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**Contributors**

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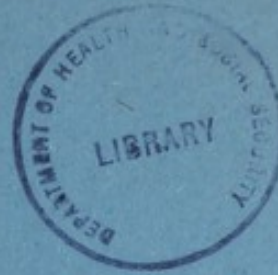


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**CREWE**  
BOROUGH

COUNCIL



# ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

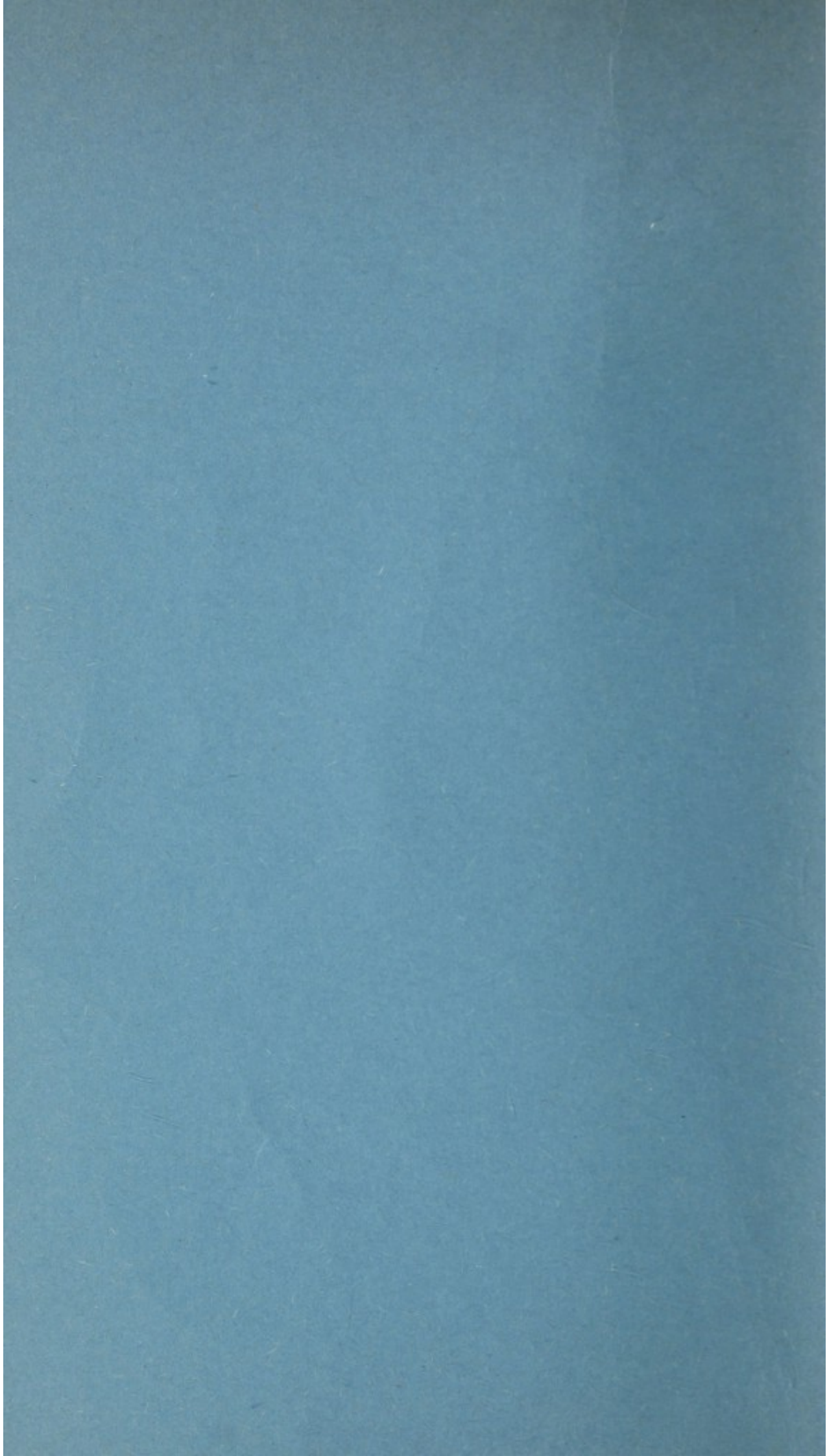
AND THE

CHIEF PUBLIC HEALTH INSPECTOR

FOR THE YEAR 1969

D.G. CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H.,  
MEDICAL OFFICER OF HEALTH

R.E. PLATT, M.A.P.H.I., A.M. Inst. P.C.,  
CHIEF PUBLIC HEALTH INSPECTOR



BOROUGH OF CREWE  
HEALTH AND STAMPADE DEPARTMENT  
(Barbarship of St. St. December, 1969)

**B O R O U G H   O F   C R E W E**

**ANNUAL REPORT**

**of the**


**MEDICAL OFFICER OF HEALTH**

**and the**

**CHIEF PUBLIC HEALTH INSPECTOR**

**1 9 6 9**

Almanac V. Taylor  
Councillor W. L. Porth  
Councillor G. L. Gidd  
Councillor T. G. Merrill  
Councillor D. Holt  
Councillor M. Schales  
Councillor Mrs. A. Young



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B O R O U G H   O F   C R E W E  
H E A L T H   A N D   S T A N D A R D S   C O M M I T T E E

(Membership as at 31st December, 1969)

Chairman:

Councillor Mrs. K. Talbot

Deputy Chairman:

Alderman S.W. Green

Members:

THE WORSHIPFUL THE MAYOR -

Councillor H. Harrison

Alderman R. Peach O.B.E.

Alderman W. Talbot

Councillor A.E. Booth

Councillor G.L. Dodd

Councillor T.G. Hamilton

Councillor D. Holt

Councillor M. Scholes

Councillor Mrs. A. Young

BOROUGH OF CREWE

MEDICAL OFFICER'S OFFICE

D.G. CRAWSHAW, M.B.,Ch.B.,D.C.H.,D.P.H., Medical Officer of Health  
(part-time with Cheshire C.C.)

C. BENNETT, D.M.A., Chief Clerk (part-time with Cheshire C.C.)

MRS. J.M. COOKE, Clerk (part-time with Cheshire C.C.)

CHIEF PUBLIC HEALTH INSPECTOR'S DEPARTMENT

R. E. PLATT	Chief Public Health Inspector, Inspector under the Diseases of Animals Acts.
F.J. ROGERS	Deputy Chief Public Health Inspector
D.W. COOKE	Public Health Inspector
R.D. COLLIER	Public Health Inspector
E.H. PEET	Public Health Inspector
T.E. HOLLINS	Public Health Inspector
D.S. WHITE	Technical Assistant
I. CLARKE	Pupil Public Health Inspector
J.C.M. POTTER	Pupil Public Health Inspector
R.J. BLEASE	Chief Administrative Assistant
G.E. LATHAM	Clerk
MRS. J. ADAMS	Shorthand Typist
MISS. J. WARBURTON	Shorthand Typist

To the Mayor, Aldermen and

Councillors of the Borough of Crewe.

October, 1970.

I have the honour to present to you my report on the health of the Borough of Crewe for the year 1969.

#### VITAL STATISTICS

During 1969, 19 infants died before reaching the age of 1 year and the infantile mortality rate of 23.34 per 1,000 live births is again high compared with the England & Wales figure of 18.0. 9 of these babies died during the first month of life. The total number of births shown (814) shows a further fall, and is the lowest total in the decade. The number of illegitimate births (93) shows an increase of 8 on the 1968 figure and this, together with the lower number of births gives a record high illegitimate live birth rate of 11.4%. Last year's figure was 9.8%. The corrected live birth rate (15.9) remains lower than the national figure for England & Wales (16.3).

The total number of deaths, 681, is again higher than the ten years average figure, (approximately 600) which is comparable as our population remains static, and the corrected death rate 15.2 is high compared with the England & Wales figure (11.9). The table on pages 9 to 13 shows the causes and ages.

#### INFECTIOUS DISEASES

The table on page 15 gives details of these and shows that 1969 was a relatively good year having a very low incidence of these diseases.

Details of immunisations and vaccinations and brief information on other work carried out is included in the Report.

I remain,

Your obedient servant,

D.G. CRAWSHAW.



STATISTICS AND SOCIAL CONDITIONS OF THE AREA

GENERAL STATISTICS

Area (Census 1961) ... ..	4,386 acres
Population (Census 1961) ... ..	53,394
Registrar General's Estimated Population 1969	51,960
Number of Inhabited Houses (1st April, 1969)	17,617
Rateable Value (1st April, 1969)	£2,043,917
Sum Represented by Penny Rate (1968/9) ... ..	£8,138. 1s. 1d.

VITAL STATISTICS FOR THE YEAR 1969

MOTHERS & INFANTS

LIVE BIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	341	380	721
Illegitimate	40	53	93
	<u>381</u>	<u>433</u>	<u>814</u>

Rate per 1,000 population ... ..	15.7
Illegitimate live births (per cent. of total live births)	11.4%

STILLBIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	5	9	14
Illegitimate	-	1	1
	<u>5</u>	<u>10</u>	<u>15</u>

Rate per 1,000 total live and stillbirths ... ..	18.09
<u>Total live and stillbirths</u>	

<u>Males</u>	<u>Females</u>	<u>Total</u>
386	443	829

Infant Deaths (deaths under one year)

<u>Males</u>	<u>Females</u>	<u>Total</u>
8	11	19

INFANT MORTALITY RATES

Total infant deaths per 1,000 total live births ... .. 23.34  
Legitimate infant deaths per 1,000 legitimate live births 19.47  
Illegitimate infant deaths per 1,000 illegitimate live births 53.76

NEO-NATAL MORTALITY RATE

(Deaths under 4 weeks per 1,000 total live births) ... 11.05

EARLY NEO-NATAL MORTALITY RATE

(Deaths under 1 week per 1,000 total live births) ... 7.37

PERINATAL MORTALITY RATE

(Stillbirths and deaths under 1 week combined per  
1,000 total live and stillbirths) ... .. 25.33

MATERNAL MORTALITY (including abortion)

Number of deaths ... .. nil

DEATHS - GENERAL

REGISTERED DEATHS

<u>Males</u>	<u>Females</u>	<u>Total</u>
360	321	681

DEATH RATE

(Deaths per 1,000 population) ... .. 13.1

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY  
MATERNAL MORTALITY AND CASE RATES FOR CERTAIN  
INFECTIOUS DISEASES IN THE YEAR 1969

(Provisional figures based on weekly and quarterly returns)

								CREWE
								Rates per 1,000 of the Population
BIRTHS -								
Live	...	...	...	...	...	...	...	15.7
Still	...	...	...	...	...	...	...	0.29
DEATHS -								
All causes	...	...	...	...	...	...	...	13.1
Typhoid & Paratyphoid Fevers	...	...	...	...	...	...	...	-
Whooping Cough	...	...	...	...	...	...	...	-
Diphtheria	...	...	...	...	...	...	...	-
Tuberculosis (all forms)	...	...	...	...	...	...	...	0.019
Influenza	...	...	...	...	...	...	...	0.134
Smallpox	...	...	...	...	...	...	...	-
Acute Poliomyelitis, including Polioencephalitis	...	...	...	...	...	...	...	-
Pneumonia (including pneumonia of Newborn)	...	...	...	...	...	...	...	0.44
								Rates per 1,000 Live Births
Under 1 year of age (all causes)	...	...	...	...	...	...	...	23.34
Gastro-Enteritis, Colitis (except ulcerative) and Diarrhoea under 1 year of age	...	...	...	...	...	...	...	0.019
								Rates per 1,000 of the population
NOTIFICATIONS (corrected) -								
Typhoid Fever	...	...	...	...	...	...	...	-
Paratyphoid Fever	...	...	...	...	...	...	...	-
Meningococcal Infection	...	...	...	...	...	...	...	-
Scarlet Fever	...	...	...	...	...	...	...	0.42
Whooping Cough	...	...	...	...	...	...	...	0.38
Diphtheria	...	...	...	...	...	...	...	-
Erysipelas	...	...	...	...	...	...	...	-
Smallpox	...	...	...	...	...	...	...	-
Measles	...	...	...	...	...	...	...	0.15
Acute Poliomyelitis including Polioencephalitis	...	...	...	...	...	...	...	
Paralytic	...	...	...	...	...	...	...	-
Non-Paralytic	...	...	...	...	...	...	...	-
Food Poisoning	...	...	...	...	...	...	...	0.077
Puerperal Pyrexia	...	...	...	...	...	...	...	-
Ophthalmia Neonatorum	...	...	...	...	...	...	...	-
Dysentery	...	...	...	...	...	...	...	0.019
Infective Jaundice	...	...	...	...	...	...	...	0.038

A dash (-) signifies that there were no deaths or notifications

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY  
MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN  
INFECTIOUS DISEASES  
IN THE YEAR 1969

(continued)

Comparison of certain rates with those for England and Wales.

COMPARABILITY FACTORS

<u>Births</u>	<u>Deaths</u>		
1.01	1.16	<u>Crewe</u>	<u>England and Wales</u>
Per 1,000 Home Population			
Live Births   ...   ...   ...   ...	15.7		
Live Births (corrected by comparability factor)	15.9		16.3
Deaths (all causes) actual	13.1		
Deaths (all causes) (corrected by comparability factor)	15.2		11.9
Per 1,000 total (live and still) births			
Stillbirths   ...   ...   ...   ...	18.09		13.0
Per 1,000 Live Births			
Deaths under 1 year of age   ...   ...	23.34		18.0

COMPARATIVE STATISTICS 1959 - 1969

Year	Live Births		Stillbirths		Deaths		Infant Deaths				Maternal Deaths				
	Esti- mated Popu- lation	No.	Rate per 1,000 Esti- mated Popu- lation	No.	Rate per 1,000 Total Live & Still- births	No.	Rate Per 1,000 Esti- mated Popu- lation	Under 4 weeks	4 wks to 12 mths	Total	Rate Per 1,000 Live Births	Sep- sis	Other	Total	Rate per 1,000 Total Births
1959	51,200	841	16.4	17	19.8	599	11.7	11	4	15	17.8	-	1	1	1.2
1960	51,320	910	17.7	28	29.8	540	10.5	16	3	19	20.9	-	-	-	-
1961	53,730	919	17.1	21	22.3	702	13.1	12	5	17	18.5	-	-	-	-
1962	53,580	958	17.8	15	15.4	655	12.22	8	21	29	30.27	-	1	1	1.02
1963	53,180	995	18.7	26	19.2	621	11.67	17	10	27	27.13	-	1	1	0.979
1964	52,950	1023	19.3	24	22.9	616	11.63	14	10	24	23.46	-	1	1	0.955
1965	52,870	975	18.4	23	23.0	657	12.43	8	8	16	16.41	-	-	-	-
1966	52,600	898	17.07	19	20.71	661	12.56	17	8	25	27.83	-	1	1	1.090
1967	52,400	875	16.7	14	16.96	635	12.1	8	4	12	13.71	-	-	-	-
1968	52,220	867	16.6	18	20.33	637	12.2	10	12	22	25.37	-	-	-	-
1969	51,960	814	15.7	15	18.09	681	13.1	9	10	19	23.34	-	-	-	-

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1969 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years											
					1-	5-	15-	25-	35-	45-	55-	65-	75+			
					Enteritis & Other Diarrhoeal Diseases	M	1	-	-	-	-	-	-	-	-	1
	F	2	-	1	-	-	-	-	-	-	-	1	-	-	-	-
Tuberculosis of Respiratory System	M	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm, Buccal Cavity Etc.	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm, Oesophagus	M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	F	4	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Malignant Neoplasm, Stomach	M	13	-	-	-	-	-	-	-	-	-	-	-	-	1	5
	F	4	-	-	-	-	-	-	-	2	-	2	1	2	1	1
Malignant Neoplasm, Intestine	M	10	-	-	-	-	-	-	-	-	-	-	-	-	1	4
	F	9	-	-	-	-	-	-	-	-	2	-	2	-	2	3
Malignant Neoplasm, Larynx	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm, Lung, Bronchus	M	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	4	-	-	-	-	-	-	-	1	-	1	1	11	4	6
Malignant Neoplasm, Breast	M	8	-	-	-	-	-	-	-	-	-	-	-	-	1	-
	F	6	-	-	-	-	-	-	-	1	-	2	1	2	2	2

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1969 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years											
					1-	5-	15-	25-	35-	45-	55-	65-	75+			
Leukaemia	M F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Malignant Neoplasms	M F	17 16	-	-	2	-	-	2	-	4	5	4	5	2	3	-
Benign & Unspecified Neoplasms	M F	2 3	-	-	-	-	-	-	-	1	-	1	-	-	-	2
Diabetes Mellitus	M F	4 5	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Other Endocrine Etc. Diseases	M F	- 2	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Anaemias	M F	4 5	-	-	-	-	-	-	-	-	-	-	-	-	1	3
Mental Disorders	M F	1 1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Meningitis	M F	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Other Diseases of Nervous System, Etc	M F	1 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic Rheumatic Heart Disease	M F	3 2	-	-	-	-	-	-	-	-	-	-	-	2	1	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1969 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total ALL Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Hypertensive Disease	M	4	-	-	-	-	-	-	-	-	-	1	2	1
	F	5	-	-	-	-	-	-	-	-	-	-	2	3
Ischaemic Heart Disease	M	94	-	-	-	-	-	-	-	-	-	24	36	22
	F	51	-	-	-	-	-	-	-	-	-	9	22	18
Other Forms of Heart Disease	M	17	-	-	-	-	-	-	-	-	-	3	10	4
	F	26	-	-	-	-	-	-	-	-	-	1	5	18
Cerebrovascular Disease	M	49	-	-	-	-	-	-	-	-	-	7	22	16
	F	65	-	-	-	-	-	-	-	-	-	4	23	34
Other Diseases of Circulatory System	M	10	-	-	-	-	-	-	-	-	-	4	2	4
	F	12	-	-	-	-	-	-	-	-	-	-	3	9
Influenza	M	3	-	-	-	-	-	-	-	-	-	1	2	-
	F	4	-	-	-	-	-	-	-	-	-	1	2	1
Pneumonia	M	12	-	-	-	-	-	-	-	-	-	2	5	5
	F	11	-	-	-	-	-	-	-	-	-	3	2	4
Bronchitis & Emphysema	M	31	1	1	-	-	-	-	-	-	-	8	12	7
	F	9	-	1	-	-	-	-	-	-	-	1	4	3
Asthma	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	1	1

Cont'd



CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1969 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
Other Diseases of Respiratory System	M	4	-	2	-	-	-	-	-	-	-	2	-
	F	2	-	2	-	-	-	-	-	-	-	-	-
Peptic Ulcer	M	2	-	-	-	-	-	-	-	-	-	1	1
	F	4	-	-	-	-	-	-	-	-	-	3	1
Intestinal Obstruction & Hernia	M	-	-	-	-	-	-	-	-	-	-	-	-
	F	3	-	1	-	-	-	-	-	-	-	-	2
Other Diseases of Digestive System	M	-	-	-	-	-	-	-	-	-	-	-	-
	F	4	-	-	-	-	-	-	-	-	-	4	-
Nephritis & Nephrosis	M	1	-	-	-	-	-	1	-	-	-	-	-
	F	1	-	-	-	-	-	1	-	-	-	-	-
Hyperplasia of Prostate	M	1	-	-	-	-	-	-	-	-	-	-	1
Other Diseases, Genito-Urinary System	M	2	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	2	-	1	1
Diseases of Skin, Subcutaneous Tissue	M	1	-	-	-	-	-	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-	-	-	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1969 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years															
					1-	5-	15-	25-	35-	45-	55-	65-	75+							
Diseases of Musculo-Skeletal System	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congenital Anomalies	M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Birth Injury, Difficult Labour, Etc.	M	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Causes of Perinatal Mortality	M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Symptoms and Ill Defined Conditions	M	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Motor Vehicle Accidents	M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All Other Accidents	M	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Suicide & Self-Inflicted Injuries	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL ALL CAUSES	M	360	5	3	1	3	1	1	1	12	22	78	123	108						
	F	321	4	7	1	17	36	99	148											





TUBERCULOSIS

Particulars of New Cases of Tuberculosis and

Deaths During 1969

Age Group	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 year - 4 years	-	-	-	-	-	-	-	-
5 years - 9 years	-	-	-	-	-	-	-	-
10 years - 14 years	-	-	-	-	-	-	-	-
15 years - 19 years	-	-	-	-	-	-	-	-
20 years - 24 years	1	-	-	-	-	-	-	-
25 years - 34 years	-	-	-	-	-	-	-	-
35 years - 44 years	2	1	-	-	1	-	-	-
45 years - 54 years	2	-	-	-	-	-	-	-
55 years - 64 years	1	-	-	-	-	-	-	-
65+	-	-	-	-	-	1	-	-
Total	6	1	-	-	1	1	-	-

Particulars of New Cases and Deaths

During the Last Five Years

	New Cases		Deaths	
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
1965	13	-	4	-
1966	6	-	9	-
1967	4	1	3	-
1968	5	1	5	-
1969	7	-	2	-

The following tabulated summary indicates the number of cases remaining on the register at 31st December, 1969.

	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
No. of cases on Register of Notifications on 1st January, 1969	69	34	4	5
No. of cases notified for the first time during the year	6	1	-	-
No. of cases transferred from other districts	1	1	-	-
No. of cases restored to Register	-	-	-	-
No. of cases removed from Register during the year on account of having				
(a) Recovered	3	3	1	1
(b) Removed from district	1	-	-	1
(c) Died	1	1	-	-
(d) Diagnosis not established	2	-	-	-
(e) Lost sight of	-	1	1	1
No. of cases remaining on the Register on 31st December, 1969	69	31	2	2

Of the 2 cases listed under (c) above, both died from other primary causes.

VACCINATION AND IMMUNISATION

Vaccination Against Smallpox

The number of primary vaccinations of persons under 16 years of age reported to me during the year was 215, showing a decrease of 131 on the previous year.

	Age at date of vaccination				
	Years			Total	
	1	2-4	5-15	Clinics	By G.P.'s
Vaccinated	4	147	64	-	215
Re-vaccinated	1	3	1	-	5

Diphtheria Immunisation

During the year notifications received from Medical Practitioners showed that 385 children were immunised against diphtheria. In addition 377 children received a boosting dose to improve their immunity.

During the year the Ministry introduced changes in the immunisation and vaccination schedules. The tables included are thus not comparable with the previous years figures.

The corresponding figures for 1968 were 955 and 690.

No case of diphtheria was notified during 1969, and it is now 19 years since a case of diphtheria has been notified in the Borough.

Diphtheria, Whooping Cough, Tetanus, Poliomyelitis and  
Measles Vaccinations of Persons under 16 years of age  
Completed During 1969

A. Completed Primary Courses - Number of Persons under age 16

Type of vaccine or dose	Year of birth					Others Under age 16	Total	
	1969	1968	1967	1966	1962-65		At Clinics	By G.P.'s
Triple DTP	69	182	28	10	29	2	-	320
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	1	22	23	6	10	3	-	65
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	-	2	19	46	-	67
Salk	-	-	-	-	-	-	-	-
Sabin	68	189	64	12	46	12	-	391
Measles	1	14	100	25	34	12	-	186

B. Reinforcing Doses - Number of persons under age 16

Type of vaccine or dose	Year of birth					Others Under age 16	Total	
	1969	1968	1967	1966	1962-65		At Clinics	By G.P.'s
Triple DTP	-	12	9	-	144	3	-	168
Diphtheria/ Pertussis	-	14	37	1	137	20	-	209
Diphtheria/ Tetanus	-	-	-	-	-	-	-	-
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	7	-	8	8	-	23
Salk	-	-	-	-	-	-	-	-
Sabin	-	22	30	6	285	25	-	368



#### MEDICAL EXAMINATIONS

During the year 466 persons were referred to me for medical assessment. Of these 75 were examined in conjunction with the Corporation's Superannuation and Sickness Pay Scheme. 167 were County Staff or persons seeking entry into a Training College, 12 were of persons applying for a Taxi Driver's Licence, and 212 completed statements of medical history.

#### MORTUARY FACILITIES

The Corporation Mortuary was closed on 1st January, 1962, and the arrangements made with the South Cheshire Hospital Management Committee have continued entirely satisfactorily. During the year the Corporation paid fees in respect of 102 bodies received at the Crewe Memorial Hospital Mortuary.

#### CREWE AND DISTRICT COMMITTEE FOR MORAL WELFARE WORK

The Reverend O.J. Horrocks has supplied the following information on the work of the Committee during 1969.

"There were 105 applications for help during the year and 15 carried over from 1968. Of the 105, 80 were maternity cases, 33 mothers kept their baby, 25 babies were adopted, 1 was taken into care, 1 was still born, 10 have not yet arrived and 10 mothers are still deciding. Of the 15 from 1968, 10 mothers kept their baby and 5 gave them for adoption. There were 25 enquiries about adoption and social problems."

It must be borne in mind that the Committee's activities cover a larger area than the Borough of Crewe.

#### FOOD POISONING

103 cases of suspected food poisoning were reported during the year. However, after investigation, only 4 were confirmed.

#### SECTION 47 NATIONAL ASSISTANCE ACT, 1948 AND

#### NATIONAL ASSISTANCE AMENDMENT ACT, 1951

Formal action was taken in respect of 2 elderly females, and one elderly male during the year.

ANNUAL REPORT OF  
THE CHIEF PUBLIC HEALTH INSPECTOR  
FOR THE YEAR 1969  
-----

Chief Public Health Inspector's  
Department,  
Municipal Buildings,  
Earle Street, CREWE.

October, 1970.

To the Mayor, Aldermen and  
Councillors of the Borough  
of Crewe.

Mr. Mayor, Ladies and Gentlemen,

I submit herewith my report of the work of the Public Health  
Inspector's Department for the year 1969.

The work of the Department, concerned as it is with environmental  
health and hygiene, is not spectacular but rather that of constant  
vigilance and inspection to maintain satisfactory standards in good  
living and working conditions, pure food and clean air. Steady progress  
was again made during 1969 and is shown in the statistics contained in  
the following report.

With the Council's fourth Smoke Control Order becoming operative  
on the 1st July, 1969, approximately one-third of the properties in the  
Borough were covered by such orders. Due to financial restrictions no  
further progress has been made with the Smoke Control programme while  
towards the end of the year, it was disappointing to find the first  
signs of the current shortage of solid smokeless fuel becoming apparent.

The department continued to co-operate with the Ministry of  
Technology in recording smoke and sulphur dioxide concentrations, and  
in this respect was fortunate in receiving the continued assistance of  
the staff of British Railways (Midland Region) Laboratory at Crewe.

In conclusion, I wish to take the opportunity of thanking the  
elected representatives, the staff of the department and other officers  
and their staffs for their help and support.

R.E. PLATT,

Chief Public Health Inspector.

SANITARY CIRCUMSTANCES OF THE AREA

PUBLIC CLEANSING

The removal of household and trade refuse is based on a weekly collection service and with the exception of holiday periods, this frequency of collection was maintained generally throughout the Borough.

The Cleansing Department operates a Refuse Disposal Plant and has a separate Garage and Workshop.

11 vehicles (including 1 spare vehicle) are employed on the collection of household and trade refuse and nightsoil, in addition to 1 vehicle used in connection with refuse disposal.

Household refuse collected	...	...	...	12,205 tons
Trade refuse collected	...	...	...	2,048 tons
				<hr/>
Total refuse collected by the Department during the year				14,253 tons
				<hr/>

3,531 tons of shop and factory refuse were also brought to the Refuse Disposal Works for disposal, making a total of 17,784 tons of refuse dealt with during the year. 63.5% of the total refuse passed through the works while the remainder was disposed of by controlled tipping.

The estimated amount of nightsoil collected during the year was 156 tons.

A separate Annual Report is issued for the Public Cleansing service in the Borough.

SANITARY ACCOMMODATION

There are still a number of privy pails in the Borough, situated in the present unsewered northern area of the town.

WATER SUPPLY

The water supply to the district is provided by the Mid and South East Cheshire Water Board. The water is not plumbo-solvent and all dwelling houses are supplied direct from the mains.

A copy of the typical characteristics of the water delivered to Crewe from Hurleston is given below:

PHYSICAL CHARACTERISTICS

Clear, colourless, odourless and no deposit.

p.H. 7.2

MINERAL CHARACTERISTICS

	<u>Parts per million</u>
Free ammonia ... ..	0.07
Albuminoid ammonia ... ..	0.14%
Nitrites ... ..	Nil
Nitrates ... ..	0.66
Total Hardness ... ..	155.00
Temporary hardness ... ..	105.00
Permanent hardness ... ..	50.00
Oxygen absorbed from $KMnO_4$ ... .. (4 hours $27^\circ C$ )	0.64
Lead and other heavy metals ... ..	negligible
Chlorides .... ..	26.00

37 samples of water taken from premises throughout the Borough were also submitted by my department for bacteriological and chemical examination and all but 4 proved satisfactory. Immediate notification of unsatisfactory samples is sent to the Water Board for their attention.



INSPECTIONS

Nature of inspections made	Number	Number of Notices served		Result of Notices served		Prosecutions
		Informal	Statutory	Complied with	Remaining in hand	
Dwellinghouses (P.H.Act)	322	165	61	176	50	-
Dwellinghouses (Hsg.Act)	731	-	-	-	-	-
Rapid Housing Survey	362	-	-	-	-	-
Improvement Grants	520	-	-	-	-	-
Rent Act Certificates	55	-	-	-	-	-
Verminous houses	146	-	-	-	-	-
Moveable dwellings	56	-	-	-	-	-
Yards and passages	29	-	-	-	-	-
Drains and sewers	2230	-	845	845	-	-
Ditches and watercourses	194	-	-	-	-	-
Offensive accumulations	225	1	-	1	-	-
Keeping of animals	37	-	-	-	-	-
Offensive trades	35	-	-	-	-	-
Places where food is prepared or sold	908	59	-	45	14	-
Factories -						
with mechanical power	82	1	-	1	-	-
with no mechanical power	3	-	-	-	-	-
Workplaces	7	-	-	-	-	-
Shops under Shops Act	20	-	-	-	-	-
Offices, Shops and Railway Premises Act	367	84	-	65	19	-
Clean Air	2412	2	-	2	-	-
Notifiable Infectious Diseases (enquiries and revisits)	154	-	-	-	-	-
Houses re. overcrowding	7	-	-	-	-	-
Milk samples	140	-	-	-	-	-
Ice Cream samples	35	-	-	-	-	-
Water supply & samples	122	-	-	-	-	-
Food & Drugs (including samples)	295	-	-	-	-	6
Applicants for Corpn.Hses.	64	-	-	-	-	-
Rodent Control	127	-	-	-	-	-
Diseases of Animals Acts	250	-	-	-	-	-
Explosive & Petroleum Acts	145	-	-	-	-	-
Miscellaneous	1245	-	-	-	-	-
Re-inspections	1355	-	-	-	-	-
<b>TOTALS</b>	<b>12680</b>	<b>312</b>	<b>906</b>	<b>1135</b>	<b>83</b>	<b>6</b>

INFECTIOUS DISEASE AND DISINFECTION

Number of premises visited where a notifiable disease has occurred	...	...	...	...	...	...	19
Number of notified cases of suspected food poisoning visited	...	...	...	...	...	...	58
Number of Library Books disinfected -							
(a) from Public Library	...	...	6				
(b) from Private Libraries	...	...	-	...	6		

DISINFESTATION

The following table shows the number of verminous premises treated during 1969.

	Number found to be infested		Number of Premises Disinfested
	Premises	Rooms	
Council Houses ...	16	51	16
Other Houses ...	10	35	10
Cases confirmed after complaint of infestation	19	-	-
Cases found by Public Health Inspectors...	7	-	-
Houses disinfested by Corporation ...	-	-	26
Houses disinfested by Contractors ...	-	-	-

The work of disinfestation was carried out by the use of D.D.T. and patent fumigant solutions.

In addition to the premises listed above, 139 houses were treated for infestations of beetles, ants, etc.

SWIMMING BATHS

The only Public Swimming Baths in the Borough are owned by the Corporation and contain two swimming pools, slipper and private wash baths and various other amenities.

During the year, 37 samples of bath water were submitted for bacteriological and chemical examination and 6 samples were unsatisfactory, but subsequent samples proved satisfactory.

OFFENSIVE TRADES

The following offensive trade is carried on in the Borough.

Bone Boiler and Fat Extractor ... 1

In addition to the above, 31 persons are registered under the Scrap Metal Dealers Act, 1964.

RAG FLOCK

Number of licensed premises used for the manufacture of, or storage of Rag Flock ... -

Number of registered premises where filling materials are used ... .. 1

COMMON LODGING HOUSES

There are no common Lodging Houses in the Borough.



HOUSING STATISTICS

1. <u>Number of New Houses erected during the year:</u>							
(a)	by the local authority	...	...	...	...	...	216
(b)	by other authorities	...	...	...	...	...	Nil
(c)	by other bodies or persons	...	...	...	...	...	66
2. <u>Inspection of dwelling houses during the year:</u>							
(a)	Total number of houses inspected for housing defects (under Public Health Acts or Housing Act)	...	...	...	...	...	412
(b)	Number of inspections made for the purpose	...	...	...	...	...	1,053
(c)	Number of dwelling houses found to be unfit for habitation -						
(i)	and included or to be included in Clearance Areas	...	...	...	...	...	195
(ii)	in respect of which demolition or closing orders were made	...	...	...	...	...	14
(d)	Number of dwelling houses (exclusive of those in (c) found not to be in all respects fit for habitation	...	...	...	...	...	165
3. <u>Remedy of defects without service of Formal notices</u>							
	Number of defective dwelling houses rendered fit in consequence of informal action by the local authority or their officers	...	...	...	...	...	128
4. <u>Action under Statutory Powers</u>							
(a)	Proceedings under Section 9 and 10 of the Housing Act 1957 -						
(1)	Number of dwelling houses in respect of which notices were served requiring repairs...	...	...	...	...	...	Nil
(2)	Number of dwelling houses which were rendered fit after service of formal notices -						
(a)	by owners	...	...	...	...	...	Nil
(b)	by Local Authority in default of owners	...	...	...	...	...	Nil

(b) Proceedings under Public Health Acts -

(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied	...	...	...	...	...	61
(2)	Number of dwelling houses in which defects were remedied after service of formal notices -						
(a)	By owners	...	...	...	...	...	46
(b)	By local authority in default of owners	...	...	...	...	...	2
(c)	(i) number of undertakings to carry out works in lieu of demolition accepted by the Council	...	...	...	...	...	-
	(ii) Number of dwellings in respect of which Closing Orders were determined	...	...	...	...	...	-

5. Housing Act 1957 - Part IV - Overcrowding

(a)	(1) Number of dwellings overcrowded at end of year	...	...	...	...	...	3
	(2) Number of families dwelling therein	...	...	...	...	...	3
	(3) Number of persons dwelling therein	...	...	...	...	...	29
(b)	Number of new cases of overcrowding reported during the year...	...	...	...	...	...	1
(c)	(1) Number of cases of overcrowding relieved during the year	...	...	...	...	...	-
	(2) Number of persons concerned in such cases	...	...	...	...	...	-
(d)	Particulars of any cases in which dwelling houses have again become overcrowded after the local authority have taken steps for the abatement of overcrowding	...	...	...	...	...	-

HOUSING CLEARANCE PROGRAMME

The following table shows the progress made since 1955 to the end of the year with the Slum Clearance Programmes

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of properties demolished to 31/12/69
	'Pink'	'Grey'				
<b>1. CLEARANCE AREAS:</b>						
West Ward No. 2 (Naylor Street) Compulsory Purchase Order 1956	87	-	5/6/56	5/4/57	79	87
West Ward No. 3 (Stafford Street) Clearance Order 1957	8	-	5/6/56	19/6/57	7	8
Central Ward No. 4 (Foundry Street) Clearance Order 1957	15	-	4/6/57	11/3/58	13	15
North Ward No. 8 (Earle Street) Clearance Order 1957	7	-	4/6/57	19/11/57	7	7
North Ward No. 9 (Martin Street) Clearance Order 1957	15	-	13/8/57	8/7/58	13	15
South Ward No. 2 (Railway Street) Clearance Order 1957	18	-	13/8/57	22/9/58	18	18
West Ward No. 4 (Stafford Street & Henshaw Street) Clearance Order 1958	10	-	4/6/58	9/7/59	10	10
South Ward No. 3 (Mill Street) Clearance Order 1958	6	-	12/8/58	8/5/59	4	6
c/f	166	-	-	-	151	166

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties In Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of properties demolished to 31/12/69
	'Pink'	'Grey'				
b/f Central Ward No. 5 (Lockitt Street) Clearance Order 1958	166	-	-	-	151	166
North Ward No. 10 (Davenport Street) Clearance Order 1958	15	-	12/8/58	19/5/59	14	15
North Ward No. 11 (Broad Street) Clearance Order 1958	14	-	12/8/58	8/4/59	13	14
North Ward No. 12 (Broughton Road) Clearance Order 1958	12	-	12/8/58	14/4/59	12	12
North Ward No. 13 (Sydney Road) Clearance Order 1958	3	-	12/8/58	8/4/59	3	3
West Ward No. 5 (Alexandra Street) Compulsory Purchase Order 1959	2	-	7/10/58	8/4/59	3	2
West Ward No. 6 (Orchard Place) Clearance Order 1959	83	2	7/4/59	12/9/60	85	85
Central Ward No. 6 (Liverpool Street/ Forge Street) Compulsory Purchase Order 1961	20	-	2/6/59	21/7/60	19	20
Central Ward No. 7 (Bank Street/ Lockitt Street) Compulsory Purchase Order 1961	186	3	12/4/60	5/10/61	171	189
c/f	45	-	4/8/61	5/4/62	39	45
	546	5	-	-	510	551

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of properties demolished to 31/12/69
	'Pink'	'Grey'				
b/f South Ward No. 4 (Mill Street) Compulsory Purchase Order 1962	546	5	-	-	510	551
Central Ward No. 10 (Chester Street West) Clearance Order 1962	2	-	10/4/62	30/10/62	2	2
Central Ward No. 11 (John Street) Clearance Order 1962	2	-	10/4/62	2/11/62	2	2
West Central Ward No. 1 (Peel Street) Clearance Order 1962	8	-	10/4/62	4/1/63	2	2
West Central Ward No. 2 (Dale Street) Clearance Order 1962	6	-	10/4/62	17/1/63	7	8
West Central Ward No. 3 (West Street/ Stafford Street) Compulsory Purchase Order 1962	64	8	10/4/62	2/11/62	6	6
North East Ward No. 1 (Chapel Lane) Clearance Order 1962	10	-	10/4/62	9/4/63	55	72
Central Ward No. 12 (Oakley Street/ Beech Street) Compulsory Purchase Order 1963	56	4	9/4/63	18/10/62	7	10
Central Ward No. 15 (Oakley Street/ Beech Street) Clearance Order 1963	19	-	9/4/63	12/5/64	50	59
c/f	715	17	-	-	655	731

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of Properties demolished to 31/12/69
	'Pink'	'Grey'				
West Ward No. 7 (Collins Street) Clearance Order 1963	715	17	-	-	655	731
South East Ward No. 1 (Bridge Street) Compulsory Purchase Order 1963	25	-	12/2/63	8/11/63	24	25
West Central Ward No. 5 (Derby Street/ Grosvenor Street) Compulsory Purchase Order 1963	27	1	12/3/63	14/1/64	24	28
Borough of Crewe No. 14 (Mill Street/ Station Street) Compulsory Purchase Order 1965	54	10	12/11/63	12/1/65	52	64
Borough of Crewe No. 52 (Broom Street/ Jackson Street) Clearance Order 1965	210	40	12/1/65	2/12/66	178	236
Borough of Crewe No. 53 (Underwood Lane) Clearance Order 1965	68	-	9/11/65	4/1/67	59	50
Borough of Crewe No. 54 (Samuel Street) Clearance Order 1965	6	-	9/11/65	4/1/67	5	5
Borough of Crewe No. 55 (Samuel Street) Clearance Order 1965	6	-	9/11/65	14/9/67	5	6
Borough of Crewe No. 55 (Samuel Street) Clearance Order 1965	8	-	9/11/65	14/9/67	5	8
c/f	1119	68	-	-	1007	1153

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of Properties demolished to 31/12/69	
	'Pink'	'Grey'					
b/f Borough of Crewe No. 56 (Barnfield) Compulsory Purchase Order 1966 Borough of Crewe No. 57 (Stanley Street) Clearance Order 1965 Borough of Crewe No. 58 (Camden Street) Clearance Order 1965 Borough of Crewe No. 59 (Thomas Street) Clearance Order 1965 Borough of Crewe No. 60 (William Street) Clearance Order 1965 Borough of Crewe No. 61 (William Street) Clearance Order 1965 Borough of Crewe No. 62 (North Street) Clearance Order 1965 Borough of Crewe No. 63 (Station Street) Clearance Order 1966 Borough of Crewe No. 64 (Mill Street) Clearance Order 1967	1119	68	-	-	1007	1153	
	25	1	9/11/65	4/1/67	16	26	
	2	-	9/11/65	4/1/67	1	2	
	5	-	9/11/65	14/9/67	5	5	
	4	-	9/11/65	14/9/67	4	4	
	15	-	9/11/65	14/9/67	14	15	
	26	-	9/11/65	14/9/67	26	26	
	2	-	9/11/65	14/9/67	-	2	
	2	-	8/2/66	2/12/66	1	2	
	8	-	3/2/65	23/10/67	7	8	
	c/f	1208	69	-	-	1081	1243

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of Properties demolished to 31/12/69
	'Pink'	'Grey'				
b/f Borough of Crewe No. 16 (Donkinson's Oak) Compulsory Purchase Order 1967	1208	69	-	-	1081	1243
Borough of Crewe No. 17 (Albert Street) Compulsory Purchase Order 1967	14	-	8/8/67	30/5/68	11	-
Borough of Crewe No. 18 (Flag Lane) Compulsory Purchase Order 1967	28	3	7/11/67	16/8/68	17	9
Borough of Crewe No. 19 (John Street/Chetwode Street) Compulsory Purchase Order 1968	3	-	7/11/67	24/4/68	3	3
2. <u>AREAS DEALT WITH INFORMALLY WITH THE APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT</u>	135	43	6/12/67	-	41	1
Park Place	67	-	19/4/56	9/7/57	65	67
3. <u>HOUSES BELONGING TO THE CORPORATION DEMOLISHED</u>						
During 1954	6	-	-	-	3	6
During 1956	3	-	-	-	2	3
During 1958	4	-	-	-	4	4
During 1959	3	-	-	-	2	3
c/f	1471	115	-	-	1229	1339



HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of properties demolished to 31/12/69
	'Pink'	'Grey'				
b/f	1471	115	-	-	1229	1339
3. <u>HOUSES BELONGING TO THE CORPORATION</u> <u>DEMOLISHED</u> Cont.	4	-	-	-	3	3
During 1960	1	-	-	-	1	1
During 1961	3	-	-	-	1	3
During 1964	1	-	-	-	-	-
During 1967	-	-	-	-	-	-
During 1968	-	-	-	-	-	-
During 1969	-	-	-	-	-	-
4. <u>HOUSES DEALT WITH BY INDIVIDUAL</u> <u>DEMOLITION OR CLOSING</u> (a) <u>Demolition Orders:</u>	1	-	-	-	1	1
During 1955	4	-	-	-	3	4
During 1956	9	-	-	-	6	9
During 1957	11	-	-	-	9	11
During 1958	14	-	-	-	12	14
During 1959	3	-	-	-	2	3
During 1960	1	-	-	-	-	1
During 1961	5	-	-	-	4	5
During 1963	2	-	-	-	2	2
During 1964	1	-	-	-	-	1
During 1965	-	-	-	-	-	-
c/f	1531	115	-	-	1273	1397

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/69	Number of Properties demolished to 31/12/69
	'Pink'	'Grey'				
b/f	1531	115	-	-	1273	1397
4. <u>HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING</u>						
(a) <u>Demolition Orders:</u> Cont.						
During 1966	3	-	-	-	2	1
During 1967	8	-	-	-	6	2
During 1968	2	-	-	-	2	-
During 1969	7	-	-	-	2	4
(b) <u>Closing Orders:</u>						
During 1959	1	-	-	-	1	-
During 1960	4	-	-	-	4	2
During 1962	3	-	-	-	3	-
During 1963	2	-	-	-	2	-
During 1964	1	-	-	-	1	-
During 1965	2	-	-	-	3	-
During 1966	3	-	-	-	3	-
During 1967	2	-	-	-	2	-
During 1968	2	-	-	-	-	-
During 1969	7	-	-	-	2	-
	1578	115	-	-	1306	1406

IMPROVEMENT GRANTS

	Total to 31st December, 1968	During 1969	Total to 31st December, 1969
1. Number of applications received	550	49	599
2. Number of applications approved	548	49	597
Approved expenditure	£85,826 0 1d	£8,793 12 6d	£94,619 12 7d
Approved grant	£42,913 0 0d	£4,396 16 3d	£47,309 16 3d
3. Number of applications refused	2	-	2
4. Number of approved applications withdrawn	22	-	22
Approved expenditure	£3,131 7 4d	-	£3,131 7 4d
Approved grant	£1,565 13 8d	-	£1,565 13 8d
5. Number of grants completed	508	51	559
Approved expenditure	£79,162 13 3d	£8,838 9 1d	£88,001 2 4d
Approved grant	£39,581 6 8d	£4,419 4 6d	£44,000 11 2d
6. Number of grants repaid	29	5	34
Amount of grants repaid	£1,458 9 3d	£227 3 6d	£1,685 12 9d
7. Average approved grant per house	£78 6 2d	£89 14 7d	£79 4 11d

CERTIFICATES OF DISREPAIR

Rent Act 1957

Part I - Applications for Certificates of Disrepair

Number of applications for certificates	...	...	...	...	2
Number of decisions not to issue certificates	...	...	...	...	Nil
Number of decisions to issue certificates -					
(a) in respect of some but not all defects	...	...	...	...	1
(b) in respect of all defects	...	...	...	...	Nil
Number of undertakings given by landlords under paragraph 5 of the first schedule	...	...	...	...	1
Number of undertakings refused by Local Authority under proviso to paragraph 5 of the first schedule	...	...	...	...	Nil
Number of certificates issued	...	...	...	...	1

Part II - Applications for Cancellations of Certificates

Number of applications by landlords to Local Authority for cancellation of certificates	...	...	...	...	1
Number of objections by tenants to cancellation of certificates	...	...	...	...	Nil
Number of decisions by Local Authority to cancel in spite of tenant's objections	...	...	...	...	Nil
Number of certificates cancelled by Local Authority	...	...	...	...	1

HOUSING ACT 1959

RETURN OF QUALIFICATION CERTIFICATES ISSUED

Improvement Cases:

Number of applications for qualification certificates under Section 44(2) under consideration at end of period	...	...	...	...	...	Nil
Number of certificates of provisional approval issued...	...	...	...	...	...	Nil
Number of qualification certificates issued under section 46(3)	...	...	...	...	...	Nil

STANDARD AMENITIES ALREADY PROVIDED

Number of applications for qualification certificates under section 44(1) under consideration at end of period	...	...	...	...	...	30
Number of qualification certificates issued under section 45(2) in respect of:-						
(i) dwellings with a rateable value of £90 or more in Greater London or of £60 or more elsewhere	...	...	...	...	...	Nil
(ii) dwellings with a rateable value of £60 to less than £90 in Greater London or of £40 to less than £60 elsewhere	...	...	...	...	...	Nil
(iii) dwellings with a rateable value of less than £60 in Greater London or of less than £40 elsewhere	...	...	...	...	...	Nil

Exemption for low income tenants from section 54

Number of certificates issued under section 55	...	...	Nil
--	-----	-----	-----

FACTORIES ACT 1961

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Public Health Inspectors).

Particulars	Number on Register	Inspections	Number of	
			Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	6	3	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	190	82	1	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises)	3	7	-	-
TOTAL	199	92	1	-

2. CASES in which defects were found

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector
Sanitary Conveniences (S.7)				
(a) Insufficient	1	1	-	-
(b) Unsuitable or defective	-	-	-	-
(c) Not separate for sexes	-	-	-	-
TOTAL	1	1	-	-

3. OUTWORKERS. Lists required by Section 110 were received relating to 44 outworkers all engaged in making wearing apparel.

Offices, Shops and Railway Premises Act, 1963

The above mentioned Act which came into force during 1964 contained provisions relating to the health, safety and welfare of employees in offices, shops and certain other premises. The following tables, have been abstracted from the annual report submitted to the Ministry of Labour.

Registration and General Inspections

Class of premises	Number of premises registered during the year	Total number of Registered premises at end of year	Number of registered premises receiving a general inspection during the year
Offices	6	134	19
Retail shops	13	381	64
Wholesale shops, warehouses	1	21	4
Catering establishments open to the public, canteens	3	56	16
Fuel storage depots	-	3	-
<b>TOTALS</b>	<b>23</b>	<b>595</b>	<b>103</b>

NUMBER OF VISITS OF ALL KINDS BY INSPECTORS TO REGISTERED PREMISES - 367

Analysis of persons employed in Registered Premises

Class of workplace	Number of persons employed
Offices	956
Retail shops	1,995
Wholesale departments, warehouses	256
Catering establishments open to the public	467
Canteens	15
Fuel storage depots	18
TOTAL	3,707
Total Males	1,377
Total Females	2,330

Exemptions and Prosecutions

No exemptions were applied for during the year, nor prosecution instituted.

Contraventions found

Premises requiring cleansing in some form	...	...	...	...	19
Provision of heating and/or thermometer	...	...	...	...	23
Inadequate ventilation	...	...	...	...	12
Defective or inadequate sanitary accommodation	...	...	...	...	14
Defective or inadequate washing facilities	...	...	...	...	15
Inadequate drinking water facilities	...	...	...	...	2
Absence of adequate facilities for storage of outdoor clothing	...	...	...	...	1
Lack of adequate eating facilities in shops	...	...	...	...	-
Defective floors, passages or staircases	...	...	...	...	12
Lack of First Aid equipment	...	...	...	...	31
Overcrowding	...	...	...	...	-
Inadequate lighting	...	...	...	...	5
Sitting facilities	...	...	...	...	-
Fencing exposed parts of machinery	...	...	...	...	4
No abstract posted	...	...	...	...	40
Refuse storage	...	...	...	...	8
Failure to register	...	...	...	...	8

Accidents

17 accidents were reported during the year, details of which are given in the following tables.



Reported Accidents

Workplace	Number reported	Total number investigated	Action Recommended			No Action
			Prosecution	Formal Warning	Informal Advice	
Offices	1	1	-	-	-	1
Retail shops	13	3	-	-	3	-
Wholesale shops, warehouses	1	1	-	-	1	-
Catering establishments open to public, canteens	2	-	-	-	-	-
Fuel storage depots	-	-	-	-	-	-
TOTALS	17	5	-	-	4	1

Analysis of Reported Accidents

	Offices	Retail shops	Wholesale warehouses	Catering Establishments	Fuel Storage Depots
Machinery	-	-	-	-	-
Transport	-	1	-	-	-
Hand tools	-	1	-	-	-
Falls of persons	-	5	1	-	-
Stepping on or striking against object or person	-	1	-	-	-
Handling goods	1	2	-	1	-
Struck by falling object	-	1	-	1	-
Not otherwise specified	-	2	-	-	-
TOTALS	1	13	1	2	-

RODENT CONTROL

The Corporation employ two full-time rodent operators and the extermination methods employed are poisoning, gassing and trapping. The following table summarises the work carried out:-

	Type of Property			Total
	Local Auth.	Dwell. Houses	Bus. Prem.	
<u>NUMBER OF PROPERTIES INSPECTED:</u>				
(1) Primary Inspections:				
(a) as a result of notification	27	304	49	380
(b) otherwise ... ..	-	251	-	251
(2) Re-inspections:				
(a) as a result of notification	-	18	3	21
(b) otherwise ... ..	-	16	-	16
Total Properties inspected ... ..	27	589	52	668
<u>Number of Properties found to be infested by RATS:</u>				
(1) Primary inspections:				
(a) Major ... ..	-	-	-	-
(b) Minor ... ..	17	461	22	500
(2) Re-infestations:				
(a) Major ... ..	-	-	-	-
(b) Minor ... ..	-	32	1	33
<u>Number of Properties found to be infested by MICE:</u>				
(1) Primary inspections ... ..	4	73	25	102
(2) Re-inspections ... ..	-	1	2	3
Total infestations found ... ..	21	567	50	638
<u>Number of infested Properties treated by Local Authority:</u>				
(1) Primary Treatments:				
(a) for RATS ... ..	15	486	15	516
(b) for MICE ... ..	3	85	24	112
(2) Treatments for re-infestation				
(a) for RATS ... ..	3	37	2	42
(b) for MICE ... ..	1	3	2	6
TOTAL Treatments... ..	22	611	43	676

NOTE: A treatment means a complete treatment for the destruction of rats and mice and includes not only the initial treatment, but when necessary, post-baiting and follow-up treatment.

RODENT CONTROL, Cont.

Following the treatments carried out, 836 rats and 294 mice were picked up, whilst the estimated kill was 3,542 rats and 824 mice.

During the year the rodent operators paid 6,344 visits in connection with the inspection and treatment of premises.

Two maintenance treatments of the sewers were also carried out. 917 manholes were baited and 637 takes of poison bait were recorded, showing an estimated kill of 1,450 rats.

PET ANIMALS ACT 1951

There are seven premises in the Borough licensed for the sale of pet animals. All these premises comply with the recommended conditions of the Royal Society for the Prevention of Cruelty to Animals, which were adopted by the Council.

INSPECTION AND SUPERVISION OF FOOD

FOOD HYGIENE

Food hygiene has continued to receive the attention of the public health inspectorate and 898 visits have been made for this purpose.

All plans of food premises submitted to the Borough Engineer are scrutinised for compliance with the various Acts and Regulations and where amendments are necessary the owner or architect is advised and corrections made before submission to the appropriate Committees. This system has worked very well indeed and architects and others have co-operated fully with the Department.

The following is a list of the various types of food premises in the Borough.

Number and type of food premises

Premises requiring registration

For the manufacture of ice cream ... ..	3
For the storage and sale of ice cream ... ..	245
For the preparation and manufacture of sausages or pressed, potted or preserved meat, etc. ... ..	20

FOOD HYGIENE REGULATIONS 1960

Type of premises	Number	Premises complying with Regulation 16	Premises complying with Regulation 19
Fried fish shops	37	37	37
Wet fish shops	4	4	4
Bakehouses	9	9	9
Butchers	46	46	46
Restaurants and cafes	27	27	27
School canteens	14	14	14
Factory canteens	18	18	18
Licensed premises	106	106	106
Grocery and provisions	126	123	125
Cakes and confectionery	15	15	15
Sweets	30	30	30
Green grocery	26	26	26
TOTALS	458	455	457

FOOD INSPECTION

There are no slaughterhouses in the Borough.

The following table shows the foods condemned during the year on account of decomposition, etc.

CANNED FOODS

					lbs	
Meat	...	...	...	...	531	
Fruit	...	...	...	...	829	
Vegetables	...	...	...	...	1,068	
Fish	...	...	...	...	3	
Miscellaneous	...	...	...	...	26	2,457 lbs

FROZEN FOODS

Meat	...	...	...	...	356	
Fish	...	...	...	...	627	
Vegetables	...	...	...	...	506	
Miscellaneous	...	...	...	...	142	1,631 lbs

OTHER FOODS

Meat	...	...	...	...	878	
Fish	...	...	...	...	57	
Fruit	...	...	...	...	13	
Vegetables	...	...	...	...	48	
Cheese	...	...	...	...	1,949	
Miscellaneous	...	...	...	...	316	3,261 lbs

TOTAL 7,349 lbs

POULTRY INSPECTION

There is one poultry processing establishment within the Borough.

The number of birds processed during the year was as follows:

Broilers	...	...	...	...	...	79,407
Capons etc.	...	...	...	...	...	6,161
Hens	...	...	...	...	...	145,854
Turkeys	...	...	...	...	...	2,086
Ducks	...	...	...	...	...	-
Geese	...	...	...	...	...	-

Regular inspections are made of the premises to maintain a general oversight of production conditions and the methods of inspection of suspect poultry.

ICE CREAM

Ice cream was manufactured at three premises in the Borough in 1969 while 254 premises were registered for the storage and sale of ice cream. A complete cold mix is used at two of the manufacturing premises in the Borough and pasteurisation at the other.

38 samples of ice cream were submitted for bacteriological examination and the results of the examinations are shown below.

Ice Cream	Methylene Blue Test Grading				TOTAL
	Grade 1	Grade 2	Grade 3	Grade 4	
Samples taken at manufacturing premises	12	4	1	4	21
Samples taken from retailers in the Borough	13	4	-	-	17
TOTALS	25	8	1	4	38

SLAUGHTER OF ANIMALS ACT 1958

The number of slaughtermen's licences issued in 1969 was 11.

KNACKER'S YARD

There is one Knacker's Yard in the Borough. These premises are not licensed for the slaughter of horses.

MILK

Designated Milk

Dealer's pre-packed licences ... .. 128

Pasteurised Milk

Establishments at which milk is pasteurised ... .. Nil

### MILK SAMPLING

During the year, 135 samples of designated milks were taken for bacteriological examination and the following table provides details of the results.

No. of Samples	Description of Milk	Methylene Blue Test		Phosphatase Test		Turbidity Test	
		Passed	Failed	Passed	Failed	Passed	Failed
7	Untreated	6	1	-	-	-	-
92	Pasteurised	88	4	92	-	-	-
36	Sterilised	-	-	-	-	36	-
135	Total	94	5	92	-	36	-

### Brucella Abortus

2 samples of untreated milk was submitted to the Ring Test and proved negative.

### FOOD SAMPLES TAKEN FOR BACTERIOLOGICAL EXAMINATION

31 samples were taken during the year as follows:

28 of hot coffee, chocolate, tea or soup from vending machines  
11 of which were unsatisfactory due to the presence of faecal coli.

3 of general foodstuffs, all of which were satisfactory.

FOOD AND DRUGS ACT 1955

During the year no formal and 148 informal samples were submitted to the Public Analyst for analysis.

Nature of Samples	No. of Samples		Number of samples adulterated or not genuine
	Informal	Formal	
Milk	4	-	2
Meat and Meat Products	43	-	10
Fish and Fish Products	9	-	-
General Groceries	45	-	10
Preserves	7	-	1
Flour Confectionery	19	-	10
Sugar Confectionery	2	-	2
Ice Cream	5	-	-
Cordials	4	-	-
Vegetables	5	-	2
Medicines etc	4	-	1
Beer and spirits	1	-	-
	148	-	38
	148		

In addition to the above samples which were submitted to the Public Analyst 15 additional samples were brought to the office.



FOOD AND DRUGS ACT 1955

The table below shows details of the samples found not to be genuine or otherwise unsatisfactory and of the relative action taken.

Sample Number	Article	Adulteration or other irregularity	Action Taken
3578	Bottle of milk	Contained a mouse	Manufacturer fined £15.
3602	Peeled plum tomatoes	Contained wasps	Importer cautioned
3604	Loaf of bread	Contained iron scale	Manufacturer cautioned
3605	Peeled plum tomatoes	Contained a wasps head	Importer cautioned
3606	Tomato soup	Contained fat contaminated by metal from the container	Manufacturer cautioned
3607	Sugar	Contained metal scale	Manufacturer cautioned
3620	Stuffed pork roll	Contained glass	Manufacturer fined £10.
3633	Travel sickness tablets	Contained a Part I poison	Retailer cautioned
3639	Cheese rolls	Mouldy	Manufacturer cautioned
3640	Bottle of milk	Contained building mortar	Dairy firm cautioned
3643	Bread	Mouldy	Manufacturer cautioned
3644	Pork Pie	Contained plastic	Manufacturer cautioned
3672	Loaf of bread	Mouldy	Manufacturer cautioned
3673	Loaf of bread	contained plastic	Manufacturer cautioned
3681	Fruit tart	Mouldy	Manufacturer cautioned
3682	Loaf of bread	Mouldy	Manufacturer cautioned
3683	Liver and bacon croquettes	Mouldy	Manufacturer cautioned
3684	Processed brussel sprouts	Contained a piece of rubber	Manufacturer cautioned
3685	Corned beef	Contained blue bottles	Prosecution ordered, Warranty submitted & then case withdrawn
3686	Cheese slices	Mouldy	Vendor cautioned
3688	Minced steak and onion	Contained a piece of wire	Manufacturer fined £10.
3701	Baby food	Contained glass	Manufacturer cautioned

Sample Number	Article	Adulteration or other irregularity	Action Taken
3711	Loaf of bread	Mouldy	Manufacturer cautioned
3712	Fruit and nut chocolate	Infestation of Ephistia Larvae	Retailer fined £5.
3713	Vanilla slices	Mouldy	Retailer cautioned
3714	Baby food	Contained insects	Manufacturer cautioned
3725	Beefsteak & kidney pie	Deficient in kidney	Manufacturer cautioned
3728	Toffee	Contained a piece of stone	Manufacturer cautioned
3729	Fruit and nut cake	Contained a nail	Manufacturer cautioned
3730	Loaf of bread	Contained a flake of paint	Manufacturer cautioned
3731	Sausages	Contained a piece of plastic	Manufacturer fined £10.

ATMOSPHERIC POLLUTION

The implementation of the provision of the Clean Air Act, 1956 once again occupied a proportion of the time of the public health inspectorate and 2,412 inspections were made under the Act.

8 notifications were received of 'intention to install' furnaces under Section 3 of the Act.

The Borough of Crewe No. 1 (Marshfield Bank and Wistaston Green) Smoke Control Order, 1960 covering some 270 acres on the westerly side of the borough, and affecting some 1,085 properties came into operation on the 1st October, 1962.

A second order, known as the Borough of Crewe No. 2 (Wistaston Green and The Valley) Smoke Control Order, 1964, which covers 208 acres and 1,028 properties in an area adjacent to and to the east of the first area, became operative on the 1st July, 1966.

The Borough of Crewe No. 3 (Ruskin Park) Smoke Control Order, 1966 became operative on the 1st July, 1967. This Order covers 224 acres and 1,670 properties in an area adjacent to and to the south east of No. 2 area.

The Borough of Crewe No. 4 (Nantwich Road South) Smoke Control Order, 1967, which covers 235 acres and 1,793 properties, became operative on the 1st July, 1969.

The department has, since 1949, in co-operation with the Ministry of Technology, made regular monthly recordings of the degree of air pollution throughout the borough. The analyses of the readings of the various stations are shown in the appended tables and graphs.

In 1961, Crewe was selected as one of 120 towns to take part in a National Survey of Atmospheric Pollution and five additional sets of instruments were installed at particular sites in the district, but one site at the College annexe, Railton Avenue, has now been discontinued.

The sites selected cover four types of district in accordance with the recommendations of the Ministry of Technology as follows:

Crewe Site

- |   |   |
|---|---|
| (A) Residential area with a high population density | Stalbridge Road Clinic  |
| (B) Industrial area                                 | Railway Works   |
| (C) Commercial area                                 | Rear of Municipal Buildings                                       |
| (D) Smoke control area                              | Sewages Works transferred to Queens Park Nursery, November, 1968. |

The results obtained are collated by the Warren Spring Laboratory of the Ministry of Technology.

VOLUMETRIC CONCENTRATION OF SMOKE  
IN THE ATMOSPHERE - YEAR 1969

Average daily concentration expressed as microgrammes  
per cubic metre

	A Residential Area, high population density			B Industrial Area			C Commercial Area			D Smoke Control Area		
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
Jan.	265	233	231	*	112	*	228	175	164	151	65	85
Feb.	189	310	267	71	209	219	123	254	255	*	107	111
March	125	168	227	*	89	*	*	126	191	21	40	107
April	*	116	112	92	*	72	106	85	92	37	7	43
May	*	128	98	57	94	56	78	108	71	27	31	29
June	48	54	51	42	51	35	*	41	35	14	19	24
July	32	61	26	21	*	27	*	53	23	9	18	13
Aug.	62	61	42	*	58	45	53	51	33	19	21	19
Sept.	115	83	77	67	*	52	85	42	48	30	31	25
Oct.	110	115	119	41	66	56	73	89	91	16	33	38
Nov.	317	212	149	168	*	72	225	167	109	104	72	39
Dec†	319	*	260	171	*	143	*	*	193	94	*	87

\* No results obtained

VOLUMETRIC CONCENTRATION OF SULPHUR  
DIOXIDE IN THE ATMOSPHERE - YEAR 1969

Average daily concentration expressed as microgrammes per cubic metre

	A Residential Area, high population density		B Industrial Area			C Commercial Area			D Smoke Control Area			
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
Jan.	145	113	81	*	119	*	282	115	39	166	69	*
Feb.	109	153	113	151	118	141	154	144	95	*	89	86
March	110	94	109	*	90	*	*	99	*	39	49	53
April	*	57	70	133	*	105	150	66	55	85	18	*
May	*	56	73	86	89	92	81	54	53	51	35	47
June	73	42	62	116	65	87	*	38	33	47	26	43
July	50	47	30	81	*	47	*	47	16	37	27	26
Aug.	40	40	50	*	60	66	44	44	46	26	35	42
Sept.	57	52	65	103	*	109	60	42	50	34	28	39
Oct.	46	53	93	84	75	93	55	41	63	22	28	50
Nov.	141	83	108	195	*	83	142	52	75	83	44	49
Dec.	140	*	164	133	*	112	*	*	112	66	*	101

\* No results obtained

ATMOSPHERIC POLLUTION - DEPOSITED MATTER 1969

Average daily (undissolved) deposit in mg/sq. metre

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			QUEENS PARK NURSERY <sup>+</sup>			ELM DRIVE			CREWE GATES FARM		
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
January	76	56	50	76	56	46	19	16	52	*	86	66	27	*	33
February	70	64	147	73	64	146	50	28	148	102	136	192	37	*	*
March	127	83	56	77	83	49	30	32	33	107	59	113	61	*	24
April	84	48	90	100	47	108	75	44	34	164	69	92	53	52	56
May	88	87	66	85	99	91	*	36	35	87	97	92	60	55	60
June	86	127	41	96	123	46	59	110	30	109	122	54	*	121	61
July	66	56	49	59	63	55	42	26	22	119	50	36	50	94	67
August	39	45	56	43	52	70	252	81	52	26	51	51	23	44	53
September	56	43	52	61	93	66	49	53	60	44	36	23	30	45	114
October	40	52	60	40	67	56	54	32	20	28	36	49	42	43	34
November	62	46	49	62	53	66	35	64	26	128	40	70	*	32	39
December	49	44	53	49	111	65	38	48	52	130	100	147	*	71	88
TOTAL	843	751	769	821	911	864	703	570	564	1044	882	985	383	557	629
AVERAGE MONTHLY	70	63	64	68	76	72	64	47	47	95	73	82	43	62	57

\*No result obtained owing to damage to equipment

+This site changed from SEWAGE WORKS in October 1968

ATMOSPHERIC POLLUTION - YEAR 1969

Sulphur Dioxide by the Lead Peroxide Method  
 Results expressed as mg./SO<sub>2</sub>/day/100 sq.c.m. of Batch  
 "A" Lead Peroxide exposed under a louvered cover

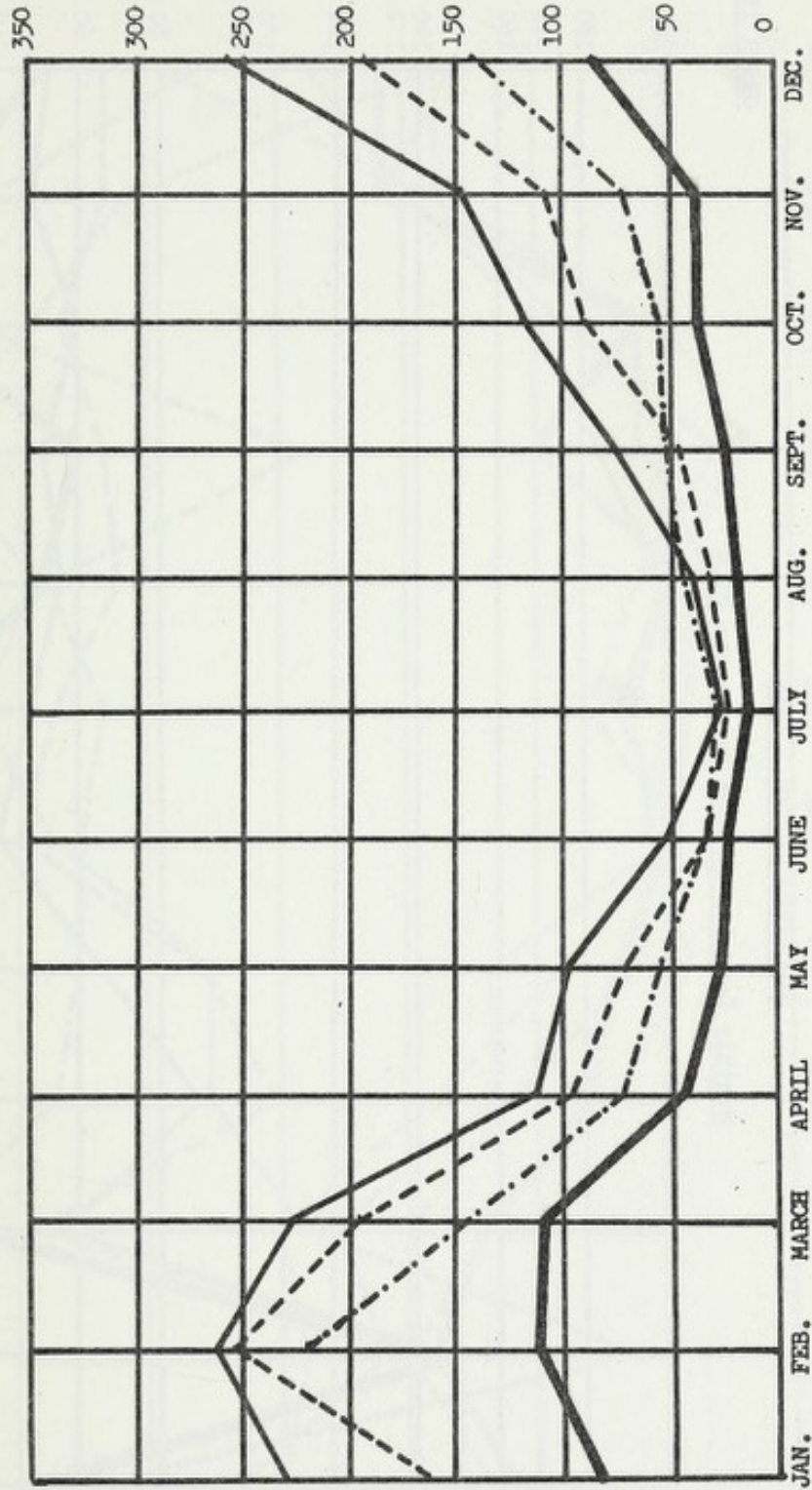
	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			QUEENS PARK NURSERY			ELM DRIVE			CREWE GATES FARM		
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
January	1.38	1.57	2.20	1.50	2.45	2.00	0.49	0.71	1.10	0.60	1.87	1.20	1.10	*	1.30
February	2.06	1.79	1.60	2.06	2.00	1.90	0.75	0.87	1.40	1.21	1.35	1.50	1.46	*	1.30
March	0.73	1.68	1.80	1.58	2.31	2.00	0.03	*	1.20	0.91	0.84	1.20	1.10	*	1.50
April	1.51	1.81	1.15	1.83	1.49	1.40	0.72	1.85	0.80	0.94	1.30	0.70	0.95	2.21	1.10
May	1.33	0.10	1.20	1.66	0.20	0.90	0.51	0.15	0.70	0.73	0.20	0.40	0.67	0.20	0.60
June	0.80	0.56	0.45	0.77	0.57	0.45	0.33	1.06	0.45	0.22	0.32	0.60	0.26	0.61	0.55
July	0.51	0.76	0.70	0.45	0.98	0.80	0.14	0.39	0.40	0.23	0.43	0.50	0.30	0.55	0.65
August	0.45	0.72	0.50	1.45	0.61	0.60	0.40	0.32	0.40	0.78	0.38	0.30	0.53	0.45	0.50
September	0.94	0.60	*	0.93	0.80	0.30	0.42	0.45	1.00	0.37	0.35	0.60	0.50	0.70	0.20
October	0.44	1.10	1.00	0.45	1.10	0.90	*	*	0.60	0.48	0.60	0.60	0.48	0.60	0.50
November	2.28	1.40	1.50	2.61	2.80	1.40	1.14	0.70	1.50	1.69	1.30	1.40	*	0.70	1.60
December	1.10	2.10	1.90	1.40	1.80	2.50	0.54	1.50	1.60	1.11	1.10	1.40	*	1.50	1.30
TOTAL	13.53	14.19	14.00	16.69	17.11	15.15	5.47	8.00	11.25	9.27	10.04	10.40	7.35	7.52	11.10
MONTHLY AVERAGE	1.13	1.18	1.27	1.39	1.43	1.26	0.50	0.80	0.94	0.77	0.84	0.87	0.74	0.84	0.93

\* No results obtained

VOLUMETRIC CONCENTRATION OF SMOKE IN THE  
ATMOSPHERE - YEAR 1969

GRAPH I

Average daily concentration expressed as  
microgrammes per cubic metre

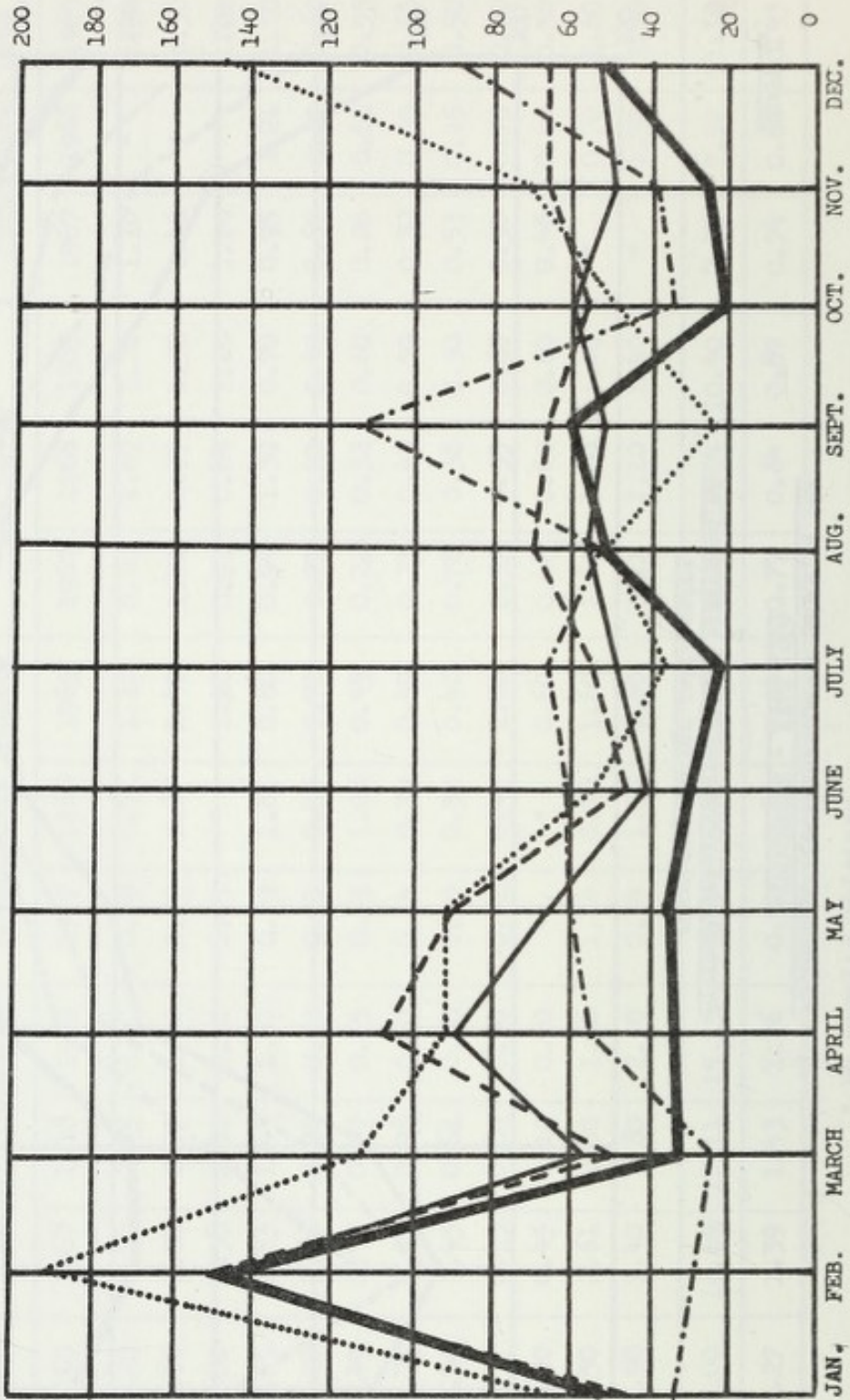


Residential Area, high population density  
Industrial Area  
Commercial Area  
Smoke Control Area



GRAPH II

DEPOSITED MATTER - 1969  
Monthly Deposits in Tons per square mile



Ashbank Stores

Imperial Chambers

Queens Park Nursery

Elm Drive

Crewe Gates Farm

ATMOSPHERIC POLLUTION - SULPHUR DIOXIDE DEPOSITS 1969

GRAPH III

Results expressed as  $Mg. SO_3 / Day / 100 \text{ sq. cm. of Hatch}$

'A' Lead Peroxide exposed under a louvered cover

