the practice either of midwives or of institutions.

BIRTHS.

During 1936 there were 16,386 live births (8,415 males and 7,971 females) belonging to Birmingham, and 590 stillbirths, making a total of 16,976. The live births number 475 more than in the previous year, and were equal to a birth-rate of 15.8 against one of 15.4 in 1935. The birth-

rates of the past 36 years are given in Table I in the Appendix. It will be seen that except for fluctuations during the war period, there was a steady decline in the rate from 31.4 in 1901 to 14.7 in 1933, but in 1934, 1935 and 1936 small increases were recorded.

The Birmingham birth-rate is among the higher rates in the list for the great towns, as will be seen from the figures below:—

		BIRTH	-RATES	IN L	ARGEST	Town	NS.	
London				2				13.6 per 1,000
Glasgow						***	***	19.7 ,,
Birmingham			***					15.8 ,,
Liverpool	***		***	***		***		20.1 ,,
Manchester	***	***	***			***	***	14.7 ,,
Sheffield				***	***		***	15.2 ,,
Leeds	***	***	***		***	4+4	***	15.0 ,,
Edinburgh				***	***	444	***	15.9 ,,
Bristol						***		12.3 ,,
Hull			***	***	***		***	18.4 ,,
Bradford	***						***	13.4 ,,

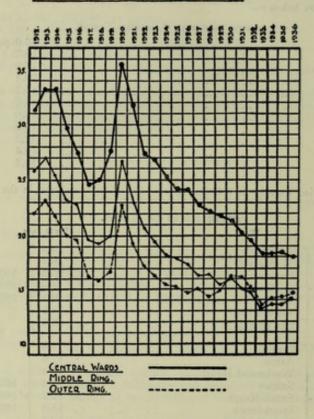
The birth-rate varied greatly in different parts of the City, as shown in the following table:-

	BIRTH RATES IN WARDS.	
	Ward	Birth rate
	St. Paul's	19.4)
	St. Mary's	18.4
	Duddeston and Nechells	20.0 1936 Average 18.0
Central Wards:	St. Bartholomew's	18.8 > 1935 Average 18.4
	St. Martin's and Deritend	18.3 1934 Average 18.2
	Market Hall	14.5
	Ladywood	16.3
	[Lozells	17.5)
	Aston	17.9
	Washwood Heath	12.4
	Saltley	15.4 1936 Average 14.2
Middle Ring:	≺ Small Heath	12.2 > 1935 Average 13.6
	Sparkbrook	15.0 1934 Average 13.6
	Balsall Heath	13.3
	Edgbaston	8.6
	Rotton Park	15.3
	(All Saints'	14.8]
	(C-1-	1113
	Soho Sandwell	11.1
	Commence of the commence of th	11.8
	Handsworth	13.8 23.4
	Perry Barr	11.0
	Erdington	141
	Gravelly Hill	100
	Stachford	10.0 1026 Augrage 14.9
Outer Ring:	Vandin	147 1025 Augrage 143
Outer King .	Annalda Casan	14.7 1 1024 Asserted 14.1
	H-II C	150
	C11711	10.4
		100
	Moseley and King's Heath Selly Oak	140
	Translation No.	10.0
	Nonth Cald	19.0
	TT. A.	100
	(Harborne	12.2)

The figures for individual Wards are not comparable with those in previous years owing to many alterations in ward boundaries in November, 1934, but the groups (central, middle and outer) are roughly comparable with those for previous years.

The movements in the birth-rate in the three groups of Wards are indicated in the diagram below.

BIRTH RATE IN GROUPS OF WARDS.



ILLEGITIMATE BIRTHS.

During 1936 there were 553 illegitimate births belonging to Birmingham. Of these 528 occurred in the City and 25 in other places. The illegitimate births were in the proportion of 33.7 per 1,000 of the total live births, as against 33.3 for 1935.

The figures for the past 10 years were as follows:-

			Illegitimate Births per 1,000 live births		
1927	 	 		36.5	
1928	 	 		33.6	
1929	 	 		36.6	
1930	 	 		35.8	
1931	 	 		33.8	
1932	 	 ***	***	32.9	
1933	 	 		36.8	
1934	 	 		36.6	
1935	 	 		33.3	
1936	 	 		33.7	

INFANT AND CHILD MORTALITY.

The deaths of infants under one year of age numbered 1,021 and were equal to an infant mortality rate of 62 per 1,000 births.

The infant mortality rates for a number of years are shown in the table below:-

INFANT MORTALITY RATE.

				Birmingham,		England and Wales
1901-05			 	157		138
1906-10		****	 ***	131		117
1911-15			 ***	126		110
1916-20	****		 	94		90
1921-25			 	80		76
1926-30			 	70		68
1931-35			 	67		62
1927			 	75		70
1928			 	65		65
1929			 	79		74
1930			 	60		60
1931			 	71		66
1932			 	67		65
1933		***	 	66		64
1934			 	68		59
1935			 	64		57
1936			 	62	***	59

The infant mortality rates in Birmingham and ten of the largest British towns for 1924 and 1935 and 1936 are shown in the sub-joined table:—

			Rate per 1,000 Live Births.			
			1924	1935	1936	
London	 	 1	69	58	66	
Glasgow	 	 ***	119	98	109	
Birmingham	 	 	83	64	62	
Liverpool	 	 	103	83	75	
Manchester	 	 	100	71	77	
Sheffield	 	 	89	52	59	
Leeds	 	 	108	64	65	
Edinburgh	 	 	89	70	68	
Bristol	 	 	71	43	48	
Hull	 	 	87	72	65	
Bradford	 	 	92	64	83	

INFANT MORTALITY IN WARDS.

The appended table shows the infant mortality rate in each of the Wards of the City in 1936. The average mortality in the groups of Wards ten years ago is given for comparison.

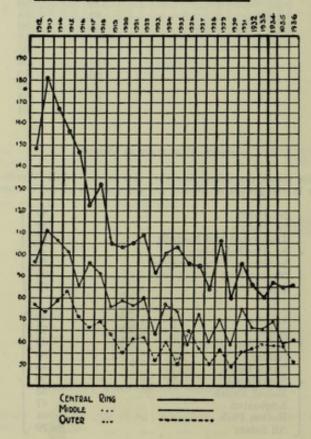
	St. Paul's			87 7	
	St. Mary's	1000		89	Average:
	Duddeston and N	echells		82	In 1936—87
Central Wards:	St. Bartholomew'	S		73 >	In 1935—85
	St. Martin's and l	Deritend		99	In 1934-87
	Market Hall			90	In 1925-104
	Ladywood			87	
	Lozells			48	
	Aston			78	173 5 5 5 5
	Washwood Heath			47	Average:
	Saltley			80	In 1936—62
	Small Heath			48	In 1935—59
Middle Ring:	√ Sparkbrook			76	In 1934—69
Harrison Co.	Balsall Heath			55	In 1925—74
	Edgbaston		A1015 - 1100F	47	
	Rotton Park			61	
	All Saints'			79	

Outer Ring:

	Soho		*****	NAME OF TAXABLE	-	93 7	
	Sandwell					40	
	Handsworth		4000			46	
	Perry Barr					56	
	Erdington					53	
	Gravelly Hill					34	
	Bromford	20110	******	2010	*****	33	Average:
	Stachford				*****	69	In 1936—52
)	Vardley	no.	*****	0001	*****	62	In 1935—58
1	Acocks Green			*****	*****	50	In 1934—58
	Hall Green		*****		*****	53	In 1925—50
	Sparkhill				*****	53	III 1320-00
-	Moseley and Kin	or's He	anth	0.110	*****	54	
		18 5 110	satn	ante	*****		
	Selly Oak	10114	20100	3.019	4000	41	
193	King's Norton				4000	37	
9	Northfield			anni.	4000	53	
	Harborne				*****	65	

The following diagram shows the fall in infantile mortality in each of the three groups of Wards during the past 25 years. It will be noted that the decrease has been much more marked in the Central areas than in the other parts of the town, and that the range in the sectional rates last year was only from 52 to 87 whereas in 1913 it was from 74 to 181. The approximation of the rates in the middle and outer rings is, perhaps, associated with the fresh distribution of population arising from the re-housing operations of the City.

INFANT MORTALITY PATES.



125
INFANTILE MORTALITY DURING THE YEAR, 1986.

Deaths from stated Causes in Weeks and Months under One Year of Age.

Cause of Death.	52	-	Wee	ks.		Total under One		Month	s	destr	Total Deaths under
11		0	1-	2-	3-	Month.	1	3-	6—	9-	One Year
W. J.					1221	-			3	5	0
Measles Scarlet Fever	***						9		75.0	1000	8
110 1 0 1	***	77			1	1	15	17	19	14	66
Diphtheria and Croup	***				_		1	1	1	1	4
7 0	***					59	1	1	1	1	3
Tuberculous Meningitis	***						1	-	1	1	2
Abdominal Tuberculosis						1000			1	1	
Other Tuberculous Disea						11.13	2	1	4	2	9 7
Districts	100						2	2	3	-	7
CLilla				1		1	-		0	1	2
Cerebro-Spinal Fever	***	_		_			1	1	3	3	8
Meningitis (not Tubercul	one)				_	100	î		-	1	8 2 3
Convulsions			1		_	1	i	1			3
Bronchitis	•••	1	i	1		3	2	5	2	2	14
Pneumonia (all forms)	-	4	i	5	4	14	34	40	39	22	149
Gastritis		_	-	_	_		_	-	1		1
Diarrhoea, Enteritis, etc.			1	1	2	4	23	34	14	7	82
Congenital Malformation		46	14	7	6	73	18	9	7	3	110
Premature Birth		240	12	11	6	269	21	1	i	_	292
Atrophy, Debility and	100			1000	188	200	Ser.	11.70		1000	
Marasmus		5	2	_	_	7	8	2	1	2	20
Atelectasis		28		1	1	30	3		1020	200	33
Injury at Birth		52	4	i	_	57	4	_	_		61
Neglect (under 3 months		3			_	3		_	_		3
Suffocation (overlying)	,	_	_	1		1	1	1	_	_	3
Other Causes		16	4	3	2	25	24	43	27	19	138
All Course		205	40	20	-00	100	100	150	100	02	1021
All Causes		395	40	32	22	489	162	159	128	83	
Rate per 1,000 live Birt	ns	24.1	2.4	2.0	1.3	29.8	9.9	9.7	7.8	5.1	62

INFANTS' DEATHS FROM " OTHER CAUSES." (See preceding Table).

	1936.		193	5,	1934.	
	Under 1 Month.	Total	Under 1 Month.	Total.	Under 1 Month.	Total.
Acute otitis media		32	_	28	1	33
mastaiditis	1	22	- 00	2	-000	4
contic infactions	i	19	4	22	12	36
Your growths	1	1		_	-1001	3
Accidente	3	14		5	- 101	10
Samuella I II.	18	23	13	18	10	19
Other conditions	2	27	9	46	20	43
	25	138	26	121	43	148

The next table shows the number of infant deaths from the more prominent causes of death during the last five years.

T	D		DIFFERENT	C
INFANT	DEATHS	FROM	DIFFERENT	LAUSES.

			1936.	1935.	1934.	1933.	1932.
Measles		*****	8	11	- 4	18	9
Whooping cough			66	26	52	. 14	60
Influenza		*****	3	5	6	8	11
Tuberculosis		****	12	12	7	14	8
Convulsions	****		- 3	- 4	- 4	. 10	17
Bronchitis	*****		-14	9	16	36	19
Pneumonia			149	136	144	185	195
Diarrhoea and enteriti	s	-	82	115	127	106	122
Suffocation (overlying))	*****	3	- 4	0	3	4
Congenital malformati	on		110	114	97	113	96
Premature birth			292	330	310	295	323
Injury at birth			61	56	61	36	48
Atrophy, debility and	marasm	us	20	18	20	20	30
Other causes	****	*****	198	184	213	140	178
TOTAL	****		1,021	1,024	1,061	998	1,120

INFANT MORTALITY AND ILLEGITIMACY.

The following figures show the relative mortality among legitimate and illegitimate infants for the past year:—

	No. of Births.	Deaths under 1 year,	Infant mortality per 1,000.
Legitimate	 15,833	963	61
Illegitimate	 553	58	105

The infant mortality rates during recent years were as follows:-

Infant Mortality Rates per 1,000 Births.

	********	continuity removes	per 1,000 Darens.	
	Legitimate.	Average.	Illegitimate	. Average.
1921	81 7		135)
1922	82		178	
1923	69	78	151	149
1924	81		142	10.000
1925	76		139)
1926	70)		150)
1927	73		135	
1928	63	68	111	128
1929	77	00	128	100
1930	58		117	of the later of
1930	36		11,	,
1931-	70]		122	7 20000
1932	65		125	12000 B
1933	64		119	
1934	66	66	106	113
1935	63		91	
	00)			,
1936	61		105	

NEO-NATAL MORTALITY.

During the last 25 years there has been a decline in the mortality rate amongst children under 4 weeks of age, as will be seen from the table below.

age, as will	Birming			ENGLAND AND	Warne
	Rate per 1,000			Rate per 1,000	TYALBA,
	live births.		Average.	live births.	Average.
1912	42.1	-		38	
1913	41.0		10.0	39	Lame
1914	42.3	~	40.6	39	38
1915	37.0	l.		38	
1916	35.8	ii .		37	
1917	38.3			37	
1918	35.7	-	36.3	36	37
1919	37.1			40	
1920	34.4	2		35	
1921	35.0			35)	
1922	34.4			34	
1923	31.1	}	33.5	32	33
1924	34.6			33	
1925	32.2			32	
1926	31.1			32	
1927	33.3			32	
1928	29.7	,	31.0	31	33
1929	32.3		-	33	all set
1930	28.7			31	
1931	32.2			32	
1932	32.7			32	
1933	30.8	62000	32.3	32	31
1934	32.6		02.0	31	01
1935	33.4			30	
		10		30	
1936	29.8			-	

STILLBIRTHS.

The net number of stillbirths for the year was 590, equal to 35 per 1,000 of the live and still-births, as compared with the rate of 33 in 1935.

The following table shows the number of stillbirths over a number of years:-

ro lamos in the series and	Stillbirths,	Average	Percentage of total live births,	Average
1912 1913 1914 1915	667 679 762 732	710	3.0 2.9 3.3 3.5	3.2
1916 1917 1918 1919 1920	729 580 590 744 911	711	3.5 3.3 3.5 3.8 3.6	3.5
1921 1922 1923 1924 1925	804 660 629 544 609	649	3.6 3.3 3.3 3.0 3.4	3.3
1926 1927 1928 1929 1930	585 521 595 590 688	596	3.3 3.0 3.5 3.5 4.0	3.5
1931 1932 1933 1934 1935	697 603 591 580 548	604	4.1 3.6 3.9 3.7 3.4	3.7
1936	590		3.6	

NEO-NATAL DEATHS AND STILLBIRTHS.

The loss of life from neo-natal deaths (i.e. deaths within 4 weeks from birth) and stillbirths continues unabated. A slight improvement in the number of neo-natal deaths has been counter-balanced by a slight rise in the stillbirth rate.

Enquiries made in relation to cases of still-births and neo-natal deaths indicate that the place of occurrence of birth was as follows:—

Where Birth took	place				Neo-nata	al death	ıs.		Stillbirths,
At Home Hospital or Institu No information	ution				1	84 57 48			282 302 6
				Total		89			590
Neo-natal Deaths.									
Age at Death									
1 day 2-7 days			9101	1000	****				267 135
Over one week		01110		14111	*****		*****		61
No information	10045	*****	-	2011	*****		41110	-	26
No information		*****	*****	*****			*****		26
								Total	489
									-

No. of mothers in above cases who attended welfare centre, 150 or 31%.

No. of mothers visited by Health Visitors who attended ante-natal clinics, 62%.

Causes of Death.

The neo-natal deaths have been classified in a similar way to the still-births—that is, according to the fundamental or predisposing causes, rather than according to the immediate causes. For example the great majority of neo-natal deaths are due to prematurity, but in many of these the true cause is toxaemia, ante-partum haemorrhage, cardiac disease or other abnormal conditions in the mother resulting in premature birth. Similarly many cases certified as dying of convulsions or atelectasis are more accurately classed to abnormal labour.

Ante-natal causes— (including toxaemia, nephritis, placenta praevia, accidental haemorrhage, cardiac disease, etc.)	101
Intra-natal causes— (including instrumental deliveries, prolonged or difficult labour, precipitate labour, etc.)	81
Foetal abnormalities— (including spina bifida, meningocele, congenital deformities, congenital heart disease, etc.)	78
Post-natal conditions— (including pneumonia, haemorrhagic disease, accidents, infections, etc	71
Prematurity, with no other apparent cause	137 21 489

Very many cases included in the 187 deaths due apparently to prematurity alone, could probably, with more complete information be assigned partly to ante-natal causes.

Further many cases in the group "post-natal conditions" died of infections to which they were rendered more liable by prematurity and were therefore probably also in part due to ante-natal causes.

The figures emphasise again the importance of ante-natal care and obstetrics in the prevention not only of stillbirths but also of neo-natal deaths.

Stillbirths-

Number of women who attended welfare centres for ante-natal care-206 or 35 per cent.

Causes of Stillbirths-

Ante-natal causes					***			 	278
Intra-natal causes Foetal abnormalities		***	***	***	***	***		 ***	200 68
Prematurity (with no	other	appa	rent ca	use)			***	 	22
No information			***					 	22
									590

DEATHS OF CHILDREN BETWEEN 1 AND 5 YEARS OLD.

These are set out in the table below, distinguishing those under 2 years from those over 2.

		1 to 2 ye	ars old,			2 to 5 ye	ars old,	
	1936.	1935,	1934.	1933.	1936.	1935.	1934.	1933.
Measles	14	22	10	37	12	13	4	16
Whooping cough	20	14	37	13	19	24	24	6
Diphtheria	1	3	3	2	22	19	25	10
Scarlet fever	1	0	4	1	1	5	5	3
Influenza	3	2	2	5	0	1	3	6
Tuberculosis	9	8	7	11	12	16	20	24
Nervous diseases	15	13	14	10	9	12	12	7
Bronchitis and pneumonia	37	38	53	66	24	20	32	27
Diarrhoea and enteritis	6	8	10	12	1	5	6	6
Other digestive diseases	6	4	7	6	10	10	12	13
Accidental deaths	3	3	6	2	16	13	23	23
All other causes	16	18	18	16	19	30	18	24
Total	131	133	171	181	145	168	184	165
						2000000		-

The following table shows the deaths and death-rates among children between one and five years compared with the average figures for previous years:—

						-2 years verage	2—5 years Average.			
			Deaths.	Death-rate per 1,000.	Deaths.	Death-rate per 1,000.				
1912-15					821	45.9	697	12.2		
1916-20					579	32.2	568	9.9		
1921-25					451	23.7	323	5.8		
1926-30	*****			*****	309	19.3	233	4.9		
1931-35					194	12.9	181	3.8		
1936	de l'est	W-114			131	8.8	145	3.3		

The figures show that a great reduction has occurred in the mortality amongst toddlers during recent years, a reduction of 81 per cent. being recorded in the death-rate from one to two years, and of 73 per cent. in that for the age period two to five years in 1936 as compared with the figures for 1912-15.

MATERNAL MORTALITY IN CHILDBIRTH.

The deaths of women classed to pregnacy and child-bearing in Birmingham during 1936 numbered 60. The number of live births was 16,386, giving a maternal mortality rate per 1,000 births of 3.67.

The maternal mortality in previous years is shown in the table below:-

		aths from	Rate per 1,000 live	
	Puerperal Fever.	Other Puerperal Causes.	Birmingham,	England and Wales.
1911	36	48	3.82	3.87
1912	27	45	3.25	3.98
1913	44	48	3.86	3.96
1914	83	41	3.19	4.17
1915	85	38	3.44	4.18
1916	81	40	3.44	4.12
1917	26	20	2.60	3.89
1918	29	22	3.03	3.79
1919	23	28	2.64	4.37
1920	51	39	3.59	4.33
1921	26	37	2.84	3.92
1922	25	35	3.02	3.81
1923	34	33	3.51	3.82
1924	37	35	3.91	3.90
1925	35	39	4.15	4.08
1926	41	83	4.13	4.12
1927	25	87	3.59	4.11
1928	32	34	3.83	4.42
1929	26	41	3.99	4.83
1930	27	82	3.39	4.40
1931	28	37	3.81	4.11
1932	28	34	3.73	4.21
1933	25	81	3.72	4.51
1934	29	31	3.83	4.60
1935	23	33	3.52	4.10
1936	25	35	3.67	3.81

The rates calculated on live and still-births for 1936 were:-

Birmingham	 	 3.53
England and Wales		 3.65

The causes of death as given on the death certificates may be classified as follows:-

Puerperal sepsis	(after o	confinen	nent o	r abor	tion)	200		***	 ***	25
Puerperal haemor	rhage		***			***	***	***	 ***	14
Albuminuria and o	convulsi	ons		***					 	6
Accidents of preg	nancy	(abortio	on, ect	opic g	estation,	etc.)			 	6
Embolism			***		-				 	4
Other causes			***					***	 	5

COMPARATIVE MATERNAL MORTALITY IN 11 LARGEST TOWNS.

	Deaths 1	per 1,000 live Birth Other	s from :
	Puerperal S	Sepsis. Puerperal Car	uses. Total.
London	0.75	1.17	1.92
Glasgow	2.56	3.19	5.75
Birmingham	1.53	2.14	3.67
Liverpool	1.15	2.58	3.68
Manchester	1.76	3.44	5.20
Sheffield	1.39	2.66	4.05
Leeds	1.36	1.91	3.27
Edinburgh	1.90	3.70	5.60
Bristol	1.52	1.69	3.21
Hull	1.35	2.04	3.39
Bradford	1.54	3.33	4.87

MATERNAL MORTALITY ENQUIRY.

At the request of the Ministry of Health a medical enquiry has been made in the case of every maternal death in childbirth during each year since 1929. The information obtained during 1936 has been tabulated as follows:—

17 61

Total deaths of women associated with pregnancy and childbirth-78.

II. Deaths from ch	itercurrent disea aild bearing					 	*****
GROUP I. Deaths fro	m Intercurrent	Disea	se—17.				
Parity. Primipar	ra 6. Multipar	a 11.					
Illegitimate. 0.							
Ages. Under 20-	-0. 20-30-5.	30-4	0—10.	Over	40-2.		
the control of the control of	A CONTRACTOR OF THE PARTY OF TH					 6	
I	Heart disease					 4	
A	Abdominal neop	lasm				 _ 1	
1	Encephalitis Thrombosis of s Ovarian abscess					 1	

Treated in hospital-16 cases.

Ante-natal care. Nil-4. Some-4. Sufficient-9.

Home Conditions. Good-10. Fair-5. Poor-2.

Period of Pregnancy. Full term—2. 36-40 weeks—5. 32-36 weeks—3. 28-32 weeks—1. 24-28 weeks—2. Under 24 weeks—4.

Notes on these deaths.

GROUPS

Death was apparently inevitable in 13 of these cases—but the four heart cases should never have been allowed to become pregnant, as they were all severe cases; three of these cases also had very little ante-natal care, and one had none, as she refused to seek advice. More should be done for these heart cases by (1) birth control clinics; (2) hospitalization during pregnancy, to secure adequate rest; (3) delivery in hospital.

				1	32						
GROUP II	. Deaths fro	m Child	Bear	ring=Total 6	1.						
	(a)	Deaths f	rom	abortion		27.00	2004		9		
	(b) (c) (d)	**	**	sepsis					17		
	(c)			toxaemia				*****	10		
	(a)	"		haemorrhage other causes				*****	10		
	(e)	**		other causes	*****			*****	15		
(a)	Deaths from a	bortion-	-Tota	19.							
1	Parity. Prim	ipara—2	. M	ultipara—7.							1 2
1	Illegitimate.	1.									
2	Ages. Under	20-0.	20-3	0-3. 30-40	—5. (Over 4	0—1.				
(Cause of deati	. In e	very	case—sepsis.							
	Interferer	ice _			:	3					
	Delay in	treatmen	t		5	(In ea	ch case	due due	to patie	ent's faul	t).
1	Home condition	ons. Go	od—€	6. Fair—2.	Poor-	-1.					
weeks	Period of Pres—0. 24-28	gnancy. weeks—	Und	ler 12 weeks nknown—1.	—6 .	12-16	weeks-	-0. 1	6-20 w	eeks—1.	20-24
$\begin{pmatrix} (b) \\ (c) \\ (d) \end{pmatrix}$	Deaths from	Puerpera	l Sep	sis, Toxaemia	and I	Iaemor	rhage.				
1	These are sho	wn in a	subse	equent table.							

Notes on these Deaths.

(b) Sepsis-17 cases.

In 1 case the source of infection was probably the midwife, who had a cold and herpes and in another the husband, who had a sore throat.

In 2 cases there was no ante-natal care (fault of patients), and in another 2, the antenatal care was insufficient (fault of patients). In these last 2 cases there was a marked degree of anaemia which probably predisposed to sepsis. One case was dirty in her person and clothing, and had septic teeth, which she refused to have treated.

In the remaining 4 cases, no source of infection can be traced, but it is interesting to note that in each of these four cases no masks were worn by the attendant, and in 2 cases no gloves either.

(c) Toxaemia-10 cases.

Death seems to have been inevitable in 2 cases. It might have been prevented in 3 cases by better co-operation of the patient, and in 4 cases by better ante-natal care, and in 1 case by better management of labour.

(d) Haemorrhage—10 cases. 5 ante-partum haemorrhage, 5 post-partum haemorrhage.

Death appears to have been inevitable in 3 cases; but in 2 cases it might have been avoided if the patient had been transferred to hospital earlier (both cases of placenta praevia, untreated until dangerously anaemic), and in 4 cases death might have been avoided by better management of labour—in these last 4 cases no attempt was made to treat the post-partum haemorrhage by salines or transfusion. One other case delivered herself while under the influence of drink, and no one was with her to control haemorrhage.

Emergency Maternity Service. The emergency service was not used in any of these cases, though, as indicated above, this might have saved life in 4 cases.

(e) Deaths from other causes-15 cases.

Ruptured uterus		Heart disease Thrombosed varicose veins (but White leg (no pyrexia noted) Pyelonephrosis but no uterine se No cause found	 	 	2 1 1 1 2	(1 directly after labour, 1 on ninth day).
Pulmonary embolism 7 Shock (after difficult labour) 3 Acute inversion of uterus 1 Puerperal mania 1 Parity. Primipara—5. Multipara—10. Notes on these deaths. 6 Inevitable 6 Poor co-operation of patient 4 Inadequate ante-natal care 2						
Pulmonary embolism 7 Shock (after difficult labour) 3 Acute inversion of uterus 1 Puerperal mania 1 Parity. Primipara—5. Multipara—10.		Poor co-operation of patient Inadequate ante-natal care	 	 	4	
Pulmonary embolism 7 Shock (after difficult labour) 3 Acute inversion of uterus 1						
		Pulmonary embolism Shock (after difficult labour) Acute inversion of uterus	 	 	7	

Summary and Comparison with 1934 and 1935.

		190			935	1934		
Abortions	-	Primipara.	Multipara,	Primipara,	Multipara,	Primipara,	Multipara 11	
Obstetric causes		21	31	30	18	20	22	
Intercurrent conditions		6	11	7	7	4	14	
		29	49	40	29	27	47	

Relative Mortality Figures for Cases Booking with Doctor, Midwife or Hospital.

Of 52 deaths from obstetric causes (i.e., omitting deaths from abortions and intercurrent disease) the bookings were as follows:—

	Sepsis	Toxaemia	Haemorrhage	Other causes	Total	Inevitable in
Booked with doctor	4	5	4	3	16	2
,, ,, midwife	9	0	3	8	20	3
" " hospital	4	3	2	3	12	5
Not booked	0	2	1	1	4	1

MATERNAL DEATHS.

(b) From sepsis—17. (c) From toxaemia—10. (d) From haemorrhage—10.

			aemia			
	Puerperal Sepsis.	Eclampsia with Convulsions.	No Convulsions.	Haemorrhage.	Total.	
TOTAL AGE GROUPS.	17	4	6	10	37	
Under 20 years 20—30 ,, 30—40 ,, Over 40 ,,	11 4 2		1 2 1 2	- 4 5 1	1 19 12 5	
PARITY. Primipara Multipara	9 8	3 1	3 3	1 9	16 21	
Home Conditions. Good Fair Poor	8 5 4	2 1 1	5 1	6 2 2	21 9 7	
Period of Pregnancy. 36—40 weeks Less than 36 weeks	16 1	2 2	3 3	7 3	28 9	
ANTE-NATAL CARE. Doctor Midwife M. & C. W. Centre Hospital Nil	5 6 4 2	3 -1 -	4 - 1 1	4 -3 1 2	16 10 6 5	
Doctor Midwife Doctor or Midwife then sent to hospital Hospital	7 7 1 2	1 1 1 1		4 - 2 1 3 (2 undelivered)	12 7 7 6 5	
TREATED IN HOSPITAL	17	4	6	10	37	

PUERPERAL SEPSIS.

There were 96 cases of puerperal fever and 168 cases of puerperal pyrexia during the year, 20 being cases of persons residing outside the City but removed for confinement to Birmingham institutions. The corresponding numbers in 1935 were: 104 cases of puerperal fever, 172 cases of puerperal pyrexia and 16 out-City cases.

In the 244 Birmingham residents detailed information was obtained. 130 were removed to hospital for treatment.

Women's Hospital	 	***	97
Dudley Road Hospital		***	15
Selly Oak Hospital	 ***	***	11
Maternity Hospital	 		3
Other Hospitals	 ***		4
			-
			130

The number of cases in primiparae was 102; in multiparae 106. The parity was not known in 36 cases.

Premature	***	***		200	21
Full term	***	***	11.0	310	189
Post Mature	***	****			3
Abortions	***			***	28
No information					3
					244

Out of the 244 cases of puerperal fever or pyrexia where information was obtained, 19 died, 4 following abortion.

Under the scheme arranged by the Maternity and Child Welfare Committee, a consultant was called in at home by the medical attendant in 18 cases.

The ante-natal care in the 244 cases was as follows:-

Doctor	444	100	***			54
Doctor and midwife			***	***		3
Midwife		***				2
Welfare Centre and He						1 7 58 or 24 per cent.
Midwife and Welfare C						3 attended the ante-
Doctor and Welfare Co						4 natal clinics at the
Welfare Centre						50 child welfare centre
Hospitals						55
Nursing Homes						20
Welfare Centre and N				***	23.	1
No ante-natal care	ar sing			***	***	26
No information		****		***	****	25
NO miormation	***	***	***	***	***	20
						244

The attendance at the ante-natal clinics at the child welfare centres was 58 per cent. of all maternity cases.

In the 244 Birmingham cases in which information was obtained the following complications of the actual labour were present (frequently more than one complication per case).

Vaginal and perineal tear			224	66
Instrumental delivery	***			37
Post partum haemorrhage			111	32
Abortion		***		29
Retained products			***	25
Manual removal of placenta				15
Breech presentation	***	***	***	9
Caesarean Section		***		8
Ante-partum haemorrhage		***		3
Placenta praevia	***	***	***	2
Internal version		***		2

No complication of labour was noted in 76 of these 244 cases.

OPHTHALMIA NEONATORUM.

812 cases of discharging eyes were notified to this Department during 1936. The great majority of these were not cases of ophthalmia neonatorum due to gonococci, but were reactions following prophylactic treatment, or mild catarrhs. 73 cases were admitted to the Eye Hospital and 74 other cases were of moderate severity.

In two cases blindness in one eye resulted and in one other case there was scarring of the cornea. In two out of these three cases the mother was a known case of venereal disease and was under treatment at hospital,

The Health Visitors and Midwives Inspectors paid 2,425 effective visits to notified cases.

PEMPHIGUS NEONATORUM.

10 cases of pemphigus neonatorum were reported during 1986. Six were removed to hospital.

MATERNITY AND CHILD WELFARE SERVICE.

TRAINING COURSE FOR HEALTH VISITORS.

A course was commenced on September 1st, 1936, and was continued until March 17th, 1937. Twenty-three candidates completed the course, nine taking the Birmingham Assisted Course, two being entered by the Sussex County Nursing Association and the remaining twelve being independent candidates from all parts of the country.

The students sat for the examination of the Royal Sanitary Institute in Birmingham on March 18th, 19th and 20th, 21 being successful.

The course has followed the usual lines. Special work has included Infant Life Protection, Venereal Disease, attendance at the Feed Room of the Children's Hospital, the Juvenile Employment Bureau, the Almoner's Department at the General Hospital and attendance at the Public Assistance Offices while applicants were interviewed by a Relieving Officer. In addition to the usual visits of observation, a special visit was paid to the Orthoptic Clinic at the Eye Hospital and the Children's Hospital, when modern methods of treating squint were demonstrated.

MATERNITY AND CHILD WELFARE STAFF.

No. of health visitors-98.

89 attached to child welfare centres.

9 special visitors, mainly visiting non-notifiable infectious disease.

Superintendent of Health Visitors—1 Assistant Superintendent of Health Visitors—1

Dental Nurses-2

Midwives' Inspectors—2 Tutor for Training Course—1

Immunisation Nurse-1

Special Workers-3

Foster Mother Scheme, Unmarried Mothers, Home Helps

Remedial Gymnast-1

Medical Officers-Whole-time, 15; Part-time, 20

Dentists—Whole-time, 1; Part-time, 1 Class Mistresses—Cookery, 4; Sewing, 3

HEALTH VISITING.

The Health Visitors undertake home visiting for children under the age of five, ante-natal home visiting, and also the visiting required for non-notifiable infectious disease, and ophthalmia neonatorum. In order to cope with the outbreaks of infection in different localities, nine visitors are employed for specialised work in the latter connection, the general health visitors dealing with sporadic cases in their localities.

The Health Visitors carry out the Centre work in addition to home visiting.

Total visits to children under 5 years, 279,374; total visits to expectant mothers-18,749; other visits-36,939; all visits-335,062.

CHILD WELFARE CENTRES.

- (a) Number of centres provided and maintained by the City Council-30.
- (b) Number of centres provided and maintained by a Voluntary Association-1.
- (c) Total number of attendances at ordinary consultations at all centres during the year:
 - By children under 1 year of age-141,191.
 - (2) By children between the ages of 1 and 5 years—78,084.

- (d) Total number of children who attended ordinary consultations at the centres for the first time during the year:
 - (1) Children under 1 year of age-11,987 or 71 per cent. of the births.
 - (2) Children between the ages of 1 and 5 years-2,991.
- (e) Total number of children who were in attendance at the centres throughout the year:
 - (1) Children under 1 year of age-10,076.
 - (2) Children between the age of 1 and 5 years-25,157.

Percentage of children between 1 and 5 years (total in City approximately 58,000) attending Child Welfare Centres (e) (2) 43 per cent.

Number of fresh children attending special medical inspection clinics for children 2 to 5 years -5,493, with 18,452 attendances.

In 1986 the Carnegie Institute had the highest number of individual children registered as attending the children's consultation, viz: 2,250, followed by Monument Road with 1,859, Acocks Green with 1,819, Wright Street Centre with 1,687, and Satton Street Centre with 1,606.

No new Centres were opened during the year.

There was a well marked increase in the attendances at the consultations for mothers and children.

The toddlers' special classes continue to be popular, and are held at 25 centres. Several centres have physical improvement classes for mothers, which have proved helpful and interesting to the women.

The remedial exercise clinics for toddlers have done excellent work and could be extended with advantage. The numbers attending have steadily increased in the last three years.

The various clinics at the child welfare centres have been well attended and the educational work has reached a high standard. A table is given showing the increase in the centre work during the last fifteen years. The increase in attendances at the clinics is remarkable, particularly in relation to the work for expectant mothers. The work for "toddlers" has been greatly extended, and is shown in the special medical inspections. The increase in the educational work is notable. The actual number of births recorded is 3,200 less than in 1921, which was a "peak" year, following the War.

ATTENDANCES AT CHILD WELFARE CENTRES DURING 1921 AND 1936.

V				1921.	1936.
Number of centres	***	***	***	21	81
Infants and Children:-					
Births (stillbirths) reported	***			19,360	16,106
Primary Visits				18,718	15,806
Re-visits (infants and children)				169,482	262,097
Total visits and re-visits		***		188,200	279,374
Mothers:—				TOTAL STREET	Different
Deiman visite				3,291	2,021 method of
De ofette	***	***	***	6,425	16,728 calculation
Total visits and re-visits	***	***	***	9,716	18,749 now in
Total visits and re-visits	***	***	***	3,710	force.
					Crorce.
Children's Consultations:-					
Number held	***	***	111	2,610	3,687
Fresh children attending	***	***	***	14,988	14,978
Total attendances	***		***	130,321	200,823
Number seen by doctor		***	***	58,910	86,161
Special Medical Inspections (11-5 year	irs) :				
Number held			***	Nil	1,141
Total attendances				Nil	18,452
			****		20120
Mothers' Consultations (ante-natal) :-	-			004	0.010
Number held		***	411	824	2,318
Fresh mothers attending	***	***	***	4,683	9,427
Total attendances	***	***	***	10,380	37,212
Attendance at :					
Sewing classes				9,335	17,569
Cookery classes				1,645	2,583
Health talks				20,685	67,474
				-	

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MATERNITY AND CHILD WELFARE CENTRES, 1936.

Infants and Children.						10.00		hildren sultatio			In	Specia dedica specti to 5 y	on.		onsu	her's Itation Natal	
CENTRES.	Births reported.	Primary Visits.	Re-visits.	Total Visits.	Mothers' (Ante- Natal Visits).	Number held.	Fresh Children Attending.	Total Attendances.	Average per Consultation.	Number seen by Doctor.	Number held.	Total Attendances.	Average per Consultation.	Number held.	Fresh Mothers Attending.	Total Attendances.	Average per Consultation
Acocks Green	601	562	11610	12205	1016	149	724	10023	67		49	1053		100	382	1750	
Billesley	387	405	7854	8299	416	100	346		44	1983		793		49			
Bloomsbury Street	733	724	12217	13046	718		-		53			798			563		1
Bromford	384	386	6071	6484	539	300		5429	53		10			50			
Carnegie Institute	945	948			1023	247	1057	14337	58		172	762	1000	147		1000	
Erdington	591	574	6393	6999	338	150	483	9719	65	3218	50	809	16	96	287	1437	
Floodgate Street	392	424	7346	7814	597	99	386	4660	47	2524	-	_	_	51	290	926	18
Glebe Farm	337	309	5987	6303	430	51	223	2551	50	1183	-	-	_	38	119	589	16
Greet	635	581	12039	12680	644	100	481	6696	67	2729	49	887	18	97	360	1473	15
Handsworth	445	426	6459	6928	315	99	343	4875	49	2103	51	753	15	49	196	873	18
Harborne	307	300	3593	3896	382	98	254	4007	41	1750	-	_	-	23	125	470	20
Hay Mills	622	616	9116	9798	612	98	451	6241	64	2491	49	744	15	52	284	978	19
Hope Street	787	768	13633	14518	912	98	588	5837	59	2197	48	763	16	71	397	1309	18
Irving Street	408	442	7625	8109	469	98	408	5924	60	2362	-	-	-	49	181	673	14
Kettlehouse	209	183	4253	4447	330	98	362	4618	47	2524	33	536	16	51	206	868	17
King's Heath	422	389	4462	4857	358	100	340	4759	48	2084	-	-	-	48	133	684	14
Kingstanding	480	541	11845	12502	1132	172	619	8539	50	4128	50	737	13	103	398	1784	17
Lancaster Street	589	650	11873	12592	892	150	675	7389	49	3209	51	802	16	101	445	1758	17
Lansdowne Street	576	541	8017	8595	678	100	317	4618	46	2285	49	691	14	72	272	1003	14
Monument Road	870	828	14250	15186	917	200	821	10598	53	4155	51	760	15	148	560	2205	17
Northfield	469	462	7301	7788	379	99	421	6016	61	2616	47	665	14	50	253	1081	22
Selly Oak	321	302	4905	5221	389	100	353	5009	50	2493	-	-	-	51	173	1001	20
Stechford	352	346	5638	6008	438	100	394	5191	52	2391	47	829	18	48	189	713	15
Stirchley	601	560	7822	8405	522	100	502	5873	59	2485	3	39	13	49	224	762	15
Stratford Road	551	566	11964	12611	784	99	599	6222	63	2088	49	737	15	98	324	1336	14
Sutton Street	661	688	11952	12703	923	197	674	10090	51	4385	49	827	17	100	635	1928	19
Trinity Road	568	522	5414	5963	397	131	575	7691	59	3225	48			101			
Walsall Road	318	340	2991	3355	306	58	365			1461	18			51	120	591	12
Washwood Heath	433				277	100		5527	55						500		10.03
Weoley Castle	296			7806	646	1000			46						204	787	
Wright Street	816	724	13888	14673	970	148	693	8085	55	4369	51	761	15	105	485	1865	18
TOTALS	16106	15806	262097	279374	18749	3687	14978	200823	54	86161	1141	18452	16	2318	9427	37212	16

INDIVIDUAL CHILDREN ATTENDING CENTRES IN 1936.

Acock's Green				1,819	Lansdowne Street		 960
Billesley		***		1,020	Monument Road		 1,859
Bloomsbury Street				1,384	Northfield	***	 1,024
Bromford	***			874	Plowden Road (Glebe	Farm)	 354
Carnegie Institute				2,250	Selly Oak		 636
Erdington			***	1,282	Stechford		 1,259
Floodgate Street		***	***	403	Stirchley		 1,051
Greet		- 111		1,258	Stratford Road	M	 1,391
Handsworth				839	Sutton Street	-	 1,606
Harborne				588	Trinity Road	***	 1,445
Hay Mills		***		1,162	Walsall Road	1999	 644
Hope Street	***			1,355	Washwood Heath		 920
Irving Street				838	Weoley Castle		 998
Kettlehouse				815	Wright Street		 1,687
King's Heath				727			-
Kingstanding	***		***	1,555			35,233
Lancaster Street				1,230			
		nder 1 Over 1			10,076 25,157		

MEDICAL INSPECTION OF CHILDREN FROM TWO TO FIVE YEARS.

Special sessions are devoted to the medical examination of children from 2 to 5 years at child welfare centres. The number of such sessions during the year was 1,141, and the total attendances were 18,452, giving an average attendance of 16.

The total number of children attending during the year was 9,833 and 5,493 of these had not attended in previous years. Children are asked to return every quarter for examination and it is hoped eventually to cover almost all the children in this age group; the present figure represents about one seventh of the total. It must be clearly understood that children of this age group also attend the ordinary children's consultations at the child welfare centres and are regularly visited at home.

The "defects" noted at the special medical inspections have been classified as shown below. Of the 9,833 children examined, 5,846 were suffering from one or more "defect", i.e., 59 per cent., a high proportion which emphasises the need for such special examinations. No less than 11.7 per cent of the children examined suffered from acute illness during the year.

In considering individual groups some allowance must be made for the individual medical officer's point of view in relation to the conditions found. For instance when a heart murmur is found, certain medical officers may classify it as congenital, others as rheumatic, and others regard it as secondary to anaemia. In relation to rickety deformations, certain medical officers are interested in these and note them more particularly than others. It may be taken, however, that no gross defect is omitted from the record though minor defects may not have been noted in a proportion of the children. This divergence of standard makes the observation of environmental factors of little value, so "unsuitable clothing" alone is included in the table; it is satisfactory that so few cases are noted.

In practically all cases some treatment was obtained where required, but it was not always continued as long as appeared advisable.

and the same of th		
Number of children who attended the Medical Inspection Clinics during 1936	9,833	
Number of these children noted as suffering from one or more of the defects or diseases in the attached list (N.B. Not number of defects)	5,846	59 %
Number of these children noted as having had an acute illness during 1936,	1.149	11.7%

Eyes		
Defect or Disease	No. of Cases.	Percentage of Children Examined.
Squint	275	2.8
corneal ulcer, blepharitis	159	1.6
Other eye conditions, e.g., cataract, blindness	24	0.2
et.		
Skin		0.0
Purulent conditions, e.g., impetigo, septic	85	0.9
spots, folliculitis, boils	187	1.9
Ear, nose and throat	164	1.7
Otorrhoea	164 16	1.7 0.2
Enlarged or diseased tonsils and/or adenoids	2,113	21.5
Nasal obstruction and/or mouth breathing	179	1.8
Teeth		
Carious or defective	1,958	20.0
	2,000	
Glands		
Enlarged or palpable submaxillary or cervical	849	8.6
glands	010	0.0
Heart		
Congenital heart disease (when definitely		
diagnosed)	40	0.4
Rheumatic heart disease (when definitely		
diagnosed)	45	0.5
Anaemia	330	3.4
Lungs		
Any abnormality - including bronchitis,		
bronchiectasis, fibrosis, unresolved broncho- pneumonia, rhonchi, rales, dullness, etc., but		
not including cases of "cough" with no noted		
physical signs in lungs	461	4.7
Rickets		
Active rickets (when definitely diagnosed as		
such)	156	1.6
Rachitic deformities, e.g., bow legs, knock		
knee	1,039	10.6
Other deformities		
Flat foot, kyphosis, scoliosis, talipes, torti-		
collis, dislocated hip, pigeon chest, any other		
deformity	736	7.5
Mentality		
Backwardness from any cause	91	0.9
Ctl		
Speech Parking or defeating	991	9.4
Backward or defective	331	3.4
Other defects		
Hernia, chorea, lipuria, etc	22	0.2
the state of the same of the s		
Environmental conditions		
Unsuitable clothing	297	3.0

ANTE-NATAL CLINICS AT CHILD WELFARE CENTRES.

The average number of ante-natal clinics held weekly is 46 and the average attendance is 16 per clinic. 62 per cent. of the women seen by Health Visitors in 1936 attended these clinics. This is an increase of 2 per cent. on the previous year. The midwives are co-operating excellently and the great majority make every effort to secure their patients' attendance. A special consultation clinic is held weekly at Lancaster Street Centre.

Year.	No. of Sessions,	No. of fresh expectant mothers attending ante-natal clinics.	Total attendances,	Births and Still-births	Births and Still-births visited.	Percentage of mothers visited attending ante-natal clinics.
1916	No record	561	No record	21,347	8,143	7
1917		538		18,286	9.143	6
1918		1,603	3,275	17,430	12.044	13
1919	"	2,940	6,250	20,079	15,154	19
1920	857	3,939	8,812	25,980	21,006	19
1921	824	4,683	10,380	22,938	18,718	25
1922	800	4.095	8,450	20,510	16,254	25
1923	890	4,386	9,391	19,698	16,193	27
1924	981	4,043	10,395	18,934	15,969	25
1925	1.034	4,346	11,135	18,445	15,647	28
1926	1,117	4,630	12,043	18,517	15,626	30
1927	1,188	4,615	12,252	17,773	16,217	28
1928	1.304	6.098	15,803	17,817	16,186	38
1929	1,522	7,308	19,751	17,393	16,522	44
1930	2,071	9,466	28,323	18,105	17,828	53
1931	2,090	8,616	27,608	17,740	16,937	51
1932	1,892	8,174	25,983	17,219	16,190	50
1933	1,905	8,290	26,538	15,645	14,975	55
1934	1,953	8,867	28,719	16,261	15,161	.58
1935	2,203	9,200	32,871	16,459	15,500	60
1936	2,368	9,771	37,556	16,976	15,806	62

Ante-natal Clinics are also held at Dudley Road and Selly Oak Hospitals, at the Maternity Hospital and at the City Maternity Homes at Heathfield Road, and Wake Green Road. In 1936 the number of mothers attending numbered 5,552—probably a large number of these attended child welfare centres also.

ULTRA VIOLET LIGHT CLINICS AT CHILD WELFARE CENTRES.

	Condition.				Total No of Cases.	No. of New Cases,	No. of Attendances.
1.	Rickets, prophylactic delayed dentition	rickets	s and		3,469	1,319	15,943
2.	Catarrhal Children	*****			813	314	3,795
3.	General debility				1,820	728	8,059
	Nervous irritability		*****		67	25	376
	Chronic chest conditio	ns	*****	*****	831	303	3,737
6.	Asthma				55	14	308
7.	Muscular weakness				271	114	1,245
8.	Malnutrition				170	73	831
9.	Skin conditions		*****		18	7	92
10.	Anorexia				189	68	870
11.	Enlarged glands			*****	37	19	172
	Other conditions	****	*****		484	220	2,188
					8,224	3,204	37,616

The clinics are situated at the following Centres:-

Bloomsbury Street, Carnegie Institute, Floodgate Street, Greet, Harborne, Hope Street, Kingstanding, Lancaster Street, Monument Road, Sutton Street, Selly Oak, Stirchley, Stratford Road, Wright Street.

The total attendances show an increase of almost 10,000 compared with 1985, while 2,710 more children were treated.

REMEDIAL EXERCISE CLINICS FOR TODDLERS.

					Pre	No. of escribing Clinics held.	No. attending.	No. of Remedial Clinics held.	No. of Attendances.
Carnegie Institute		***		***		6	74	50	930
Selly Oak						-6	58	45	1,030
Kingstanding						5	82	45	1,000
Wright Street			COLOT I			6	80	50	956
Stratford Road						7	137	48	908
Lancaster Street						6	87	46	938
Monument Road						7	92	50	688
monument road			-				-	-	-
						43	610	334	6,450
Type of Deform	ity						No. of cases of defect		rcentage of l cases of defect.
	ucy.						477		
Genu valgum	20.00	*****		******	*****	1000	1000		25.3%
Postural defects	****	*****	Break.	A11100	81118	11111	437		23.3%
Chest deformities	****	*****		****	20112	Arriva	333		17.6%
Flat feet	******					*****	308		16.4%
Hypotonicity	*****			*****	*****		123		6.5%
Constipation	· enter	ime		*****			72		4.3%
Kyphosis		*****		****		11111	67		3.5%
Genu varum	-	****			*****	****	36		1.9%
Lordosis				*****	1000	11111	10		.5%
Scoliosis		*****		*****	****	******	7		.3%
Winged scapulæ	******	*****		*****		*****	4		.2%
Hemiplegia		*****	1000			****	2		.1%
Infantile paralysis		*****		*****	*****	*****	2		.1%
							1,878		100%
						No.	attending.	No. o	of attendances,
1933			-		2 11 12		564		4,997
1934							417		5,857
1935						7	637		6,136
1936							610		6,450
		-	-	***	TI				A. Distriction

DENTAL TREATMENT.

	Stratford Road.	Carnegie Institute.	Lancaster St.	Selly Oak	Total.
Number of clinics held	229	206	173	49	657
Mothers attending	3,062	2,823	1,976	444	8,305
Children attending	1,383	1,155	1,359	509	4,406
Average attendance (Mothers)	13	14	11	8	_
" (Children) 6	6	8	10	_
Local anaesthetics	81	57	65	16	219
Gas	2,187	1,767	1,967	876	6,797
Dentures supplied	341	336	203	_	880

TREATMENT OF EAR, NOSE, THROAT AND EYE CONDITIONS.

Cases referred from Child Welfare Centres and examined during 1936 at the Children's Hospital for the treatment of the above conditions were as follows:—

Eyes, ear and throat	cases		 	 	410
Tonsils and adenoids	(operation	required)	 	 	509
Tonsils and adenoids	(examination	on only)	 	 	261

THE PROVISION OF FOOD FOR NECESSITOUS MOTHERS AND CHILDREN. MUNICIPAL KITCHEN AND FEEDING CENTRES.

The meals provided are uniformly appreciated. The usual two course meal, consisting of meat two vegetables and pudding, is served for both mothers and toddlers and the latter are given a glass of milk and some fruit in addition.

	Newtown Row			***		8,818	
	Hope Street		***			8,107	
	River Street					9,538	
	Bloomsbury Stree	t				7,998	No. of Contract of
	Carnegie Institute	8				8,932	
	Sutton Street				***	9,187	
	Monument Road					15,171	108,549
	Lancaster Street			200		7,659	1
	Handsworth					3,526	
	Irving Street					8,543	
	Kingstanding				***	7,808	13171
	Lansdowne Street					5,067	
	Wright Street					8,195	/
	Mothers		***			36,395)	****
Total Attendances:	Toddlers			***		72,154	108,549

Numbers of individual mothers and children who received dinners at some period during 1936.

							Mothers			T	oddlers,
	Newtown Row		***	***			64				88
	Hope Street						72			1	135
	River Street				***		64				102
	Bloomsbury Street						70				118
	Carnegie Institute						70			1	132
	Sutton Street						42				58
	Monument Road				***		116			1	190
	Lancaster Street		***	***			54			1	114
	Handsworth		***				16				27
	Irving Street						82			1	184
	Kingstanding						48				94
	Lansdowne Street			***	***		31				52
	Wright Street	***					76			1	108
							-			-	-
							805			1,8	352
										-	_
Cost											
									£		d.
	Cost of food					***		***	1,548	7	3
	Cost of transp	ort					***	***	230	17	0
										-	-
									1,779	4	3
	Receipts from	Centr	es	***		***	***	***	327	4	7
									£1,451	19	8

Net cost per meal excluding wages and overhead charges 3.2d.

Approximate total cost per meal including wages and overhead charges 5.3d.

TODDLERS' "BREAKFAST" MEALS.

At 18 Centres, half a pint of milk and bread and butter were served to toddlers at 9 a.m. on five days during the week, and half a pint of milk was taken home to be given to the children later in the day.

No. of individual	children	attending		 	 	 	1,355
Total attendances	made		***	 ***	 ***	 ***	104,476

CARNEGIE INFANT WELFARE INSTITUTE.

During the year 1936 the routine work of the Centre has proceeded as usual.

The attendances at all clinics have been satisfactory and the total attendances at infant consultations exceed by 300 the attendances made during 1935.

The educational classes have been well attended and the practical cookery class is much appreciated.

The Toddlers' class under Mrs. Moseley continues to do excellent work. Several children from the Parents' Guidance Clinic have been referred to this class and have particularly benefited.

The Parents' League of Health has had a very successful year, and six lectures have been given. The garments made during the winter by meambers of the league have beent most useful. Many children attend the centre insufficiently clad and it is always difficult to find suitable garments for them.

The Dramatic Society gave three one-act plays at Christmas. A member of the voluntary committee produced one of them. The rehearsals for the others were undertaken by members of the staff in the evening, so that the fathers might take part. The scenery was made by the fathers and showed much skill and ingenuity.

A Baby Week was held from July 6th to 9th. An exhibition "The Baby Arrives" was open each day. A special feature was a competition for school children, who were asked to write an essay on "What does the City do, to keep people healthy?" There were a great many entries and the prize winning essays were very good.

The Mothers' Committee continue to give most valuable help. By special efforts funds were raised and 67 cwts. of coal were distributed at Christmas.

The attendances at the Carnegie Institute were as follows:-

			No, held.	Total Attendances.
tations			247	14,337
18 months	to 5 ye	ears)	51	762
		***	147	2,223
			49	460
nent)			200	2,795 mothers 1,107 children
ent)			89	3,825
treatment)			51	954
		***	47	668
			37	283
***	***	***	26	160
			304	4,125
inics			52	172
	ment) treatment)	18 months to 5 years	18 months to 5 years)	tations 247 18 months to 5 years) 51 49 ment) 89 treatment) 51 47 37 26 304

THE OBSERVATION WARD CARNEGIE INSTITUTE.

During the year 1936 158 children were admitted to the ward and the average length of stay was 20 days.

Two mothers were also admitted because they were breast feeding ill children.

There was 1 case of re-admission and 7 deaths. Excluding 10 healthy children admitted for investigation prior to adoption, there were 148 ailing children. Of these:—

66 were discharged as cured. 45 were discharged as improved. 28 were discharged as in status quo.

During the year 9 children were transferred to Canwell Hall for further treatment—the majority of these being chronic chest cases. Three were transferred to the Children's Hospital for operation. Six children were sent to Little Bromwich Hospital—2 with whooping-cough, 2 with measles and 2 with dysentery.

Three cases were transferred to Yardley Green Road Sanatorium. The 7 deaths were due to:

Pyelitis					1
Broncho-pneumoni	a				2
Aspiration pneumo	onia	***	***		1
Gastro-enteritis		***	***	***	2
Erythroedema					1

As in previous years, the reason for admission to the ward was chiefly for the investigation of children in a debilitated condition, or of those failing to make normal progress—mentally or physically. 58 per cent. were markedly under weight.

Amongst the toddlers, chest conditions again headed the list and nutritional anaemia came second, whilst among the babies feeding difficulties and gastro-intestinal symptoms were the chief factors. Many of the cases proved to be of great medical interest.

THE PARENTS' GUIDANCE CLINIC.

The Parents' Guidance Clinic, opened in January, 1984, at the Carnegie Institute to assist parents in the management of difficult children, with Dr. J Hammond, of Wolverhampton, as the medical psychologist, and Dr. Ursula Cox as his assistant, has proved a very helpful feature of the Child Welfare Scheme.

Altogether 138 children have attended with a total of 280 attendances.

The Medical Officers at the Child Welfare Centres recommend the mothers to attend and fill in an appropriate report form, which is supplemented by a report from the Superintendent of the Centre. The Clinic is held weekly. The reports from medical officers and health visitors show good results in a large proportion of cases.

The chief difficulties for which the mothers seek advice are fears of various kinds, e.g., night terrors, etc., unruly and agressive behaviour, jealousy, enuresis, anorexia, and so forth.

Many mothers have expressed their appreciation of the help which they have received at this clinic.

HOME HELPS.

67 Home Helps were employed during 1936. Owing to the high standard required it is difficult to increase the number, though more are needed.

The Home Helps attended 1,128 cases in 1936-i.e., 220 more than in the preceding year.

Cases under the extended scheme included several of acute rheumatism, pneumonia, post influenza, fractured ankle, and numerous ante-natal cases.

The Home Helps' wages were increased from 5/- to 6/- per day (including food allowance) and the full fee to be paid for their service was in consequence raised to 6/- per day. This has been paid without demur by those people from whom it has been asked.

The women have been kept almost continuously employed, and the reports, taking into consideration the varied types of patients and their demands, have been extraordinarily good.

The homes attended included those of factory workers, tram and bus conductors and drivers, shop assistants, lorry drivers, members of the police force, clerks and travellers, as well as many unemployed. The largest demand for their service appears to come from Kingstanding, Bromford, Small Heath, Acocks Green, Billesley and Weoley Castle.

CITY BABIES' HOSPITAL.

CANWELL HALL (84 beds).

The demand for beds has never been heavier than in 1936. Although this shows appreciation of the work of the institution, it has meant refusing admission to many children who would have materially benefited.

There was a rise in the number of cases of active rickets admitted and a disquieting feature was the severity of certain of the cases. This implies no cessation of effort on the part of health visitors, but is the effect of malnutrition and insufficient sunlight and occurs when the mother fails to make use of the child welfare centres where ultra violet light clinics and other means of protection against this deficiency disease are available free of cost. The increasing prosperity of Birmingham implies a greater degree of atmospheric pollution and an increase of the likihood of rickets.

Particular attention is paid in the hospital to the diagnosis of tubercular infection, and every child is tested by the Mantoux method. Twenty-two cases were found to be positive and in no less than six of these, the parents were suffering from tuberculosis; in five others whooping cough was followed by a prolonged illness; four of the children were very ill. Five were under 12 months old and nine under 2 years. Seven of the 22 cases were transferred to Yardley Green Road Sanatorium.

General debility predominated among the causes for admission but 63 children were suffering from non-tubercular lung condition and 43 from severe anaemia. There were 24 deaths, 18 in infants, the majority from a terminal lung or bowel infection in a feeble infant.

The chief outbreaks of infection were as follows:--

Dysentery.

There were two outbreaks of Sonne dysentery in February (7 cases) and in November (7 cases). The first outbreak spread in the admission ward from a positive case in spite of all the usual precautions having apparently been taken. The cases were very mild. In November cases again occurred in an admission ward and were followed by 2 sporadic cases. A nurse was found to be a carrier. No further cases occurred after her suspension from duty. The cases were of a mild type.

Whooping Cough.

Twenty-six cases occurred following two separate admissions, one of these was not diagnosed within the admission isolation period of three weeks, so that further spread was inevitable.

Cases of measles, German measles, chicken-pox and scarlet fever were reported. Contacts were affected in the cases of chicken-pox (14) and measles (5), but all the cases were of a mild type.

Number of Adn	nissions.		Number of Discharges.						
0—1 years 1—2 years 2—5 years		 194 153 177	Well Improved In status quo			120 333 40			
Training State		524				493			

Number of children in home at end of year—73. Number of deaths—20.

Of the total number of discharges, 26 were removed by the parents against medical advice. Of these 2 had not completed the initial period of 3 weeks.

The	diagnosed	cases	discharged	home	were	classified	as	follows :-
-----	-----------	-------	------------	------	------	------------	----	------------

The diagnosed cas	ses discharge	d home	were c	lassified	as fol	lows :-	-		
				0-1 yr.		1-2 yr	s. 2-5 v	rs. Tota	1.
Anaemia				16		12	10		3
Acute chest conditions				21		2			14
Chronic chest condition				9		14	16		9
Cardiac disease				1		1	- 3		5
Ear conditions (acute)			***	15		3			22
Tuberculosis				5		9			22
Gastro-enteritis				18		5			25
General debility and ma				41		4	67		
Hostel babies			***	8		1	_		9
Hypertrophied and sep	tic tonsils			8		8	1:		29
Mismanaged	*** ***			4		1			8
Mentally deficient				2		0			3
Pink disease (Erythroe				2		2		3	7
Rickets				4		14			21
Urinary diseases				4		3			8
Malnutrition				15		13	16		14
Other conditions				3		4			11
Cite continuous				_		_	_		
				176		96	160		
							-		
		anged ul+							
Cases transferred t	to other hosp	itals :-							
To the Children's	Hankital 19								
To the Children's				i.			0		
	Empyema fo				***		2 0 (Fau ion	timetian)	
	Atrophy and			***	***			estigation)	
	Abdominal T		nd Asci	tes			1		
	Acute Maste		alata	***	***		2		
	Hare lip and		4.6	***	***		1		
	Scurvy and			****	****	***	1		
	Haematoma		P		***	***	1		
	Adenoidector				***		1		
	Tuberculous			ionia			1		
	Pylorospasm			***	***	***	1		
	-								
To Selly Oak Hospital	day 244								
	Tonsillectom		:::	***	***		1		
	Rhinitis with	h chroni	c otitis	media		***	1 (For ope	ration)	
To Lordswood Nursery	-4 children.								
To Yardley Sanatorium	-7 cases.								
		e - : -							
	Tubercular				***	****	1		
	Tubercular	Adenitis			***		1		
	Pulmonary						4		
	Miliary Tub	erculosis	s and i	mental o	leficier	ncy	1		
Causes of Death									
Causes of Death-									
	Acute Enter	ritis					4		
	Anaemia an	-					1		
	Appendicitis						1		
	Broncho-Pne						1		
	Broncho-Pne		and Er				2		
	Broncho-Pne				nedia	and			
	enteritis				***		3		
	Otitis media	and Br	oncho-I	neumon	ia		2		
	Otitis media						3		
	Otitis media	and ent		1000			1		
	Pyelonephrit					***	1		
	Retropharyn				***		1		
		-							

Classification of ages at death.

0-2 months	2—6 months	6—12 months	1-5 years
4	12	2	2

History of Infectious Disease-

Chicken-pox	4.640		 14 cases
Whooping cough			 26 cases
Morbilli	***		 5 cases
Nasal Diphtheria			 8 cases
Dysentery			 14 cases
Rubella	2.00	2000	 1 case
Scarlet Fever		***	 1 case
Paratyphoid	411	***	 1 case

THE CONVALESCENT HOME FOR MOTHERS.

Pype Hayes Hall, Chester Road, Erdington.

(Beds-Mothers, 22; Babies, 20).

Total number of mothers admitted-441.

(Of these 60 were ante-natal cases)

Total number of babies admitted-385 (without mothers, 26).

The number of cases admitted was higher than in the previous year. The Medical Officer in charge of the home reports that a very large proportion of the women showed a very low standard of health and general physique. They showed signs of overstrain and anaemia, and malnutrition was generally present. The rapid improvement resulting from rest and the generous diet was very striking.

There were no outbreaks of infection.

It is unfortunate that greater use of the Home is not made in winter. The Staff were, however, kept fully employed by the admission of healthy babies whose mothers were unable to care for them owing to illness and for whom no other accommodation was available.

LORDSWOOD RESIDENT NURSERY.

(35 beds).

There were 97 admissions in 1936.

The number of admissions was less than in the previous year mainly owing to longer periods of stay in the Nursery and to outbreaks of infection. Whooping cough was introduced by a young infant and 15 children were affected; three unfortunately died. There was also an outbreak of german measles (7 cases), while sporadic cases of mumps (2), measles (2) and diphtheria (1) also caused anxiety. The german measles, measles and mumps were introduced by the nursing staff.

Twenty-two other cases of acute illness required hospital treatment for varying periods and eleven of these children died; of these 6 had been admitted ailing and were sent to hospital within 2 weeks.

A special admission ward with cubicles and central heating is urgently required as so many infants are admitted in poor health, often neglected and already suffering from infections, particularly of the lungs and bowels.

The nursing and general care of the children has been of a very high standard.

THE CITY MATERNITY HOMES.

THE WAKE GREEN ROAD MATERNITY HOME (SORRENTO).

During 1936 the number of admissions constituted a record and the results were excellent. At the same time this large amount of work has imposed a considerable strain on the permanent clinical and administrative staff and it is not proposed to maintain such a high admission rate in future.

There was no case of puerperal septicaemia. The one maternal death was due to central placenta praevia with an extremely severe and uncontrollable post partum haemorrhage.

The forceps rate was low, 5.5 per cent., but complications of labour occurred in 51 other cases, and 61 obstetric operations were required including 49 inductions of labour. There were only 9 cases of complication during the puerperium.

The high proportion of booked cases requiring treatment in the ante-natal ward is still noticeable and amounted to 35.5 per cent, (258 cases).

The post-natal clinics have been well used, 450 patients delivered in the wards attended by appointment. This proportion, 60 per cent., is very high and shows the increasing realisation of the value of examinations within two or three months of childbirth. Of the 761 babies born, only 5 per cent. failed to survive, the remaining 719 were discharged with their mothers, and of these infants 84 per cent. were breast fed.

Premature Baby Ward.

The premature baby ward has been well used by doctors and midwives in district practice, and 242 infants and 88 mothers were admitted during the year, an increase over the previous year's figures. Since the ward was opened six years ago, 931 premature infants have been admitted, with a survival rate of 62 per cent. Of these more than half were below 4 lbs in weight.

An attempt was made during the year to follow up 250 consecutive cases discharged from the ward during the previous 12 months. It proved possible to trace 163 cases, of whom 13 were reported dead (8 per cent.). The remainder 150 cases were examined by the medical officers. All those seen were over 12 months o'd; of these only four were definitely backward, 14 were rather small, but the remaining 132 were normal healthy children. These investigations show clearly the value of the work and the good u'timate results which can be obtained.

Total admissions to the Home-2,253 (including 761 babies born).

Maternity Wards.						
	Admissions	***	***	***		755
	Primiparae	***	***			430
	Multiparae					325
	Booked cases					720
	From ante-natal	ward		***		35
Ante-natal Ward.						
	Admissions					390
	Cases from other	clinics				96
	Booked cases for	treatme	nt			258
	Booked cases for	observa	ation		***	36
Ante-natal Clinics.						
	No. held					219
	Attendances					4,706
	Average attendan	ce	***			21
Post-natal Clinics.						
	No. held					29
	Attendances					460
	Average attendan	ce			***	15
Premature Baby Ward.						
	Admissions	***				347
	Babies					259
	Mothers					88

Booked cases-720.

Unbooked cases admitted from ante-natal ward-35.

No. of babies born-761 (including six sets of twins).

I. Complications of Pregnancy.

See report of ante-natal ward.

II. Complications of Labour.

- Twins-6 cases.
- Breech presentations-18 cases. (2)
- Transverse presentations—15 cases.
 Placenta praevia—2 cases.
 Accidental haemorrhage—1 case.
 Retained placenta—9 cases. (3)
- (4) (5)
- (6)
- Post-partum haemorrhage-6 cases.
- (8) Perineal lacerations-311 or 41 per cent. of cases.
- (9) Prolapse of cord-2 cases.
- (10) Face presentation-6 cases.

Obstetric operations performed.

- External version under anaesthetic—7 cases. Operative induction of labour—49 cases.
- (3) Podalic version-2 cases.
- (4) Manual rotation of head (Occipito posterior position)—1 case.
 (5) Forceps applied in 42 cases, or 5.5 per cent.

III. Complications of the Puerperium.

- (1) Maternal Mortality-1 case. Central placenta praevia and severe post partum haemorrhage.
- Maternal Morbidity.

Cases of pyrexia notified—9. Cases of puerperal sepsis—Nil.

Case	s of Pyr	exia-			
Mastitis	***	***		***	3
Mild sapraemia	***			***	1
Pyelitis	***				2
White leg	***	***	***	red.	2
Phthisis	***		***	***	1
					9

Babies.

Number born			3	761
Number stillborn	****			20 or 2.6 per cent.
Died in first 2 weeks	****	***	***	22 or 2.9 per cent.
No. born before 36 weeks				30 or 3.9 per cent.

Causes of Stillbirth.

Toxaemia		*** 100	1		8
Difficult labour					3
Prolapsed cord	***			***	1
Hydrocephalus					1
Prematurity					2
Anencephalus			- 55		3
Macerated-? cause		***			2
					-

20

Causes o	f death	in the	first two	vears.

Intracranial birth in	jury				6
Congenital heart di	sease			****	4
Toxaemia		***			2
Grave familial jaune	dice				2
Prematurity					4
Haemorrhagic disea					2
Placenta praevia					2
Prolapsed cord					4 2 2 4 2 2 1
					23
					_
No. of cases admitt				***	294
No. of cases admit	ted—u	nbooke	d		96
					390

Complications in booked cases.

Of the 294 cases admitted, 36 were admitted for observation only. The number with complications was 258 or 35.8 per cent of all booked cases.

Reason for admission.

Ante-natal Ward.

Toxaemia	***	***			109
Heart disease					15
Chest conditions		***		****	1
Severe varicose vein	s			***	4
For induction (Post	matur	re or sl	ight		
disproportion)					59
Pyelitis					14
For external version					7
Vaginal discharge					3
Excessive vomiting		***			6
Epilepsy				***	3
Severe constipation		***			1
Glycosuria	***			***	1
Hysteria					1
For head fitting					2
Hydramnios					1
Diarrhoea					1
Ante-partum haemor	rhage		***		22
For preventing abou	tion				3
For preventing pren		labour			5
The same of the sa					-
					258

Unbooked cases.

Total—96 cases. Reason for admi	ssion.		N	o, of Cases,	Results.
Heart disease			***	10	1 kept for delivery
Toxaemia				58	30 kept for delivery
Severe anaemia	***			1	Transfusion and kept
Phlebitis				1	
Ante-partum haemor	rhage			5	1 kept
Pyelitis			and .	6	1 kept
Glycosuria		***		1	A STATE OF STREET STREET
Excessive vomiting		***		6	1 kept
Chorea			***	1	
Severe varicose veins	5		***	4	
Investigation			***	8	
				-	
				96	

Of 96 unbooked cases the number kept for delivery was 35 or 36.5 per cent. and 61 were returned to their home or the hospital from which they were sent—63.5 per cent.

Premature Baby Ward.

Number of premature infants admitted 242 Number of weakly infants admitted 17 Number of mothers (with infant) admitted 88

Premature	Rahies	Analysis a	ccording	to weight
T. V. C. P. SOURCE CES. C.	LIGHTING.	ZA MINE YORG IN	COUP WEITE	to most in.

					No, of cases.	No. of deaths.	%saved.
		***	***	***	1		0
	***	***	****	***	44	29	34
					75	20	73
					74	13	82
***			***		42	2	95
					242	71	71

Premature Babies. Analysis according to maturity.

Up to 28 weeks 20 — 30 weeks 30 — 32 weeks 32 — 34 weeks 34 — 36 weeks Over 36 weeks				 Cases, 17 21 30 51 73 50	Deaths. 17 14 17 10 9	%saved. 0 33 43 80 88 92
Over 30 weeks	***	***	***	 		-
				242	71	71

Causes of death.

Pneumonia				3	cases
Haemorrhagic disease		***	***	4	**
Intracranial birth injur	ry	***		7	**
Oedema of Newborn				1	"
Severe toxaemia				1	,,
Cavernous Sinus Thro	ombo	sis		1	**
Prematurity only		***	***	54	"
				-	
				71	
				-	

These survival rates compare very favourably with those published in America and elsewhere and are particularly good when one realises that two-thirds of the deaths-occur within the first 48 hours, or in other words, two-thirds of the infants who die are admitted in a moribund condition.

During the 6 years that this ward has been open, 931 premature infants have been admitted, with a survival rate of 62 per cent. and of these 931 infants 491 have been less than 4 lbs. in weight on admission.

Weakly Infants. (Full term) 17 cases admitted. Died-5 cases.

Causes of death,				
Marasmus	***	 ***	1	case
Atelectasis		 	1	case
Intracranial birth	injury	***	3	cases
			-	
			5	

"Follow-up" of 250 consecutive discharges from the Premature Baby Ward:-

250 infants of	1 year or more Number Number	traced		ollo we	d up.			163 87
Of these 163	traced cases :							
	Died during 1st	year of	life	***			13	or 8 per cent.
	Fits				****	***	1	case
	Backward						3	cases
	Weakly						8	cases
	Small				***		6	cases

CITY MATERNITY HOME.

HEATHFIELD ROAD, HANDSWORTH.

The Home has been fully utilised during the year, although alterations and decorations restricted the work for several weeks and led to the transfer of cases to the Wake Green Road Home. Pending the completion of the new block, a house was rented in Heathfield Road where the nurses were temporarily accommodated. The new block, which provides premises for the antenatal clinic, for isolation and for nurses' accommodation, was completed in December and makes the Home a most satisfactory unit. A lift was installed in the main building and has improved the working capacity of the wards considerably.

It is gratifying to be able to report that the outbreaks of mastitis which have caused so much anxiety in the Home now appear to be under control. A detailed note and chart relating to the steps taken in 1936 are given and are of considerable interest. Future developments will show the ultimate value of these measures. As in all similar outbreaks the majority of the cases only developed after the patient had left the institution, so no accurate picture can be obtained without some system of "following up" cases. This method has been adopted.

The work of the Home has reached a high standard. There was no case of puerperal sepsis and the one maternal death was due to a pulmonary embolus and was inevitable in the circumstances. The attendance at the post-natal clinics equalled 57 per cent of the deliveries.

Maternity Wards. (17 beds).

Deliveries			***	***	442
Booked cases		***	***	***	411
Cases from ante-natal	ward		***		31

Ante-natal Ward. (10 beds).

Admissions				 254
Booked cases				 179
Unbooked cases				 75
(from child welfare	centre	clinics)	

Ante-natal Clinics.

No. held	***	 	194
Total attendances		 ***	2,833
Average attendance		 	14

Post-natal Clinics.

No. held	 ***	 ***	48
Total attendances	***	 	278
Average attendance		 ***	6

Mastitis.

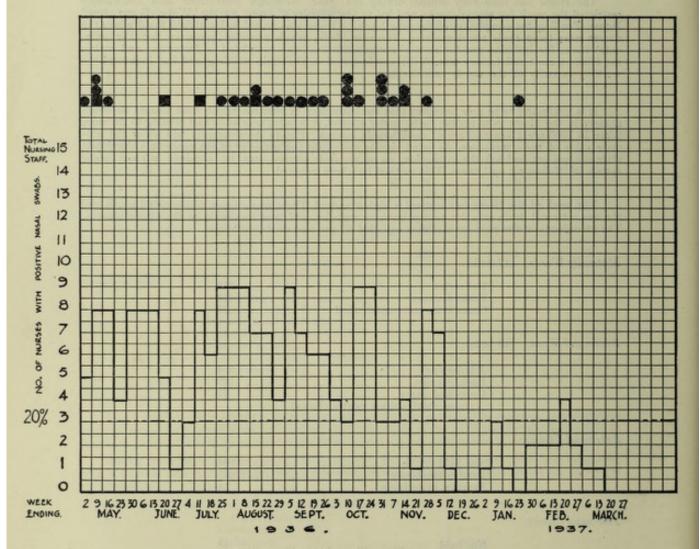
The continuance of mastitis in spite of every suggested precaution, led to an approach on new lines. It is generally held that mastitis in women is most frequently due to an infection with Staphylococcus aureus. The City Bacteriologist made a personal investigation at the Home, and decided to approach the problem from a fresh angle. Nasal swabs showed that a high percentage of the staff were not only carriers of Staphylococcus aureus, but gave almost pure cultures, an unusual and striking result. In view of this, Dr. Henry advised that weekly swabs, one from each nostril, should be taken from the nursing and medical staff, and where positive followed by nasal spraying with crystal violet. This procedure has been carried out since the beginning of May, 1936. An attempt has been made to correlate these results with the incidence of cases of mastitis and a chart made to illustrate the findings.

CASES OF MASTITIS.

Occurring within six weeks of delivery.

Charted according to date of delivery.

Indicates onset whilst in Institution.



STAPHYLOCOCCUS AUREUS CARRIER RATE.

Among nursing staff as shown by weekly nasal swabbing.

It will be noticed that since the beginning of December, 1936, the carrier rate re Staphylococcus aureus has only once exceeded 20 per cent. and during these four months only one case of mastitis has been reported. During the previous seven months the carrier rate was only twice below 20 per cent. and mastitis occurred as a fairly common complication after discharge from the Home.

These results are interesting as they emphasise the epidemic nature of the type of mastitis which has proved so troublesome, not only in the Heathfield Road Home, but in so many other maternity institutions. A similarity is seen to certain other infectious diseases where clinical cases only occur when the carrier rate is above a certain level.

Since the source of infection has been considered to be nasopharyngeal, particular care has been taken regarding the masking of not only the nursing but also the domestic staff. The masks now in use are about 8in. by 6in. in size—of two layers of material between which paper is inserted.

A bucket has been placed in a prominent position for used masks and this has helped to obviate the risk of masks being carried about in the pocket and subsequently reworn with the soiled side outwards. A fresh mask is supplied whenever a nurse goes on duty.

A further effort to reduce the infection has been made by continuous nasal spraying among the nursing staff. Crystal Violet 1/5000 has been used daily since June 6th, 1936, and any nurse with a positive swab has increased the treatment to thrice daily till the swab is returned negative.

The increased accommodation for nurses provided temporarily at 127, Heathfield Road until the new Home was completed was probably a factor in improving the general health of the staff, and preventing the intensification of carrier infection due to overcrowding. Since May 2nd, 1936, calcium sulphide grs. 1 b.d. with Adexolin 1 capsule o.d. have been prescribed during the last months of pregnancy and during the puerperium as a possible means of increasing the resistance to infection.

These measures have given most encouraging results and are being continued in the hope of preventing further outbreaks.

bici	renting further outbreaks.										
I.	Maternity Ward. (17 beds).										
	Number of cases admitted						442				
	primiparae						244	(55 pe	r ce	nt.)	
	multiparae							(45 pe			
	Booked cases						411			-	
	Unbooked cases (from Ant		l ward)		***		31				
(a)	Complications of Labour.										
	Operative inductions		***	***	***	***	15	cases			
	Placenta praevia		***		***	***	2	cases			
	Accidental haemorrhage				***		1	case			
	Prolapsed cord	***				***	1	case			
	Twins					***	8	cases			
	Breech presentations		***	***	***		7	cases			
	Face presentation	***	***		***	***	1	case			
	Instrumental deliveries				***	***	30	cases	(6.8)	per	cent.)
	Episiotomy followed by no	rmal l	abour	***	***		2	cases			
	Perineal lacerations		***		***		124	cases	(28	per	cent.)
	Post partum haemorrhage	(loss	exceede	ed 20	oz.)		27	cases		*	
	Manual removal of placents	1		***			1	case			
	Obstetric shock	***				***	1	case			
	Eclampsia (post partum)		***		***	***	2	cases			
/11	& market and a state of the								100		
(b)	Complications of Puerperium.										
	Maternal Mortality (Pulmonary embolism	follow	ing Fe	mora	Thro	mbosis).	1	case			
	Maternal Morbidity										
	Mastitis						10	cases			
	Local Uterine Sepsis	***		***			-	cases			
	Tuberculosis		***	***				case			
	Scarlet Fever		***	***	***			case			
	Bennet Fever	***	***	***	444	***	-	CARDO			
11.	Infants.										
	Number born							450			
	Number born prematurely							18	4	per	cent.
	Number still-born							200	-		cent.
	Number dying within two	weeks									cent.
	Number of cases of notified							7		•	
		*									
(a)	Causes of Prematurity.										
	i Booked cases, 9										
	m · · · · ·						4				
	Twin pregnancy	500					2				
	No cause found						3				
	ii Unbooked cases, 9						2				
	Toxaemia		***		***	***	6			1	
	Cervicitis					***	1				
	No cause found		***		***	***	2				

(b)	Causes of stillbirt	hs.						
.,	i Booked cas							
	Toxaem						5	
		ire separation		ta		***	2	
	-	ed (no cause		***	***	444	2	
	Postmat	urity		***	***	***	1	
	ii Unbooked						Igo com a la forma	
	Toxaem		(1)	***	***	***	1	
		in (no cause und neck	200	***	***	***	1	
	Cord to	und neck	***	222			1	
(c)	Causes of death	within two w	eeks.					
**	i Booked cas							
		ia with prem	aturity		***	***	1	
	Prematu	rity (33 wee	ks gestati	on)			2	
	ii Unbooked	cases, 4						
	Toxaem	ia (labour in	duced)	***			1	
	Twins (28 weeks ge	station)	***		***	2	
	Birth in	njury					1	
TTT	4-4	,						
III.							L.V.	
	Total admissio			sions)			254	
	Unbooked case		****	***	***		27 75	
	Booked cases						52	
	37 per cent. of							
	or per cents of	DOUBLE CASE	admitted	to ante-				
Pea	con for admissions							
Aca	son for admission					Boo	oked.	Unbooked.
	Toxaemia		many 100		*****		52	30
	Pyelitis		****			1	17	7
	Cervicitis				*****		6	5
	Accidental haem		*****		*****		3	1
	Hyperemesis Anaemia	*****			*****		1	3
	Cardiac disease	*****					4	5
	Phlebitis with va					1	10	2
	Investigation of	glycosuria					2	with-
		albuminuria				1	12	6
	V! "	abdominal p	oain				1	3
	Versions Inductions	*****	*****			,	4	1 2
	Prevention pren	ature labour	with abou		*****		6	3
	Rest				*****	1	13	2 5
	Observation				*****	-	- milasin	5
	Early Labour						4	The December
						15	50	75
						10		-
TV	Clinics.							
IV.	Canics.							
(a)	Ante-natal.		W.	No. held.		New patie	nts. Consultations.	Total attendances.
(4)			0			529	86	2,455
	Doctors' Clini Midwives' Cli	nine		147 47		020		378
	midnives Cil			-			-	
			Tot	al 194		529	86	2,833
				-		-	0	11 15 -
(b)	Post-natal.							
1	No. held.	No. of par	tients			Total atter	ndances. Atter	ndance Rate.
	48	25				278		per cent.

CARE OF THE UNMARRIED MOTHER.

The method of dealing with the unmarried mother, and with married women and widows with illegitimate children, was detailed in the annual reports for 1930 and 1931.

During 1936 the same procedure was followed as in 1935. A total of 350 unmarried mothers and 50 married women with illegitimate children were dealt with during 1936.

Of the total cases, 289 were first cases of illegitimacy.

The cases were dealt with as follows:-

Dealt with at				First cases.	Multiple cases.	Married Women
Hope Lodge				59	_	-
The Hawthorns (Salvation Army)				24	12	2
Woodville (Roman Catholic)				13	-	_
Cleveland House (Venereal Disease	cases)			4	1	_
The Hostel (Post-natal only)			******	8	1	-
Birmingham Infirmary			*****	2	6	2
Greenhill Hostel				4	_	-
Own home, except for confinement		*****		129	36	31
Own home entirely			*****	46	5	15
				289	61	50

The number of cases with venereal disease was 22. All but two received systematic treatment.

V.D. cases—22.

Cases admitted	to Clevela	nd Ho	use						5
Cases admitted	to Westerr	Road	V. Blo	ck		111		1	8
Cases admitted	to General	Hospi	ital	***					2
Cases attended	Lancaster	Street	Clinic	(babies	born	at Du	dley	Road	
Hospital			***	****		****			5
Defused treatm	ant								9

The subsequent history of cases dealt with in previous years is given below:-

Cases dealt with,					Further pregn	ancies in 1936.		
1985	416	***			2nd. 2	3rd. 3	4th.	5th.
1934	428				12	1	1	
1933	451				8	3		-
1932	318	***	***	***	1		-	-
1931	239	***			1		-	-
1930	222	****	***	***	2	-	-	

It may be interesting to note the number of very young girls during 1936; 99 of the cases were under 21 years of age and 14 of these cases were under the age of consent (8—16 years of age; 5—15 years of age; 1—13 years of age).

Of the 400 cases, 75 had no parents, 76 only a mother and 38 only a father (50 per cent.).

INFANT LIFE PROTECTION.

The supervision of foster mothers and children, extended under the Children and Young Persons' Act, 1932, applies to children up to the age of nine, and includes all children received for reward or promise of reward apart from their parents, even for limited periods.

The department receives many applications for recommendations of foster mothers as well as applications for foster children, the former being much more numerous. Advertisements for suitable foster mothers have proved necessary.

The department frequently assists suitable persons wishing to adopt children.

The foster mothers on the whole co-operate in the most friendly way with the health department and when difficulties arise they frequently call on the staff to assist in their settlement. Care is taken to maintain the mother's relationship with, and responsibility for, her child placed with a foster mother.

At the end of 1936, 347 foster mothers were on the register and 372 foster children under supervision.

During the year :-

177 applications were received for foster mothers.

170 applications were received for foster children.

387 foster mothers were interviewed at the Council House for advice and instruction.

355 homes were registered.

264 visits were paid to ascertain the suitability of homes offered.

659 special visits were paid.

176 routine visits were paid.

THE FOSTER MOTHER SERVICE.

The foster mother service which came into effect early in 1935, has proved to be of great benefit, especially to unmarried mothers who for economic reasons would be unable to choose for their children a home of reasonably good standing. Full details of the scheme were given in the report for 1934.

At the end of 1936 :--

122 foster mothers were in the scheme.

140 foster children were in the scheme.

A number of children under this service were removed for the following reasons:-

25 able to return to a responsible parent or relative.

12 legally adopted.

7 removed to an institution.

I mother left City, child moved to be placed nearer the mother.

1 died.

17 removed to another foster mother under scheme.

The assistance given to parents under this scheme has continued to be of great practical help, and in many cases has been the means of enabling the child to remain secure and well cared for in the foster parent's family.

THE ADOPTION OF CHILDREN IN BIRMINGHAM.

Although adoption is not desirable in the majority of cases, it is in certain instances the only solution of a difficult problem and the best course to follow in the child's interest.

The undermentioned is a summary of adoptions arranged by this Department for the year 1936.

Interviews.

Visiting.

Applications for the adopt Other interviews	ion of children	1	187
			266
		ME.	
Homes inspected Other visits (special)			97 104
			201
Homes rejected			3
Adoptions arranged by Pu Adoptions arranged for o Adoptions arranged privat	ther Societies	ept	50 3 4
	Total adoptio	ons	57

Reasons for adoptions arranged by Public Health Department.

```
In 3 cases husband and wife re-united, if illegitimate child adopted.
            mother married and husband not willing to take the child.
   13
            mother has another child to support.
..
        **
            mother unable to support child.
        **
            mother's relatives object to keeping the baby.
    5
**
        **
            unsatisfactory mother.
    6
        11
22
            mother's continued ill-health, large family and unsatisfactory conditions. Child not in
**
                      parents' care since early infancy
            mother cannot return home with baby as parents are unaware of the child.
            mother proposes to re-marry.
       22
            adoption arranged for Societies.
    3
11
        22
            adoption arranged privately.
    4
13
   57
```

Number of children adopted by foster parents-10.

SUPERVISION OF MIDWIVES.

During the year 1936, 238 midwives notified their intention to practise in the City. Of these 25 resided outside the City, and therefore do not come under routine inspections. Of the remainder, 10 were temporarily employed and 30 were attached to various institutions.

During the year, 13 midwives gave up work owing to various reasons, such as old age, ill-health, or from having taken up work elsewhere.

There were 161 residing in the City and having private practices at the end of 1935 and 180 at the end of 1936.

The midwives sent for medical help in 2,867 cases, for the mother in 2,052 instances and for the child in 815.

Reasons for sending for medical help:-

For Mother—2,052					For Child—815.						
Delayed labour	***			498	Ophthalmia		2		100	504	
Laceration of perineu	m	***	***	660	Prematurity					86	
Haemorrhage				182	Convulsions		***	444	***	4	
Adherent placenta				69	Jaundice					19	
Abnormal presentatio	n			96	Deformity	***				44	
Abortion or miscarria	ige	***	***	35	Skin eruptions			***		28	
Rise of temperature		1	***	117	Other causes				***	130	
Other causes				395							

Seven midwives were suspended during the year; four with an infected throat, 2 with septic fingers and one as a scarlet fever contact. In four instances it was found necessary to report a midwife to the Central Midwives' Board, and in one case the midwife was struck off the Roll.

The following table shows the number of cases taken by individual midwives:

Midwives	taking	under	50	cases	per	annum	84	
**	,,		50-100	,,		,,	52	
**	**		100-150	**		,,	19	
,,	,,		150-200	,,		,,	8	
,,	,,		over 200	,,		,,,	4	

The midwives attended 7,672 cases (45 per cent. of the births and stillbirths belonging to Birmingham), and in 2,901 cases they acted as maternity nurses (17 per cent. of the notified births); total, 62 per cent.

The following table is of interest :-

MIDWIVES' CASES-MEDICAL HELP CALLS.

	1927.	1928.	1929.	1930.	1931.	1932.	1933.	1934.	1935.	1936.
Total cases attended	10,921	10,655	10,934	9,398	9,894	9.205	7.933	7,555	7,496	7.672
Total medical help				10000	100000		Contract.			10000
calls	2,518	3,236	3,026	3,360	3,065	2,706	2,256	2,479	2,607	2,867
Percentage of calls	23	30	28	36	31	29	28	33	35	37
Reasons :-										
Delayed labour	628	902	806	913	758	592	432	500	413	498
Lacerated perineum	494	641	674	775	708	620	539	550	580	660
Haemorrhage	133	210	190	213	220	186	158	165	179	182
Adherent placenta	94	104	85	79	61	71	56	75	55	69
Abnormal										
presentation	83	91	102	131	114	106	141	93	100	96
Discharging eyes	313	374	380	461	427	379	318	354	440	504
Other causes	773	914	789	788	777	752	612	742	840	858

The following visits were paid during the year by the Midwives' Inspectors :-

Routine visits to midwives							241
Special visits to midwives							169
Visits to stillbirths							418
Visits after neo-natal deaths		***	***		***	***	344
Visits to ophthalmia neonatorun	n cases	***	***	***	***	***	954
Visits to puerperal sepsis cases			***	***	***	***	155
Visits to nursing homes	***	***	***	***	***	***	52
Visits to handywomen		***	***	***		***	32
Other visits		***	***	***	***	***	187
Unsuccessful visits		***	***	***	***	***	501
The number of midwives intervie	wed w	as	***	****	***	***	389

District Midwifery.

Apart from admission to institutions, 11,578 women were delivered in private houses. The number of independent practising midwives is 175 and they attended 5,772 births as midwives and 2,901 as nurses. There are also 11 midwives employed in 9 districts (2 acting as assistants and relief midwives) for the training of midwife pupils from the Maternity Hospital. These women attended 1,900 cases, out of which 225 were also attended by medical students. Under a special arrangement made by the Queen's Hospital, medical students attended 241 cases at their homes. The balance of district midwifery (764 cases or 4 per cent.) was attended by doctors assisted by qualified monthly nurses, relatives or handywomen. In all, private medical practitioners attended 4,345 confinements or 24 per cent. of the total.

The Public Health Committee pay the midwife's fee in certain cases of unemployment where the maternity benefit has lapsed, provided the home conditions are suitable for the confinement. The fee was paid in 46 cases during 1936.

ATTENDANCE AT CHILDBIRTH,

The births occurring in the City during the year were as follows:

				17,754
Failed to notify	200	1777	***	272
Stillbirths notified	1997		***	651
Births notified		***	***	16,831

^{*}This figure does not include Birmingham confinements occurring outside the City, but includes the confinements of a number of persons whose residence was outside.

Medical practitioners attended 21 per cent. in the patients' homes, medical students 1 per cent., and midwives 43 per cent., while 35 per cent. of births occurred in institutions. This is set out in detail as follows:—

Cases at home attended by midwives.

(a)	As midwives		 	*7,672-48%)
(b)	As nurses	 	 	2,901—17%	10,573—60%

* This figure includes 1,900 cases attended by Maternity Hospital midwives, and also 680 cases where a Doctor was called in by a midwife.

Cases at home by Queen's Hospital Students _____ 241-1%

*As shown above doctors attended also 17% with midwives as nurses.

THE RESERVE OF THE PARTY OF THE

Cases in Hospitals, Homes and Institutions:

At Dudley Road Hospital				 1,158	1
At Selly Oak Hospital	 ***		***	 783	
At Wake Green Road Home				 755	The state of the s
At Heathfield Road Home			1	432	
At Maternity Hospital	 	***		 1,383	Melantina (h.)
At Queen's Hospital	 			 251	The second second
At St. Chad's Hospital	 			 311	6,176-35%
At Women's Hospital	 			 41	CHEST STATE
At General Hospital	 	***		 81	
At Hone Lodge	 			 87	the somes to
At other institutions	 			 2	
At private nursing homes				 992	dress that was
		***	***	 002	
				T	otal 17,754

EMERGENCY MATERNITY SERVICE.

In 1936 an emergency maternity service was inaugurated by the Public Health Department in consultation with the Maternity Hospital and St. John's Ambulance Brigade. The service is available for cases of obstetric shock and haemorrhage which are unfit for removal to hospital. In such cases the doctor in charge of the case in addition to obtaining the services of one of the obstetric consultants may also telephone to the Maternity Hospital for a special obstetric outfit and trained nurse to be sent to the case.

The nurse and the outfit are brought to the patient's house by ambulance, which is also available for subsequent transfer of the patient to hospital if necessary.

The service was used in five cases between July and December, in every case with benefit to the patient, and on at least one occasion the obstetric consultant expressed the opinion that the service had probably saved the patient's life. There has been no mortality among the cases in which it has been used.

NURSING HOMES.

At the end of 1936 there were 46 nursing homes in Birmingham. Five new homes were opened during the year and three homes have been given up. In the great majority of the homes the standard of nursing and equipment is satisfactory and in many it is excellent.

Total number of beds in these homes	 		432
Number of Homes which are equipped for surgical work	 	***	15
Number of Homes which take chronic or senile cases only	 	***	14
Number of Homes which take maternity cases only	 ***	101	11
Number of Homes which keep some beds for maternity cases	 	***	22
Approximate total maternity beds	 		103

RESIDENTIAL SCHOOLS.

In recent years the provisions of the Children and Young Persons Acts in relation to infant life protection have been extended to include supervision of children under nine years of age who are boarders in schools. In 1986 children in 11 residential schools in Birmingham have come into this category, and the schools have been inspected in regard to the accommodation, diet and general welfare of the children. Conditions have been found to be satisfactory, except in a few cases in regard to means of escape and protection in case of fire, and in these cases the advice of the Department has been acted upon.

BIRTH CONTROL CLINICS.

The data for 1936 represent the first full year's working of the birth control clinics opened in connection with the gynaecological departments of Dudley Road and Selly Oak Hospitals. These clinics were opened in July, 1935, and September, 1935 respectively. The particulars are as follows:—

1.	Number of women seeking advice:	Dudley Road Hospital,	Selly Oak Hospital,
	(a) Married women suffering from gynaecological conditions, making pregnancy detrimental to health	20	25
	(b) Married women suffering from other forms of sickness detrimental to them as mothers, in that child-bearing is likely seriously to endanger life	29	37
	(c) Other cases not coming within the categories authorized by the Ministry of Health	6	3
2.	Number of women advised in Birth Control Methods	49	62
3.	Number in which birth control advice was given, but pregnancy resulted	1 (Advice not followed).	4 (Advice not followed in 2

Paralysis General Exclusive of

TABLE II.

CAUSES OF DEATH AT DIFFERENT AGE PERIODS IN 1936.

						Ages .	AT DE	атн.	min-	riple.	5075	All
No.	Causes of Death.	Sex	0-	1-	2-	5-	15-	25-	45-	65-	75-	Ages.
1.	Typhoid and Para- typhoid Fevers	M. F.	-	_	_	-	-	_	-	_	-	
1a.	Small Pox	M. F.	-	-	_	-	_	-	_	-		-
2.	Measles	M.	4	6	5	3	_	_	1	_		19
3.	Scarlet Fever	F.	4	8 -	7	2	2	-	-	=	=	20
4.	Whooping Cough	F.	30	10	10	1		1	1	_	=	51
5.	Diphtheria	F.	36	10	9	18	1	_	_	_	_	56 35
6.	Influenza	F.	3	3	9	16	1	13	33	15	8	28 77
6a.	Poliomyelitis	F.	_	=	1	2	2	6	16	11 -	22	59
6b.	Polioencephalitis	F.	-	_	_	-	_	1	_	_	_	1
7.	Encephalitis Lethargica	F.	_	_	_	_	1	3	5	2	_	11
8.	Cerebro-Spinal Fever	F.	2	1	1	2	2 2	1	3	1 -	_	10 9
9.	Tuberculosis of Respir.	F.	6 2	1	3	1	1 49	159	196	21	5.	437
10a.	System Tubercular Meningitis	F.	4 2	3	1	3 4	88	118	73	7	_	297
10b.	Tuberculosis of the	F.	1	2	2	5 2.	1 -	1 -	1	=	_	5
10c.	Abdomen Tuberculosis of Spinal	F.	_	_	_	1	_	5	_		-	5 2
10d.	Column Tuberculosis of Joints	F.	-	_	-	2	_	1 -	1	1	_	6 2
10e.	Disseminated	F.	1	1	1	2		-	1 2	-	=	7
10f.	Tuberculosis Tuberculosis of Glands	F. M.	2	_	2	2	3	1 1	2	1	-	12
11.	and other parts Syphilis	F.	1	1	I	=	3	9	1 26	5	1 2	3 46
12.	Gen. Paralysis of Insane	F.	1 -	_	=	_	_	8	11 16	6	1	19
13a.	Tabes Dorsalis Cancer of	F.	=	-	T	-	85	1	6	2	-	9
1000	Buccal Cavity and Pharynx	M. F.	1 -	=	Ξ	=	1	1	28 10	28 2	11	70 15
13b.	Œsop., Stomach, Liver, Pancreas	M. F.	=	=	Ξ	1 -	2	17 14	103 68	87 78	36 45	244 207
13c.	Peritoneum and Intestines	M. F.	=	1	=	=	_	10	70 70	77 65	43	200 190
13d.	Female Organs	M. F.	=	1	=	=	1	21	92	39	11	165
13e.	Breast	M. F.	=	-	=	=	=	22	2 85	36	23	3 166
13f.	Skin	M. F.	=	=	=	=	=	=	2	1	2 2	3 4
13g.	Other Organs	M. F.	=	=	1 2		9 4	17 13	125 41	80 25	36 10	268 97
14.	Diabetes	M. F.	=	=	=	<u>-</u>	2	1 1	16 40	36 43	8 23	63 108

Table II.—continued.

Causes of Death at Different Age Periods in 1936.

	CAUSES						S AT DE					All
No.	Causes of Death.	Sex.	0-	1-	2-	5-	15-	25-	45-	65-	75-	Ages
14a.	Rheumatic Fever	M. F.	-	-	-	7 17	10 9	6	4 4	3	-	30
14b.	Chronic Rheumatism Osteo-Arthritis	M. F.	=	=	=	=	-	3 2	9	14	5 33	31 63
15.	Cerebral Haemorrhage, etc	M. F.	2	=	=	=	-	3 5	45 59	58 108	37 125	145 298
15a.	Other Nervous Diseases and Sense Organs	M. F.	34 27	9	3 6	14	13 12	22 14	31 27	19	6	151 123
16.	Heart Disease	M. F.	3	Ξ	4	3 5	12 23	61 63	420 308	412 462	388 644	1303 1506
17.	Aneurysm	M. F.	_	_	=	2	-	4	15	2 6	2 3	25 15
18.	Arterio-Sclerosis and other Circ. Diseases	M. F.	=	1	=	-	=	9 7	82 66	170 89	143 141	405 304
19.	Bronchitis	M. F.	3 11	1 2	_	=	=	4 2	48 22	42 40	61 68	159 145
20.	Pneumonia (all forms)	M. F.	90 59	21 13	10 14	9 8	14 10	72 28	183 60	78 35	51 47	528 274
21.	Other Respir. Diseases	M. F.	5	1	1 2	4 2	3	8 12	44 21	11 15	13	90
22.	Peptic Ulcer	M. F.	_	=	=	=	1 1	13	77	14 9	6 6	111 38
23.	Diarrhoea and Enteritis	M. F.	55 27	5	-	1	- 3	- 8	3 4	3 3	2 6	69 53
24.	Appendicitis	M. F.	_	1	3 4	6 8	7	10 8	12	1 2	4 3	44 36
25.	Cirrhosis of Liver	M. F.	_	=	=	=	-	2	18	6	-	26 14
26.	Other Dis. of Liver, etc.	M. F.	1	Ξ	Ξ	=	_	3 3	8 12	7 12	11	19 38
27.	Other Digestive Diseases		6 8	1 4	1 2	5 6	2 2	10 5	35 33	22 20	12 19	94 99
28.	Acute and Chronic Nephritis	M. F.	1 1	=	1	5 3	6 5	26 13	52 39	39 33	26 34	156 128
28a.	Other Genito-Urinary Diseases	M. F.	2 4	-	=	-	1 2	3 10	40 11	47 6	52	145
29.	Puerperal Sepsis	M. F.	=	=	_	=	- 8	17	_	=	=	- 25
30.	Other Puerperal Causes	M. F.	=	_	_	=	<u>-</u> 5	30	_	=	_	35
31.	Congenital Debility, Premature Birth, Malformations, etc.	M. F.	308 229	1	1 1	1	<u>-</u>	- 1	1		- 1	312 233
32.	Senility	M. F.				_	=		1	13 10	78 147	92 157
33.	Suicide	M. F.		=	=		3 3	21 19	36 20	16	3	79 49
34.	Other Violence	M. F.	10 4	3	11 5	27 10	31 12	32 19	41 23	47 30	40 47	242 150
35.	Other Causes	M. F.	14 13	3 3	2	8 8	16 13	36 42	49 72	29 41	12 26	169 218
	All Causes	M. F.	584 437	72 59	74 71	130 115	194 219					6031 5659

TABLE III. Births and Deaths Registered in, or belonging to, each Ward during the Year ending December 31st, 1936

-		166
Total of City	6031 5659	2 2004 9 20 20 20 20 20 20 20 20 20 20 20 20 20
Not Located	42	
Yardley	143	- -
Washwood	128	
Stechford	118	4 - 8
Sparkbill	199	-
Sparkbrook	217	111111100010010111101010000000001111111
oqog	148	
Small Heath	168	
Selly Oak	140	
Hawbask	118	
Yalidey	156	- - - - - - - -
St. Paul's	208	
St. Mary's	193	
St. Martin's & Deritend	282	-
St. Bartholomew's	218	1 -
Rotton Park	210	1 -
Бепу Вап	1145	
Northfield	152	
Moseley and King's Heath	217	
Market Hall	139	
Lozells	185	
Ladywood	181	1 - - -
King's norton	151	
Harborne	124	
Handsworth	167	
Hall Green	137	- 4-
Gravelly Hill	124	
Erdington	141	
Edgbaston	180	- 0.40
Duddeston and Nechells	276 191	
Bromford	1111	
Balsall Heath	257	- - - - -
Aston.	212	
All Saints'	211	
Acock's Green,	165	
Sex	E K	法国法国法国法国法国法国法国法国法国法国法国法国法国法国法国法国法国法国法国
EATH.		rphoid & Paratyphoid Fever rall Pox arlet Fever hooping Cough iphtheria fluenza fluenza fluenza loliomyelitis olio cephalitis brechalitis rebro-Spinal Fever uberculosis of Respiratory System uberculosis of the Abdomen uberculosis of the Abdomen uberculosis of Tuberculosis of Joints isseminated isseminated Joints uberculosis of Glands and other parts
or Di	uses	phoid & Paratyphoid Fever assles arlet Fever hooping Coupphtheria phtheria alicomyelitis bilomyelitis neephalitis reephalitis reephalitis reephalitis reephalitis reephalitis of Respiratory System aberculosis of the Abdome uberculosis of the Abdome uberculosis of the Abdome uberculosis of Spinal Columberculosis of Glands and other parts
CAUSES OF DEATH.	All Causes	Typhoid & Paratyphoid Fever Small Pox Scarlet Fever Whooping Cough Diphtheria Influenza Poliomyelitis Poliomyelitis Poliomyelitis Techargica Cerebro-Spinal Tuberculosis of Respiratory System Tuberculosis of the Abdomen Tuberculosis of the Abdomen Tuberculosis of Spinal Column Tuberculosis of Spinal Column Tuberculosis of Joints Tuberculosis of Juberculosis of Juberculosis of Spinal Column Tuberculosis of Spinal Column Tuberculosis of Glands and other parts
3	V	TON SOUTHER THE THE

TABLE III. (Continued).

Г	Total of City	31 31	20 2	200	190	1663	268 4 3	68	308	833	298	303	25	102 103 304 159	528	387
-	Not Located		61	9 - 1	11-	- -	110	T	TT		100	16 1	13 1	10	8/-	
	Yardley	- -	8	10 4 4	-1	1 60	∞	000	es	- -	9100	27	20 01	-1-1-01	15	- 01 01
	Washwood Heath		3 6	984	1 14	110	114	401	+-	- 01	960	27	1	1920	15 2	6
	Stechford	1111		60 50	E 4	9	1 04		c1		01 4 65	1975	1.	-1-00-0	91 9	11
	Sparkbill	04 -	00 00	107	11	1=	11=	10 01	+	0 01 01	4 = 10	1287	# 1º	2000	91 8	19
	Sparkbrook	1-00		600	61 6	14-	- 6	401	es	104	- 23 +	4 # !	41	161	16	60 4
	oyos			0 9 01	8 8	9	01	+01	- 0	01	10 9 4	01 75 5	2	1 = ∞ 00 ;	119	- 61
	Small Heath	0 01	-11	524	0 0	10	-10	- 61		01	10 00 01	- 88	1 25	1=+1	91	10 01
	Selly Oak	1-11		01 69	1 4	100	4	- 3	9	01	9 = 7	61 13:	- 1	1000	1 9 10	00 10
	Ilawbas	11-1	7-	0.0	rc 4	18	111	c1 —	01	1 61	+00	32 -	21	011000	13	- 1
	Soltley	010101	-1	9 00 00	01 10	100	∞	60 4	0 10	·	r 6 5	30 2	g	-= 12 - 40	16	4
	St. Paul's	010001-	-1	272	= 1 %	100	12 1	00 1	24 -	60	10 4 00	24 6	81-	13	23	401
	St. Mary's	9 21	7-	8 7 2	∞ ∞	100-	13	0101	4	-11	9 0 6	9 # 4	9	197 00 0	12 20 0	88
P	St. Martin's and Deriten	04	67 -	00 10 17	ω ω	141	1=	40		0	13 8 3	83.00	801-	13 23 -	32	10 00
SA	St, Bartholomer	11	64	504	9 4	1+1	121	00 03 0	21 -	1 10	800	8 4 8	801-	9116	6 23	01 01
	Rotton Park	- 01 01	4	= ∞ =	4 -	141	19	- 61 6	0001-	1	9 6 4	01 45 8	8	- 6 2 9 0	15	- +
	Бепу Выт	1111	- 1	10 4 61	10 c1	100	- 8		-	- 01	6 4 1	18	9	- 10 co	1 11 6	- 1
-	Northfield	11		6 + 5	4 9	1 00 1	01	00 01 0	21 01	0 -	101-10	2330	1	= 6 4 4	126	4
	Moseley and King's Heat	1	eo	8 12 7	2 2	1 00	- ∞	440	0 -	- 01	5 4 6	C1 35 8	3	- a 81 m c	119	∞ →
	Market Hall	8 61 85 -	3	r-10	4 E	14-	10	01010	1 1	111	01004	- 83 8	8-1	514-4	5 4	10 01
	Lozella	11	00	250 +	x +	+	101	9 - 0	0 -	- -	+ 27 %	- 51 8	8 64	23 5 a	==	+
	Ladywood	11-1	- 1	10 10 00	4 6	64	10	9010	4	- 01	300	39 2	1-	92 29 29	16	401
	King's Norton	- 62	8 -	9010	× =	14	1 ∞		- 67	- 4	3 = 3	29 29 35	3 -	187	10 4	
	Harborne	- -	11	01 9 10	0 00	19	100		- 8 -		+ 00 01	352	304-	V = 8 5	10	co
,	Handsworth	11	11	∞ - co	9 10	101	1 00	- 01 9	0 - 6	01010	000	26 43	8 1	12 9 1 7	16	04
	Hall Green	1111	-1	9 4 6	0 4	- 8	140	000	4 1 01	1 010	004	28 28	11	∞ - ∞	7 7	-
11	Gravelly Hi	-1-1	11	4 4 61 6	x 4	1	199	0001	11		01000	37	- 1	50 00 00	10 8	- 61
	Erdington	-111	- 1	449	0 0	01 00	16	0 64 0	0	100	2014	288	1-	821-2	5 5	21 00
	Edgbaston	01-11	3	404	4 1 7	1-1	100	20 4 0	0	- 41	15	43 6	111	8 0 4 5	91	01 4
bas	Duddeston	401 -	65	- 00 to 0	0 0	141	127	01 01 =		0-0	9 0 6	67 64	11	7029	124	4-
	Bromford	-111	11	4101	4 0	9	100	10 In	001-	119	240	282	01	00	96	1-
th	Balsall Hear	11	4	5000	5 4	1	155	20 01 0	0000	-01	16	56 57	11	19 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 4 2	00 00
	Aston.	1 61	eo	2000	2 0	100	10,	4 01 -	- 61 60	- 00	1=-	524 3	-	5248	27 6 6	- x
	All Saints'.	6	01	0000	0 10	101	100	24 04 07	0 - 01	03 100 0	2 = 21	66 42 ~	-1	8 = 18	827	4
	Acock's Green.	10 -	-1	900	2 61	-	10.	-10	1	110	998	33	-	20000	16	27
	Sex.	MENE.		- 10	EKE	M.H.M.	E.M.F	. M.	E K		0		H.F.	MEME	ME:	E E
	EATH.	Syphilis Gen.Par.ofInsane, Tabes Dorsalis	ANCER OF Buccal Cavity and Pharynx	Esop., Stomach, Liver, Pancreas Peritoneum	and Intest. Female Organs	: :	ans	:	Rheumatic Fever	Chronic Rheum. Osteo-Arthritis	Haemorrhage.etc Other Nerv. Dis.	and Sense Organs Heart Disease	:	Arterio-Sclero. & other Circ. Dis. Bronchitis	lla)	
	OF D	r.off s Do	Succal Cavit and Pharynx	Esop., Stom Liver, Panc Peritoneum	and Intest.	: :	Other Organs	es	natic	ic Ri	al orrha	Dise	ysm	o-Selv Circ	s)	Kesj ases
	CAUSES OF DEATH	Syphilis Gen.Par. Tabes	CANCER OF Buccal C and Phar	Geson Live Perit	Femi	Breast	Othe	Diabetes	theun	hron	Haemon Other N	and Sense Org. Heart Disease	Aneurysm	Arterio-Scl other Cir Bronchitis	Pneumonia (all forms)	Other Kespir. Diseases
	0	v ?	0	4	754			A	H	0	0-0	中国	Y.	A H	P4 (

TABLE III. Continued.

		100		
Total for City	1111 388 538 269 369 114 119 389 946 946 946	156 145 145 39 35 35	312 233 92 157 79 49 49 150 169 242 242 242 242 242 242 242 242 242 24	1021
Not Located		614	2 20 2 2	280
Yardley	0 01-1	0010041111	89-4	25 402
Washwood Heath	0101-01-1-1-101	010100	r4-018-r 80	18
Stechford	- 0000 - -00	ν-401 - ω	50 400 000 5	34
Sparkhill	P-01 4 -04	0 0 + 61 -	57000-40400	23
Sparkbrook	4 40 -010101	11111657	4=88814 97	34
oqos	001-11101-1000	400 -	81.0000014 4	25 268
Small Heath	401- 1- 01-01	400 - -	00004-17-00	17
Selly Oak	01-00 -01-440	01-1-01 -	21.4401 10000	17
Sandwell	01- 0101 - - 0101	0001111-	24-2-22420	10
Saltley	01 -01 10	10011118	23 8 8 2 4 - 8 7	36
St. Paul's	10-01 - -01014	00011111	01725452210	51
St. Mary's	0-000-111-40	000-1-10	20 21 -10 8 9 7	46
St. Martin's and Deritend	0 100 - - 001	000-1-1-	8 8 4 2 5 5 7 2	65
St. Bertholomew's	1 0 0	4-1001 -	7000 500 600	44
Rotton Park	0-40111100	2001111	P00200 00404	29
Perry Barr	- 10014-1 1001	44-01 00 -	12 2 2 2 2 2 1 4 2 2 2 3	56
Northfield	8- 404	2010 1 101 1	001-100	37
Moseley and King's Heath	40 0000101-0-4	0011-00 01 00	5547 5286 81	29
Market Hall	01010100 0101	00141111	∞+01-01-++c0+	288
Lozells	4 0101410	1 100000	80000-1001	24 500
Ladywood	861618 - +-	000 1 1	race -rea	40
e'gniM nortoM	8 8 - 4	61410 61	30000000000000000000000000000000000000	16
Harborne	-01 -01 01 4	4 10 4 61	00-00-0400	21 323
Handsworth	100-001 - +0	9 + 8 - -	01/40000144h	17
Hall Green	01- 01-4 10-	V4401111	E & & € 1 & € + + &	31
Gurvelly Hill	8 8 -	01001 - 01	1018 3018	15
Erdington	0000 00	-00 - 01	F010 +000000000	339
Edgbaston	- 01 - 01 - 01 9 0	400	m + m - m m m m	11 236
Duddeston and Mechells	r + + - 01 ww	0901-1-10	71886-2718	58
Bromford	01 -01-01- -4	21-11-1-	0000-00000	15 459
Beleall Heath.	4000040	11113611	0040000000	24 435
Aston.	œ 01 01 1 − 1 − 1 01 01 4 01	998 1 - 1 62	500-07-0+	46
'etnis2 IIA	6 - - 6	988- 61	52 24 2808	35
Acock's Green.	10-01001-01 -000+	0444 - 0	∞+∞+∞01∞0+©	26
Sex.	HENEREKERE	FREEERER	PREPREPRE	
E .	i ii i	sis sis	s : : s	Year
DEA	s and s tis tis of Li of tc.	is into Discourage Sep	Bart hati	ler 1
CAUSES OF DEATH	Peptic Ulcer Diarrhoea and Enteritis Appendicitis Cirrhosis of Liver Other Dis. of Liver, etc Other Digestive Diseases	Nephritis Nephritis Other Genito- Urinary Dis Puerperal Sepsis Other Puerperal Causes Con. Debility,	Malformations, etc. Senility Suicide Other Violence	Deaths Under 1 Year Births
CUSE	eptis lard Ent Pper rrho rrho Disc	Nephri ther Ge Urinar nerpera ther Pu Causes	Malfo etc. Senility Suicide Other V	Deaths Births
3	O C C P D P	4 0 4 0 3	8 8 0 0	AM

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TABLE IV. DEATH-RATES FROM ALL CAUSES IN WARDS.

Sparkhill	11.511.010.3 7.1 8.5 9.5
Ming's Morther Ming	11.511.010.3 7.1 8.
Sparkhill Spark Assert	11.511.010.3 7.
Manage	11.511.010.
Manage	11.511.01
Spartchill α α α α α α α α α α α α α α α α α α	11.51
morrow e'gniN	
**************************************	08.7
	911
тан 8°8mM жастаса тан 2 тан 2 тан 2 тан 2 тан 3 та	0 0 0
Acock's Green	9.0
Yardley	866
Steechford on co	8.9
Fromford School	9.0
Gravelly Hill Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly Gravelly	8.9
Erdington co	8.7
Ferry Barr 60 10 10 10 10 10 10 10 10 10 10 10 10 10	6.2
drowsbash ww. 4 w w - 6 w w w w 6 0 0 0 0 4 v - 1 0 4 w drowsbash	2.7
0.0.1.0.4.1.0.0.1.0.0.1.0.0.0.0.0.0.0.0.	60.00
40 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	.911
odos 610 8 - 1 - 6 04 0 - 54 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	213
### dibbilk 91-4999000000000000000000000000000000000	512.
All Saints' 2000 0 4 0 4 0 4 0 4 0 5 0 5 0 5 0 5 0 5	313.
Rotton Park Botton Park Botton Park	12.2
Felghaston inchested in Felghaston inchested i	12.1
Hastell Heath work was well to be a constant to the Hastell Heath	12.8
Sparkbrook 4 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 &	3.2
To small Heart No. 80 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.013.
0047-1-01-4-014-000-017-00	1 500
Heart 000004404040000000000000000000000000	710
boowdassW 100111100000000000000000000000000000	000
######################################	511.
silaso.1 con roci con	3.53
Central 60 10 30 44 50 44 44 44 50 50 50 50 50 50 50 50 50 50 50 50 50	
boowybal 4400 C 6040 C C C C C C C C C C C C C C C C C C	13.
	13.2
s'mirnell as 2000 000 000 000 000 000 000 000 000 0	13.3
#S TO CO CO F 4 CO	12.8
Duddeston Duddes	13.2
st. Mary's 4rr 2 o 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.7
*Inseq .38 88.88.88.68.64.44.48.48.48.48.48.48.48.48.48.48.48.48	3.81
Амета В 1923 В 1924 В 1932 В 1924 В 1933 В	1935

NOTE.—Figures for individual Wards for 1935 and 1936 cannot be compared with those for preceding years, owing to many alterations in the boundaries of the Wards in November, 1934. The averages for the Groups of Wards (Central, Middle Ring, Outer Ring) may, however, be considered as roughly comparable.

ö Groups the for ii. aries of the comparable. e boundaries roughly comp the alterations in be considered g to many however, owing may, h for preceding Ring, Outer be compared with those Wards (Central, Middle cannot 1936 and 1935 for Wards individual Figures for NOTE.

					Sai TotuO	4.4
					Harborne	9.0
			171		Northfield	8.0
Outer Ring	19.6 16.1 16.8 16.8 16.8	19.2 16.3 16.3 15.2	14.6 14.3 14.9 16.2	16.1 13.4 14.6	King's Norton	13.61
Harborne	16.4 16.4 15.3 16.9	20.2 15.5 113.0 114.5 11.0	12.5 12.5 12.5 12.5 12.5 12.5	12.4 10.4 11.2 11.6	Selly Oak	12.8
Northfield	19.1 16.2 20.9 17.2 19.3	19.6 20.8 19.8 17.7	16.5 18.3 15.3 16.0 21.3	22.9 20.1 20.9 20.9	Moseley and King's Heath	13.8
morioN s'aniM	21.3 14.5 16.3 15.0 17.7	18.0 17.6 17.1 14.5 14.2	13.6 13.6 13.6 13.6 14.6	11.9	Hiddrag	11.8
Selly Oak	24.0 19.2 18.1 26.7 26.7	20.8 17.6 17.7 15.7 16.0	13.6 13.6 13.0 13.1	13.6 12.8 12.6 13.0	Hall Green	15.5
Moseley and King's Heath	13.4.1 13.5.7 19.9	12.82.12.82.12.83.12.83.12.83.12.83.13.13.13.13.13.13.13.13.13.13.13.13.13	2.4.5.5.5 5.4.5.6.4.5	13.4 10.8 11.8 11.8	Acock's Green	14.5
Sparkhill	17.6 13.0 14.5 19.3	19.3 17.1 16.2 17.1	17.1 16.2 17.7 16.7	13.2	Zurdley	15.0
Acock's Green	22.7 19.7 18.7 24.4 20.7	21.0 18.0 17.0 16.7 16.7	14.3 18.8 18.8 20.0 21.1	18.7 17.8 14.9 16.6	Steehford	19.8
Yardley	19.9 18.8 18.8 18.0 19.9	20.5 18.9 17.4 15.0 16.3	6.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56.45.5 66.02	Bromford	6.3
Erdington South	15.9 19.8 19.8 19.0 19.0	20.05 15.7 16.8 16.8 17.7 17.7	4400000 00000-0	0.00.04 0.00.04	Gravelly Hill	3.61
Erdington North	19.41 16.21 17.21 18.51	21.12 20.71 18.11 17.11 19.51	20.31 20.31 18.51 18.61 19.91	4.3.8.6	notgnibril	11.91
Репу Выт	~~~~~	000000	8.41 16.81 27.71	27.51 22.22 23.81 27.11	Бепу Вап	23.41
Handsworth	18.0 15.0 14.4 16.0 17.0	V.4018000	11.0	12.63 10.42 11.02 11.02	Напазмойћ	61.00
IlswbasZ	0000000	6.41 2.711 4.41	@ 61 10 Q 10 10 M	10.11 10.21 10.21 11.41	Hawbas	10.8
oqog	9.319 4.712 7.314 7.716	-10-0A	3.112 3.112 8.10 8.10 8.10 8.10	10.71	oqog	1.51
SaiM elibbild	9.314 9.314 9.314 1.717	3.020 3.020 3.020 3.2215 5.916 7.916	6.513 6.513 6.313 6.313	33.13	SaiM olibild	3.61
All Saints'	3.6622 2.419 3.320 3.320 5.121	8.620 8.620 8.620 8.618 9.618	40004=	+980K	'stoieS IIA	10.00
Rotton Park	3.8.26 .0.22 .0.23 .0.23		0.019 0.019		Hotton Park	414.
Edgbaston	8.821 8.821 8.830 8.830 8.830	319 319 319 619 619		716 .613 .014	Edgbaston	.615
Halsall Heath		613.613 413.012 512 513	0.050.00	4.018.00 8.00 8.00 8.00	Halsall Heath	5.00
Sparkbrook	2000 2000 2000 2000 2000 2000 2000 200	8222 94.95 12.22 12.22 14.05 15.05 1	316 316 316 316 316 316 316	48888		.213
	823 9 19 19 25 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	523 320 518 518 616 616	8 6 9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8	31777	Sparkbrook	916
Small Heath	219 219 317 820	920 618 615 7114 7114	87744 4	40000	Small Heath	713
Heath	22.88 20.00	23.823.9 21.920.6 22.121.6 20.618.4 19.719.7	819.8 517.7 517.7 617.4 4.7 7.4 4.4 7.4	41222 6	Sahley	813
boowdeaW	823 90 4 3 2 8	D = = = 10.00	3 17.	214. 2013. 214.	boowdesW	912.
noteA	625.24 623.24 625.24 625.24	8828. 3828. 744. 7233. 7233.	620. 1119. 317. 418.	317. 115. 716.	Aston	816.
Lozella	80.00 80 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8	200 3 8 8 7 1 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7116. 7116. 7116. 7116.	0.02213.	sllaso.I	.017.
Central	827. 827. 627. 627.	8831. 8826. 224. 224.	25 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3	58 18.0 58 18.0 59 18.0	Central Wards	4 60 8 80
Ladywood	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	825. 725. 522. 925.	619. 619.	617. 519. 716.	Ladywood	5 16.
Market Hall	22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	828. 620. 020. 619.	818. 0 19. 18. 17. 18.	017. 016. 016.	Market Hall	314.
St. Martin's	934 934 934 934 934	330.8 528.0 027.0 824.1 327.0	8823 822 822 822 822 822 822 822 822 822	40.00.00	St. Martin's	8 18
St. Bartholomew's	329.00 635.90 635.90	932.3 528.6 529.0 026.8	8824 1233 1233 1233 1333 1333 1333 1333 13	20. 17. 17.	St. Bartholomews'	.019.
Duddeston and Nechells	5 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	8822228	######################################	.220.5 621.5 318.1 219.8	Duddeston ellodeston	88
St. Mary's	8328288	835.7 730.8 230.3 528.3 230.6	4.27.8 0.27.3 8.25.8 5.25.3 2.6 .4	22222	St. Mary's	18.5
St. Paul's	28.9 24.7 29.1 29.1	E88888	222222	21.4 18.9 18.5 20.1	s'lus'd .48	18.4
OLD WARDS	1916 1917 1918 1919 1920 Average	1921 1922 1923 1924 1925 Average	1926 1927 1928 1929 1930 Average	1931 1932 1933 1934 Average	New Wards	1935 1936

BIRTH-RATES IN WARDS.

TABLE VI.

NOTE.—Figures for individual Wards for 1935 and 1936 cannot be compared with those for preceding years, owing to many alterations in the boundaries of the Wards in November, 1934. The averages for the Groups of Wards (Central, Middle Ring, Outer Ring, Day, however, be considered as roughly comparable.

TABLE VII.

Cases of Infectious Disease notified during the Year 1936. Classified according to sex and ages.

	TOTALS.	1, 195 1, 195	10,007
	dn.		100 10
	75		
	-69	112112444	202
	-55-	1-84-1288811 20000 1144-1111	420
	45-	133 133 133 133 133 133 133 133 133 133	286
	35-		585
	25-	4-28 128 8 21 28 8 1 8 2 2 2 2 2 2 2 2 2	827
AGES.	-02	1 4 2 3 6 4 1 1 2 1 2 1 2 6 8 8 1 9 2 3 3 6 6 8 8 1 9 2 3 3 6 6 7 8 8 1 9 2 3 3 6 6 7 8 8 1 9 2 3 3 6 6 7 8 8 1 9 2 3 3 6 6 7 8 8 1 9 2 3 3 6 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 7 8 8 8 8 7 8	268
	15-	1 1 1 1 1 1 1 1 1 1	652
	-01	1388.088 088 088 088 088 088 088 088 088 0	1,153
	5-	88132-3 11118813-3 111118813-3	2,472
	2-	123,50,03,00,00,00,00,00,00,00,00,00,00,00,00	1,157
	1	200772	273
	-0	1 1 1 1 1 1 1 1 1	1,012
	Sex.	**************************************	
	9-11		1
		osis	1
	DISEASE.		1
1	DIS	ric Fever	Тотац —
		Enteric Fever	T
		Enter Scarle Dipht Erysi Pulme Tuber Inber Cerebi Pneur Puerp Puerp	

Smallpox-0; Malaria-6 Males, 0 Females; Dysentery-8 Males, 14 Females; Poliomyelitis-4 Males, 7 Females; Polio-encephalitis-1 Male, 0 Female; Continued Fever-0.

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TABLE VIII.

Cases of Infectious Disease notified during the Year 1936. Classifie

36. Classified according to Wards.

	173	
CHA	28 1142 1142 1142 1143 1143 1143 1143 1143 1143 1143 1168	10,047
batacool foN	111110000-1-1-1-1-1-1-1-00-	384 10
Yardley	1234411111 2 1 1 2 2 2 2 1 1 1 2 2 2 2 2 2	256 3
Washwood Heath	172 86 1 1 2 1 173 153 171 1	239 2
Stechford	110110000001 0 10 110110000	286 2
Sparkhill		224 2
Брагк Бгоож		306 2
opos	111118881111111	156 3
Small Heath	1111128-1261 - 18 - 18 196-174	256 1
Selly Oak	00-13 15-1 1 1 1 1 1 1 1 1 1	93,633
Sandwell	-	107 187
Saltley	- 20 280 4 01 5 08	215
St. Paul's	11111281221 1 2 1001172148	325
St. Mary's	11-11882221 1 99 1827	407
St. Martin's	61	461
St. Bartholomew's	1	327
Rotton Park	1111184 1350 0 1 1 1500 5	0.000
Perry Barr	8 5 7 7 7 8 8 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9	366 529 254
Northfield	5 5 5 3 3 4 1 1 1 5 1 3 1 1 1 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3	
Moseley and King's Heath	-	198
Market Hall	1111222282 2 1 1 1 1 1 1 8 8 23	239
Lozella	1	262
Ladywood		284
king's Norton	-	1111143
Harborne		
Handsworth	1625711111111111111111111111111111111111	3 173
Hall Green	8	228 358
Gravelly Hill	9	228
Erdington	21	569
Edgbaston	9	540 182
Duddeston and Nechells	11-11889-1842 1	
Bromford	11-11882-32- 21- 1 1888.87	276 311
Baball Heath	01	
Aston.	11 1 1 2 8 4 8 8 8 8 1 1 1 1 1 1	304401
All Saints'	-111188818181 2 1 1 - 2 3 2 2 2 2 3	
Acock's Green.	8 4 8 - 8 4 4 -	483
	orum	:
	Enteric Fever	:
Disease.	Enteric Fever Continued Fever Smalaria Smallpox Diphtheria Diphtheria Diphtheria Diphtheria Diphtheria Diphtheria Diphtheria Disentery Erysipelas Fuberculosis of Peneum and Intest neum	TOTAL
Dis	alaria rench Fey alaria rench Fey andl pox andl pox andlet Fey iphtheria ysentery ysentery ysentery yspelas illuserculos uberculos uberculos uberculos uberculos column un eum an uberculos column uberculos olicumo incephalit rerbro-Sp olicumo incephalit necphalit necph	Tol
	Enteric Fever	

						Outer Ring	7.0
						Harborne	30.30
3 4				174		Northfield	.570
3aiH 1	Oute	2.20 2.33 2.33 2.14 2.14	23 25 27 25 25 25 25 25 25 25 25 25 25 25 25 25	0.98 0.98 0.89 0.89	0.98 0.98 0.98	nortoN s'gniM	.420.930.930
enio	Harb	.85 .85 .85 .85 .86	853 81 81 81 81 81	.810 .961 .961	82 62 62 73 66	Selly Oak	930
bleid	Nort	882 882 90 10 10 10 10	831 222 1138 1470 1470	380 380 380 380 380	200. 150. 150. 100.	King's Heath	420
norton s'	SuiM	141 .971 .353 .661 .652	98 98 11 98	.832 .001 .561 .580 .580	561 731 691 691	Sparkhill Moseley and	640
JeO.	репу	272 791 531 431 431	250 250		.740.870. 661.090. 651.130. 671.040.		.070.850.540.860.770.640
dtsoH's'	Ming	2882228 8		671. 711. 600. 581.	740. 661. 631. 671.	Hall Green	880.
pue Asp		811. 811. 811. 831. 631.	051. 880. 571. 251. 340.		940. 850. 680 .	Acock's Green	50.6
	Green	4 13 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	201.8 351.8 341.3 281.6	.881.020 .530.910 .730.930 .000.780 .170.800	930.8 930.8	Yardley	50.5
	Acoc	010000000		780.8 870.5 250.7 471.0 1191.1	781.1 110.8 090.9 010.8	Steehford	8.07
lley.	Yard	010101-0101				Bromford	0.00
notgu	Erdin	2.17 2.36 2.36 2.19 2.19			.291.150 .950.801 .850.951	Gravelly Hill	0.85
ngton	Erdi	22.25 22.25 2.14 2.14 41.41	1.441 1.711 1.521 0.921 1.490	0.951. 0.630. 1.090. 1.241.	0.950 0.950 0.850 0.850	Erdington	0.82
y Barr	Perr	~~~~~	~~~~~	0.0000	1.301. 0.820. 1.180. 1.021.	beny Barr	.440.850.740.820.851
dsworth	Han	868.888 89.888	31.09	97 97 97 97 97 97	233378	Handsworth	.85
llewil	pues	98.35 98 98.35 98.35 98.35 98.35 98.35 98.35 98.35 98.35 98.	.082 .621 .611 .971	961 970 971	820 870 861 98 1	Sandwell	.440
17	Soho	862 172 381 551 811	541 150 190 330	640 231 921 060	190. 020. 191. 570.	oqog	.470
BuiM ell		8672276	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2 8 8 2 7 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25282 161282 161282	Middle Ring	196
		48892.3.3.	8811. 6601. 6821.	131. 351. 561. 561.	311. 311. 541.		320.
'atniné		053. 623. 043. 022. 983.	332. 881. 281. 9621.	2331. 2341. 4301.	382. 431. 041. 301.	'stnis IIA	.151.
ark no:		814.0 163.6 814.0 2224.0 303.9	282 2112 402 012 202 202 202 202	971. 021. 921. 751. 861.		Rotton Park	.481.1
notend	Edgi	152.1 122.1 122.1 792.2 962.3	001.2 221.4 091.0 01.2	850.9 531.0 100.9 270.7 530.6	00-00	Edgbaston	.430.4
all Heath	speg	0000000	01010101-01			Balsall Heath	
мостам	reds	8.55.56 8.62 8.62 8.62 8.62 8.62	1.32 1.09 1.09 1.09	1.12 1.14 1.17 1.17	1.135	Sparkbrook	1.18
Il Heath	lem2	8 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.582 1.691 1.541 1.541 1.541 1.441	.300.831. .450.951. .981.121. .970.921. .931.150.	1.48 1.03 1.12 1.15	Small Heath	0.75
(c).	thes	22.29 22.29 22.29 22.48	174 171 171 184 184 184	1.300 0.981 0.931	1.20 1.33 0.98 1.23 1.181	Saltley	0.78
poomu	Masi	9.30.72.29	2.11 1.81 1.79 1.38 1.37 1.79		1111.1111.1111.11111.111111111111111111	Washwood	.370.961.010.860.780.751
u	Asto	53 09 25 95 95	.65 .95 .95 .05	.981 .821 .920 .891	.591 .671 .671 .981	noteA	.916.
elle	POT	873 473 303 303 562 273	39951 39951 39951 39951		.551 .191 .561 .340	Lozella	.961
sbraW leri	Cent	8 9 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8827088	07 115 115 115 115 115 115 115 115 115 11		Central Wards	370
poomA		30 112 125 125 125 125 125 125 125 125 125	2010 100 100 100 100 100 100 100 100 100	788922 7904 7904 7904 7904 7904 7904 7904 7904	211. 711. 791.	Padywood	
		334 134 666 624 624 624	331 331 331 331 331 331	1.461. 1.901. 1.551. 1.552.	261 452 541 731 741	Market-Hall	1.540.821.161
ket Hall		664. 325. 325. 7845. 7845.3	6412222 64122222	2411 2411 5211 2011	. 942.26 . 541.45 . 591.54 . 191.73	St. Martin's	540.
s'nitrele		865 3324. 2335 44. 44.	513. 513. 513. 44 443.	250222 20222 20222	.681. 741. 811. 502.		.661.
s,wamojou	St. Bart	0.0.4.4. 10	लं लं लं लं ल			St. Bartholomews'	
deston Nechells		6.64 4.34 4.13 4.09	2 2 2 3 3 4 1 8 2 2 3 8 4 1 8 8 1 2 3 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	502.21 872.14 522.28 902.45 661.74	492.38 762.97 862.21 791.73	Duddeston and Nechells	1.721.65
s,Arep	SF 7	5.116.756.65.265.674.55 5.464.424.3 4.304.944.11 3.634.914.00	3.49 3.20 3.02 3.02 3.02 3.04		2.49 1.76 1.79 1.97	St Mary's	1.72
s,Int	d 4s	2.36 2.36 3.30 3.63	2.233. 2.233. 2.1533. 2.2 42.	82.2.2.2.2 8.0.00 8.000	1.712. 1.691. 1.361.8	St. Paul's	1.071
				THE REAL PROPERTY.	1111111		4
гаял У а	10	1916 1917 1918 1919 1920 Average	1921 1922 1923 1924 1925 Average	1926 1927 1928 1929 1930 Average	1931 1932 1933 1934 Average	SGRAW WAN	1935
		Ave	Ave	Ave	Ave	4	

NOTE.—Figures for individual Wards for 1935 and 1936 cannot be compared with those for preceding years, owing to many alterations in the boundaries of the Wards in November, 1934. The averages for the Groups of Wards (Central, Middle Ring, Outer Ring) may, however, be considered as roughly comparable.

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Outer Ring

TABLE X.

Meteorology and Mortality in each week of the year 1936.

Week. Deaths from Temperature													100			
No.	Ending.	Total Deaths.	Deaths under 1 year.	Measles.	Whooping Cough.	Diarrhoea and Enteritis under 2.	Pulmonary Tuberculosis.	Other Forms of Tuberculosis.	Respiratory Diseases.	Highest in Shade.	Lowest in Shade.	and	Highest 4 feet Deep.	Horizontal Move- ment of Air in Miles.	Hours of Sunshine	Rainfall in Inches
1 2 3 4	Jan. 4 ,, 11 ,, 18 ,, 25	295 300 293 302	24 21 22 22	1111	2 2 1 4	1 2 2 2	10 10 16 20	3 2 1 2	51 50 45 44	50 54 40 45	30 37 25 24	41.8 43.4 31.6 35.0	45.4 45.5 45.5 44.5	1502 2498 1286 1931	9.2 6.6 12.3 7.1	0.68 1.07 0.15 0.72
5 6 7 8 9	Feb. 1 8 15 22 29	363 295 274 328 307	35 26 35 31 30	11111	3 5 4 3 5	2 3 5 2	24 10 21 18 19	2 1 2 1 1	58 49 51 50 40	48 43 43 51 45	36 25 24 29 30	42.4 34.4 32.4 39.9 36.6	44.1 44.3 43.6 42.8 42.8	1632 1791 2100 1741 1589	8.0 27.5 23.8 15.1 10.4	1.48 0.07
10 11 12 13	Mar. 7 ,, 14 ,, 21 ,, 28	285 258 246 259	31 34 28 24	2 - 1 3	1 5 6 4	6 3 1 1	20 7 18 15	3 2 4 —	35 46 35 27	47 51 61 58	30 33 34 40	37.9 40.8 46.1 48.6	42.6 43.2 43.5 44.7	1814 1368 1224 1822	13.7 0.4 11.7 13.4	0.37 0.20 0.04 1.36
14 15 16 17	April 4 ,, 11 ,, 18 ,, 25	211 224 251 252	16 15 22 26	- 4 1	3 1 4 5	4 - 1 1	12 18 20 16	1 3 1	28 22 26 26	59 52 54 60	35 33 31 31	47.1 41.7 39.1 43.3	45.6 45.6 44.8 44.2	2171 1728 1641 1728	10.6 24.3 29.9 39.6	0.92 0.05 0.39 0.97
18 19 20 21 22	May 2 ,, 9 ,, 16 ,, 23 ,, 30	245 225 209 177 230	25 23 17 15 24	3 1 -3	4 2 1 3 4	2 1 1 1 2	15 13 14 13 13	1 2 - 1 2	32 27 31 17 13	60 63 74 74 66	38 39 45 37 40	49.0 49.9 56.2 52.2 50.7	45.3 46.1 47.2 48.3 48.4	1345 1713 986 1882 1489	60.2 6.3 30.7 48.7 20.1	0.18 0.40 0.24 0.15
23 24 25 26	June 6 ,, 13 ,, 20 ,, 27	185 188 173 186	16 19 12 14	1 1 1 1	3 3 2 2	- 1 -	15 22 13 21	_ 2 1 —	12 15 16 11	62 71 80 82	36 46 46 55	47.6 56.5 59.9 64.5	48.2 49.0 49.9 51.9	1456 1067 1577 781	17.8 35.5 45.2 40.6	0.84 0.80 0.48 0.95
27 28 29 30	July 4 ,, 11 ,, 18 ,, 25	182 166 196 197	26 9 22 18	4 2 1 1	2 4 2 4	4 - 3 2	23 7 14 9	2 3 3 2	8 9 8 12	69 72 69 66	53 50 51 50	60.7 58.5 59.0 58.4	52.5 53.0 53.0 53.0	983 1142 1874 1821	22.1 22.8 24.3 31.3	1.66 2.42 1.30 0.99
31 32 33 34 35	Aug. 1 ,, 8 ,, 15 ,, 22 ,, 29	181 190 155 139 180	11 13 11 9 19	- - 1	$\frac{1}{3}$ $\frac{1}{2}$	$\frac{2}{\frac{1}{1}}$	8 9 11 11 5	1 3 -	10 11 7 8 8	69 71 73 75 80	47 50 51 52 47	57.9 59.5 61.5 61.6 63.2	53.2 53.3 53.7 54.3 54.9	1346 1680 917 1147 1029	29.4 36.0 28.0 35.6 70.9	0.50 0.24 0.48 0.07
36 37 38 39	Sept 5 ,, 12 ,, 19 ,, 26	170 182 172 176	12 23 20 12	===	2 3 1	2 1 2 3	13 16 8 18	2 2 - 1	9 9 9 6	72 70 69 69	54 50 50 47	62.0 59.0 58.7 58.9	55.4 55.4 55.0 54.8	1349 1661 1302 1204	11.4 12.3 26.4 14.6	0.72 1.17 0.64 0.39
40 41 42 43 44	Oct. 3 ,, 10 ,, 17 ,, 24 ,, 31	190 206 212 219 181	14 16 14 19 11		1	2 - 1 5 3	3 12 11 5 11	2 4 1	14 12 18 24 16	56 61 62 62 63	39 37 41 41 37	49.7 47.2 51.8 50.4 46.9	54.8 53.7 52.5 52.0 51.8	1218 1219 1840 2102 2390	25.0 30.3 16.5 21.4 13.6	0.05 0.07 0.12 0.63 0.77
45 46 47 48	Nov. 7 ,, 14 ,, 21 ,, 28	201 216 207 234	15 16 21 19	3 -	===	3 1 1 3	16 11 10 17	- - 1	20 19 17 17	51 52 56 42	37 34 33 28	45.4 43.6 43.7 35.0	51.0 50.4 49.5 49.0	1540 2037 1704 545	12.9 13.5 11.7	0.70 1.36 0.72 0.10
49 50 51 52	Dec. 5 ,, 12 ,, 19 ,, 26	219 245 247 208	13 20 19 12	1 - -	===	1 1 -	14 16 13 9	3 3 1 2	16 28 33 29	53 45 55 50	32 26 30 34	44.4 33.2 43.0 43.6	47.7 47.5 46.3 46.6	2519 1485 2824 1860	14.3 6.5 16.9 8.4	0.35 0.35 1.64 0.06
53	1937 Jan. 2	288	20	-	1	2	10		52	51	30	41.2	46.6	2109	6.4	0.59

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