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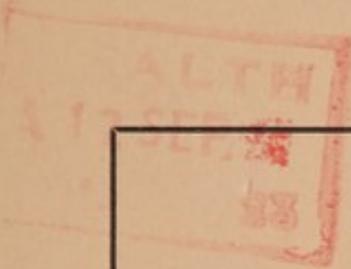
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WHITWORTH URBAN DISTRICT COUNCIL



ANNUAL REPORT

of the

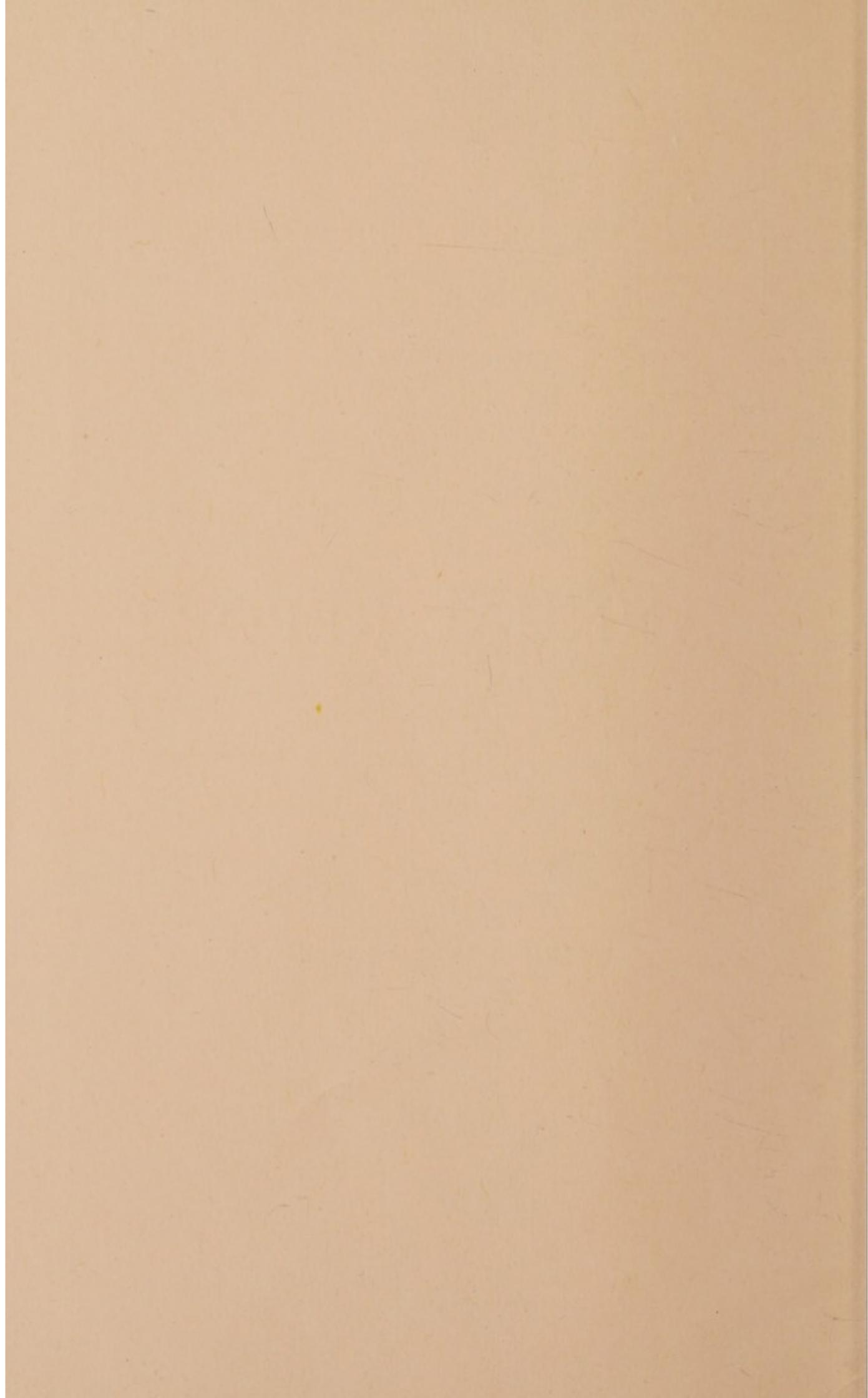
MEDICAL OFFICER OF HEALTH

and

PUBLIC HEALTH INSPECTOR

for the year

1960



WHITWORTH URBAN DISTRICT COUNCIL



ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH

and

PUBLIC HEALTH INSPECTOR

for the year

1960

HARRY HOYLE AND COMPANY,
Solicitors to the Council,
Mr. E. R. CRAWSHAW,
Clerk of the Council,
Mrs. M. STANLEY,
Dipl. Hygiene, R.I.P.H.K.,
Cert. Inspector Foods, R.S.I.,
HARRY J. FIELD, M.A.P.H.L.,
S.E.L.K.C.I.P. & N.S. Public Health Inspector,
A. NELSON PICKLES, M.B., B.S.,
Member Medical Officer of Health for 1

WHITWORTH URBAN DISTRICT COUNCIL

MEMBERS OF THE COUNCIL, 1960.

Chairman of the Council:

COUNCILLOR A. MELLOR, J.P. (January—May)
COUNCILLOR R. HORROCKS, J.P. (June—December)

Chairman of the Health Committee:

COUNCILLOR P. R. HOLT

Councillors:

*H. BOWER	A. MELLOR, J.P.
*J. CLEGG.	A. PAINTER
G. HOLT.	(June—December).
E. HOWORTH	H. SMITH.
(January—May).	*MRS. C. A. TIERNEY.
*P. LAW.	F. W. WALKER.

* Members of the Health Committee.

PUBLIC HEALTH DEPARTMENT,
COUNCIL OFFICES, WHITWORTH.
Telephone: Whitworth 2213.

Medical Officer of Health:

A. NELSON PICKLES, M.B., CH.B., D.P.H.

Public Health Inspector:

HARRY L. FIELD, M.A.P.H.I.,
Cert. Inspector of Meat and Foods, R.S.I.
Dipl. Hygiene, R.I.P.H.H.

Clerk:

MRS. MARION STANLEY.

Clerk of the Council:

MR. E. R. CRAWSHAW.

Solicitors to the Council:

HARRY HOYLE AND COMPANY.

TO THE CHAIRMAN AND COUNCILLORS OF THE WHITWORTH URBAN DISTRICT COUNCIL

MR. CHAIRMAN, LADY AND GENTLEMEN,

In accordance with my statutory duty as your Medical Officer of Health, I have the honour to present the Annual Report for the year, 1960.

The contents of this report have been compiled in accordance with the Ministry of Health Circular 1/61, dated 31st January, 1961.

Clearance of houses unfit for human habitation is the main public health problem in the district, and will be for years to come. During 1960, ten clearance areas representing 41 houses, and 9 individually unfit houses were officially represented under the Housing Acts. Seven families were rehoused from these properties in 1960.

The epidemic of measles commencing in 1959 continued into 1960 and 58 cases were notified. The complications from this disease can still be dangerous and the development of an anti-measles vaccine will no doubt not be long delayed.

I am, Mr. Chairman, Lady and Gentlemen,

Your obedient servant,

A. NELSON PICKLES,
Medical Officer of Health.

VITAL STATISTICS.

Births: 137 births (70 males and 67 females) were registered this year; a crude birth rate of 18.6 per thousand of the population. The corrected birth rate, i.e. that rate which would be arrived at if the age and sex constitution of the population of the district was in the same proportion as the rest of England and Wales, is 18.8.

10 births were illegitimate.

There were 7 still births. This gives a still birth rate of 48.6 per 1,000 total births.

The Registrar-General's area comparability factor for the adjustment of the birth rate is 1.01.

Deaths: 92 deaths were registered, of which 42 were males and 50 females.

The crude death rate is 12.5 and the adjusted rate is 13.8 per thousand estimated population. (Registrar-General's comparability factor is 1.10).

Maternal Mortality: It is very gratifying to report again, that there has been no maternal death in the district.

General Provision of Health Services in the Area: These services are administered by the County Council through No. 13 Divisional Health Committee, on which this Council is represented.

TABLE I

CLINIC SESSIONS HELD AT THE SCHOOL CLINIC, MARKET STREET WHITWORTH.

Minor Ailments :	Tuesdays, 9-30 a.m.—12 noon. Fridays, 9-30 a.m.—10-30 a.m.
Child Welfare :	Tuesdays, 2—4 p.m.
Immunisation and Vaccination :	4th Tuesday in month, 10-30 a.m.
Ante-natal Session : (Midwives only).	Mondays, 2—4 p.m. (Doctor attends on first) Monday in month).
Chiropody:	Thursdays 1-30—4-30 p.m.
Speech Therapy:	Mondays 9 a.m.—12 noon

TABLE II

DIVISIONAL HEALTH STAFF—WHITWORTH AREA.

Asst. Div. Medical Officer & Sch. Medical Officer.	Dr. M. A. Feeny, School Clinic, Market Street, Whitworth. Tel. Whitworth 2381.
Health Visitor and School Nurse.	Miss E. B. Ferguson, School Clinic, Market Street, Whit- worth. Tel. Whitworth 2381.
Tuberculosis Health Visitor.	Mrs. M. E. Schofield, "Sparth- field," Manchester Rd., Roch- dale. Tel. Rochdale 48333.
District Nurse.	Mrs. C. Bridge, 2, Brenbar Crescent, Whitworth. Tel. Whitworth 2177.
Domiciliary Midwife.	Mrs. T. R. Hay, 63 Wallbank Drive, Whitworth. Tel. 2131.
Divisional Welfare Organiser.	Mr. J. H. Todd, Divisional Health Office, 193 Drake Street, Roch- dale. Tel. Rochdale 48231.
Home Help Organiser.	Miss I. Crawford, Divisional Health Offices, 193 Drake Street, Rochdale. Tel. Rochdale 48231.

Mental Health Worker. Miss J. R. Lambert, Divisional Health Offices, Rochdale. Tel. Rochdale 48231.

Duly Authorised Officer. Mr. E. B. Williams, Divisional Health Offices, Rochdale. Tel. Rochdale 48231. (Outside Office Hours: Tel. Oldham MAIN 5488).

Ambulance Station, Bacup. Station Officer J. A. Ashforth, Commercial Street, Stacksteads. Tel. Accrington 34834

APPENDIX

STATISTICS AND SOCIAL CONDITIONS.

Summary of Statistics : 1960.

Area (Acres)				4483
Population (Census 1931)				8360
Population (Census 1951)				7442
Population estimated (Mid 1960)				7350
Number of inhabited houses (1960)				2598
Rateable Value				£63,064
Sum represented by a penny rate				£243
LIVE BIRTHS	Male	Female		Total
Legitimate	62	65		127
Illegitimate	8	2		10
	—	—		—
Total	70	67		137
	—	—		—
Birth-rate per 1,000 estimated population.....				18.8
Illegitimate Live Births per cent. of total live births.....				7.3
Still Births—Number				7
Rate per 1,000 total live and still births				48.6
Total Live and Still Births				144
Infant Deaths (Deaths under 1 year)				5
Infant Mortality Rates				
Total infant deaths per 1,000 total live births				36.5
Legitimate infant deaths per 1,000 legitimate live births				31.5
Illegitimate infant deaths per 1,000 illegitimate live births				100
Neo-natal Mortality Rate (deaths under 4 weeks per 1,000 total live births				21.9
Early Neo-natal Mortality Rate (deaths under 1 week per 1,000 total live births).....				14.6
Perinatal Mortality Rate (still births and deaths under 1 week combined per 1,000 total live and still births				62.5
Maternal Mortality (including abortion).				
Number of deaths				Nil
Rate per 1,000 total live and still births				Nil
	Male	Female		Total
Deaths.....	42	50		92
Death rate per 1,000 estimated population.....				13.8
Deaths from Certain Specified Diseases.				
Diseases of Circulatory System.....				41
Cancer (all forms)				6
Tuberculosis				Nil
Bronchitis				4

INFANT MORTALITY

Year	No of deaths	Infant Mortality, Rate per 1,000 live births	Quinquennial Rates	
			Year	Rate
1960	10	36.5	56-60	23.7
1959	2	13	55-59	24
1958	5	45	54-58	35
1957	2	16	53-57	31
1956	1	8	52-56	34
1955	5	38	51-55	38
1954	9	69	50-54	40
1953	3	25	49-53	35
1952	4	31	48-52	37
1951	3	27	47-51	38
1950	6	48	46-50	43
1949	5	42	45-49	43
1948	5	35	44-48	48
1947	6	40	43-47	61
1946	7	50	42-46	72
1945	6	50	41-45	75
1944	7	63	40-44	83
1943	13	103	39-43	85
1942	10	94	38-42	82
1941	7	64	37-41	76
1940	9	90	36-40	92
1939	6	76	35-39	90
1938	7	86	34-38	84
1937	4	65		
1936	13	149		
1935	9	75		
1934	5	45		

INFECTIOUS DISEASES—Comparison 1950—1960

DISEASE	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
Small Pox	...	...	...	...	...	...	...	...	3	...	...
Scarlet Fever	1	2	2	...	2	...	3	...	...	6	8
Diphtheria	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	...	...	...	...	...	...	...	...	...	...	...
Measles ...	58	74	21	52	119	166	2	104	94	79	135
Whooping Cough	17	...	43	2	14	27	8	31	32	38	54
Pneumonia	...	...	...	1	...	5	2	1	...	4	5
Puerperal Pyrexia	1	...	...	...	...	...	...	...	...	1	...
Ophthalmia Neonatorum	1	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	1	...	...	3	1	1	2	2	1	4
Dysentery	...	...	16	...	1	...	...	5	1	...	...
Meningococcal Infection	...	1	...	...	...	...	...	...	1	1	...
Gastro Enteritis ...	...	1	...	...	...	...	...	...	...	...	...
Acute Polio-myelitis	...	...	...	...	...	1	...	1	...	...	1
Chicken Pox	...	...	...	...	...	...	...	...	10	...	...
Totals	78	79	82	55	139	200	16	150	143	130	207

INFECTIOUS DISEASES—Monthly Incidence, 1960

DISEASE	Total	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Small Pox ...													
Scarlet Fever ...	1		1										
Diphtheria ...													
Measles ...	58	1				1			1	6		14	35
Whooping Cough ...	17					14			1				2
Pneumonia ...													
Erysipelas ...													
Puerperal Pyrexia ...	1		1										
Ophthalmia Neonatorum ...	1						1						
Meningococcal Infection ...													
Chicken Pox ...													
Food Poisoning ...													
Dysentery ...													
Poliomyelitis ...													
Totals ...	78	1	2			15	1		2	6		14	37

TUBERCULOSIS

NEW CASES AND MORTALITY DURING 1960.

Age Periods	NEW CASES				DEATHS			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 5 years .....	...	...	...	...	...	...	...	...
5—14 „ .....	...	...	...	...	...	...	...	...
15—24 „	1	...	...	...	...	...	...	...
25—44 „	1	1	...	...	...	...	...	...
45—64 „ .....	...	...	...	...	...	...	...	...
65 and over .....	...	...	...	...	...	...	...	...
Age Unknown .....	...	...	...	...	...	...	...	...
Totals	2	1	0	0	0	0	0	0
	3		0		0		0	
	3				0			
Total 1959 ...	0	0	0	1	0	1	0	0
	0		1		1		0	

Public Health Inspector's Annual Report

*To the Chairman and Members of the Urban District Council
of Whitworth.*

MR. CHAIRMAN, LADY AND GENTLEMEN :

I have pleasure in presenting my second Annual Report to you which covers the year ending December 31st, 1960.

SANITARY INSPECTION OF THE AREA.

128 Preliminary or Informal Notices for the abatement of nuisances and the remedy of sanitary defects in and around dwellings were served on owners and occupiers.

SUMMARY OF INSPECTIONS.

Number of premises visited	682
Number of Sanitary Defects found	122
Number of Sanitary defects remedied.....	118
Food premises inspected	37
Factories inspected	27
Rodent Control	15
Meat Inspection	264

SANITARY DEFECTS FOUND.

Houses :

Defective Roofs	5
Defective Fire Ranges, Fixed Boilers, etc.	2
Defective Eavestroughing	3
Defective Rain Water Pipes	3

General :

Choked drainage	47
Defective Drainage	23
Defective Sanitary accommodation buildings	1
Burst water service pipes	5
Choked water closets	12
Choked waste water closets	4
Inadequate water supply	6
Perished plaster	2
Defective window frames	2
Offensive accumulations	7

122

ENVIRONMENTAL HEALTH SERVICES.

A. Sanitary Inspection of the Area.

Water Supply.

The water supply to the area is mainly satisfactory, being provided by the Rochdale Corporation, and the majority of the houses have a supply of water that is wholly sufficient and good in quality.

The water is collected from upland surface gathering grounds and afterwards treated by modern methods of filtration and chlorination.

41 samples of the public water supply and 4 samples of private supplies were taken during 1960 and submitted for bacteriological examination. All were reported satisfactory.

24 samples were submitted for chemical analysis and satisfactory reports were received.

The number of dwelling houses supplied from public mains is 2509 and 109 houses have supplies drawn from private sources.

Public Cleansing.

Household refuse is collected on a weekly basis from all the houses in the area and approximately 2,235 dustbins are emptied by two side-loading waggons. 172 dustbins were replaced during the year under the Council's scheme.

The refuse is disposed of by controlled tipping methods on the Council tip at Landgate, and for land re-clamation purposes at the rear of the Festival Park.

The collection and disposal of refuse has been satisfactory throughout the year, and because of the mild winters there has been little interruption of normal duties to deal with snow and icy roads.

Due to the increasing quantities of trade refuse a new charge has been made, based on a weekly charge of 1/- for each bin in excess of the first free one.

Several new refuse collection vehicles have been tested in the district and after careful consideration one has been ordered. The new vehicle is of the modern rear-loading type and will have a packing device to deal with the present-day bulky refuse.

A total of 29 tons 18 cwts. of waste paper was collected, baled and sold as salvage.

Details of the cost of collection and disposal of household refuse are as follows :

Loads removed	1575
Cost per load	£2 5s. 10d.
Refuse in tons (estimated)	3937
Cost per ton	18/4d.
Number of houses and premises.....	2990
Cost per house and premises per annum	£1 4s. 1d.
Average length of haul	1½ miles

Sanitary Accommodation.

The sanitary accommodation of the area is as follows:—

Fresh Water Closets.....	2139
Waste Water Closets.....	134
Pail Closets.....	57
No. of houses on the Water	
Carriage system	2699

The Pail Closets existing are situated at the following premises :—

Dwelling-houses	33
Mills and Workshops	6
Farms	7
Churches.....	11

With very few exceptions they cannot be converted to the fresh water carriage system, in view of the fact that they are situated in outlying parts where no sewer is available.

Although the Council encourage the conversion of waste water closets to the fresh water carriage system, progress is slow and there is no authority for compulsory conversion.

Referring to the sanitary accommodation generally, there are numerous blocks of houses where the occupiers of the dwellings have to walk distances of 20 or 30 yards down the street to the sanitary accommodation, this being jointly used by two or more families. Unfortunately, this state of affairs cannot be improved at the present as most of the houses concerned are either back to back or otherwise scheduled for reconditioning,.

Atmospheric Pollution.

In June, a volumetric sulphur dioxide and smoke recorder was installed at the Council Offices and has produced a daily record of some of the pollutants in the air. The readings compare favourably with those of the other local authorities in the Manchester conurbation, probably because of the winds that blow over the surrounding moors.

Because of this information, it has not yet been considered necessary to institute smoke control areas.

Consultations have taken place with industrial concerns contemplating the installation of improved equipment.

Rodent Control.

The main sewers were treated on two occasions during the year and judging by the small number of baits taken, the sewers appear to contain very few of these dangerous pests.

Two part-time men are employed for dealing with these treatments, and a charge is made for work when engaged on industrial and farm premises.

	TYPE OF PROPERTY		
	Non-Agricultural		Agricul- tural
	Dwelling Houses	All Other	
Number of properties in district	2685	529	41
Number of Properties Inspected	115	18	4
Total Inspections (incl. Re-Inspections)	226	41	12
Number of Properties found infested by:			
Rats—Major			
Minor	19	16	2
Mice—Major			
Minor	28	6	
Number of Infested properties treated	47	16	2

B. Housing.

The district has unfortunately, many sub-standard houses. There are approximately 720 houses of the back-to-back type and 170 of the back-to-earth type. Most of these are incapable of improvement and will be dealt with in slum clearance schemes.

HOUSING STATISTICS

(a) NUMBER OF NEW HOUSES ERECTED DURING THE YEAR.

	Houses	Flats
1. By the Local Authority.....	7	Nil
2. By Other Local Authorities	Nil	Nil
3. By Other Bodies or Persons	Nil	Nil

(b) UNFIT DWELLING HOUSES.

1. Inspection of Dwelling Houses during the year.

(1) (a) Total number of dwelling-houses inspected formally or informally for housing defects (under Public Health or Housing Acts)	433
(b) Number of inspections, formal or informal, made for the purpose	751
(2) Dwelling houses unfit for human habitation and not capable at reasonable expense of being rendered fit :—	
(a) Number found during year	60
(b) Number (or estimated number) at end of year.....	60
(3) Number of dwelling-houses found during the year to be not in all respects reasonably fit for human habitation but capable of being rendered fit	24

2. Houses Demolished.

In clearance areas—

(1) Houses unfit for human habitation	Nil
(2) Houses included by reason of bad arrangement, etc. ...	Nil
(3) Houses on land acquired under Section 43(2), Housing Act 1957	Nil

Not in clearance areas.

(4) As a result of formal or informal procedure under Section 17 (1) Housing Act 1937	18
---	----

3. Unfit Houses Closed.

(1) Under Section 16(4), 17(1) and 35(1) Housing Act 1957.....	7
(2) Under Section 17(3) and 26 Housing Act 1957	Nil
(3) Parts of building closed under Section 18 Housing Act 1957	Nil

4. Unfit houses made fit and houses in which defects were remedied.

	By Owner	By L.A.
(1) After informal action by Local Authority	79	—
(2) After formal notice under (a) Public Health Acts (b) Housing Act, 1957	—	23
(3) Under Section 24, 9 and 16 Housing Act 1957 ...	—	—

5. Unfit houses in temporary use (Housing Act 1957)

Position at end of year.

(1) Retained for temporary accommodation.	
(a) Under Section 48	Nil
(b) Under Section 17(2)	Nil
(c) Under Section 46	Nil
(2) Licensed for temporary occupation under Section 34 or 53	Nil

6. Purchase of houses by agreement.

Houses in clearance areas other than those included in confirmed clearance orders or compulsory purchase orders, purchased during the year Nil

7. Housing Act 1949 and Housing (Financial Provisions) Act 1958—
Improvement Grants, etc.

Action during year.

	Private bodies or Individuals		Local Authority	
	No. of Schemes	No. of Dwelling Houses or other Buildings affected	No. of Schemes	No. of Dwelling Houses or other Buildings affected
(a) Submitted by private individuals to local authority	8	12	—	—
(b) Approved by local authority	7	10	—	—
(c) Submitted by local authority to Ministry	1	2	—	—
(d) Finally approved by Ministry	—	—	—	—
(e) Work completed	6	8	—	—
(f) Additional Separate dwellings included in (d) above.	—	—	—	—

(g) Any other action taken under the Act. Nil

8. House Purchase and Housing Act, 1959— Standard Grants. Action during year:	No. of dwellings or other buildings affected
(a) Applications submitted to local authority ...	24
Applications approved by local authority ...	22
Work completed	21

C. Meat and Food Inspection.

Slaughterhouses Act, 1954.

Food and Drugs Act, 1957.

Memo 3. Meat.

During the year all the animals slaughtered at the slaughter houses in the district have been examined. Particulars of carcasses inspected and amounts condemned are shown below.

CARCASSES INSPECTED AND CONDEMNED.

	Cattle exclud'g Cows	Cows	Calves	Sheep and Lambs	Pigs	Horses
Number killed.....	328	82	25	672	101	—
Number inspected	328	82	25	672	101	—
ALL DISEASES EXCEPT TUBERCULOSIS AND CYSTICERCI.						
Whole carcass condemned ...	—	—	—	—	—	—
Carcass of which some part or organ was condemned ...	11	4	—	2	—	—
Percentage of number inspected	3.4	4.9	—	0.3	—	—
TUBERCULOSIS ONLY.						
Whole carcass condemned ...	1	—	—	—	—	—
Carcass of which some part or organ was condemned	4	—	—	—	—	—
Percentage of number inspected affected with Tuberculosis...	1.5	—	—	—	—	—
CYSTICEROSIS.						
Carcasses of which some part or organ was condemned ...	1	—	—	—	—	—
Carcass submitted to treat- ment by refrigeration	1	—	—	—	—	—
Generalised and totally con- demned	—	—	—	—	—	—

WEIGHT OF CARCASSES AND ORGANS FOUND TO BE UNFIT FOR HUMAN CONSUMPTION.

All diseases except Tuberculosis	285 lbs.
Tuberculosis only	481 lbs.
Total	766 lbs.

Slaughterhouses

There are four private slaughterhouses licenced in the district and regular inspections are carried out. The premises are maintained and conducted in a satisfactory manner.

The majority of the animals slaughtered in the district are for consumption in the district.

Slaughtermen's Licences.

During the year 9 persons were licensed as slaughtermen.

— Milk and Dairies Regulations, 1949—1954.

— Milk Supply.

— Only special designated milk is sold in the area and samples are taken at the depot in whose district they are situated.

— Throughout the district there are 40 shops other than dairies registered distributors of bottled milk.

— Ice Cream.

— Routine visits were made during the year to the premises in the district dealing in ice cream. A large amount of the ice cream sold is now pre-packed.

Food and Drugs Acts, 1938 to 1957.

The provision of the above Acts, so far as they relate to the sampling of food for nature, substance and quality are administered by the Lancashire County Council in co-operation with the Local Authority.

A total of 39 samples were obtained, of these 26 were of milk (this total includes 2 Channel Island milk) and the 13 others comprised:—

1 Potted meat.	1 Lard
3 Mineral water.	1 Flour.
1 Milk, condensed, full cream, sweetened.	2 Beef sausage.
1 Buttered rum truffles.	1 Throat tablets.
1 stomach tablets.	1 Breakfast oats.

With the exception of the three samples detailed below all were reported by the County Analyst to be genuine.:—

<i>Type</i>	<i>Results of Analysis</i>	<i>Action Taken</i>
1 Potted Meat.	Contained 42% meat and 50% excess water. Appearance of a meat brawn and should not be sold as potted meat.	Vendor interviewed.
1 Beef Sausage.	Contained 260 parts per million of sulphite preservative, expressed as sulphur dioxide (without declaration).	Vendor interviewed.
1 Beef Sausage.	Contained 75 parts per million of sulphite preservative, expressed as sulphur dioxide (without declaration).	Vendor interviewed.

Food Shops.

There are 114 premises from which food is sold in the district.

General Grocers and Provision Dealers	40
Greengrocers and Fruiterers (inc. Wet Fish)	9
Meat Shops	10
Bakers and Confectioners	10
Fried Fish Shops	9
Sugar Confectionery, Minerals, Ice Cream, etc.	8
Licensed Premises, Clubs, etc.	28

Food Inspection.

4 visits were made during the year to inspect foodstuffs at various premises and condemnation certificates were issued for the following:—

Tinned Ham	14 lbs.
Tinned Peas	23 lbs.

**PRESCRIBED PARTICULARS ON THE
ADMINISTRATION OF THE FACTORIES ACT, 1937 & 1948**

**PART I OF THE ACT—1—INSPECTION OF FACTORIES
INCLUDING INSPECTIONS MADE BY PUBLIC HEALTH INSPECTOR**

Premises (1)	Number of		
	Inspections (2)	Written Notices (3)	Occupiers prosecuted (4)
SECTION I: Factories in which Sections I, II, III, IV and VI are to be enforced by Local Authorities ...	8	1	...
SECTION II: Factories not included in (I) in which Section VII is enforced by the Local Authority ...	19	3	...
SECTION III: Other premises in which Section VII is enforced by the Local Authority (excluding out-workers' premises) ...	...	...	...
Total ...	27	4	...

2—CASES IN WHICH DEFECTS WERE FOUND

Particulars (1)	Number of defects			Number of offences in respect of which prosecutions were instituted (5)
	Found (2)	Remedied (3)	Referred by H.M. Inspector (4)	
Want of cleanliness ...	...	...	...	...
Overcrowding ...	...	...	...	...
Unreasonable temperature ...	...	...	...	...
Ineffective drainage of floors ...	...	...	...	...
Sanitary Accommodation:				
insufficient ...	2	2	2	...
unsuitable or defective ...	1	1	1	...
inadequate ventilation ...	...	...	...	...
want of cleanliness ...	1	1	1	...
not separate for sexes ...	...	...	...	...
Other Offences against the Act ...	...	...	...	...
Total ...	4	4	4	...

PART VIII OF THE ACT—OUTWORKERS : Nil

Sewage Works.

The Sewage Works have been operating with greater efficiency, and with one exception, all samples of effluent have been reported as satisfactory by the Mersey River Board.

Alterations in levels due to the modernisation scheme had caused the allocator to the distributors to be inoperative, and probably accounted for the unsatisfactory sample. The allocator was made operative by temporary means, pending the installation of new, specially constructed apparatus.

I wish to express my thanks for the assistance given to me by your other officials, and the constant support and encouragement received from the Chairman and Members of the Health Committee.

Yours faithfully,

H. L. FIELD,
Public Health Inspector.

SEWERAGE WORKS TO BE RAISED TO A LEVEL OF 100 FT. ABOVE SEA LEVEL. The Sewerage Works have been operating with greater efficiency and with one exception all samples of effluent have been reported as satisfactory by the Mersey River Board.

Alterations in level due to the modernisation scheme had caused the effluent to the distributors to be inoperative, and probably accounted for the unsatisfactory sample. The effluent was made operative by temporary means, pending the installation of new specially constructed apparatus.

I wish to express my thanks for the assistance given to me by your other officials, and the constant support and encouragement received from the Chairman and Members of the Health Committee.

Yours faithfully,

H. B. FIELD

Public Health Officer

TABLE SHOWING THE RESULTS OF ANALYSES OF EFFLUENT

Description of Sample	Number of Analyses		Returned by Mersey River Board	Number of Samples Satisfactory
	Total	Returned		
Water of effluent				
Chemical oxygen demand				
Temperature				
Amount of suspended matter				
Biological oxygen demand				
Ammonia				
Phosphorus				
Other				
Total				

