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BOROUGH OF ACTON



ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

TOGETHER WITH THE

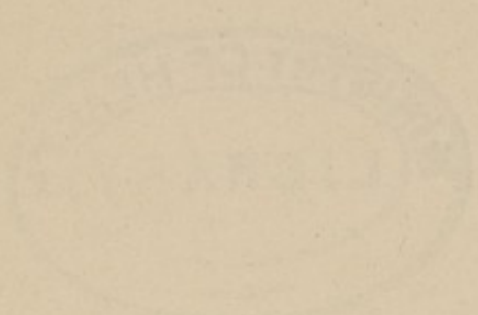
REPORT ON THE MEDICAL
INSPECTION OF SCHOOLS

FOR THE YEAR 1951

1911

REPORT OF THE

COMMISSIONER OF HEALTH



ANNUAL REPORT

MEDICAL OFFICER OF HEALTH

REPORT ON THE MEDICAL
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FOR THE YEAR 1911

BOROUGH OF ACTON ANNUAL REPORT



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BOROUGH OF ACTON



ANNUAL REPORT

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MEDICAL OFFICER OF HEALTH

TOGETHER WITH THE

REPORT ON THE MEDICAL

INSPECTION OF SCHOOLS

FOR THE YEAR 1921

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1951

PUBLIC HEALTH DEPARTMENT,
TOWN HALL,
ACTON, W.3.

*To the Mayor, Aldermen and Councillors
of the Borough of Acton.*

LADIES AND GENTLEMEN,

I submit the Annual Report of the health of the Borough of Acton for the year 1951.

During this year the fifteenth Census was taken and it is interesting to compare some of the population figures, published in the preliminary report, with those of the previous census of 1931.

The population of the Borough of Acton in 1931 was 70,008 persons, and in 1951 it was 67,424 persons, a decrease of 3.7% or 2,534 persons.

Set out below are some population statistics of particular interest with the percentage increase or decrease of the population in 1931.

England & Wales	.....	43,744,924 persons	+	9.49%
County of London	.....	3,348,336	..	- 23.8%
Greater London (roughly the Met. Police Area)		8,346,137	..	+ 1.6%
County of Middlesex	.....	2,268,776	..	+ 38.4%

The populations of some of the outlying districts of Middlesex have increased amazingly, *e.g.* Harrow—127.1%; Ruislip-Northwood 325.8%.

As a rule the Census is taken at the end of the first quarter. If it was taken later, summer holiday resorts would show excessive populations. This year the Census was taken on the 8th April and it is upon this figure that the Registrar General estimates the mid-year population. One should note that this year's estimate is 67,540 persons. Of this number 5,272 are children of 0-4 years, and 7,327 are children of 5-14 years.

The report reveals that, since the beginning of the century, the percentage of all men over 65 has increased from 6.6 to 9.3, and the percentage of women in that age group has risen from 8.3 to 12.3, whereas the percentage of adult males (15-34 years) has declined from 33.8 to 27.9, the percentage of women in the same age group has fallen from 33.0 to 26.9 due to the fall in the birthrate.

The most difficult aspect of an ageing population—and this has been known for some time—is the welfare of old people. Old persons who are able to walk and be active are well catered for, but there is another group who have reached a further stage at which they are unable to care for themselves and have no relations to help them. These do not necessarily need hospital care, but do need someone at the back of them to keep them clean and tidy, and save them from losing interest in themselves. All old persons like to feel the rooms they occupy are their homes, however limited is their physical ability to maintain their surroundings in a tidy state. For this group of old people an almshouse type of building is needed, where each person has a bed-sitting-room with means of making hot drinks and storing food, but where there is also a common dining-room where one or two meals could be provided for them. There should also be a resident nurse who is responsible for the old persons' welfare, and who can supervise the cleanliness of persons and rooms. Such a type of establishment would, I believe, help many lonely old persons to live out the twilight of their lives contentedly.

The figures for immunisation against diphtheria are set out in the body of the report, as also are the School Health Services returns for the Borough.

I should like to take this opportunity of expressing to the staff of the Public Health Department my appreciation for their co-operation and loyalty throughout the year.

I remain,

Your obedient Servant,

GEORGE E. B. PAYNE

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STAFF

GEORGE E. B. PAYNE, M.D., B.S., M.R.C.S., L.R.C.P., D.P.H., Medical Officer of Health and School Medical Officer.

* MARGARET HELLER, M.D. (Vienna) L.R.C.P., M.R.C.S., D.C.H., (Edinburgh), Deputy Medical Officer of Health.

MARGARET F. FRY, M.B., B.Ch., D.C.H., Deputy Medical Officer of Health. (Appointed—November, 1951).

J. J. MATTHEWS, M.R.SAN.I., Cert. of Royal Sanitary Institute, holds Meat and Smoke Certificates; Chief Sanitary Inspector (Inspector under Diseases of Animals Acts, Rag Flock Act, and Fabrics Misdescription Act).

M. DOWIE, Cert. of Royal Sanitary Institute, holds Meat and Smoke Certificates; Deputy Chief Sanitary Inspector.

A. W. BUCHAN, Cert., of Royal Sanitary Institute; Sanitary Inspector.

G. W. BURDEN Cert. of Royal Sanitary Institute, holds Meat Certificate; Sanitary Inspector.

C. CODRINGTON, Cert. of Royal Sanitary Institute, holds Meat Certificate; Temporary Sanitary Inspector.

W. G. COLLAM, Cert. of Royal Sanitary Institute, holds Meat Certificate, Sanitary Inspector.

A. C. JENKINS, Cert. of Royal Sanitary Institute, holds Meat Certificate, Sanitary Inspector.

D. A. PARKER, Cert. of Royal Sanitary Institute; Sanitary Inspector.

D. G. PATERSON, M.R.SAN.I., Cert. of Royal Sanitary Institute, holds Meat and Smoke Certificates, Sanitary Inspector.

E. J. WEBBER, Cert. of Royal Sanitary Institute; Sanitary Inspector.

J. P. SMITH, Pupil Sanitary Inspector.

‡ A. S. M. PRATT, Barrister-at-Law, Chief Clerk.

J. BURROWS,	Senior Clerk.
MRS. D. ARMSTRONG,	Clerk Typist.
MISS V. L. BETTS,	Clerk Typist.
MISS G. D. HOWES,	Clerk Typist.
MISS L. TAYLOR,	Clerk Typist.

* On leave to World Health Organisation from November, 1951.

‡ Transferred to Middlesex County Council under the National Health Service Act, 1946. Part-time officer to the Acton Town Council.

SECTION A

STATISTICS

GENERAL STATISTICS

Area (acres)	.....	.....	.....	.....	.....	2,317
Population: Census, 1931	.....	.....	.....	.....	.....	70,008
		1951	.....	.....	.....	67,424
Registrar General's Estimate Mid. 1951:						
Home Population	.....	.....	.....	.....	.....	67,540
Rateable Value at 31st March, 1951	.....	.....	.....	.....	.....	£855,737
Product of a penny rate for year ending 31st March, 1951						£3,499
General Rate in the £ at 31st March, 1951	.....	.....	.....	.....	.....	17/2

VITAL STATISTICS

(Comparable figures for 1950 in brackets)

Live Births:

	TOTAL		MALES		FEMALES	
Legitimate	950	(947)	502	(475)	448	(472)
Illegitimate	59	(50)	27	(29)	32	(21)
Totals	1,009	(997)	539	(504)	480	(493)

Birth rate per 1,000 estimated population is 14.7 (14.6).

Still Births:

	TOTAL	MALES	FEMALES
Legitimate	30 (27)	17 (17)	13 (10)
Illegitimate	— (2)	— (2)	— (—)
Totals	30 (29)	17 (19)	13 (10)

Deaths:

* 766 (782).

Death rate per 1,000 inhabitants 11.4 (11.3).

Corrected death rate 11.4 (11.4).

Deaths from Puerperal Causes (Registrar General's short list for England and Wales, Headings 29 and 30):

	Deaths	Rate per 1,000 Live & Still Births
No. 29 Puerperal Sepsis	— (—)	— (—)
No. 30 Other Puerperal Causes	— (—)	— (—)

Death Rate of Infants under 1 year of age:

All infants per 1,000 live births (E. & W.—29.6)	23.7 (25.1)
Legitimate infants per 1,000 live births	..... 25.2 (24.1)
Illegitimate infants per 1,000 live births — (—)

Deaths:

Deaths from Cancer (all ages)	.....	.....	144 (141)
Deaths from Measles (all ages)	.....	.....	— (—)
Deaths from Whooping Cough (all ages)	.....	.....	— (—)
Deaths from Diphtheria (all ages)	.....	.....	— (—)
Deaths from Gastro-Enteritis (under 2 years of age)	.....	.....	2 (2)
Death rate from Gastro-Enteritis (under 2 years of age) per 1,000 live births	.....	.....	2.0 (2.0)

AGES AT DEATH AND WARD DISTRIBUTION OF DEATHS IN 1951

CAUSES OF DEATH	Total	Under 1 year	1-2	2-5	5-15	15-25	25-45	45-65	65+	WARD DISTRIBUTION.							
										N.E.	N.W.	C.	S.E.	S.W.	S.	W.	E.
Bronchitis	48	—	—	—	—	—	—	10	38	5	5	6	7	5	8	6	6
Cancer	144	—	—	—	—	—	16	59	69	14	15	16	18	23	14	24	20
Cerebral Haemorrhage & Thrombosis	83	—	—	—	—	—	—	10	73	13	12	9	5	15	11	11	7
Circulatory Disease	163	—	—	—	—	—	4	46	113	13	22	14	22	25	26	22	19
Congenital Disease—Prematurity	23	21	2	—	—	—	—	—	—	5	4	7	2	1	2	1	1
Diabetes	2	—	—	—	—	—	—	—	2	—	1	—	—	—	—	1	—
Digestive Tract Disease	14	—	—	—	—	—	1	4	9	1	—	—	2	3	3	3	2
Gastro-Enteritis	2	2	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—
Heart Disease	65	—	—	—	1	1	3	19	41	9	10	8	8	6	3	13	8
Influenza	4	—	—	—	—	—	—	—	4	1	1	—	—	—	2	—	—
Leukaemia & Blood Disease	13	—	—	—	—	—	3	5	5	2	1	2	2	—	3	1	2
Liver Disease	2	—	—	—	—	—	—	1	1	—	—	—	—	—	—	1	1
Nervous Diseases	3	—	—	—	—	—	1	1	1	—	—	—	—	1	1	1	—
Nephritis	18	—	—	—	—	—	4	5	9	3	2	3	2	4	2	2	—
Peptic Ulcer	12	—	—	—	—	1	—	2	9	2	2	3	—	1	1	2	1
Pneumonia	45	1	—	1	1	2	1	10	29	1	7	6	5	8	5	9	4
Prostatic Enlargement	12	—	—	—	—	—	1	1	10	—	2	—	1	2	2	2	3
<i>Carried forward</i>	653	24	2	1	2	4	34	173	413	71	84	74	74	94	83	99	74

AGES AT DEATH AND WARD DISTRIBUTION OF DEATHS IN 1951—*contd.*

CAUSES OF DEATH	Total	Under 1 year	AGES AT DEATH							WARD DISTRIBUTION.							
			1-2	2-5	5-15	15-25	25-45	45-65	65+	N.E.	N.W.	C.	S.E.	S.W.	S.	W.	E.
<i>Brought forward</i>	653	24	2	1	2	4	34	173	413	71	84	74	74	94	83	99	74
Pulmonary Tuberculosis	26	—	1	—	—	3	8	11	3	1	4	1	5	3	3	3	6
Other forms of Tuberculosis	2	—	—	—	—	—	1	1	—	—	—	1	—	—	—	—	1
Other Respiratory Diseases	13	—	1	—	—	—	—	3	9	3	1	2	—	2	1	—	4
Rheumatism	3	—	—	—	—	—	—	3	—	2	1	—	—	—	—	—	—
Senility	38	—	—	—	—	—	—	—	38	4	3	5	5	8	2	8	3
Suicide	1	—	—	—	—	—	—	—	1	—	—	1	—	—	—	—	—
Violent Deaths in Road Accidents	30	—	—	2	1	2	3	8	14	3	2	6	3	4	3	8	1
TOTALS	766	24	4	3	3	9	46	199	478	84	95	90	87	111	92	118	89

Cause of Death in Children under one year

15 MALES

9 FEMALES

Disease	Under 1 wk.	1—2 wks.	2—3 wks.	3—4 wks.	Total under 1 month.	1—3 mths.	3—6 mths.	6—9 mths.	9—12 mths.	Total 1—12 m'ths.
Prematurity	11	—	—	—	11	2	—	1	—	3
Atelectasis	1	—	—	—	1	—	—	—	—	—
Congenital Defects	2	2	1	—	5	1	—	—	—	1
Pneumonia	—	—	—	—	—	—	—	—	1	1
Gastro-Enteritis	—	—	—	—	—	—	1	—	1	2
TOTALS	14	2	1	—	17	3	1	1	2	7

Comparative figures of Infant Mortality in last Seven Years.

Year	Acton	England & Wales
1945	40.4	46
1946	27.9	46
1947	33.8	41
1948	24.4	41
1949	24.0	32
1950	25.1	30
1951	23.7	30

MATERNAL MORTALITY

There were no maternal deaths during the year.

INQUESTS

Asphyxia	.....	.....	.....	.....	.....	1
Drowning	.....	.....	.....	.....	.....	2
Poisoning due to drugs	.....	.....	.....	.....	.....	4
Coal gas poisoning	.....	.....	.....	.....	.....	6
Heart Disease	.....	.....	.....	.....	.....	1
Falls at home	.....	.....	.....	.....	.....	8
Road Accidents	.....	.....	.....	.....	.....	9
Other causes	.....	.....	.....	.....	.....	2
						—
					TOTAL	33
						—

POST MORTEMS, WITHOUT INQUEST

Respiratory causes	.....	.....	.....	.....	.....	21
Heart Disease	.....	.....	.....	.....	.....	5
Circulatory causes	.....	.....	.....	.....	.....	51
Cerebral Thrombosis	.....	.....	.....	.....	.....	9
Cancer	.....	.....	.....	.....	.....	7
Intestinal Causes	.....	.....	.....	.....	.....	7
Other Causes	.....	.....	.....	.....	.....	7
						—
					TOTAL	107
						—

SECTION BGENERAL PROVISION OF HEALTH SERVICES
IN THE AREA

LABORATORY FACILITIES

These continue as in previous years. The Ministry of Health Emergency Medical Service provides a Pathological Service at the King Edward VII Memorial Hospital Laboratory at Ealing.

The following Table gives the types, and number, of specimens submitted for examination.

<i>Type</i>	<i>No of specimens examined</i>
Throat and Nose Swabs	214
Ear Swabs	6
Sputum for T.B.	6
Faeces	744
Hair, Widals, etc.	15
Methylene Blue Reductase Tests on Milk and Ice-Cream	323

HOSPITAL PROVISION

The Regional Hospital Board of the N.W. Metropolitan Area, which includes Acton, is responsible for hospital treatment of the sick. The most difficult cases for which to obtain treatment are old persons or chronic sick who become acutely ill or who are in the terminal stage of their illness. These types of cases need continuous care and treatment, and these cannot be given in the home.

NATIONAL ASSISTANCE ACT, 1948

No cases have been dealt with under Section 47 of the National Assistance Act, 1948, but in those cases which have come to our notice it has been possible, by co-operating with the local hospital, to arrange for these persons to be admitted.

The Borough of Acton carried out its obligations under Section 50 of this act.

MASS X-RAY

The North West Metropolitan Regional Hospital Board Mass X-ray Unit visited Acton from the 30th July to 19th October, 1951. This period was interrupted by one or two short visits elsewhere.

X-ray examinations were confined to:

- (i) people under 35 years of age.
- (ii) people over 35 years of age not previously X-rayed.

The facilities of the Unit were not available to children under 14 years of age.

Most of the period was given to group appointments from factories and other establishments, but on three days open sessions were held for the public to attend without an appointment.

I am indebted to the Physician in Charge of the Mass X-ray Unit for the following particulars of the persons who attended for examination. The statistics given do not necessarily relate only to persons residing in Acton, as the facilities were available to all, whether they resided in the Borough or not.

Number of persons examined:

Males	.....	.....	.....	.....	.....	6,749
Females	.....	.....	.....	.....	.....	3,595
						<hr/>
						10,344
Recalled for large films	.....	.....	.....	.....	.....	351

Disposal of large film cases:

(a) No further action	.....	.....	.....	.....	.....	237
(b) To return to Unit for further X-ray	.....	.....	.....	.....	.....	19
(c) Further investigation required (this does not necessarily indicate tuberculosis)	.....	.....	.....	.....	.....	78
(d) Known cases had or having treatment	.....	.....	.....	.....	.....	6
(e) Failed to return for large films	.....	.....	.....	.....	.....	11

SECTION C

HEALTH SERVICES PROVIDED BY MIDDLESEX COUNTY COUNCIL

AMBULANCE FACILITIES

The Middlesex County Council are responsible for this service.

NURSING IN THE HOME

This service is administered locally by the Middlesex County Council.

The number of sick persons under care in Acton during the year was 1,153 necessitating 21,979 visits.

MATERNITY AND CHILD WELFARE

The new Child Welfare Clinic at Trinity Way, East Acton, was opened on the 30th July, 1951, and took the place of the

Clinic previously held at John Perryn School, the rooms in which it was formerly held being needed for school purposes.

The building at Trinity Way served as Sports Pavilion to the C.A.V. Athletic Club until recent years, and was converted to provide accommodation for a Child Welfare and Ante-Natal Clinic, and Dental and Minor Ailments Clinics.

The new Clinic was not developed to its fullest extent during the year, but it was hoped to implement this early in 1952.

The use of St. Gabriel's church hall, Noel Road, was continued throughout the year, as the new clinic in Cloister Road was not ready for occupation until January, 1952.

Towards the end of the year a re-arrangement of the area provided for seven Health Visitors' districts, and from September onwards the bi-weekly sessions at Noel Road were shared by two Health Visitors. This arrangement was far from satisfactory as the accommodation provided was not suitable for dealing with large numbers, but it had been hoped that Cloister Road would have been available by that time. At the close of the year there were therefore five Clinics accommodating seven Health Visitor's districts. Each Health Visitor held two sessions weekly, generally one with a doctor in attendance and one without, but at Trinity Way the numbers warranted a doctor's attendance at both of the weekly sessions. At Steele Road a doctor attended on the second Monday of each month to carry out Diphtheria Immunisation in addition to the weekly doctor's session on Thursday afternoons.

After the second Health Visitor's district had been transferred to St. Gabriel's Hall, Noel Road, two doctor's sessions were held there, but this still failed to remedy the overcrowding, and as soon as the transfer could be made to Cloister Road, an additional session without a doctor was given to each Health Visitor.

Owing to the re-organisation of the district, a comparison of average weekly attendances with those of the previous year is not possible, but I am submitting the average attendances per session grouped under the five Clinics:-

Avenue Road (4 sessions per week)	.....	.....	30.5
John Perryn and Trinity Way (2 sessions per week)			32.5
St. Gabriel's, Noel Road (2 sessions per week)	.....	.....	26.5
Palmerston Road (2 sessions per week)	.....	.....	30.
Steele Road (2 sessions per week)	.....	.....	28.

HEALTH VISITING

Number of visits made during the year by all Health Visitors working in this area:

To expectant mothers—First visits	.....	438 8
	Total visits	671 1
To children under one year of age—First visits	.....	958 8
	Total visits	3,616 6
To children between the ages of one and five years—Total visits		4,878 8

INFANT WELFARE CLINICS

Total number of children who first attended the Clinics during the year, and who, on the date of their first attendance were:

Under one year of age	.....	884 4
Between the ages of one and five	.....	79 9

Total number of children in attendance at the end of the year:

Under one year of age	.....	709 9
Over one year	.....	2,374 4

Total number of attendances at Centres during the year:

By children under one year of age	.....	12,345 8
By children between one and five years	.....	5,791 1

MIDWIFERY SERVICE

Domiciliary Midwifery was performed as in previous years by the Midwives of Queen Charlotte's Hospital.

During 1951, 303 women were recommended for admission to Central Middlesex County Hospital for their confinements and most of these were accepted.

ANTE-NATAL CLINICS

During the first nine months of the year, three sessions a week were held at Avenue Road and a fourth at Palmerston Road clinic, but in October one of the Avenue Road sessions was temporarily discontinued.

It was intended to start this session again during 1952 at one of the two new Clinics.

Number of new Cases attending Clinics during year	697
Total number of attendances made	3,150
Average number attending weekly	61

The arrangements made by women for their confinements are tabulated below:

	%
Confined in Central Middlesex County Hospital	46.2
Confined in Queen Charlotte's Hospital	23.1
Confined in other Hospitals	7.8
Confined in Nursing Homes	2.1
Confined at home (Queen Charlotte's Midwives attending)	20.4
Private Doctors and Midwives	.4

EXERCISE CLASS FOR MOTHERS

The classes for expectant mothers were continued throughout the year, the total number of women attending in 1951 being 61, as against 99 in 1950. The number of attendances also showed a decrease—785 as against 1,411 for 1950. This drop in figures may possibly be due to the fact that exercise classes are now held at the Ante-Natal clinic at Central Middlesex Hospital, and the mothers who have booked for their admission will probably attend the class there.

PREMATURITY

Emergency apparatus for this purpose were kept and maintained at the Fire Station, Gunnersbury Lane.

The total number of premature live infants born at home during 1951 was eight. Two of these were nursed entirely at home and survived the first month. The remaining six were transferred to hospital. All eight children were living at the end of the year.

BIRTH CONTROL CLINIC

As in previous years, arrangements for this purpose with the North Kensington Women's Welfare Association were continued. One clinic weekly was held at the Palmerston Road Hall, South

Acton, a nominal fee being paid to the County Council for the use of the premises.

Nine patients were referred for advice in 1951.

HOME HELP SCHEME

At the end of the year there were 10 Full-time Home Helps, and 41 Part-time Staff. The following Table shows the number of cases booked and those actually attended:—

Maternity:

Total number of cases booked	.....	.....	52
Number of cases attended	.....	.....	44
Number of cases cancelled	.....	.....	8
Tuberculosis cases attended	.....	.....	31
Other cases attended	.....	.....	199

DAY NURSERIES

As indicated in my Annual Report for 1950, a Panel of members of each Area Health Committee of the Middlesex County Council was set up to review applications for retention in, or admission to, the Day Nurseries. This work has gone on steadily throughout the year, the Panel reporting to the Area Health Committee at regular intervals.

The accommodation at the four Acton Day Nurseries is unchanged. The table below shows accommodation, numbers on the registers at 31st December, and average attendance throughout the year.

	<i>Accom- modation</i>	<i>No. on Register at 31-12-51</i>	<i>Average Attendance</i>
Bollo Bridge Road	..... 35	33	29
Horn Lane	..... 60	62	38
Friars Place Lane	..... 45	43	34
“ Longcot,” Newton Grove	44	41	36

The attendance at Horn Lane shows a big decrease and this was due very largely to an outbreak of Sonne Dysentery which occurred in the Spring, and which necessitated the closure of the Nursery for a period of ten days. Following this a Measles epidemic accounted for a lowered attendance at all Nurseries.

SECTION DINFECTIOUS AND OTHER DISEASES, SCABIES AND
OTHER CONDITIONS

DIPHTHERIA IMMUNISATION

Immunisation was carried out along the lines indicated in previous reports, the following routine being practised:—

- (1) A notice was sent to the parent of each 6 months old child.
- (2) All infant welfare attenders were approached.
- (3) All children admitted to Day Nurseries were given protection.
- (4) Health Visitors combed their districts for children who did not attend Welfare Centres, and urged their protection.
- (5) Head Teachers gave forms of consent to new school entrants.
- (6) Prior to school medical inspections, questionnaires were sent to each parent asking, inter alia, whether the child had been inoculated. If the answer was in the negative a form of consent was sent to the parent.

All immunised cases were followed up and, at the end of three years, each child was offered a boost dose. At the age of 11 years or over, this was preceded by a Schick test.

All children under 5 who had not had the disease, were inoculated against Whooping Cough at the same time as they were inoculated against Diphtheria, i.e. they had three doses of protective material at monthly intervals.

58.02% of the population under 5 years of age, and 94.02% of the population aged 5 to 15 is now protected.

DIPHTHERIA IMMUNISATION, 1951

Total number of under 5's inoculated	.....	.....	687
Total number of over 5's inoculated	.....	.....	104
Re-inoculation after 3 years	.....	.....	1,549
Schick tests after 3 years—negative	.....	.....	382
positive	.....	.....	43
Primary Schick test —negative	.....	.....	20
positive	.....	.....	11

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR

Notifiable Disease	Cases notified in whole District. At Ages—Years.										Ward Distribution.							
	At all Ages	Under 1	1 to 2	3 to 4	5 to 9	10 to 14	15 to 24	25 to 44	45 to 64	Over 64	North East	North West	South	South East	South West	East	West	Central
Scarlet Fever	72	—	5	26	36	3	1	1	—	—	11	6	10	9	9	14	6	7
Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pneumonia	47	4	4	3	6	—	3	5	14	8	2	6	3	2	12	4	9	9
Erysipelas	6	—	—	—	—	—	—	2	4	—	1	2	—	—	1	2	—	—
Puerperal Pyrexia	2	—	—	—	—	—	—	2	—	—	1	—	—	—	1	—	—	—
Dysentery	67	2	14	7	15	3	4	15	6	1	3	5	5	7	5	11	4	27
Tuberculosis (Pul.)	117	—	1	3	3	—	28	49	30	3	9	8	24	7	18	13	20	18
Tuberculosis (Non-Pul.)	11	1	—	1	1	—	1	5	2	—	—	1	2	1	1	2	3	1
Measles	975	17	233	304	386	14	15	6	—	—	106	77	118	130	153	142	145	104
Whooping Cough	118	15	36	33	29	1	1	2	1	—	25	8	18	14	10	9	17	17
Ophthalmia Neonatorum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Meningitis	4	1	—	1	1	1	—	—	—	—	1	2	1	—	—	—	—	—
Typhoid	2	—	—	—	1	—	—	1	—	—	—	—	—	2	—	—	—	—
Paratyphoid	2	—	—	—	1	—	—	—	1	—	1	—	—	1	—	—	—	—
Acute Poliomyelitis (Paralytic)	3	—	—	—	1	1	—	1	—	—	—	1	1	—	—	—	—	1
Food Poisoning	4	—	—	—	—	—	1	1	1	1	—	—	—	—	3	—	1	—
TOTALS	1430	40	293	378	480	23	54	90	59	13	160	116	182	173	213	197	205	184

INFECTIOUS DISEASE

There were 1,430 cases of infectious diseases notified during the year, compared with 907 during 1950. Of the total cases 975 were in respect of measles, an increase of 522 cases over last year.

Diphtheria.

There were no cases during the year; 2 patients suspected to be suffering from the disease were found after admission to hospital to be suffering from laryngitis and tonsillitis respectively.

Typhoid and Paratyphoid Fevers.

The 2 cases of Typhoid Fever notified were members of one family—a mother and her child, aged 8. Although most extensive enquiries were made and many specimens were taken from contacts, the source of infection was not discovered. Of the two cases of Paratyphoid Fever one occurred in a girl aged 6. She was admitted to hospital because of pyrexia, which she had had for a week without any obvious cause. After laboratory investigations, paratyphoid was diagnosed and she was removed to an isolation hospital. The other case occurred in a woman, aged 54, but the diagnosis was open to doubt. In neither case could the source of infection be found, but there appeared to be no connexion between them.

Food Poisoning.

There was no outbreak of food poisoning during the year. Four single cases were notified, 3 of them being members of one family. In no case was it possible to identify the food causing the illness.

Dysentery.

Of the 67 cases of Dysentery notified, 29 cases were of children who attended Acton Day Nurseries; 21 of these cases occurred at Horn Lane Day Nursery during March. I closed the Nursery for a period of 10 days, after which no new cases were reported.

Scarlet Fever.

Cases continued to be of a mild character, 42 of the 72 notified being nursed at home. In most cases patients were only removed to hospital where the home conditions were such that they could not reasonably be treated or isolated at home.

Acute Poliomyelitis.

3 cases of poliomyelitis occurred, all of which were paralytic, but no deaths occurred from this disease.

TUBERCULOSIS

Age Periods	NEW CASES				DEATHS			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	Male	Female	Male	Female	Male	Female	Male	Female
0 —	—	—	—	1	—	—	—	—
1 —	2	3	—	—	1	—	—	—
5 —	1	2	1	—	—	—	—	—
15 —	14	10	—	2	2	1	—	—
25 —	27	10	1	3	1	2	1	—
35 —	5	8	—	1	4	1	—	—
45 —	16	3	—	—	4	3	1	—
55 —	13	1	1	1	4	—	—	—
65 upwards	2	—	—	—	2	1	—	—
	80	37	3	8	18	8	2	—

STATEMENT OF PARTICULARS APPEARING ON THE REGISTER
OF CASES OF TUBERCULOSIS—1951

	<i>Pulmonary</i>	<i>Non- Pulmonary</i>	<i>Total</i>
(a) Number of cases of tuberculosis on the Register at the commencement of the year	480 males 337 females	90 males 97 females	1004
(b) Number of cases notified for the first time during the year	80 males 37 females	3 males 8 females	128
(c) Number of cases previously removed from the Register which have been restored thereto during the year	— males — females	— males — females	—
(d) Number of cases added to the Register other than by notification during the year	50 males 22 females	— males 1 female	73
(e) Number of cases removed from the Register during the year	74 males 23 females	12 males 15 females	124
(f) Number of cases remaining on the Register at the end of the year	536 males 373 females	81 males 91 females	1081

SCABIES AND VERMINOUS CONDITIONS

As in previous years, cases suffering from the above conditions have been referred to the Kensington Medicinal Baths for cleansing treatment.

There were no persons treated for body lice during the year.

PERSONS TREATED FOR SCABIES

Month	Central	N.E.	N.W.	S.E.	S.W.	S.	W.	E.	Factory Workers	Total	No. of Families
January	2	1	—	—	—	—	—	—	—	3	2
February	—	—	1	—	4	—	—	—	—	5	2
March	—	—	—	—	—	—	—	—	—	—	—
April	—	—	—	—	—	—	—	—	—	—	—
May	—	—	—	—	—	—	—	—	—	—	—
June	—	—	—	—	—	—	—	—	—	—	—
July	—	—	—	—	—	—	1	—	—	1	1
August	—	—	—	—	—	—	—	—	—	—	—
September	—	—	—	—	—	—	—	—	1	1	—
October	—	—	—	—	—	—	—	—	—	—	—
November	—	—	—	—	—	—	—	—	—	—	—
December	—	—	—	—	4	—	—	—	—	4	1
TOTALS	2	1	1	—	8	—	1	—	1	14	6

PERSONS TREATED FOR DIRTY HEADS

Month	Central	N.E.	N.W.	S.E.	S.W.	S.	W.	E.	Factory Workers	Total	No. of Families
January	—	—	—	—	—	—	—	—	—	—	—
February	—	1	—	—	—	—	—	—	—	1	1
March	—	—	—	—	2	1	3	—	3	9	6
April	—	1	—	—	1	—	—	—	—	2	2
May	—	—	1	—	—	—	—	—	—	1	1
June	—	—	—	—	—	2	2	—	1	5	3
July	—	—	—	—	—	—	—	—	2	2	—
August	—	—	—	—	—	—	—	—	—	—	—
September	—	—	—	—	—	2	—	—	2	4	1
October	2	—	—	—	2	—	—	—	2	6	2
November	—	—	—	—	—	—	—	—	1	1	—
December	—	—	—	—	—	—	—	—	1	1	—
TOTALS	2	2	1	—	5	5	5	—	12	32	16

SECTION E

HOUSING

I am indebted to the Borough Engineer for the following information showing the progress made since the end of the war.

Temporary Prefabricated Dwellings.

Completed and occupied 31.12.51

256

New Permanent Dwellings.(1) *Within the Borough.*

(a) Completed and occupied 31.12.51.:—

The Vale	318
Bromley Lodge	18
St. Margarets Lodge	12
Esmond Road	30
Oakley House	18
Cumberland Road	4
Shalimar Lodge	24
Creswick Court	20
Glendun Court	38
Bollo Court	32
Hartley Court	8
Southfield Road	18
Carlton Road	42
Avenue Crescent	6
Rosemont Lodge	6
Hereford Road	6
James Welch Court	6
	————— 606

(b) Contracts let or under construction 31.12.51.:—

West Lodge Avenue	8
Oldfield Estate	54
Creffield Road	18
Springfield House	9
Queen Anne's Grove	6
Gunnersbury Lane	7
"Edendale," Creswick Road	18
108/112 Horn Lane	6
286/288 Horn Lane	6
	————— 132

(c) Schemes in preparation :—

258/262 Horn Lane	6
Faraday Road (2 sites)	4
Mayfield Road	2
59/63 Valetta Road	2
Avenue Road	6
Rosebank Way	6
Ashfield Road	25
	————— 51

(2) *Outside the Borough.*

(a) Completed and occupied 31.12.51:—			
Northolt Junction	.....	.....	161
Ruislip Gardens	.....	.....	261
			422
(b) Contracts let or under construction 31.12.51:—			
Hart Grove, Ealing	.....	.....	12
			12
			1,473

The erection of the dwellings mentioned above will complete the Council's programme for building works outside the borough, with the exception of their share of those dwellings to be erected on the Yeading Green Estate.

Rebuilt War Destroyed Dwellings.(1) *By the Council.*

(a) Completed and occupied 31.12.51:—			
Council Houses	.....	.....	8
Private Houses	.....	.....	36
			44

(2) *Under Private Licence.*

(a) Completed and occupied 31.12.51:—		230	230
			274
			274

SECTION F**SANITARY CIRCUMSTANCES OF THE AREA****WATER SUPPLY**

The Borough is supplied with water by the Metropolitan Water Board. The whole of the population is supplied from the public water mains direct to each house and the supply has been satisfactory.

Notifications of waste of water have been notified to the Metropolitan Water Board on 76 occasions and, in addition to saving a measure of the water supply, have been the means of preventing nuisance from dampness in many cases.

In addition to the public supply, there are three deep wells in the district, two at factory premises, and one at the Public Baths.

Samples of water from these wells have been taken from time to time and on submission to bacteriological and chemical examinations have proved satisfactory.

In the case of one well in a factory premises it was discovered that, while the well supply was satisfactory, storage conditions were adverse, and work of cleansing and some reconstruction of plant was effected to put the matter in order.

In the course of the year a total of 100 samples of water were submitted to the Council's analyst or the pathologist for examination as to chemical or bacteriological content.

DRAINAGE AND SEWERAGE

All the dwelling houses are provided with water closets and are connected to the sewerage system which discharges, by an arrangement with the L.C.C., into the London sewers. Stormwater is filtered and emptied into the Thames.

PUBLIC CLEANSING

The amount of house refuse collected by the Council in 1951 was 16,541 tons and trade refuse collected amounted to 867 tons. All was removed to controlled shoots. In addition to the foregoing, 2,361 tons of salvage were sold.

RODENT CONTROL

Test treatment of public sewers and treatment as necessary have been continued in accordance with the recommendation of the Ministry of Agriculture and Fisheries. The services of the Council's Rodent Destruction staff have been divided as occasion has demanded between disposal of newly discovered rats and mice by intensive treatment, and the regular visiting examination and treatment of business premises.

There is no serious infestation of rats or mice in the Borough, and there can be no doubt that this is largely due to the Council's policy and practice of maintenance treatment in business premises, particularly those where food for human consumption is manufactured or stored.

Investigation, destruction and maintenance have entailed a total of 2,525 visits by the Rodent Operatives, 1,729 to business premises, and 796 to dwellings, in addition to inspections by the Sanitary Inspectors as noted elsewhere.

INSPECTION OF FACTORIES

The number of factories in the Borough has lessened to 648, and these have been subject to inspection by the Sanitary Inspectors to ascertain that the provisions of the Factories Act, 1937, and

regulations as to sanitary accommodation are complied with. The usual work of inspection of factory canteens has been maintained, and advice given as necessary as to fitness or otherwise of food for human consumption.

The home addresses of 78 outworkers engaged in work at home for Factories within and outside the Borough, have been visited to ascertain hygienic conditions and freedom from infectious disease.

FACTORIES ACT, 1937

PART I OF THE ACT

1. INSPECTIONS for the purpose of provisions as to health (including inspections made by Sanitary Inspectors).

Premises	Number on Register	Number of Inspections	Number of Written Notices	Occupiers Prosecuted
Factories without mechanical power	42	10	1	—
Factories with mechanical power	603	172	3	—
Other premises under the Act (including works of building and engineering construction but not including outworkers' premises)	3	1	—	—
TOTAL	648	183	4	—

2. CASES IN WHICH DEFECTS WERE FOUND.

Particulars	Number of Defects				Prosecutions
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector	
Want of cleanliness (S.1.)	1	1	—	1	—
Conveniences (S.7.)					
(a) Insufficient	—	1	—	—	—
(b) Unsuitable or defective	3	3	—	3	—
TOTAL	4	5	—	4	—

PART VIII OF THE ACT

OUTWORK—(Section 110)

No. of out-workers in August list required by Sect. 110 (1) (c):—

Wearing Apparel—Making, etc	....	....	....	....	1
Stuffed Toys	....	....	....	....	63
				TOTAL	64

SANITARY INSPECTION OF THE AREA

The following table includes the tabular statements by the Chief Sanitary Inspector under article 27 (18) of the Sanitary Officers (Outside London) Regulations, 1935.

Tabulated Statement of Inspections and Details of work carried out by the Sanitary Inspectors:

Number of Inspections made and Action taken:—

Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts)	2,958
(1) Dealt with by service of informal notice	1,027
(2) Dealt with by service of Statutory Notice under Section 9 Housing Act, 1936	489
(3) Dealt with by service of Statutory Notice under Public Health Acts	80
(4) No defects found	194
Premises (other than defective dwelling houses) inspected for nuisances and miscellaneous defects	4,067
(1) Dealt with by service of informal notice	80
(2) Dealt with by service of Statutory Notice under Public Health Acts, etc.	—
Reinspections subsequent to service of Notice	14,475
Inspections after notification of Infectious Disease	138
Premises inspected under Prevention of Damage by Pests Act, 1949 and Infestation Order, 1943	809

The general improvement and condition of occupied houses has been maintained by requirements of repairs and the compliance by owners under Section 9 of the Housing Act, 1936. During the

year 74 Notices were passed to the Town Clerk for work to be done in default of owners.

The following table indicates the extensive and varied nature of the defects and dilapidations which have been made good following inspection by the Sanitary Inspectors.

Sanitary dustbins provided	82
Yards paved or yard paving required	50
Insanitary forecourts remedied	4
Defective drains repaired or reconstructed	132
Defective soil pipes and ventilating shafts repaired or renewed	29
Defective fresh air inlets repaired or renewed	22
Defective gullies removed and replaced by new	26
Rainwater downpipes disconnected from drain	—
Dishings or curb gully repaired or new gratings fixed	25
Defective W.C. pans and traps removed and replaced by new	56
Defective W.C. flushing apparatus repaired or new fixed	72
Defective W.C. seats repaired or new fixed	42
Defective flush pipe connections repaired	23
Insanitary sinks removed or new fixed	47
Sink waste pipes repaired or trapped	70
Insanitary wall surface over sinks remedied	23
Ventilated food cupboards provided	30
Drinking water cisterns cleansed	3
Defective covers to drinking water cisterns repaired or new fixed	5
Insanitary sites beneath floors concreted	5
Spaced beneath floors ventilated	49
Dampness in walls from defective damp proof coursing remedied	258
Dampness from defective roof, rainwater gutterings, etc, remedied	1,662
Defective plastering repaired (number of rooms)	1,441
Rooms where dirty walls and ceiling have been cleansed and redecorated	2,074
Defective floors repaired	273
Defective or dangerous stairs repaired	46
Defective doors and windows repaired	1,796
Defective kitchen ranges and firegrates repaired	400

Defective washing coppers repaired	16
Coal cupboards provided or repaired	3
Accumulations of offensive matter removed	18
Drains unstopped and cleansed	74
Drains tested, exposed for examination, etc.	287
Smoke observations taken	41
Smoke nuisances abated on service of notice	5
Miscellaneous nuisances abated	336
New W.C. apartments	5

RENT RESTRICTIONS ACT

Certificates granted to occupiers	1
Certificates granted to owners	1

PREMISES UNDER PERIODICAL INSPECTION

Factories and Workshops	648
Piggeries	3
Rag Dealers	4
Mews	4
Public House Urinals	31
Hairdressers	43

School Buildings:—

Grammar 1; Primary and Secondary 11; Technical 2; Special 1; Private 3	Total	18
Butchers' Shops		38
Fish Shops		39
Fish and Chip Shops		15
Greengrocer's Shops		89
Premises where food is manufactured or prepared		43
Grocery and Provision Shops		154
Dairies		12
Bakehouses		25
Slaughterhouses		2
Restaurants, Cafes, etc.		129
Industrial Canteen		203
Premises where ice-cream is manufactured		11
Premises where ice-cream is sold		98

SECTION G

INSPECTION AND SUPERVISION OF FOOD

FOOD INSPECTION

The amount of food-stuffs surrendered owing to deterioration or damage is related to the extensive work of food manufacture and distribution in the Borough.

Under the direction of the various Departments of the Ministry of Food, much inferior food material is received into the Borough for manufacturing purposes subject to control by the Local Authority, and the Sanitary Inspectors carry out necessary examinations to ensure that only sound material is used; this accounts generally for the bulk surrenders.

Two large wholesale grocery Depots are within the Borough, and hence surrenders of canned and packeted goods are made to this Authority; these surrenders constitute the major part of such foodstuff noted.

The following list collated for convenience shows some details of the surrendered food-stuffs:—

Corned beef and mutton	235 lbs.
Fresh meat, various	2,021 lbs.
Tinned meat, various	2,255 tins
Ham (tinned)	10,886 lbs.
Bacon	39 lbs.
Sausages	29 lbs.
Rabbits, fresh	75
Bakers Sundries	152 lbs.
Confectionery	26 lbs.
Preserves, various	934 tins
Fish	26 stone
Fish	1,032 tins
Fruit and vegetables, various	14,115 tins
Rabbits (tinned)	68 tins
Offal	49½ lbs.
Chickens	19
Turkeys	3

Pastes, pickles, etc.	.....	.....	.....	124 tins
Puddings, sweet and savoury	.....	.....	.....	96 tins
Milk, condensed	.....	.....	.....	2,378 tins
Milk, dried	.....	.....	.....	20 cwts.
Sugar	.....	.....	.....	32 lbs.
Tea	.....	.....	.....	16 lbs.
Shell eggs	.....	.....	.....	60
Dried Fruit	.....	.....	.....	1,216 lbs.
Dried Fruit	.....	.....	.....	79 packets
Dried Fruit	.....	.....	.....	17 boxes
Coconut (dessicated)	.....	.....	.....	8 lbs.
Cereals, various	.....	.....	.....	28 packets

COMPLAINTS

During the year there were 30 complaints as to unsound food or food not of the nature, quality or substance demanded, and in two cases the Council instituted Court Proceedings, resulting as follows:—

A dairy delivering milk from outside the Borough was fined £15 for selling a pint bottle of milk containing foreign material showing a profuse growth of mould and bacteria. The Council were awarded ten guineas costs. A firm of grocers was fined £6 in respect of the sale in a local shop of two ounces of ham which was unsound and contained maggots and a dead blowfly. The Council were awarded three guineas costs.

FOOD HYGIENE

Following the Clean Food Exhibition held in 1950 lectures illustrated by "Kodaslide" have been given by the Sanitary Inspectors, and have proved of great interest to those attending, who have included social groups, staffs of food premises, technical college students, and senior school children.

MILK

There has been no change in the number of establishments in the Borough where milk is bottled preparatory to local distribution, and the good standard of hygiene has been maintained,

Of 93 samples taken throughout the Borough and submitted to the Pathological Laboratory of the Ministry of Health, there was only one failure in respect of the methylene blue test, while all phosphatase tests were satisfactory.

The wholesale, pasteurising and bottling centre in Bollo Lane has continued in operation without cause for complaint, and of the 38 empty bottles taken from the filling lines for examination as to sterility, 36 were found to be sterile. The remaining 2 were unsatisfactory, and on checking with the dairy laboratory it was found that the trouble was due to a temporary breakdown in detergent application to a bottle cleansing machine, which deficiency had been discovered by the dairy on examination of bottles which were 'side-by-side' sampled with those referred to in this report.

ICE-CREAM

The manufacturers of ice-cream in the Borough remain at 11, while there are 98 premises where ice-cream is not manufactured but where the commodity is sold in the main from pre-packed stocks. During the year 280 samples were taken, 124 of ice-cream manufactured in the Borough, and 106 from shops or itinerant vendors trading in ice-cream manufactured outside the Borough. The grading of samples noted below and expressed in percentages indicates an improvement in the very good standard of ice-creams manufactured in the Borough.

Grade I.	.....	.....	.....	83.9%
Grade II.	.....	.....	.....	8.1%
Grade III.	.....	.....	.....	6.4%
Grade IV.	.....	.....	.....	1.6%

Premises, plant, processing and storage conditions are well and satisfactorily maintained.

FOOD AND DRUGS ACT, 1938

The Middlesex County Council are the sampling authority in this area, and the Chief Officer of the Public Control Department

has supplied the figures appended below of samples taken during the year:—

<i>Article</i>	<i>Total samples procured</i>	<i>Unsatisfactory</i>
Milk, various	202	20
Almonds, ground	1	—
Brandy	1	—
Cakes, various	21	—
Cheese Spread	1	—
Cherries, preserved	1	—
Cooked Meat	2	—
Fish, various	3	—
Fruit, Squash	2	—
Gin	3	—
Honey	1	—
Ice Cream	2	—
Lemon, Glycerine & Ipecacuanha	1	—
Lemon Cheese	1	—
Meat Paste & Pies	2	—
Milk Pudding	1	—
Milo	1	—
Mustard	1	—
Rum	5	—
Sausages	17	1
Sausage Meat	3	—
Self-raising Flour	1	—
Sherry	1	—
Sweets	1	—
Tomato Soup	1	—
Whisky	11	—
White Pepper	1	—
	<hr/> 288	<hr/> 21

SLAUGHTERHOUSES

At Atlas Road there has been an increase of approximately 20,000 pigs for inspection, and it is interesting to note that the incidence of T.B. in pork as shown by the tables on inspection, has reduced by .045%.

There was a slight increase in the number of horses slaughtered for human food at Hanbury Road, and the quality of the flesh was maintained.

TOTAL NUMBER OF CARCASSES INSPECTED WITH DETAILS OF SURRENDER ON ACCOUNT OF DISEASE :—

	Pigs	Horses
1. Number killed	107,987	5,581
2. Number dead on arrival or died in pens	47	Nil
3. Number inspected	108,034	5,581
4. All diseases except T.B.:—		
(a) Whole carcasses condemned	39	Nil
(b) Carcasses of which some part or organ was condemned	15,902	953
(c) Percentage of number inspected affected with disease other than T.B.	14.76%	17.08%
5. T.B. only :—		
(a) Whole carcasses condemned	171	Nil
(b) Carcasses of which some part or organ was condemned	3,307	Nil
(c) Percentage of number inspected affected with T.B.	3.22%	Nil

The total weights of meat and offal surrendered were :—

PORK				Tons.	Cwt.	Qrs.	Lbs.
210 CARCASSES	....	....	....	15	0	1	11
19,209 PARTS	....	....	....	45	5	0	15
				60	5	1	26
HORSEFLESH				Tons.	Cwt.	Qrs.	Lbs.
Nil CARCASSES	....	....	....	—	—	—	—
953 PARTS	....	....	....	6	4	2	16
				6	4	2	16

NUMBER OF PIGS' CARCASSES INSPECTED DURING 1951 WITH ANALYSIS OF SURRENDERS ON
ACCOUNT OF DISEASE.

Month	Pigs Slaughtered	PARTS CONDEMNED											
		Carcases	Heads	Collars	Fore Qtrs.	Hind Qtrs.	Legs	Skins	Hocks	Flares	Pieces of Pork	Plucks (Lungs, Livers, Hearts, Lights).	Wt. of Messenteries, Stomachs & Intestines
January	6,923	14	172	2	1	—	30	—	1	—	32 lbs.	788	1,040 lbs.
February	5,370	8	107	—	—	—	34	1	—	2	—	705	1,010 lbs.
March	4,911	9	123	—	—	—	23	3	—	3	20 lbs.	721	1,130 lbs.
April	8,832	15	179	—	—	—	53	6	5	4	32 lbs.	1,165	1,330 lbs.
May	9,957	21	224	2	—	—	45	4	—	1	28 lbs.	1,093	1,330 lbs.
June	7,604	11	181	—	—	—	41	6	—	4	22 lbs.	856	1,330 lbs.
July	9,465	9	182	—	—	—	55	9	—	4	76 lbs.	1,258	1,530 lbs.
August	8,027	38	175	—	—	—	29	4	—	4	25 lbs.	1,599	990 lbs.
September	10,109	19	166	1	—	—	66	3	—	3	54 lbs.	2,256	1,850 lbs.
October	12,102	37	222	4	—	—	75	2	3	5	54 lbs.	2,321	1,020 lbs.
November	12,498	16	181	1	—	—	84	4	—	5	20 lbs.	1,934	1,740 lbs.
December	12,236	13	158	—	—	—	47	—	—	3	53 lbs.	1,518	650 lbs.
TOTALS	108,034	210	2,070	10	1	—	582	42	9	38	416 lbs.	16,214	14,950 lbs.

DISEASES OF ANIMALS

The Borough was free from notifiable diseases of animals throughout the year, but was involved in outbreaks occurring elsewhere.

On the 19th November, because of numerous outbreaks of Foot and Mouth Disease in north-east and eastern coastal areas, the Ministry of Agriculture & Fisheries made a large controlled area under the Foot and Mouth Disease (Controlled Area Restrictions) General Order of 1938. On 20th November this area was extended to include Acton, and immediately the movement of all cloven-hoofed animals into the Borough was controlled and could only be made on licences granted in accordance with the terms of the Order.

This area was still scheduled at the end of the year, by which time the department had issued 1,528 movement licences, and 17,379 pigs had been moved into Walls' Slaughterhouse on licence. The work of issuing licences from the office, checking licences, inspecting animals and supervising the disinfection of vehicles at the Slaughterhouse, entailed the working of a considerable amount of overtime by members of the staff.

There were 41 contraventions of the General Order. In the course of correspondence and investigation it appeared that none of these cases occurred as a result of deliberate intent but rather as results of errors or misunderstandings and in some cases through misinformation from official sources. In each case a warning letter was sent and acknowledged, and there were no further contraventions by the offenders.

SECTION H

ATMOSPHERIC POLLUTION

In February, seven atmospheric pollution stations were established in the Borough on sites selected in consultations with the Fuel Research Section of the Department of Scientific and Industrial Research. Each station was equipped with one Lead Peroxide apparatus. Owing to delay in the supply of the Deposit Gauge

equipment, the three stations which were to be furnished with this apparatus were unable to commence operations until August.

ESTIMATION OF ATMOSPHERIC SULPHUR BY THE LEAD PEROXIDE METHOD

The table on page 40 gives the monthly figures for each station in the Borough. The station with the highest average was Bashley Road (1.84), which also had the highest monthly reading, 2.93. That with the lowest average figure was Acacia Road (1.34), and that with the lowest monthly figure Kenday Avenue (0.35).

For the purpose of comparison the monthly average figure for all stations is given in the form of a graph on page 41.

DEPOSIT GAUGES

The table on page 42 gives the monthly deposit of solids from the atmosphere in tons per square mile for the five months during which the gauges were in operation. The highest average monthly deposit (33.87) and highest month's deposit (44.65) were at Bashley Road, and the lowest monthly average and month's deposit were at Kendal Avenue (17.89 and 12.11). The graph on page 41 shows the comparison between the average monthly figures for the three stations.

Of the total of 361 tons of material deposited per square mile at the three stations, some 21% or 76 tons, was classed as combustible material and may be accepted as an indication of wasting of fuel—irrespective of waste in gaseous form.

ESTIMATION OF ATMOSPHERIC SULPHUR BY LEAD PEROXIDE INSTRUMENTS

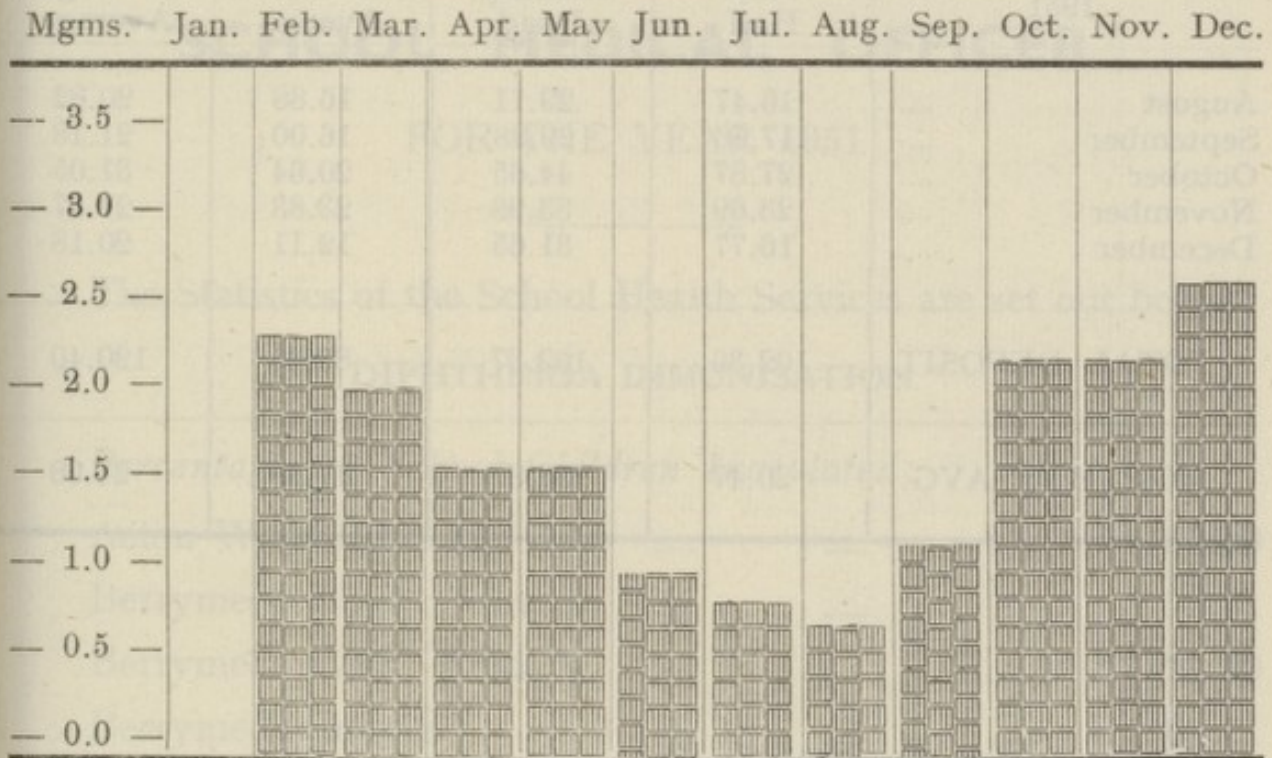
Weight of SO₂ in Milligrams per 100 Square Centimetres per day.

1951	Town Hall	Canham Road	Wells Hse. Road	Bashley Road	Wesley Road	Kendal Avenue	Acacia Road	Borough Average
February	2.66	2.72	2.20	2.86	2.24	1.56	1.90	2.31
March	2.02	2.18	1.81	2.11	2.28	1.87	1.72	1.99
April	1.65	1.61	1.72	1.77	1.54	1.48	1.30	1.58
May	1.48	1.57	1.45	1.72	1.79	1.51	1.27	1.54
June	0.96	0.87	0.90	1.07	1.09	0.80	0.85	0.93
July	0.89	0.71	0.83	0.92	0.82	0.60	0.62	0.77
August	0.77	0.44	0.63	0.88	0.58	0.35	0.42	0.58
September	1.18	0.86	1.05	1.32	1.20	0.94	0.81	1.08
Summer (May-Sep)	1.06	0.89	0.97	1.18	1.10	0.84	0.79	0.97
October	2.07	2.53	2.20	2.28	2.00	2.34	1.75	2.17
November	2.13	2.20	2.23	2.41	2.22	1.75	1.85	2.11
December	2.88	2.62	2.51	2.93	2.57	2.36	2.20	2.58
Monthly Average	1.69	1.66	1.59	1.84	1.66	1.41	1.34	1.60

SULPHUR EMISSION, 1951 (FEB.—DEC.)

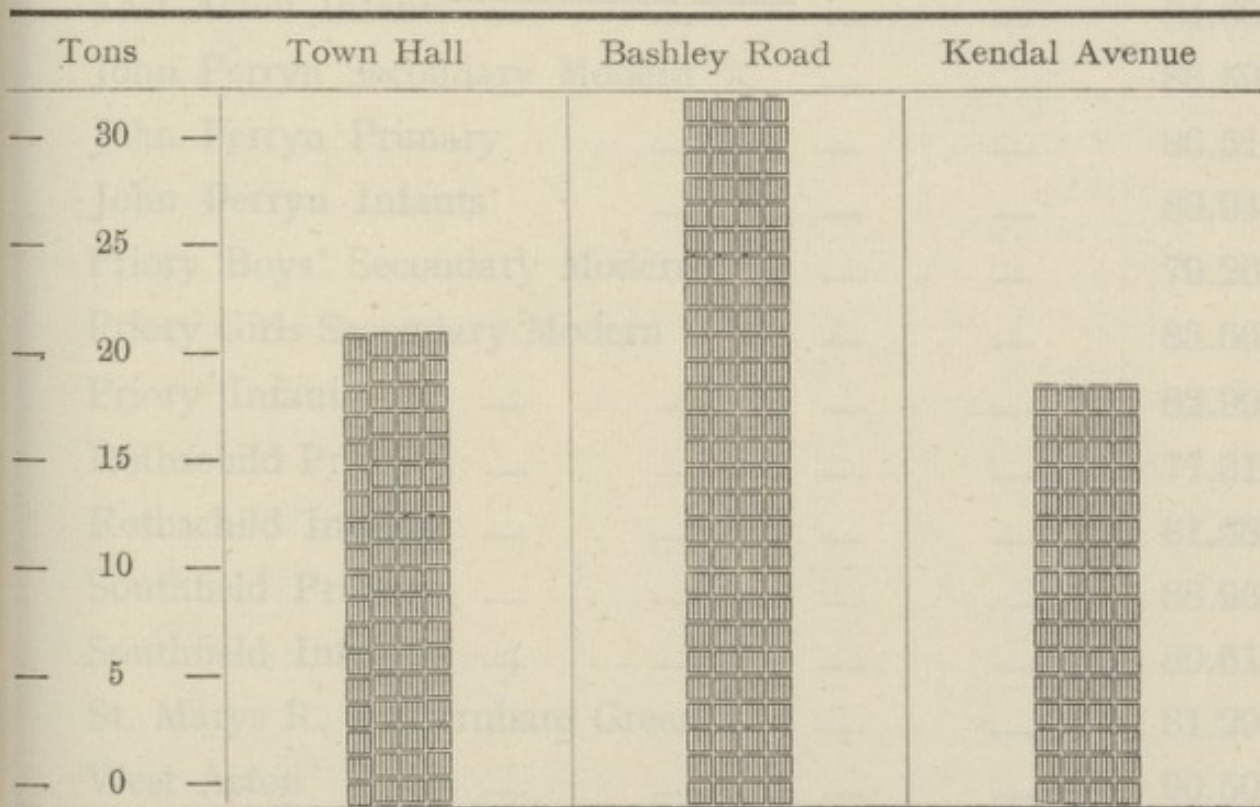
Amount of SO_3 in Milligrams per day per 100 Square Centimetres

MONTHLY AVERAGE FOR ALL STATIONS



SOLID DEPOSIT, 1951 (AUG.—DEC.)

AVERAGE MONTHLY DEPOSIT IN TONS PER SQUARE MILE



DEPOSIT GAUGES

MONTHLY DEPOSIT IN TONS PER SQUARE MILE

1951	Town Hall	Bashley Road	Kendal Avenue	Borough Average
August	16.47	29.11	16.88	20.82
September	17.56	29.98	16.00	21.18
October	27.87	44.65	20.64	31.05
November	23.69	33.98	23.83	27.17
December	16.77	31.65	12.11	20.18
TOTAL DEPOSIT	102.36	169.37	89.46	120.40
MONTHLY AVG.	20.47	33.87	17.89	24.08

ANNUAL REPORT

OF THE

SCHOOL MEDICAL OFFICER

FOR THE YEAR 1951

The Statistics of the School Health Services are set out below :

DIPHTHERIA IMMUNISATION

Percentages of School Children Inoculated:

Acton Wells Primary	.....	.....	.....	89.59
Berrymede Boys' Primary	.....	.....	.....	72.81
Berrymede Girls' Primary	.....	.....	.....	73.59
Berrymede Infants'	.....	.....	.....	68.71
Acton Central Secondary	.....	.....	.....	88.98
Derwentwater Primary	.....	.....	.....	86.15
Derwentwater Infants'	.....	.....	.....	84.58
East Acton Infants' .....	.....	.....	.....	84.00
John Perryn Secondary Modern	.....	.....	.....	86.59
John Perryn Primary	.....	.....	.....	86.51
John Perryn Infants'	.....	.....	.....	88.94
Priory Boys' Secondary Modern	.....	.....	.....	79.26
Priory Girls Secondary Modern	.....	.....	.....	83.66
Priory Infants'	.....	.....	.....	82.99
Rothschild Primary	.....	.....	.....	77.31
Rothschild Infants'	.....	.....	.....	81.58
Southfield Primary	.....	.....	.....	88.96
Southfield Infants'	.....	.....	.....	89.61
St. Marys R. C. Turnham Green	.....	.....	.....	81.29
West Acton	.....	.....	.....	90.50

AUDIOMETRY SCHEME

The following tables show the number of school children tested by Gramophone Audiometer, with details of failures and treatment given.

Total tested	.....	.....	.....	.....	1,241
Absentees	.....	.....	.....	.....	139
Referred to Minor Ailment Clinic	.....	.....	.....	.....	45
Referred to Aurist	.....	.....	.....	.....	25
Cleared without reference to Aurist	.....	.....	.....	.....	14
<i>Investigation Incomplete</i>					
Children removed to other Districts	.....	.....	.....	.....	2
Children left school	.....	.....	.....	.....	4
Children already known at Hospital	.....	.....	.....	.....	2
Children not previously known	.....	.....	.....	.....	23
Attending Aurist at the end of the year	.....	.....	.....	.....	24
<i>Cause of Deafness</i>					
Chronic Catarrhal Otitis Media	.....	.....	.....	.....	11
Chronic Otitis Media	.....	.....	.....	.....	3
Bone Conduction Deafness	.....	.....	.....	.....	2
Obstructive Deafness	.....	.....	.....	.....	2
Enlarged Tonsils	.....	.....	.....	.....	6
Nerve Deafness	.....	.....	.....	.....	1
<i>Treatment</i>					
Diastolisation	}	.....	.....	.....	14
Politserisation		.....	.....	.....
Diastolisation	.....	.....	.....	.....	3
Politserisation	.....	.....	.....	.....	2
Proctz	.....	.....	.....	.....	1
Eustachian Catheterisation	.....	.....	.....	.....	1
X-Ray of Sinuses	.....	.....	.....	.....	4
Removal of Tonsils and Adenoids	.....	.....	.....	.....	3
Removal of Adenoids	.....	.....	.....	.....	2
Speech Therapy	.....	.....	.....	.....	1
Breathing Exercises	.....	.....	.....	.....	3
<i>Results</i>					
Hearing improved	.....	.....	.....	.....	6
Attending Speech Therapy	.....	.....	.....	.....	2
Antral Puncture	.....	.....	.....	.....	1
<i>Special Educational Treatment</i>					
To sit in front row	.....	.....	.....	.....	24

REPORT OF THE SCHOOL OCULIST

Attendances at the Clinic were very satisfactory during the year. 338 children were refracted. Glasses were prescribed for 259, and of those 239 children obtained their glasses. 7 children were referred for squint operation, and 7 for orthoptic treatment. Many more children could be recommended for orthoptic treatment if facilities were available in the neighbourhood.

Five children were passed for Easy Treatment, and two were referred to schools for the partially sighted.

DENTAL REPORT—MATERNITY AND CHILD WELFARE

	Expectant Mothers	Nursing Mothers	Children under 5
Number examined by Dental Officer	130	26	316
Number needing treatment	130	26	290
Number of cases made dentally fit	74	50	288
<i>Forms of dental treatment provided:—</i>			
Teeth extracted	202	11	381
<i>Anaesthetics:—</i>			
(a) Local	2	2	—
(b) General	57	5	149
No. of fillings	165	29	10
Scalings or scaling and gum treatment	93	8	—
Silver nitrate treatment	—	—	467
Dressings	44	13	40
Radiographs	—	—	—
Other operations	9	9	—
Denture Dressings	18	104	—
<i>Dentures provided:—</i>			
(a) full	2	10	—
(b) partial	2	31	—
Number of attendances	291	150	341
Number of appointments not kept	66	28	52

SPEECH THERAPY REPORT

Number of cases treated 72

Total number of attendances 1,144

69 First appointments were arranged.

45 Attended

24 Failed to attend

61 Follow-up appointments were made

38 Attended

23 Failed to attend

Of the 72 who attended for treatment:—

15 were discharged, cured.

5 were discharged, much improved

2 left school

3 left the district

9 failed attendance

2 were making no progress

3 were discharged temporarily

33 required further treatment

9 will be transferred to Cloister Road Clinic

24 will continue to attend at Avenue Road

There are 6 names on the Waiting List

2 for Cloister Road

4 for Avenue Road

SPECIAL SCHOOL

The School for Educationally Sub-normal Children was open for the whole of 1951, and at the end of the year 40 children were on the roll. During the year 8 new cases were admitted.

VISITS PAID BY SCHOOL NURSES

The following is the number of home visits paid by the Nurses

during the year. The visits have been divided into school distribution.

Acton Wells	27
Berrymede	155
Derwentwater	15
East Acton	103
John Perryn	71
Priory	62
Roman Catholic	8
Rothschild	48
Southfield	21
West Acton	31
Special School	4
Other Schools	23
TOTAL	568

MEDICAL INSPECTION

Medical Inspection of pupils attending Maintained Primary and Secondary Schools (including Special Schools).

Periodic Medical Inspections				Other periodic inspections	Special inspections	Re-inspections
Entrants	Second age group	Third age group	Total			
1,110	640	434	2,184	334	25	2,327

Classification of the General Condition of Pupils

Age Groups	Number of Pupils inspected	A. (Good)		B. (Fair)		C. (Poor)	
		No.	% of col. 2	No.	% of col. 2	No.	% of col. 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Entrants	1,110	574	51.72	505	45.49	31	2.79
Second Age Group	640	330	51.57	300	46.87	10	1.56
Third Age Group	434	284	65.44	145	33.41	5	1.15
Other Periodic Inspections	334	142	42.51	187	55.99	5	1.49
TOTAL	2,518	1,330	52.82	1,137	45.15	51	2.03

Defects found by Medical Inspection during the Year

Defect or Disease (1)	Periodic Inspections		Special Inspections	
	No. of defects		No. of defects	
	Requiring treatment. (2)	Requiring to be kept under observation but not requiring treatment. (3)	Requiring treatment (4)	Requiring to be kept under observation but not requiring treatment. (5)
Skin	4	4	1	—
Eyes—				
a. Vision	175	111	10	2
b. Squint	34	20	3	—
c. Other	15	—	—	—
Ears—				
a. Hearing	12	10	1	—
b. Otitis Media	4	2	—	—
c. Other	5	6	—	—
Nose and Throat	120	66	1	2
Speech	22	5	—	—
Cervical glands	5	9	—	—
Heart and Circulation	—	48	—	—
Lungs	1	46	—	—
Developmental—				
a. Hernia	—	2	—	—
b. Other	—	—	—	—
Orthopaedic—				
a. Posture	17	29	—	—
b. Flat foot	7	18	—	—
c. Other	26	39	—	—
Nervous system—				
a. Epilepsy	1	2	—	—
b. Other	3	11	1	—
Psychological—				
a. Development	—	1	—	1
b. Stability	2	1	—	—
Other	43	135	1	3

Pupils found to require treatment

Number of individual pupils found at periodic medical inspection to require treatment (excluding dental disease and infestation with vermin).

Group.	For defective vision (excluding squint).	For any other conditions	Total individual pupils.
Entrants	5	204	193
2nd Age Group	100	66	163
3rd Age Group	52	41	90
Total (prescribed group).....	157	311	446
Other periodic inspections	18	10	28
TOTALS	175	321	474

TREATMENT TABLES**MINOR AILMENTS****(a) Diseases of the Skin.**

Number of cases treated or under treatment during the year

	By the Authority	Otherwise
Ringworm—(i) Scalp	—	—
(ii) Body	4	—
Scabies	—	3
Impetigo	13	—
Other skin diseases	156	—
TOTAL	173	3

(b) Other treatment.

Number of cases treated

	By the Authority	Otherwise
Miscellaneous minor ailments	1,876	—

DEFECTIVE VISION AND SQUINT.

	Number of cases dealt with	
	By the Authority	Otherwise
External and other, excluding errors of refraction and squint	70	—
Errors of refraction (including squint)	338	—
TOTAL	408	—

Number of pupils for whom spectacles were :

(a) Prescribed *	259	32
(b) Obtained	239 (+ 30 from last year)	—

* Including cases dealt with under arrangements with the Supplementary Ophthalmic Services.

TREATMENT OF DEFECTS OF EAR, NOSE AND THROAT.

	Number of cases treated	
	By the Authority	Otherwise
Received operative treatment :		
(a) for diseases of the ear	—	—
(b) for adenoids and chronic tonsillitis	—	237
(c) for other nose and throat conditions	—	—
Received other forms of treatment	305	—
TOTAL	305	237

ORTHOPAEDIC AND POSTURAL DEFECTS.

	Number of pupils treated	
	By the Authority	Otherwise
(a) Number treated as in-patients in hospital	—	3
(b) Number treated otherwise	—	52

CHILD GUIDANCE TREATMENT AND SPEECH THERAPY.

	Number of pupils treated	
	By the Authority	Otherwise
(1) Child Guidance	—	7
(2) Speech Therapy	72	2

DENTAL INSPECTIONS AND TREATMENT

Age Groups	No. inspected	No. found to require treatment	No. referred for treatment under Local Authority arrangements to County Council Clinics
Specials	1,978	1,824	1,810
Under 5	—	—	—
5 — 16 +	1,315	783	776
TOTALS	3,293	2,607	2,586

Number of pupils actually treated	1,946
Number of attendances made for treatment	3,431
Number of half days devoted to (a) Inspections	13
(b) Treatment	379
TOTAL	392

Fillings :—

Permanent Teeth	1,503
Temporary Teeth	54
TOTAL	1,557

Number of teeth filled :—

Permanent Teeth	1,299
Temporary Teeth	49
TOTAL	1,348

Extractions :—

Permanent Teeth	305
Permanent Teeth for Orthodonture	49
Temporary Teeth	2,820
TOTAL	3,174

Anaesthetics :—

(a) General	....	....	....	....	....	....	....	....	1,284
(b) Local	....	....	....	....	....	....	....	....	60

Other Operations :—

(a) Permanent Teeth	285
(b) Temporary Teeth	1,850

TOTAL	1,370
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Number of impressions, etc.	83
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Number of dentures fitted	26
---------------------------	------	------	------	------	------	------	------	------	----

Number of radiographs :—

(a) Dental Clinics	—
(b) Hospitals	5

ORTHODONTIC EXAMINATION AND TREATMENT

Age Groups	No. of pupils examined	No. of pupils selected for treatment
Age 5	2	2
„ 6	4	4
„ 7	16	16
„ 8	32	32
„ 9	21	21
„ 10	11	11
„ 11	13	12
„ 12	15	15
„ 13	16	16
„ 14 +	9	9
TOTAL	139	138

Number of pupils commenced treatment (First attendance)	138
Number of attendances made for treatment	787
Number of impressions, etc.	718
Number of fixed appliances	32
Number of appliances removed	51
Number of pupils treatment completed	49
Number of radiographs :—	
(a) at Dental Clinics	218
(b) at Hospitals	328
Number of Orthodontic sessions ($\frac{1}{2}$ day)	79

EMPLOYMENT OF CHILDREN AND YOUNG PERSONS

(1) Number of children medically examined in order to ascertain whether they were physically fit to undertake employment of a light nature outside school hours	84
(2) Number of instances in which the state of health was found to be such that certificates were withheld	Nil
(3) Number of children examined as to fitness to take part in entertainments	12
(4) Number of cases in which certificates to take part in entertainments were withheld	Nil

EDUCATION ACT, 1944 — SECTIONS 57 (3) AND 57 (5)

Cases notified under Section 57, Education Act, 1944 :

Sub-section 3	8
Sub-section 5	3

Cases de-notified under Section 8, Education (Miscellaneous Provisions) Act, 1948	1
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MEDICAL EXAMINATION OF TEACHERS

(a) Number of Teachers examined as to fitness for appointments	14
(b) Number of Students examined as to fitness for first appointment	Nil

INFESTATION WITH VERMIN

(i) Total number of examinations	23,499
(ii) Total number of individual pupils found to be infested	145
(iii) Number of individual pupils in respect of whom cleansing orders were issued (Section 54 (2), Education Act, 1944)	—
(iv) Number of individual pupils in respect of whom cleansing orders were issued (Section 54 (3), Education Act, 1944)	—

HANDICAPPED PUPILS.

Category	No. of new cases ascertained during the year		No. of Ascertained cases known last day of year		In Special day Schools.		In Special Residential Schools.		In maintained Primary & Secondary Schools.		In Independent Schools.		Not at School.		TOTAL.	
	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G
Blind Pupils	—	—	1	1	—	—	1	1	—	—	—	—	—	—	1	1
Partially-sighted Pupils	4	3	10	14	—	2	—	4	10	8	—	—	—	—	10	14
Deaf Pupils	1	—	6	6	1	5	4	1	1	—	—	—	—	—	6	6
Partially Deaf Pupils	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Delicate Pupils	8	2	19	9	1	—	7	1	9	7	1	—	1	1	19	9
Diabetic Pupils	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	1
Educationally Sub-normal Pupils	3	5	16	15	12	9	2	1	1	4	—	—	1	1	16	15
Epileptic Pupils	—	—	4	—	—	—	1	—	3	—	—	—	—	—	4	—
Maladjusted Pupils	1	2	11	6	—	—	8	4	3	1	—	1	—	—	11	6
Physically Handicapped Pupils	2	—	10	9	4	2	1	1	3	5	1	—	1	1	10	9
Pupils with Speech Defects	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pupils with Multiple Defects	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	19	12	77	61	18	18	24	13	30	26	2	1	3	3	77	61

1951—AVERAGE HEIGHTS AND WEIGHTS—ENTRANTS.

SCHOOL	Total No. Seen.	2 YEARS			3 YEARS			4 YEARS			5 YEARS			6 YEARS			7 YEARS		
		No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.
BOYS																			
Acton Wells	29						19	41.6	41.02	6	44.66	44.08	2	45.25	50.	2	51.25	64.	
Berrymede	59						30	41.51	40.14	20	42.87	42.01	6	47.25	51.41	3	47.5	50.66	
Derwentwater	38						1	42.75	40.25	31	42.89	41.47	4	44.87	44.43	2	47.75	51.	
East Acton	58									53	43.95	43.99	5	45.55	50.05				
John Perryn	46						15	42.5	43.73	28	43.26	43.	1	45.5	45.75	2	46.87	49.75	
Priory	82	9	35.41	32.58	8	38.03	34.56	40	40.13	39.1	24	43.07	45.32	1	44.5	53.75			
Roman Catholic	39									32	43.49	44.06	5	45.05	47.2	2	46.75	48.3	
Rothschild	66				3	40.	35.08	49	41.59	39.6	8	42.84	41.65	6	46.25	49.			
Southfield	85							53	42.48	40.77	27	43.94	43.32	5	45.7	51.			
West Acton	56							32	42.47	40.85	24	44.39	45.88						
Special	3												1	48.	55.	2	47.5	51.	
	561	9	35.41	32.58	11	38.56	34.7	239	41.71	40.38	253	43.54	43.55	36	45.84	49.33	13	47.9	52.34
GIRLS																			
Acton Wells	27							17	41.44	39.41	9	43.38	42.86	1	48.	52.			
Berrymede	80							47	41.17	38.19	29	43.14	42.14	3	47.33	49.33	1	46.	49.
Derwentwater	50							1	39.	39.	44	43.09	42.03	4	45.25	44.25	1	48.5	54.
East Acton	53										48	43.82	42.35	4	45.31	46.18	1	47.	45.
John Perryn	64							24	42.07	39.95	35	43.49	43.45	4	46.75	47.81	1	41.	41.5
Priory	56	3	33.66	27.66	6	38.37	37.16	31	40.39	40.87	16	41.15	39.98						
Roman Catholic	22										14	44.55	45.82	5	46.2	48.4	3	47.83	53.
Rothschild	55							36	41.	37.71	14	42.76	41.	3	43.41	41.41	2	48.75	50.
Southfield	91							49	42.21	39.84	35	43.52	43.01	4	47.75	52.5	3	48.	50.
West Acton	53							34	42.29	40.41	18	44.05	42.55	1	43.5	44.			
Special																			
	551	3	33.66	27.66	6	38.37	37.16	239	41.52	39.39	262	43.36	42.51	29	46.03	47.35	12	47.29	49.87

1951— AVERAGE HEIGHTS AND WEIGHTS—INTERMEDIATES

SCHOOL	Total No. Seen.	7 Yrs.			8 Yrs.			9 Yrs.			10 Yrs.			11 Yrs.		
		No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.	No. seen	Ht. ins.	Wt. lbs.
BOYS																
Acton Wells	39				1	54.5	83.	2	56.25	74.25	14	56.25	75.	22	55.52	75.09
Berrymede	75	2	48.25	59.	4	47.62	50.5	2	50.12	68.	33	55.62	77.05	34	55.55	75.3
Derwentwater	53				4	50.25	55.62				17	54.64	69.44	32	55.99	78.18
John Perryn	65				6	49.91	59.29				9	55.8	75.13	50	56.11	76.92
Roman Catholic ..	28				1	55.5	60.	1	50.	60.				26	56.47	81.63
Rothschild	40	1	48.	50.				2	54.	63.37	6	55.5	76.5	31	56.67	76.96
Southfield	36				1	53.5	68.				18	55.43	87.77	17	56.14	83.2
Acton Special	5							3	54.66	92.33	1	55.5	72.	1	59.	79.
	341	3	48.16	56.	17	50.26	58.3	10	53.47	74.82	98	55.51	77.14	213	56.08	77.75
GIRLS																
Acton Wells	25				2	50.5	69.				3	54.66	69.33	20	55.23	77.4
Berrymede	82	1	49.	59.	5	51.7	58.05	2	51.	67.	33	55.09	72.71	41	55.81	75.86
Derwentwater	44				3	51.33	58.	1	51.5	63.	10	55.55	75.02	30	55.6	77.13
John Perryn	68				1	52.	58.	2	54.25	79.37	13	55.53	70.57	52	56.27	77.27
Roman Catholic ..	21				2	49.5	53.25	1	54.	61.	3	52.33	68.66	15	56.36	78.53
Rothschild	34	2	47.5	50.	1	48.	48.	1	49.5	60.25	5	57.5	77.7	25	56.54	78.1
Southfield	31				1	54.	81.	4	54.25	60.	9	54.44	86.88	17	57.64	88.17
Acton Special	6				1	52.5	57.5	1	51.5	67.	1	52.	50.5	3	54.25	71.83
	311	3	48.	53.	16	51.18	59.57	12	52.83	65.33	77	55.14	74.05	203	56.1	78.

1951—AVERAGE HEIGHTS AND WEIGHTS—LEAVERS

SCHOOL	Total No. Seen.	11 YEARS.			12 YEARS.			13 YEARS.			14 YEARS.			15 YEARS.			
		No.	Ht.	Wt.	No.	Ht.	Wt.	No.	Ht.	Wt.	No.	Ht.	Wt.	No.	Ht.	Wt.	
		seen	ins.	lbs.	seen	ins.	lbs.	seen	ins.	lbs.	seen	ins.	lbs.	seen	ins.	lbs.	
BOYS																	
Central	30				4	60.43	101.	1	59.25	89.	23	63.6	111.78	2	67.5	124.62	
John Perryn	38	1	57.	76.	2	55.75	72.75	1	68.	118.	31	62.8	103.1	3	66.16	132.41	
Priory	120	6	55.83	77.83	10	58.	92.2	7	60.78	104.07	93	63.66	115.85	4	66.	123.25	
Roman Catholic	13				2	58.37	81.5	1	65.	124.5	8	64.81	117.68	2	66.87	129.	
Acton Special	8				3	58.91	85.08	3	60.66	84.	2	67.25	126.5				
	209	7	56.	77.55	21	58.41	89.98	13	61.51	100.92	157	63.59	112.97	11	66.47	127.13	
GIRLS																	
Central	54				3	60.	101.66	2	60.25	83.5	49	62.73	111.94				
John Perryn	44				2	59.5	80.5	1	64.5	116.	39	62.41	109.11	2	63.25	113.	
Priory	129	3	56.75	79.5	4	56.62	82.	5	62.55	115.95	113	62.66	114.68	4	64.75	126.81	
Roman Catholic	6				1	56.5	81.				4	62.12	107.75	1	63.5	128.	
Acton Special	11				2	56.75	94.25	1	56.	76.	5	60.4	108.9	3	60.66	121.16	
	244	3	56.75	79.5	11	58.09	89.31	10	61.02	101.97	210	62.57	112.74	10	63.1	122.47	

1990 AVERAGE HEIGHTS AND WEIGHTS INTERMEDIATE SEX

Year	Age	Height (cm)	Weight (kg)	Height (cm)	Weight (kg)	Height (cm)	Weight (kg)	Height (cm)	Weight (kg)	Height (cm)	Weight (kg)	Height (cm)	Weight (kg)
1988	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1989	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1990	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1991	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1992	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1993	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1994	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1995	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1996	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1997	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1998	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
1999	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2000	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2001	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2002	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2003	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2004	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2005	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2006	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2007	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2008	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2009	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41
2010	11	148.12	38.2	149.08	38.81	149.05	39.13	149.31	39.13	149.11	39.1	149.41	39.41