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THORNTON CLEVELEYS  
URBAN DISTRICT COUNCIL

ANNUAL REPORT  
OF THE  
MEDICAL OFFICER OF HEALTH  
AND  
CHIEF PUBLIC HEALTH INSPECTOR  
FOR THE YEAR  
**1964**







THORNTON CLEVELEYS  
URBAN DISTRICT COUNCIL  
ANNUAL REPORT  
OF THE  
MEDICAL OFFICER OF HEALTH  
AND  
CHIEF PUBLIC HEALTH INSPECTOR  
FOR THE YEAR  
**1964**

CHAIRMAN OF THE COUNCIL:

COUNCILLOR MISS M. PORTER, J.P.





THORNTON TESTER  
LEBAN DISTRICT COURT  
ANNUAL REPORT  
OF THE  
MEDICAL OFFICER OF HEALTH  
AND  
CHIEF PUBLIC HEALTH INSPECTOR  
FOR THE YEAR  
1964

THORNTON CLEVELEYS  
URBAN DISTRICT COUNCIL

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HEALTH COMMITTEE - 1964

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CHAIRMAN:

Councillor MISS E. PORTER, J.P., M.R.S.H.

VICE-CHAIRMAN:

Councillor A. FEENEY.

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Councillor C. R. ASHWORTH.

Councillor E. M. FAIL.

Councillor J. H. GROUT.

Councillor MRS F. HULL, J.P.

Councillor MRS L. LE JEUNE.

Councillor F. PARKINS.

Councillor T. WARD.

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CHAIRMAN OF THE COUNCIL:

COUNCILLOR MISS E. PORTER, J.P.

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PUBLIC HEALTH OFFICERS

MEDICAL OFFICER OF HEALTH:

CHARLES ROBERTSON WILSON, M.B., Ch.B., D.P.H.

CHIEF PUBLIC HEALTH INSPECTOR  
AND CLEANSING OFFICER:

ARTHUR EDWARD BARNES, M.R.S.H., M.P.H.I.A., M.I.P.C.  
(Certified Meat and Food Inspector).

DEPUTY CHIEF PUBLIC HEALTH INSPECTOR:

KENNETH ERNEST EMERY, M.R.S.H., M.P.H.I.A.  
Food Hygiene Diploma - Royal Society of Health.  
(Certified Meat and Food Inspector).

-----  
S T A F F:

TECHNICAL:

PUBLIC HEALTH INSPECTOR:

EDWARD LYLE COBB, Cert. P.H.I.E.B.  
(Commenced 1st June, 1964)  
(Certified Meat and Food Inspector).

PUPIL PUBLIC HEALTH INSPECTOR:

ARNOLD EARL PORTER.  
(Commenced 1st April, 1964)

CLERICAL:

CHIEF CLERK:

MISS S. A. SIMCOCK.

CLERK:

MISS B. A. EDMONDSON.  
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3.

MEDICAL OFFICER'S REPORT.

Council Offices,  
THORNTON CLEVELEYS.

To the Chairman and Members of the  
Thornton Cleveleys Urban District Council.

Madam Chairman, Ladies and Gentlemen,

I have the honour to present the Annual Report of the Medical Officer of Health for the year 1964.

During the year the Birth Rate showed a slight increase, the Death Rate remaining stationary.

No maternal deaths occurred and there was quite a material decrease in the Infant Mortality Rate - (18.5 to 11.2). Three of the four infant deaths involved, occurred within the first week of life and the fourth within the first month. Congenital malformation was the cause of one of these. It will be seen (Page 12) that the ages at death keep high. This is generally a healthy district and the average age at death keeps in the seventies. The same page shows the main causes of death to be what one might expect in the higher age groups. Two deaths occurred from road accidents and two from misadventure, due to gas poisoning. The circumstances surrounding these latter are unknown to me.

Measles, Whooping Cough and Scarlet Fever were the main infections notified, but none in anything approaching epidemic numbers. A young man admitted to hospital in Blackpool was diagnosed as Para-Typhoid Fever. The notification would go to Blackpool. This case involved a cafe in our area and a temporary closure order had to be imposed for investigation of staff and premises. The "All Clear" was possible in about ten days and no more cases involved.

As this will be my last report to you as your Medical Officer, may I express to you, Madam Chairman, Committee Members, and the Staff of the Health Department, my very sincere thanks for the cordial and happy relationships I have enjoyed and in the case of my colleagues in the department, the ever ready help and co-operation I have received.

Yours faithfully,

C. ROBERTSON WILSON.

Medical Officer of Health.



VITAL STATISTICS.

Home Population(Registrar-General's Estimate, mid-1964).....			22,020
<u>LIVE BIRTHS:</u>	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Legitimate.....	198	142	340
Illegitimate.....	11	5	16
	<u>209</u>	<u>147</u>	<u>356</u>
Live Birth Rates per 1,000 of Population:-			
Crude Rate.....			16. 2
Adjusted Rate.....			19. 4
Illegitimate live births per cent of total live births.....			4. 5
<u>DEATHS(ALL CAUSES):</u>	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Number registered.....	194	198	392
Death Rate per 1,000 of Population:			
Crude Rate.....			17. 8
Adjusted Rate.....			13. 5
<u>STILLBIRTHS:</u>	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Legitimate.....	1	4	5
Illegitimate.....	-	-	-
	<u>1</u>	<u>4</u>	<u>5</u>
Rate per 1,000 total births.....			13. 9
<u>MATERNAL MORTALITY:</u>			
Number of deaths registered.....			Nil
Maternal Mortality Rate per 1,000 Total Births.....			Nil
<u>INFANT MORTALITY:</u>	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Number of deaths registered(under 1 year)..			
Legitimate.....	3	1	4
Illegitimate.....	-	-	-
	<u>3</u>	<u>1</u>	<u>4</u>
Rate per 1,000 Live Births.....			11. 2
Rate per 1,000 Live Births(Legitimate).....			11. 2
Rate per 1,000 Live Births(Illegitimate)...			- -
<u>NEO-NATAL:</u>	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Number of deaths registered(under 4 weeks).			
Legitimate.....	3	1	4
Illegitimate.....	-	-	-
	<u>3</u>	<u>1</u>	<u>4</u>
Rate per 1,000 Live Births.....			11. 2
Number of deaths registered(under 1 week)..	<u>M.</u>	<u>F.</u>	<u>Total.</u>
Legitimate.....	3	-	3
Illegitimate.....	-	-	-
	<u>3</u>	<u>-</u>	<u>3</u>
Rate per 1,000 Live Births.....			8. 4
Perinatal mortality rate per 1,000 total births...			22. 2



# VITAL STATISTICS - CONTINUED.

	PER 1,000 OF ESTIMATED POPULATION.					Maternal Mortality Rate.	Infantile Mortality Rate.
	Live Birth Rate (Crude).	Crude Death Rate.	Death Rate from Tuberculosis of respiratory system.	Death Rate from Cancer.	Per 1,000 Live Births.		
MEAN OF 5 YEARS:							
1959-1963.	14.7	16.5	0.10	2.94	Nil.	Per 1,000 Live Births.	18.58
1963.	15.3	17.9	0.09	3.48	Nil.		18.50
1964.	16.2	17.8	0.05	2.94	Nil.		11.20
INCREASE OR DECREASE IN 1964 ON 5 YEARS' AVERAGE:							
1959-1963.	+ 1.5	+ 1.3	- 0.05	- 0.13	Nil.		- 7.38
ON PREVIOUS YEAR:							
1963.	+ 0.9	- 0.1	- 0.04	- 0.54	Nil.		- 7.30

1964 - Adjusted Birth Rate(Comparability factor 1.20) = 19.4  
 1964 - Adjusted Death Rate(Comparability factor 0.76) = 13.5

## BIRTH, DEATH & INFANTILE MORTALITY RATES(ADJUSTED):

Year.	Birth Rate.	General Death Rate.	Infantile Mortality Rate.
1959.	15.9	15.8	19
1960.	15.0	14.4	19
1961.	15.0	15.2	26
1962.	14.4	16.0	10
1963.	18.3	13.6	18
1964.	19.4	13.5	11



STATISTICAL SUMMARY.

Area in statute acres.....	3,355
Population(1963 Census).....	21,250
Population(Estimated mid-1964).....	22,020
Density of Population per acre.....	6.5
Estimated number of inhabited houses(December, 1964)..	8,766
Average number of persons per house.....	2.5
Rateable Value.....	£1,246,454
Sum represented by a Penny Rate.....	£4,880
Live Births.....	356
Live Birth rate per 1,000 Population(adjusted).....	19.4
Still Births.....	5
Still Birth Rate per 1,000 live and still births.....	13.9
Total live and still births.....	361
Total Deaths.....	392
Death Rate per 1,000 population(adjusted).....	13.5
Infant deaths(under 1 year).....	4
Infant mortality rate per 1,000 live births(total)....	11.2
Infant mortality rate per 1,000 live births (legitimate).....	11.2
Infant mortality rate per 1,000 live births (illegitimate).....	Nil
Neo-Natal mortality rate per 1,000 live births (first 4 weeks).....	11.2
Early neo-natal mortality rate per 1,000 live births..	8.4
Perinatal mortality rate per 1,000 total births.....	22.2
Illegitimate live births per cent of total live births	4.5
Maternal deaths(including abortion).....	Nil
Maternal mortality rate per 1,000 live and still births.....	Nil
Respiratory Tuberculosis Rate per 1,000 Population....	0.05
Cancer Death Rate(Malignant Neoplasm).....	2.94
Influenza Death Rate.....	Nil
Pneumonia(all forms)death rate.....	0.45
Other Respiratory diseases(all forms).....	0.04

LOCAL ACTS IN FORCE IN THE DISTRICT  
DEALING WITH SANITARY ADMINISTRATION.

Thornton Urban District Council Act.....	31st July, 1923
Thornton Cleveleys Improvement Act.....	31st July, 1936
Lancashire County Council(General Powers)Act.....	1951

BYE-LAWS.

New Streetsand Buildings.....	1926 & 1937
Building Bye-Laws(Public Health Act, 1936).....	1954
Pleasure Grounds.....	1938
Bye-Laws under Sec.15 Food & Drugs Act, 1938.....	1950
Bye-Laws under Sec. 81 Public Health Act, 1936.....	1951
Bye-Laws under Sec.61 Public Health Act, 1936 & Sec. 24 Clean Air Act, 1956.....	1959



PHYSICAL FEATURES AND GENERAL  
CHARACTER OF THE DISTRICT.

By the Lancashire (Central and Western Areas) Review Order, 1934, a part of the Township of Carleton, containing 354 acres, was added to the Urban District on the 1st April, 1934. The district is bounded on the West by the Irish Sea; on the East by the River Wyre; on the North by the Borough of Fleetwood and on the South by the County Borough of Blackpool.

GEOLOGY.

The general sub-soil of the district is clay which is overlaid with a thick layer of alluvial deposit (blue silt), varying in thickness from four to eight feet. On top of this is a thin layer (about four inches) of peaty matter. This was found in considerable thickness in Butts Road, (North Ward) and also in Fleetwood Road (East Ward). On top of this again is a layer of sandy soil or a mixture of soil and clay, varying in thickness from two and a half feet to four feet. The surface covering is about six inches in thickness. From above downward we get: (1) surface covering, (2) mixture of soil and clay or sandy soil, (3) peat, (4) silt, (5) boulder clay.

CLIMATE.

The prevailing wind is a westerly sea breeze and together with the usually mild winters, produces a temperate and very bracing climate.

AREA AND DETAILS OF POPULATION.

As previously mentioned, the area of Thornton Cleveleys was increased by the inclusion of a part of the Parish of Carleton, on the 1st April, 1934, the total area now being given as 3,355 acres.

The average number of persons per acre is 6.5

(4)	Tuberculosis - Pulmonary.....	8.05
(5)	Tuberculosis - Non-Pulmonary.....	1.11
(6)	Malignant Neoplasm - (Cancer).....	2.94



WARD BOUNDARIES.

The Ward Boundaries were altered during 1963 and two new Wards were formed, namely North Central and South Central. The new Wards are now as follows:-

- NORTH WARD - The number of houses in North Ward is 1,549.
- NORTH C. WARD - The number of houses in North Central Ward is 1,347.
- SOUTH WARD - The number of houses in South Ward is 1,441.
- SOUTH C. WARD - The number of houses in South Central Ward is 1,509.
- EAST WARD - The number of houses in East Ward is 1,475.
- WEST WARD - The number of houses in West Ward is 1,445.

SOCIAL CONDITIONS, INDUSTRIES, ETC.

During the last few years, the Cleveleys portion of the district has rapidly developed as a seaside holiday resort and with the additional amenities now provided, together with the activities of private builders, the district as a whole has greatly benefited.

The largest employers of labour within the district are the Imperial Chemical Industries, Ltd., who have large chemical and plastic Works on the Northern boundary. There is still a large portion of the district devoted to agriculture. Many people are employed at the Offices of the Ministry of Health, Pensions and National Insurance which are situated in our area.

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VITAL STATISTICS.

Population at Census 1963.....	21,250
Population mid-1964. (Registrar-General).....	22,020
Number of inhabited houses at 31st December, 1964..	8,766
Average number of persons per house.....	2.5

BIRTHS.

During the year 356 births were recorded by the Registrar-General, comprising 209 males and 147 females.

Birth Rate for district(adjusted):19.4 per 1,000 as against 18.3 for 1963.

Still-births:13.9 per 1,000(live and still)births.

DEATHS.

Based on a population of 22,020, the Registrar-General gives the Death Rate(adjusted)as 13.5 compared with 13.6 for 1963.

The allocation to the various Wards of the district (after excluding transferable deaths and including local residents dying outside the district)is as follows:-

<u>Ward.</u>	<u>Males.</u>	<u>Females.</u>	<u>Total.</u>
North.	38	28	66
North C.	36	41	77
South.	24	24	48
South C.	33	37	70
East.	28	26	54
West.	35	42	77
	<hr/>	<hr/>	<hr/>
	194	198	392

DEATH RATE PER 1,000 OF POPULATION FOR:

(1)	Influenza.....	Nil
(2)	Other Respiratory Diseases(all forms).....	0.04
(3)	Pneumonia(all forms).....	0.45
(4)	Tuberculosis - Pulmonary.....	0.05
(5)	Tuberculosis - Non-Pulmonary.....	Nil
(6)	Malignant Neoplasm - (Cancer) .....	2.94

INQUESTS AND INQUIRIES.

During the year there were 31 Inquests and Inquiries on persons dying in this area, as follows:-

NORTH WARD:Years:

1. Female.	77	Asphyxia - due to inhalation of regurgitated food.
2. Male.	61	Coronary Occlusion.
3. Male.	70	Coronary Occlusion.
4. Male.	60	Coronary Thrombosis.
5. Male.	50	Misadventure - Gas Poisoning.
6. Male.	46	Misadventure - Gas Poisoning.
7. Female.	71	Haemopericardium. Rupture of myocardial infarct. Coronary Thrombosis.
8. Male.	75	Suicide - overdose of capsules.

NORTH CENTRAL WARD:Years:

9. Male.	71	Coronary Occlusion.
10. Female.	91	Accidental death - knocked down by Motor Car.
11. Female.	63	Pulmonary Embolism - Cancer Lung.
12. Female.	86	Cerebral Haemorrhage.

SOUTH WARD:Years:

13. Male.	66	Coronary Occlusion.
14. Male.	14	Misadventure - Road accident.

SOUTH CENTRAL WARD:Years:

15. Male.	67	Fatal Haemoptysis.
16. Male.	65	Coronary Occlusion.
17. Male.	63	Coronary Thrombosis.



INQUESTS AND INQUIRIES.  
(Continued).

EAST WARD:Years:

18.	Male.	48	Coronary Occlusion.
19.	Female.	82	Hypostatic Pneumonia, due to debility, due to Cancer of left breast.
20.	Male.	77	Cardiac Tamponade, due to haemorrhage into the pericardium from a dis- secting aneurysm.
21.	Male.	67	Pulmonary Embolus.

WEST WARD:Years:

22.	Male.	69	Rupture of the abdominal aorta.
23.	Female.	73	Coronary Occlusion.
24.	Female.	65	Calcific Mitral Stenosis.
25.	Male.	73	Coronary Occlusion.
26.	Male.	55	Coronary Occlusion.
27.	Male.	82	Coronary Occlusion.
28.	Male.	65	Left ventricular failure due to Coronary Occlusion.
29.	Male.	33	Coronary Thrombosis.
30.	Male.	64	Coronary Occlusion, Bronchitis.
31.	Male.	76	Coronary Thrombosis.



## 12.

AGES AT DEATH.

	<u>Males.</u>	<u>Females.</u>	<u>Total.</u>
Under 1 week... ..	3	-	3
1 week - 6 months.. ..	-	1	1
6 months - 12 months... ..	-	-	-
<b>TOTAL UNDER 1 YEAR.. ..</b>	<b>3</b>	<b>1</b>	<b>4</b>
1 - 5 years. ....	-	-	-
<b>TOTAL UNDER 5 YEARS. ....</b>	<b>3</b>	<b>1</b>	<b>4</b>
5 - 15 years. ....	1	-	1
15 - 25 years. ....	1	-	1
25 - 45 years. ....	5	3	8
45 - 65 years. ....	47	33	80
65 years and over.. ..	137	161	298
<b>ALL AGES - TOTAL:.. ..</b>	<b>194</b>	<b>198</b>	<b>392</b>

CAUSES OF DEATH.

	<u>Males.</u>	<u>Females.</u>	<u>Total.</u>
Tuberculosis - Respiratory. ....	1	-	1
Malignant Neoplasm, stomach ... ..	6	2	8
Malignant Neoplasm, Lung, Bronchus. ....	12	5	17
Malignant Neoplasm, breast. ....	1	11	12
Malignant Neoplasm, uterus. ....	-	2	2
Other Malignant & Lymphatic Neoplasms..	20	18	38
Diabetes... ..	-	3	3
Vascular lesions of nervous system. ....	23	33	56
Coronary disease, angina... ..	44	24	68
Hypertension with heart disease ... ..	2	5	7
Other heart disease ... ..	30	50	80
Other circulatory disease.. ..	9	6	15
Pneumonia.. ..	6	4	10
Bronchitis. ....	17	5	22
Other diseases of Respiratory system...	-	1	1
Ulcer of Stomach and Duedenum.. ..	4	-	4
Gastritis, Enteritis and Diarrhoea. ....	2	1	3
Nephritis and Nephrosis ... ..	-	1	1
Hyperplasia of prostate ... ..	1	-	1
Congenital malformations... ..	-	1	1
Other defined and ill-defined diseases.	9	18	27
Motor Vehicle accidnets ... ..	5	3	8
All other accidents ... ..	-	5	5
Suicide ... ..	2	-	2
<b>ALL CAUSES - TOTAL: ... ..</b>	<b>194</b>	<b>198</b>	<b>392</b>



INFECTIOUS DISEASE.

There were 252 cases of Infectious Disease notified during the year, as against 121 cases during 1963 and were as follows:-

	<u>Total cases notified:</u>
Measles... ..	81
Chicken Pox... ..	88
Scarlet Fever. ....	45
Whooping Cough ... ..	27
Pulmonary Tuberculosis ...	3
Non-Pulmonary Tuberculosis	1
Food Poisoning ... ..	1
Dysentery. ....	1
Erysipelas ... ..	1
	<hr/>
	248

The distribution in relation to the various Wards of the district is as follows:-

	<u>N.</u>	<u>NC.</u>	<u>S.</u>	<u>SC.</u>	<u>E.</u>	<u>W.</u>	<u>T.</u>
Measles... ..	11	10	22	9	26	3	81
Chicken Pox... ..	37	12	16	13	2	8	88
Scarlet Fever. ....	21	6	6	5	7	-	45
Whooping Cough ... ..	10	1	7	1	8	-	27
Pulmonary Tuberculosis ...	1	-	-	1	-	1	3
Non-Pulmonary Tuberculosis	-	-	-	-	1	-	1
Food Poisoning ... ..	-	-	-	-	1	-	1
Dysentery. ....	-	-	-	-	1	-	1
Erysipelas ... ..	-	-	-	1	-	-	1
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	80	29	51	30	46	12	248

FOOD POISONING OUTBREAKS.

No. of Cases.	No. of Deaths.	Organisms or other agents responsible.	Foods involved.
1	-	Clostridium Welchii.	Not known.



# C A S E S N O T I F I E D

## A G E P E R I O D S

DISEASE:	Under 1 Year	1-2	2-3	3-4	4-5	5-10	10- 15	15- 20	20- 35	35- 45	45- 65	Over 65	T O T A L
Measles.	2	6	6	13	16	37	-	1	-	-	-	-	81
Chicken Pox.	2	1	6	7	10	55	5	1	-	-	1	-	88
Scarlet Fever.	-	1	1	7	1	29	2	2	1	1	-	-	45
Whooping Cough.	2	1	1	3	2	16	2	-	-	-	-	-	27
Pulmonary Tuberculosis.	-	-	-	-	-	-	-	-	-	1	2	-	3
Non-Pulmonary Tuberculosis.	-	-	-	-	-	-	-	1	-	-	-	-	1
Food Poisoning.	-	-	-	-	-	-	-	1	-	-	-	-	1
Dysentery.	-	-	-	-	-	1	-	-	-	-	-	-	1
Erysipelas.	-	-	-	-	-	-	-	-	-	-	1	-	1
TOTAL:	6	9	14	30	29	138	9	6	1	2	4	-	248

C A S E S N O T I F I E D

The following Table shows the number of cases and the Months in which they were notified.

DISEASE:	JAN.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Measles.	3	5	-	1	1	-	4	4	4	4	9	46	81
Chicken Pox.	12	4	18	34	2	-	-	-	1	1	4	12	88
Scarlet Fever.	-	-	1	-	3	18	5	2	-	2	11	3	45
Whooping Cough.	-	-	-	-	-	3	15	4	-	-	5	-	27
Pulmonary Tuberculosis.	-	3	-	-	-	-	-	-	-	-	-	-	3
Non-Pulmonary Tuberculosis.	-	-	-	-	-	-	-	-	-	1	-	-	1
Food Poisoning.	-	-	-	-	-	1	-	-	-	-	-	-	1
Dysentery.	-	-	-	-	-	-	-	-	-	1	-	-	1
Erysipelas.	-	-	-	1	-	-	-	-	-	-	-	-	1
TOTAL:	15	12	19	36	6	22	24	10	5	9	29	61	248



T U B E R C U L O S I S

The following Table shows the age periods of the cases notified and deaths which have occurred.

AGE GROUPS	NEW CASES:				DEATHS:			
	PULMONARY.		NON-PULMONARY.		PULMONARY.		NON-PULMONARY.	
	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES
1 - 5 yrs.	-	-	-	-	-	-	-	-
5 - 10 yrs.	-	-	-	-	-	-	-	-
10 - 15 yrs.	-	-	-	-	-	-	-	-
15 - 20 yrs.	-	-	1	-	-	-	-	-
20 - 25 yrs.	-	-	-	-	-	-	-	-
25 - 35 yrs.	-	-	-	-	-	-	-	-
35 - 45 yrs.	1	-	-	-	-	-	-	-
45 - 55 yrs.	-	-	-	-	-	-	-	-
55 - 65 yrs.	2	-	-	-	-	-	-	-
65 yrs. & over.	-	-	-	-	-	-	-	-
Age unknown.	-	-	-	-	-	-	-	-
TOTAL:	3	-	1	-	-	-	-	-



ANNUAL REPORT OF THE CHIEF PUBLIC HEALTH INSPECTOR.TO THE CHAIRMAN AND MEMBERS OF THE  
THORNTON CLEVELEYS URBAN DISTRICT COUNCIL.

Madam Chairman, Ladies and Gentlemen,

I have pleasure in submitting my Annual Report on the Public Health and Cleansing department for the year 1964.

The year saw the implementation of a very important piece of legislation - The Offices, Shops and Railway Premises Act, 1963. Due to the increased work this Act involved and to the ever increasing growth of the district, a second Additional Public Health Inspector was appointed and commenced his duties on the 1st June, 1964.

During the year much attention was given to the improvement of sub-standard houses and the number of Standard Grants approved by the local authority, was much higher than in previous years. The owners of a large housing estate co-operated with the local authority and an improvement scheme was put into operation whereby all the houses are to be provided with the five standard amenities.

The high standard of hygiene in food premises in the area continues and the number of visits made to such premises is higher than previous years.

The weekly refuse collection service was maintained with increasing difficulties as the growth of the district continued. It is possible that next year the weekly collection will be well nigh impossible to maintain without alteration to the existing labour force or number of vehicles. The refuse disposal continues at the River Wyre foreshore and by next year all the land will have been reclaimed and grass seeded over.

In conclusion, I wish to accord my thanks to the Chairman and Members of the Health Committee for their helpful co-operation and continued interest in all public health matters concerning the welfare of the district.

I tender my grateful thanks to the administrative and technical staff for their loyalty and support during the year.

I am,

Madam Chairman, Ladies and Gentlemen,

Yours faithfully,

A. E. BARNES.

Chief Public Health Inspector and Cleansing Officer.



SANITARY CIRCUMSTANCES IN THE AREA.WATER SUPPLY.

The district is supplied by the Fylde Water Board, the water being of good quality, pleasantly soft and of a peaty nature. Only one outlying house depends on well water.

Four samples of water were taken by this department from the mains supply; two were submitted for bacteriological examination and two for chemical analysis. The four samples were satisfactory.

Seventeen samples of mains water were taken by the Fylde Water Board and the following information has been supplied by them.

No. of samples taken...	17
No. free from Coliform organism ...	17
% satisfactory...	100

Aerobic micro-organisms growing in Yeastral Agar:

No. of colonies per ml. of sample -

In 2 days @ 37°C..	1
In 3 days @ 22°C..	3

No complaints were received during the year with respect to the water supply.

From information received from the Fylde Water Board, the fluoride content of all the water supplied is less than 0.1 p.p.m. as F.

Statistics:

Total number of houses supplied by Fylde Water Board...8,765

Total number of houses dependent upon well water... 1

8,766

The only house in the district dependent upon well water is remote from any mains supply and it would be impossible, except at exorbitant cost, to have it connected to the mains supply.



TYPICAL CHEMICAL ANALYSIS OF THE FYLDE WATER SUPPLY.

	<u>Summer supply.</u>	<u>Winter supply.</u>
Appearance.	Clear & Bright	Clear & Bright
Colour (Hazen p.p.m. Pt)	5	5
Turbidity (p.p.m. Silica)	Nil	Nil
Odour	Nil	Nil
Taste	Normal	Normal
Reaction pH Value	7.3	7.6
Residual Chlorine	0.05	0.05
Free & Saline Ammonia as N <sub>2</sub>	0.11	0.14
Albuminoid Ammonia as N <sub>2</sub>	0.08	0.09
Nitrous Nitrogen as N <sub>2</sub>	Nil	Nil
Nitric Nitrogen as N <sub>2</sub>	0.60	0.25
Oxygen absorbed 4 hrs @ 27°C	0.45	0.75
Free Acidity as CO <sub>2</sub>	Less than 5	Less than 5
Carbonate Hardness as CaCO <sub>3</sub>	66	22
Total Hardness as CaCO <sub>3</sub>	88	44
Non-carbonate Hardness as CaCO <sub>3</sub>	22	22
Excess Alkalinity as Na <sub>2</sub> CO <sub>3</sub>	Nil	Nil
Calcium as CaCO <sub>3</sub>	73	37
Magnesium as CaCO <sub>3</sub>	15	7
Total Solids dried at 180°C	135	90
Chloride as Cl	14	10
Sulphate as SO <sub>4</sub>	19	20
Lead as Pb	Nil	Nil
Manganese as Mn	0.02	0.02
Copper as Cu	Nil	Nil
Iron as Fe	0.18	0.07
Aluminium as Al <sub>2</sub> O <sub>3</sub>	0.13	0.20
Fluoride as F	Less than 0.1	Less than 0.1



DRAINAGE AND SEWERAGE.

Owing to the flat nature of the district, a system of electrical pumps and ejectors worked by compressed air, is in operation.

The sewage is discharged near dead low water mark into the sea. No extensive additions were made to the sewers during the year but additions were made to drain new housing estates.

The question of adequacy or inadequacy of the sewage system in the area is now receiving the attention of the Council working with Consultants.

Statistics.

Dwelling houses using water carriage system...	8,753
Dwelling-houses using privy middens...	1
Dwelling houses using pail closets ...	11
Dwelling houses dependent upon well water. ...	1
	<u>8,766</u>

CONVERSIONS DURING YEAR.

There were no conversions during the year. The sewers need to be extended before it is possible for further conversions to take place. There are twelve houses without modern sanitary accommodation and these are mostly farms or outlying cottages and to which no sewers are yet available. There is still one privy midden which has not been converted to a pail closet but this is under consideration by the owner.

DRAINAGE.

There are some premises in the district which are not connected to the Council's sewers, but which have septic tanks and filters, some of which discharge to adjacent watercourses. Some of these are not satisfactory but are mostly in districts where no sewers are available.

Improvements obtained as a result of action by the Department.

Drains cleansed from obstruction..	392
Sink waste pipe made to discharge over a proper gully. ...	1
Provision of new man-hole cover and frame. ...	1
Defective W.C. flushing cistern renewed...	1
Defective pipes replaced..	2
New drainage system provided..	1

The department employs a man part-time on drainage work, the cost of clearing and cleansing the blocked drains being borne by the owner or occupier. This service to the public is much appreciated and also helps in the efficient working of the department. Preparation and service of notices is thus avoided unless the blockage is due to structural defect of the drains.



PUBLIC CLEANSING.

The work of the Public Cleansing section of the department has proceeded in a satisfactory manner. The collection of refuse is carried out by one "W" type S.D. fore and aft tipper and two "TW" type diesel fore and aft tippers, all with cabs to accommodate drivers and loaders. Wastepaper salvage is collected weekly by a "W" type S.D. fore and aft tipper.

The vehicles used in the department are as under:-

S.D.1."W" type fore & aft tipper.	Licensed April,1957.
S.D.2."W" type fore & aft tipper.	Licensed March,1958.
S.D.3."TW" type diesel fore & aft tipper.	Licensed March,1961.
S.D.4."TW" type diesel fore & aft tipper.	Licensed Sept. 1962.

As the department has no spare vehicle available, it is necessary to hire a vehicle when breakdowns, etc. occur. The hired vehicle is used for paper collection whilst our own vehicle collecting paper, is transferred to refuse collection. This transfer does cause some delay and it makes it difficult to maintain a weekly collection. It was found very difficult during the year to recruit suitable labour for this type of work and it was a problem at times to maintain full gangs.

Consideration should be given to the system of using bulk containers at many shop and hotel premises. The provision of a bulk-loading refuse vehicle to deal with these containers, would assist the work of the department and help us to maintain a weekly collection throughout the district.

Costings - Refuse Collection (Year Ending 31.3.1965).

	£	£
Total gross cost involved - collection of house, shop and trade refuse.....		18,041
Net cost of salvage: Sales.....	1,578	
Cost.....	1,904	326
		18,367
Income - Trade Refuse, etc.....		273
		18,094
Expenditure per 1,000 houses per annum... ..		£2,064
Expenditure per 1,000 population per annum... ..		£ 822



DISPOSAL OF REFUSE.

All the refuse collected was disposed of by controlled tipping methods on land owned by the Council at the River Wyre foreshore. The Council purchased additional land adjacent to the site for refuse disposal purposes and this is now being used. The area of land reclaimed can be made suitable for recreational purposes as the Council wish to decide.

A Fiat tractor was engaged on this work during the year and has enabled the work to be carried out more efficiently and expeditiously.

It is most important that more suitable land should be acquired for the purposes of refuse disposal as the amount of land under the control of the Council is limited.

It will be noticed that the following costs are a reduction on the previous year.

Costings - Refuse Disposal (Year Ending 31.3.65).

Number of loads...	2,396
Estimated weight (tons)...	8,386
Total cost (Net)...	£ 2,628
Cost per ton...	6/2
Cost per 1,000 houses per annum...	£ 300
Cost per 1,000 population per annum...	£ 119

Costings - Refuse Collection & Disposal. (Year Ending 31.3.65).

Total Cost ...	£20,722
Cost per 1,000 houses per annum...	£ 2,364
Cost per 1,000 population per annum...	£ 941

COLLECTION AND DISPOSAL OF SALVAGE.

The Council continued with the collection of wastepaper and other salvage during the year. The price for baled wastepaper remained at £7. per ton through the year. At the end of September the Council's baling shed at Bourne Hall was destroyed by fire and one of the garages at the Council's Depot was put into use as a temporary baling depot. To prevent a large quantity of paper from being dumped on the tip, due to lack of storage facilities, an arrangement was made with a firm in Blackpool for us to deliver regularly loads of unbaled mixed wastepaper to them. The commencing price for this paper was £5. 10. 0. per ton. The arrangement was proving satisfactory and enabled us to continue collecting wastepaper.

Thanks are due to all the workmen engaged in refuse and salvage collection and disposal, for the co-operation they have given during the year.



SALVAGE DISPOSED OF DURING THE YEAR ENDING 31st DECEMBER, 1964.

	tons.	cwts.	lbs.	£.	s.	d.
Wastepaper(baled)...	214.	6.	28.	1,500.	3.	9.
Wastepaper(loose)...	26.	12.	56.	146.	8.	9.
Cardboard Boxes. ...	-	-	-	1.	18.	0.
Mixed Rags.. ...	1.	2.	9.	17.	13.	3.
Aluminium... ..	-	1.	34.	4.	17.	4.
Copper.. ...	-	-	12.	-	15.	0.
Brass... ..	-	-	3.	-	2.	3.
	<u>242.</u>	<u>2.</u>	<u>30.</u>	<u>1,671.</u>	<u>18.</u>	<u>4.</u>

REFUSE COLLECTION STATISTICS.1964.

Estimated tonnage collected. ...	7,966
Total mileage run by vehicles... ..	25,141
Number of visits to premises ... ..	448,480
Number of ash bins emptied.. ...	492,459

EMPLOYEES.

Foreman. ... ..	1
Motor Drivers... ..	4
Refuse and Salvage Collectors... ..	15
Paper Balers ... ..	1
Tip Attendants.. ...	1

Total: 22

The above figures show the minimum labour requirements of the department at present, but it is necessary from time to time, to increase this labour force due to the growth of the number of houses in the district and the fact that during the holiday period additional collections have to be given.

The cost of the collection of refuse has to be kept under constant review or it could become a very expensive item.



MONTHLY ANALYSIS OF REFUSE COLLECTION AND DISPOSAL.

<u>Month.</u>	<u>Loads.</u>	<u>Mileage.</u>	<u>Visits to Premises.</u>	<u>Ashbins emptied.</u>
January.	192	2,040	39,120	43,198
February.	166	1,917	34,054	36,540
March.	168	1,894	34,888	38,088
April.	226	2,419	41,954	45,981
May.	180	1,963	34,569	37,827
June.	174	1,825	33,521	36,778
July.	224	2,556	42,923	47,805
August.	182	1,893	34,806	38,134
September.	208	2,265	40,364	44,445
October.	198	2,128	37,729	41,902
November.	182	2,015	35,475	38,895
December.	196	2,226	39,077	42,866
	<u>2,296</u>	<u>25,141</u>	<u>448,480</u>	<u>492,459</u>

It is established that the "W" type and "TW" type vehicles have an average load capacity of 3 tons 10 cwts.

The mileage operated by the vehicles and the number of visits to premises, are still increasing due to the new development in the district.

On the 28th February, 1964, the Cleansing Foreman, Mr. John Whiteside, retired after over forty years faithful service with this department. His successor is Mr. J. R. Leadbetter who was appointed Cleansing Foreman/Mechanic.



PUBLIC CONVENIENCES.

From the 1st April, 1964, the department was responsible for the cleansing and maintenance of all Public Conveniences. The following is a list of such Conveniences as at 31st December, 1964. These are cleansed by one man full-time; one lady supervisor full-time and one full-time lady cleaner in the winter months, with an extra part-time lady cleaner in the summer months.

SITUATION:	ACCOMMODATION FOR FEMALES.	ACCOMMODATION FOR MALES.
Arena, Cleveleys.	6 WCs., 2 wash-hand basins with hot & cold water.	3 WCs. & urinal; 2 wash-hand basins with hot and cold water.
* Bathing Station, Cleveleys.	9 W.Cs., 2 wash-hand basins with hot & cold water.	4 W.Cs. & urinal; 2 wash-hand basins-cold water only.
Jubilee Gardens, Cleveleys.	10 W.Cs. (6 unused). 2 wash-hand basins-hot water at one only; cold at the other.	5 W.Cs. (3 unused) & urinal. 2 wash-hand basins. Hot water at one only; cold at the other.
* Jubilee Gardens, Bowling Green, Cleveleys.	2 W.Cs.	1 W.C. and urinal.
Bus Station, Cleveleys.	3 W.Cs. (one unused). 2 wash-hand basins with hot and cold water.	2 W.Cs. & urinal. 2 wash-hand basins with hot & cold water.
Victoria Square, Cleveleys.	8 W.Cs. 2 wash-hand basins. Cold water supply only.	1 W.C. and urinal.
* Ashdell Bowling Green, Thornton.	3 W.Cs. 1 wash-hand basin. Cold water supply only.	2 W.Cs. & urinal. 1 wash-hand basin. Cold water supply only.
Four Lane Ends, Thornton.	3 W.Cs.	2 W.Cs. and urinal.
Gamble Road, Thornton.	1 W.C.	1 W.C. and urinal.

\* Not in use during winter months.

During the year many repairs were carried out at the Public Conveniences and a survey of the electrical wiring systems made. It was found that most of the conveniences required re-wiring and tenders for this work have been invited. The Council has considered and approved schemes for the re-building of the Bus Station and Victoria Square Conveniences and it is hoped that the work will take place during next year.



SANITARY INSPECTIONS.

The following table shows the number of inspections carried out during the year:-

Number of premises visited...	4,656
Number of defects or nuisances discovered ...	882
Number of defects or nuisances abated ...	800
Number of Informal Notices served ...	22
Number of Statutory Notices served...	6

WORK CARRIED OUT.Sanitary Accommodation:

Additional W.Cs. provided..	1
Defective W.C. cisterns repaired...	3
W.Cs. repaired and cleansed and lighting repaired..	3

Drainage:

Drains cleansed from obstruction...	392
Defective rest bends replaced or renewed...	2
Provision of man-hole cover ...	1
Completion of re-drainage system...	1
Sink waste pipe made to discharge over a proper gully..	1

Housing:

Walls and ceilings repointed and repaired..	1
Yard wall repaired. ...	1
Defective eavesgutters and downspouts replaced. ...	4
Eradication of dampness ...	3
Windows repaired or replaced...	4
Chimney flashings repaired. ...	1
Wall and ceiling plaster renewed...	1
Sub-standard houses improved...	2
Weather boards provided ...	1
Sub-floor water drained ...	3

Miscellaneous:

Untidy land and offensive accumulations removed ...	10
Smoke, smell and noise nuisances dealt with ...	3
Watercourses and dykes cleansed ...	3
Boiler house built at piggery..	1
Sediment trap provided at piggery..	1
Yards cleansed. ...	1
Chimney stack lengthened to obviate complaints re smoke emission..	1
Provision of intervening ventilated space...	1
Vents to intervening space concealed...	1



SUMMARY OF VISITS MADE.

Visits to defective drains and drains tested...	292
Drains cleansed from obstruction...	392
Visits re farm drainage survey...	13
Visits to dykes, watercourses and ponds in area...	42
Visits re flooded land, gardens and water under floors...	62
Visits re inspection of Public Conveniences...	173
Visits re Water Closets...	4
Visits to Paddling Pool...	2
Visits to Beach and Foreshore...	2
Visits in connection with Food Hygiene Regulations...	446
Visits re Unsound Foodstuffs...	59
Visits re suspected Corned Beef - Paratyphoid...	405
Visits re suspected Corned Beef - Typhi-Murium...	80
Visits re suspected Ox Tongue...	270
Visits to Oyster Bar...	3
Visits to premises where milk is sold...	5
Visits made in connection with Brucellosis...	67
Visits re milk complaints...	6
Visits to premises where Ice Cream is sold...	42
<u>Samples Taken:-</u> Ice Cream...	36
Milk...	122
Milk(Brucellosis)...	108
Liquid Egg...	7
Cockle...	4
Ice Lolly...	6
Water...	4
Visits re Water Supply...	3
Visits to Hawkers Vans...	5
Visits re Rodent Control (Eradication)...	304
Visits re Rodent Control (Search and Survey)...	322
Visits made in connection with Sewer Test Baiting - Rats...	621
Visits re other vermin...	110
Enquiries re Council House tenancies...	85
Inspection of Council Houses...	9
Visits re Improvement Grants...	117
Visits re Burn Naze Improvement Grant Scheme...	77
Visits to Clearance areas and sub-standard houses...	49
Housing Inspections - Housing Act (defects, etc)...	118
Housing Inspections - Public Health Act...	19
Visits to houses in Multiple Occupation...	168

/Smoke, smell...



SUMMARY OF VISITS MADE. (Cont).

Smoke, smell and noise observations made...	48
Visits re Smoke Pollution Apparatus ...	586
Visits to Cases of Infectious Disease..	362
Visits to Factories and Workplaces. ...	88
Inspection of Shops - Shops Act, 1950..	426
Visits re Refuse and Salvage collection and disposal...	1,347
Visits re untidy land, etc. yards and passages. ...	24
Visits made in connection with defective dustbins..	340
Number of complaints received and investigated. ...	483
Visits re Pig Keeping and to Piggeries. ...	16
Visits to Caravans and Sites... ..	47
Visits to work ordered or in progress..	119
Owners or agents interviewed... ..	44
Visits re Game Dealers' Licences... ..	2
Visits re Diseases of Animals (Waste Food) Order... ..	19
Visits re Pet Animals Act..	2
Visits re Offices, Shops and Railway Premises Act, 1963.	144
Visits re Slaughter of Animals Act. ...	2
Visits re Clean Air Act ...	2
Visits re Noise Abatement Act..	6
Miscellaneous Inspections..	109
	<hr/>
	8,795

It will be noticed in the Summary that over 700 visits were made by the Inspectors with reference to the sale from shops and use in Canteens and Hotels, of tins of corned beef and ox tongue which could have been suspect.

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PUBLIC HEALTH ACT, 1936.HOUSING ACT, 1957.Details of Statutory Notices served.

<u>Act and Section:</u>	<u>Reason for Notices:</u>	<u>No. of Notices served:</u>	<u>No. complied with at end of year:</u>
Housing Act, 1957. Section 9.	Housing defects.	5	4

SWIMMING BATHS AND POOLS.

There are no public swimming baths in the area.

RAG, FLOCK & OTHER FILLING MATERIALS ACT, 1951.

No premises in the area are licensed for the manufacture of rag, flock or other filling materials. There are two premises on the register where filling materials are used, the provisions of the Act being complied with.

PET ANIMALS ACT, 1951.

Two pet shops were on the register at the end of the year. Inspections have been carried out and the premises appear to be conducted in a proper manner, the provisions of the Act being complied with.

DISEASES OF ANIMALS (WASTE FOODS) ORDER, 1957.

Upon the application of the Council, the County Council delegated to us their functions under the above Order, as and from 1st July, 1959.

Number of plants licensed at time of delegation...	3
Number of plants licensed since delegation ...	10
Number of licences cancelled or revoked...	6
Number of prosecutions ...	0
Number of inspections to licensed plants..	19

OFFENSIVE TRADES.

There are 12 in number and are confined exclusively to fish friers. Regular inspections are made and conditions generally are found to be satisfactory.



PUBLIC HEALTH AMENDMENT ACT, 1907.SECTION 86.DEALERS IN OLD METAL AND MARINE STORE DEALERS.

The provisions of the above Act are in operation and two Certificates are in existence in respect of premises in the Thornton area.

DISINFECTION.

Disinfection is carried out by means of a formalin spray or by formalin fumigators. It is carried out on request in houses where deaths have occurred from cancer, infectious disease cases removed to hospital, and all cases where deaths have occurred from pulmonary tuberculosis.

SCHOOLS.

The general condition of the schools in the area can be considered satisfactory, all being supplied with Fylde water and in each case modern water closets are provided. The eight schools in the area (excluding one private school) are under the control of the Lancashire Education Committee.

DESTRUCTION OF DOMESTIC PETS.

Destruction of domestic pets is carried out by chloroform and for a charge of 1/- a person can have a dog or cat painlessly destroyed. The department undertakes the proper disposal of the carcasses.

Number of dogs destroyed in 1964...	...	39
Number of cats destroyed in 1964...	...	29
		<hr/> 68 <hr/>
Income from destruction of animals.	£3.	8. 0.
Income from sale of carcasses...	£5.	0. 0.
	<hr/>	<hr/>
	£8.	8. 0.



SHELL FISH.

There are no shell fish beds in our area. During the year four samples of cockles were taken from an Oyster Stall on the promenade and submitted to the Public Health Laboratory, Preston, for bacteriological examination. One sample of water in which the cockles were stored, was also taken. Two of the samples of the shell fish were satisfactory and two were not. The sample of water proved to be unsatisfactory. Investigations were carried out at the stall and the necessary action was taken to improve the standard of hygiene.

MORTUARY.

A modern mortuary, possessing equipment in accordance with present day practice, has been in use throughout the year. It was used on 102 occasions and 99 post-mortems were conducted by the Police Surgeon.

By arrangement, an adjacent Borough Council, two Urban District Councils and a Rural District Council, have the joint use of our mortuary at agreed charges and this system is working satisfactorily.

PARTICULARS OF USE OF MORTUARY.

Thornton Cleveleys...	34
Fleetwood Borough Council ...	45
Poulton-le-Fylde Urban District Council..	17
Preesall Urban District Council..	1
Garstang Rural District Council..	2
Other Authorities ...	3

VERMINOUS PREMISES.

Several complaints received during the year were thoroughly investigated, advice and help being given. Minor and new infestations are dealt with by the department in co-operation with the tenants or owners concerned. The eradication of vermin is carried out by proprietary liquid insecticide and D.D.T. powder.

Eradications carried out.

Ants./	24
Cockroaches..	15
Wasps Nests..	9
Fleas ...	1



MOVEABLE DWELLINGS AND CAMPING SITES.

The control of moveable dwellings and camping sites in this area is under the Caravan Sites and Control of Development Act, 1960. The owners of the three sites in the district have been requested to comply with the new requirements of the Act and reasonable time has been given for this to be done.

The number of caravans allowed at each site is as under:-

No. 1. Site (holiday only) ... ..	180
No. 2. Site (residential ) ... ..	30
No. 3. Site (residential ) ... ..	24

All the work required at Nos. 1 and 2 sites has been completed in a satisfactory manner and the work at No. 3. site is nearing completion. In each case the Model Standards were used as a guide for our requirements.

During the year each site has been conducted in a satisfactory manner and there was no cause for serious complaint.

ATMOSPHERIC POLLUTION.

During the year recordings of the volumetric concentration of smoke and sulphur dioxide in the atmosphere were obtained at two sites in the district, in accordance with the recommendations of the Department of Scientific and Industrial Research. The sites were at the Pumping Station, Cleveleys Avenue, Cleveleys, and the Lecture Hall, Fleetwood Road North, Thornton.

The following Tables show the concentration of smoke and SO<sub>2</sub> in the atmosphere as recorded at the two sites.



# A T M O S P H E R I C P O L L U T I O N

## CONCENTRATION OF SMOKE & SO<sub>2</sub> IN ATMOSPHERE - PUMPING STATION, CLEVELEYS - 1964.

MONTH.	AVERAGE SO <sub>2</sub> - MICROGRAMMES/CUB. METRE.	AVERAGE SMOKE - MICROGRAMMES/CUB. METRE.	HIGHEST DAILY SO <sub>2</sub>	HIGHEST DAILY SMOKE.
JAN.	173. 4	293. 2	515	800
FEB.	142. 2	206. 5	345	592
MAR.	150. 6	188. 5	258	360
APRIL.	69. 2	79. 8	149	151
MAY.	41. 66	40. 48	111	78
JUNE.	44. 86	34. 4	120	134
JULY.	29. 83	16. 64	80	42
AUG.	46. 28	35. 00	98	53
SEPT.	45. 3	51. 56	130	170
OCT.	115. 57	182. 1	422	576
NOV.	136. 2	214. 4	565	684
DEC.	124. 26	179. 07	470	632



A T M O S P H E R I C P O L L U T I O N  
CONCENTRATION OF SMOKE & SO<sub>2</sub> IN ATMOSPHERE - LECTURE HALL, THORNTON - 1964.

MONTH.	AVERAGE SO <sub>2</sub> - MICROGRAMMES/CUB. METRE.	AVERAGE SMOKE - MICROGRAMMES/CUB. METRE.	HIGHEST DAILY SO <sub>2</sub>	HIGHEST DAILY SMOKE.
JAN.	182. 0	279. 1	461	716
FEB.	144. 4	191. 5	322	592
MAR.	143. 5	179. 5	246	364
APRIL.	78. 2	67. 1	161	133
MAY.	40. 59	30. 4	103	83
JUNE.	42. 43	34. 6	121	121
JULY.	27. 49	12. 41	77	52
AUG.	45. 1	30. 03	83	66
SEPT.	50. 66	44. 03	161	178
OCT.	134. 52	199. 29	394	568
NOV.	138. 8	219. 87	556	796
DEC.	128. 69	211. 07	393	716



OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963.TABLE "A"

REGISTRATIONS AND GENERAL INSPECTIONS.			
CLASS OF PREMISES.	NO. OF PREMISES REGISTERED DURING YEAR 1964.	TOTAL NUMBER OF REGISTERED PREMISES AT END OF YEAR.	NUMBER OF REGISTERED PREMISES RECEIVING A GENERAL INSPECTION DURING YEAR.
OFFICES.	45	45	8
RETAIL SHOPS.	152	145	44
WHOLESALE SHOPS & WAREHOUSES.	-	-	-
CATERING ESTABLISHMENTS OPEN TO THE PUBLIC & CANTEENS.	20	20	9
FUEL STORAGE DEPOTS.	1	1	1

TABLE "B"

Number of visits of all kinds by Inspectors to registered premises.	114
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TABLE "C"

CLASS OF WORKPLACE.	NUMBER OF PERSONS EMPLOYED.
OFFICES.	236
RETAIL SHOPS.	522
WHOLESALE SHOPS & WAREHOUSES.	10
CATERING ESTABLISHMENTS OPEN TO THE PUBLIC.	245
CANTEENS.	1
FUEL STORAGE DEPOTS.	9
TOTAL:	1,023
TOTAL MALES:	352
TOTAL FEMALES:	671



R O D E N T   C O N T R O L .

The test-baiting of the foul sewers was carried out during the year and in this connection 257 man-holes were test-baited and no takes were observed. Particular attention was paid to new and extended sewers serving new housing areas.

The charges for treatment are as follows:-

Private dwelling-houses..... 10/-

Boarding houses, hotels, business premises - Time @.. 9/-  
an hr. plus cost of baits used.

Statistics for year. (1st Jan. to 31st Dec. 1964)

Number of complaints received...	72
Number of infestations..	56
Number of visits for purposes of eradication ...	304
Number of premises successfully treated by L.A..	56
Number of visit made - "Search and Survey"..	322

PREVENTION OF DAMAGE BY PESTS ACT, 1949.

It was not found necessary to serve any Notices under the provisions of the above Act. A few intimation notices were served and these were sufficient to secure the co-operation of the people concerned. We experienced no difficulty in regard to the operation of the Act.

Statistics for 12 months ended 31.12.64.

	TYPE OF PROPERTY.		
	Non-Agricultural:		Agricul- tural.
	Dwelling- houses.	All other.	
(a) No. of properties in district...	8,766	708	60
(b) No. of properties inspected.....	39	24	2
(c) Total inspections carried out (including re-inspections).....	227	388	11
(d) No. of properties inspected which were found to be infested by: Rats - major.....	11	2	-
Rats - minor.....	12	9	1
Mice - major.....	-	6	-
Mice - minor.....	9	6	-
(e) No. of infested properties treated.....	32	23	1
(f) Total treatments carried out (including re-treatments).....	32	23	1



FACTORIES ACT, 1937.

Records are kept of all premises coming within the scope of the Factories Act and regular inspections are made. Particulars of inspections, defects, contraventions found and remedied, are enumerated in the following tables. There are no under-ground bakehouses in the district.

1. Inspection of Factories & Other Premises.

	No. on Register	Inspections.	Written Notices.
Factories (without mechanical power) .. . . .	21	16	-
Factories (with mechanical power) .. . . .	70	72	-
Total:	91	88	-

2. Defects found in Factories & Other Premises.

	No. of Cases in which defects were found:	
	Found:	Remedied:
<u>Sanitary Conveniences:-</u>		
(a) Insufficient .. . . .	2	-
(b) Unsuitable or defective.	4	1
Total:	6	1



H O U S I N G.1. Number of new houses erected during 1964:

(1)	By the local authority...	-
(2)	By other bodies or persons...	417
(3)	Total number of houses in area...	8,766

New Houses erected in 1964(Ward Distribution):

North Ward...	85
North Central Ward...	128
South Ward...	51
South Central Ward...	33
East Ward ...	113
West Ward ...	7
	<u>417</u>

## 2. Total No.of Council-owned dwellings existing at year end.

504

3. Inspection of dwelling-houses during year:

(i)(a)	Total No.of dwelling-houses inspected formally or informally for housing defects(under Public Health or Housing Acts) ...	86
(b)	No.of inspections, formal or informal, made for the purpose..	118
(c)	No.of dwelling-houses in(a)above found to be not in all respects reasonably fit for human habitation but capable of being rendered fit ...	72
(ii)	Total no.of dwelling houses existing at end of year which were unfit for human habitation and not capable at reasonable expense of being rendered fit and in respect of which(a) Demolition Orders have been made (at any time) ...	14
	(b) Demolition or Closing Orders have not yet been made ...	2

4. Houses Demolished:In Clearance Areas:

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

Not in Clearance Areas:

- 4) As a result of formal or informal procedure under Sec.17(1), Housing Act, 1957. ...
- 5) Local Authority-owned houses certified unfit by M.O.H..
- 6) Houses unfit for human habitation where action has been taken under local Acts ...
- 7) Unfit houses included in Unfitness Orders ...

Houses Demolished.	Displaced during year.	
	Persons.	Families.
4	2	2
-	-	-
-	-	-
1	4	1
-	-	-
-	-	-
-	-	-



5. Unfit Houses Closed:-

	Number.	Displaced during year.	
		Persons.	Families.
(1) Under Secs.16(4),17(1) & 35 (1), Housing Act, 1957... ..	-	-	-
(2) Under Secs.17(3) and 26, Housing Act, 1957 ... ..	-	-	-
(3) Parts of buildings closed under Sec.18,Housing Act,1957.	-	-	-

6. Unfit Houses made Fit and Houses in which defects were remedied:-

	By owner.	By L.A.
(1) After informal action by L.A.	8	-
(2) After formal notice under:		
(a) Public Health Acts... ..	-	-
(b) Housing Act,1957,Secs. 9 and 16... ..	4	-
(3) Under Sec.24,Housing Act,1957.	-	-

7. Unfit Houses in Temporary Use - Housing Act, 1957:-

<u>Position at end of year:</u>	No.of houses:	No. of separate dwellings contained in Col.(1)
(1) Retained for temporary accommodation -		
(a) Under Sec. 48 ... ..	-	-
(b) Under Sec. 17 (2) ... ..	-	-
(c) Under Sec. 46 ... ..	-	-
(2) Licensed for temporary occupation under Secs. 34 or 53..	-	-

8. Purchase of Houses by Agreement:-

	No.of houses:	No.of occupants of houses in Col.(1) (2)
Houses in Clearance Areas other than those included in confirmed Clearance Orders or Compulsory Purchase Orders, purchased during the year.. ...	-	-



9. Housing Act, 1949 & Housing (Financial Provisions) Act, 1958.  
- Improvement Grants, etc:-

Action during year:	No. of Dwelling Houses or other Buildings affected in schemes of:	
	Private bodies or individuals:	Local Authority:
(a) Submitted by private individuals to L.A..	1	-
(b) Approved by L.A..	1	-
(c) Submitted by L.A. to Ministry..	-	-
(d) Finally approved by Ministry.....	-	-
(e) Work completed..	4	-
(f) Additional separate dwellings included in (e) above.....	-	-

10. House Purchase and Housing Act, 1959 & Housing Acts, 1961 & 1964 - Standard Grants:-

Action during year:	No. of dwellings or other buildings affected.
(a) Applications submitted to Local Authority... ..	52
(b) Applications approved by Local Authority... ..	53
(c) Work completed.. ..	22

RENT ACT, 1957.

APPLICATIONS FOR CERTIFICATES OF DISREPAIR.

(1st JAN. 1964 - 31st DEC. 1964)

1. Number of applications for Certificates of Disrepair.... -
2. Number of decisions to issue Certificates of Disrepair.. -
3. Number of Certificates of Disrepair issued..... -



HOUSING ACT, 1957 - SECTION 16.

1. Individual houses reported upon to the Council...	4
2. Demolition Orders made...	5
3. Undertakings accepted - "house ceased to be used for habitation..."	-
4. Undertakings accepted - "render house fit for habitation"	-
5. Works completed during year in respect of undertakings...	3
6. Undertakings outstanding at end of year...	-
7. Houses demolished during year ...	-
8. Houses demolished voluntarily during year ...	2
9. Number of families re-housed in Council houses...	-

HOUSING ACT, 1957 - SECTION 42.

1. Clearance areas reported to Council...	-
2. Number of houses in Clearance Areas...	-
3. Number of Orders confirmed...	1
4. Number of houses in Clearance Areas demolished...	4
5. Number of families re-houses in Council houses...	3
6. Number of Enquiries held during year...	-
7. Number of houses involved in Enquiries...	-

HOUSING ACT, 1961 - HOUSES IN MULTIPLE OCCUPATION.

During the year a survey was commenced with a view to bringing up to standard the houses in multiple occupation in the area. In this connection 168 visits were made and the survey was still being continued at the end of the year.



M I L K      S U P P L Y.

There are now no dairies in this district registered under the Milk and Dairies Regulations.

The bulk of the milk consumed in this area is supplied by large dairies from outside the district and regular sampling of all designations of milk is carried out.

Distributors registered by Local Authority.

Distributors with premises in district(including shops)..... 60  
Distributors with premises outside district..... 10

MILK SAMPLES.

Type.	No. of Samples.	Satisfactory.	Unsatisfactory.	Void Samples
<u>Raw Milk - (T.T.)</u>				
(i) Methylene Blue Test..	27	21	4	2
<u>Heat Treated Milk.</u>				
(i) Methylene Blue Test..	60	57	2	1
(ii) Phosphatase Test.....		60	-	-
(iii) Turbidity Test.....		34	1	-

Samples for Biological Examination:

Total number of samples submitted... .. 108

	Results.			
	Positive	Negative	No Result.	Equi- vo- cal.
(a) Tuberculosis.....	-	16	-	-
(b) Brucellosis-Ring Test	-	73	-	6
(c) " Culture Test.....	11	13	-	-
(d) " Biological Test.....	7	12	-	-

Brucella Abortus:

During the year one Order was made under the Milk & Dairies (General) Regulations in respect of one herd of affected cows, whose milk had to go for efficient pasteurisation.

One Order made previously in respect of a farm in the area is still in operation.



FOOD AND DRUGS ACT, 1955.NUMBER OF FOOD PREMISES BY TYPE OF BUSINESS  
IN DISTRICT AT END OF YEAR.

TYPE OF BUSINESS.	NUMBER.
General grocers and provision dealers ... ..	61
Greengrocers and fruiterers(including thoses selling wet fish, game, etc.. ... ..	19
Fishmongers(including those selling poultry, game, etc ... ..	3
Meat shops (butchers, purveyors of cooked and preserved meats, tripe, etc). ... ..	24
Bakers and/or confectioners.. ... ..	19
Fried fish shops. ... ..	12
Shops selling mainly sugar confectionery, minerals, ice-cream, etc. ... ..	36
Licensed premises, clubs, canteens, cafes, restaurants, snack bars and similar catering establishments... ..	45

NUMBER OF FOOD PREMISES, BY TYPE, REGISTERED  
UNDER SEC. 16 OF FOOD AND DRUGS ACT, 1955;  
LANCASHIRE COUNTY COUNCIL ACTS OR OTHER  
LOCAL ACTS.

TYPE OF BUSINESS.	NO. REGISTERED AT 31.12.64.	NO OF INSPECTIONS.
Manufacturers of preserved food.	34	Inspections carried out when visit- ing under Food Hygiene Regulations.
Premises registered for manu- facture of Ice Cream.....	3	
Premises registered for manu- facture of Ice Cream.		
Premises registered for sale of Ice Cream.....	101	
Premises in area registered for Food Hawkers.....	16	

LIQUID EGG(PASTEURISATION)REGULATIONS, 1963:

No. of egg pasteurisation plants in district  
at end of year. ... .. None.

No. of samples of liquid egg submitted to Alpha-  
Amylase test and their results. ... .. 5

"All satisfactorily pasteurised. Salmonella organisms not isolated".

A survey was carried out of the district to ascertain the  
number of premises using liquid egg, samples then being taken as a  
matter of routine.



FOOD AND DRUGS ACT, 1955.

The following information has been supplied by the County Medical Officer of Health, with reference to the number of samples taken in this area by the County Public Health Inspectors.

A total of 98 samples were obtained consisting of 58 samples of milk (7 of which were Channel Islands milk) and 40 others comprising:-

1 Semolina	1 Olive oil
2 Brown Sugar	1 Borax B.P.
1 Lemon fruit curd	1 Pearl barley
1 Pancake mixture	1 Cream, sterilised
2 Phenergen tablets	1 Vegetables, dried (dehydrated instant potatoes)
1 Castor oil B.P.	1 Plain flour
1 Tincture of iodine	1 Part cheese and onion pie
2 Camphorated oil	1 Dripping
2 Fruit, dried	1 Fruit, fresh (grapes)
1 Vinegar	1 Fruit, fresh (plums)
3 Vegetable, dried	1 single cream
1 Seidlitz powders - B.P.C.	1 Zinc ointment B.P.
1 Cooling powders	1 Table jelly
1 Gravy browning	1 Custard powder
1 Rice, ground	1 Christmas pudding
1 Almond marzipan	1 Fruit, canned
1 Soup, canned	1 Tomato juice, canned

I give below details of those samples upon which the County Analyst gave adverse reports:-

<u>Type of Sample:</u>	<u>Result of Analysis:</u>	<u>Action Taken:</u>
1 Formal milk	Contained 0.01 International Unit penicillin per ml.	Dairy informed
1 Formal milk	Fat 2.90%, deficient 3.3% fat.	Farmer notified
1 Formal milk	Fat 2.90%, deficient 3.3% fat.	Farmer notified
1 Part Cheese	The foreign matter submitted with the part pie consisted of three small potato chips and wood shaving which weighed 0.028 gram.	Complainant informed and the vendor cautioned regarding the shaving.
1 Zinc ointment B.P.	Zinc oxide contained 22.9%. B.P. limits 14 - 16%.	Manufacturer communicated with.



UN SOUND FOODSTUFFS.

It was found necessary, after examination and tests, to accept the voluntary surrender of the following foodstuffs.

FOODSTUFFS:Meat:Tins. Pkts.Weight:  
cwts. lbs. ozs.

Corned Beef.....	10	-	.....	-	19	11 $\frac{1}{2}$
Ham.....	5	-	.....	-	33	8
Cooked Ham.....	2	-	.....	-	16	11
Pressed Ham.....	1	-	.....	-	4	-
Pork Shoulder.....	3	-	.....	-	33	1
Pork Luncheon Meat.....	1	-	.....	-	4	-
Pork Loin.....	2	-	.....	-	6	-
Lambs Livers.....	6	-	.....	-	71	-
1 Carcase Lamb.....	-	-	.....	-	31	-
Jellied Veal.....	2	-	.....	-	12	-
Tongue.....	1	-	.....	-	6	-
Ox Tongues.....	3	-	.....	-	15	8
Luncheon Meat.....	1	-	.....	-	4	-
Cooked Chicken.....	1	-	.....	-	3	12

Fish:

Lobster.....	6	-	.....	-	2	0 $\frac{1}{2}$
Pilchards.....	1	-	.....	-	-	14
Salmon.....	1	-	.....	-	-	4

Vegetables:

Garden Peas.....	3	-	.....	-	1	14 $\frac{1}{2}$
------------------	---	---	-------	---	---	------------------

Fruit:

Fruit (Various Kinds)....	17	-	.....	-	21	0 $\frac{1}{2}$
12 (Boxes) Grapes.....	-	-	.....	1	8	0
Prunes.....	-	3	.....	-	3	0
Cherries 8 - 20 lb boxes.	-	-	.....	1	48	-
Apricots {8 Boxes}.....	-	-	.....	-	--	-
Peaches {4 Trays}.....	-	-	.....	-	--	-
Pears 9 -(1 Box ).....	-	-	.....	-	23	-
Tomatoes.....	4	-	.....	-	2	6
	<u>70</u>	<u>3</u>			<u>5</u>	<u>34</u> <u>11</u>

A large quantity of foodstuff was also condemned due to a breakdown in a refrigerator.

METHOD OF DISPOSAL OF CONDEMNED FOODS.

Condemned foodstuffs are disposed of by burying on the Council's refuse tip.



I C E      C R E A M.

During the year there were 3 manufacturers of ice cream and 116 dealers on the register. Regular inspections were carried out at these premises.

ANALYSIS OF SAMPLES OF ICE CREAM.

Ref. No.	Methylene Blue Test. Provisional Grade:				Satisfactory or Not.
	1	2	3	4	
1	1	-	-	-	Yes
2	1	-	-	-	Yes
3	1	-	-	-	Yes
4	1	-	-	-	Yes
5	1	-	-	-	Yes
6	1	-	-	-	Yes
7	1	-	-	-	Yes
8	1	-	-	-	Yes
9	1	-	-	-	Yes
10	1	-	-	-	Yes
11	-	1	-	-	Yes
12	-	-	-	1	No
13	1	-	-	-	Yes
14	1	-	-	-	Yes
15	-	-	-	1	No
16	-	1	-	-	Yes
17	1	-	-	-	Yes
18	-	1	-	-	Yes
19	-	1	-	-	Yes
20	1	-	-	-	Yes
21	-	-	-	1	Yes
22	-	-	1	-	No
23	1	-	-	-	Yes
24	1	-	-	-	Yes
25	1	-	-	-	Yes
26	-	1	-	-	Yes
27	-	1	-	-	Yes
28	-	1	-	-	Yes
29	-	1	-	-	Yes
30	1	-	-	-	Yes
31	1	-	-	-	Yes
32	1	-	-	-	Yes
33	-	1	-	-	Yes
34	1	-	-	-	Yes
35	-	1	-	-	Yes
36	1	-	-	-	Yes

Ice Cream Samples taken...	36
Number Satisfactory...	32
Number not Satisfactory...	4



ICE CREAM(HEAT TREATMENT ETC.)REGULATIONS,1959.

Under the above Regulations, 6 samples of Ice Lollies were obtained and submitted to the Public Health Laboratory, Preston, for pH Values. As a result of these investigations, it was found that the pH Values were less than 4 and consequently were exempted from the Heat Treatment provisions of the above Regulations.

<u>Reference No.</u>	<u>pH Values.</u>
1/IL/64... ..	Less than 4
2/IL/64... ..	" " 4
3/IL/64... ..	" " 4
4/IL/64... ..	" " 4
5/IL/64... ..	" " 4
6/IL/64... ..	" " 4

INSPECTION AND SUPERVISION OF FOOD.FOOD HYGIENE(GENERAL)REGULATIONS, 1960.

Routine inspections have been carried out to all premises coming within the scope of the Food Hygiene Regulations.

Routine Visits to Food Premises:

a) Food Vans... ..	6
b) Stalls.. ...	2
c) Butchers' Shops. ...	22
d) Grocers Shops... ..	38
e) Greengrocers/Fish Shops. ...	17
f) Hotels, Cafe Kitchens, and Canteens. ...	46
g) Fish Friers. ...	8
h) Bakehouses.. ...	23
i) Clubs, Public Houses, etc... ..	5
j) Food Warehouses. ...	1
k) Boarding houses. ...	118
l) Food Factories.. ...	8

Number of re-visits to food premises where work was requested... ..	152
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Total number of visits to food premises ... ..	<u><u>446</u></u>
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# METEOROLOGICAL OBSERVATIONS.

The rainfall is taken daily at 9.0. a.m. at the Council's Depot, and reports are placed monthly before the Council.

YEAR	JAN.	FEB.	MARCH.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
1940	2.60	1.65	3.25	1.76	1.71	0.40	2.77	1.15	2.37	3.62	4.51	3.30	28.99
1941	1.18	3.49	2.29	0.72	3.10	0.57	0.94	2.42	0.90	4.10	1.95	1.03	22.69
1942	3.04	1.47	2.22	1.53	2.93	0.77	3.02	3.85	2.32	3.31	0.81	3.36	28.63
1943	5.83	1.74	0.55	1.92	3.29	2.10	4.63	4.74	4.78	4.50	2.73	1.56	38.37
1944	3.59	1.00	0.49	3.20	2.38	1.79	2.76	3.19	4.27	4.43	6.27	3.73	37.10
1945	2.29	4.54	1.57	1.70	3.40	2.80	2.59	0.71	3.48	5.21	0.15	2.93	31.37
1946	4.99	3.71	0.93	1.06	1.91	2.42	3.73	4.15	5.06	0.57	6.09	4.26	38.88
1947	2.95	0.55	4.81	3.21	4.57	2.43	3.16	0.66	3.45	0.50	3.73	2.08	32.10
1948	6.19	1.58	1.62	1.21	1.35	5.03	1.79	3.09	4.68	3.20	2.73	2.39	34.84
1949	1.85	1.36	1.74	2.77	3.04	0.30	3.21	2.55	0.79	4.74	3.35	5.25	30.95
1950	1.56	4.05	1.67	2.02	0.75	1.47	2.78	6.60	6.33	3.27	4.39	2.60	37.49
1951	4.03	3.19	4.67	1.10	3.34	1.04	1.52	3.37	3.74	1.53	9.04	7.61	44.18
1952	2.94	0.79	2.26	2.87	2.71	2.41	1.42	3.51	3.56	3.73	1.71	3.24	31.15
1953	1.52	0.85	0.54	2.66	2.07	1.62	4.60	3.86	5.18	1.78	4.57	1.85	31.10
1954	2.44	3.47	2.07	1.08	2.88	4.17	4.65	4.96	7.16	10.07	7.77	4.62	55.34
1955	2.77	2.42	1.64	2.05	2.58	4.51	2.29	1.22	3.14	3.04	2.29	4.40	32.35
1956	4.64	0.42	1.36	2.25	1.91	2.35	4.44	12.96	4.08	3.39	2.10	4.79	44.69
1957	4.36	3.39	2.56	0.41	3.74	2.20	4.16	5.73	6.07	6.53	1.69	5.25	46.09
1958	4.52	6.28	1.52	1.52	4.00	4.09	3.19	3.39	3.65	4.15	1.92	3.39	41.62
1959	3.46	0.49	2.56	3.13	1.57	3.91	4.17	0.42	0.39	3.95	4.33	7.51	35.89
1960	5.51	3.00	1.42	2.24	2.81	1.47	5.03	3.06	3.55	2.73	8.48	3.81	43.11
1961	5.52	3.21	0.91	4.81	1.97	2.10	3.98	5.01	3.28	4.95	4.14	3.14	43.02
1962	4.56	1.91	1.73	3.02	2.55	1.40	1.77	5.13	3.59	2.11	2.20	3.19	33.16
1963	0.76	0.47	3.05	2.92	1.93	3.44	2.33	2.89	3.97	3.43	5.60	0.80	31.59
1964	1.29	0.52	2.63	1.92	2.98	1.88	1.38	2.75	1.99	3.08	2.32	5.53	28.27



49.  
I N D E X.

Acts in force...	6
Area ...	6,7
Ages at Death and Causes of Death...	12
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Medical Officer of Health's Report..	3
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Verminous Premises..	31
Visits, Inspections, Work carried out...	26-28
Vital Statistics and Statutory Summary..	4,5,6,9
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6	Acta in London	...	...	...
6.7	Acta in London	...	...	...
12	Acta in London and Congress of Doctors	...	...	...
22-24	Atmospheric Pollution	...	...	...
4.9	Bacteria and Bacteriology	...	...	...
6	Bacteriology	...	...	...
32	Bacteriology and Bacteriology	...	...	...
17	Chief Public Health Inspector's Report	...	...	...
4.6.9	Deaths and Death Rate	...	...	...
30	Disinfection of Domestic Feces	...	...	...
30	Disinfection of Animals (Waste Food) Order, 1907	...	...	...
30	Disinfection	...	...	...
18.19	Drainage and Sewerage	...	...	...
23	Employment	...	...	...
27	Enactments Act	...	...	...
43.44	Food and Drugs Act and Regulations	...	...	...
13	Food Potatoes	...	...	...
47	Food Hygiene Regulations	...	...	...
38-41	Housing	...	...	...
46.47	Ice Cream and Ice Lolly Sanitation	...	...	...
4.5	Infantile Mortality	...	...	...
13-16	Intoxicant Diseases and Tuberculosis	...	...	...
10.11	Insects and Insecticides	...	...	...
4.5	Maternal Mortality	...	...	...
7	Medical Officer of Health's Report	...	...	...
48	Metecological Report	...	...	...
42	Milk Supply and Milk Sanitation	...	...	...
21	Mortality	...	...	...
29	Offensive Trades	...	...	...
29	Offices, Shops & Railway Premises Act, 1907	...	...	...
29	Pet Animals Act, 1901	...	...	...
7	Physical Features of District, Geology and Climate	...	...	...
6	Population	...	...	...
21-24	Public Disinfecting (Waste & Saliva) Collection and Disposal	...	...	...
30	Public Health Amendment Act, 1907 (Mental Asylum)	...	...	...
23	Public Conveniences	...	...	...
29	Race, Race and Other Winding Materials Act	...	...	...
29	Robert Control & Prevention of Damage by Pests Act	...	...	...
30	Schools	...	...	...
8	Social Conditions, Industries, etc.	...	...	...
29	Statutory Notices	...	...	...
29	Swimming Baths	...	...	...
45	Unsanitary Foodstuffs	...	...	...
21	Various Premises	...	...	...
26-28	Waste, Infection, Work carried out	...	...	...
4.5.6.9	Vital Statistics and Statistical Summary	...	...	...
18-20	Water Supply	...	...	...
8	Waste	...	...	...







