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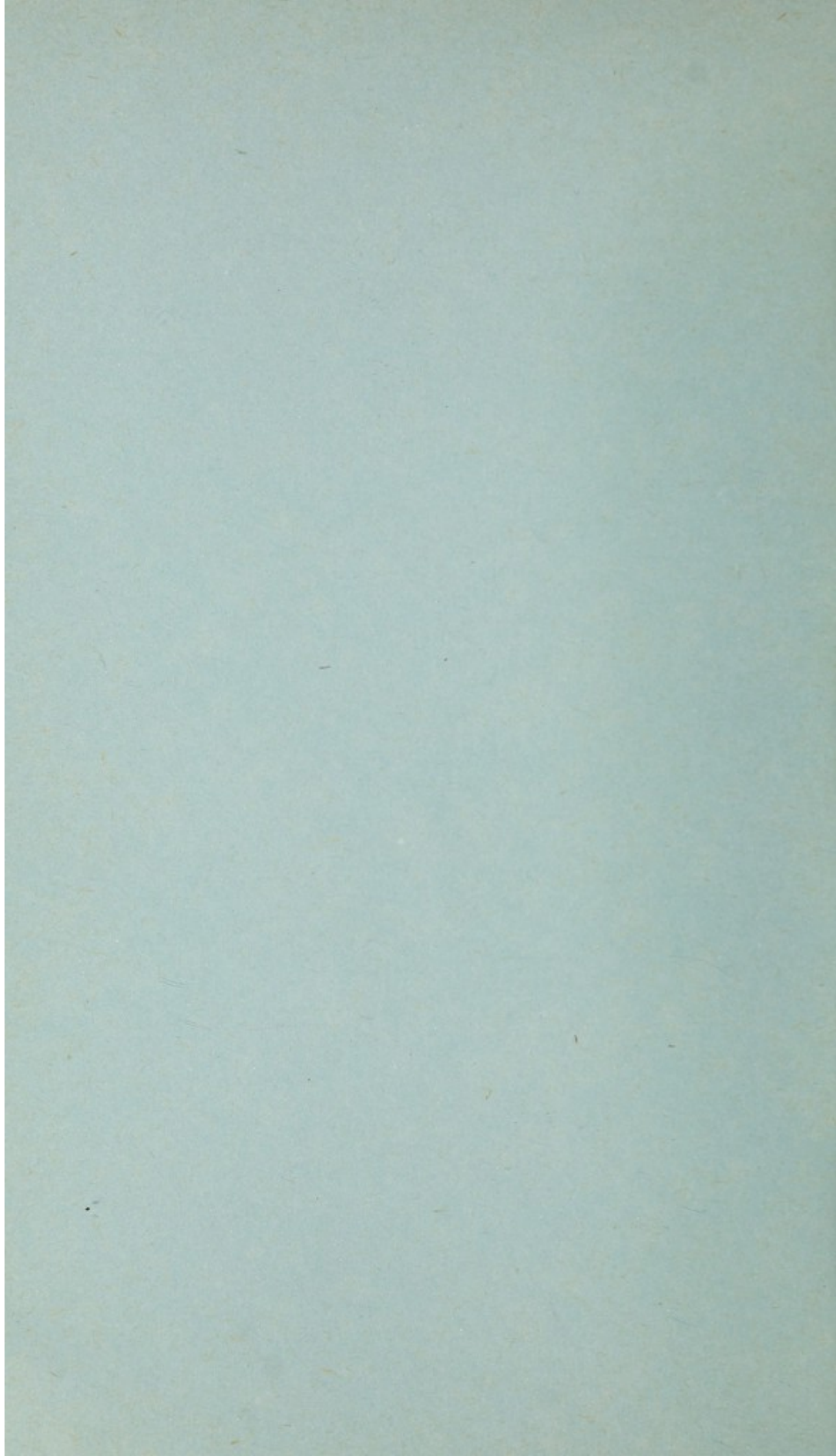
ANNUAL REPORT
OF THE
Medical Officer of Health
AND THE
Chief Public Health Inspector
FOR THE YEAR 1965

D. G. CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H.

Medical Officer of Health

JOHN GASKELL, M.Inst., P.C., F.R.S.H., F.A.P.H.I.

Chief Public Health Inspector



BOROUGH OF CREWE

HEALTH COMMITTEE

BOROUGH OF CREWE

ANNUAL REPORT


of the

MEDICAL OFFICER OF HEALTH

and the

CHIEF PUBLIC HEALTH INSPECTOR

1965



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B O R O U G H O F C R E W E

HEALTH COMMITTEE

Chairman:

Alderman J. Perry

Members:

THE WORSHIPFUL THE MAYOR -

Councillor J.O. Hughes J.P.

Alderman W.R. Foulkes, J.P., C.C.

Alderman H. Kent

Alderman S. Orwell

Councillor E.W. Allcock

Councillor A.J. Beckett

Councillor J.A. Clews

Councillor F. Holme

Councillor Mrs. B.J. Holt

Councillor D. Holt

Councillor A.G. Merrill

Councillor T.F. Rumley

Councillor M. Scholes

Councillor H.L. Shore

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.)
(1.2.4.5.6.)

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

CHIEF PUBLIC HEALTH INSPECTOR'S DEPARTMENT

J. GASKELL Chief Public Health Inspector
(1.2.4.5.6.7.) Inspector under the Diseases of Animals Acts

R.E. PLATT Deputy Chief Public Health Inspector
(1.2.6.)

D.W. COOKE Public Health Inspector
(1.2.5.6.)

R.D. COLLIER Public Health Inspector
(1.2.5.)

E.H. PEET Public Health Inspector
(1.2.)

W.E. FEATHERSTONE Public Health Inspector (resigned 8.5.65.)
(1.2.5.)

F.E. WESTON Public Health Inspector
(3)

D.S. WHITE Technical Assistant (commenced 23.8.65.)
(8)

B. JOYNSON Pupil Public Health Inspector

P.H. WILLIAMS Pupil Public Health Inspector

T.C. SIMPSON Chief Administrative Assistant

R.J. BLEASE Clerk

MRS. J. ADAMS Shorthand Typist

MISS J. WARBURTON Shorthand Typist

1. Public Health Inspector's Certificate (Royal Society of Health and Public Health Inspectors' Examination Joint Board).
2. Meat and Food Inspector's Certificate of the Royal Society of Health.
3. Diploma of Public Health Inspectors Education Board for appointment as Public Health Inspector.
4. Certificate in Sanitary Science as applied to Buildings and Public Works of the Royal Society of Health.
5. Smoke Inspector's Certificate of the Royal Society of Health.
6. Testamur of the Institute of Public Cleansing.
7. Associate Membership Examination of the Institution of Public Health Engineers.
8. Full Technological Certificate in Building.

October, 1966.

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

I have the honour to present to you my report on the health of the Borough of Crewe for the year 1965.

VITAL STATISTICS

During 1965, 16 infants died before reaching the age of 1 year and the infantile mortality rate of 16.4 per 1,000 live births is the lowest ever recorded for the Borough. 8 of these deaths occurred during the first month of life. The total number of births (975) shows approximately 5% reduction on the 1964 figure and is the first reduction following 10 years steady increase from 718 in 1955 to 1023 in 1964. The illegitimate live birth rate of 6.05% (59 in number) is much nearer the national average figure than in 1964 when it was almost 9% (90) in number. The live birth rate of 18.4 is slightly higher than the national figure for England and Wales (18.0).

The total number of deaths 653, shows an increase on the 1964 figure of 616. The ten year average figure is approximately 600, and is comparable as our population has remained static. The corrected death rate 14.43 is high compared with the national figure 11.5 for England and Wales. 245 of these deaths occurred to persons aged 75 years or over. 17 were attributed to accidents, 9 being motor vehicle accidents, and 4 persons committed suicide. Of the 120 deaths attributed to cancer, 26 were primary lung cancers.

INFECTIOUS DISEASES

The notified incidence of measles (403) shows only a small reduction on the 1964 figure (524). This disease usually shows a 2 year epidemicity - notified incidence in preceeding years is as follows:- 1963 - 866; 1962 - 67; 1961 - 908; 1960 - 41; 1959 - 1081. The whooping cough figure (3) is very low indeed and probably reflects the high incidence in 1964 when 309 cases were notified. No case of either poliomyelitis or diphtheria was notified.

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 1965	52,870
Number of Inhabited Houses (1st April, 1965)	17,512
Rateable Value (1st April, 1965)	£1,928,210
Sum Represented by Penny Rate	£7,675

VITAL STATISTICS FOR THE YEAR 1965

MOTHERS & INFANTS

LIVE BIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	480	436	916
Illegitimate	25	34	59
	<u>505</u>	<u>470</u>	<u>975</u>

Rate per 1,000 population 18.44

Illegitimate Live Births (per cent. of total live births) 6.05%

STILLBIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	8	13	21
Illegitimate	1	1	2
	<u>9</u>	<u>14</u>	<u>23</u>

Rate per 1,000 Total Live and Stillbirths 23.04

Total Live and Stillbirths

<u>Males</u>	<u>Females</u>	<u>Total</u>
514	484	998

Infant Deaths (deaths under one year)

<u>Males</u>	<u>Females</u>	<u>Total</u>
8	8	16

INFANT MORTALITY RATES

Total infant deaths per 1,000 total live births	...	...	16.41
Legitimate infant deaths per 1,000 legitimate live births			16.37
Illegitimate infant deaths per 1,000 illegitimate live births			16.95

NEO-NATAL MORTALITY RATE

(Deaths under 4 weeks per 1,000 total live births)	...	8.20
--	-----	------

EARLY NEO-NATAL MORTALITY RATE

(Deaths under 1 week per 1,000 total live births)	...	7.18
---	-----	------

PERINATAL MORTALITY RATE

(stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths)	30.06
---	-----	-----	-----	-------

MATERNAL MORTALITY (including abortion)

Number of deaths	Nil
Rate per 1,000 total live and stillbirths	-				

DEATHS - GENERAL

REGISTERED DEATHS

<u>Males</u>	<u>Females</u>	<u>Total</u>
347	310	657

DEATH RATE

(Deaths per 1,000 population)	12.43
-------------------------------	-----	-----	-----	-----	-------

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY,
MATERNAL MORTALITY AND CASE RATES FOR CERTAIN
INFECTIOUS DISEASES IN THE YEAR 1965

(Provisional figures based on weekly and quarterly returns)

								CREWE
								Rates per 1,000 of the Population
BIRTHS -								
Live	...	...	...	...	...	...	...	18.44
Still	...	...	...	...	...	...	...	0.43
DEATHS -								
All causes	...	...	...	...	...	...	...	12.43
Typhoid & Paratyphoid Fevers	...	...	...	...	...	...	...	-
Whooping Cough	...	...	...	...	...	...	...	-
Diphtheria	...	...	...	...	...	...	...	-
Tuberculosis (all forms)	...	...	...	...	...	...	...	0.019
Influenza	...	...	...	...	...	...	...	-
Smallpox	...	...	...	...	...	...	...	-
Acute Poliomyelitis, including Polioencephalitis	...	...	...	...	...	...	...	-
Pneumonia (including pneumonia of Newborn)	...	...	...	...	...	...	...	0.38
								Rates per 1,000 Live Births
Under 1 year of age (all causes)	...	...	...	...	...	...	...	16.41
Gastro-Enteritis, Colitis (except ulcerative) and Diarrhoea under 2 years of age	...	...	...	...	...	...	...	2.05
								Rates per 1,000 of the Population
NOTIFICATIONS (Corrected) -								
Typhoid Fever	...	...	...	...	...	...	...	-
Paratyphoid Fever	...	...	...	...	...	...	...	-
Meningococcal Infection	...	...	...	...	...	...	...	-
Scarlet Fever	...	...	...	...	...	...	...	1.07
Whooping Cough	...	...	...	...	...	...	...	0.05
Diphtheria	...	...	...	...	...	...	...	-
Erysipelas	...	...	...	...	...	...	...	0.03
Smallpox	...	...	...	...	...	...	...	-
Measles	...	...	...	...	...	...	...	7.62
Acute Poliomyelitis including Polioencephalitis	...	...	...	...	...	...	...	-
Paralytic	...	...	...	...	...	...	...	-
Non-Paralytic	...	...	...	...	...	...	...	-
Food Poisoning	...	...	...	...	...	...	...	-
Puerperal Pyrexia	...	...	...	...	...	...	...	0.018
Ophthalmia Neonatorum	...	...	...	...	...	...	...	-
Dysentery	...	...	...	...	...	...	...	0.15
Pneumonia	...	...	...	...	...	...	...	0.018

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 1965

(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		18.44	
Live Births (corrected by comparability factor)		18.62	18.0
Deaths (all causes) actual		12.43	
Deaths (all causes) (corrected by comparability factor)		14.47	11.5
Per 1,000 total (Live and Still) Births			
Stillbirths		23.04	15.7
Per 1,000 Live Births			
Deaths under 1 year of age ...		16.41	19.0

COMPARATIVE STATISTICS 1955 - 1965

Year	Esti- mated Popu- lation	Live Births		Stillbirths		Deaths		Infant Deaths				Maternal Deaths			
		No.	Rate per 1,000 Esti- mated Popu- lation	No.	Rate per 1,000 Total 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
1955	51,580	718	13.9	20	27.1	574	11.1	16	9	25	34.8	-	-	-	-
1956	51,510	758	14.7	24	30.69	525	10.2	14	5	19	25.07	-	-	-	-
1957	51,490	785	15.2	20	24.84	576	11.2	14	7	21	26.8	-	-	-	-
1958	51,370	791	15.4	29	35.3	616	12.05	11	8	19	24.02	-	2	2	2.4
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	-	-	-	-

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1965 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+
1. Tuberculosis, Respiratory	M F	- 1	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- 1
3. Syphilitic Disease	M F	3 -	- -	- -	- -	- -	- -	- -	- -	- -	- -	1 -	2 -
9. Other Infective & Parasitic Diseases	M F	- 2	- -	- -	- -	- 2	- -	- -	- -	- -	- -	- -	- -
10. Malignant Neoplasm, Stomach	M F	12 6	- -	- -	- -	- 1	- -	1 1	3 -	10 2	- -	9 -	- -
11. Malignant Neoplasm, Lung, Bronchus	M F	23 3	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
12. Malignant Neoplasm, Breast	M F F	- 11 8	- - -	- - -	- - -	- - -	- - -	- 1 1	- 2 1	- 3 3	- 4 1	- -	1 2
13. Malignant Neoplasm, Uterus													
14. Other Malignant & Lymphatic Neoplasms	M F	30 26	- -	- -	- -	- -	- -	- 1	6 4	9 7	10 7	5 6	
15. Leukaemia, Aleukaemia	M F	- 1	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
16. Diabetes	M F	1 2	- -	- -	- -	- -	- -	- -	- -	- -	- -	- 1	1 1

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1965 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+
17. Vascular Lesions of Nervous System	M	54	-	-	-	-	-	-	3	5	9	18	19
	F	70	-	-	-	-	-	-	2	5	7	13	43
18. Coronary Disease, Angina	M	79	-	-	-	-	-	-	3	7	26	28	15
	F	51	-	-	-	-	-	-	-	3	10	18	20
19. Hypertension With Heart Disease	M	2	-	-	-	-	-	-	-	-	2	-	-
	F	3	-	-	-	-	-	-	-	-	1	2	-
20. Other Heart Disease	M	28	-	-	-	-	-	-	2	1	1	6	18
	F	35	-	-	-	-	-	2	1	2	1	11	18
21. Other Circulatory Disease	M	7	-	-	-	-	-	-	-	1	1	4	1
	F	13	-	-	-	-	-	-	-	-	2	4	7
23. Pneumonia	M	11	1	1	1	-	-	-	-	-	3	1	5
	F	9	-	1	1	-	-	-	-	-	1	3	3
24. Bronchitis	M	33	-	-	-	-	-	-	-	1	6	15	11
	F	10	-	-	-	-	-	-	-	-	2	3	5
25. Other Diseases of Respiratory System	M	2	-	-	-	-	-	-	1	-	-	-	1
	F	2	-	-	-	-	-	-	-	-	-	-	2
26. Ulcer of Stomach and Duodenum	M	4	-	-	-	-	-	-	-	-	2	1	1
	F	2	-	-	-	-	-	-	-	-	-	1	1
27. Gastritis, Enteritis & Diarrhoea	M	6	-	1	1	-	-	-	1	-	-	2	2
	F	1	-	1	1	-	-	-	-	-	-	-	-

Cont'd

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1965 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+			
28. Nephritis & Nephrosis	M	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	F	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
29. Hyperplasia of Prostate	M	4	-	-	-	-	-	-	-	-	-	2	-	-	2	-
31. Congenital Malformations	M	3	-	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-
32. Other Defined and Ill-Defined Diseases	M	33	2	1	-	1	-	1	2	3	-	3	2	18	24	-
	F	41	4	-	-	-	1	1	-	-	-	4	8	-	-	-
33. Motor Vehicle Accidents	M	6	-	-	-	-	-	3	2	-	1	-	-	-	-	-
	F	3	-	-	-	-	-	-	-	-	1	-	1	-	1	-
34. All Other Accidents	M	4	-	1	-	-	1	-	-	-	1	-	-	-	1	-
	F	4	-	-	-	-	1	-	-	-	-	-	1	-	1	-
35. Suicide	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL ALL CAUSES	M	347	3	5	1	1	4	2	15	29	79	102	106			
	F	310	5	3	2	1	-	7	7	21	46	79	139			

DEATHS OF CREWE INFANTS UNDER 1 YEAR OF AGE DURING 1965

CAUSE OF DEATH	Under 1 Day	DAYS										MONTHS										ALL
		1	2	3	4	5	6	7	14	21 to 28	1	2	3	4	5	6	7	8	9	10	11 to 12	
Pneumonia	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	3
Gastritis, Enteritis & Diarrhoea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2
Congenital Malformations	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	3
Other Defined & Ill Defined Diseases	2	1	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	7
All Other Accidents	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
TOTAL	2	1	2	2	-	-	-	-	-	1	2	1	1	-	-	-	1	1	2	-	-	16

NOTIFIED INFECTIOUS DISEASES 1965 : Civilian (Corrected in cases of revised diagnosis)

	Under 1 year	1-2 years	2-3 years	3-4 years	4-5 years	5-10 years	10-15 years	15-20 years	20-25 years	25-35 years	35-45 years	45-65 years	Over 65 years	Total
Scarlet Fever	-	2	1	4	8	33	8	-	1	-	-	-	-	57
Whooping Cough	1	1	-	1	-	-	-	-	-	-	-	-	-	3
Measles	17	51	55	57	54	158	8	3	-	-	-	-	-	403
Erysipelas	-	-	-	-	-	-	-	-	-	-	-	2	-	2
Dysentery	-	-	-	2	-	2	-	-	1	2	-	1	-	8
Acute Pneumonia	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Puerperal Pyrexia	-	-	-	-	-	-	-	1	-	-	-	-	-	1
TOTAL	18	54	56	64	62	193	16	4	2	2	-	4	-	475

TUBERCULOSIS

Particulars of New Cases of Tuberculosis and
Deaths During 1965

Age Period	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	-	1	-	-	-	-	-	-
20 years - 24 years	-	1	-	-	-	-	-	-
25 years - 34 years	-	1	-	-	-	-	-	-
35 years - 44 years	2	2	-	-	-	1	-	-
45 years - 54 years	3	-	-	-	-	1	-	-
55 years - 64 years	1	-	-	-	1	-	-	-
65+	2	-	-	-	1	-	-	-
Total	8	5	-	-	2	2	-	-

Particulars of New Cases and Deaths
During the Last Five Years

Year	New Cases		Deaths	
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
1961	16	3	6	-
1962	19	2	7	-
1963	8	3	2	-
1964	12	1	6	-
1965	13	-	4	-

The following is a summary of the four quarterly returns which are rendered to the County Medical Officer, and which indicate the number of cases remaining on the register at 31st December, 1965.

	Pulmonary		Non-Pulmonary	
	M	F	M	F
No. of cases on Register of Notifications on 1st Jan. 1965	107	65	9	6
No. of cases notified for the first time during the year	8	5	-	-
No. of cases transferred from other districts	1	2	-	-
No. of cases restored to Register	-	1	-	-
No. of cases removed from Register during the year on account of having				
(a) Recovered	17	13	1	-
(b) Removed from district	1	3	-	-
(c) Died	2	2	-	-
(d) Diagnosis not established	-	-	-	-
(e) Lost sight of	1	-	-	-
No. of cases remaining on the Register on 31st December, 1965	95	55	8	6

Of the 4 cases listed under (c) above, only one died from tuberculosis and 3 from other primary causes.

VACCINATION AND IMMUNISATION

Vaccination Against Smallpox

The number of vaccinations reported to me during the year was 292, showing a decrease of 89 on the previous year.

	Year of Birth					Total
	1965	1964	1963-1961	1960-1951	Others under 16 years of age	
Vaccinated	68	130	78	8	-	284
Re-Vaccinated	-	-	2	5	1	8

Supplementary Information Regarding Children Vaccinated Under 1 Year of Age

	0 - 3 mths	3 - 6 mths	6 - 9 mths	9 - 12 mths
No. Vaccinated	48	43	7	20

Diphtheria Immunisation

During the year cards received from Medical Practitioners showed that 774 children were immunised against diphtheria. In addition, 348 children received a boosting dose to improve their immunity.

The corresponding figures for 1964 were 624 and 233.

No case of diphtheria was notified during 1965 and it is now 15 years since a case of diphtheria has been notified in the Borough.

Diphtheria, Whooping Cough, Tetanus & Poliomyelitis
Vaccinations of Persons under 16 years of age
Completed During 1965

A. Completed primary courses - Number of persons under 16.

Type of Vaccine	1965	1964	1963	1962	1958-61	Others under age 16	At Clinics	By G.P's
Quadruple	10	19	2	2	3	-	-	36
Triple	235	392	49	22	22	2	-	722
Diphtheria/Pertussis	-	-	-	-	-	-	-	-
Diphtheria/Tetanus	-	-	-	4	9	-	-	13
Diphtheria	-	-	-	-	1	2	-	3
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	-	-	8	9	-	17
Salk	-	3	2	-	2	7	-	14
Sabin	139	445	127	67	130	33	43	898

B. Reinforcing Doses - Number of Persons under 16.

Type of Vaccine	1965	1964	1963	1962	1958-61	Others under age 16	At Clinics	By G.P's
Quadruple	-	1	5	1	3	-	-	10
Triple	-	2	15	5	230	12	-	264
Diphtheria/Pertussis	-	-	-	-	-	-	-	-
Diphtheria/Tetanus	-	3	3	2	59	4	-	71
Diphtheria	-	-	-	-	99	-	96	3
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	-	-	7	11	-	18
Salk	-	-	-	1	3	-	-	4
Sabin	-	6	6	9	383	163	121	446

MEDICAL EXAMINATIONS

During the year, 262 persons were medically examined. Of these 72 were examined in conjunction with the Corporation's Superannuation and Sickness Pay Schemes, 174 were County Staff or persons seeking entry into a Training College and 16 were of persons applying for a Taxi Driver's Licence.

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 54 bodies received at the Crewe Memorial Hospital Mortuary.

CREWE AND DISTRICT COMMITTEE FOR MORAL WELFARE WORK (ST. HILDA'S)

In connection with the voluntary work carried out by the above Committee I quote below an extract from Rev. E.C.W. Parry-Williams, Chairman's letter prefacing the 1965 Annual Report of the Committee. It must be borne in mind that the Committee's activities cover a larger area than the Borough of Crewe.

"There were 116 new cases during 1965. 69 illegitimate births; of these 69 mothers, 18 went into the Home at Hoylake, 11 went into Moral Welfare Homes, 40 stayed at home and went into the local hospitals. 33 babies were adopted; 31 girls kept their babies; and 5 babies were taken into care."

FOOD POISONING

No case of food poisoning was notified during the year.

SECTION 47 NATIONAL ASSISTANCE ACT 1948

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

ANNUAL REPORT OF
THE CHIEF PUBLIC HEALTH INSPECTOR
FOR THE YEAR 1965

Chief Public Health Inspector's
Department,
Municipal Buildings,
C R E W E.

November, 1966.

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

Mr. Mayor, Ladies and Gentlemen,

I have the honour to present my eighteenth annual report on the work of the public health inspectorate.

In the field of housing satisfactory progress has been made with slum clearance. Applications for housing improvement grants (59) whilst showing a slight increase (4) still fall short of a desirable target figure. There are a considerable number of houses in the borough suitable for improvement and I appeal to the owners to make full use of the grant provisions.

The department is responsible for the enforcement of the health, safety and welfare provisions of the Offices, Shops and Railway Premises Act, 1963. The period under review presents the first complete year of the working of the Act. The total number of premises registered at the year end was 573 in which 3,736 persons were employed. The public health inspectors paid 504 visits, made 218 general inspections, found 412 contraventions and investigated 24 accidents. The standard of cleanliness and lighting of premises, apart from some stockrooms or passages, was generally satisfactory. The contraventions relating to sanitary conveniences and washing facilities were in the main concerned with defects rather than insufficiency.

The implementation of the Clean Air Act 1956 as it relates to the establishment of smoke control areas in the Borough has progressed according to plan. Two smoke control orders covering in all some 478 acres and 2,113 premises are now in operation and a third area of 223 acres and 1,670 premises will be operative from the 1st July, 1967. The Act has now been in operation some ten years and it is interesting to take account of the smoke control progress over this period. As at the 30th June, 1966 the number of acres covered by smoke control orders (confirmed or awaiting confirmation) in England and Wales was 555,679 and the number of premises 2,991,329. The Greater London area maintains its long lead over other regions and has now passed the half-way mark. Despite the progress made the Chief Alkali Inspector reports that

industry has advanced more rapidly in smoke control than the domestic side. There is too an increasing public awareness of air pollution as a social evil which can only be overcome by a progressive smoke control policy vigorously pursued.

The department continued to co-operate with the Ministry of Technology (formerly the Department of Scientific and Industrial Research) 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 express my thanks to His Worship the Mayor, The Chairman and Members of the Health Committee, members of the staff and to other officers and their staffs for their co-operation.

I have the honour to be,

Your obedient servant,

J. GASKELL,

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.

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

Household refuse collected	...	...	...	13,166 tons
Trade refuse collected	...	...	...	2,001 tons
				<hr/>
Total refuse collected by the Department during the year				15,167 tons
				<hr/>

2,911 tons of shop and factory refuse were also brought to the Refuse Disposal Works for disposal, making a total of 18,078 tons of refuse dealt with during the year. 58.1% 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.

Mr. Delwyn Davies, B.Sc.(Eng) M.I.C.E., M.I.W.E., A.M.B.I.M., Chief Officer of the Board has supplied the following information relating to the supply.

During 1965, 32 samples were taken by the Water Board in Crewe. On examination 5 samples proved to be unsatisfactory.

The water supply has been satisfactory in quantity but difficulty was experienced with an infestation of *Asellus Aquaticus* in the late Summer and early Autumn.

Asellus Aquaticus was eliminated from the system by dosing with .01 ppm of pyrethrin for 12 days.

Bacteriological examinations of raw and treated water are made weekly. Without exception the water leaving the works has been thoroughly satisfactory.

A copy of a typical chemical analysis of the water delivered to Crewe from Hurleston is given below:

Source of supply to consumers	R. Dee Hurleston Works
Daily volume in million gallons	6 to 7
No. of samples and period over which they have been collected	50 in 13 months (1.1.65 - 1.2.66 inclusive)
Colour	not more than 5 Hazen
Reaction pH	from 7.4 to 8.4
Electrical conductivity at 25°	from 206 to 470 umhos
Hardness as Ca CO ₃	
Total	from 81 to 204 ppm.
Non-carbonate	from 33 to 100 ppm.
Alkalinity as Ca CO ₃	from 42 to 104 ppm.
Chlorides expressed as chlorine	from 17.5 to 34.3 ppm.
Ammoniacal nitrogen	up to 0.01 ppm.
Albuminoid nitrogen	from 0.04 to 0.17 ppm.
Nitrate nitrogen	from 0.2 to 3.8 ppm.
Oxygen absorbed from permanganate in 4 hrs. at 27°C.	from 0.55 to 1.84 ppm.
Iron	from 0.01 to 0.06 ppm.
Manganese	less than 0.01 ppm.
Aluminium	from 0.01 to 0.10 ppm.
Residual chlorine	from 0.1 to 0.25 ppm.

In addition to the samples mentioned above, 42 samples of water were also submitted by my department for bacteriological and chemical examination and all but 5 proved satisfactory.

Immediate notification of unsatisfactory samples was made to the Water Board and further samples were satisfactory.

NUMBER AND NATURE OF COMPLAINTS

The Department received 914 complaints during the year from householders, shopkeepers and others relating to numerous matters, as set out in the table below.

NATURE OF COMPLAINT

Disrepair - General	...	...	...	...	...	...	...	32
Defective chimneys	...	...	...	...	...	...	...	12
Defective woodwork	...	...	...	...	...	...	...	6
Defective plasterwork	...	...	...	...	...	...	...	1
Defective floors	...	...	...	...	...	...	...	3
Defective roofs	...	...	...	...	...	...	...	12
Defective eaves gutters and pipes	...	...	...	...	...	...	...	6
Burst water pipes	...	...	...	...	...	...	...	12
Dampness	...	...	...	...	...	...	...	16
Defective water closets	...	...	...	...	...	...	...	18
Choked drains	...	...	...	...	...	...	...	250
Flooding	...	...	...	...	...	...	...	6
Accumulations	...	...	...	...	...	...	...	11
Dirty premises	...	...	...	...	...	...	...	12
Vermin	...	...	...	...	...	...	...	3
Beetles and cockroaches	...	...	...	...	...	...	...	10
Ants	...	...	...	...	...	...	...	5
Rats	...	...	...	...	...	...	...	308
Mice	...	...	...	...	...	...	...	118
Foul and obnoxious odours	...	...	...	...	...	...	...	22
Smoke nuisances	...	...	...	...	...	...	...	4
Miscellaneous	...	...	...	...	...	...	...	28
Water supply	...	...	...	...	...	...	...	19

914

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)	360	179	62	194	47	-
Dwellinghouses (Hsg.Act)	510	-	-	-	-	-
Rapid Housing Survey	68	-	-	-	-	-
Improvement Grants	444	-	-	-	-	-
Rent Act Certificates	20	-	-	-	-	-
Back to back houses	-	-	-	-	-	-
Verminous houses	118	-	-	-	-	-
Tents, Vans and Sheds	23	-	-	-	-	-
Yards and passages	30	-	-	-	-	-
Drains and sewers	2041	-	684	684	-	-
Ditches and watercourses	30	2	-	2	-	-
Offensive accumulations	63	-	-	-	-	-
Keeping of animals	24	2	-	2	-	-
Offensive trades	50	-	-	-	-	-
Place where food is prepared or sold	671	122	-	45	77	1
Factories -						
with mechanical power	51	3	-	2	1	-
with no mechanical power	6	-	-	-	-	-
Workplaces	2	-	-	-	-	-
Outworkers	2	-	-	-	-	-
Common lodging houses	146	-	-	-	-	-
Shops under Shops Act	102	35	-	30	5	-
O.S.R.P. Act	504	172	-	42	130	-
Clean Air Act	2140	-	-	-	-	-
Infectious Diseases -						
(Enquiries and revisits)	57	-	-	-	-	-
Houses re overcrowding	13	-	-	-	-	-
Milk samples	186	-	-	-	-	-
(Bacteriological exam.)						
Ice Cream samples	55	-	-	-	-	-
Water supply and samples	236	-	-	-	-	-
Food and Drugs Act -						
(incl. samples)	174	-	-	-	-	5
Applicants for Corporation houses	120	-	-	-	-	-
Rodent Control	182	-	-	-	-	-
Miscellaneous	1512	-	-	-	-	1
Re-inspections	1123	-	-	-	-	-
TOTALS	11,053	515	746	1,001	260	7

INFECTIOUS DISEASE AND DISINFECTION

Number of premises visited where a notifiable disease
has occurred 47

Number of Library Books disinfected -

(a) from Public Library 35
(b) from Private Libraries Nil ... 35

DISINFESTATION

The following table shows the number of premises treated during 1965.

	Number found to be infested		Number of Premises Disinfested
	Premises	Rooms	
Council Houses	4	14	4
Other Houses	6	22	6
Cases confirmed after complaint of infestation	2	-	-
Cases found by Public Health Inspectors	8	-	-
Houses disinfested by Corporation	-	-	10
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, 25 houses were treated for infestations of beetles and 27 houses for ants.

SWIMMING BATHS

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

During the year, 44 samples of bath water were submitted for bacteriological and chemical examination and 6 samples proved unsatisfactory, but subsequent samples proved satisfactory.

OFFENSIVE TRADES

The following offensive trades are carried on in the Borough.

Rag and Bone Dealers	...	...	...	...	2
Gut Scrapers	...	...	...	...	1
Bone Boiler and Fat Extractor	...	...	...	...	1

In addition to the above, 30 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 were two common Lodging Houses operating in the Borough until December, 1965 when both were closed. The following table shows the number of beds available at each house.

Situation				No. of beds	Accommodation available for
(1)	175 Market Street	...	...	10	Male and female
(2)	177 Market Street	...	...	26	Male
Total number of beds				36	

The number of persons who used the lodging houses during the year is given below with comparative figures for the two preceding years.

				<u>Adults</u>		<u>Children</u>	
				<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>
1965	...	...	...	2,428	351	-	-
1964	...	...	...	2,120	491	-	-
1963	...	...	...	4,643	387	-	-

HOUSING STATISTICS

Number of New Houses erected during the year:

(1) By the Local Authority	...	...	...	...	60
(2) By other authorities	...	...	...	...	2
(3) By other bodies or persons	...	...	...	...	71

1. Inspection of Dwelling Houses during the year:

(1) (a) Total number of houses inspected for housing defects (under Public Health Act or Housing Act) -

(i) On General Inspection	...	...	...	179
(ii) Slum Clearance	...	...	...	173
Total	...	...	...	352

(b) Number of inspections made for the purpose -

(i) General Inspections	...	...	...	360
(ii) Slum Clearance	...	...	...	510
Total	...	...	...	870

(2) (a) Number of dwelling houses (included under the sub-heading (1) above) which were inspected and recorded under the Housing Consolidation Regulations, 1925 -

(i) On General Inspections	...	...	...	-
(ii) Slum Clearance	...	...	...	173
Total	...	...	...	173

(b) Number of inspections made for the purpose -

(i) General Inspections	...	...	...	-
(ii) Slum Clearance	...	...	...	510
Total	...	...	...	510

(3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for habitation -

(i) On General Inspections	....	...	...	-
(ii) Slum Clearance	...	...	...	173
Total	...	...	...	173

Housing Statistics cont.

(4) Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation		179
2. <u>Remedy of Defects during the year 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		100
3. <u>Action under Statutory Powers during the Year</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		62
(2) Number of dwelling houses in which defects were remedied after service of formal notices -		
(a) By owners		44
(b) By Local Authority in default of owners		3
(c) Proceedings under Sections 16 and 17 of the Housing Act, 1957 -		
(1) Number of dwelling houses in respect of which demolition orders were made		1
(2) Number of dwelling houses demolished in pursuance of demolition orders		1

Housing Statistics cont.

3.	(c)	(3)	Number of undertaking to carry out works in lieu of demolition accepted by the Council	-
		(4)	Number of dwelling houses in respect of which closing orders were made	2
4.	<u>Housing Act 1957 - Part IV - Overcrowding</u>			
	(a)	(1)	Number of dwellings overcrowded at end of year... ..	4
		(2)	Number of families dwelling therein... ..	4
		(3)	Number of persons dwelling therein	38
	(b)		Number of new cases of overcrowding reported during the year	4
	(c)	(1)	Number of cases of overcrowding relieved during the year	2
		(2)	Number of persons concerned in such cases	16
	(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	No. of Properties in Area		Date of Representation or Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'Pink'	'Grey'				
1. <u>CLEARANCE AREAS:</u>						
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 and 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	No. of Properties in Area		Date of Representation or Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'Pink'	'Grey'				
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
	45	-	4/8/61	5/4/62	39	45
c/f	546	5	-	-	510	551

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'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	-
West Central Ward No. 1 (Peel Street) Clearance Order 1962	2	-	10/4/62	4/1/63	2	2
West Central Ward No. 2 (Dale Street) Clearance Order 1962	8	-	10/4/62	17/1/63	7	8
West Central Ward No. 3 (West Street/Stafford Street) Compulsory Purchase Order 1962	6	-	10/4/62	2/11/62	6	6
North East Ward No. 1 (Chapel Lane) Clearance Order 1962	64	8	10/4/62	9/4/63	55	67
Central Ward No. 12 (Oakley Street/Beech Street) Compulsory Purchase Order 1963	10	-	10/4/62	18/10/62	7	10
Central Ward No. 15 (Oakley Street/Beech Street) Clearance Order 1963	59	4	9/4/63	12/5/64	48	50
	19	-	9/4/63	12/5/64	13	-
c/f	718	17	-	-	652	696

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation or Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'Pink'	'Grey'				
b/f West Ward No. 7 (Collins Street) Clearance Order 1963 South East Ward No. 1 (Bridge Street) Compulsory Purchase Order 1963 West Central Ward No. 5 (Derby Street/ Grosvenor Street) Compulsory Purchase Order 1963 Borough of Crewe No. 14 (Mill Street/ Station Street) Compulsory Purchase Order 1965	718	17	-	-	652	696
	25	-	12/2/63	8/11/63	24	25
	27	1	12/3/63	14/1/64	24	28
	54	10	12/11/63	12/1/65	42	-
	229	32	12/1/65	-	-	-
2. <u>AREAS DEALT WITH INFORMALLY WITH THE APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT</u> Park Place	67	-	19/4/56	9/7/57	65	67
c/f	1120	60	-	-	807	816

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'Pink'	'Grey'				
3. HOUSES BELONGING TO THE CORPORATION ^{b/f} <u>AND DEMOLISHED WITH APPROVAL OF THE</u> <u>MINISTRY OF HOUSING AND LOCAL</u> <u>GOVERNMENT</u>	1120	60	-	-	807	816
During 1954	6	-	-	-	3	6
During 1956	3	-	-	-	2	3
During 1958	4	-	-	-	4	4
During 1959	3	-	-	-	2	3
During 1960	4	-	-	-	3	3
During 1961	1	-	-	-	1	1
During 1964	3	-	-	-	1	3
4. HOUSES DEALT WITH BY INDIVIDUAL <u>DEMOLITION OR CLOSING</u>						
(a) <u>Demolition Orders:</u>						
During 1955	1	-	-	-	1	1
During 1956	4	-	-	-	3	4
During 1957	9	-	-	-	6	9
During 1958	11	-	-	-	9	11
During 1959	14	-	-	-	12	14
c/f	1183	60	-	-	854	878

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/65	No. of properties demolished to 31/12/65
	'Pink'	'Grey'				
b/f	1183	60	-	-	854	878
4. HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING						
(a) Demolition Orders Cont:						
During 1960	3	-	-	-	2	2
During 1961	1	-	-	-	-	1
During 1963	5	-	-	-	4	4
During 1964	2	-	-	-	2	-
During 1965	1	-	-	-	-	1
(b) Closing Orders:						
During 1955	1	-	-	-	1	-
During 1956	1	-	-	-	-	-
During 1959	1	-	-	-	1	-
During 1960	7	-	-	-	7	2
During 1961	2	-	-	-	-	-
During 1962	6	-	-	-	5	-
During 1963	3	-	-	-	3	-
During 1964	1	-	-	-	1	-
During 1965	2	-	-	-	3	-
TOTALS	1219	60	-	-	883	888

IMPROVEMENT GRANTS

1.	Number of applications received to 31st December 1964 ...	361
	Number of applications received during the year ...	59
	Total applications received to 31st December, 1965 ...	420
2.	Number of applications approved to 31st December, 1964 ...	360
	Number of applications approved during the year ...	59
	Total applications approved to 31st December, 1965 ...	419
3.	Number of applications withdrawn to 31st December, 1964...	13
	Number of applications withdrawn during the year ...	1
	Total applications withdrawn to 31st December, 1965 ...	14
4.	Number of cases where work was completed by 31st December, 1964 ...	315
	Number of cases where work was completed during the year	49
	Total number of cases where work was completed by 31st December, 1965...	364
5.	Expenditure ranking for grant approved to 31st December, 1964 ...	£54,031.19.11d.
	Expenditure ranking for grant approved during the year ...	8,902. 4. 8d.
	Total expenditure ranking for grant approved to 31st December, 1965...	£62,934. 4. 7d.
6.	Expenditure on works and repairs not ranking for grant in cases approved to 31st December, 1964 ...	£21,240. 7. 6d.
	Expenditure on works and repairs not ranking for grant in cases approved during the year...	2,770.16. 6d.
	Total expenditure on works and repairs not ranking for grant in cases approved to 31st December, 1965 ...	£24,011. 4. 0d.
7.	Average grant per house ...	£75. 2. 0d.
8.	Number of grants repaid to 31st December, 1965 ...	18
	Total amount of grant repaid ...	£924. 9. 3d.

NOTE:- The above expenditure figures include the figures in respect of the applications approved but later withdrawn or repaid.

CERTIFICATES OF DISREPAIR

Rent Act 1957

Part I - Application for Certificates of Disrepair

Number of applications for certificates	...	...	...	...	4
Number of decisions not to issue certificates	...	...	...	...	NIL
Number of decisions to issue certificates -					
(a) in respect of some but not all defects	...	...	...	...	3
(b) in respect of all defects	...	...	...	...	1
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	...	...	...	...	3

Part II - Applications for Cancellation of Certificates

Number of applications by landlords to Local Authority for cancellation of certificates	...	...	...	...	NIL
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	...	...	...	...	NIL

FACTORIES ACT 1961

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

Particulars	Number on Register	Inspection	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	4	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	152	51	3	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding outworkers premises)	15	2	-	-
TOTAL	173	57	3	-

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
Want of Cleanliness (S.1.)	-	-	-	-
Sanitary Conveniences (S.7.)				
(a) Insufficient	-	-	-	-
(b) Unsuitable or defective	3	2	-	3
(c) Not separate for sexes	-	-	-	-
TOTAL	3	2	-	3

3. OUTWORKERS. Lists required by Section 110 were received relating to 76 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	7	116	28
Retail shops	39	387	160
Wholesale shops, warehouses	-	20	5
Catering establishments open to the public, canteens	10	48	25
Fuel storage depots	-	2	-
TOTALS	56	573	218

NUMBER OF VISITS OF ALL KINDS BY INSPECTORS TO REGISTERED PREMISES - 504

Analysis of persons employed in Registered Premises

Class of workplace	Number of persons employed
Offices	1,013
Retail shops	2,052
Wholesale departments, warehouses,	182
Catering establishments open to the public	451
Canteens	20
Fuel storage depots	18
Total	3,736
Total Males	1,289
Total Females	2,447

Exemptions and Prosecutions

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

Contraventions found

Premises requiring cleansing in some form	...	...	...	...	39
Provision of heating and/or thermometer	...	...	...	...	86
Inadequate ventilation	...	...	...	...	15
Defective or inadequate sanitary accommodation	...	...	...	...	86
Defective or inadequate washing facilities	...	...	...	...	49
Inadequate drinking water facilities	...	...	...	...	7
Absence of adequate facilities for storage of outdoor clothing					16
Lack of adequate eating facilities in shops	...	...	...	...	3
Defective floors, passages or staircases	...	...	...	...	26
Lack of First Aid equipment...	...	...	...	...	74
Overcrowding	...	...	...	...	4
Inadequate lighting	...	...	...	...	4
Sitting facilities	...	...	...	...	1
Fencing exposed parts of machinery	...	...	...	...	2

Accidents

25 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	16	15	-	-	4	12
Wholesale shops, warehouses	6	6	-	-	2	4
Catering establishments open to public, canteens	2	2	-	-	-	2
Fuel Storage Depots	-	-	-	-	-	-
TOTALS	25	24	-	-	6	19

Analysis of Reported Accidents

	Offices	Retail shops	Wholesale Warehouses	Catering Establishments	Fuel Storage Depots
Machinery	-	3	-	-	-
Transport	-	-	1	-	-
Hand Tools	-	4	-	-	-
Falls of persons	-	3	2	1	-
Stepping on or striking against object or person	-	-	-	1	-
Handling goods	-	5	2	-	-
Struck by falling object	-	-	1	-	-
Not otherwise specified	1	1	-	-	-
TOTALS	1	16	6	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. Hses.	Bus. Pres.	
<u>NUMBER OF PROPERTIES INSPECTED:</u>				
(1) Primary Inspections:				
(a) as a result of notification	13	266	87	366
(b) otherwise	-	341	-	341
(a) Re-inspections:				
(a) as a result of notification	1	15	2	18
(b) otherwise	-	11	-	11
Total properties inspected ...	14	633	89	736
<u>NUMBER OF PROPERTIES FOUND TO BE INFESTED BY RATS</u>				
(1) On Primary Inspections:				
(a) Major	-	-	-	-
(b) Minor	10	427	42	479
(2) Re-infestations:				
(a) Major	-	-	-	-
(b) Minor	1	19	2	22
<u>NUMBER OF PROPERTIES FOUND TO BE INFESTED BY MICE</u>				
(1) On Primary Inspections	3	67	45	115
(2) On re-inspections	-	6	-	6
Total infestations found ...	14	519	89	622
<u>NUMBER OF INFESTED PROPERTIES TREATED BY LOCAL AUTHORITY</u>				
(1) Primary treatments:				
(a) for rats	11	439	40	490
(b) for mice	3	68	50	121
(2) Treatment for re-infestation				
(a) for rats	1	12	1	14
(b) for mice	-	4	1	5
Total treatments	15	523	92	630

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, 628 rats and 366 mice were picked up, whilst the estimated kill was 2,556 rats and 861 mice.

During the year the rodent operators paid 5,904 visits in connection with the inspection and treatment of premises.

Two maintenance treatments of the sewers were also carried out. 902 manholes were baited and 626 takes of poison bait were recorded, showing an estimated kill of 1,550 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 671 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	...	...	...	225
For the preparation and manufacture of sausages or pressed, potted or preserved meat, etc...	...	...	...	20
Dairies	...	...	...	1

FOOD HYGIENE REGULATIONS, 1960

Type of premises	Number	Premises complying with Reg- ulation 16	Premises complying with Reg- ulation 19
Fried Fish Shops	38	36	37
Wet Fish Shops	5	4	5
Bakehouses	10	10	10
Butchers	50	49	49
Restaurants and Cafes	30	30	30
School Canteens	11	11	11
Factory Canteens	19	18	19
Licensed Premises	119	119	119
Grocery and Provisions	145	137	143
Cakes and Confectionery	15	14	15
Sweets	31	31	31
Green Grocery	29	29	29
TOTALS	502	488	498

FOOD INSPECTION

There are no slaughterhouses in the Borough.

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

TINNED FOODS

					lbs	
Meat	...	...	...	...	1,092	
Fruit	...	...	...	...	1,931	
Vegetables	...	...	...	...	1,166	
Fish	...	...	...	...	28	
Miscellaneous	...	...	...	...	280	4,497 lbs.

OTHER FOODS

Meat	...	...	...	...	1,194	
Fish	...	...	...	...	117	
Fruit	...	...	...	...	209	
Frozen foods	...	...	...	...	765	
Miscellaneous	...	...	...	...	26	2,311 lbs.
					TOTAL	6,808 lbs.

ICE CREAM

Ice cream was manufactured at three premises in the Borough in 1965, while 225 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.

42 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 I	Grade 2	Grade 3	Grade 4	
Samples taken at manufacturing premises ..	11	4	1	2	18
Samples taken from retailers in the Borough	20	3	1	-	24
TOTALS	31	7	2	2	42

MILK

Distributors of Milk

Registered distributors of milk	113
Registered dairies	1

Designated Milk

Dealer's pre-packed licences	113
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Pasteurised Milk

Establishments at which milk is pasteurised -

Holder Process	-
H.T.S.T. Process	...	...	...	...	...	...	1

MILK SAMPLING

During the year 164 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
2	Untreated	1	1	-	-	-	-
130	Pasteurised	121	7	129	1	-	-
32	Sterilised	-	-	-	-	32	-
164	TOTALS	122	8	129	1	32	-

SLAUGHTER OF ANIMALS ACT 1958

The number of slaughtermen's licences issued in 1965 was 10.

KNACKER'S YARD

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

FOOD AND DRUGS ACT 1955

During the year 12 formal and 116 informal samples were submitted to the Public Analyst for analysis.

Nature of Sample	No. of Samples		Number of samples adulterated or not genuine
	Informal	Formal	
Milk	3	-	2
Meat and Meat Products	41	-	4
Fish and Fish Products	6	-	-
General Groceries	43	-	7
Preserves	3	-	-
Flour Confectionery	4	-	2
Sugar Confectionery	4	-	-
Cordials	6	-	2
Medicines etc.	3	-	-
Beer and Spirits	3	12	-
	116	12	17
	128		

In addition to the above samples which were submitted to the Public Analyst, nineteen 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
2868	Bottle of Cordial	Contained safety pin	Manufacturer cautioned
2869	Chocolates	Contained maggot	Manufacturer cautioned
2884	Loaf of bread	Contained carbonised dough	Manufacturer cautioned
2885	Loaf of bread	Contained piece of wire	Manufacturer prosecuted Fined £10.
2895	Steak and Kidney pie	Deficient in meat content	Manufacturer cautioned
2898	Bottle of milk	Contained metal foil cap	Vendor prosecuted - fined £5.
2899	Meat and Potato Pie	Unsound	Manufacturer cautioned
2900	Butter	Contained foreign object	Manufacturer cautioned
2901	Biscuits	Contained piece of metal	Manufacturer cautioned
2914	Soup	Contained piece of metal	Manufacturer cautioned
2915	Bottle of Milk	Contained blue bottle	Vendor cautioned
2933	Crispbread	Contained insects	Vendor cautioned
2934	Loaf of bread	Contained piece of chewing gum	Manufacturer cautioned
2935	Date and walnut loaf	Mouldy	Manufacturer cautioned
2936	Loaf of bread	Contained beetle	Manufacturer cautioned
2937	Bottle of milk	Contained milk residue	Vendor cautioned
2938	Bottle of milk	Contained milk residue	Vendor cautioned

Sample Number	Article	Adulteration or other irregularity	Action Taken
2939	Cream Horn	Contained iron scale	Manufacturer cautioned
2940	Grapefruit Cordial	Discoloured	Vendor cautioned
2941	Loaf of bread	Contained streaks of wheat bran	-
2942	Apple tart	Mouldy	Manufacturer cautioned
2943	Tin of corned beef	Unsound	-
2944	Baked custard	Contained carbonised particles	Manufacturer cautioned
2945	Bread cob	Contained moth larva	Manufacturer cautioned
2946	Tin of corned beef	Unsound	-
2947	Loaf of bread	Mouldy	Manufacturer cautioned
2948	Cereal	Infested with spider beetle	Vendor cautioned
2949	Tin of Luncheon Meat	Contained piece of metal	Notified to Ministry of Agriculture, Fisheries and Food
2950	Sausage	Coloured with pigment	Manufacturer cautioned
2951	Bottle of milk	Dirty	Vendor prosecuted and fined £10.
2958	Yoghurt	Incorrectly labelled	Manufacturer to relabel cartons
2959	Barbecue beef	Deficient in meat content	Manufacture discontinued
2969	Bottle of milk	Bottle dirty	Vendor prosecuted and fined £4.
2970	Bottle of milk	Bottle dirty	Vendor prosecuted and fined £5.
2987	Loaf of bread	Contained mould	Manufacturer cautioned

ATMOSPHERIC POLLUTION

The implementation of the provisions of the Clean Air Act, 1956 once again occupied a proportion of the time of the public health inspectorate and 2,140 inspections were made under the Act.

1 application was submitted to the local authority for 'prior approval', 5 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.

On the 29th May, 1964, the Council made a second order, known as the Borough of Crewe No. 2 (Wistaston Green and The Valley) Smoke Control Order, 1964. This Order, which covers 208 acres and 1,028 properties in an area adjacent to and to the east of the first area, was confirmed on the 5th March, 1965, to become operative on the 1st July, 1966.

During 1965 a third area, comprising 223 acres and 1,670 properties, was surveyed with the object of a further Order being made to come into operation in 1967.

The department has, since 1949, in co-operation with the Department of Scientific and Industrial Research, 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 have been installed at particular sites in the district.

The sites selected cover five types of district in accordance with the recommendations of the Department of Scientific and Industrial Research as follows:

	<u>Crewe Site</u>
(a) Residential area with a high population density	Stalbridge Road Clinic
(b) Residential area with a low population density	College Annexe, Railton Avenue
(c) Industrial area	Railway Works
(d) Commercial area	British Railway Laboratory, Town Hall
(e) Smoke Control area	Sewage Works

The results obtained are collated by the Warren Spring Laboratory of the Department of Scientific and Industrial Research.

VOLUMETRIC CONCENTRATION OF SMOKE
IN THE ATMOSPHERE - YEAR 1965

Average daily concentration expressed as microgrammes
per cubic metre

MONTH	A Residential Area, high population density			B Residential Area, low population density			C Industrial Area			D Commercial Area			E Smoke Control Area		
	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965
Jan.	563	434	375	406	297	201	407	330	203	507	280	284	258	158	114
Feb.	476	376	434	327	257	247	312	302	364	333	226	351	201	138	141
March	289	340	323	165	216	181	153	291	272	216	96	243	63	128	99
April	284	178	*	141	97	*	*	116	*	182	76	*	69	31	*
May	165	109	125	77	63	58	102	78	94	111	80	110	26	*	31
June	117	111	80	65	65	34	39	95	68	74	106	70	32	27	24
July	121	76	78	*	44	28	86	*	72	76	77	64	27	23	19
August	*	84	102	*	40	42	123	79	83	78	88	82	*	24	29
Sept.	217	130	157	144	64	88	165	86	107	177	115	129	62	41	43
Oct.	230	424	260	144	249	171	146	262	203	131	360	223	50	143	108
Nov.	309	468	283	227	244	199	239	302	233	163	326	257	*	143	112
Dec.	*	554	*	*	360	*	*	*	*	225	489	183	*	194	*

* No results obtained

VOLUMETRIC CONCENTRATION OF SULPHUR
DIOXIDE IN THE ATMOSPHERE - YEAR 1965

Average daily concentration expressed as microgrammes per cubic metre

MONTH	A Residential Area, high population density			B Residential Area, low population density			C Industrial Area			D Commercial Area			E Smoke Control Area		
	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965
Jan.	634	366	268	417	265	217	564	327	277	603	350	300	317	140	142
Feb.	503	331	353	366	259	254	431	335	384	475	304	402	261	158	180
March	228	326	266	144	204	223	190	337	268	256	249	284	92	169	158
April	138	153	*	*	119	*	205	219	*	205	149	*	93	59	*
May	141	89	123	86	77	92	136	153	182	130	105	135	54	*	68
June	121	101	107	88	83	68	133	161	207	113	128	106	67	64	70
July	113	96	101	*	68	61	104	*	131	115	102	96	62	54	59
August	*	102	99	*	64	59	142	142	146	117	105	101	*	47	60
Sept.	172	140	113	120	82	98	171	125	120	169	121	127	66	73	71
October	165	286	168	138	159	176	153	208	227	165	296	231	58	110	131
Nov.	252	304	164	203	217	183	219	224	270	254	291	257	*	146	127
Dec.	*	415	*	*	324	*	*	*	*	432	426	213	*	199	*

*No results obtained

ATMOSPHERIC POLLUTION - SMOKE DEPOSITED MATTER 1965
Monthly Deposits in Tons per Square Mile

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965
Jan.	11.21	13.65	12.27	12.72	22.29	13.21	7.96	6.48	8.27	17.75	13.23	18.75	8.93	10.23	10.19
Feb.	11.68	12.62	11.80	13.26	15.28	13.89	4.62	6.75	6.56	11.40	10.24	11.55	4.42	8.41	8.23
March	12.34	13.97	14.18	18.07	20.45	15.89	6.89	8.81	8.70	15.89	12.75	11.99	8.03	9.02	11.20
April	12.29	11.74	13.38	15.96	15.55	15.78	8.48	6.54	9.03	9.38	12.21	11.97	7.97	9.66	7.77
May	13.12	13.33	14.57	17.73	19.19	13.93	7.40	9.56	6.13	14.70	16.38	11.78	9.13	13.89	9.97
June	11.95	9.84	12.57	15.04	13.02	12.79	7.54	9.78	10.86	*	12.32	11.01	12.74	11.11	11.88
July	10.92	12.22	15.75	12.36	13.22	17.44	5.32	13.57	13.52	15.67	13.11	12.37	9.91	10.59	12.19
August	10.04	13.30	13.78	13.06	14.16	13.31	10.30	8.36	10.26	11.24	24.97	9.32	8.37	12.69	12.25
Sept.	10.75	10.32	15.40	15.65	15.43	14.94	6.32	7.56	7.61	14.59	10.74	27.13	12.18	11.69	9.37
October	12.10	15.34	9.16	15.21	16.77	10.25	5.77	8.88	5.49	9.86	11.19	10.75	11.24	12.84	8.46
Nov.	13.68	11.38	14.94	16.39	12.74	19.15	6.22	6.24	12.99	12.84	10.04	29.26	9.69	12.01	10.60
Dec.	8.48	11.25	10.58	15.76	15.82	15.85	4.30	8.08	5.89	10.00	15.04	11.14	7.04	11.89	9.76
TOTAL	138.56	148.96	158.38	181.21	193.92	176.43	81.12	100.61	105.31	143.32	162.22	177.02	109.65	134.03	121.87
MONTHLY AVERAGE	11.55	12.41	13.20	15.10	16.16	14.70	6.76	8.38	8.78	13.03	13.52	14.75	9.14	11.17	10.16

* No result obtained owing to damage to equipment

ATMOSPHERIC POLLUTION

Sulphur Dioxide by the Lead Peroxide Method
Results expressed as mg./SO₂/day/100 sq.c.m. of Batch
"A" Lead Peroxide exposed under a louvered cover

MONTH	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965
Jan.	3.72	3.28	3.01	5.11	4.17	3.08	2.54	1.45	1.04	2.36	1.94	1.69	2.09	1.69	1.94
Feb.	3.09	2.98	2.49	4.44	3.04	3.62	1.59	1.87	1.24	2.38	1.44	1.47	2.74	2.15	1.82
March	2.68	3.83	2.91	3.37	2.95	3.63	1.13	2.31	1.81	1.49	1.76	2.04	1.45	1.75	1.97
April	2.11	2.18	3.12	2.79	2.46	3.89	0.98	0.81	1.67	1.31	1.04	2.52	1.02	1.14	2.23
May	1.46	1.40	1.48	1.96	1.93	1.68	0.43	0.47	0.52	0.75	0.57	0.75	1.03	0.79	1.13
June	0.91	1.15	0.87	1.13	1.33	1.32	0.49	0.48	0.37	0.43	0.68	0.63	0.70	0.42	0.69
July	1.04	0.78	0.86	1.19	0.95	1.54	0.37	0.36	0.68	0.46	0.41	0.76	0.75	0.59	0.63
August	0.94	0.84	0.96	1.22	1.04	1.85	0.35	0.32	0.44	0.30	0.41	0.48	0.78	0.61	0.39
Sept.	1.26	1.39	1.51	1.22	1.54	1.68	0.45	0.57	0.48	0.74	0.65	0.79	1.01	0.92	1.02
October	2.20	1.69	1.16	1.94	2.14	2.20	0.76	1.02	1.08	0.95	1.17	1.14	1.30	1.31	1.13
Nov.	2.84	1.44	1.79	3.33	2.66	2.01	1.03	0.86	1.13	1.31	1.09	1.43	1.51	2.08	1.42
Dec.	3.96	3.33	1.72	4.00	4.19	1.74	2.00	1.51	0.92	2.04	1.86	1.04	1.91	2.10	1.06
TOTAL	26.21	24.29	21.88	31.70	28.40	28.24	12.12	12.03	11.38	14.52	13.02	14.74	16.29	15.55	15.43
MONTHLY AVERAGE	2.18	2.02	1.82	2.64	2.36	2.35	1.01	1.00	0.95	1.23	1.08	1.23	1.36	1.29	1.29

ATMOSPHERIC POLLUTION

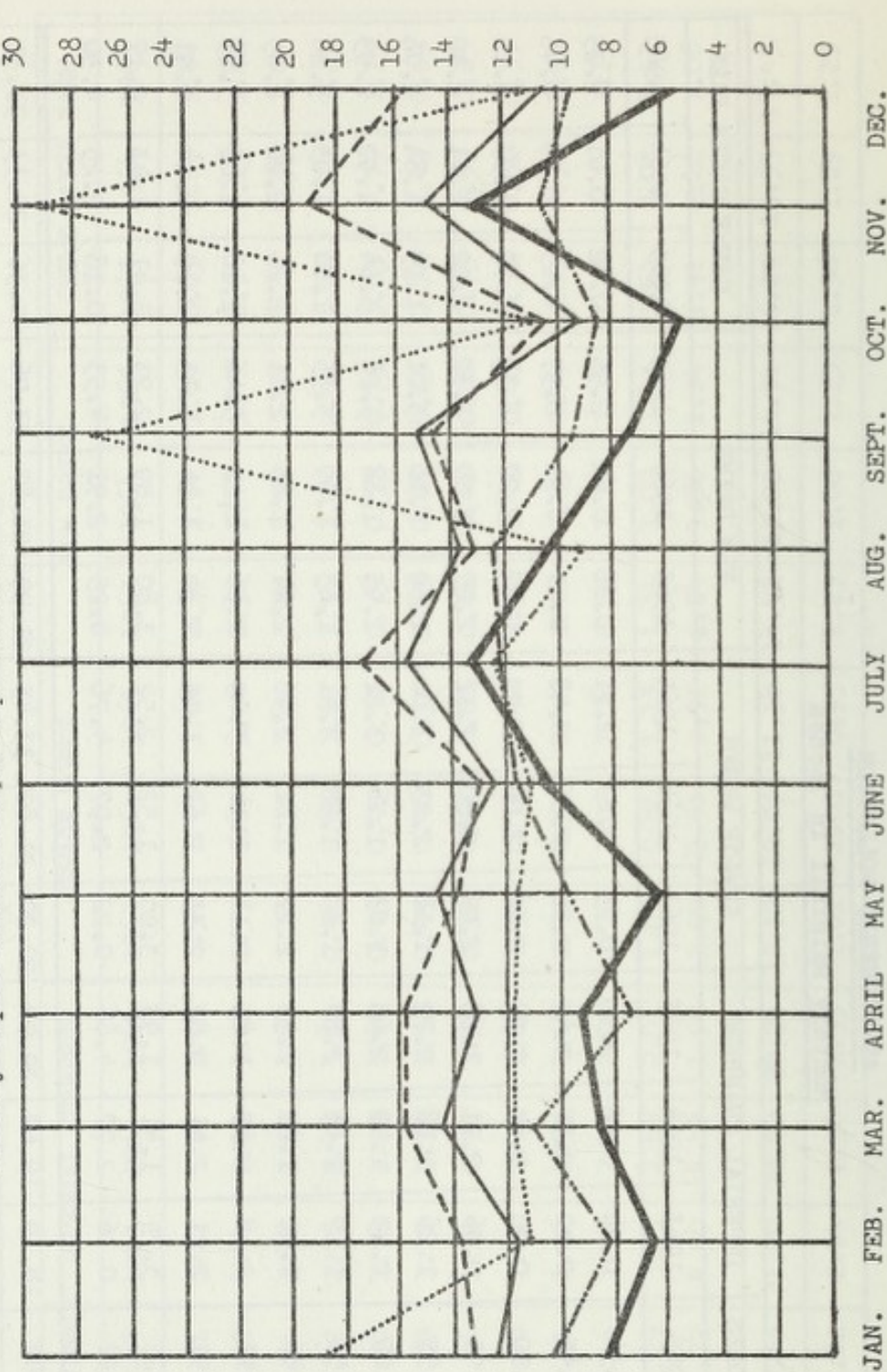
Monthly Rainfall in Inches

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965	1963	1964	1965
Jan.	0.77	0.57.	2.54	0.74	0.66	2.50	0.75	0.63	2.71	0.86	0.62	2.95	0.62	0.61	2.25
Feb.	0.11	0.85	0.45	0.10	0.77	0.42	0.10	0.86	0.48	0.21	0.91	0.57	0.13	0.79	0.46
March	0.73	2.00	2.10	0.70	1.83	1.92	0.72	2.06	2.23	0.83	2.27	2.32	0.79	1.93	2.15
April	1.93	2.29	1.91	0.96	2.21	1.88	2.06	2.30	2.12	2.27	2.59	2.32	2.02	2.11	2.30
May	1.19	1.79	3.35	1.26	1.68	2.72	1.18	2.13	3.00	1.69	2.10	3.01	1.19	1.84	2.76
June	2.94	1.57	3.05	2.93	1.49	2.65	3.03	1.78	3.22	2.95	1.88	3.28	3.64	1.92	2.93
July	1.74	1.82	3.58	1.19	1.88	2.87	1.80	1.98	3.41	1.63	1.99	3.35	1.80	1.93	3.28
August	2.19	1.55	2.86	2.02	1.62	2.53	2.27	1.81	2.46	2.44	1.85	2.11	2.21	2.20	2.85
Sept.	2.15	0.87	5.13	2.18	0.89	4.85	2.14	1.14	5.49	2.56	1.22	5.46	2.18	1.08	5.15
October	2.21	2.29	0.91	2.21	2.41	0.82	2.33	2.62	1.05	2.50	1.94	1.13	2.19	2.24	0.91
Nov.	3.52	1.44	2.27	3.74	1.41	1.95	3.60	1.52	2.52	3.80	1.59	2.73	3.41	1.43	2.17
Dec.	0.19	2.79	3.92	0.16	2.77	4.86	0.22	2.97	4.76	0.25	2.91	4.53	0.18	2.25	4.30
TOTAL	19.67	19.83	32.07	18.19	19.62	29.97	20.20.	21.80	33.45	21.99	21.87	33.76	20.36	20.33	31.31
MONTHLY AVERAGE	1.64	1.65	2.67	1.52	1.66	2.50	1.69	1.82	2.79	1.83	1.82	2.80	1.70	1.69	2.61

ATMOSPHERIC POLLUTION - SMOKE DEPOSITED MATTER 1965.

GRAPH 1.

Monthly Deposits in Tons per Square Mile.



Ashbank Stores.

Imperial Chambers.

Sewage Works.

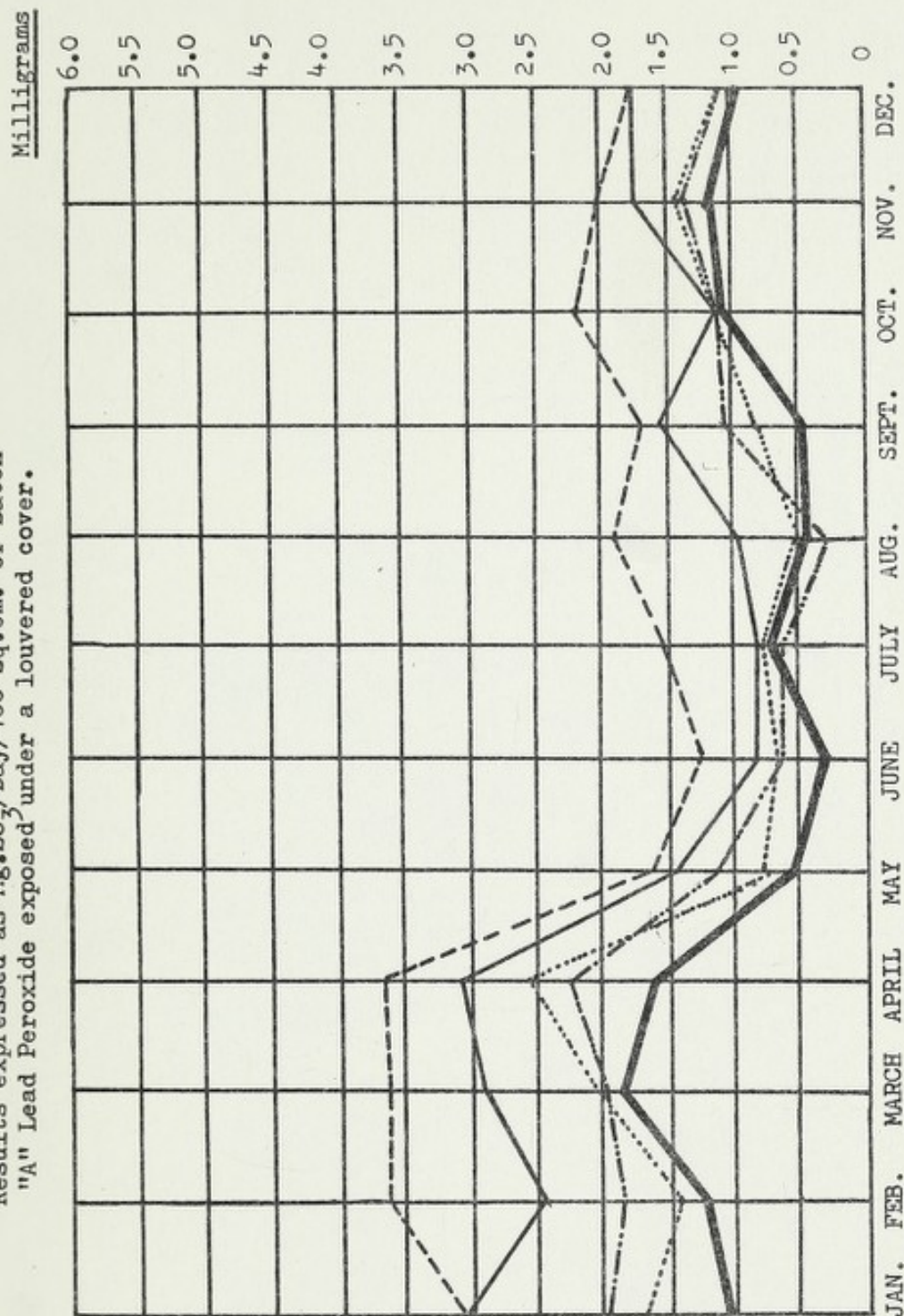
Elm Drive.

Crewe Gates Farm.

GRAPH 11.

ATMOSPHERIC POLLUTION - SULPHUR DIOXIDE DEPOSITS 1964.

Results expressed as $\text{Mg. SO}_2/\text{Day}/100 \text{ sq. cm. of Batch}$
 "A" Lead Peroxide exposed under a louvered cover.



Ashbank Stores.

Imperial Chambers.

Sewage Works.

Elm Drive

Crewe Gates Farm.

